ENGINEERING BY TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: 2502469_master - H&H/Wayfare/

Site Information:

Project Customer: h and h Project Name: 2502469
Lot/Block: Subdivision:
Model:
Address:
City: State: nc

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014
Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 150 mph
Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-10
Roof Load: 40.0 psf
Floor Load: N/A psf

Mean Roof Height (feet): 25
Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I43319770	A07	10/23/20	35	I43319804	G07	10/23/20
2	I43319771	A08	10/23/20	36	I43319805	G08	10/23/20
3	I43319772	A15	10/23/20	37	I43319806	G09	10/23/20
4	I43319773	A16	10/23/20	38	I43319807	G10	10/23/20
5	I43319774	A17	10/23/20	39	I43319808	G11	10/23/20
6	I43319775	A18	10/23/20	40	I43319809	G12	10/23/20
7	I43319776	A19	10/23/20	41		G13	10/23/20
8	I43319777	A20	10/23/20		I43319811	G14	10/23/20
9	I43319778	B01	10/23/20	43	I43319812	G15	10/23/20
10	I43319779	B02	10/23/20	44	I43319813	G16	10/23/20
11	I43319780	B03	10/23/20	45	I43319814	G17	10/23/20
12	I43319781	C01	10/23/20	46	I43319815	G18	10/23/20
13	I43319782	C02	10/23/20	47	I43319816	H01	10/23/20
14	I43319783		10/23/20	48	I43319817	H02	10/23/20
	I43319784	C04	10/23/20	49	I43319818	H03	10/23/20
16	I43319785	C05	10/23/20	50	I43319819	H04	10/23/20
17	I43319786	D01	10/23/20		I43319820	H05	10/23/20
18	I43319787		10/23/20	52	I43319821	H06	10/23/20
19	I43319788	D03	10/23/20	53	I43319822	J01	10/23/20
20	I43319789	D04	10/23/20	54	I43319823	J05	10/23/20
21	I43319790	D05	10/23/20	55	I43319824	M01	10/23/20
22	I43319791	D06	10/23/20	56	I43319825	M02	10/23/20
23	I43319792	D07	10/23/20	57	I43319826	PB01	10/23/20
	I43319793	D08	10/23/20	58	I43319827	PB02	10/23/20
25	I43319794	D09	10/23/20	59	I43319828	PB03	10/23/20
26	I43319795	E04	10/23/20				
27	I43319796	E05	10/23/20				
28	I43319797	G01	10/23/20				
29	I43319798	G02	10/23/20				
30	I43319799	G02A	10/23/20				
31	I43319800	G03	10/23/20				
32		G04	10/23/20				
	I43319802	G05	10/23/20				
34	I43319803	G06	10/23/20				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Sevier, Scott
My license renewal date for the state of North Carolina is December 31, 2020.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

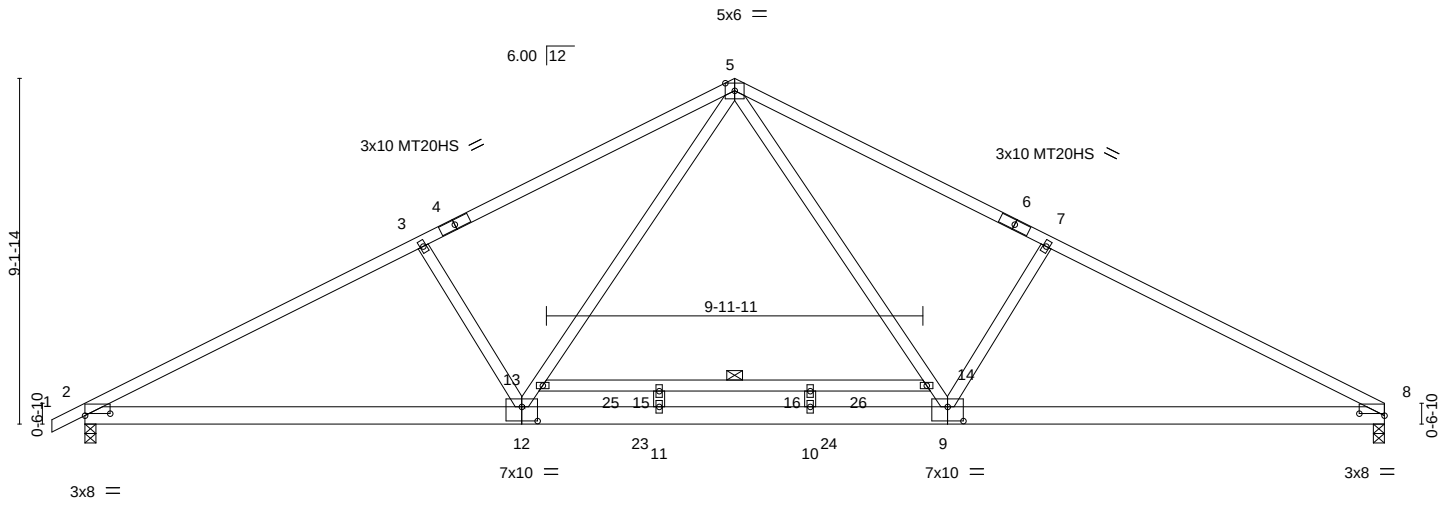
October 23,2020
Sevier, Scott

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	A07	COMMON	9	1	I43319770
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:34:40 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-QT9BCnHSCEnO19KTwTyi_GwNYMLmCg0l7dLD1RyQu9j

-0-10-8 8-11-8 17-2-8 25-5-8 34-5-0
0-10-8 8-11-8 8-3-0 8-3-0 8-11-8

Scale = 1:61.0



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

Plate Offsets (X,Y)-- [2:0-8-0,0-0-10], [8:0-8-0,0-0-10], [9:0-5-0,0-4-8], [12:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.30	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.58	10-11	>707	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.16	9-22	>999	240	Weight: 201 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
13-14: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 13-14

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=177(LC 11)
Max Uplift 2=-246(LC 12), 8=-222(LC 13)
Max Grav 2=1530(LC 1), 8=1476(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2620/1369, 3-5=-2363/1370, 5-7=-2365/1373, 7-8=-2622/1372
BOT CHORD 2-12=-1035/2254, 11-12=-511/1627, 10-11=-511/1627, 9-10=-511/1627, 8-9=-1038/2250
WEBS 5-14=-428/1040, 9-14=-420/932, 7-9=-495/675, 12-13=-414/930, 5-13=-423/1039, 3-12=-494/674

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 17-2-8 from left end, supported at two points, 5-0-0 apart.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=246, 8=222.
9) Load case(s) 2, 3, 19, 20, 21, 22, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-8=-60, 17-20=-20

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 23=-100 24=-100

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-8=-50, 17-20=-20, 25-26=-30
Concentrated Loads (lb)
Vert: 23=-100 24=-100

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-8=-20, 17-20=-40, 25-26=-40
Concentrated Loads (lb)
Vert: 23=-100 24=-100

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-5=-53, 5-8=-39, 17-20=-20, 25-26=-30
Horz: 1-2=-4, 2-5=3, 5-8=11
Concentrated Loads (lb)
Vert: 23=-100 24=-100

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-5=-39, 5-8=-53, 17-20=-20, 25-26=-30
Horz: 1-2=-19, 2-5=-11, 5-8=-3
Concentrated Loads (lb)
Vert: 23=-100 24=-100

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-21, 2-5=-29, 5-8=-42, 17-20=-20, 25-26=-30
Horz: 1-2=-29, 2-5=-21, 5-8=8
Concentrated Loads (lb)
Vert: 23=-100 24=-100

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-5=-42, 5-8=-29, 17-20=-20, 25-26=-30
Horz: 1-2=-15, 2-5=-8, 5-8=21
Concentrated Loads (lb)
Vert: 23=-100 24=-100

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-8=-20, 17-20=-20, 25-26=-30
Concentrated Loads (lb)
Vert: 23=-100 24=-100

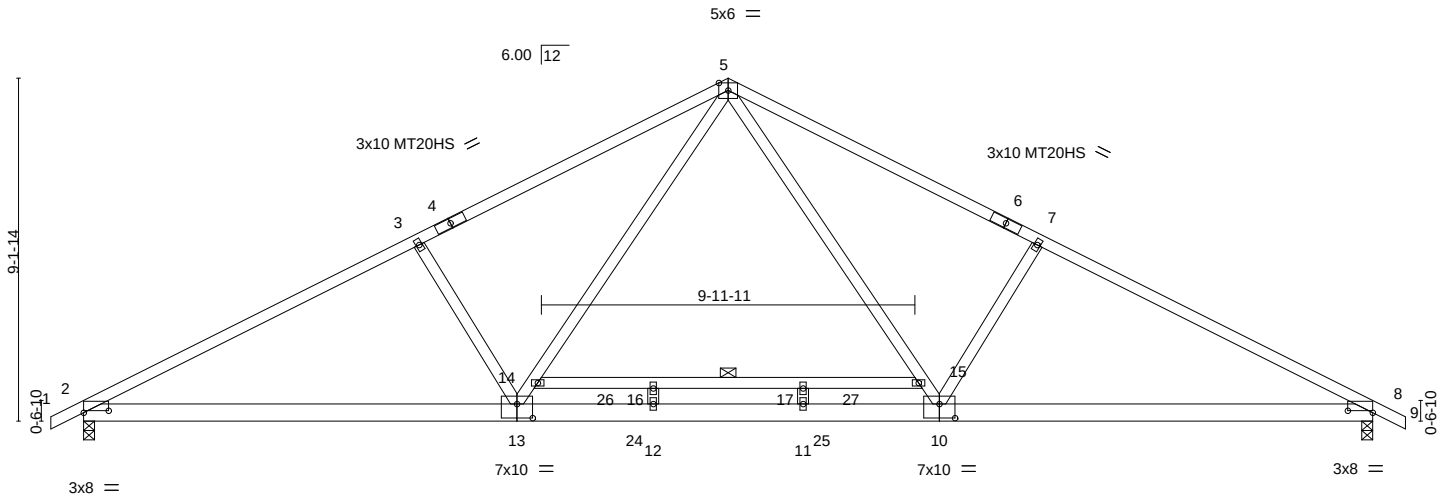
26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-8=-50, 17-20=-20, 25-26=-30
Concentrated Loads (lb)
Vert: 23=-100 24=-100

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	A08	COMMON	6	1	I43319771
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:34:41 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-ufjZQ6I4zYvFflufUATxWTTYMmh0x7XSLH5nZtyQu9i

-0-10-8 8-11-8 17-2-8 25-5-8 34-5-0 35-3-8
0-10-8 8-11-8 8-3-0 8-3-0 8-11-8 0-10-8

Scale = 1:61.5



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

Plate Offsets (X,Y)-- [2:0-8-0,0-0-10], [8:0-8-0,0-0-10], [10:0-5-0,0-4-8], [13:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.30	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.58	11-12	>707	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.16	10-23	>999	240	Weight: 202 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
14-15: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 14-15

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=175(LC 11)
Max Uplift 2=-245(LC 12), 8=-245(LC 13)
Max Grav 2=1529(LC 1), 8=1529(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2618/1367, 3-5=-2361/1368, 5-7=-2361/1368, 7-8=-2618/1367
BOT CHORD 2-13=-1001/2261, 12-13=-479/1625, 11-12=-479/1625, 10-11=-479/1625, 8-10=-1004/2246
WEBS 5-15=-425/1039, 10-15=-416/931, 7-10=-494/673, 13-14=-416/931, 5-14=-425/1039, 3-13=-494/673

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 17-2-8 from left end, supported at two points, 5-0-0 apart.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=245, 8=245.
9) Load case(s) 2, 3, 19, 20, 21, 22, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-9=-60, 18-21=-20

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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 24=-100 25=-100

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-9=-50, 18-21=-20, 26-27=-30
Concentrated Loads (lb)
Vert: 24=-100 25=-100

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-9=-20, 18-21=-40, 26-27=-40
Concentrated Loads (lb)
Vert: 24=-100 25=-100

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-5=-53, 5-8=-39, 8-9=-31, 18-21=-20, 26-27=-30
Horz: 1-2=-4, 2-5=3, 5-8=11, 8-9=19
Concentrated Loads (lb)
Vert: 24=-100 25=-100

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-5=-39, 5-8=-53, 8-9=-46, 18-21=-20, 26-27=-30
Horz: 1-2=-19, 2-5=-11, 5-8=-3, 8-9=4
Concentrated Loads (lb)
Vert: 24=-100 25=-100

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-21, 2-5=-29, 5-8=-42, 8-9=-35, 18-21=-20, 26-27=-30
Horz: 1-2=-29, 2-5=-21, 5-8=8, 8-9=15
Concentrated Loads (lb)
Vert: 24=-100 25=-100

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-5=-42, 5-8=-29, 8-9=-21, 18-21=-20, 26-27=-30
Horz: 1-2=-15, 2-5=-8, 5-8=21, 8-9=29
Concentrated Loads (lb)
Vert: 24=-100 25=-100

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-9=-20, 18-21=-20, 26-27=-30
Concentrated Loads (lb)
Vert: 24=-100 25=-100

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-9=-50, 18-21=-20, 26-27=-30
Concentrated Loads (lb)
Vert: 24=-100 25=-100

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	A15	HIP	6	1	I43319772
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:34:43 2020 Page 1
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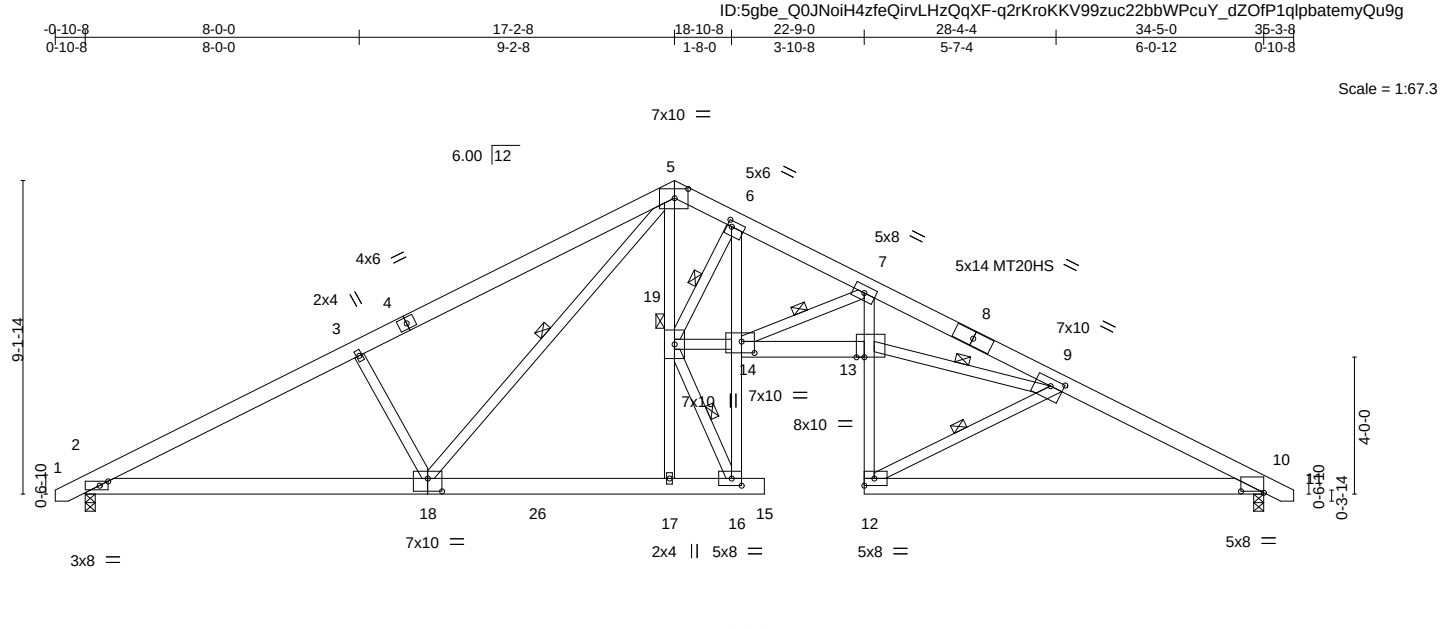


