Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A01	Common Supported Gable	3	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:33 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-9bZs0To40X4_?p8d?ayiqSnhI2hvC4pG1XoPtFzSBG0

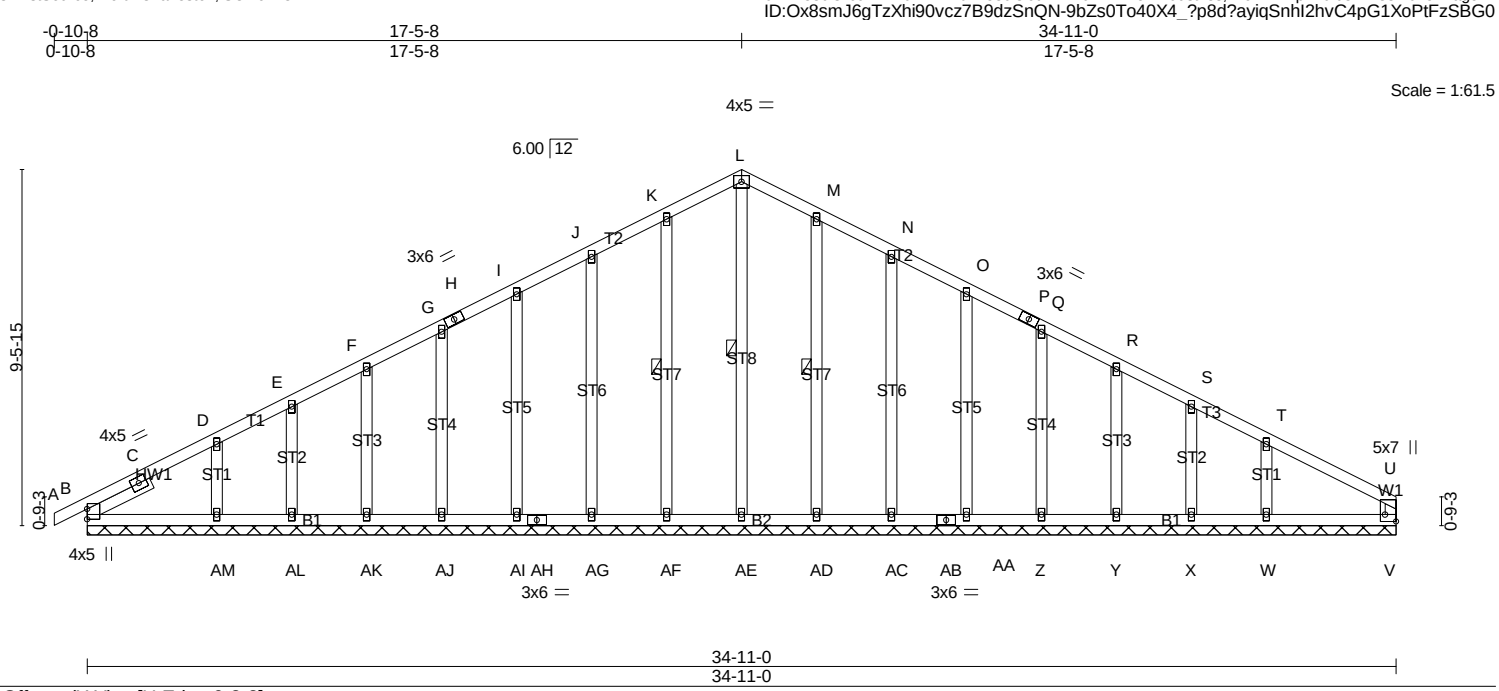


Plate Offsets (X,Y)-- [U:Edge,0-3-8]

LOADING (psf)		SPACING-	1-9-8	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.15	Vert(LL)	-0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.09	Vert(TL)	0.00	A	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.01	V	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 231 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER
Left 2x4 SP No.2 1-11-0

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt
L-AE, K-AF, M-AD

REACTIONS. All bearings 34-11-0.
(lb) - Max Horz
B= 188(LC 6)
Max Uplift
All uplift 100 lb or less at joint(s) V, B, AF, AJ, AL, AD, Z, X except AG=-107(LC 7), AI=-101(LC 7), AK=-109(LC 7), AM=-204(LC 7), AC=-108(LC 8), AA=-100(LC 8), Y=-111(LC 8), W=-206(LC 8)
Max Grav
All reactions 250 lb or less at joint(s) V, B, AF, AG, AI, AJ, AK, AL, AM, AD, AC, AA, Z, Y, X, W except AE=300(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
G-H=-66/282, H-I=-42/290, I-J=-66/346, J-K=-66/421, K-L=-67/485, L-M=-67/485, M-N=-66/421, N-O=-66/346, O-P=-42/276, P-Q=-66/267
WEBS
L-AE=-309/0
WEBS
L-AE=-309/0

NOTES- (12)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) V, B, AF, AJ, AL, AD, Z, X except (jt=lb) AG=107, AI=101, AK=109, AM=204, AC=108, AA=100, Y=111, W=206.
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) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

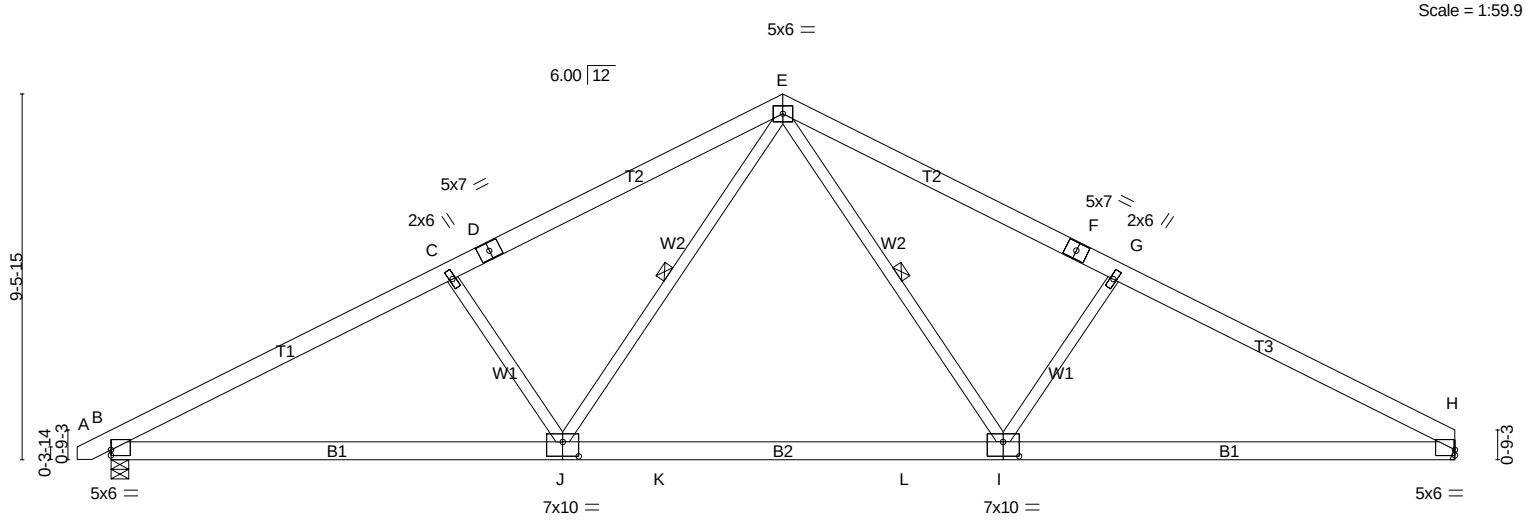
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A02	COMMON	17	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:34 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-do7EDppinrCrczjqZHTxNfJmTSrAxTyQGBXyPhzSBG?

-0-10-8	8-10-8	17-5-8	26-0-8	34-11-0
0-10-8	8-10-8	8-7-0	8-7-0	8-10-8

Scale = 1:59.9



11-8-13	23-2-3	34-11-0
11-8-13	11-5-5	11-8-13

Plate Offsets (X,Y)-- [B:0-0-0,0-1-12], [F:0-0-0,0-0-0], [H:Edge,0-1-12], [I:0-5-0,0-4-8], [J:0-5-0,0-4-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plates Increase	1.15	TC	0.57	Vert(LL)	-0.32	I-J	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.80	Vert(TL)	-0.48	I-J	>862	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 222 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 or 3-9-14 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-11-8 oc bracing.
WEBS
1 Row at midpt E-I, E-J

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

REACTIONS. (lb/size)
B = 1569/0-5-8 (min. 0-2-7)
H = 1512/Mechanical
Max Horz
B = 185(LC 6)
Max Uplift
B = -664(LC 7)
H = -592(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-2665/1427, C-D=-2382/1376, D-E=-2253/1418, E-F=-2272/1429, F-G=-2402/1387, G-H=-2666/1443
BOT CHORD
B-J=-1084/2249, J-K=-496/1529, K-L=-496/1529, I-L=-496/1529, H-I=-1106/2283
WEBS
E-I=-483/961, G-I=-485/649, E-J=-467/931, C-J=-458/625

NOTES- (9)

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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for 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, with BCDL = 10.0psf.
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) B=664, H=592.
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.
9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

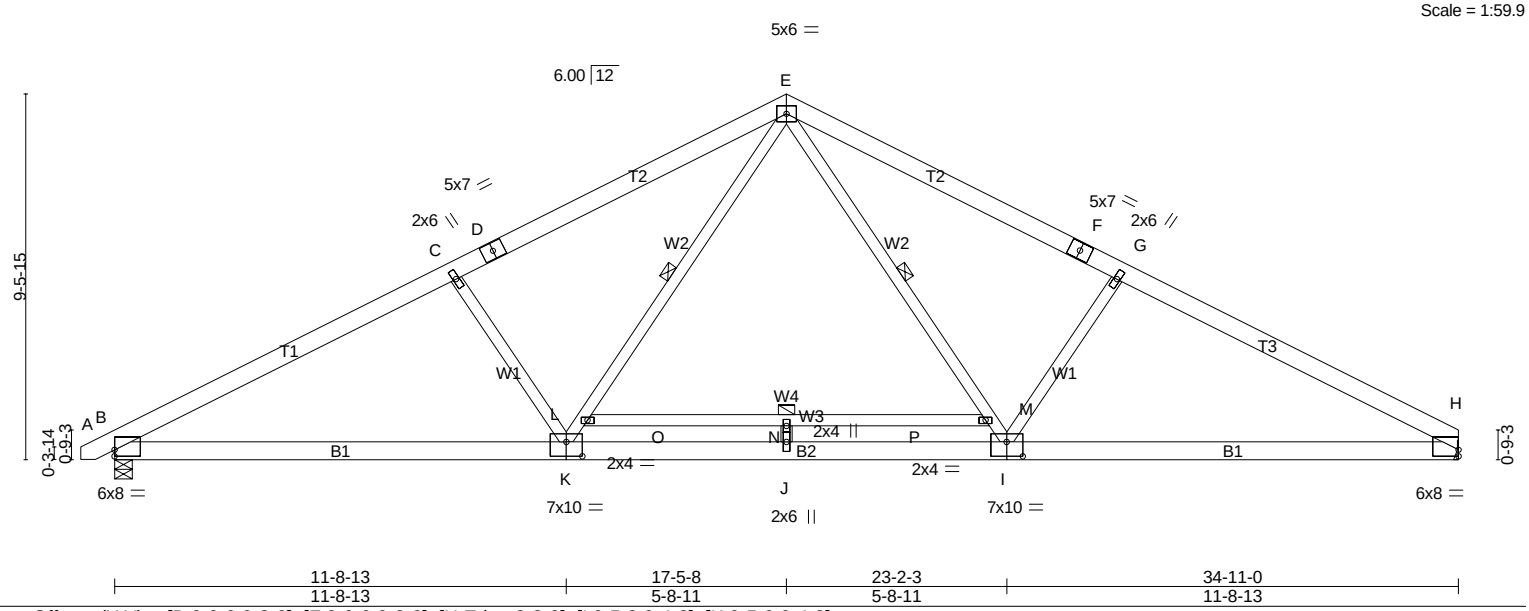
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A03	COMMON	11	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:34 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-do7EDppinrCrczjqZHTxNfJkySo5xQiQGBXyPhzSBG?

-0-10-8 | 8-10-8 | 17-5-8 | 26-0-8 | 34-11-0
0-10-8 | 8-10-8 | 8-7-0 | 8-7-0 | 8-10-8

Scale = 1:59.9



11-8-13 | 17-5-8 | 23-2-3 | 34-11-0
11-8-13 | 5-8-11 | 5-8-11 | 11-8-13

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

LOADING (psf)		SPACING-	2-0-12	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.67	Vert(LL)	-0.30	J	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.99	Vert(TL)	-0.46	J	>896	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 238 lb	FT = 20%

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

BRACING-
TOP CHORD
2-0-0 oc purlins (3-8-8 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD
Rigid ceiling directly applied or 6-10-2 oc bracing.
WEBS
1 Row at midpt E-I, E-K, L-M

REACTIONS. (lb/size)
B = 1620/0-5-8 (min. 0-2-9)
H = 1561/Mechanical
Max Horz
B = 191(LC 6)
Max Uplift
B = -684(LC 7)
H = -611(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-2720/1472, C-D=-2452/1420,
D-E=-2319/1463, E-F=-2339/1474,
F-G=-2473/1431, G-H=-2746/1488
BOT CHORD
B-K=-1118/2316, J-K=-569/1699,
I-J=-569/1699, H-I=-1141/2351
WEBS
E-M=-501/993, I-M=-472/899, G-I=-501/669,
K-L=-455/869, E-L=-484/962,
C-K=-473/644

NOTES- (10)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for 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) B=684, H=611.
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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced) + Uninhab. Attic
Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-E=-62, E-H=-62, B-H=-21, O-P=-40

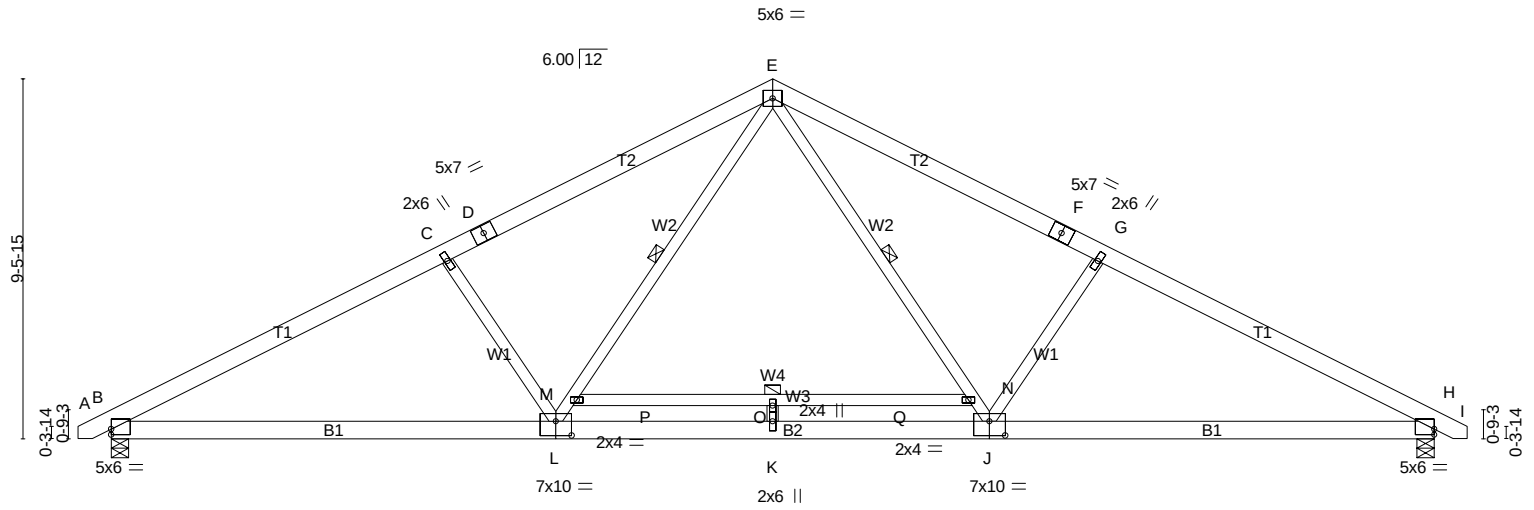
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A04	COMMON	16	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:35 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-6_hdR9pKY9KiE7I06?_AvtswLr9?guXZVrHWy8zSBG_

-0-10-8 | 8-10-8 | 17-5-8 | 26-0-8 | 34-11-0 | 35-9-8
0-10-8 | 8-10-8 | 8-7-0 | 8-7-0 | 8-10-8 | 0-10-8

Scale = 1:60.8



11-8-13 | 17-5-8 | 23-2-3 | 34-11-0
11-8-13 | 5-8-11 | 5-8-11 | 11-8-13

Plate Offsets (X,Y)-- [B:0-0-0,0-1-12], [F:0-0-0,0-0-0], [H:Edge,0-1-12], [J:0-5-0,0-4-8], [L:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.63	Vert(LL)	-0.29	K	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.95	Vert(TL)	-0.45	K	>913	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 240 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
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 or 4-0-3 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 7-0-3 oc bracing.
WEBS
1 Row at midpt E-J, 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 = 1567/0-5-8 (min. 0-2-7)
H = 1567/0-5-8 (min. 0-2-7)
Max Horz
B = -182(LC 5)
Max Uplift
B = -661(LC 7)
H = -661(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-2630/1416, C-D=-2371/1365,
D-E=-2242/1407, E-F=-2242/1407,
F-G=-2371/1365, G-H=-2630/1416
BOT CHORD
B-L=-1068/2240, K-L=-537/1638,
J-K=-537/1638, H-J=-1071/2240
WEBS
E-N=-468/939, J-N=-440/847, G-J=-459/624,
L-M=-440/847, E-M=-468/939,
C-L=-459/624

NOTES- (9)

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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=661, H=661.
6) 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.
7) Load case(s) 1, 2, 11, 12 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-E=-60, E-I=-60, B-H=-20, P-Q=-40
2) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: A-E=-20, E-I=-20, B-H=-40, P-Q=-40
11) 1st Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-E=-60, E-I=-20, B-H=-20, P-Q=-40
12) 2nd Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-E=-20, E-I=-60, B-H=-20, P-Q=-40

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A05	ROOF SPECIAL	24	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:35 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-6_hdR9pKY9KiE7I06?_AvtsqjrBpgo4ZVrHWy8zSBG_

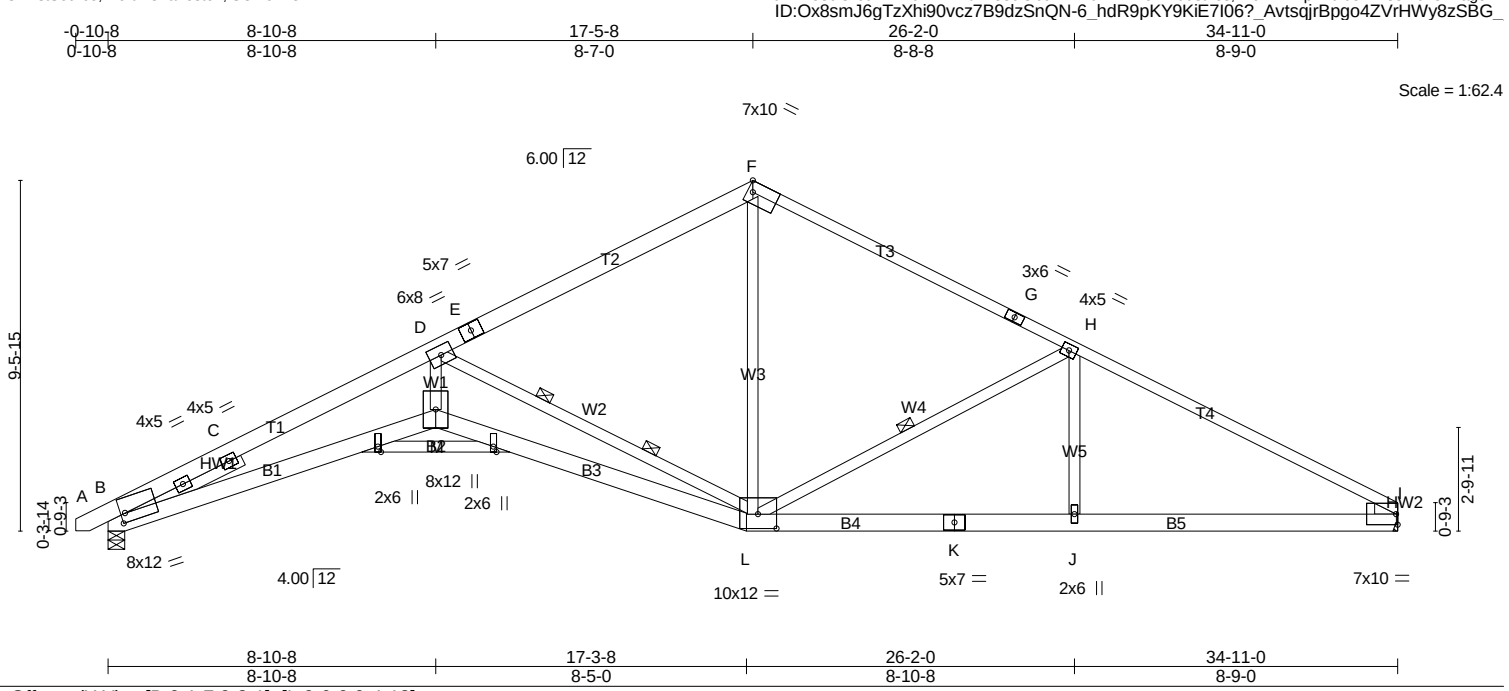


Plate Offsets (X,Y)-- [B:0-1-7,0-3-1], [L:0-6-0,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.99	Vert(LL)	0.57	L-M	>734	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.77	Vert(TL)	-0.99	L-M	>419	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(TL)	0.54	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)							Weight: 223 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T3: 2x4 SP No.1, T4: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
B1,B3: 2x6 SP No.1, B2: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2, W2: 2x4 SP SS
WEDGE
Right: 2x4 SP No.3
SLIDER
Left 2x4 SP No.2 3-6-0

BRACING-
TOP CHORD
Structural wood sheathing directly applied.
BOT CHORD
Rigid ceiling directly applied or 4-9-14 oc bracing.
WEBS
1 Row at midpt H-L
2 Rows at 1/3 pts D-L

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

REACTIONS. (lb/size)
B = 1443/0-5-8 (min. 0-2-4)
I = 1387/Mechanical
Max Horz
B = 211(LC 7)
Max Uplift
B = -663(LC 7)
I = -593(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-2698/1468, C-D=-5217/2998, D-E=-1613/1075, E-F=-1540/1119, F-G=-1515/1119, G-H=-1638/1077, H-I=-2338/1392
BOT CHORD
B-M=-2602/4854, L-M=-2607/4819, K-L=-1066/1996, J-K=-1066/1996, I-J=-1066/1996
WEBS
D-M=-1506/3079, D-L=-3659/2234, F-L=-492/831, H-L=-762/636, H-J=0/332

NOTES- (10)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for 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) Bearing at joint(s) B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=663, I=593.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A06	GABLE	3	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:36 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-aAF?eVqzJSSZsHtCgiVPS4P7IFerPRCikV03TazSBFz

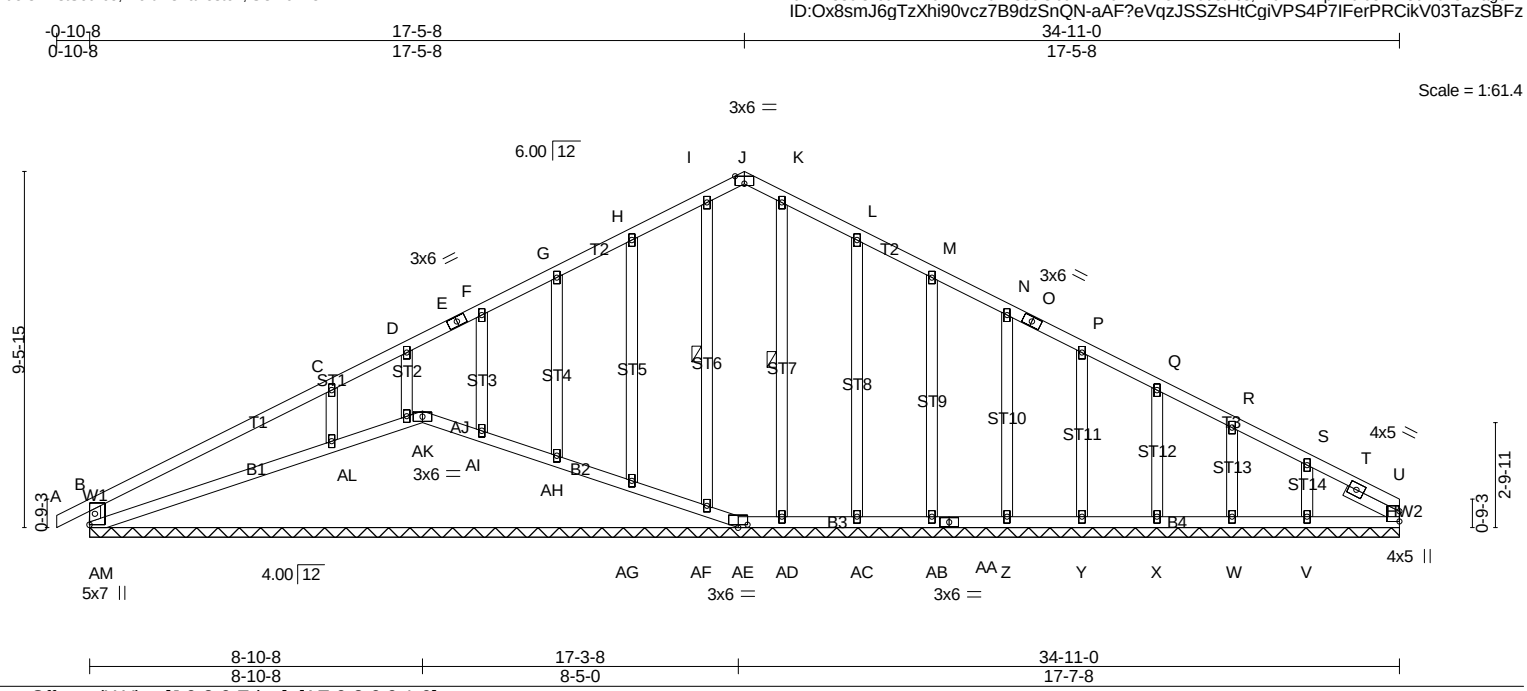


Plate Offsets (X,Y)-- [J:0-3-0,Edge], [AE:0-3-0,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.48	Vert(LL)	-0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.33	Vert(TL)	0.03	A	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.01	U	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 214 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
SLIDER
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt I-AF, K-AD

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

REACTIONS. All bearings 34-11-0.
(lb) - Max Horz
AM= 212(LC 7)
Max Uplift
All uplift 100 lb or less at joint(s) AJ, AE, AH, W except AM=-184(LC 8), U=-103(LC 7), AG=-178(LC 7), AI=-156(LC 7), AK=-174(LC 2), AL=-408(LC 7), AC=-166(LC 8), AB=-105(LC 8), Z=-114(LC 8), Y=-112(LC 8), X=-117(LC 8), V=-183(LC 8)
Max Grav
All reactions 250 lb or less at joint(s) AJ, AE, U, AF, AG, AH, AI, AK, AD, AC, AB, Z, Y, X, W, V except AM=312(LC 1), AL=518(LC 11)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
C-D=-228/357, D-E=-164/346, E-F=-134/354, F-G=-184/455, G-H=-180/524, H-I=-188/638, I-J=-150/546, J-K=-150/547,
TOP CHORD
C-D=-228/357, D-E=-164/346, E-F=-134/354, F-G=-184/455, G-H=-180/524, H-I=-188/638, I-J=-150/546, J-K=-150/547, K-L=-188/637, L-M=-180/525, M-N=-181/451, N-O=-142/370, O-P=-181/365, P-Q=-181/305, Q-R=-181/255, B-AM=-309/313
WEBS
C-AL=-366/493

NOTES- (13)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) AJ, AE, AH, W except (jt=lb) AM=184, U=103, AG=178, AI=156, AK=174, AL=408, AC=166, AB=105, Z=114, Y=112, X=117, V=183.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) AJ, AF, AG, AH, AI, AK, AL.
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) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

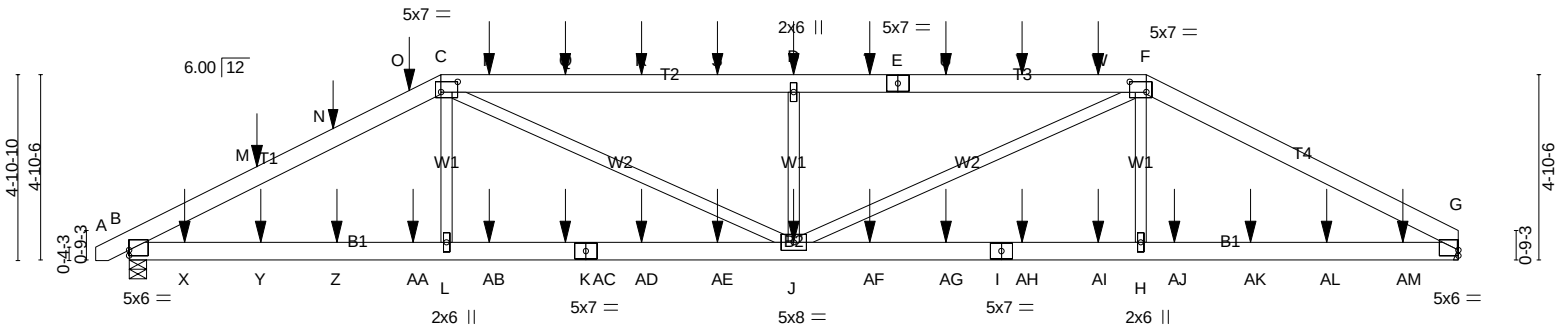
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A07	HIP GIRDER	1	2	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:38 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-WZMl3AsDr4iG5a1bo7XtXVUOF3CWtEo?BpVAYSzSBFx

-0-10-8 8-2-5 17-5-8 26-8-11 34-11-0
0-10-8 8-2-5 9-3-3 9-3-3 8-2-5

Scale = 1:60.5



8-2-5 17-5-8 26-8-11 34-11-0
8-2-5 9-3-3 9-3-3 8-2-5

Plate Offsets (X,Y)-- [B:Edge,0-1-12], [C:0-5-4,0-3-4], [F:0-5-4,0-3-4], [G:0-0-0,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plates Increase	1.15	TC	0.77	Vert(LL)	0.27	J-L	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.83	Vert(TL)	-0.31	J-L	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(TL)	0.09	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 434 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
2-0-0 oc purlins (6-0-0 max.): C-F.
BOT CHORD
Rigid ceiling directly applied or 8-3-4 oc bracing.

REACTIONS. (lb/size)
G = 2761/Mechanical
B = 2678/0-5-8 (min. 0-2-2)
Max Horz
B = 93(LC 13)
Max Uplift
G = -2217(LC 6)
B = -2040(LC 5)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-M=-4475/3410, M-N=-4382/3368, N-O=-4324/3373, C-O=-4195/3271, C-P=-5422/4461, P-Q=-5421/4461, Q-R=-5421/4460, R-S=-5421/4460, D-S=-5420/4460, D-T=-5421/4461, E-T=-5421/4461, E-U=-5421/4460, U-V=-5421/4460, V-W=-5421/4461, F-W=-5422/4461, F-G=-4657/3629
BOT CHORD
B-X=-2976/3840, X-Y=-2976/3840, Y-Z=-2976/3840, Z-AA=-2976/3840, L-AA=-2976/3840, L-AB=-2976/3858, AB-AC=-2976/3858, K-AC=-2976/3858, K-AD=-2976/3858, AD-AE=-2976/3858, J-AE=-2976/3858, J-AF=-3116/4065, AF-AG=-3116/4065, I-AG=-3116/4065, I-AH=-3116/4065, AH-AI=-3116/4065, H-AI=-3116/4065, H-AJ=-3102/4039, AJ-AK=-3102/4039, AK-AL=-3102/4039, AL-AM=-3102/4039, G-AM=-3102/4039
WEBS
C-L=-14/765, C-J=-1611/1789, D-J=-1156/1587, F-J=-1408/1622, F-H=-435/861

NOTES- (14)
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 0-9-0 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 B; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) G=2217, B=2040.
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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 106 lb up at 3-5-8, 41 lb down and 58 lb up at 5-5-8, 143 lb down and 240 lb up at 7-5-8, 111 lb down and 231 lb up at 9-5-8, 111 lb down and 231 lb up at 11-5-8, 111 lb down and 231 lb up at 13-5-8, 111 lb down and 231 lb up at 15-5-8, 111 lb down and 231 lb up at 17-5-8, 111 lb down and 231 lb up at 19-5-8, 111 lb down and 231 lb up at 21-5-8, and 111 lb down and 231 lb up at 23-5-8, and 111 lb down and 231 lb up at 25-5-8 on top chord, and 157 lb down and 161 lb up at 1-5-8, 93 lb down and 40 lb up at 3-5-8, 138 lb down and 107 lb up at 5-5-8, 72 lb down at 7-5-8, 72 lb down at 9-5-8, 72 lb down at 11-5-8, 72 lb down at 13-5-8, 72 lb down at 15-5-8, 72 lb down at 17-5-8, 72 lb down at 19-5-8, 72 lb down at 21-5-8, 72 lb down at 23-5-8, 72 lb down at 25-5-8, 196 lb down and 223 lb up at 27-5-8, 196 lb down and 223 lb up at 29-5-8, and 196 lb down and 223 lb up at 31-5-8, and 196 lb down and 223 lb up at 33-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

NOTES- (14)

14) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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-F=-60, F-G=-60, B-G=-20
   Concentrated Loads (lb)
   Vert: J=-36(F) D=-103(F) M=-46(F) N=-1(F) O=-103(F) P=-103(F) Q=-103(F) R=-103(F) S=-103(F) T=-103(F) U=-103(F) V=-103(F) W=-103(F) X=-157(F) Y=-93(F) Z=-138(F) AA=-36(F) AB=-36(F) AC=-36(F) AD=-36(F) AE=-36(F) AF=-36(F) AG=-36(F) AH=-36(F) AI=-36(F) AJ=-196(F) AK=-196(F) AL=-196(F) AM=-196(F)

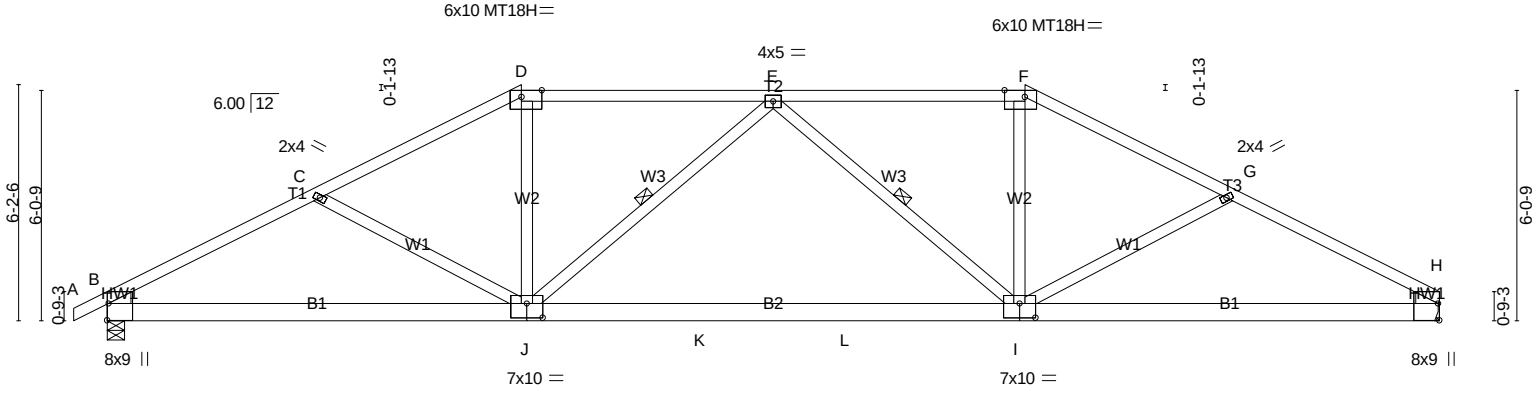
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A08	Hip	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:38 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-WZMl3AsDr4iG5a1bo7XtXVUOZ3B3tJk?BpVAYSzSBFx

-0-10-8	5-6-15	10-10-5	17-5-8	24-0-11	29-4-1	34-11-0
0-10-8	5-6-15	5-3-7	6-7-3	6-7-3	5-3-7	5-6-15

Scale = 1:60.4



10-10-5	24-0-11	34-11-0
10-10-5	13-2-5	10-10-5

Plate Offsets (X,Y)-- [B:Edge,0-0-7], [D:0-6-6,Edge], [F:0-6-6,Edge], [H:Edge,0-0-7], [I:0-5-0,0-4-8], [J:0-5-0,0-4-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plates Increase	1.15	TC	0.82	Vert(LL)	-0.33	I-J	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.93	Vert(TL)	-0.62	I-J	>665	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(TL)	0.10	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 199 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3,
Right: 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-2-3 oc purlins, except
2-0-0 oc purlins (3-4-0 max.): D-F.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS
1 Row at midpt E-J, E-I

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

REACTIONS. (lb/size)
B = 1529/0-5-8 (min. 0-2-6)
H = 1460/Mechanical
Max Horz
B = 118(LC 6)
Max Uplift
B = -615(LC 7)
H = -529(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-2531/1384, C-D=-2301/1220, D-E=-2018/1175, E-F=-2037/1183, F-G=-2322/1231, G-H=-2584/1419
BOT CHORD
B-J=-1072/2114, J-K=-1013/2304, K-L=-1013/2304, I-L=-1013/2304, H-I=-1118/2180
WEBS
C-J=-145/354, D-J=-240/671, E-J=-485/383, C-J=-145/354, D-J=-240/671, E-J=-485/383, F-I=-248/683, G-I=-197/397

NOTES- (12)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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, 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) B=615, H=529.
9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

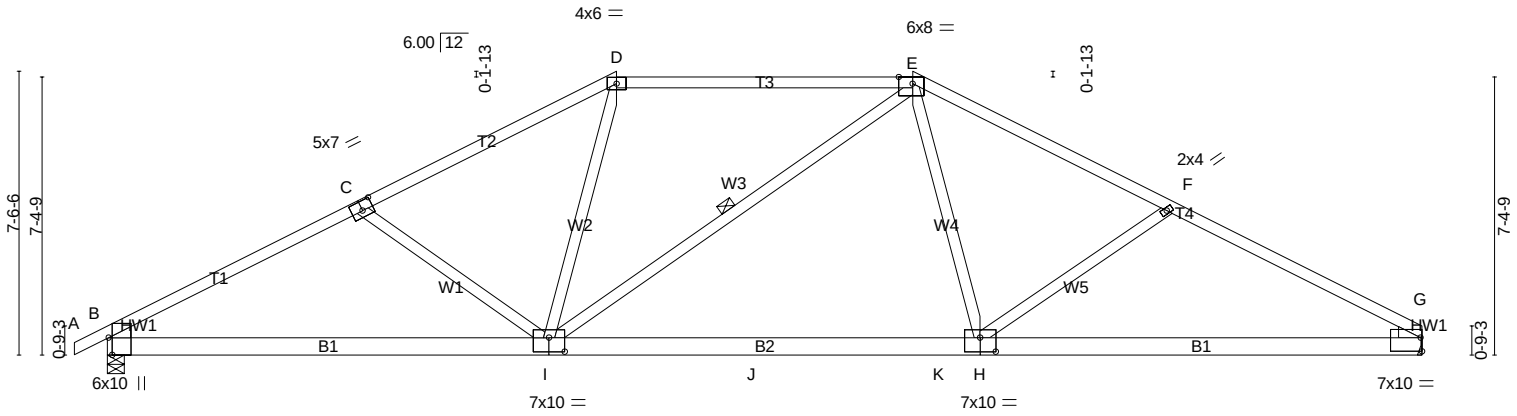
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A09	Hip	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:39 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-_lw7HWsrbNq7jkcnLq364j1YkTYkcnR9QTFj4vzSBFw

-0-10-8	6-9-6	13-6-5	21-4-11	28-1-10	34-11-0
0-10-8	6-9-6	6-8-15	7-10-5	6-8-15	6-9-6

Scale = 1:61.2



11-8-13	23-2-2	34-11-0
11-8-13	11-5-5	11-8-14

Plate Offsets (X,Y)-- [B:0-5-8,Edge], [C:0-3-8,0-3-0], [E:0-4-6,Edge], [G:Edge,0-4-6], [H:0-5-0,0-4-8], [I:0-5-0,0-4-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plates Increase	1.15	TC	0.86	Vert(LL)	-0.26	H-I	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.83	Vert(TL)	-0.47	G-H	>890	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(TL)	0.09	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 198 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x4 SP SS
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3,
Right: 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-2-0 oc purlins, except
2-0-0 oc purlins (3-7-5 max.): D-E.
BOT CHORD
Rigid ceiling directly applied or 6-11-0 oc bracing.
WEBS
1 Row at midpt E-I

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

REACTIONS. (lb/size)
B = 1539/0-5-8 (min. 0-2-7)
G = 1495/Mechanical
Max Horz
B = 146(LC 6)
Max Uplift
B = -645(LC 7)
G = -558(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-2538/1407, C-D=-2234/1245, D-E=-1790/1174, E-F=-2313/1252, F-G=-2638/1438
BOT CHORD
B-I=-1079/2126, I-J=-675/1841, J-K=-675/1841, H-K=-675/1841, G-H=-1121/2229
WEBS
C-I=-271/462, D-I=-151/545, E-H=-159/612, F-H=-309/503

NOTES- (11)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=645, G=558.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

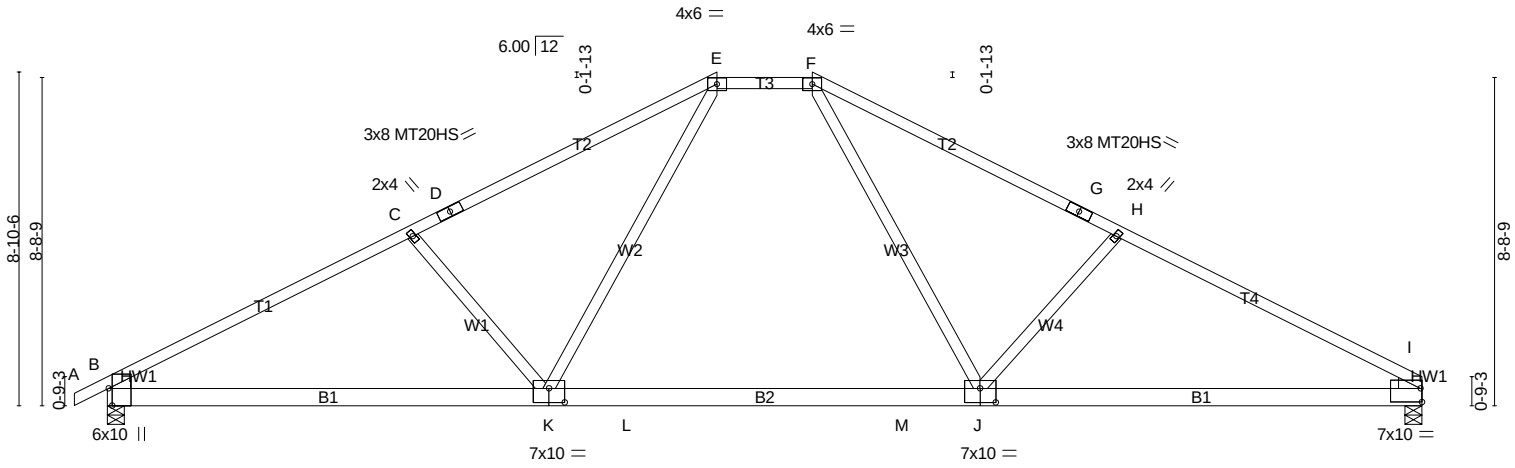
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A10	Hip	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:39 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-_lw7HWsrbNq7jkcnLq364j1XMTXych19QTFj4vzSBFw

-0-10-8	8-1-6	16-2-5	18-8-11	26-9-10	34-11-0
0-10-8	8-1-6	8-0-15	2-6-5	8-0-15	8-1-6

Scale = 1:61.2



11-8-13	23-2-2	34-11-0
11-8-13	11-5-5	11-8-14

Plate Offsets (X,Y)-- [B:0-5-8,Edge], [I:Edge,0-4-6], [J:0-5-0,0-4-8], [K:0-5-0,0-4-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plates Increase	1.15	TC	0.94	Vert(LL)	-0.35	J-K	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.95	Vert(TL)	-0.51	J-K	>814	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.09	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 186 lb	FT = 20%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-2-15 max.): E-F.
BOT CHORD
Rigid ceiling directly applied or 6-11-8 oc bracing.

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

REACTIONS. (lb/size)
B = 1591/0-5-8 (min. 0-2-8)
I = 1522/0-5-8 (min. 0-2-6)
Max Horz
B = 173(LC 6)
Max Uplift
B = -667(LC 7)
I = -579(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-2661/1404, C-D=-2356/1289, D-E=-2232/1326, E-F=-1635/1137, F-G=-2234/1328, G-H=-2359/1291, H-I=-2666/1410
BOT CHORD
B-K=-1061/2231, K-L=-539/1635, L-M=-539/1635, J-M=-539/1635, I-J=-1073/2240
WEBS
C-K=-408/560, E-K=-340/788, F-J=-343/793, H-J=-417/577

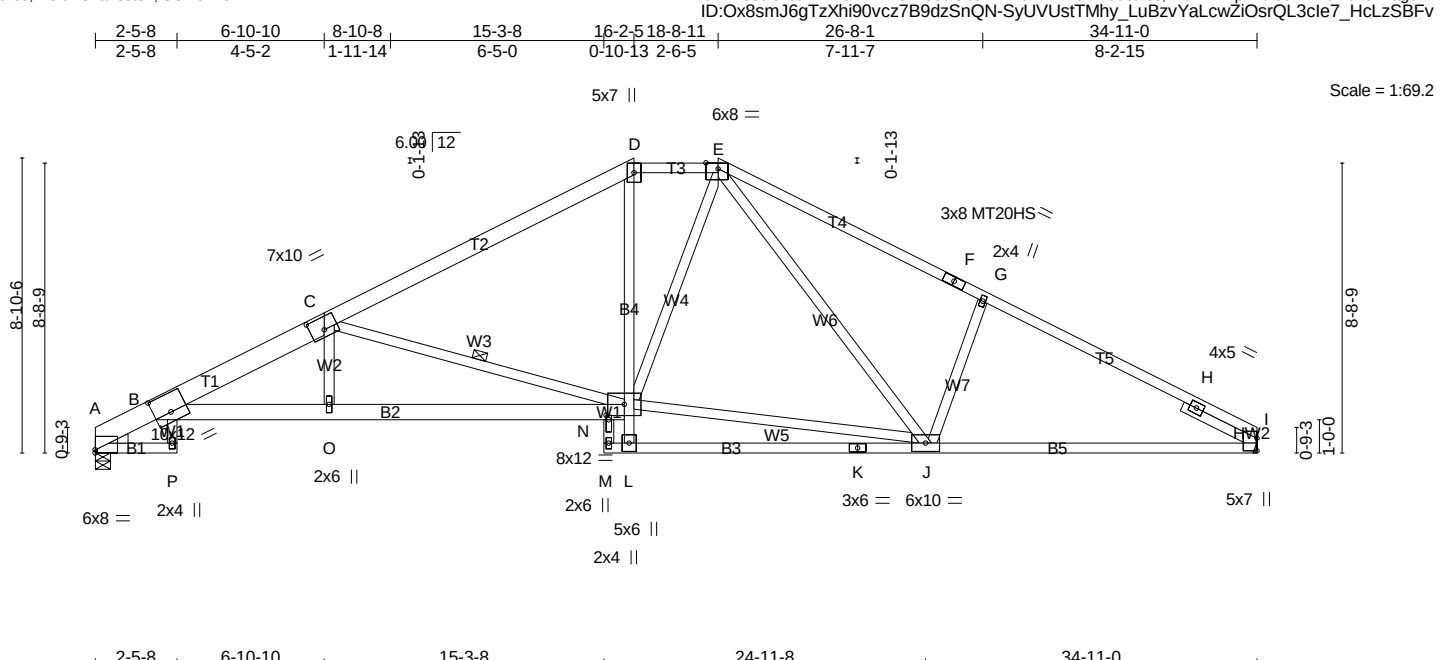
NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=667, I=579.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A12	Hip	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:40 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-SyUVUstTMhy_LuBzvYaLcwZiOsrQL3cIe7_HcLzSBFv