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [5:0-4-12,0-3-4], [6:0-1-8,0-2-0], [9:0-4-8,0-2-8], [10:0-8-0,0-0-8], [13:0-2-12,0-0-0], [14:0-4-8,0-4-0], [16:0-3-8,0-2-8], [18:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.47	15	>883	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.94	15	>439	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.68	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.56	12	>742	240	Weight: 267 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
6-16,7-12: 2x4 SP No.1, 13-14: 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
9-13: 2x4 SP No.1, 14-19: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
5-9-0 oc bracing: 14-16
WEBS 1 Row at midpt 5-18, 7-14, 9-13, 9-12, 6-19, 16-19
JOINTS 1 Brace at Jt(s): 19

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=173(LC 11)
Max Uplift 2=-337(LC 12), 10=-335(LC 13)
Max Grav 2=1425(LC 1), 10=1427(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2486/1681, 3-5=-2305/1717, 5-6=-1531/1275, 6-7=-3517/2136, 7-9=-6414/3744, 9-10=-2532/1738
BOT CHORD 2-18=-1320/2181, 17-18=-581/1419, 16-17=-575/1404, 14-16=-1147/2866, 6-14=-1762/3846, 13-14=-2945/5666, 12-13=-733/1339, 7-13=-1219/2351, 10-12=-1386/2235
WEBS 3-18=-516/689, 5-18=-659/830, 7-14=-2786/1738, 9-13=-2961/5590, 9-12=-2439/1552, 6-19=-3504/1604, 16-19=-3121/1271, 17-19=0/263, 5-19=-299/678, 14-19=-1312/3019

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=337, 10=335.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

October 23,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	A16	HIP	4	1	I43319773
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:34:44 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-IEOi28KyGTHpWmdE9J1e8659Mzkt8U3u2FJRACyQu9f

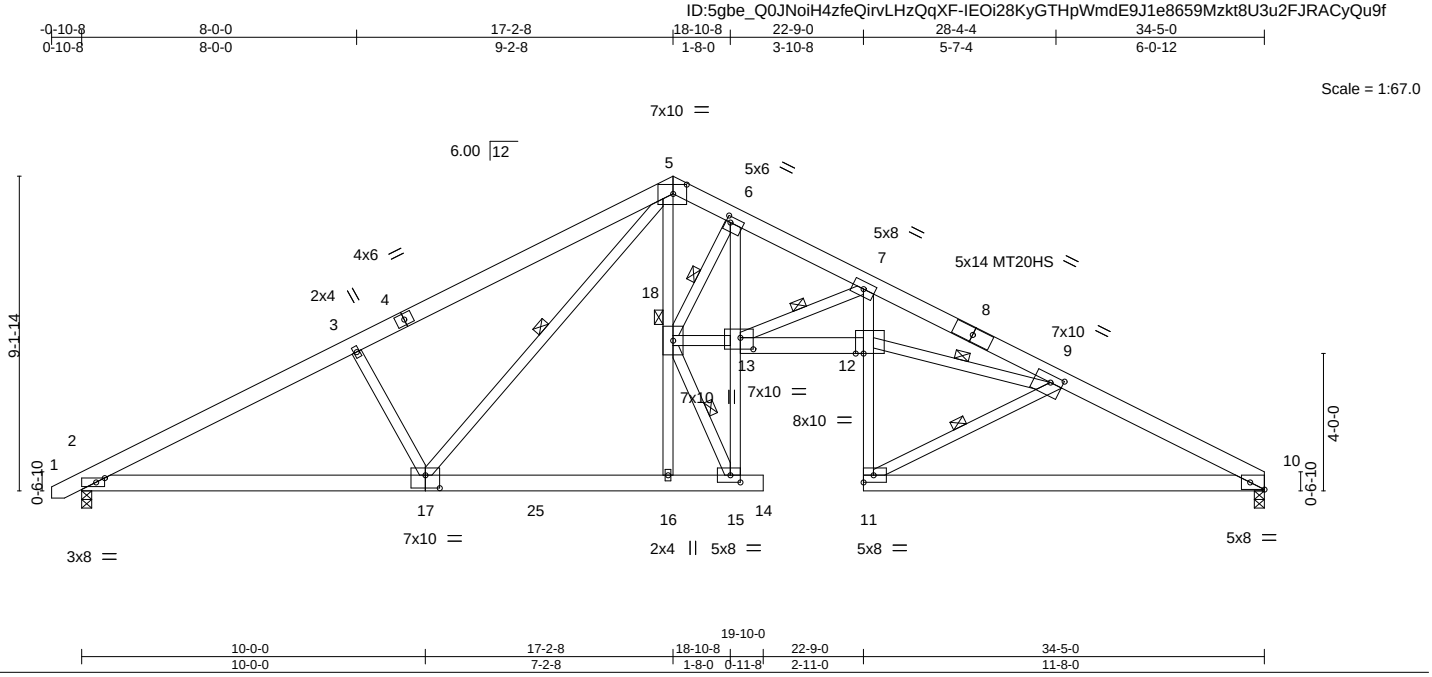


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [5:0-4-12,0-3-4], [6:0-1-8,0-2-0], [9:0-4-4,0-2-8], [10:0-5-0,Edge], [12:0-2-12,0-0-0], [13:0-4-8,0-4-0], [15:0-3-8,0-2-8], [17:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.47	14	>882	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.94	14	>439	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.68	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.56	11	>731	240	Weight: 265 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
6-15,7-11: 2x4 SP No.1, 12-13: 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
9-12: 2x4 SP No.1, 13-18: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
5-8-0 oc bracing: 13-15
WEBS 1 Row at midpt 5-17, 7-13, 9-12, 9-11, 6-18, 15-18
JOINTS 1 Brace at Jt(s): 18

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=175(LC 9)
Max Uplift 2=-337(LC 12), 10=-317(LC 13)
Max Grav 2=1425(LC 1), 10=1385(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2487/1683, 3-5=-2306/1719, 5-6=-1532/1278, 6-7=-3520/2166, 7-9=-6419/3807, 9-10=-2535/1743
BOT CHORD 2-17=-1347/2182, 16-17=-605/1420, 15-16=-599/1405, 13-15=-1197/2868, 6-13=-1821/3849, 12-13=-3024/5670, 11-12=-749/1342, 7-12=-1249/2354, 10-11=-1414/2239
WEBS 3-17=-516/689, 5-17=-659/830, 7-13=-2789/1768, 9-12=-3038/5594, 9-11=-2444/1583, 6-18=-3507/1657, 15-18=-3122/1325, 16-18=0/263, 5-18=-300/679, 13-18=-1361/3021

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=337, 10=317.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

October 23,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	A17	Common Supported Gable	3	1	I43319774
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:34:46 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-EdWSTqMDo4XXl4ndHk36DXAcMncNcalBVZoYF5yQu9d

-0-10-8 17-2-8 34-5-0
0-10-8 17-2-8 17-2-8

Scale = 1:59.9

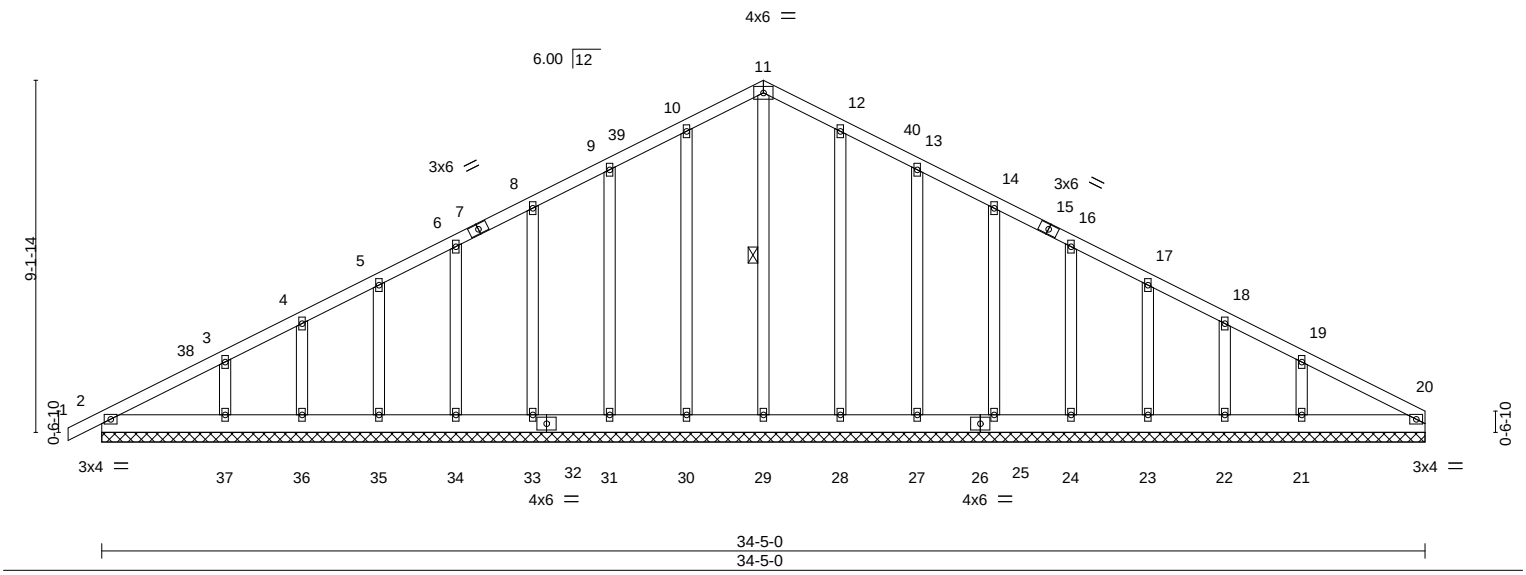


Plate Offsets (X,Y)-- [15:0-0-0,0-0-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 245 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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.
WEBS 1 Row at midpt 11-29

REACTIONS. All bearings 34-5-0.
(lb) - Max Horz 2=279(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 22 except 30=-123(LC 12), 31=-129(LC 12), 33=-125(LC 12), 34=-124(LC 12), 35=-132(LC 12), 37=-214(LC 12), 28=-119(LC 13), 27=-131(LC 13), 25=-125(LC 13), 24=-124(LC 13), 23=-133(LC 13), 21=-222(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 29, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22, 20 except 21=262(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-344/106, 8-9=-99/303, 9-10=-130/392, 10-11=-159/470, 11-12=-159/472, 12-13=-130/394, 13-14=-99/305, 19-20=-268/91
BOT CHORD 2-37=-86/291, 36-37=-86/291, 35-36=-86/291, 34-35=-86/291, 33-34=-86/291, 31-33=-86/291, 30-31=-86/291, 29-30=-86/291, 28-29=-86/291, 27-28=-86/291, 25-27=-86/291, 24-25=-86/291, 23-24=-86/291, 22-23=-86/291, 21-22=-86/291, 20-21=-86/291
WEBS 10-30=-128/274, 3-37=-169/313, 12-28=-128/274, 19-21=-182/385

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-6-13, Exterior(2) 2-6-13 to 17-2-8, Corner(3) 17-2-8 to 20-7-13, Exterior(2) 20-7-13 to 34-5-0 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) 2, 36, 22 except (jt=lb) 30=123, 31=129, 33=125, 34=124, 35=132, 37=214, 28=119, 27=131, 25=125, 24=124, 23=133, 21=222.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 20.

October 23,2020

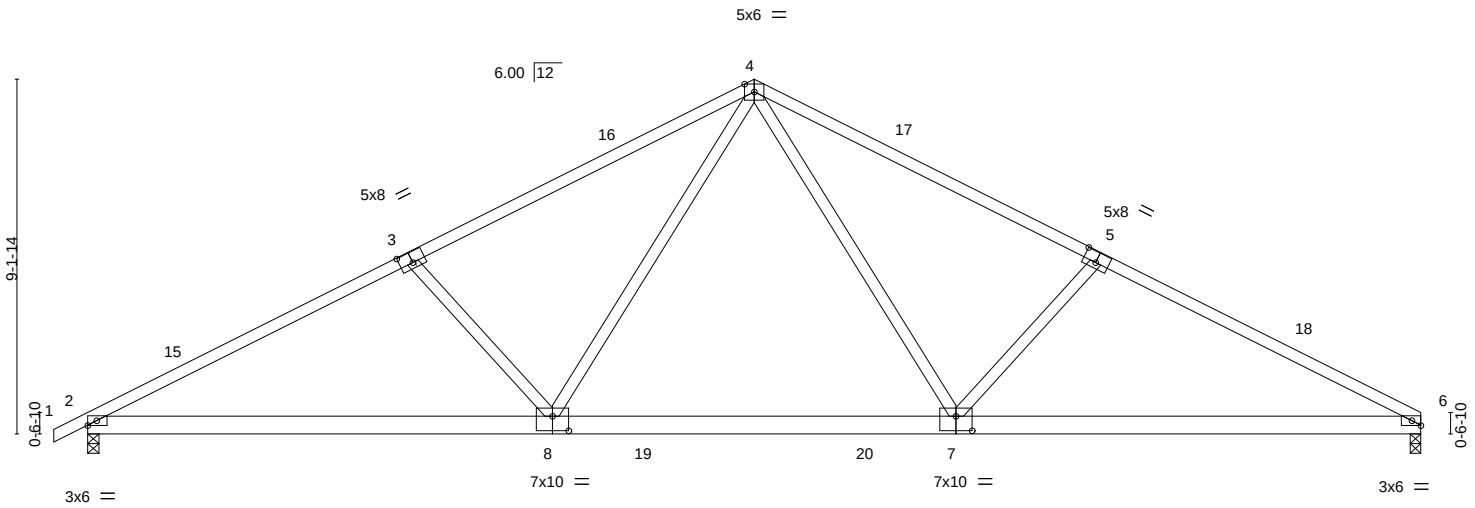
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/ I43319775
2502469_MASTER	A18	Common	20	1	Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:34:52 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-3ntkktR_NwIhT?Emd_AWToQSuCW106H3tVFsSkyQu9X