2-5-8	6-10-10	15-3-8	24-11-8	34-11-0
2-5-8	4-5-2	8-4-14	9-8-0	9-11-8

Plate Offsets (X,Y)-- [A:0-0-0,0-1-1], [B:0-6-0,0-6-9], [C:0-5-0,0-4-8], [E:0-4-6,Edge], [N:0-1-8,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plates Increase	1.15	TC	0.93	Vert(LL)	0.31	B-O	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	1.00	Vert(TL)	-0.56	J-L	>749	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(TL)	0.35	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)							Weight: 228 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x6 SP No.2, T4: 2x4 SP SS
T1: 2x8 SP DSS
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x6 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3
SLIDER

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-2-6 max.): D-E.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 10-0-0 oc bracing: L-N
WEBS
1 Row at midpt C-N

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

REACTIONS. (lb/size)
A = 1408/0-5-8 (min. 0-2-3)
I = 1404/Mechanical
Max Horz
A = 171(LC 6)
Max Uplift
A = -580(LC 7)
I = -583(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
A-B=-624/386, B-C=-3329/1940, C-D=-2037/1235, D-E=-1669/1211, E-F=-2065/1489, F-G=-2180/1453, G-H=-2304/1388, H-I=-814/0
BOT CHORD
B-O=-1721/3118, N-O=-1715/3131, D-N=-246/536, I-J=-1067/1991
WEBS
C-N=-1499/1103, J-N=-601/1394, E-J=-410/530, E-N=-130/408, G-J=-408/554, C-O=0/366

NOTES- (12)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) 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) A=580, I=583.
9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

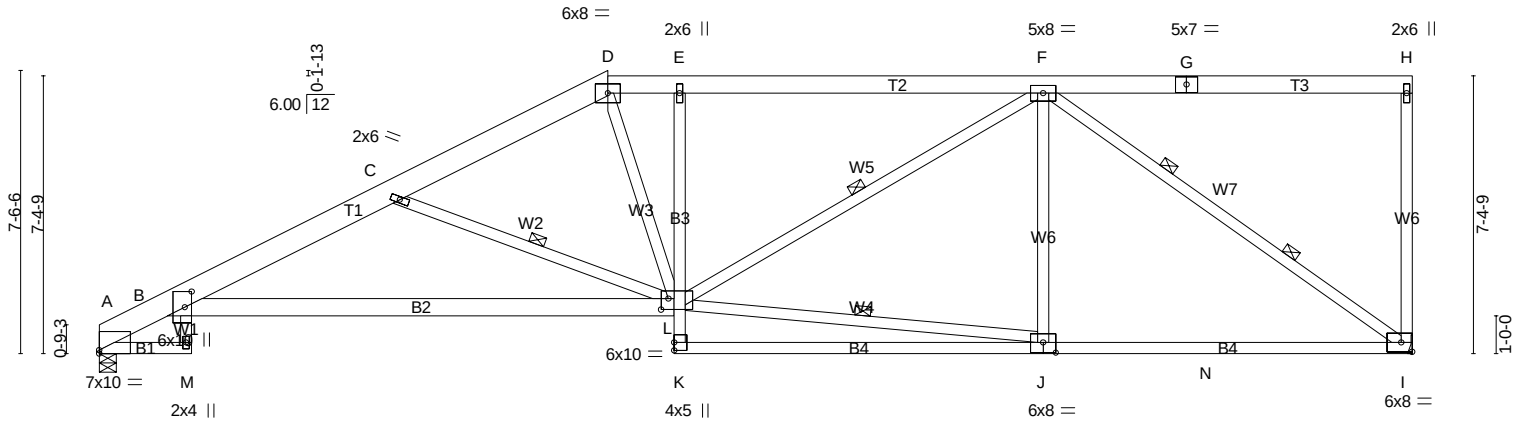
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A13	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:41 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-w82uhCu57?4ry2mATF5a986yNGEv4W1Stnkq8nzSBFu

2-5-8	7-11-15	13-6-5	15-3-8	25-1-4	34-11-0
2-5-8	5-6-7	5-6-7	1-9-3	9-9-12	9-9-12

Scale = 1:61.3



2-5-8	15-3-8	25-1-4	34-11-0
2-5-8	12-10-0	9-9-12	9-9-12

Plate Offsets (X,Y)-- [A:0-0-0,0-1-1], [B:0-5-0,0-2-3], [J:0-4-0,0-3-4], [L:0-2-5,0-3-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plates Increase	1.15	TC	0.59	Vert(LL)	-0.31	B-L	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.79	Vert(TL)	-0.90	B-L	>461	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(TL)	0.28	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 260 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T1: 2x8 SP DSS
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x6 SP DSS, B4: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
W7: 2x4 SP No.2

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-1-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-6 max.): D-H.
BOT CHORD
Rigid ceiling directly applied or 5-11-8 oc bracing.
WEBS
1 Row at midpt C-L, F-L, J-L
2 Rows at 1/3 pts F-I

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

REACTIONS. (lb/size)
A = 1431/0-5-8 (min. 0-2-4)
I = 1518/Mechanical
Max Horz
A = 452(LC 7)
Max Uplift
A = -517(LC 7)
I = -679(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
A-B=-850/74, B-C=-3028/1793, C-D=-2192/1186, D-E=-2158/1274, E-F=-2141/1274
BOT CHORD
B-L=-2010/2801, E-L=-476/410, J-N=-865/1633, I-N=-865/1633
WEBS
C-L=-1006/951, F-J=0/314, F-I=-1986/1062, C-L=-1006/951, F-J=0/314, F-I=-1986/1062, D-L=-481/956, F-L=-479/596, J-L=-792/1641

NOTES- (11)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=517, I=679.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

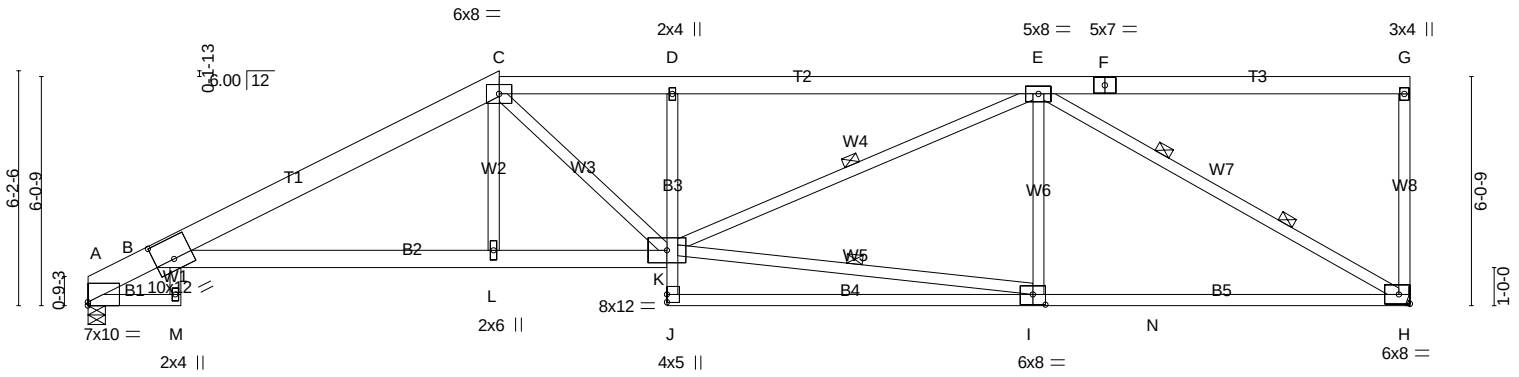
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A14	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:41 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-w82uhCu57?4ry2mATF5a986yFGDZ4WzStnkq8nzSBFu

2-5-8	10-10-5	15-3-8	25-1-4	34-11-0
2-5-8	8-4-13	4-5-3	9-9-12	9-9-12

Scale = 1:60.9



2-5-8	10-10-5	15-3-8	25-1-4	34-11-0
2-5-8	8-4-13	4-5-3	9-9-12	9-9-12

Plate Offsets (X,Y)-- [A:0-0-0,0-1-1], [B:0-6-0,0-6-9], [I:0-4-0,0-3-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plates Increase	1.15	TC	0.60	Vert(LL)	0.34	B-L	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.88	Vert(TL)	-0.66	I-J	>627	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(TL)	0.36	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 244 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
T1: 2x8 SP DSS
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x6 SP No.2, B5: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
W8,W7: 2x4 SP No.2

BRACING-

TOP CHORD
Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-2 max.): C-G.
BOT CHORD
Rigid ceiling directly applied or 5-8-4 oc bracing.
WEBS
1 Row at midpt I-K, E-K
2 Rows at 1/3 pts E-H

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

REACTIONS. (lb/size)

A = 1424/0-5-8 (min. 0-2-4)
H = 1479/Mechanical
Max Horz
A = 366(LC 7)
Max Uplift
A = -499(LC 7)
H = -686(LC 8)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
A-B=-846/154, B-C=-2702/1398, C-D=-2674/1537, D-E=-2672/1541
BOT CHORD
B-L=-1447/2415, K-L=-1447/2406, D-K=-415/385, I-J=-84/279, I-N=-1033/1970, H-N=-1033/1970
WEBS
C-K=-385/540, I-K=-948/1719, E-K=-569/773, E-I=0/317, E-H=-2246/1188, C-L=0/424

NOTES- (11)

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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=499, H=686.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)

Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	A15	Half Hip Girder	1	2	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:43 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-tXAe6uvMfcKZCLvYag72EZBED4udYRykL5DxDgzSBFs

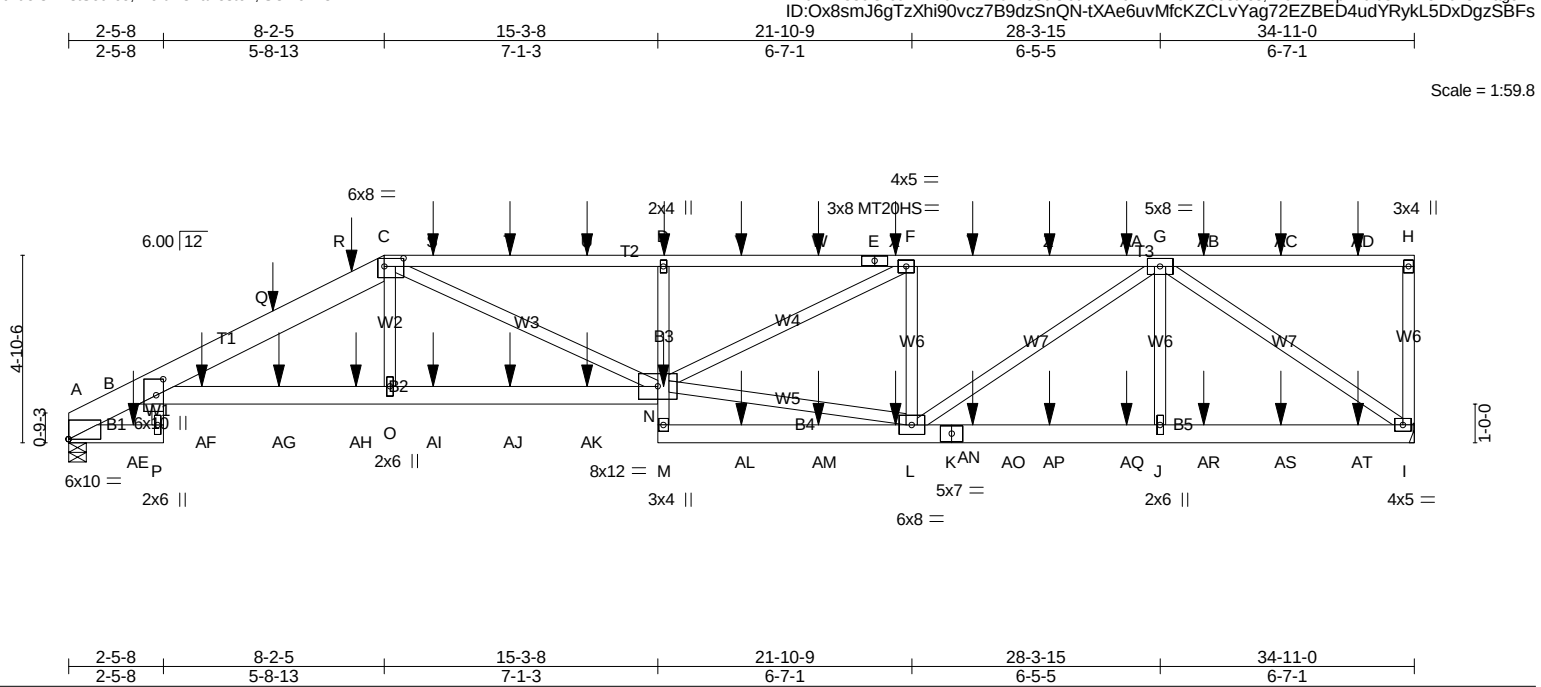


Plate Offsets (X,Y)-- [A:0-0-0,0-0-1], [B:0-5-0,0-2-3], [C:0-6-0,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.89	Vert(LL)	0.47	D	>880	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.90	Vert(TL)	-0.52	N-O	>792	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.27	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 469 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP DSS *Except*
T2: 2x4 SP SS, T3: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
B3: 2x4 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 (4-8-3 max.): C-H.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size)
A = 2650/0-5-8 (min. 0-2-1)
I = 2571/Mechanical
Max Horz
A = 287(LC 5)
Max Uplift
A = -1966(LC 5)
I = -2157(LC 4)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
A-B=-1447/941, B-Q=-5416/4255, Q-R=-5312/4255, C-R=-5211/4192, C-S=-6424/5386, S-T=-6420/5385, T-U=-6419/5383, D-U=-6415/5382, D-V=-6341/5328, V-W=-6341/5328, E-W=-6341/5328, E-X=-6341/5328, F-X=-6341/5328, F-Y=-4758/3981, Y-Z=-4758/3981, Z-AA=-4758/3981, G-AA=-4758/3981, H-I=-294/383
BOT CHORD
B-AF=-4033/4957, AF-AG=-4032/4955, AG-AH=-4032/4954, O-AH=-4032/4954, O-AI=-4043/4981, AI-AJ=-4043/4981, AJ-AK=-4043/4981, N-AK=-4043/4981, D-N=-703/936, M-AL=-530/661, BOT CHORD
B-AF=-4033/4957, AF-AG=-4032/4955, AG-AH=-4032/4954, O-AH=-4032/4954, O-AI=-4043/4981, AI-AJ=-4043/4981, AJ-AK=-4043/4981, N-AK=-4043/4981, D-N=-703/936, M-AL=-530/661, AL-AM=-530/661, AM-AN=-530/661, L-AN=-530/661, K-L=-2657/3157, K-AO=-2657/3157, AO-AP=-2657/3157, AP-AQ=-2657/3157, J-AQ=-2657/3157, J-AR=-2657/3157, AR-AS=-2657/3157, AS-AT=-2657/3157, I-AT=-2657/3157
WEBS
C-O=-244/660, C-N=-1536/1588, L-N=-3492/4147, F-N=-1532/1800, F-L=-1549/1661, G-L=-1614/1952, G-J=0/534, G-I=-3791/3179, B-P=-213/268

NOTES- (14)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row 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 B; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) A=1966, I=2157.
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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1 lb down and 58 lb up at 5-5-8, 115 lb down and 190 lb up at 7-5-8, 115 lb down and 181 lb up at 9-5-8, 115 lb down and 181 lb up at 11-5-8, 115 lb down and 181 lb up at 13-5-8, 111 lb down and 231 lb up at 15-5-8, 111 lb down and 231 lb up at 17-5-8, 111 lb down and 231 lb up at 19-5-8, 111 lb down and 231 lb up at 21-5-8, 111 lb down and 231 lb up at 23-5-8, 111 lb down and 231 lb up at 25-5-8, 111 lb down and 231 lb up at 27-5-8, 111 lb down and 231 lb up at 29-5-8, and 111 lb down and 231 lb up at 31-5-8, and 111 lb down and 231 lb up at 33-5-8 on top chord, and 157 lb down and 161 lb up at 1-8-4, 198 lb down and 146 lb up at 3-5-8, 138 lb down and 107 lb up at 5-5-8, 39 lb down and 29 lb up at 7-5-8, 39 lb down and 29 lb up at 9-5-8, 39 lb down and 29 lb up at 11-5-8, 39 lb down and 29 lb up at 13-5-8, 72 lb down at 15-5-4, 72 lb down at 17-5-8, 72 lb down at 19-5-8, 72 lb down at 21-5-8, 72 lb down at 23-5-8, 72 lb down at 25-5-8, 72 lb down at 27-5-8, 72 lb down at 29-5-8, and 72 lb down at 31-5-8, and 72 lb down at 33-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

NOTES- (14)

14) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, A-P=-20, B-N=-20, I-M=-20
Concentrated Loads (lb)
Vert: N=-36(B) D=-103(B) Q=-1(B) R=-101(B) S=-101(B) T=-101(B) U=-101(B) V=-103(B) W=-103(B) X=-103(B) Y=-103(B) Z=-103(B) AA=-103(B) AB=-103(B) AC=-103(B) AD=-103(B) AE=-157(B) AF=-198(B) AG=-138(B) AH=-38(B) AI=-38(B) AJ=-38(B) AK=-38(B) AL=-36(B) AM=-36(B) AN=-36(B) AO=-36(B) AP=-36(B) AQ=-36(B) AR=-36(B) AS=-36(B) AT=-36(B)

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	B01	GABLE	4	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:43 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-tXAe6uvMfcKZCLvYag72EZBOd44AYddkL5DxDgzSBFs

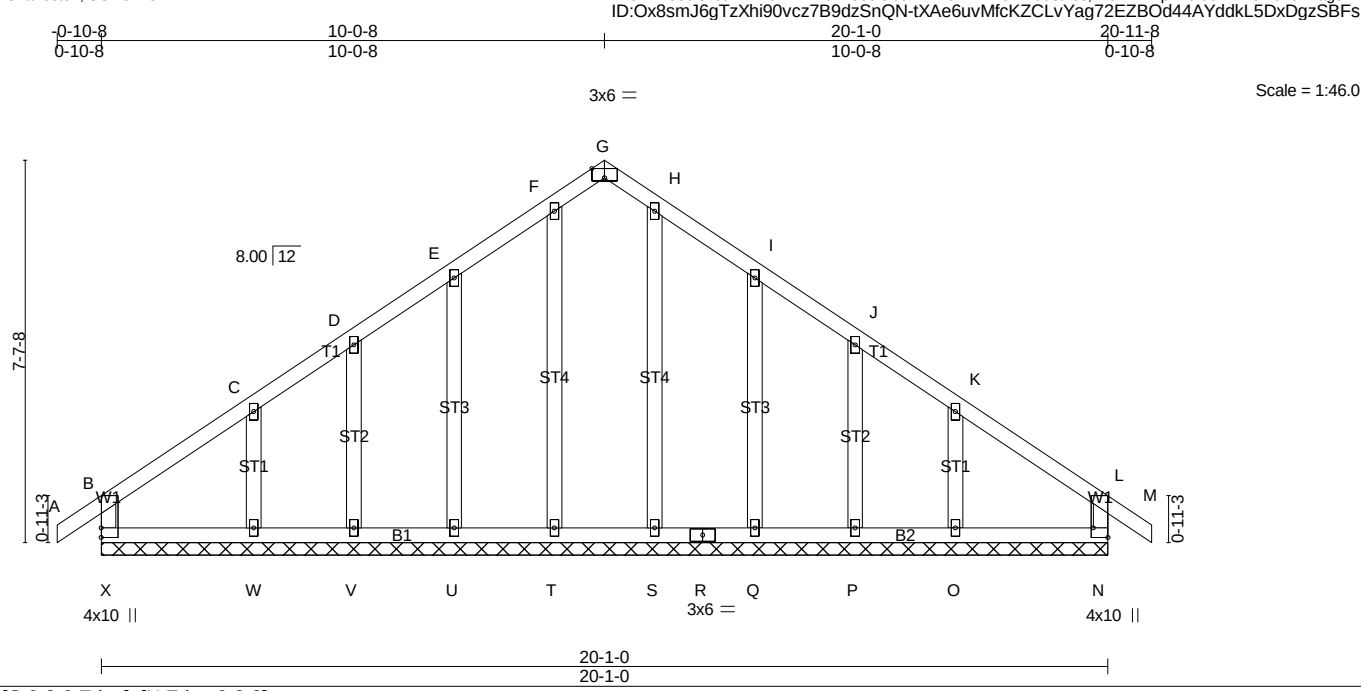


Plate Offsets (X,Y)-- [G:0-3-0,Edge], [N:Edge,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.22	Vert(LL)	-0.00	L	n/r	120	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.16	Vert(TL)	-0.00	L	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.01	N	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 123 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

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

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

REACTIONS. All bearings 20-1-0.
(lb) - Max Horz
X= 375(LC 6)
Max Uplift
All uplift 100 lb or less at joint(s) N, V, P except X=-125(LC 5), U=-200(LC 7), W=-264(LC 7), Q=-203(LC 8), O=-258(LC 8)
Max Grav
All reactions 250 lb or less at joint(s) X, N, T, U, V, W, S, Q, P, O

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
E-F=-62/323, F-G=-52/268, G-H=-52/268, H-I=-62/323
WEBS
C-W=-154/257, K-O=-154/253

NOTES- (13)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N, V, P except (jt=lb) X=125, U=200, W=264, Q=203, O=258.
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) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	B02	Common Girder	3	2	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:44 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-Ljj0KEw_QwSQpVUl8OeHnmkN4UITHuGuZlyUl6zSBFr

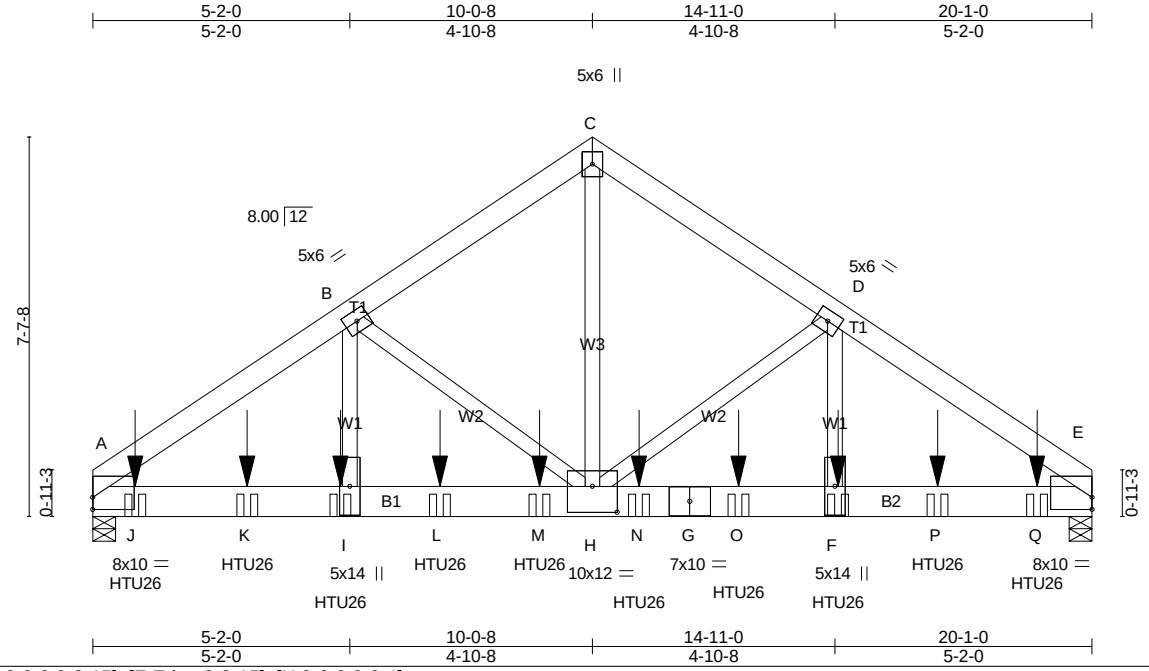


Plate Offsets (X,Y)-- [A:0-0-0,0-2-15], [E:Edge,0-2-15], [H:0-6-0,0-6-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.95	Vert(LL)	0.12	H-I	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.67	Vert(TL)	-0.20	H-I	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.05	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 312 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 4-8-10 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)
A = 7892/0-5-8 (req. 0-6-3)
E = 7607/0-5-8 (req. 0-5-15)
Max Horz
A = -342(LC 3)
Max Uplift
A = -3364(LC 5)
E = -3334(LC 6)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
A-B=-9734/4202, B-C=-6674/3033, C-D=-6674/3033, D-E=-9650/4209
BOT CHORD
A-J=-3344/7667, J-K=-3344/7667, I-K=-3344/7667, I-L=-3344/7667, L-M=-3344/7667, H-M=-3344/7667, H-N=-3231/7601, G-N=-3231/7601, G-O=-3231/7601, F-O=-3231/7601, F-P=-3231/7601, P-Q=-3231/7601, E-Q=-3231/7601
WEBS
C-H=-3116/6976, D-H=-2660/1366, D-F=-1464/3524, B-H=-2743/1357, B-I=-1454/3627

NOTES- (13)

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 0-5-0 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 B; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) WARNING: Required bearing size at joint(s) A, E greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=3364, E=3334.
9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-3-0 oc max. starting at 0-10-4 from the left end to 18-11-12 to connect truss(es) A03 (1 ply 2x6 SP) , A05 (1 ply 2x6 SP) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with
13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-E=-60, A-E=-20
Concentrated Loads (lb)
Vert: F=-1367(B) I=-1367(B) J=-1497(B) K=-1497(B) L=-1367(B) M=-1367(B) N=-1367(B) O=-1367(B) P=-1367(B) Q=-1367(B)

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	B03	Common Girder	1	2	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:44 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-Ljj0KEw_QwSQpVUl8OeHnmkMmUI9HtLuZlyUl6zSBFr

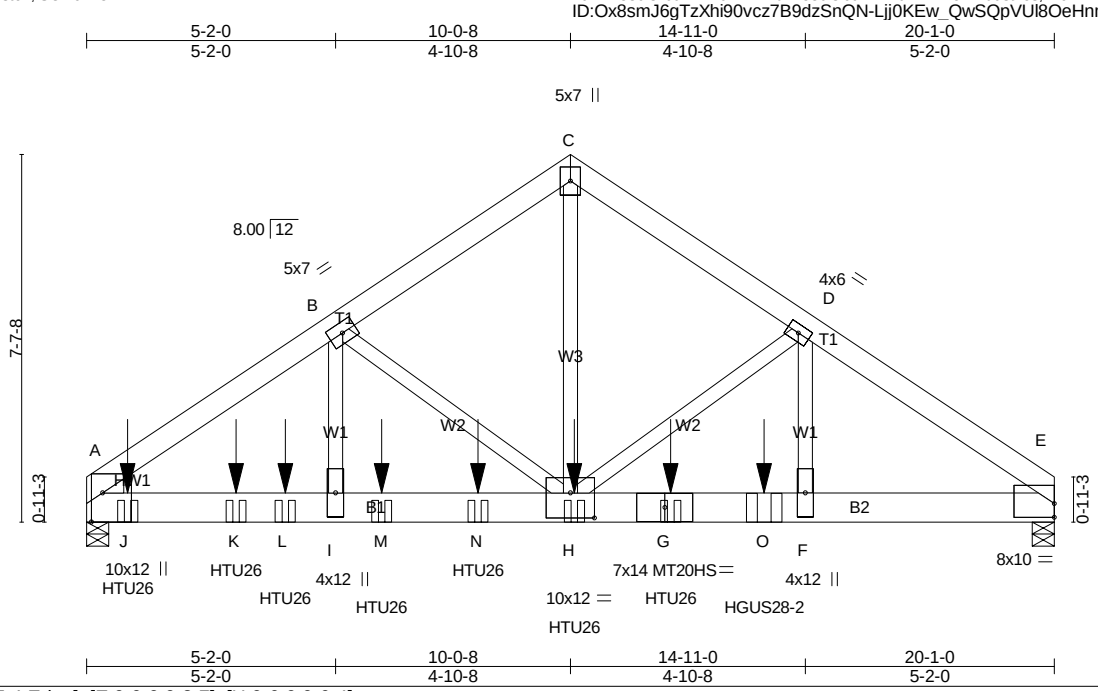


Plate Offsets (X,Y)-- [A:0-7-4,Edge], [E:0-0-0,0-3-7], [H:0-6-0,0-6-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.97	Vert(LL)	0.15	F-H	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.69	Vert(TL)	-0.22	F-H	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(TL)	0.06	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 313 lb	FT = 20%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-5-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)
E = 5775/0-5-8 (min. 0-4-8)
A = 8664/0-5-8 (req. 0-6-13)
Max Horz
A = -342(LC 3)
Max Uplift
E = -3266(LC 6)
A = -3953(LC 5)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
A-B=-10650/4997, B-C=-7116/3774, C-D=-7111/3769, D-E=-9352/5336
BOT CHORD
A-J=-3975/8398, J-K=-3975/8398, K-L=-3975/8398, I-L=-3975/8398, I-M=-3975/8398, M-N=-3975/8398, H-N=-3975/8398, G-H=-4108/7322, G-O=-4108/7322, F-O=-4108/7322, E-F=-4108/7322
WEBS
C-H=-3920/7452, D-H=-1837/1692, D-F=-1977/2629, B-H=-3201/1372, B-I=-1540/4218

NOTES- (15)

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 B; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) WARNING: Required bearing size at joint(s) A greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=3266, A=3953.
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 HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-3-0 oc max. starting at 0-10-4 from the left end to 12-1-8 to connect truss(es) A03 (1 ply 2x6 SP), A02 (1 ply 2x6 SP), A12 (1 ply 2x4 SP), A13 (1 ply 2x4 SP), A14 (1 ply 2x4 SP) to back face of bottom chord.
13) Use Simpson Strong-Tie HGUS28-2 (36-10d Girder, 12-10d Truss) or equivalent at 14-0-12 from the left end to connect truss(es) A15 (2 ply 2x6 SP) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-E=-60, A-E=-20
Concentrated Loads (lb)
Vert: G=-1459(B) H=-1498(B) J=-1497(B) K=-1497(B) L=-1492(B) M=-1492(B) N=-1384(B) O=-2551(B)

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	C01	GABLE	4	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:45 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-pvHOXaxcBDbHRf3xi59WJ_Hletnn0Xe1oPi2HYzSBFq

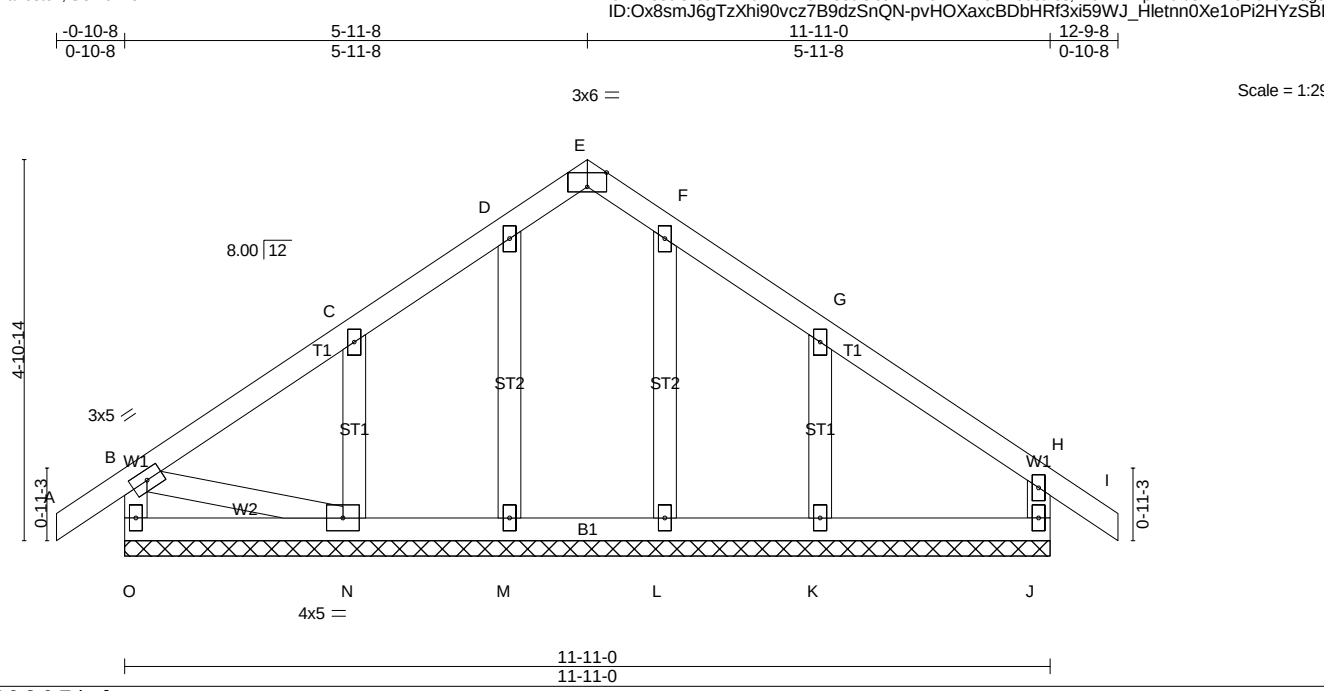


Plate Offsets (X,Y)-- [E:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.12	Vert(LL)	-0.00	H	n/r	120	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.09	Vert(TL)	-0.00	H	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 66 lb	FT = 20%

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

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

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

REACTIONS. All bearings 11-11-0.
(lb) - Max Horz
O=-243(LC 5)
Max Uplift
All uplift 100 lb or less at joint(s) O, J, M except N=-234(LC 7), K=-255(LC 8)
Max Grav
All reactions 250 lb or less at joint(s) O, J, M, N, L, K

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
G-K=-153/267

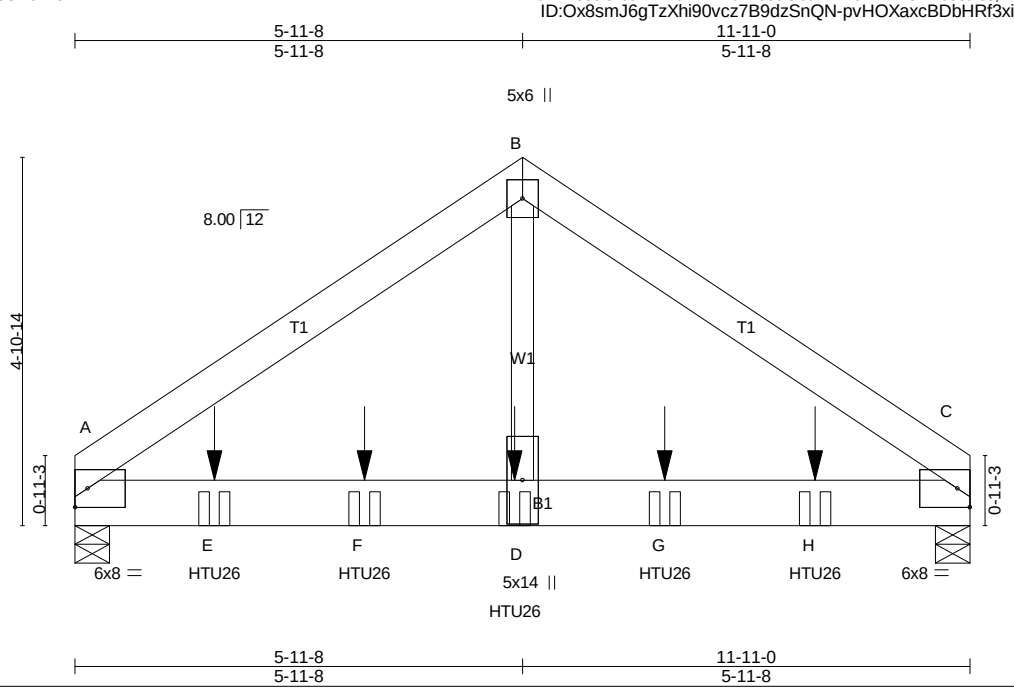
NOTES- (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) O, J, M except (jt=lb) N=234, K=255.
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) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	C02	Common Girder	3	2	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:45 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-pvHOXaxcBDbHRf3xi59WJ_He1til0Pz1oPi2HYzSBFq



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.55	Vert(LL)	0.05	C-D	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.41	Vert(TL)	-0.10	C-D	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.63	Horz(TL)	0.02	C	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 154 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 6-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)
A = 4242/0-5-8 (min. 0-3-5)
C = 4133/0-5-8 (min. 0-3-4)
Max Horz
A = -210(LC 3)
Max Uplift
A = -1721(LC 5)
C = -1677(LC 6)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
A-B=-4718/1929, B-C=-4719/1929
BOT CHORD
A-E=-1440/3725, E-F=-1440/3725, D-F=-1440/3725, D-G=-1440/3725, G-H=-1440/3725, C-H=-1440/3725
WEBS
B-D=-1996/5174

NOTES- (12)
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 0-6-0 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 B; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) A=1721, C=1677.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) 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 1-10-4 from the left end to 9-10-4 to connect truss(es) A02 (1 ply 2x6 SP) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Standard
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, A-C=-20
Concentrated Loads (lb)
Vert: D=-1492(B) E=-1492(B) F=-1492(B) G=-1492(B) H=-1492(B)

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	C03	Common Girder	1	2	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:46 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-H6rnlvyEyXj83pe7GohlsBpp7H2VltQB13Rbq?zSBFp

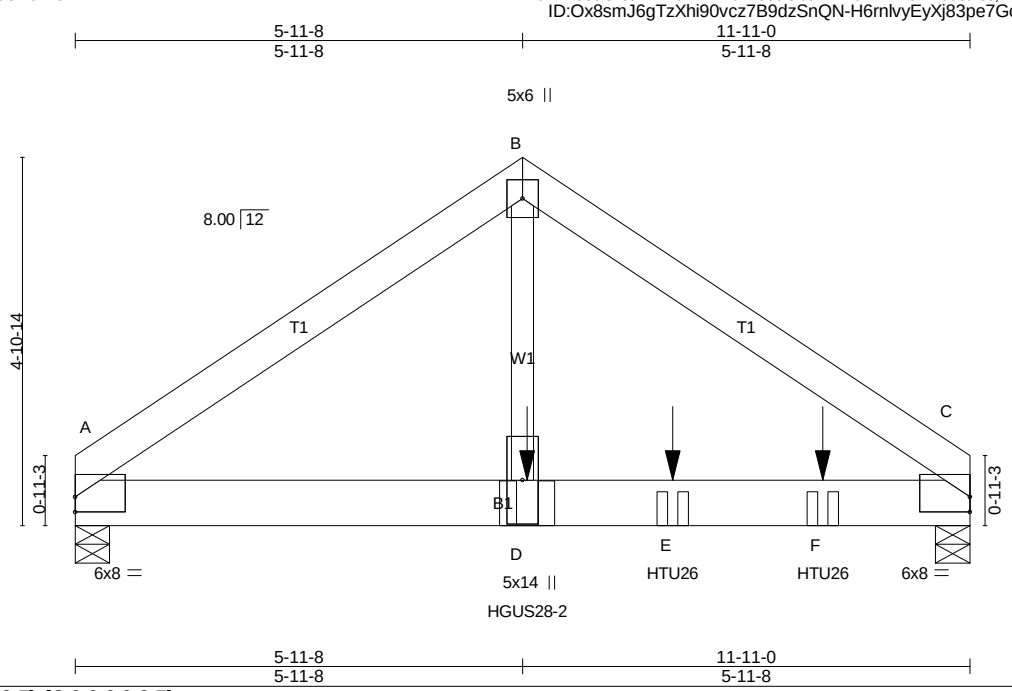


Plate Offsets (X,Y)-- [A:0-0-0,0-2-7], [C:0-0-0,0-2-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.53	Vert(LL)	0.07	C-D	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.44	Vert(TL)	-0.12	C-D	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.56	Horz(TL)	0.01	C	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 154 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 6-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)
A = 2520/0-5-8 (min. 0-2-0)
C = 4052/0-5-8 (min. 0-3-3)
Max Horz
A = -210(LC 11)
Max Uplift
A = -1564(LC 5)
C = -2152(LC 6)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
A-B=-4211/2571, B-C=-4156/2558
BOT CHORD
A-D=-1943/3279, D-E=-1943/3279, E-F=-1943/3279, C-F=-1943/3279
WEBS
B-D=-2772/4544

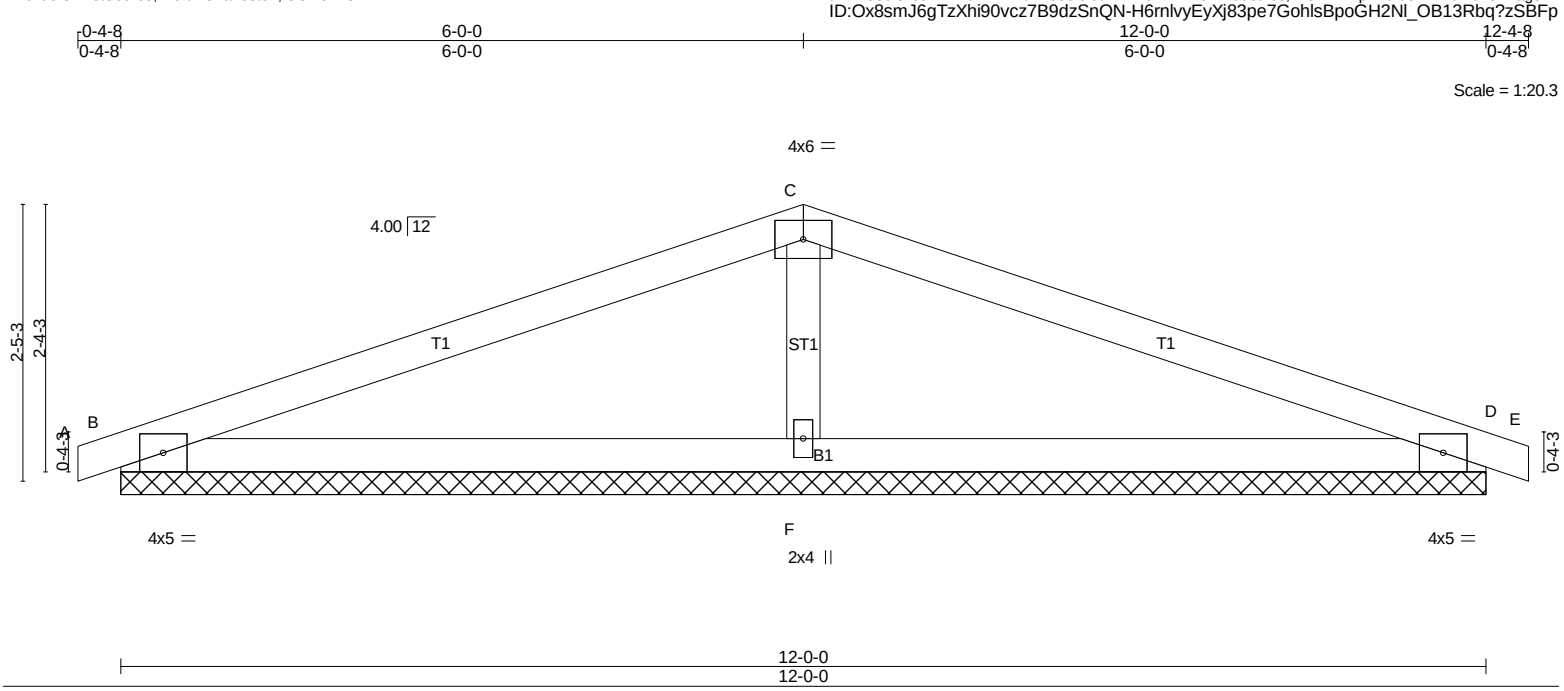
NOTES- (13)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-5-0 oc.
2) All loads are 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 B; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) A=1564, C=2152.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Use Simpson Strong-Tie HGUS28-2 (36-10d Girder, 12-10d Truss) or equivalent at 6-0-4 from the left end to connect truss(es) A07 (2 ply 2x6 SP) to back face of bottom chord.
11) 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 7-11-8 from the left end to 9-11-8 to connect truss(es) A08 (1 ply 2x6 SP), A09 (1 ply 2x6 SP) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, A-C=-20
Concentrated Loads (lb)
Vert: D=-2741(B) E=-1440(B) F=-1475(B)

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	CP01	Common Girder	4	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:46 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-H6rnlvyEyXj83pe7GohlsBpoGH2Nl_OB13Rbq?zSBFp



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.58	Vert(LL)	0.02	E	n/r	120	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.39	Vert(TL)	0.03	E	n/r	90		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 41 lb	FT = 20%

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

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

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

REACTIONS. (lb/size)
B = 228/12-0-0 (min. 0-1-9)
D = 228/12-0-0 (min. 0-1-9)
F = 549/12-0-0 (min. 0-1-9)
Max Horz
B = 46(LC 5)
Max Uplift
B = -144(LC 7)
D = -151(LC 6)
F = -190(LC 7)
Max Grav
B = 235(LC 11)
D = 235(LC 12)
F = 549(LC 1)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
C-F=-366/374

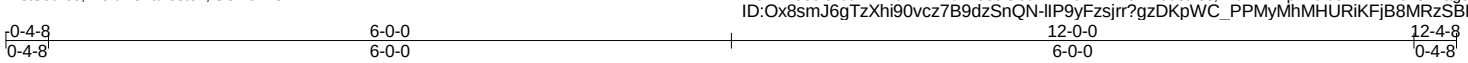
NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=144, D=151, F=190.
9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

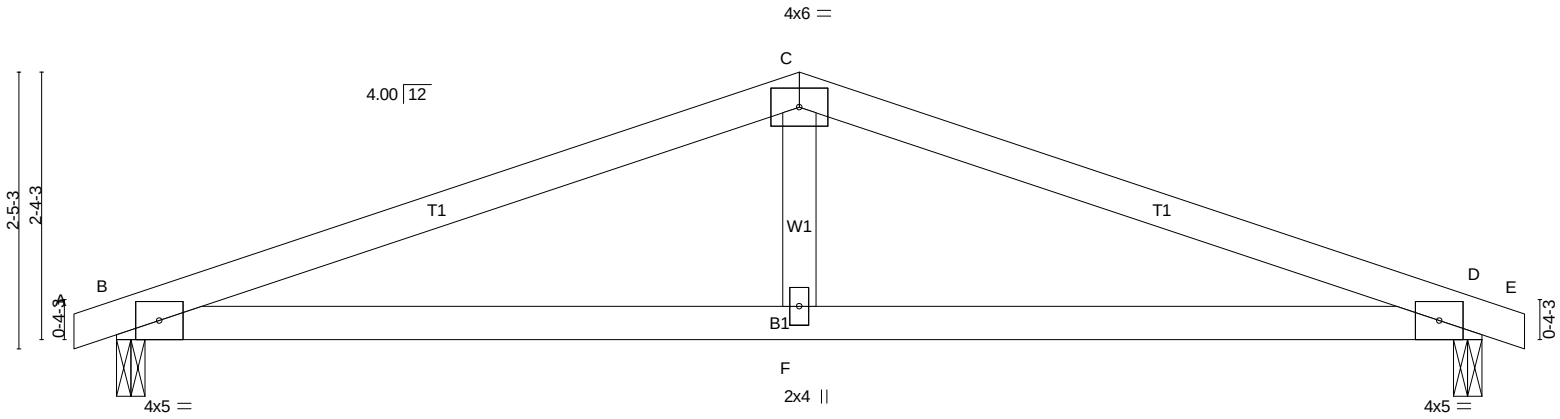
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	CP02	Common	14	1	Job Reference (optional)

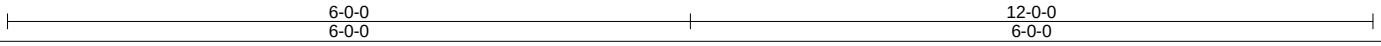
Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:47 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-lIP9yFzsjrr?gzDKpWC_PPMyMhMHURiKFjB8MRzSBFo



Scale = 1:20.3





LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.69	Vert(LL)	0.14	D-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.47	Vert(TL)	-0.10	B-F	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	-0.02	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 41 lb	FT = 20%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-0-15 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 4-7-0 oc bracing.