-0-10-8 8-4-12 17-2-8 26-0-4 34-5-0
0-10-8 8-4-12 8-9-12 8-9-12 8-4-12

Scale = 1:59.5



12-0-0 22-5-0 34-5-0
12-0-0 10-5-0 12-0-0

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.22	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.34	7-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.17	8-11	>999	240	Weight: 185 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 6=0-3-4
Max Horz 2=284(LC 16)
Max Uplift 2=-661(LC 12), 6=-619(LC 13)
Max Grav 2=1430(LC 1), 6=1376(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2403/1085, 3-4=-2072/1022, 4-5=-2075/1040, 5-6=-2406/1104
BOT CHORD 2-8=-1070/2067, 7-8=-445/1373, 6-7=-822/2070
WEBS 4-7=-425/771, 5-7=-524/634, 4-8=-422/768, 3-8=-523/633

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-6-13, Interior(1) 2-6-13 to 17-2-8, Exterior(2) 17-2-8 to 20-7-13, Interior(1) 20-7-13 to 34-5-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=661, 6=619.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

October 23,2020

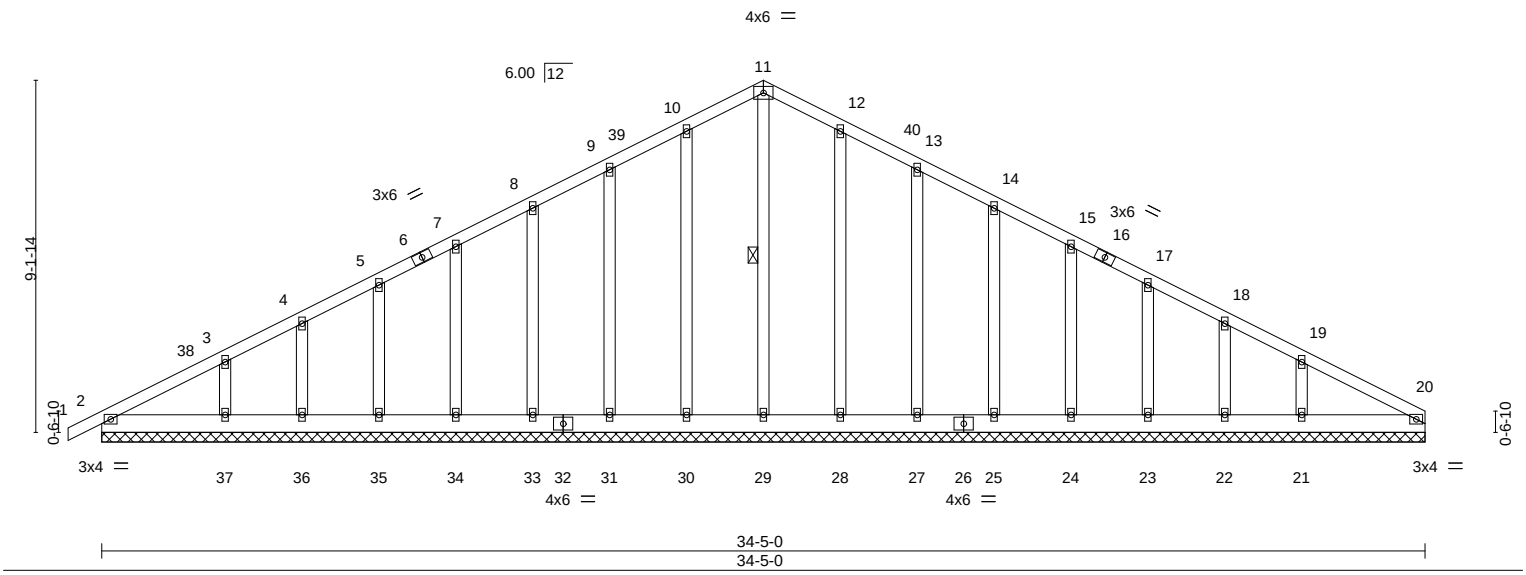
ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	A19	Common Supported Gable	4	1	I43319776
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:34:55 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-TMZsMvTsgrgGKSzLI7jD5Q285PgTDezWZTUW33yQu9U

-0-10-8 17-2-8 34-5-0
0-10-8 17-2-8 17-2-8

Scale = 1:59.9



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 245 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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.
WEBS 1 Row at midpt 11-29

REACTIONS. All bearings 34-5-0.
(lb) - Max Horz 2=279(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 22 except 30=-123(LC 12), 31=-129(LC 12), 33=-125(LC 12), 34=-124(LC 12), 35=-132(LC 12), 37=-214(LC 12), 28=-119(LC 13), 27=-131(LC 13), 25=-125(LC 13), 24=-124(LC 13), 23=-133(LC 13), 21=-222(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 29, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22, 20 except 21=262(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-344/106, 8-9=-99/303, 9-10=-130/392, 10-11=-159/470, 11-12=-159/472, 12-13=-130/394, 13-14=-99/305, 19-20=-268/91
BOT CHORD 2-37=-86/291, 36-37=-86/291, 35-36=-86/291, 34-35=-86/291, 33-34=-86/291, 31-33=-86/291, 30-31=-86/291, 29-30=-86/291, 28-29=-86/291, 27-28=-86/291, 25-27=-86/291, 24-25=-86/291, 23-24=-86/291, 22-23=-86/291, 21-22=-86/291, 20-21=-86/291
WEBS 10-30=-128/274, 3-37=-169/313, 12-28=-128/274, 19-21=-182/385

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-6-13, Exterior(2) 2-6-13 to 17-2-8, Corner(3) 17-2-8 to 20-7-13, Exterior(2) 20-7-13 to 34-5-0 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) 2, 36, 22 except (jt=lb) 30=123, 31=129, 33=125, 34=124, 35=132, 37=214, 28=119, 27=131, 25=125, 24=124, 23=133, 21=222.

October 23,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	A20	COMMON	15	1	I43319777
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:34:57 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-QkhdnbU6CSwzam7kQYmhAr7LXDDBhVGo1nzd7yyQu9S

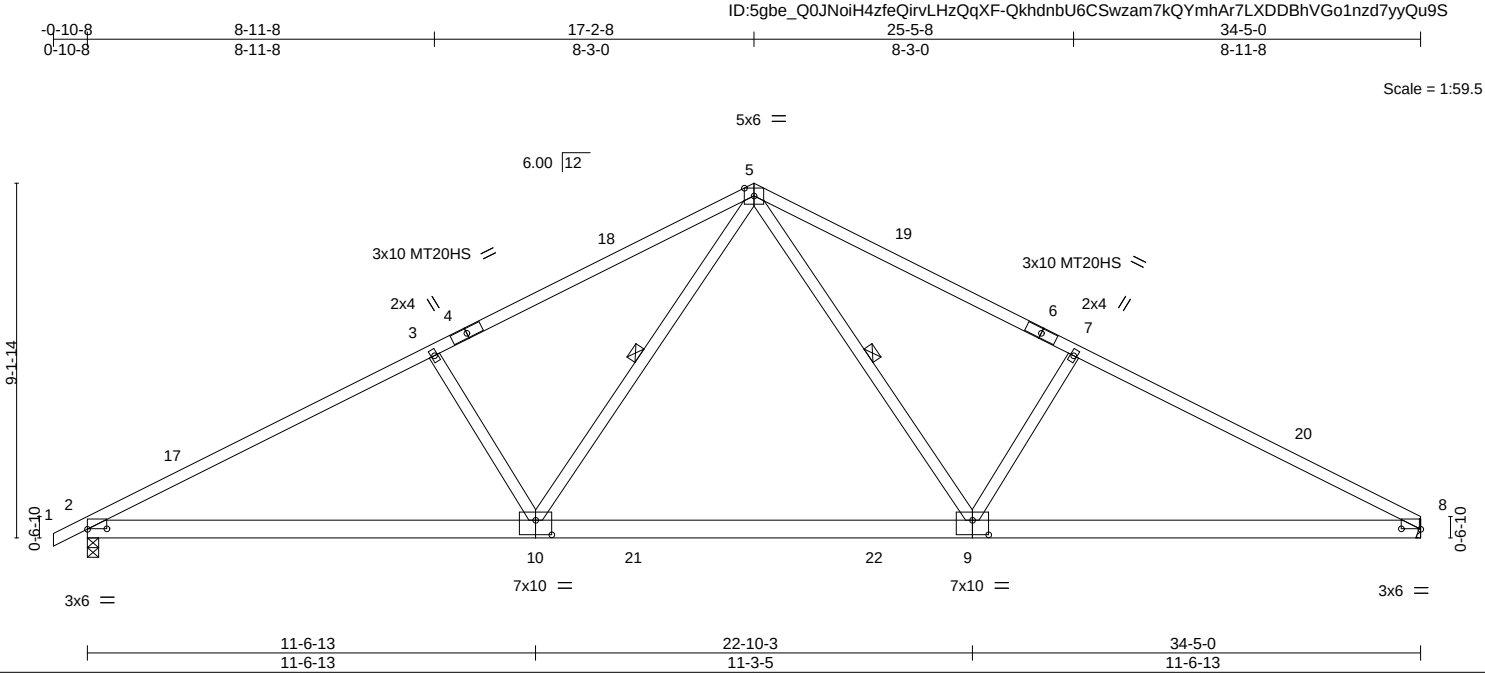


Plate Offsets (X,Y)-- [2:0-6-0,0-0-2], [8:0-6-0,0-0-2], [9:0-5-0,0-4-8], [10:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.26	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.39	9-10	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.19	9-16	>999	240	Weight: 184 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-9, 5-10

REACTIONS. (size) 2=0-3-8, 8=Mechanical
Max Horz 2=284(LC 12)
Max Uplift 2=-661(LC 12), 8=-619(LC 13)
Max Grav 2=1430(LC 1), 8=1376(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2385/1055, 3-5=-2128/1071, 5-7=-2131/1090, 7-8=-2388/1075
BOT CHORD 2-10=-1022/2041, 9-10=-444/1366, 8-9=-785/2043
WEBS 5-9=-499/850, 7-9=-504/615, 5-10=-495/846, 3-10=-503/614

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-6-13, Interior(1) 2-6-13 to 17-2-8, Exterior(2) 17-2-8 to 20-7-13, Interior(1) 20-7-13 to 34-5-0 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) All plates are MT20 plates unless otherwise indicated.
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) 2=661, 8=619.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

October 23,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	B01	GABLE	2	1	I43319778
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:34:59 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-M7oNCGWNk4Ahp3G6Xyo9FGDqV02X9Tz5U4SkCqyQu9Q

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

Scale = 1:33.1

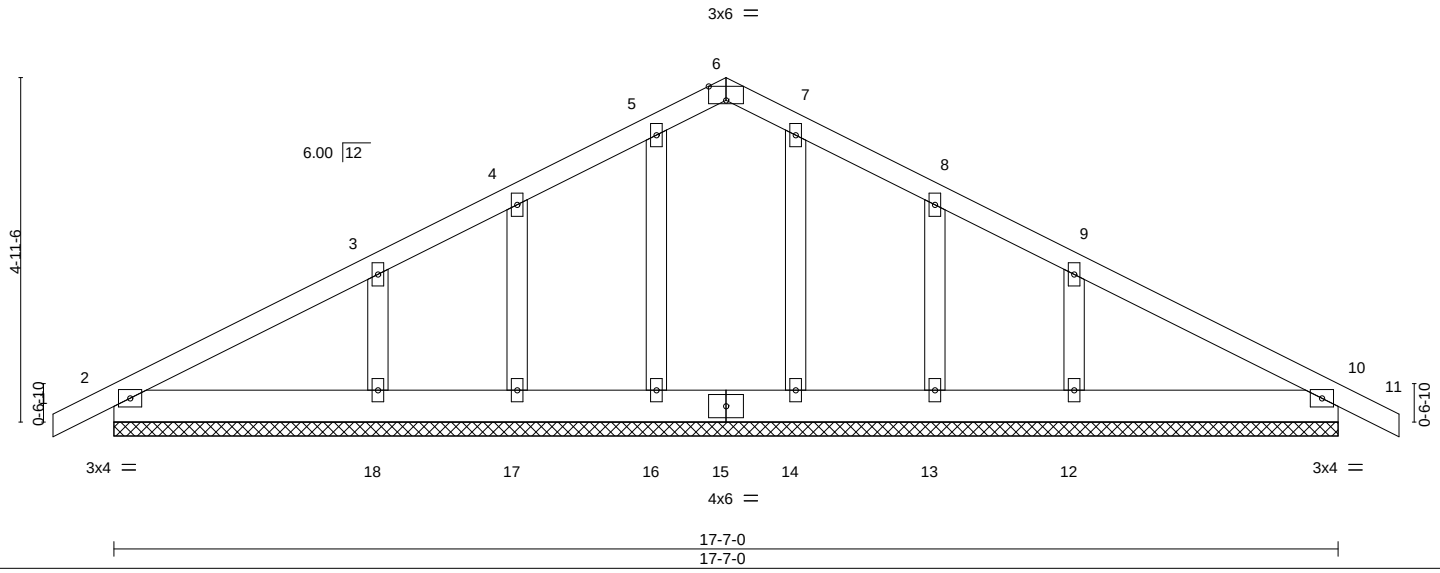


Plate Offsets (X,Y)-- [6:0-3-0,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 98 lb	FT = 20%

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

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

REACTIONS. All bearings 17-7-0.
(lb) - Max Horz 2=145(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 17, 14, 13, 10 except 18=-240(LC 12), 12=-238(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 17, 14, 13, 10 except 18=295(LC 23), 12=295(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-18=-196/277, 9-12=-196/277

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 2, 16, 17, 14, 13, 10 except (jt=lb) 18=240, 12=238.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	B02	COMMON	2	1	I43319779
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:01 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-lWw7cyYdFhQP2NQVfNqdKhI6gqb1dMdOyOxqGjyQu9O