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

REACTIONS. (lb/size)
B = 500/0-3-0 (min. 0-1-8)
D = 500/0-3-0 (min. 0-1-8)
Max Horz
B = -46(LC 6)
Max Uplift
B = -451(LC 7)
D = -451(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-877/1479, C-D=-877/1479
BOT CHORD
B-F=-1306/776, D-F=-1306/776
WEBS
C-F=-535/283

NOTES- (8)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=451, D=451.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	D01	GABLE	4	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:47 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-lIP9yFzsjrr?gzDKpWC_PPM3fhS4URDKFjB8MRzSBFo

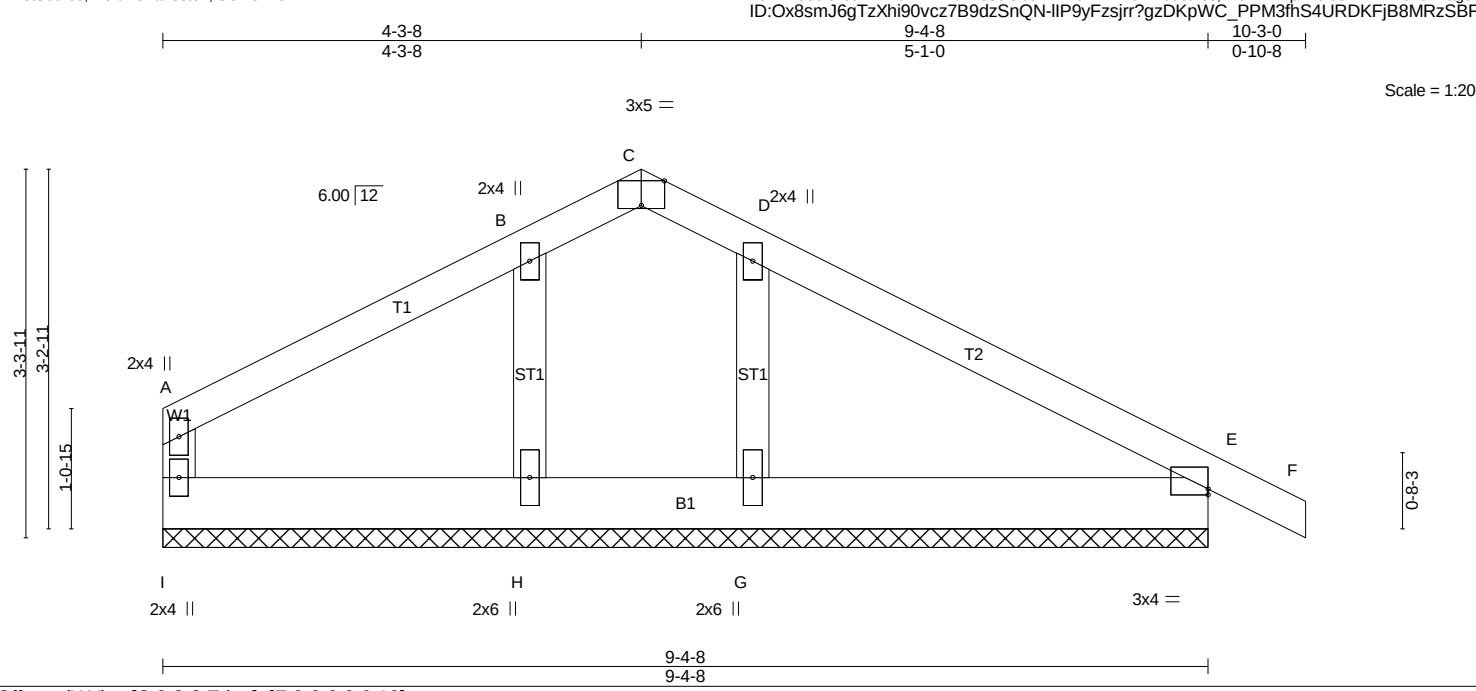


Plate Offsets (X,Y)-- [C:0-2-8,Edge], [E:0-0-0,0-0-10]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plates Increase	1.15	TC	0.22	Vert(LL)	0.00	F	n/r	120	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.10	Vert(TL)	0.01	F	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 46 lb	FT = 20%

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

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

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

REACTIONS. All bearings 9-4-8.
(lb) - Max Horz
I= -96(LC 5)
Max Uplift
All uplift 100 lb or less at joint(s) I except E=-119(LC 8), H=-121(LC 7), G=-176(LC 8)
Max Grav
All reactions 250 lb or less at joint(s) I, E, H except G=302(LC 12)

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

NOTES- (11)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I except (jt=lb) E=119, H=121, G=176.
9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	D02	Common	4	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:47 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-lIP9yFzsjrr?gzDKpWC_PPM1NhRRUR6KFjB8MRzSBFo

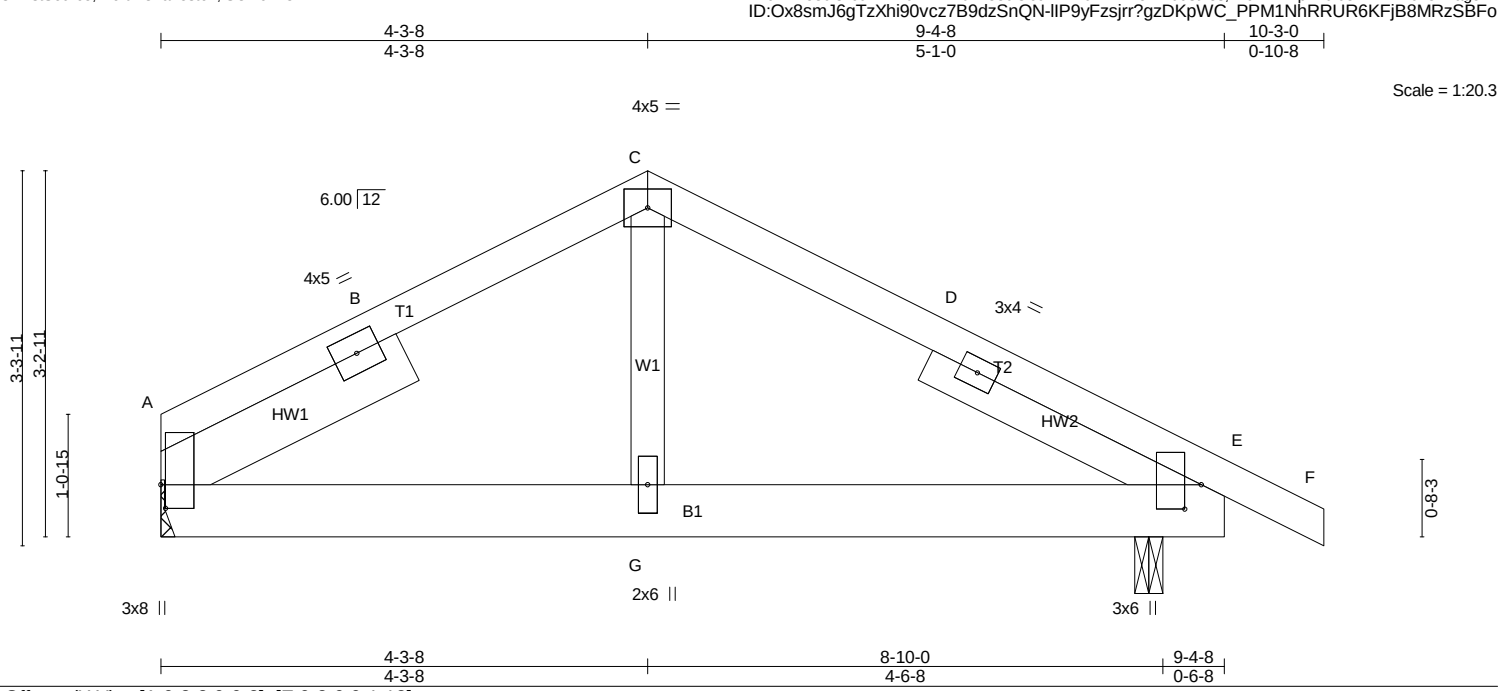


Plate Offsets (X,Y)-- [A:0-2-8,0-0-8], [E:0-2-9,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.37	Vert(LL)	0.02	E-G	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.14	Vert(TL)	-0.02	E-G	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 53 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER
Left 2x6 SP No.2 2-5-6,
Right 2x4 SP No.2 2-7-12

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 9-10-15 oc bracing.

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

REACTIONS. (lb/size)
A = 367/Mechanical
E = 433/0-3-0 (min. 0-1-8)
Max Horz
A = -69(LC 8)
Max Uplift
A = -289(LC 8)
E = -403(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
A-B=-456/759, B-C=-369/784, C-D=-369/758, D-E=-466/743
BOT CHORD
A-G=-503/330, E-G=-503/330
WEBS
C-G=-433/208

NOTES- (9)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever right exposed ; end vertical right exposed; porch 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 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) A=289, E=403.
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.
9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	D03	Common	8	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:48 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-DUzX9bzUU8zsI7oWNDjDxcvDL5oMDt6UUNwiutzSBFn

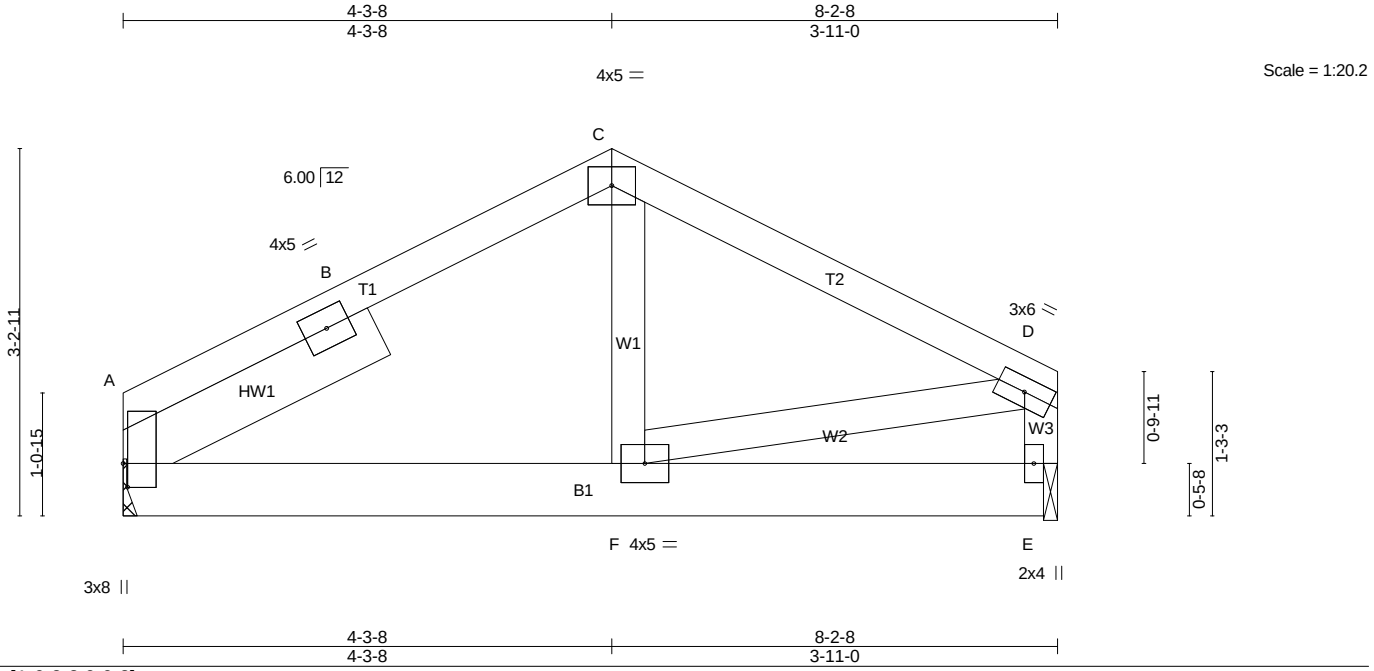


Plate Offsets (X,Y)-- [A:0-2-8,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.29	Vert(LL)	0.01	A-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.10	Vert(TL)	-0.01	A-F	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 48 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W3: 2x4 SP No.2
SLIDER
Left 2x6 SP No.2 2-6-6

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

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

REACTIONS. (lb/size)
A = 322/Mechanical
E = 322/0-1-8 (min. 0-1-8)
Max Horz
A = 98(LC 7)
Max Uplift
A = -275(LC 7)
E = -260(LC 7)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
A-B=-362/578, B-C=-280/601, C-D=-334/607, D-E=-291/500
BOT CHORD
A-F=-437/251
WEBS
C-F=-264/137, D-F=-352/197

NOTES- (11)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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
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) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) E.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=275, E=260.
9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	E01	GABLE	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:48 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-DUzX9bzUU8zsI7oWNDjDxcvFK5nvDt1UUNwiutzSBFn

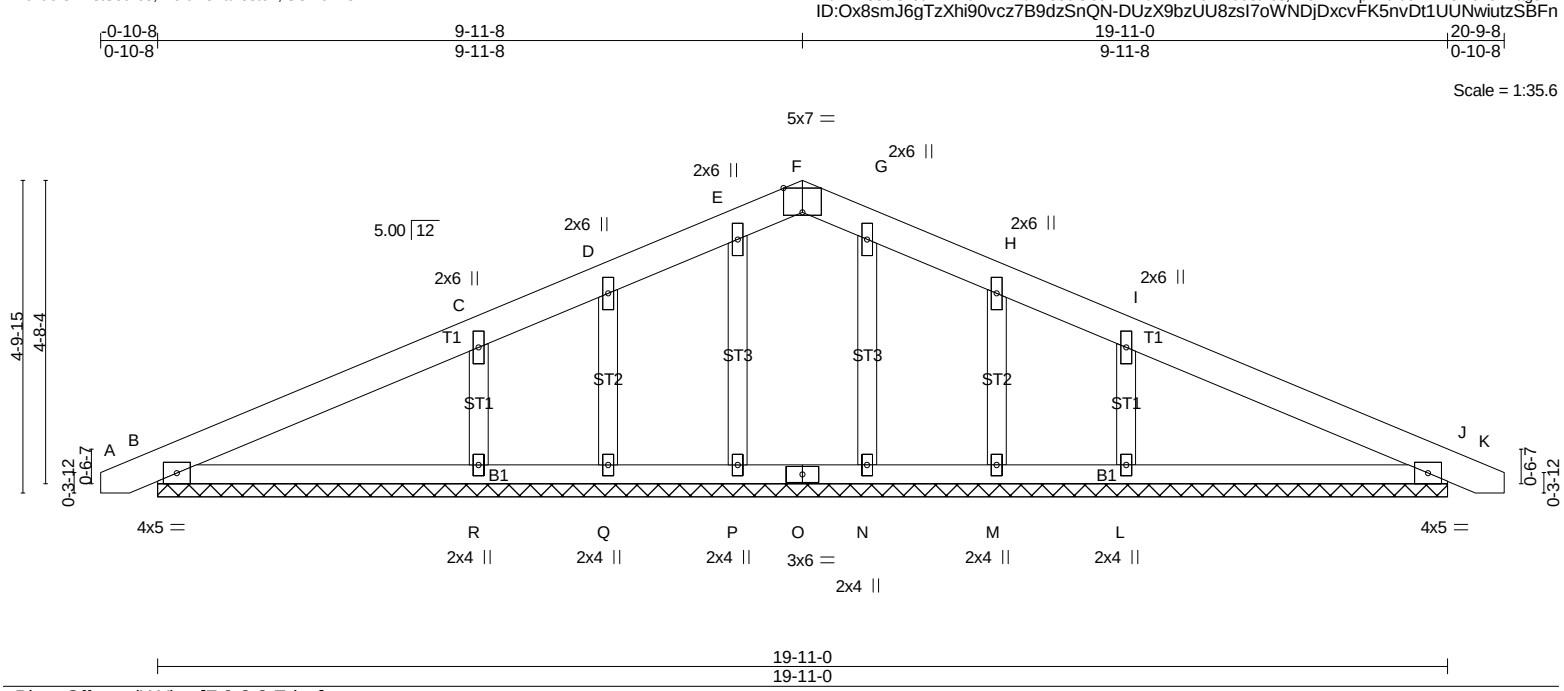


Plate Offsets (X,Y)-- [F:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.16	Vert(LL)	0.00	K	n/r	120	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.19	Vert(TL)	0.01	K	n/r	90		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.10	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 109 lb	FT = 20%

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

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

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

REACTIONS. All bearings 19-11-0.
(lb) - Max Horz
B= -91(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) P, Q, N, M except B=-112(LC 7), R=-257(LC 7), L=-255(LC 8), J=-135(LC 8)
Max Grav
All reactions 250 lb or less at joint(s) F, B, P, Q, N, M, J except R=401(LC 1), L=401(LC 1)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
C-R=-299/344, I-L=-299/344

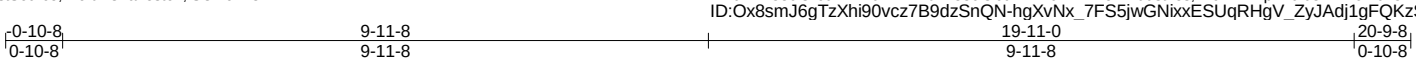
NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P, Q, N, M except (jt=lb) B=112, R=257, L=255, J=135.
9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

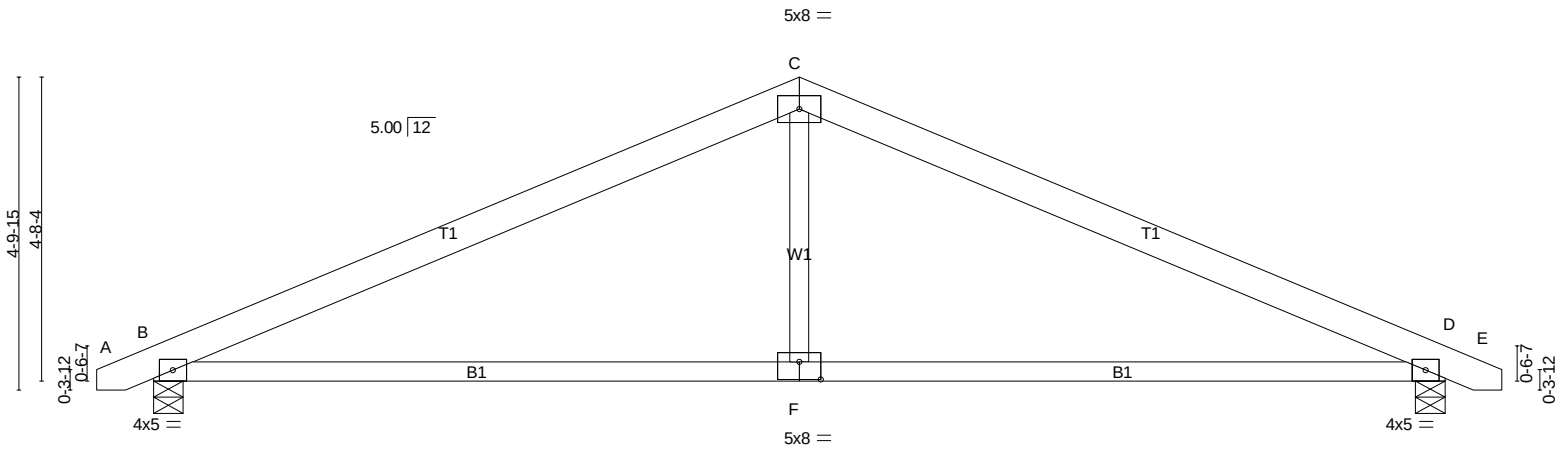
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	E02	COMMON	8	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:49 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-hgXvNx_7FS5jwGNixxESUqRHgV_ZyJAdj1gFQKzSBFm



Scale = 1:35.5



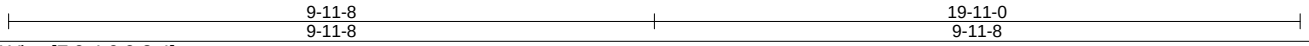


Plate Offsets (X,Y)-- [F:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.76	Vert(LL)	-0.16	D-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.74	Vert(TL)	-0.45	B-F	>521	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(TL)	0.04	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 91 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-2-2 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 9-2-5 oc bracing.

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

REACTIONS. (lb/size)
B = 831/0-5-8 (min. 0-1-8)
D = 831/0-5-8 (min. 0-1-8)
Max Horz
B = -91(LC 8)
Max Uplift
B = -406(LC 7)
D = -406(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-1195/665, C-D=-1195/665
BOT CHORD
B-F=-436/1019, D-F=-436/1019
WEBS
C-F=0/452

NOTES- (8)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=406, D=406.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

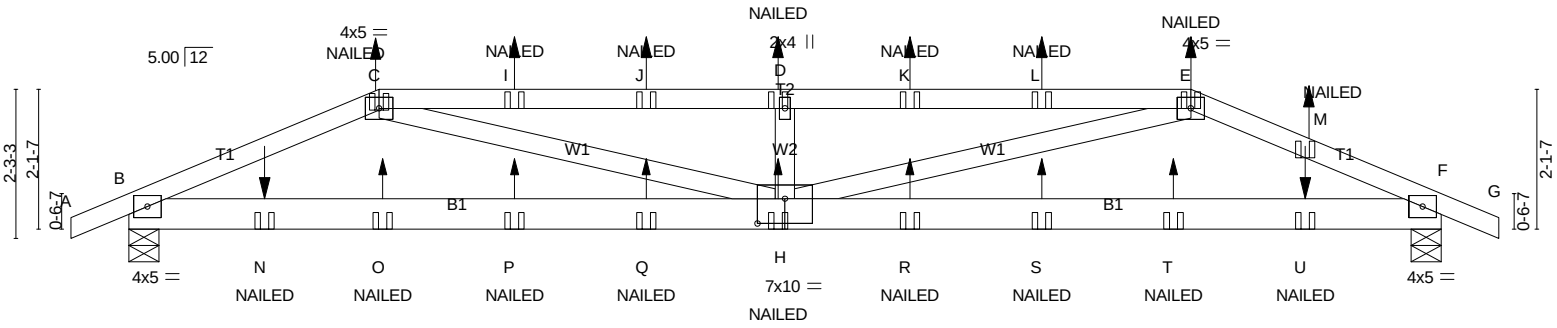
LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	E04	Hip Girder	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:49 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-hgXvNx_7FS5jwGNixxESUqRI?V2eyFEdj1gFQKzSBFm

Scale = 1:35.0



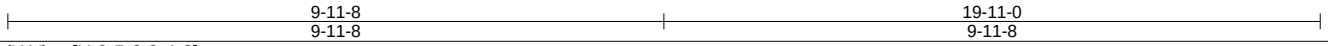


Plate Offsets (X,Y)-- [H:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.68	Vert(LL)	0.20	H	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.48	Vert(TL)	-0.27	B-H	>849	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(TL)	0.03	F	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 101 lb	FT = 20%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-11-8 oc purlins, except
2-0-0 oc purlins (3-4-5 max.): C-E.
BOT CHORD
Rigid ceiling directly applied or 7-11-13 oc bracing.

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

REACTIONS. (lb/size)
B = 808/0-5-8 (min. 0-1-8)
F = 795/0-5-8 (min. 0-1-8)
Max Horz
B = -46(LC 6)
Max Uplift
B = -537(LC 5)
F = -524(LC 6)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-1314/960, C-I=-2165/1458, I-J=-2165/1458, D-J=-2165/1458, D-K=-2165/1458, K-L=-2165/1458, E-L=-2165/1458, E-M=-1269/960, F-M=-1301/955
BOT CHORD
B-N=-816/1157, N-O=-816/1157, O-P=-816/1157, P-Q=-816/1157, H-Q=-816/1157, H-R=-816/1148, R-S=-816/1148, S-T=-816/1148, T-U=-816/1148, F-U=-816/1148
WEBS
C-H=-585/1092, D-H=-369/463, E-H=-582/1089

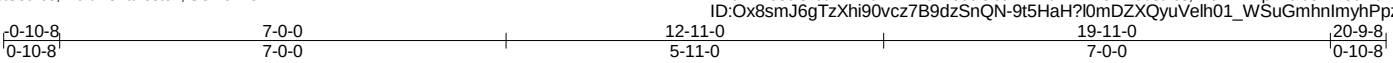
NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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=537, F=524.
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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) "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.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-E=-60, E-G=-60, B-F=-20
Concentrated Loads (lb)
Vert: C=11(B) E=11(B) H=1(B) D=11(B) I=11(B) J=11(B) K=11(B) L=11(B) M=16(B) N=-5(B) O=1(B) P=1(B) Q=1(B) R=1(B) S=1(B) T=1(B) U=-5(B)

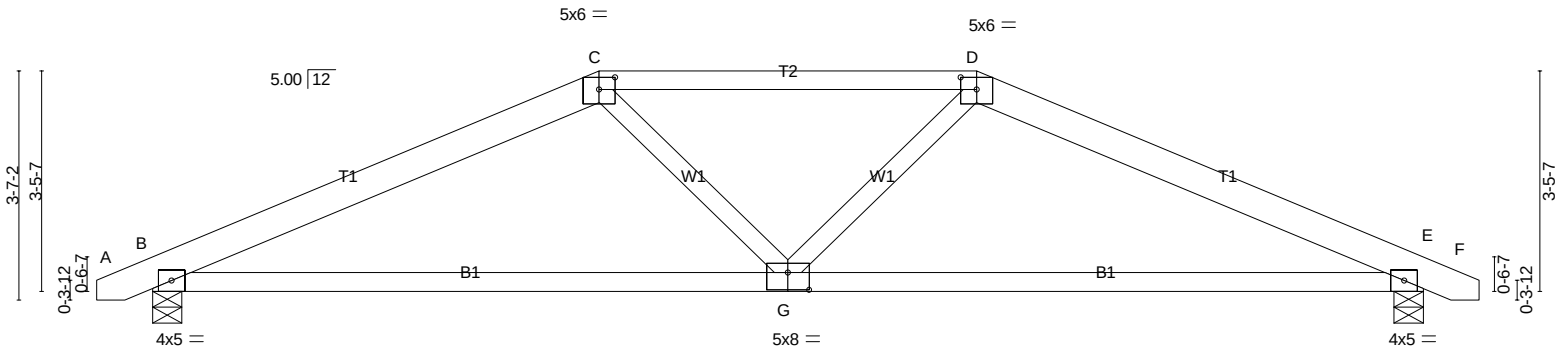
Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	E05	HIP	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:50 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-9t5HaH?l0mDZXQyuVelh01_WSuGmhnImyhPpzmzSBFI



Scale = 1:36.1



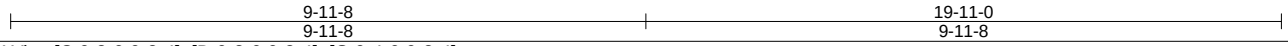


Plate Offsets (X,Y)-- [C:0-3-0,0-2-4], [D:0-3-0,0-2-4], [G:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.50	Vert(LL)	-0.18	B-G	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	1.00	Vert(TL)	-0.49	B-G	>477	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.04	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 91 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T2: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-8-1 oc purlins, except
2-0-0 oc purlins (4-5-15 max.): C-D.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing.

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

REACTIONS. (lb/size)
B = 831/0-5-8 (min. 0-1-8)
E = 831/0-5-8 (min. 0-1-8)
Max Horz
B = -68(LC 8)
Max Uplift
B = -377(LC 7)
E = -377(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-1294/736, C-D=-1231/706, D-E=-1294/736
BOT CHORD
B-G=-534/1122, E-G=-536/1122
WEBS
C-G=0/306, D-G=0/306

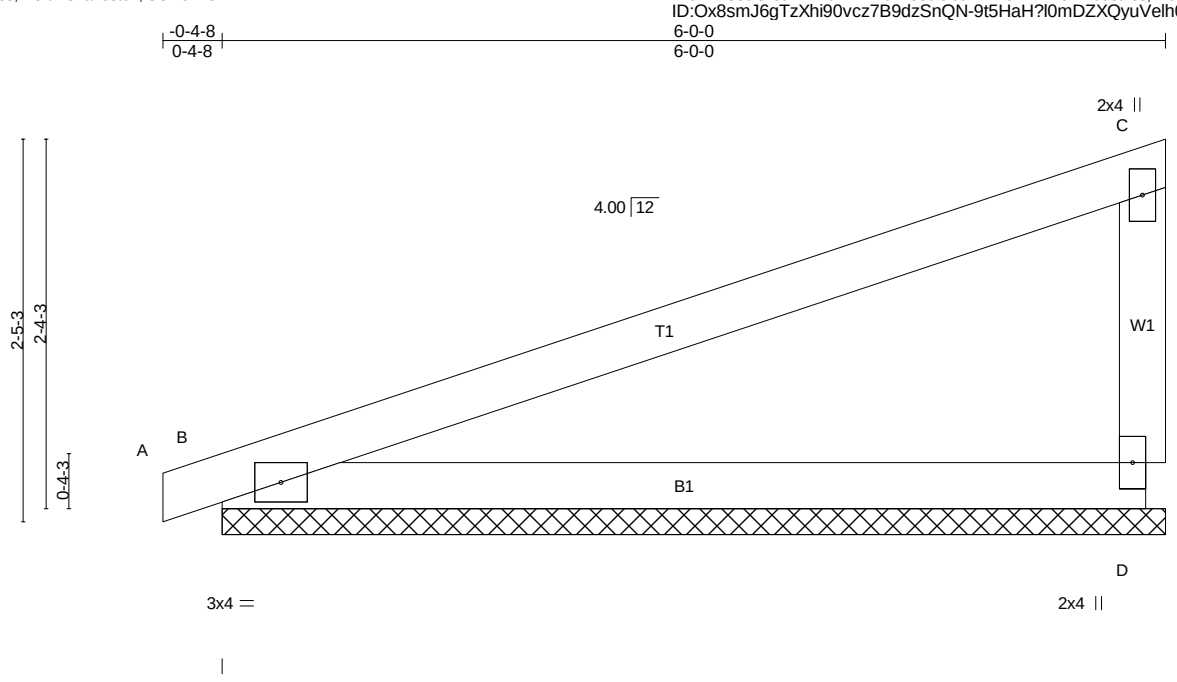
NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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=377, E=377.
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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J01	GABLE	3	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:50 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-9t5HaH?l0mDZXQyuVelh01_RDuPVho6myhPpzmzSBFI



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.78	Vert(LL)	0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.44	Vert(TL)	0.02	A	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 21 lb	FT = 20%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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 = 233/6-0-0 (min. 0-1-8)
B = 257/6-0-0 (min. 0-1-8)
Max Horz
B = 143(LC 6)
Max Uplift
D = -128(LC 7)
B = -138(LC 5)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
C-D=-175/288

NOTES- (10)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=128, B=138.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J02	Monopitch	20	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:50 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-9t5HaH?l0mDZXQyuVelh01_XquQhho6myhPpzmzSBFI

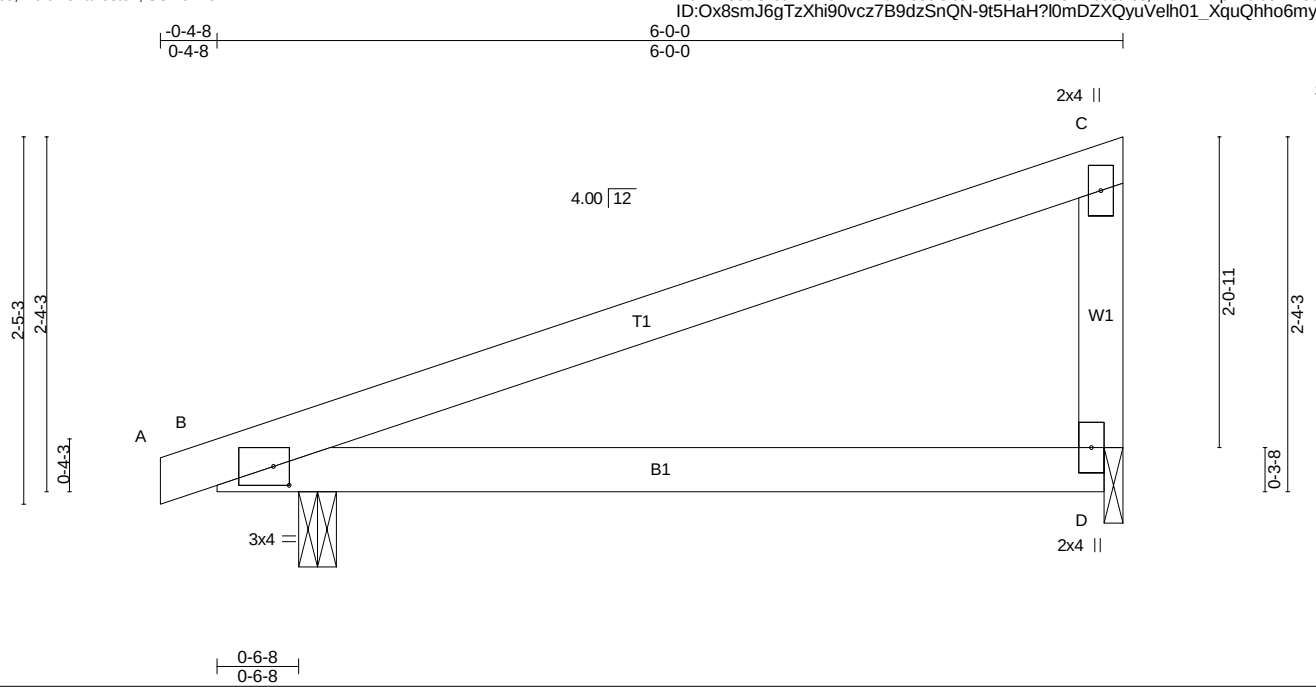


Plate Offsets (X,Y)-- [B:0-1-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.42	Vert(LL)	0.09	D-H	>813	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.36	Vert(TL)	-0.06	D-H	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	B	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)							Weight: 21 lb	FT = 20%

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

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

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

REACTIONS. (lb/size)
B = 318/0-3-0 (min. 0-1-8)
D = 173/0-1-8 (min. 0-1-8)
Max Horz
B = 137(LC 5)
Max Uplift
B = -291(LC 5)
D = -181(LC 5)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-329/857
BOT CHORD
B-H=-1065/436

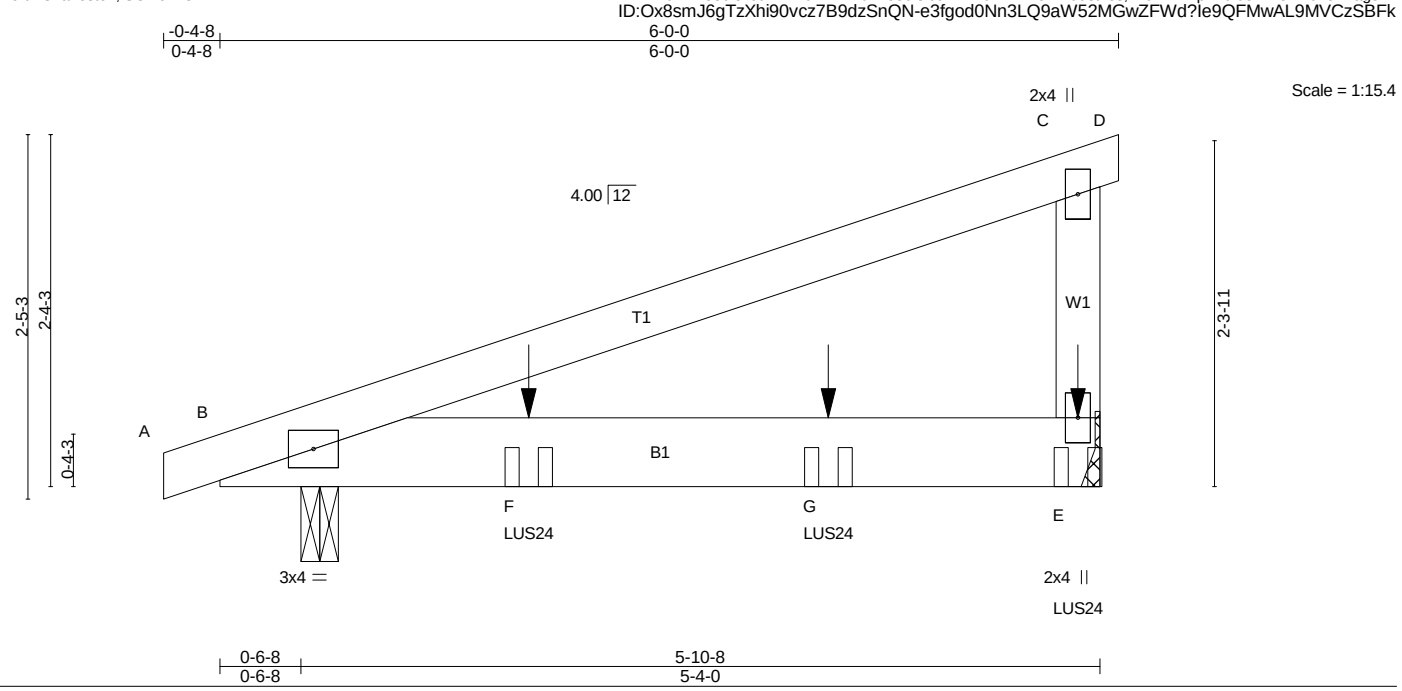
NOTES- (9)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) 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.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=291, D=181.
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.
9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J03	Monopitch Girder	4	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:51 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-e3fgod0Nn3LQ9aW52MGwZFWd?le9QFMwAL9MVCzSBFk



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.71	Vert(LL)	0.15	B-E	>439	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.86	Vert(TL)	-0.17	B-E	>400	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 26 lb	FT = 20%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 8-10-14 oc bracing.

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

REACTIONS. (lb/size)
E = 863/Mechanical
B = 572/0-3-0 (min. 0-1-8)
Max Horz
B = 140(LC 3)
Max Uplift
E = -764(LC 3)
B = -479(LC 3)

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

NOTES- (11)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left exposed ; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=764, B=479.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 5-8-12 to connect truss(es) D02 (1 ply 2x6 SP), D03 (1 ply 2x6 SP) to front face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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=-20, B-E=-20
Concentrated Loads (lb)
Vert: E=-303(F) F=-347(F) G=-303(F)

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J04	Monopitch	40	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:51 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-e3fgod0Nn3LQ9aW52MGwZFWd?lghQFMwAL9MVCzSBFk

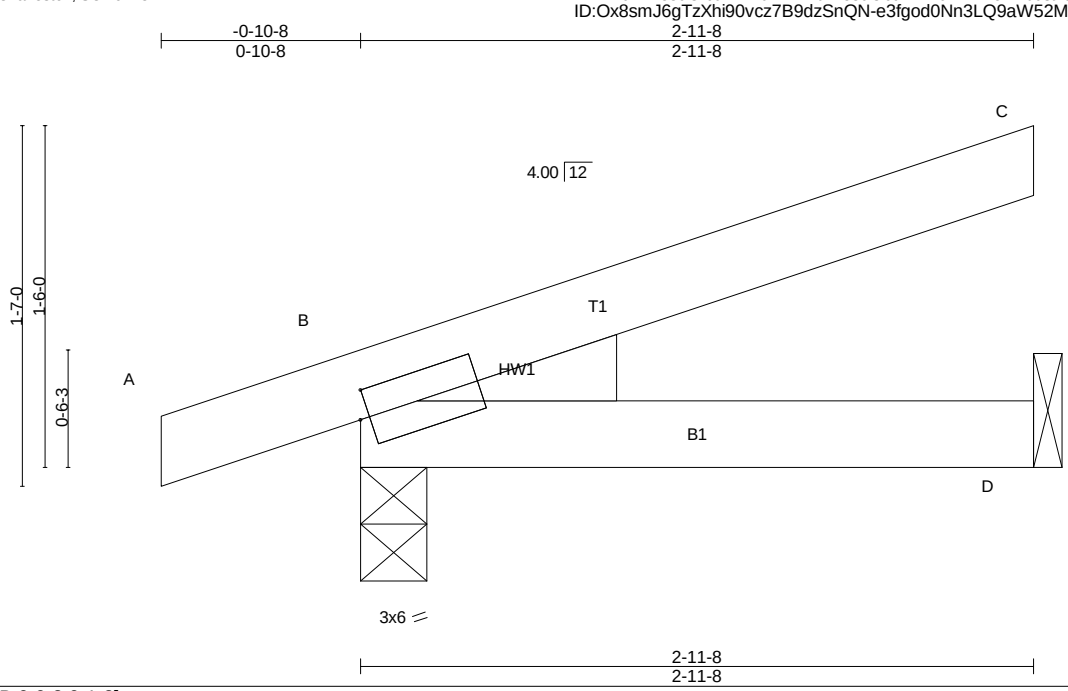


Plate Offsets (X,Y)-- [B:0-0-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.71	Vert(LL)	-0.02	D-G	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.76	Vert(TL)	-0.04	D-G	>873	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	B	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)							Weight: 12 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 2-11-8 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 9-8-4 oc bracing.

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

REACTIONS. (lb/size)
B = 167/0-3-8 (min. 0-1-8)
D = 111/Mechanical
Max Horz
B = 81(LC 5)
Max Uplift
B = -110(LC 5)
D = -85(LC 8)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-565/281
BOT CHORD
B-D=-396/176

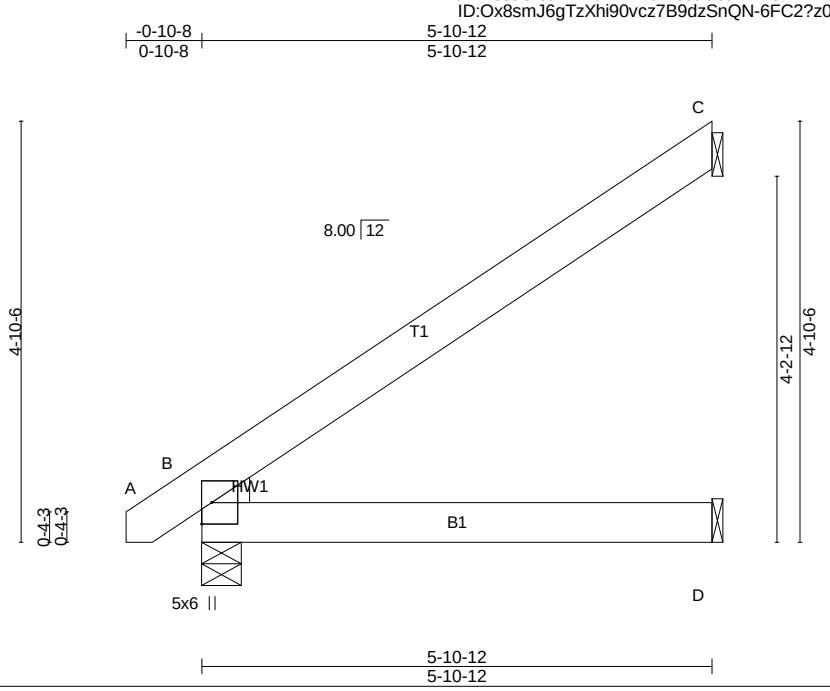
NOTES- (8)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=110.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J07	JACK-OPEN	19	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:52 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-6FC2?z0?YNTHnk5Hc3n96S3vui9F9ic3P_uv1ezSBFj



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.32	Vert(LL)	-0.02	B-D	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.16	Vert(TL)	-0.04	B-D	>999	180		
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)							Weight: 34 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-10-12 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 = 163/Mechanical
B = 286/0-5-8 (min. 0-1-8)
D = 56/Mechanical
Max Horz
B = 283(LC 7)
Max Uplift
C = -248(LC 7)
B = -87(LC 7)
Max Grav
C = 163(LC 1)
B = 286(LC 1)
D = 112(LC 2)

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

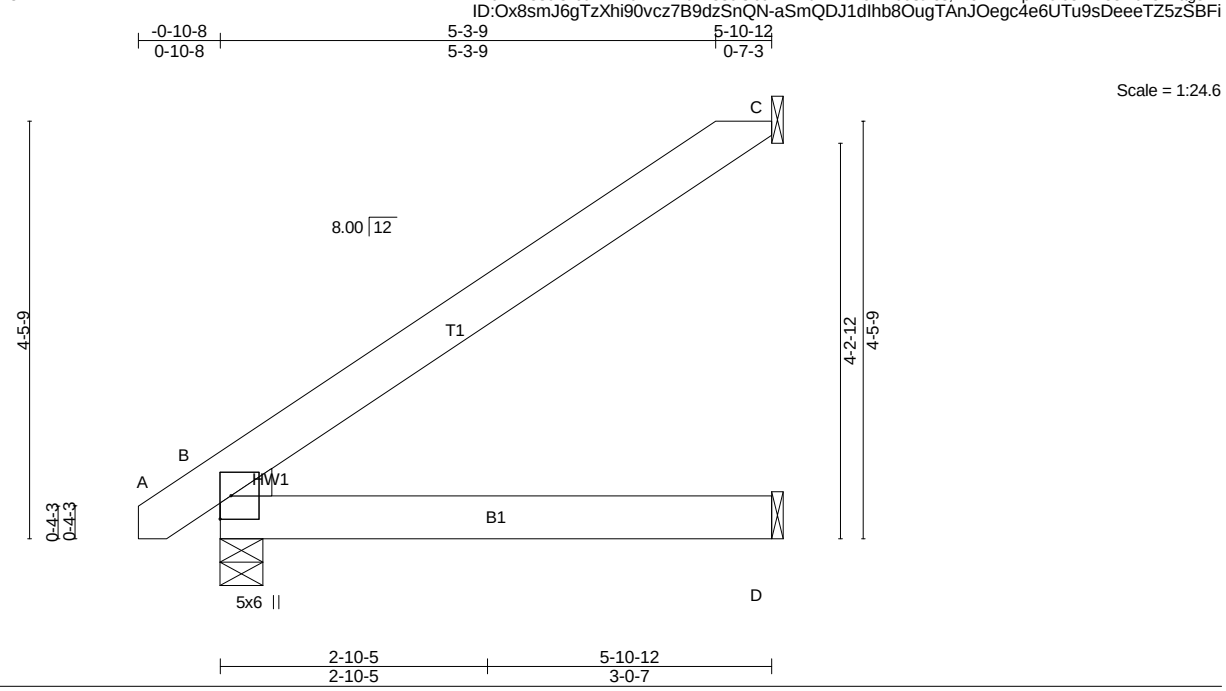
NOTES- (8)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B except (jt=lb) C=248.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J08	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:53 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-aSmQDJ1dIhb8OugTAnJOegc4e6UTu9sDeeeTZ5zSBFi



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.32	Vert(LL)	-0.02	B-D	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.16	Vert(TL)	-0.04	B-D	>999	180		
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)							Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-10-12 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 = 163/Mechanical
B = 286/0-5-8 (min. 0-1-8)
D = 56/Mechanical
Max Horz
B = 283(LC 7)
Max Uplift
C = -248(LC 7)
B = -87(LC 7)
Max Grav
C = 163(LC 1)
B = 286(LC 1)
D = 112(LC 2)

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

NOTES- (8)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B except (jt=lb) C=248.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J09	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:53 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-aSmQDJ1dIhb8OugTAnJOegc7e6Seu8cDeeeTZ5zSBFi

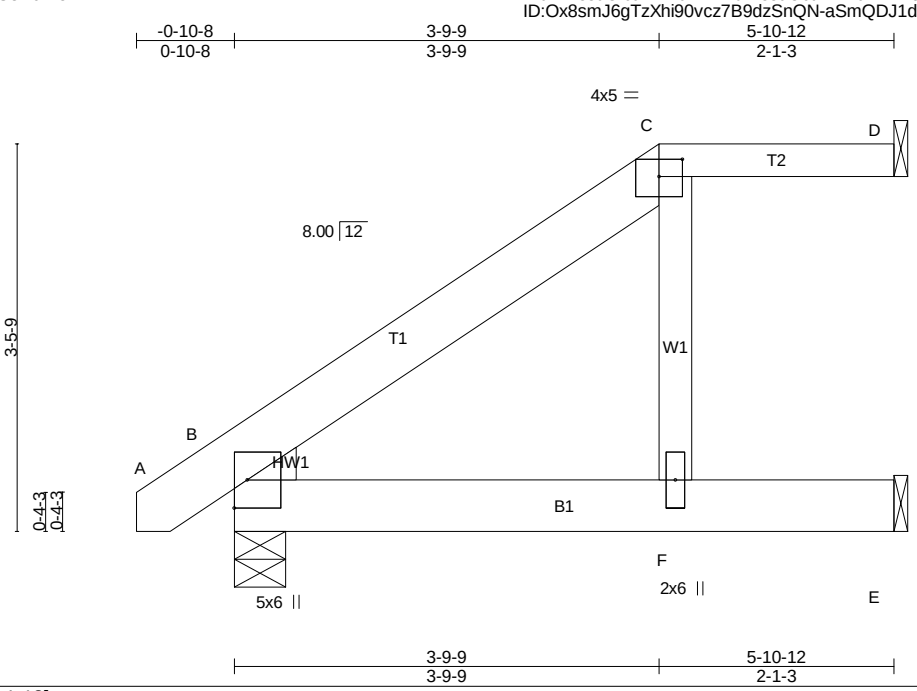


Plate Offsets (X,Y)-- [C:0-2-8,0-1-13]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plates Increase	1.15	TC	0.12	Vert(LL)	0.04	B-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.28	Vert(TL)	-0.06	B-F	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.04	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 35 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
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-10-12 oc purlins, except
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 = 61/Mechanical
B = 286/0-5-8 (min. 0-1-8)
E = 158/Mechanical
Max Horz
B = 203(LC 7)
Max Uplift
D = -65(LC 5)
B = -133(LC 7)
E = -95(LC 7)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
C-F=-154/272

NOTES- (11)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E except (jt=lb) B=133.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J10	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:53 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-aSmQDJ1dIhb8OugTAnJOegc5b6Seu8eDeeeTZ5zSBFi