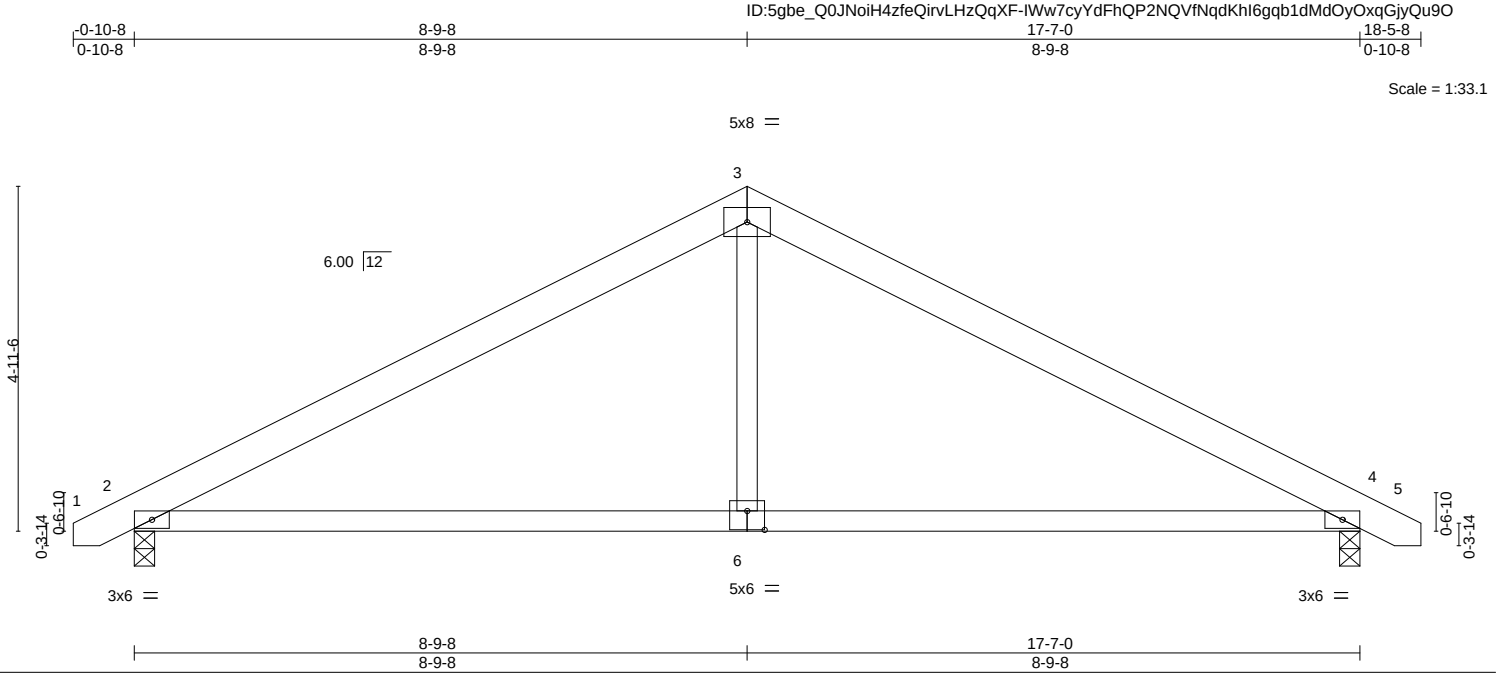

Plate Offsets (X,Y)-- [6:0-3-0,0-3-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.08	6-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.17	6-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.08	6-9	>999	240	Weight: 83 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=91(LC 11)
Max Uplift 2=-183(LC 12), 4=-183(LC 13)
Max Grav 2=744(LC 1), 4=744(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-957/633, 3-4=-957/633
BOT CHORD 2-6=-364/796, 4-6=-364/796
WEBS 3-6=0/359

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 2=183, 4=183.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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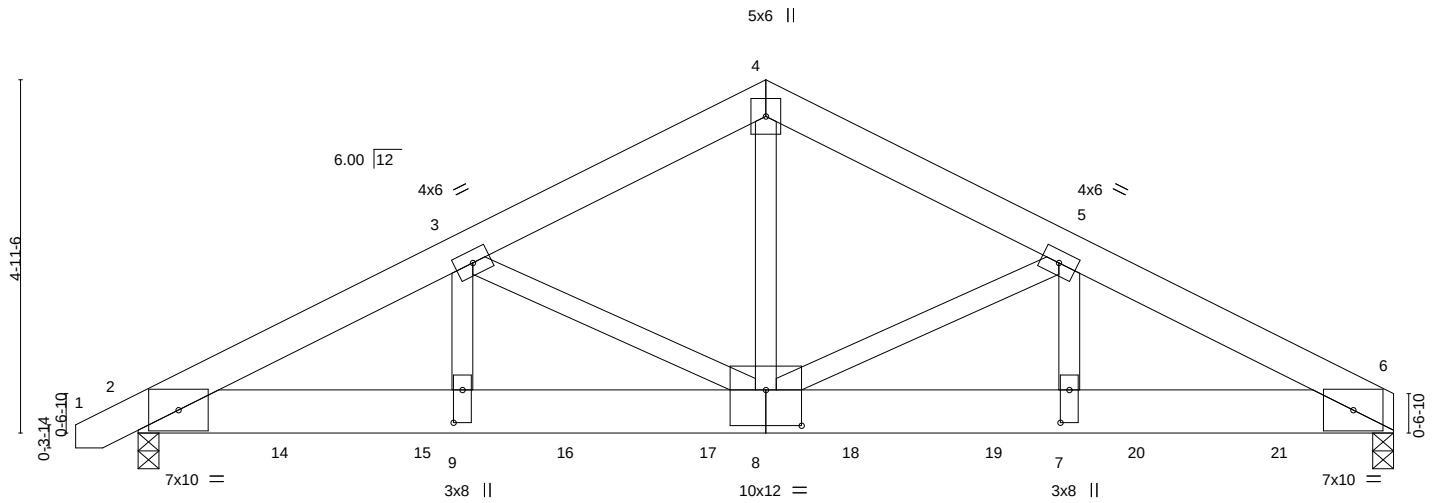
Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	B03	COMMON GIRDER	2	2	I43319780
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:03 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-Fu2u1eZtnIg7Ihaumot5P6NRJdId56ShPiQxLbyQu9M

-0-10-8 | 4-6-8 | 8-9-8 | 13-0-8 | 17-7-0
0-10-8 | 4-6-8 | 4-3-0 | 4-3-0 | 4-6-8

Scale: 3/8"=1'



4-6-8 | 8-9-8 | 13-0-8 | 17-7-0
4-6-8 | 4-3-0 | 4-3-0 | 4-6-8

Plate Offsets (X,Y)-- [7:0-5-8,0-1-8], [8:0-6-0,0-6-0], [9:0-5-8,0-1-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.10	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.19	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	8-9	>999	240	Weight: 254 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 4-1-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8 (req. 0-3-14), 2=0-3-8 (req. 0-3-9)
Max Horz 2=93(LC 24)
Max Uplift 6=-1814(LC 9), 2=-2391(LC 8)
Max Grav 6=6534(LC 1), 2=6062(LC 1)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-11049/4300, 3-4=-7949/2911, 4-5=-7951/2911, 5-6=-11365/3449
BOT CHORD 2-9=-3862/9866, 8-9=-3862/9866, 7-8=-3014/10161, 6-7=-3014/10161
WEBS 4-8=-2422/6672, 5-8=-3480/664, 5-7=-435/2948, 3-8=-3146/1538, 3-9=-1210/2678

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 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 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) 6, 2 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) 6=1814, 2=2391.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1356 lb down and 639 lb up at 2-0-12, 1356 lb down and 639 lb up at 4-0-12, 1356 lb down and 639 lb up at 6-0-12, 1356 lb down and 639 lb up at 8-0-12, 1356 lb down and 639 lb up at 10-0-12, 1456 lb down and 242 lb up at 12-0-12, and 1456 lb down and 242 lb up at 14-0-12, and 1456 lb down and 242 lb up at 16-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-6=-60, 2-6=-20

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October 23,2020

Continued on page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 14=-1356(B) 15=-1356(B) 16=-1356(B) 17=-1356(B) 18=-1356(B) 19=-1456(B) 20=-1456(B) 21=-1456(B)

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	C01	Common Supported Gable	4	1	I43319781
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:04 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-j5cGF_aVYcp_vr94KWOKyKwiu1mJqkwqeM9Vt2yQu9L

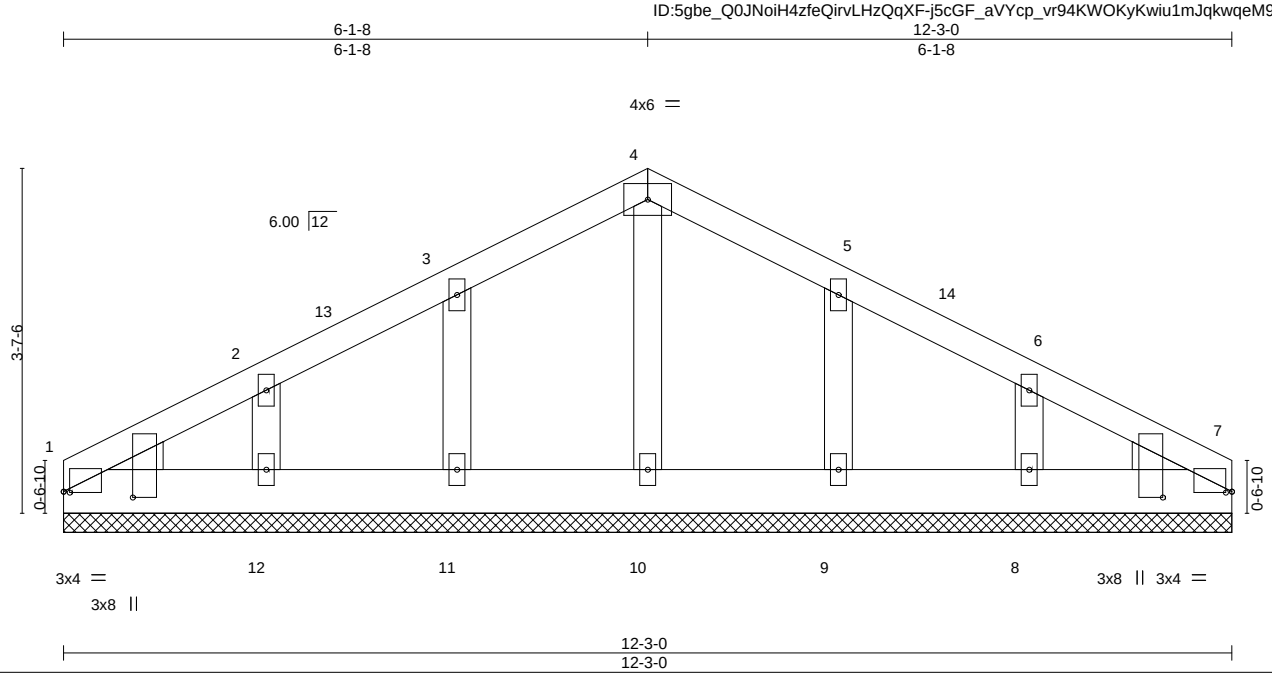

Plate Offsets (X,Y)-- [1:0-0-12,0-0-2], [1:0-0-12,0-8-11], [7:0-0-12,0-0-2], [7:0-0-12,0-8-11]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.2, Right: 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. All bearings 12-3-0.
(lb) - Max Horz 1=97(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-127(LC 12), 12=-157(LC 12), 9=-127(LC 13), 8=-155(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 10, 11, 12, 9, 8, 1, 7

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-126/309, 2-12=-131/333, 5-9=-126/305, 6-8=-131/338

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2) 3-0-0 to 6-1-8, Corner(3) 6-1-8 to 9-1-8, Exterior(2) 9-1-8 to 12-3-0 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) 1, 7 except (jt=lb) 11=127, 12=157, 9=127, 8=155.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 7.

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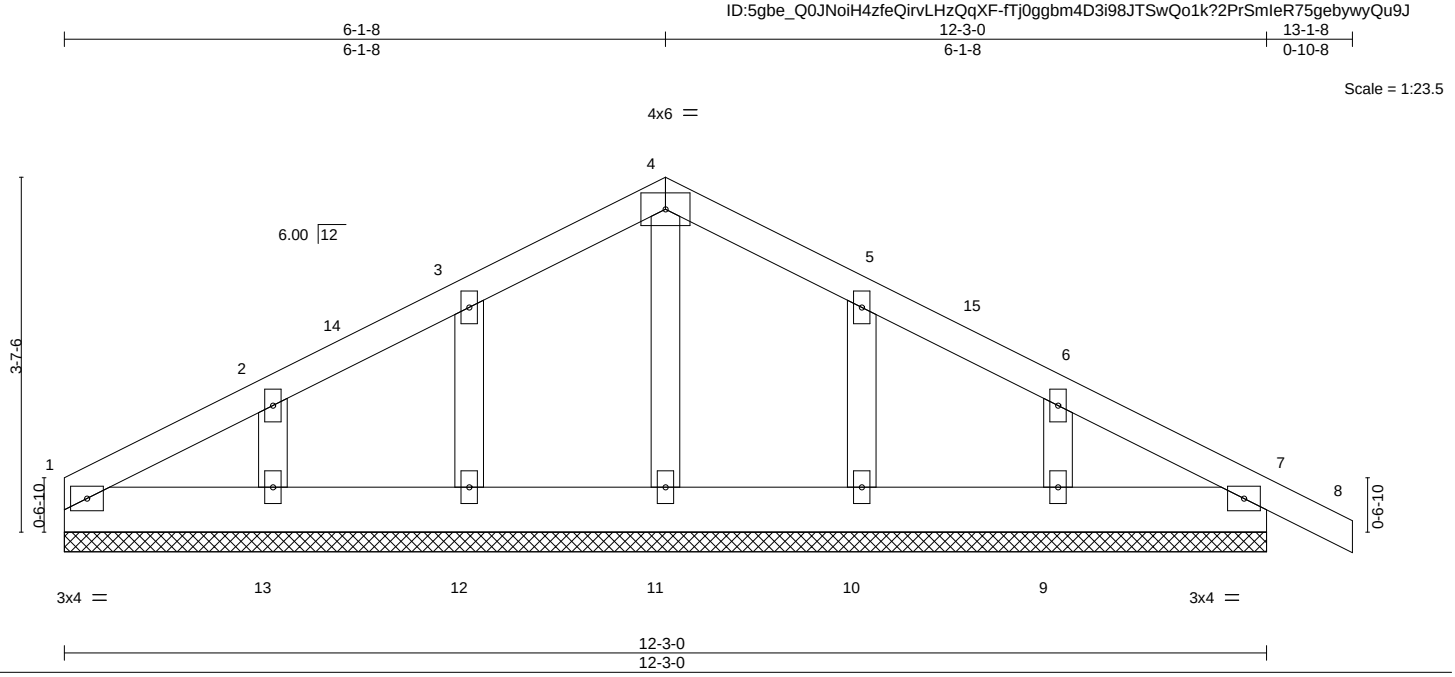
Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	C02	Common Supported Gable	2	1	I43319782
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:06 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-fTj0ggbm4D3i98JTSwQo1k?2PrSmIeR75gebywyQu9J



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 63 lb	FT = 20%

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

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

REACTIONS. All bearings 12-3-0.
(lb) - Max Horz 1=-113(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-127(LC 12), 13=-157(LC 12), 10=-131(LC 13), 9=-139(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 12, 13, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-126/309, 2-13=-131/333, 5-10=-128/309, 6-9=-125/259