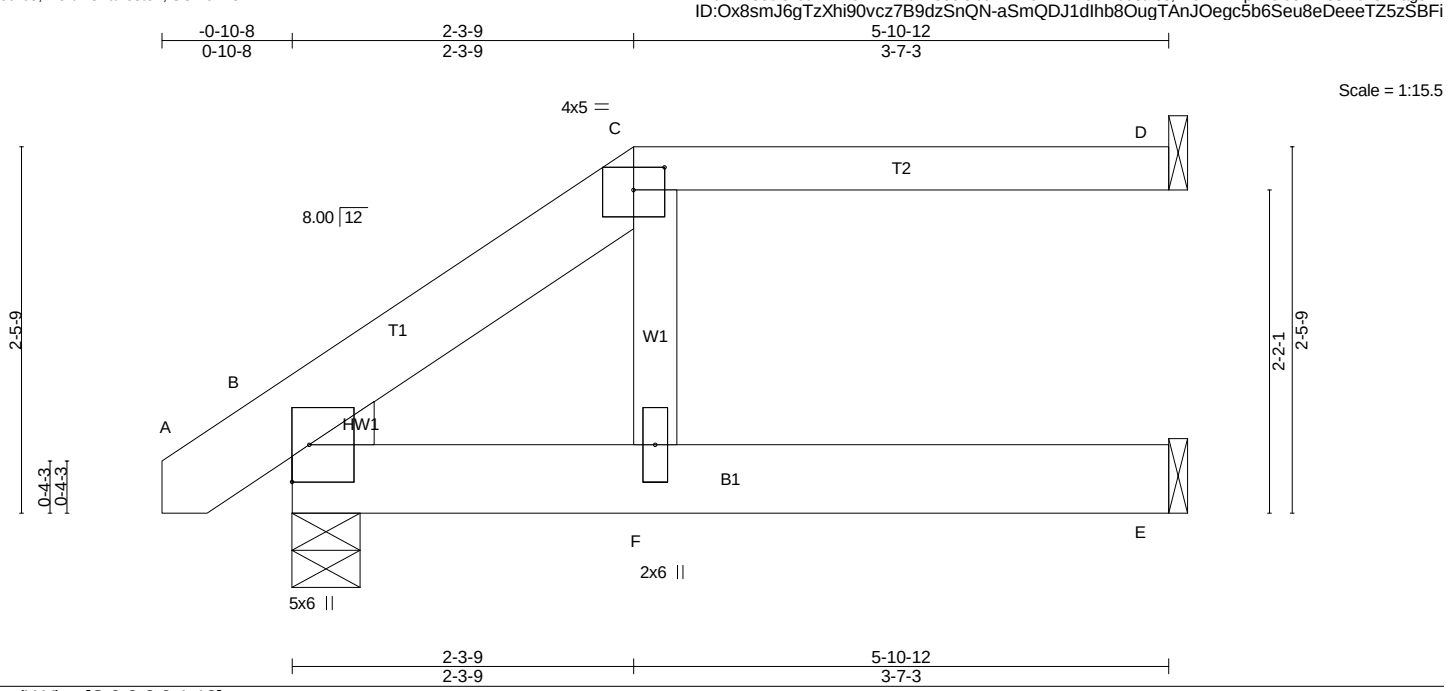


Plate Offsets (X,Y)-- [C:0-2-8,0-1-13]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.25	Vert(LL)	0.04	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.28	Vert(TL)	-0.06	E-F	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.05	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 32 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
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-10-12 oc purlins, except
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 = 106/Mechanical
B = 286/0-5-8 (min. 0-1-8)
E = 113/Mechanical
Max Horz
B = 138(LC 7)
Max Uplift
D = -113(LC 5)
B = -148(LC 7)
E = -26(LC 7)
Max Grav
D = 106(LC 1)
B = 286(LC 1)
E = 131(LC 2)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
C-F=-145/262

NOTES- (11)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) D=113, B=148.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J11	HALF HIP GIRDER	2	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:54 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-2eKoQf2F3_j?02FgkUqdBt8DNWqwdcrMsIN06XzSBFh

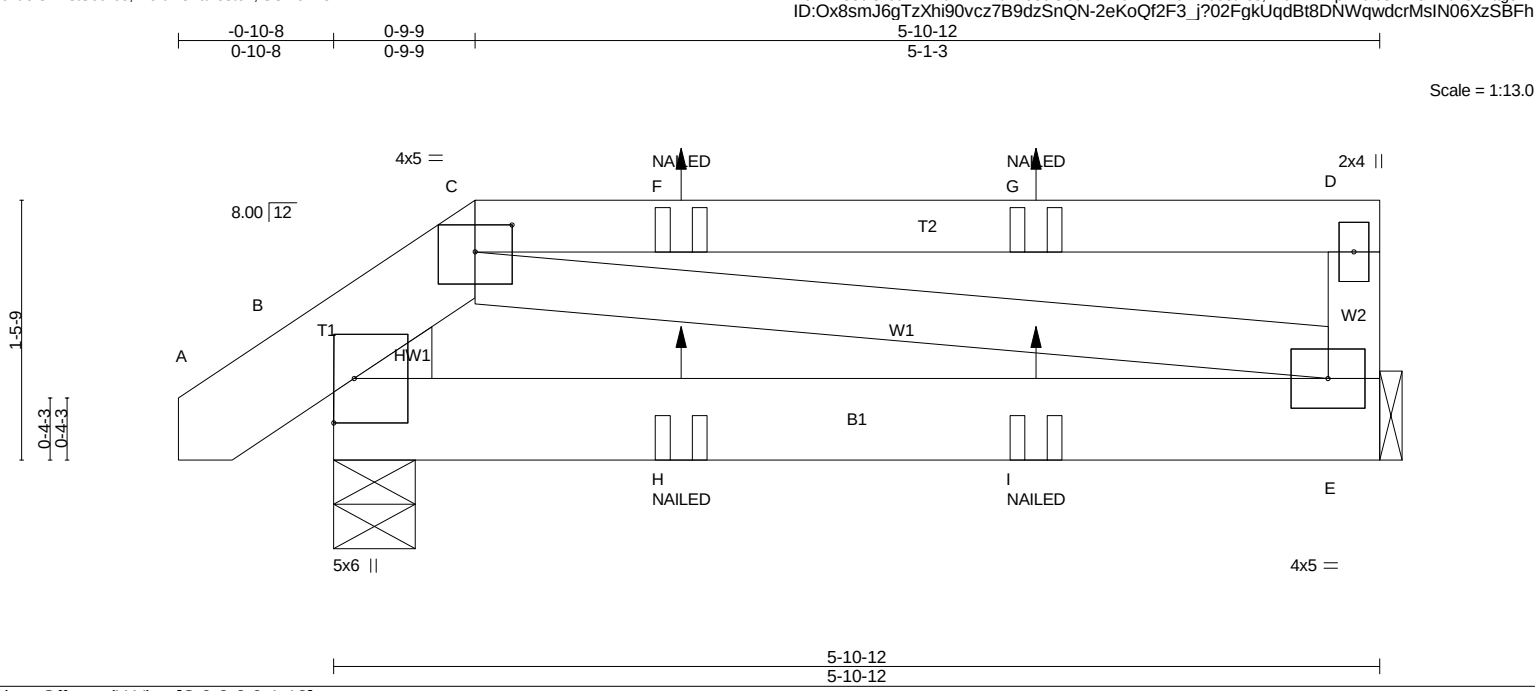


Plate Offsets (X,Y)-- [C:0-2-8,0-1-13]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.44	Vert(LL)	-0.01	B-E	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.15	Vert(TL)	-0.03	B-E	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 35 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.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-10-12 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)
E = 177/Mechanical
B = 243/0-5-8 (min. 0-1-8)
Max Horz
B = 75(LC 5)
Max Uplift
E = -149(LC 9)
B = -154(LC 5)

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

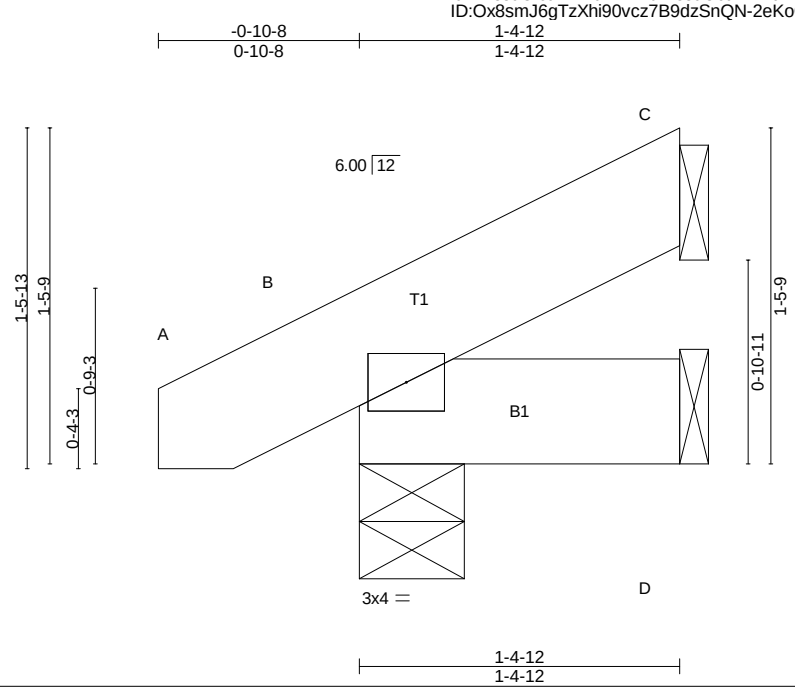
NOTES- (12)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom 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) E=149, B=154.
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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) "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.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, B-E=-20
Concentrated Loads (lb)
Vert: F=33(B) G=33(B) H=7(B) I=7(B)

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J12	JACK-OPEN	4	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:54 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-2eKoQf2F3_j?02FgkUqdBt8J0Ws9dc6MsIN06XzSBFh



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.02	Vert(LL)	-0.00	B	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.01	Vert(TL)	-0.00	B	>999	180		
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)							Weight: 10 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-4-12 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)
B = 112/0-5-8 (min. 0-1-8)
D = 13/Mechanical
C = 27/Mechanical
Max Horz
B = 69(LC 7)
Max Uplift
B = -80(LC 7)
C = -41(LC 7)
Max Grav
B = 112(LC 1)
D = 27(LC 2)
C = 27(LC 1)

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

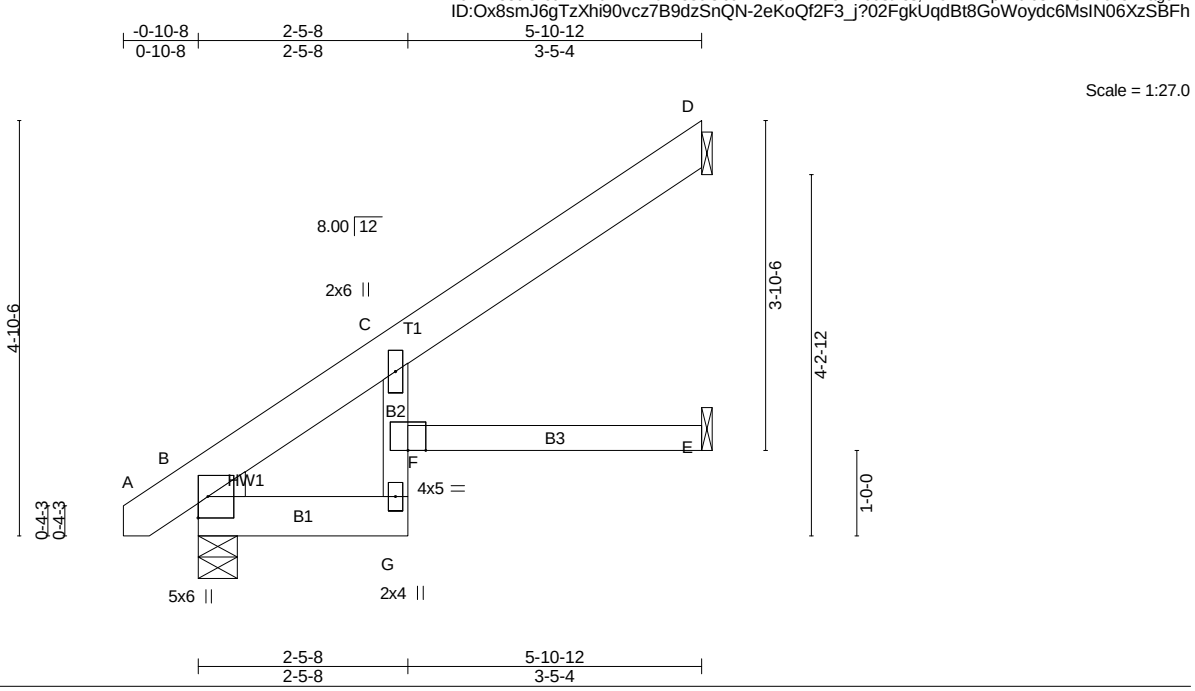
NOTES- (8)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, C.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J13	JACK-OPEN	3	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:54 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-2eKoQf2F3_j?02FgkUqdBt8GoWoydc6MsIN06XzSBFh



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.23	Vert(LL)	0.07	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.28	Vert(TL)	-0.06	E-F	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.03	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B1: 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-10-12 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)

D	=	161/Mechanical
B	=	286/0-5-8 (min. 0-1-8)
E	=	58/Mechanical
Max Horz		
B	=	283(LC 7)
Max Uplift		
D	=	-197(LC 7)
B	=	-87(LC 7)
E	=	-17(LC 7)
Max Grav		
D	=	161(LC 1)
B	=	286(LC 1)
E	=	79(LC 2)

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

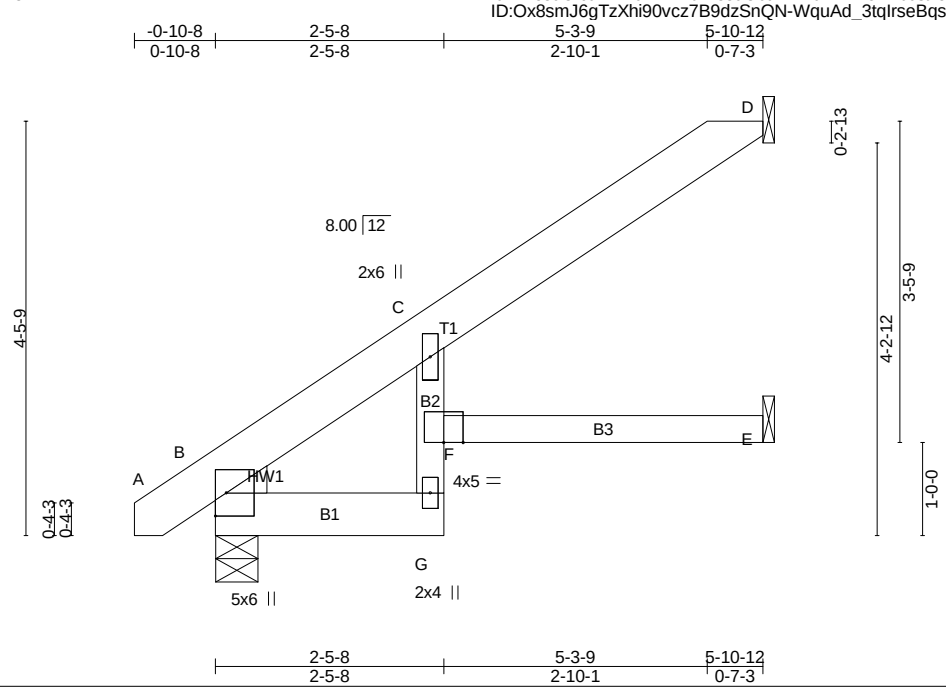
NOTES- (8)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, E except (jt=lb) D=197.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J14	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:55 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-WquAd_3tqIrseBqsHBLsj5hRYv8BM3LV5y7ZezzSBFg



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.23	Vert(LL)	0.07	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.28	Vert(TL)	-0.06	E-F	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.03	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B1: 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-10-12 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)
D = 161/Mechanical
B = 286/0-5-8 (min. 0-1-8)
E = 58/Mechanical
Max Horz
B = 283(LC 7)
Max Uplift
D = -197(LC 7)
B = -87(LC 7)
E = -17(LC 7)
Max Grav
D = 161(LC 1)
B = 286(LC 1)
E = 79(LC 2)

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

NOTES- (8)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, E except (jt=lb) D=197.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J15	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:55 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-WquAd_3tqIrseBqsHBLsj5hTsv3aM2zV5y7ZezzSBFg

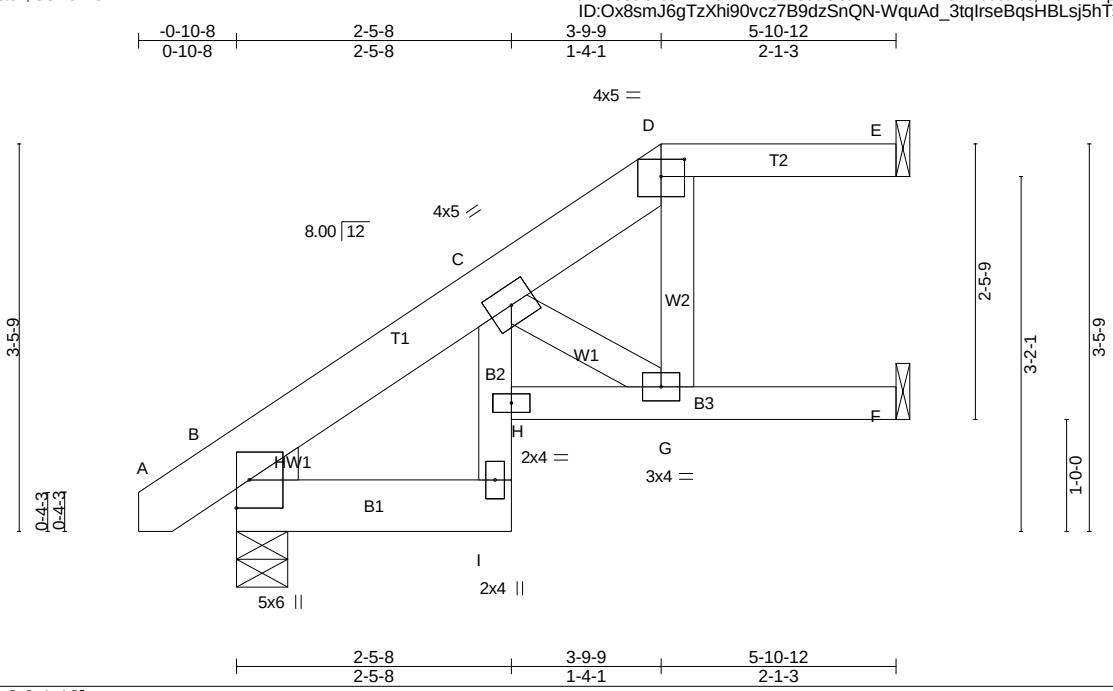


Plate Offsets (X,Y)-- [D:0-2-8,0-1-13]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.08	Vert(LL)	0.10	G-H	>642	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.64	Vert(TL)	-0.13	G-H	>536	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.10	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 36 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T2: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B1: 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-10-12 oc purlins, except
2-0-0 oc purlins: D-E.
BOT CHORD
Rigid ceiling directly applied or 9-5-12 oc bracing.

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

REACTIONS. (lb/size)
E = 61/Mechanical
B = 286/0-5-8 (min. 0-1-8)
F = 158/Mechanical
Max Horz
B = 203(LC 7)
Max Uplift
E = -65(LC 5)
B = -133(LC 7)
F = -95(LC 7)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD
G-H=-262/196
WEBS
C-G=-222/296

NOTES- (11)
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 B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, F except (jt=lb) B=133.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J16	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:55 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-WquAd_3tqIrseBqsHBLsj5hSFv9nM2vV5y7ZezzSBFg

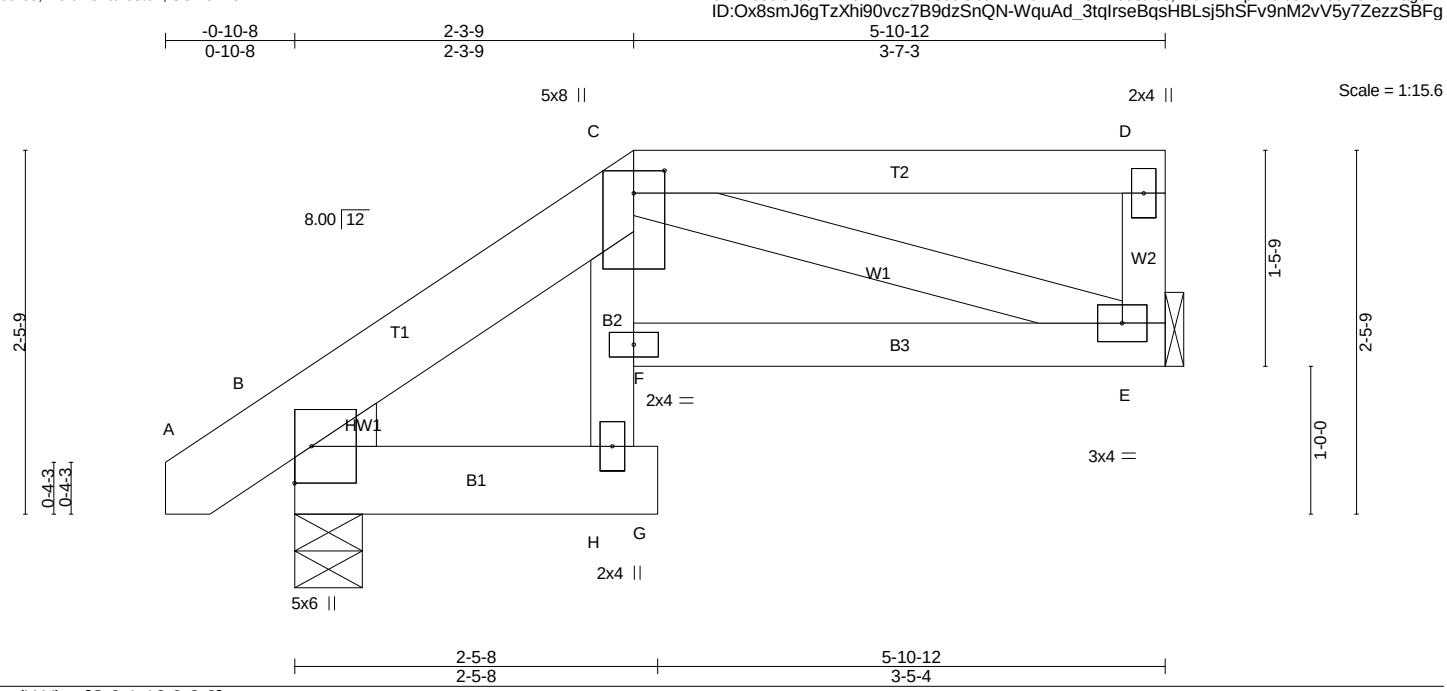


Plate Offsets (X,Y)-- [C:0-1-13,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.18	Vert(LL)	-0.01	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.24	Vert(TL)	-0.02	E-F	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.01	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T2: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B1: 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD
Rigid ceiling directly applied or 9-11-5 oc bracing. Except:
10-0-0 oc bracing: F-H

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

REACTIONS. (lb/size)
E = 218/Mechanical
B = 287/0-5-8 (min. 0-1-8)
Max Horz
B = 139(LC 7)
Max Uplift
E = -129(LC 7)
B = -165(LC 7)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-282/178
BOT CHORD
E-F=-350/310
WEBS
C-E=-269/312

NOTES- (10)

1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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) E=129, B=165.
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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J17	JACK-CLOSED	4	1	Job Reference (optional)

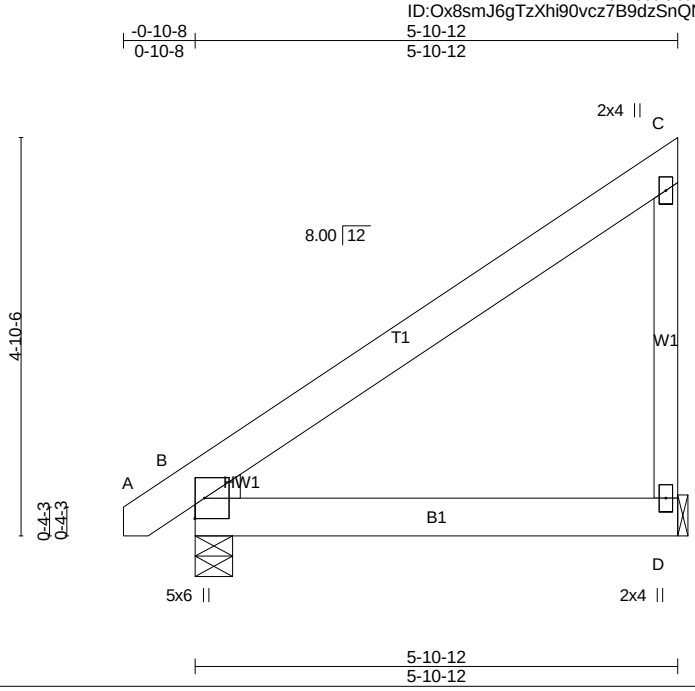


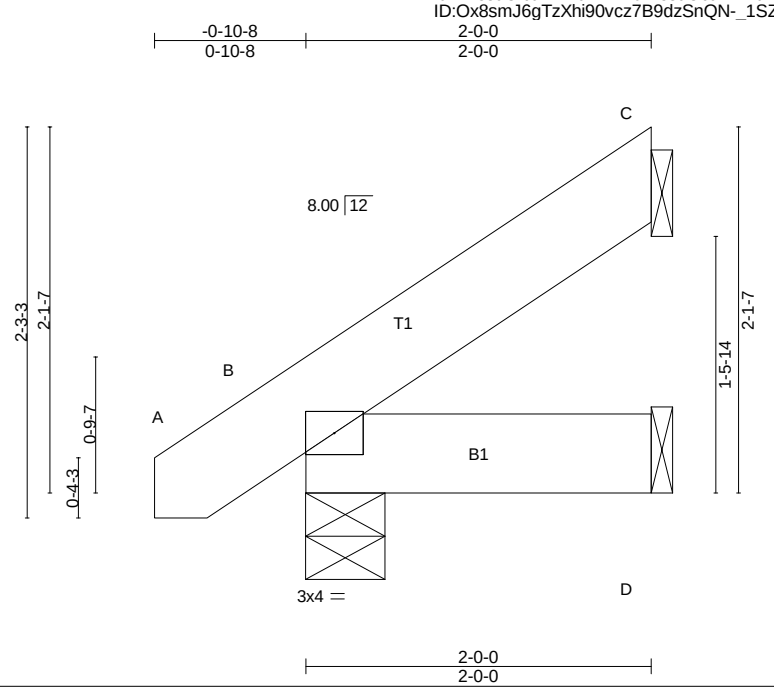
Plate Offsets (X,Y)-- [B:0-3-0,0-1-6]