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2) 3-0-0 to 6-1-8, Corner(3) 6-1-8 to 9-1-8, Exterior(2) 9-1-8 to 13-1-8 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) 1, 7 except (jt=lb) 12=127, 13=157, 10=131, 9=139.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	C03	Common	6	1	I43319783
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:07 2020 Page 1
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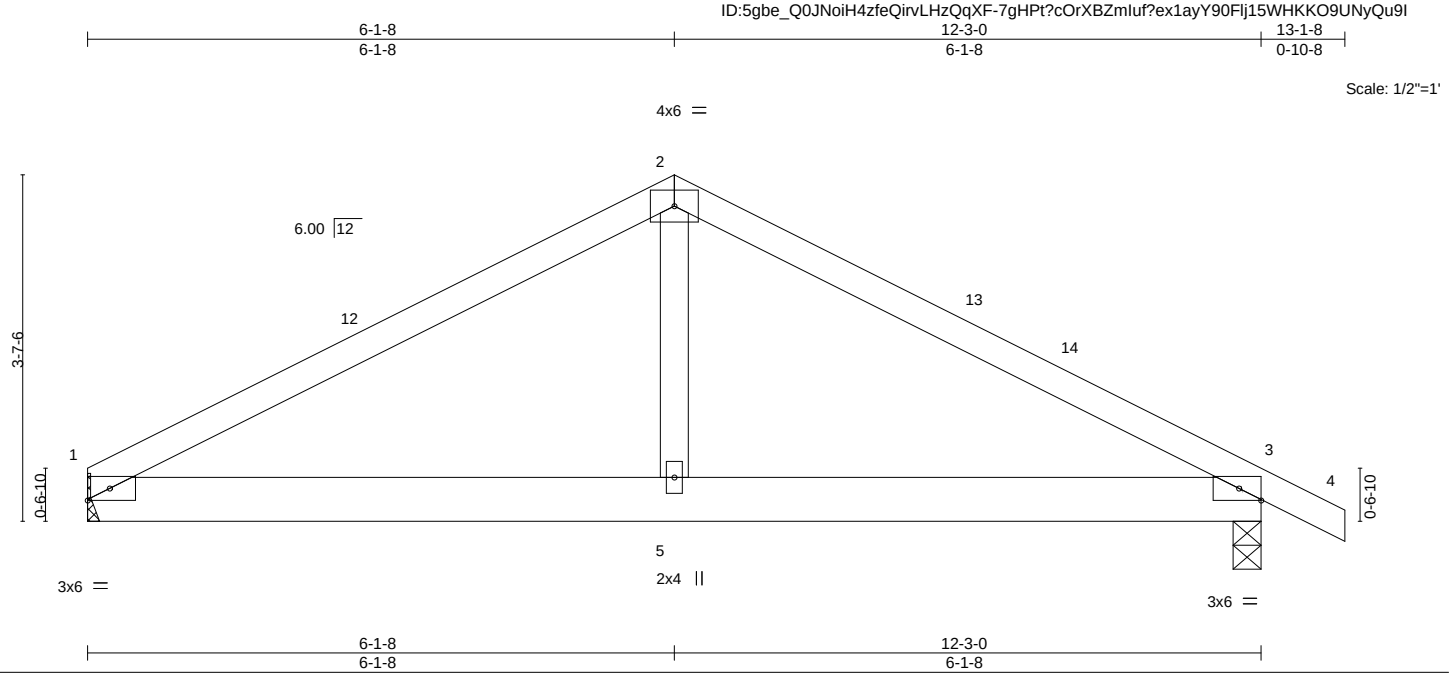

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.03	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.03	5-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS							Weight: 55 lb	FT = 20%

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

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

REACTIONS. (size) 1=Mechanical, 3=0-3-8
Max Horz 1=-118(LC 17)
Max Uplift 1=-219(LC 12), 3=-263(LC 13)
Max Grav 1=488(LC 1), 3=544(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-680/416, 2-3=-681/397
BOT CHORD 1-5=-210/540, 3-5=-210/540
WEBS 2-5=-23/291

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-1-8, Exterior(2) 6-1-8 to 9-1-8, Interior(1) 9-1-8 to 13-1-8 zone; end vertical 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) 1=219, 3=263.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	C04	Common Supported Gable	2	1	I43319784
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:08 2020 Page 1
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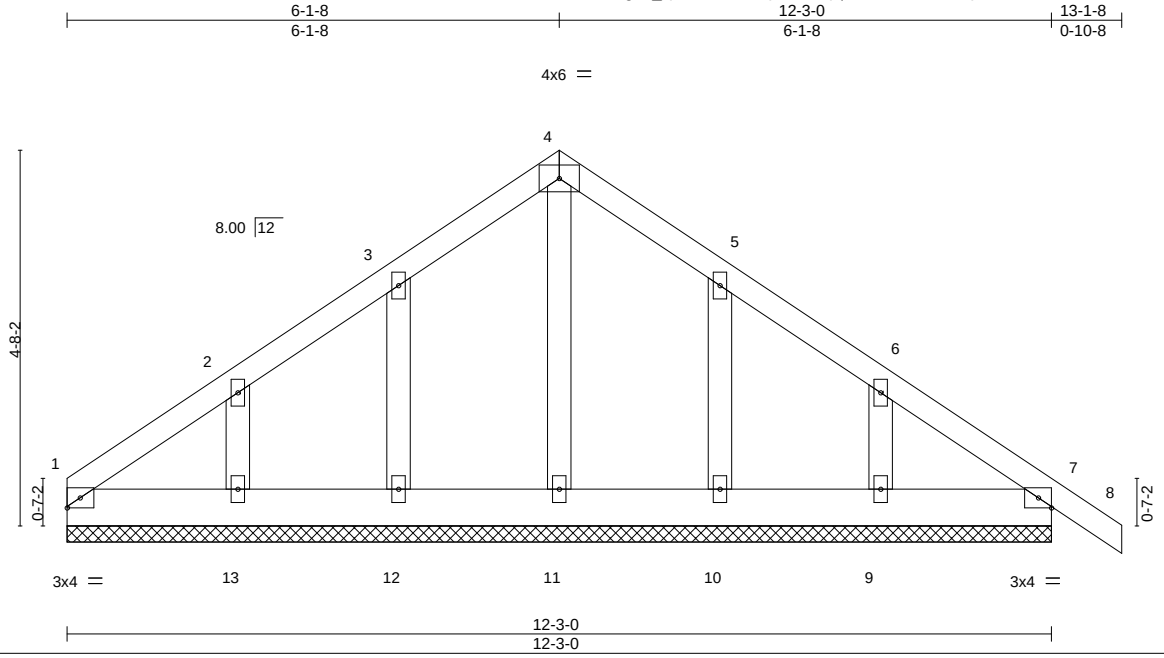

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 70 lb	FT = 20%

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

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

REACTIONS. All bearings 12-3-0.
(lb) - Max Horz 1=-201(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-152(LC 12), 13=-196(LC 12), 10=-156(LC 13), 9=-176(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 12, 13, 10, 9

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2) 3-0-0 to 6-1-8, Corner(3) 6-1-8 to 9-1-8, Exterior(2) 9-1-8 to 13-1-8 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) 1, 7 except (jt=lb) 12=152, 13=196, 10=156, 9=176.

October 23,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	C05	Common	6	1	I43319785
					Job Reference (optional)

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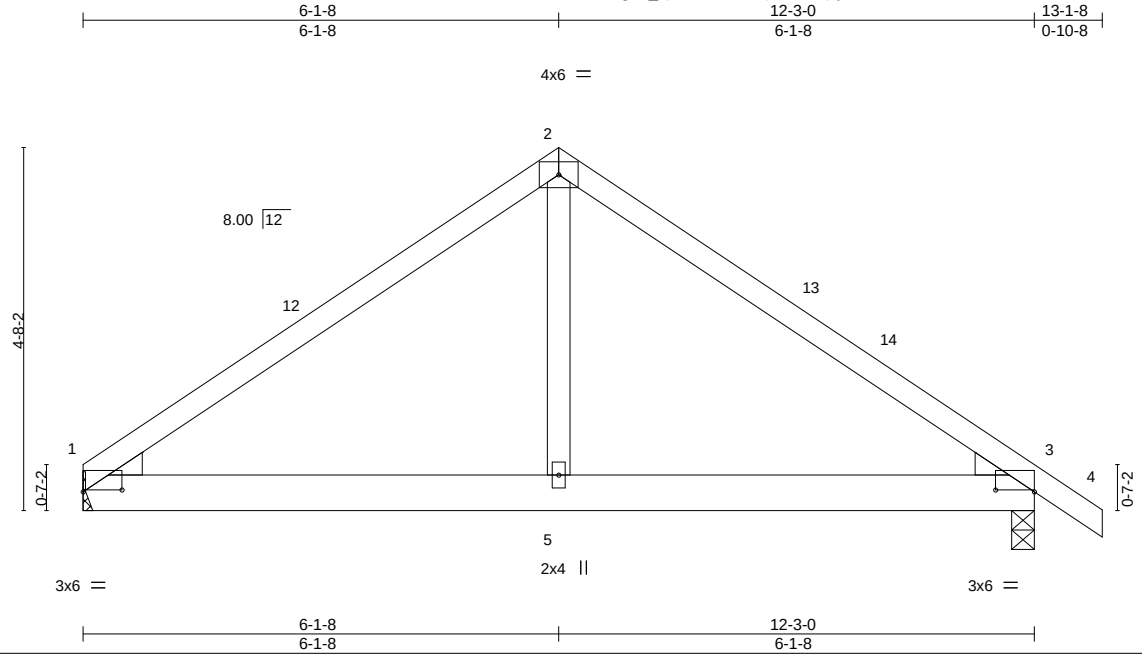

Plate Offsets (X,Y)-- [1:0-6-0,0-0-5], [3:0-6-0,0-0-5]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.04	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.03	5-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.01	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS							Weight: 60 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=Mechanical, 3=0-3-8
Max Horz 1=-199(LC 8)
Max Uplift 1=-209(LC 12), 3=-253(LC 13)
Max Grav 1=488(LC 1), 3=544(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-677/315, 2-3=-677/307
BOT CHORD 1-5=-115/450, 3-5=-115/450
WEBS 2-5=-30/295

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-1-8, Exterior(2) 6-1-8 to 9-1-8, Interior(1) 9-1-8 to 13-1-8 zone; end vertical 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) 1=209, 3=253.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	D01	GABLE	1	1	I43319786
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:10 2020 Page 1
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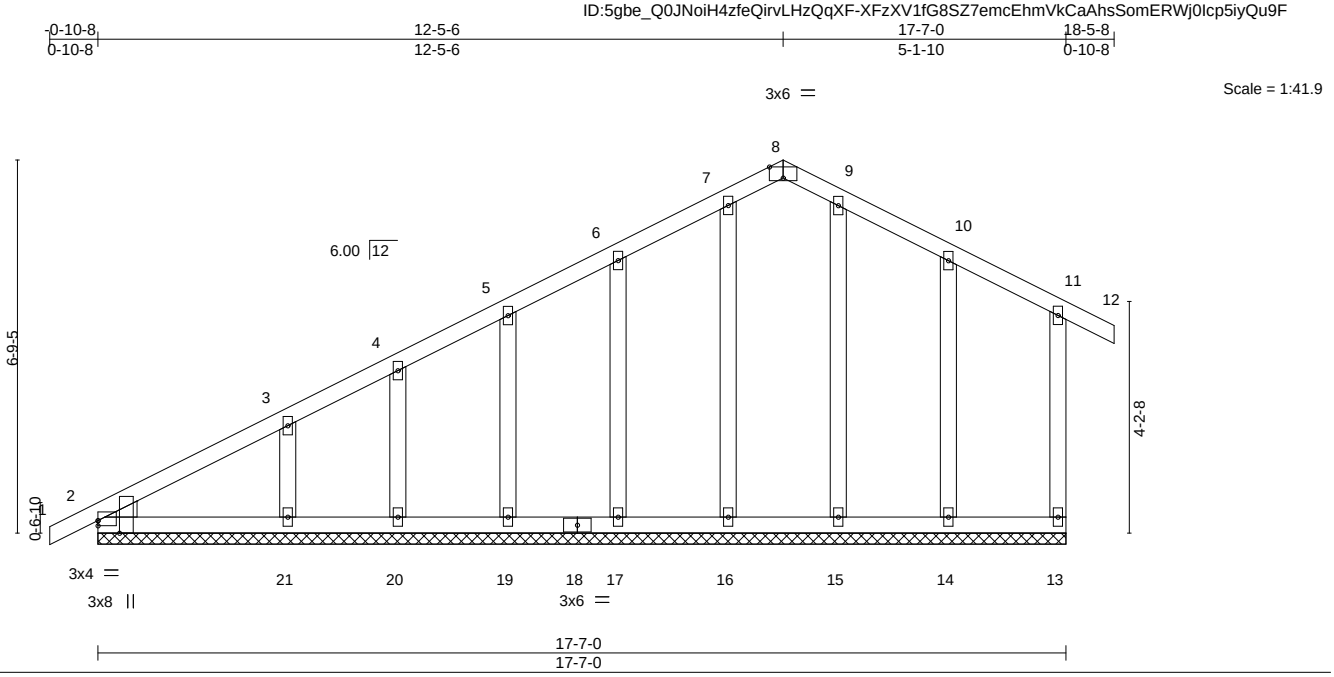

Plate Offsets (X,Y)-- [2:0-2-12,Edge], [2:0-0-0,0-1-2], [8:0-3-0,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 108 lb	FT = 20%

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

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

REACTIONS. All bearings 17-7-0.
(lb) - Max Horz 2=272(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 13, 2, 16, 17, 19, 20, 14 except 21=-136(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 13, 2, 16, 17, 19, 20, 15, 14 except 21=268(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-293/214, 6-7=-195/320, 7-8=-174/307, 8-9=-175/308, 9-10=-193/317
WEBS 3-21=-191/287

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 13, 2, 16, 17, 19, 20, 14 except (jt=lb) 21=136.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	D02	Common	1	1	I43319787
					Job Reference (optional)

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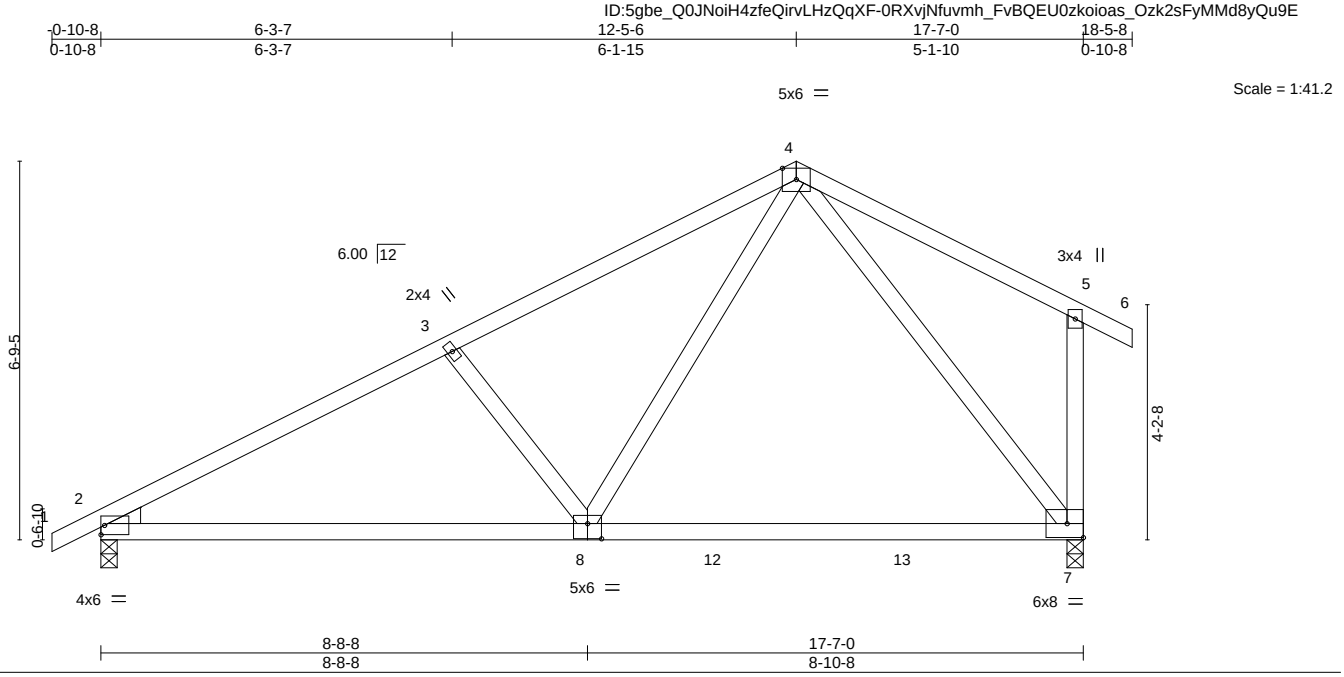

Plate Offsets (X,Y)-- [8:0-3-0,0-3-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.21	7-8	>987	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.34	7-8	>620	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.05	8-11	>999	240	Weight: 93 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
5-7: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=275(LC 11)
Max Uplift 2=-202(LC 12), 7=-165(LC 12)
Max Grav 2=750(LC 1), 7=759(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1060/725, 3-4=-831/669, 4-5=-235/305, 5-7=-251/342
BOT CHORD 2-8=-812/914, 7-8=-345/456
WEBS 3-8=-371/501, 4-8=-333/595, 4-7=-576/449

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=202, 7=165.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	D03	Common Girder	1	2	I43319788
					Job Reference (optional)

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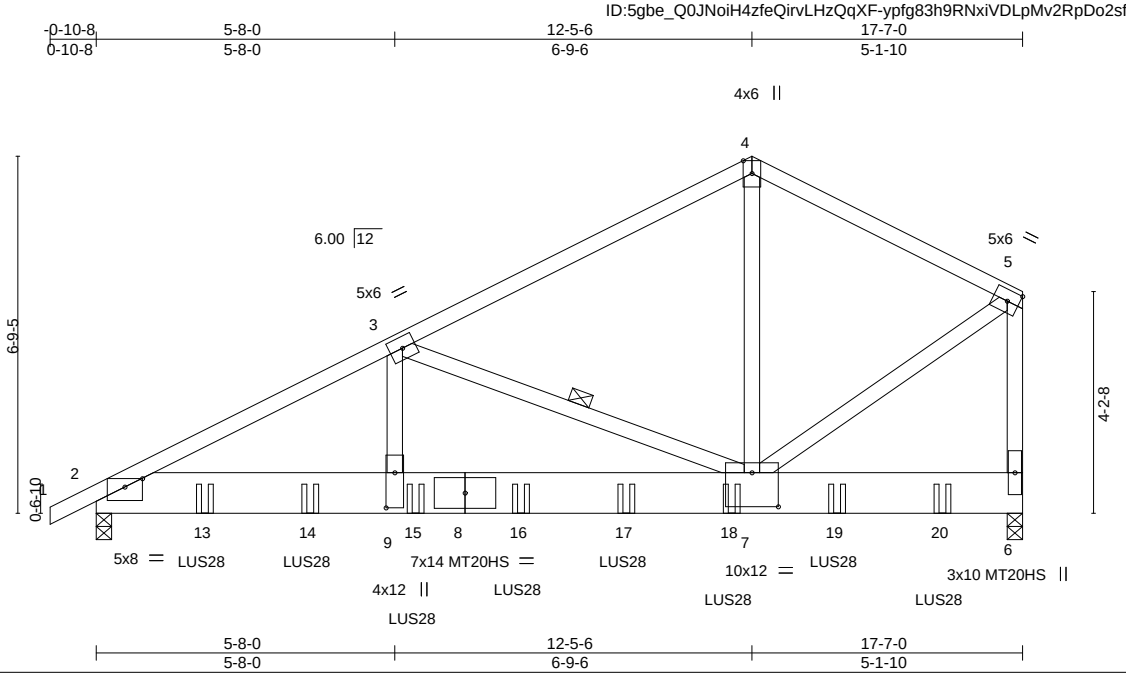

Plate Offsets (X,Y)-- [2:0-4-0,0-1-15], [7:0-6-0,0-7-12], [9:0-8-0,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	0.15	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.21	7-9	>986	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 272 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-7

REACTIONS. (size) 2=0-3-8 (req. 0-3-9), 6=0-3-8 (req. 0-3-14)
Max Horz 2=268(LC 26)
Max Uplift 2=-2396(LC 8), 6=-1819(LC 8)
Max Grav 2=6020(LC 1), 6=6575(LC 1)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-10303/4023, 3-4=-4884/1584, 4-5=-4852/1618, 5-6=-5453/1762
BOT CHORD 2-9=-3647/9188, 7-9=-3647/9188
WEBS 3-9=-1836/4130, 3-7=-5321/2540, 4-7=-1249/3969, 5-7=-1682/5299

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-7-0 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 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) 2, 6 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) 2=2396, 6=1819.
10) Use Simpson Strong-Tie LUS28 (6-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) to back face of bottom chord.
11) Use Simpson Strong-Tie LUS28 (6-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 12-0-12 from the left end to 16-0-12 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-5=-60, 6-10=-20
   Concentrated Loads (lb)
   Vert: 13=-1356(B) 14=-1356(B) 15=-1356(B) 16=-1356(B) 17=-1356(B) 18=-1456(B) 19=-1456(B) 20=-1456(B)

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	D04	Common Supported Gable	2	1	I43319789
					Job Reference (optional)

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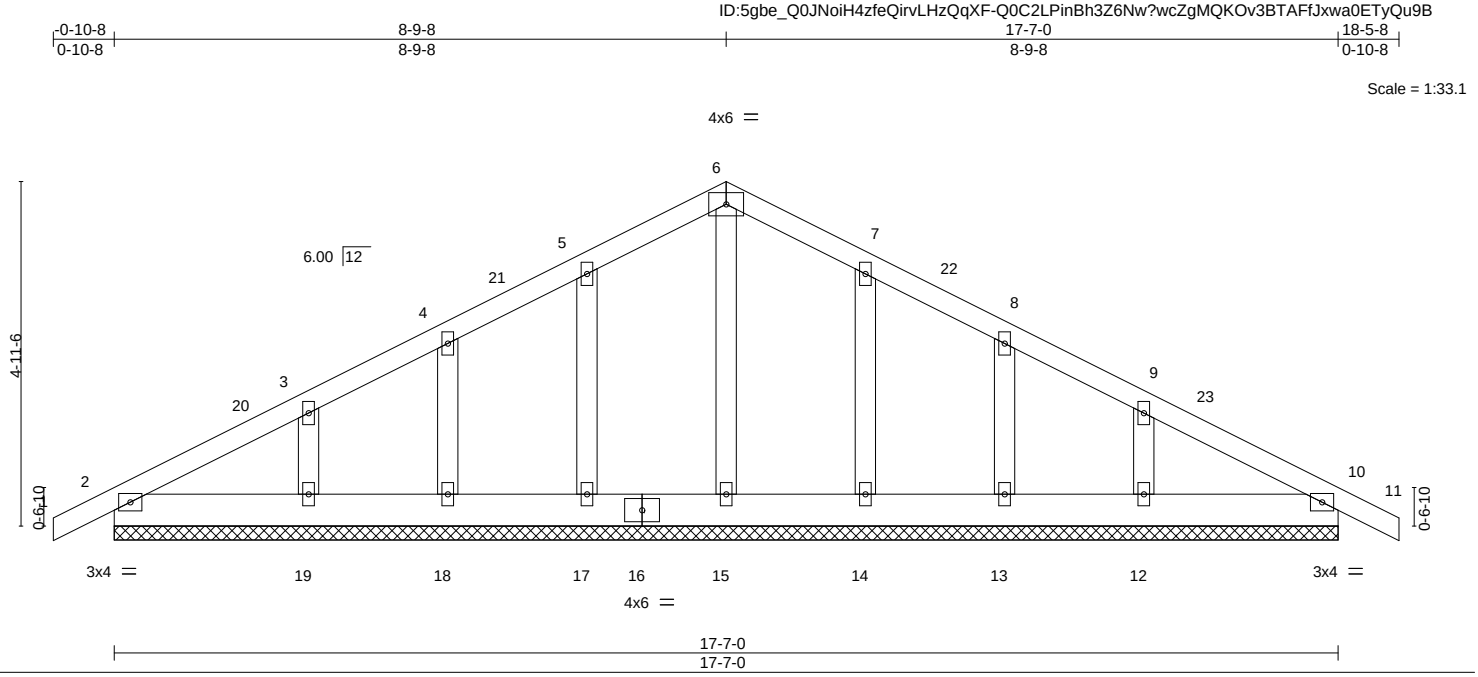

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 100 lb	FT = 20%

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

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

REACTIONS. All bearings 17-7-0.
(lb) - Max Horz 2=145(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 17=-136(LC 12), 18=-109(LC 12), 19=-181(LC 12), 14=-135(LC 13), 13=-109(LC 13), 12=-179(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 15, 17, 18, 19, 14, 13, 12, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-88/262, 6-7=-88/264
WEBS 5-17=-131/285, 3-19=-150/263, 7-14=-131/285, 9-12=-150/263

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 8-9-8, Corner(3) 8-9-8 to 11-9-8, Exterior(2) 11-9-8 to 18-5-8 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) 2, 10 except (jt=lb) 17=136, 18=109, 19=181, 14=135, 13=109, 12=179.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10.

October 23,2020

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	D05	Common	2	1	I43319790
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:15 2020 Page 1
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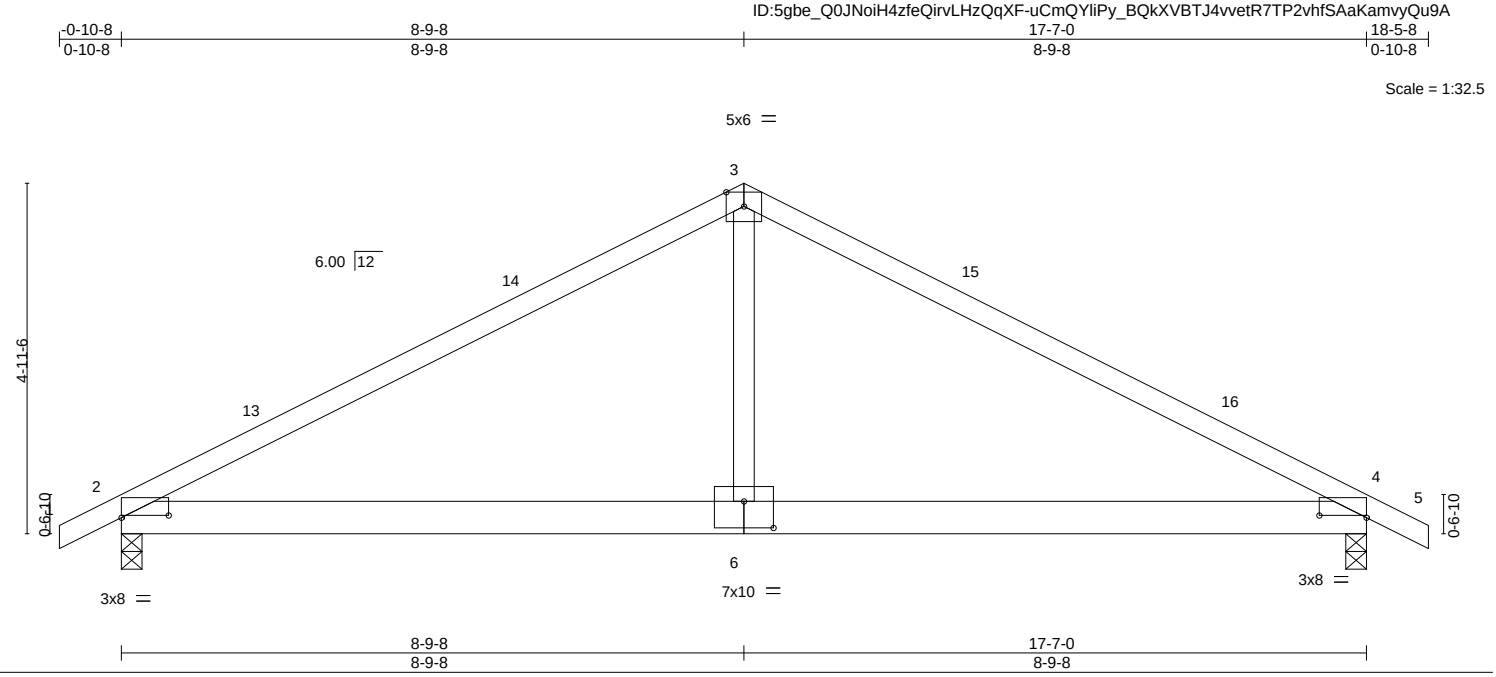

Plate Offsets (X,Y)-- [2:0-8-0,0-0-6], [4:0-8-0,0-0-6], [6:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.12	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.12	6-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS							Weight: 80 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-145(LC 13)
Max Uplift 2=-358(LC 12), 4=-358(LC 13)
Max Grav 2=756(LC 1), 4=756(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1002/480, 3-4=-1002/480
BOT CHORD 2-6=-257/795, 4-6=-257/795
WEBS 3-6=0/429

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-9-8, Exterior(2) 8-9-8 to 11-9-8, Interior(1) 11-9-8 to 18-5-8 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) 2=358, 4=358.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