LOADING (psf)		**SPACING-**	2-0-0
TCLL	20.0	Plates Increase	1.15
TCDL	10.0	Lumber Increase	1.15
BCLL	0.0 *	Rep Stress Incr	YES
BCDL	10.0	Code IRC2009/TPI2007	

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J18	JACK-OPEN	7	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:56 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-_1SZrK4WbczjFLP2rvs5GIEfMJYU5WbfKcs7AQzSBFf



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.03	Vert(LL)	-0.00	B	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.02	Vert(TL)	-0.00	B	>999	180		
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)							Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size)
B = 133/0-5-8 (min. 0-1-8)
D = 19/Mechanical
C = 49/Mechanical
Max Horz
B = 122(LC 7)
Max Uplift
B = -69(LC 7)
C = -81(LC 7)
Max Grav
B = 133(LC 1)
D = 39(LC 2)
C = 49(LC 1)

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

NOTES- (8)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, C.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J19	HALF HIP	2	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:57 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-SD0x2g48Mv5atV_FPcNKoWmqsjuZqzroZGcgiszSBFe

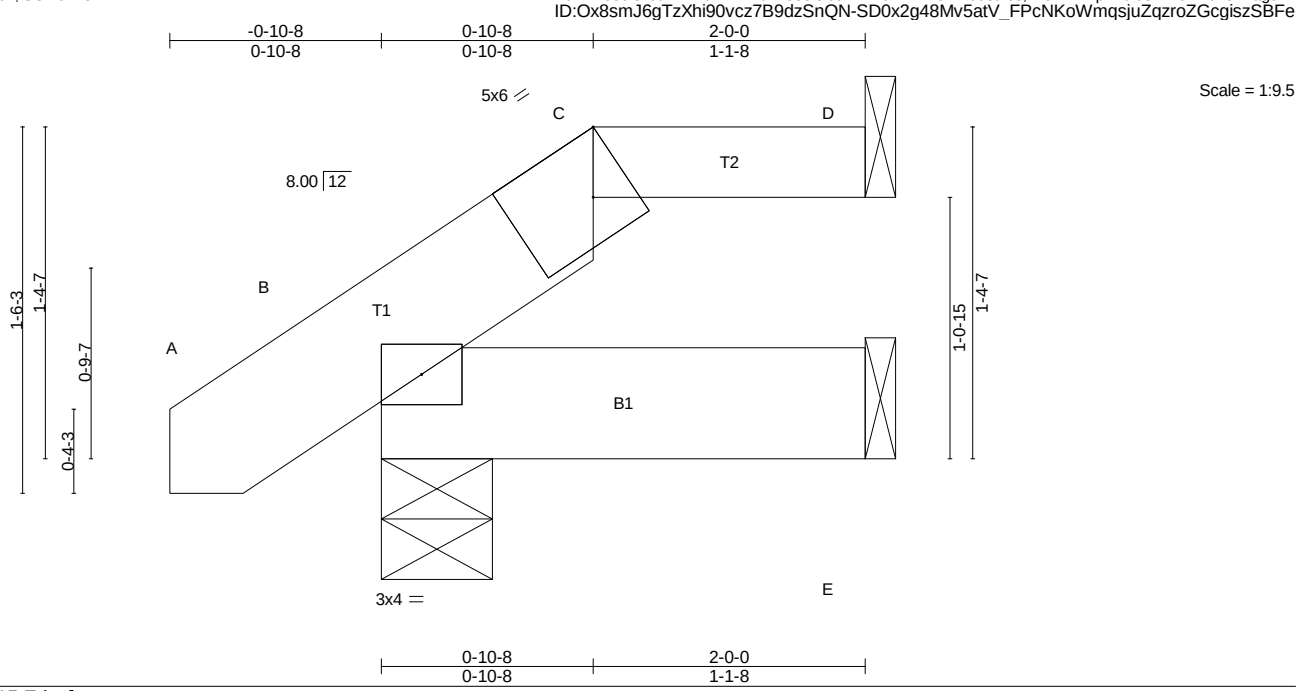


Plate Offsets (X,Y)-- [C:0-1-15,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.05	Vert(LL)	-0.00	B	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.03	Vert(TL)	-0.00	B	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T2: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-0-0 oc purlins, except
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 = 44/Mechanical
B = 133/0-5-8 (min. 0-1-8)
E = 24/Mechanical
Max Horz
B = 82(LC 7)
Max Uplift
D = -41(LC 6)
B = -90(LC 7)
Max Grav
D = 44(LC 1)
B = 133(LC 1)
E = 38(LC 2)

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

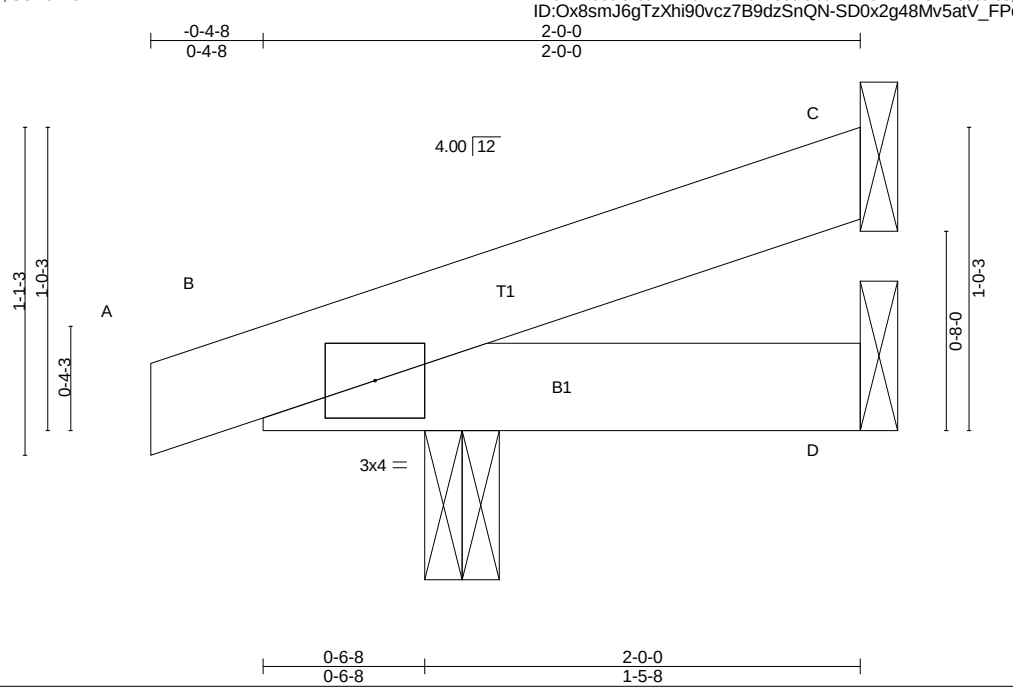
NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, B.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J20	Jack-Open	3	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:57 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-SD0x2g48Mv5atV_FPcNKoWmmGju1qzroZGcgiszSBFe



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.28	Vert(LL)	-0.00	B	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.06	Vert(TL)	-0.00	B-D	>999	180		
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)							Weight: 7 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size)
B = 105/0-3-0 (min. 0-1-8)
D = 20/Mechanical
C = 56/Mechanical
Max Horz
B = 53(LC 5)
Max Uplift
B = -100(LC 5)
D = -23(LC 5)
C = -56(LC 5)
Max Grav
B = 105(LC 1)
D = 39(LC 2)
C = 56(LC 1)

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

NOTES- (8)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, C except (jt=lb) B=100.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J21	Half Hip Girder	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:57 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-SD0x2g48Mv5atV_FPcNKoWmldjq3qzroZGcgiszSBFe

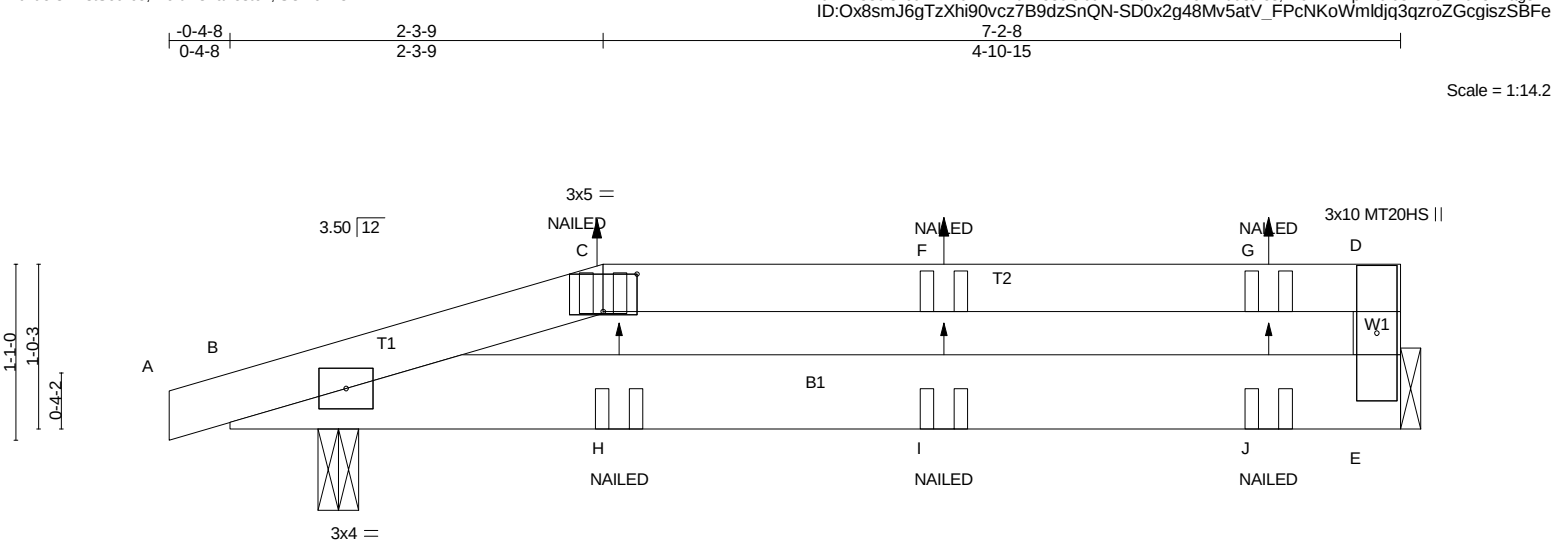


Plate Offsets (X,Y)-- [C:0-2-8,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.38	Vert(LL)	0.04	B-E	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.31	Vert(TL)	-0.06	B-E	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 29 lb	FT = 20%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-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)
E = 269/Mechanical
B = 304/0-3-0 (min. 0-1-8)
Max Horz
B = 54(LC 5)
Max Uplift
E = -269(LC 3)
B = -305(LC 3)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-C=-477/430, C-F=-428/419, F-G=-428/419, D-G=-428/419
BOT CHORD
B-H=-419/428, H-I=-419/428, I-J=-419/428, E-J=-419/428

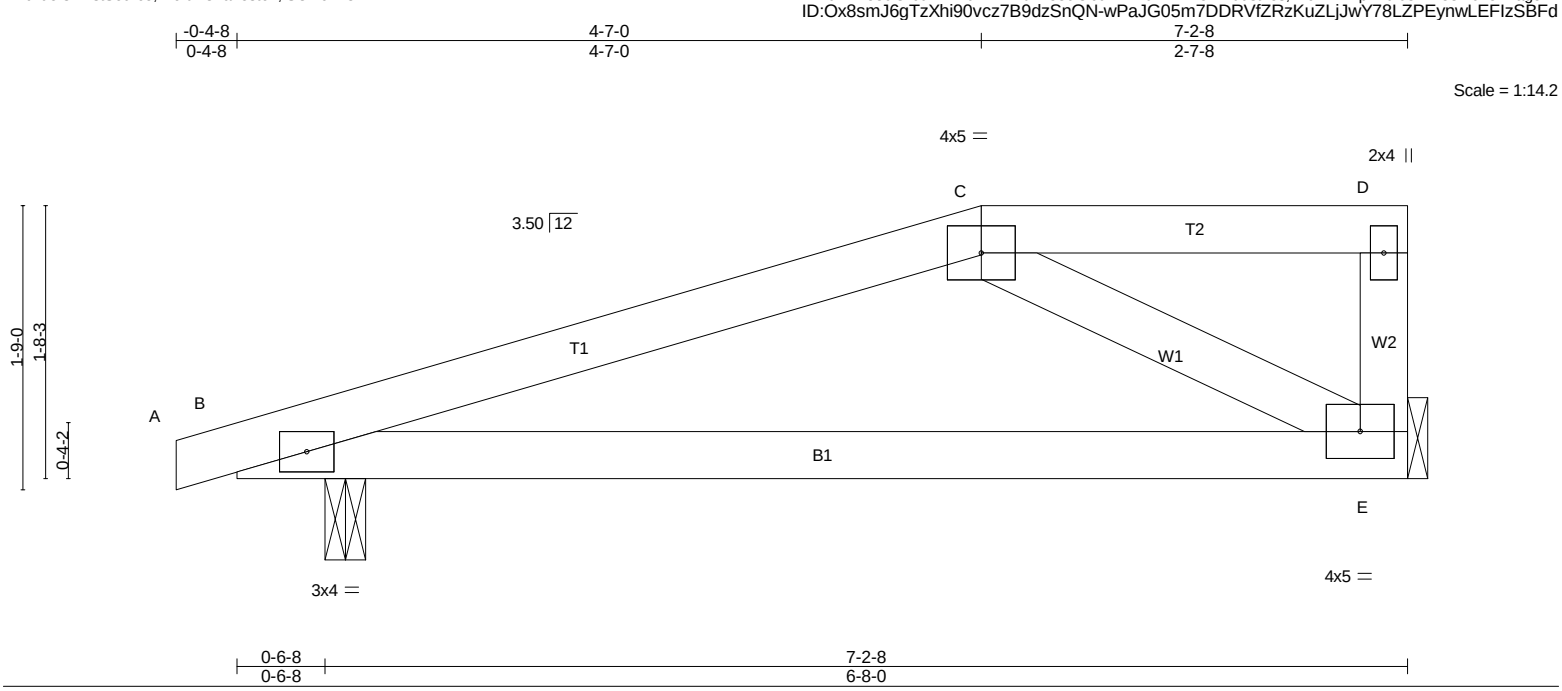
NOTES- (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left exposed ; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) 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) E=269, B=305.
9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) "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.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
14) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, B-E=-20
Concentrated Loads (lb)
Vert: C=4(F) F=4(F) G=4(F) H=0(F) I=0(F) J=0(F)

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J22	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:58 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-wPaJG05m7DDRVfZRzKuZLjJwY78LZPEynwLEFIzSBFd



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.37	Vert(LL)	0.14	E-J	>613	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.44	Vert(TL)	-0.11	E-J	>783	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(TL)	-0.00	B	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)							Weight: 28 lb	FT = 20%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-D.
BOT CHORD
Rigid ceiling directly applied or 7-3-8 oc bracing.

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

REACTIONS. (lb/size)
E = 252/Mechanical
B = 336/0-3-0 (min. 0-1-8)
Max Horz
B = 96(LC 5)
Max Uplift
E = -245(LC 5)
B = -317(LC 5)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-I=-397/890, B-C=-303/422
BOT CHORD
B-J=-831/375, B-E=-461/262
WEBS
C-E=-258/401

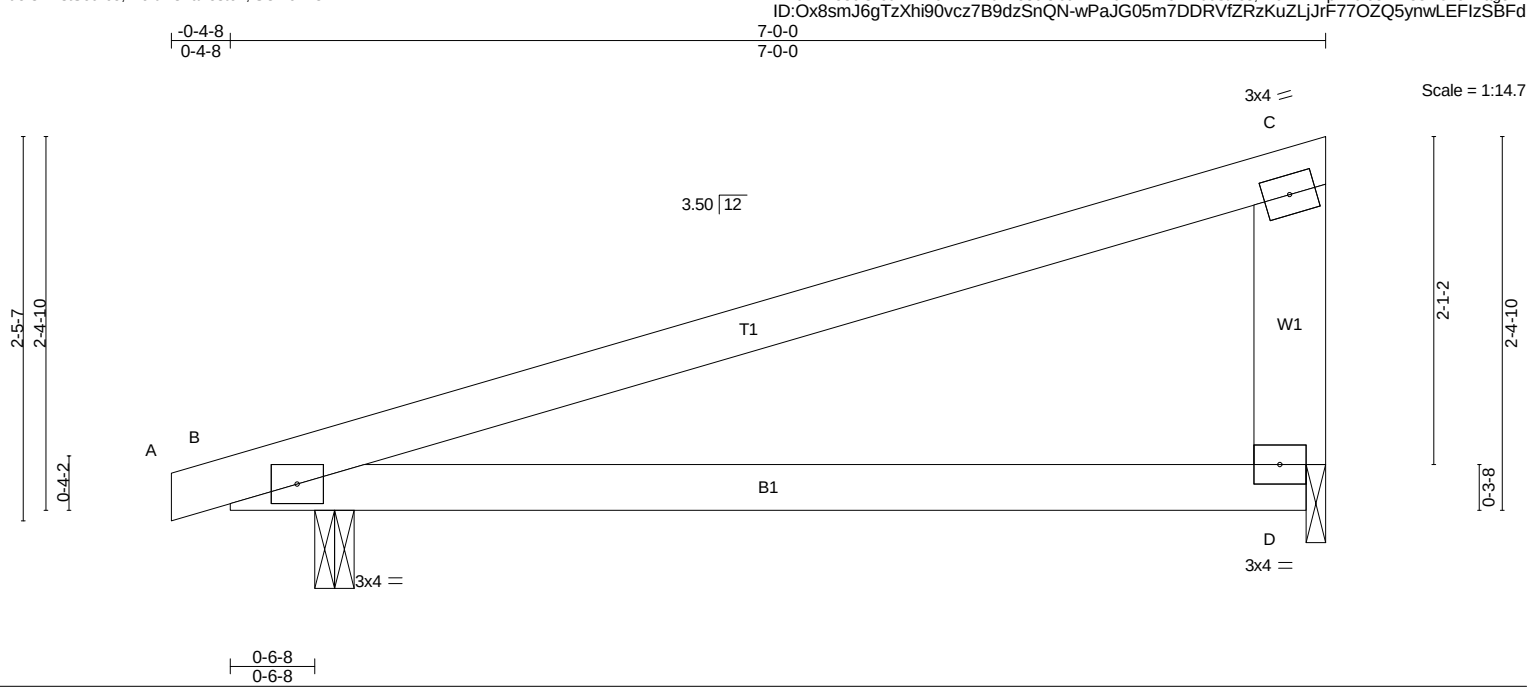
NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=245, B=317.
8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J23	Monopitch	3	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:58 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-wPaJG05m7DDRVfZRzKuZLjJrF77OZQ5ynwLEFIzSBFd



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.64	Vert(LL)	0.15	D-I	>535	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.50	Vert(TL)	0.11	D-I	>741	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	B	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)							Weight: 26 lb	FT = 20%

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

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

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

REACTIONS. (lb/size)
B = 333/0-3-0 (min. 0-1-8)
D = 231/0-1-8 (min. 0-1-8)
Max Horz
B = 137(LC 5)
Max Uplift
B = -303(LC 5)
D = -237(LC 5)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
B-H=-729/1613
BOT CHORD
B-I=-1515/689

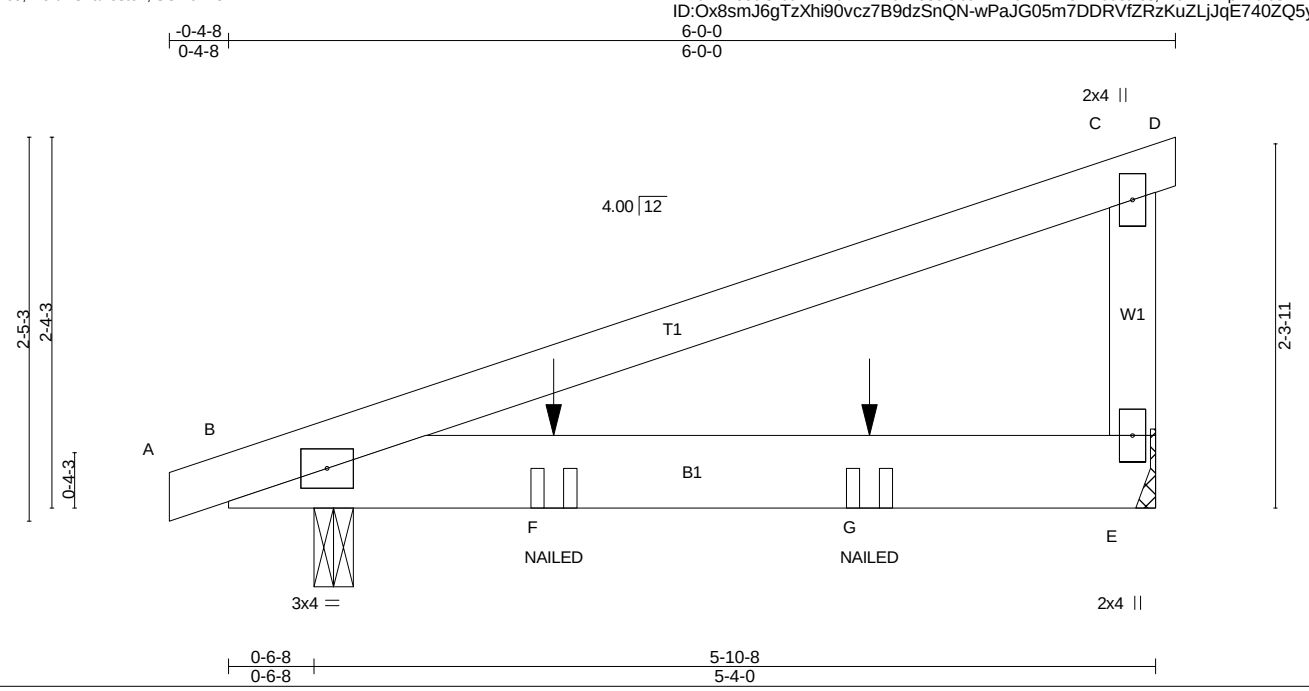
NOTES- (9)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) 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.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=303, D=237.
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.
9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/Master
MASTER	J24	Monopitch Girder	1	1	Job Reference (optional)

Builders FirstSource, North Charleston, SC 29418

Run: 7.530 s Jul 14 2014 Print: 7.530 s Jul 14 2014 MiTek Industries, Inc. Fri Apr 10 08:41:58 2015 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-wPaJG05m7DDRVfZRzKuZLjJqE740ZQ5ynwLEFIzSBFd



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.71	Vert(LL)	0.14	B-E	>497	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.65	Vert(TL)	-0.13	B-E	>518	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 26 lb	FT = 20%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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)
E = 477/Mechanical
B = 487/0-3-0 (min. 0-1-8)
Max Horz
B = 140(LC 3)
Max Uplift
E = -484(LC 3)
B = -457(LC 3)

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

NOTES- (10)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left exposed ; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=484, B=457.
6) 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.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) "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.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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=-20, B-E=-20
Concentrated Loads (lb)
Vert: F=-249(B) G=-232(B)