October 23,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	D06	Common	6	1	I43319791
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:16 2020 Page 1
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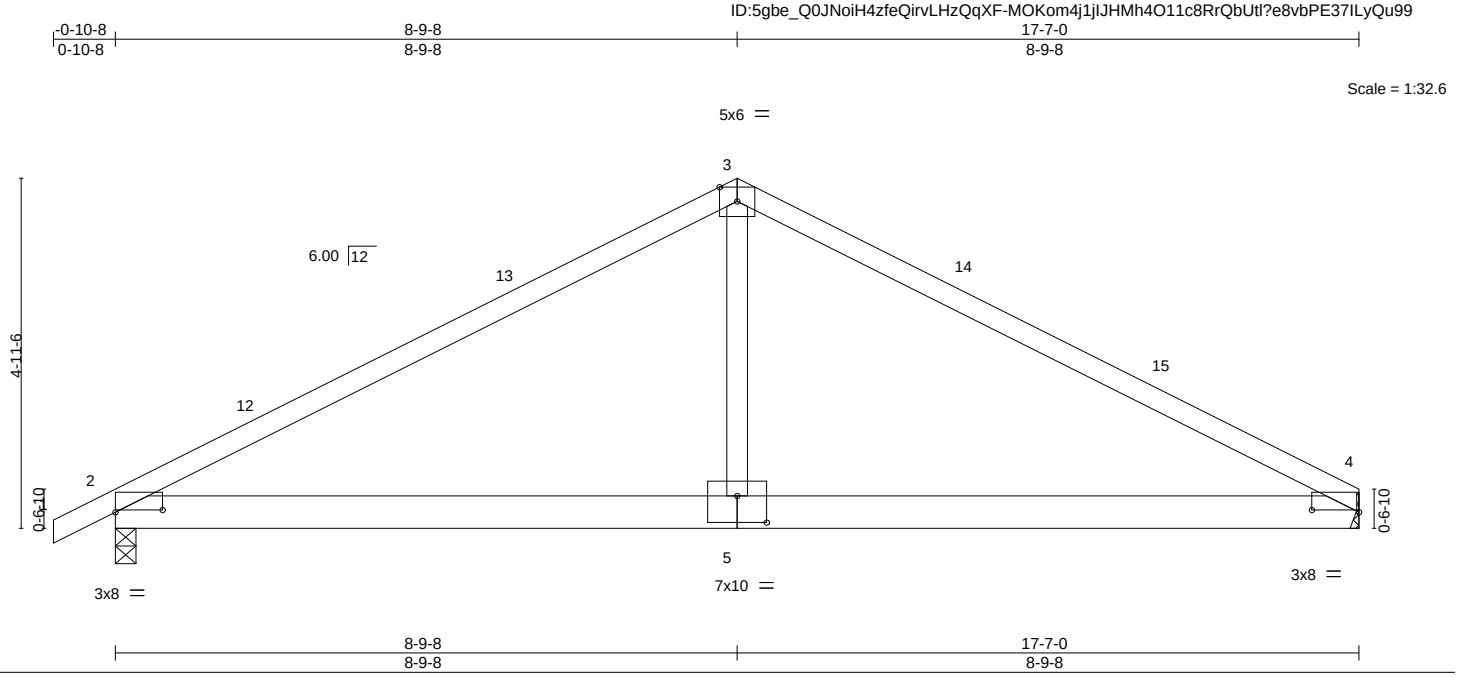

Plate Offsets (X,Y)-- [2:0-8-0,0-0-6], [4:0-8-0,0-0-6], [5:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.12	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.13	5-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS							Weight: 78 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8
Max Horz 2=158(LC 16)
Max Uplift 4=-315(LC 13), 2=-358(LC 12)
Max Grav 4=702(LC 1), 2=757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1006/482, 3-4=-1006/496
BOT CHORD 2-5=-271/799, 4-5=-271/799
WEBS 3-5=-6/430

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-9-8, Exterior(2) 8-9-8 to 11-9-8, Interior(1) 11-9-8 to 17-7-0 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) 4=315, 2=358.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

October 23,2020

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	D07	Common Supported Gable	2	1	I43319792
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:17 2020 Page 1
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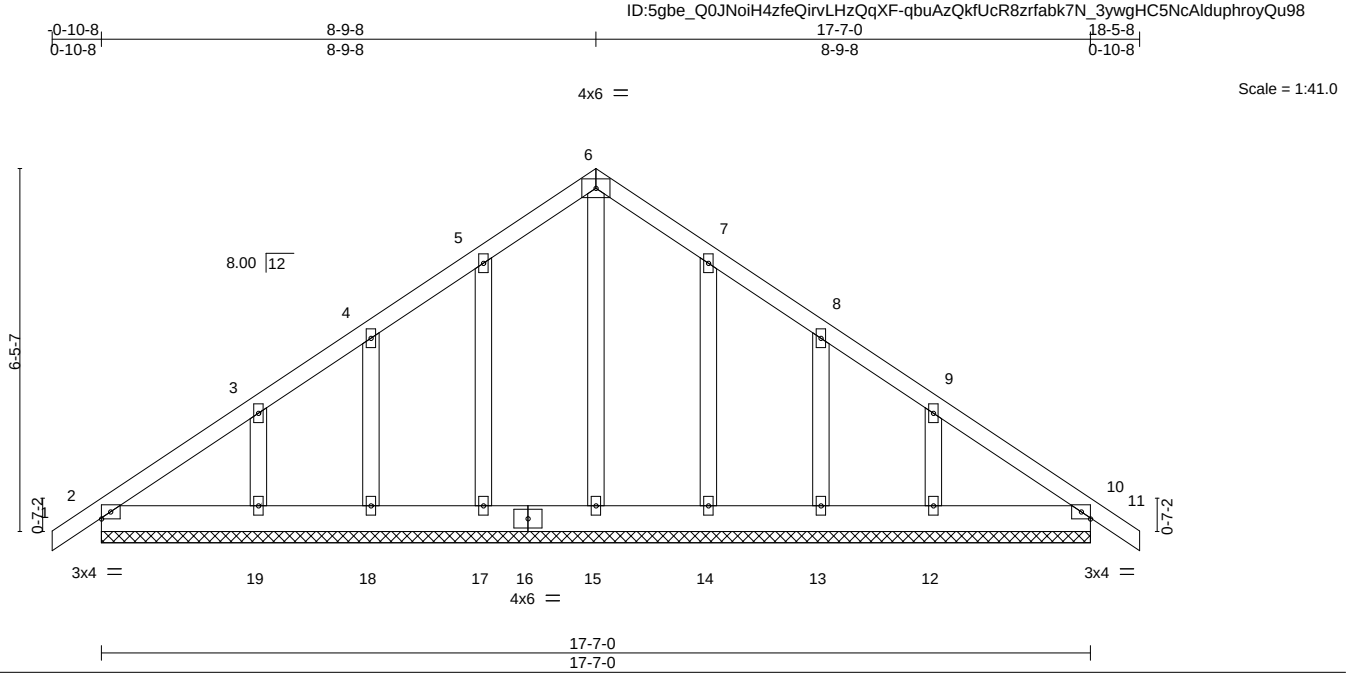

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 112 lb	FT = 20%

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

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

REACTIONS. All bearings 17-7-0.
(lb) - Max Horz 2=-286(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 17=-162(LC 12), 18=-133(LC 12), 19=-226(LC 12), 14=-160(LC 13), 13=-134(LC 13), 12=-223(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 15, 17, 18, 14, 13, 10 except 19=274(LC 19), 12=271(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-19=-264/236, 9-12=-264/234

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 8-9-8, Corner(3) 8-9-8 to 11-9-8, Exterior(2) 11-9-8 to 18-5-8 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) 2, 10 except (jt=lb) 17=162, 18=133, 19=226, 14=160, 13=134, 12=223.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10.

October 23,2020

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TRENCO
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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	D08	Common	2	1	I43319793
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:18 2020 Page 1
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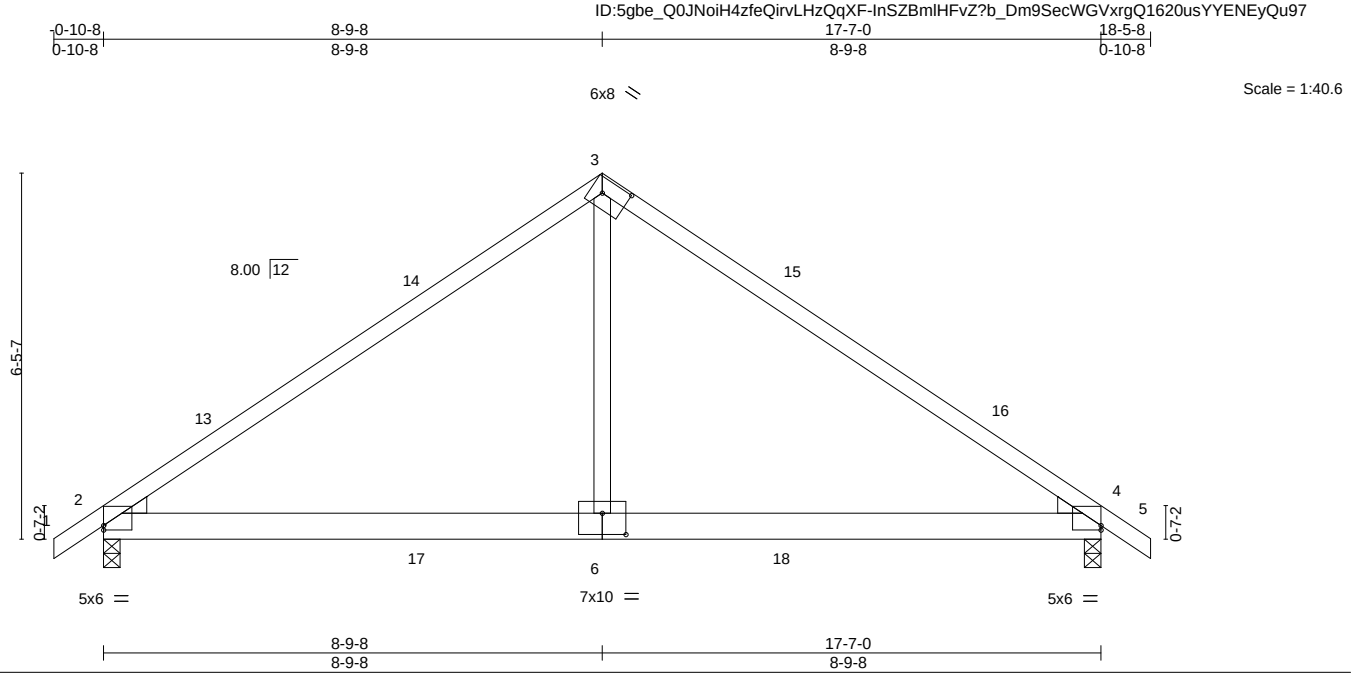

Plate Offsets (X,Y)-- [2:0-0-0,0-0-15], [3:0-5-7,0-3-0], [4:Edge,0-0-15], [6:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.13	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.12	6-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS							Weight: 86 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-286(LC 10)
Max Uplift 2=-344(LC 12), 4=-344(LC 13)
Max Grav 2=823(LC 19), 4=823(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-976/395, 3-4=-975/395
BOT CHORD 2-6=-171/778, 4-6=-171/778
WEBS 3-6=-16/463

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-9-8, Exterior(2) 8-9-8 to 11-9-8, Interior(1) 11-9-8 to 18-5-8 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=344, 4=344.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

October 23,2020

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	D09	Common	6	1	I43319794
					Job Reference (optional)

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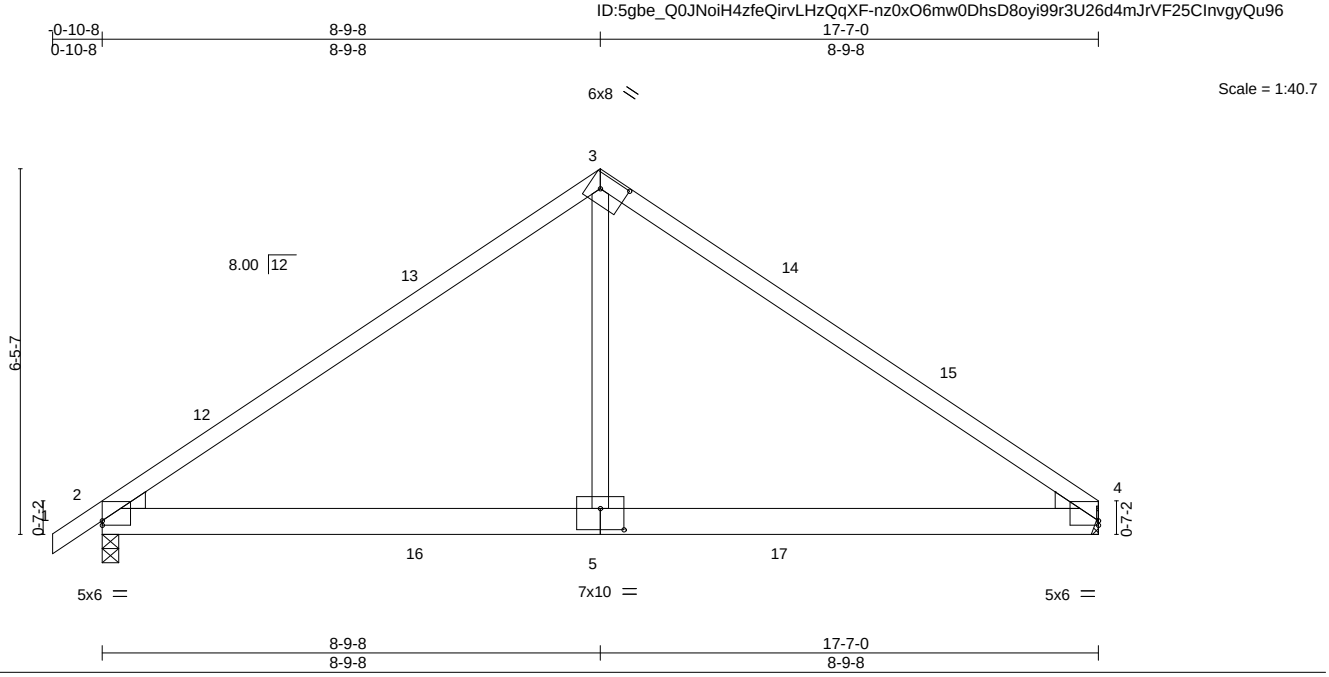

Plate Offsets (X,Y)-- [2:Edge,0-0-15], [3:0-5-7,0-3-0], [4:0-0-0,0-0-15], [5:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.13	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.12	5-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 84 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 2=0-3-8
Max Horz 2=278(LC 9)
Max Uplift 4=-302(LC 13), 2=-345(LC 12)
Max Grav 4=768(LC 20), 2=824(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-979/398, 3-4=-977/400
BOT CHORD 2-5=-189/766, 4-5=-189/766
WEBS 3-5=-23/466

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-9-8, Exterior(2) 8-9-8 to 11-9-8, Interior(1) 11-9-8 to 17-7-0 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) 4=302, 2=345.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

October 23,2020

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	E04	COMMON	5	1	I43319795
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:20 2020 Page 1
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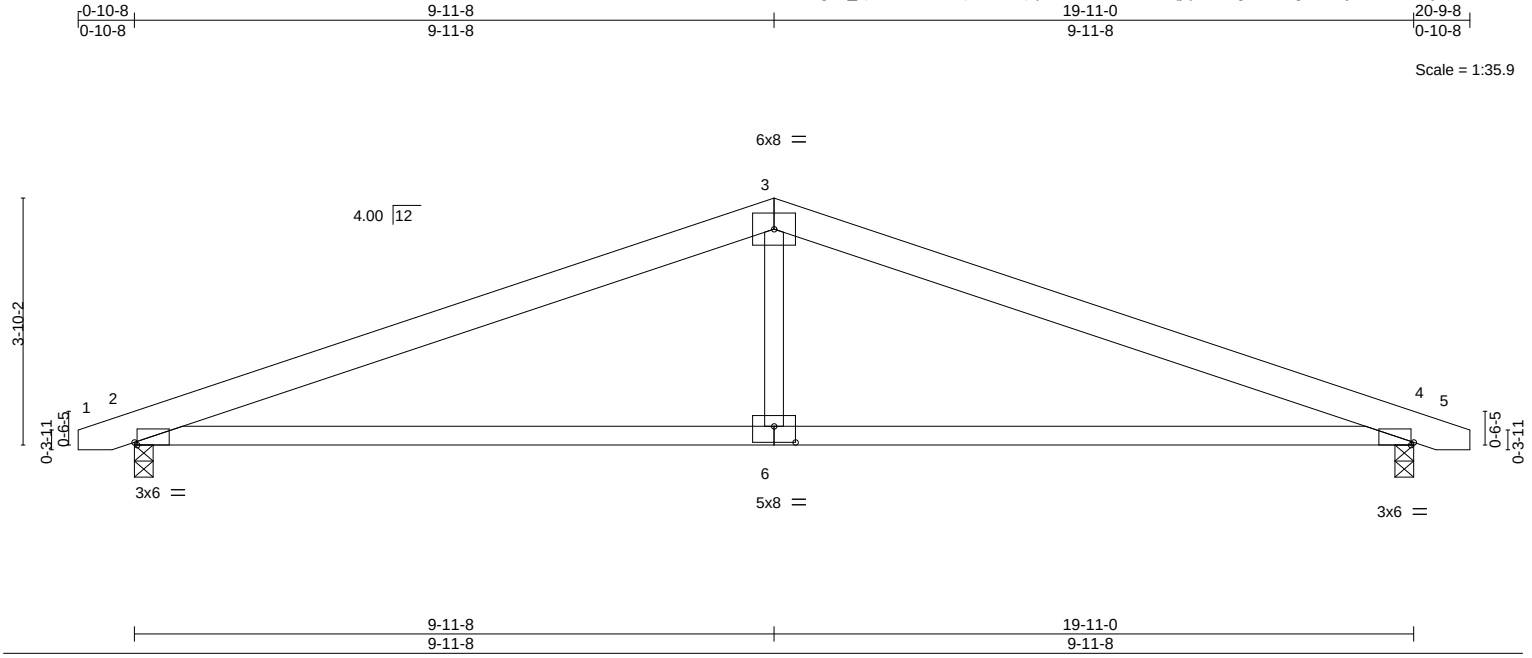

Plate Offsets (X,Y)-- [2:0-0-8,Edge], [4:0-0-8,Edge], [6:0-4-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.12	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.29	6-9	>834	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.03	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.12	6-9	>999	240	Weight: 88 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-63(LC 13)
Max Uplift 2=-245(LC 8), 4=-245(LC 9)
Max Grav 2=833(LC 1), 4=833(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1459/961, 3-4=-1459/961
BOT CHORD 2-6=-758/1335, 4-6=-758/1335
WEBS 3-6=0/398

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 2=245, 4=245.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

October 23,2020

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	E05	Common Supported Gable	1	1	I43319796
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:21 2020 Page 1
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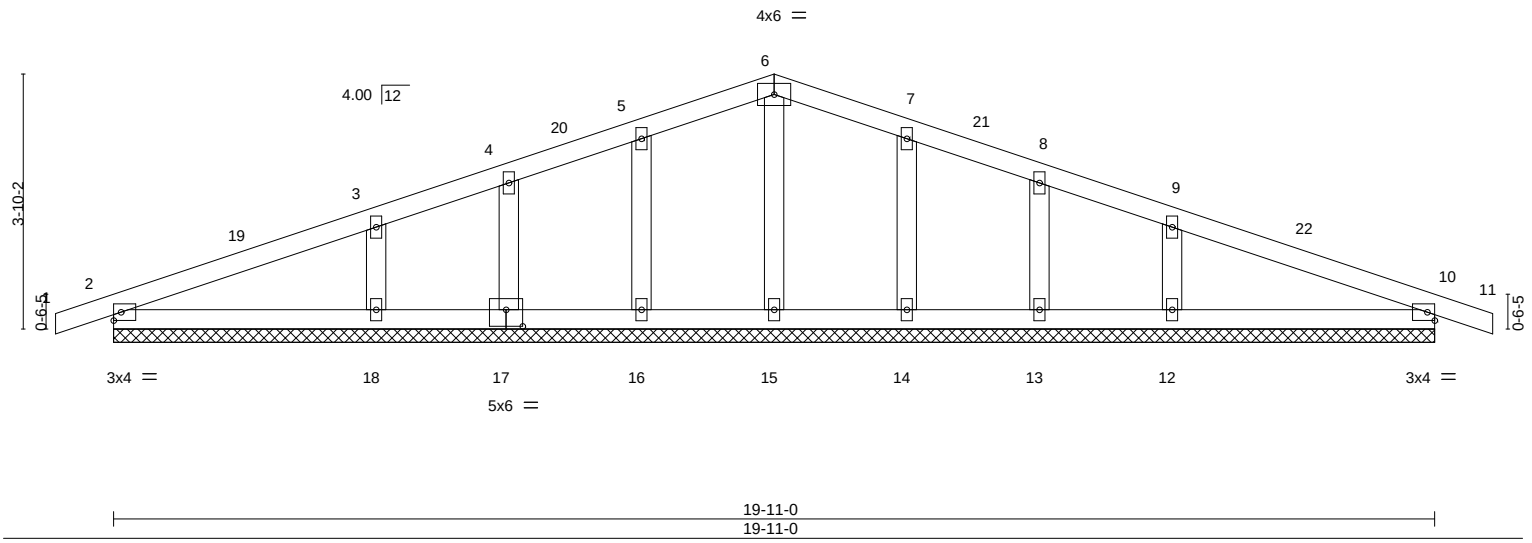


19-11-0
19-11-0

Plate Offsets (X,Y)-- [17:0-3-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.00	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 86 lb	FT = 20%

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

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

REACTIONS. All bearings 19-11-0.
(lb) - Max Horz 2=108(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 17, 13 except 2=-127(LC 8), 16=-124(LC 12), 18=-215(LC 12), 14=-124(LC 13), 12=-212(LC 13), 10=-141(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 2, 15, 16, 17, 14, 13, 10 except 18=311(LC 23), 12=311(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-16=-139/263, 3-18=-222/306, 7-14=-139/263, 9-12=-222/306

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 9-11-8, Corner(3) 9-11-8 to 12-11-8, Exterior(2) 12-11-8 to 20-9-8 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) 17, 13 except (jt=lb) 2=127, 16=124, 18=215, 14=124, 12=212, 10=141.

October 23,2020

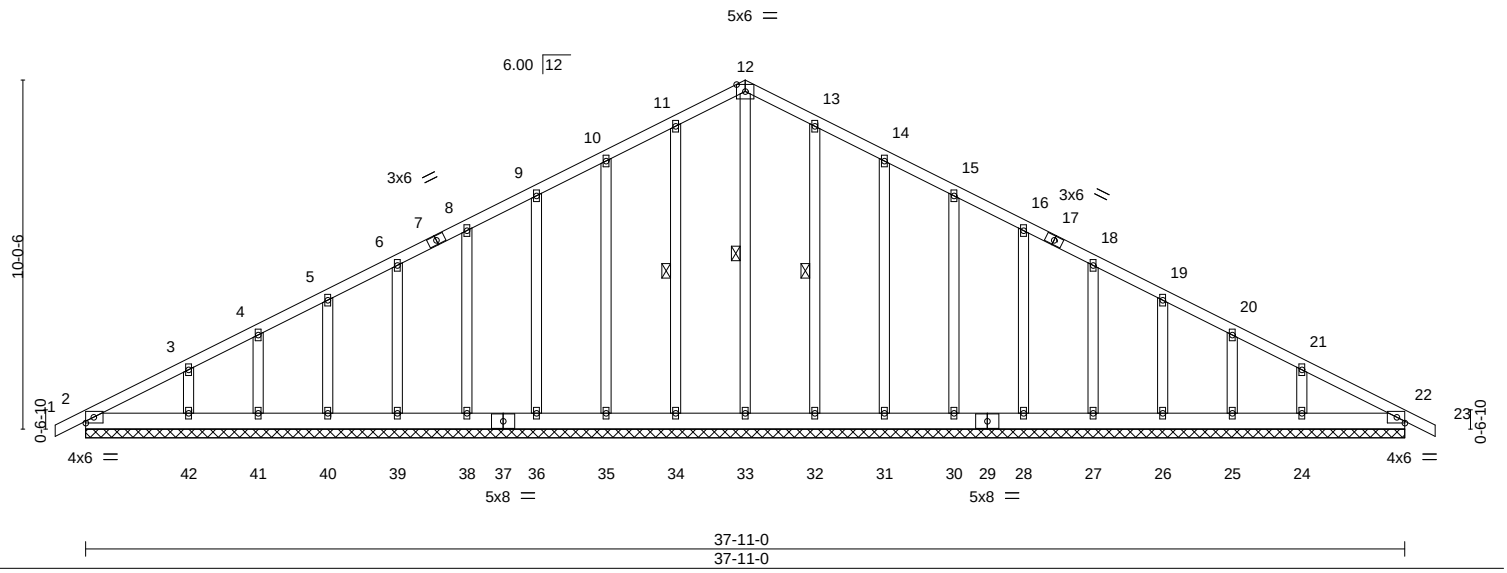
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G01	Common Supported Gable	2	1	I43319797
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:23 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-flFSEUpQ4SCHhm6kx?EnDKCwKhE5nJ8d0pG?2RyQu92

-0-10-8 18-11-8 37-11-0 38-9-8
0-10-8 18-11-8 18-11-8 0-10-8

Scale = 1:66.2



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	22	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	22	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 283 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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.
WEBS 1 Row at midpt 12-33, 11-34, 13-32

REACTIONS. All bearings 37-11-0.
(lb) - Max Horz 2=297(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 22 except 34=-120(LC 12), 35=-130(LC 12), 36=-125(LC 12), 38=-126(LC 12), 39=-124(LC 12), 40=-130(LC 12), 41=-106(LC 12), 42=-202(LC 12), 32=-116(LC 13), 31=-132(LC 13), 30=-124(LC 13), 28=-126(LC 13), 27=-124(LC 13), 26=-130(LC 13), 25=-106(LC 13), 24=-197(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 34, 35, 36, 38, 39, 40, 41, 42, 32, 31, 30, 28, 27, 26, 25, 24, 22 except 33=259(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-388/117, 3-4=-269/117, 8-9=-86/275, 9-10=-116/360, 10-11=-147/450, 11-12=-175/527, 12-13=-175/528, 13-14=-147/451, 14-15=-116/361, 15-16=-86/276, 21-22=-299/101
BOT CHORD 2-42=-99/340, 41-42=-99/340, 40-41=-99/340, 39-40=-99/340, 38-39=-99/340, 36-38=-99/340, 35-36=-99/340, 34-35=-99/340, 33-34=-99/340, 32-33=-99/340, 31-32=-99/340, 30-31=-99/340, 28-30=-99/340, 27-28=-99/340, 26-27=-99/340, 25-26=-99/340, 24-25=-99/340, 22-24=-99/340
WEBS 12-33=-273/54, 11-34=-128/274, 3-42=-157/325, 13-32=-128/274, 21-24=-157/325

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-11-8, Exterior(2) 2-11-8 to 18-11-8, Corner(3) 18-11-8 to 22-11-8, Exterior(2) 22-11-8 to 38-9-8 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) 2, 22 except (jt=lb) 34=120, 35=130, 36=125, 38=126, 39=124, 40=130, 41=106, 42=202, 32=116, 31=132, 30=124, 28=126, 27=124, 26=130, 25=106, 24=197.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 22.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G02	Common	12	1	I43319798
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:24 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-7xpqRpp2rIK8JvhwVil0mXlv25UiWe8nET?YauyQu91

-0-10-8 5-0-0 10-0-0 18-11-8 27-11-0 32-11-0 37-11-0 38-9-8
0-10-8 5-0-0 5-0-0 8-11-8 8-11-8 5-0-0 5-0-0 0-10-8

Scale = 1:67.3

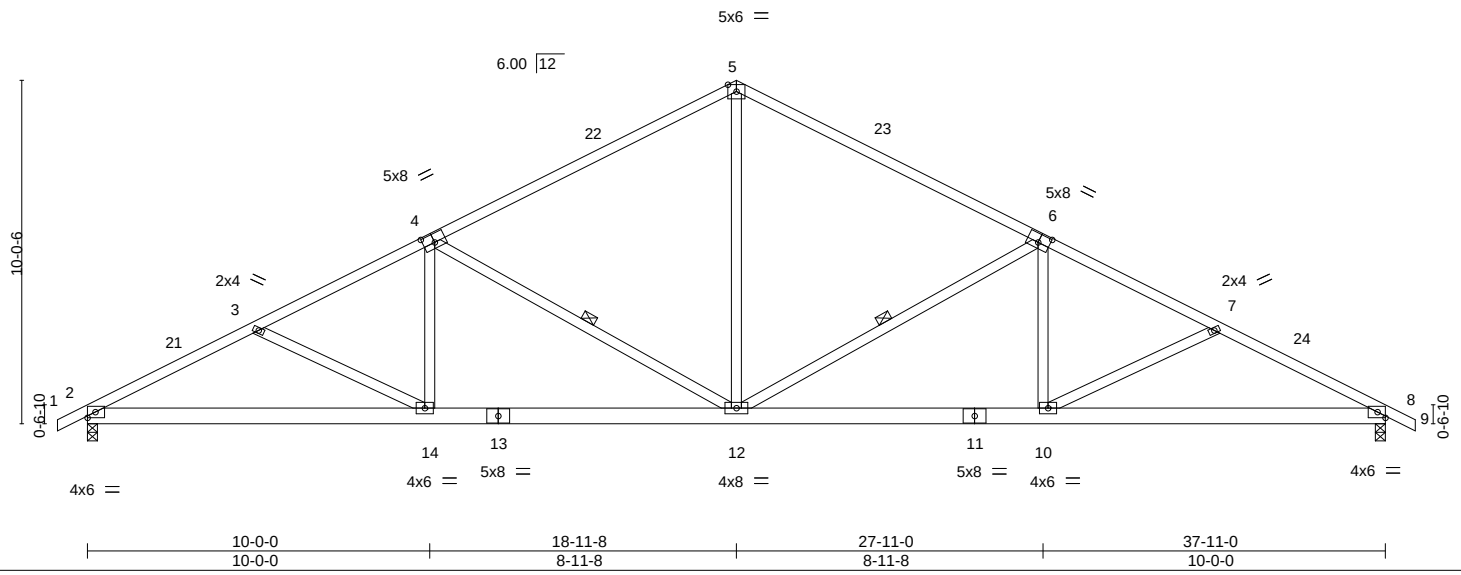

Plate Offsets (X,Y)-- [4:0-4-0,0-3-0], [6:0-4-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.14	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.29	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.20	12-14	>999	240	Weight: 229 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-12, 4-12

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-297(LC 13)
Max Uplift 2=-724(LC 12), 8=-724(LC 13)
Max Grav 2=1569(LC 1), 8=1569(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2799/1270, 3-4=-2542/1140, 4-5=-1836/952, 5-6=-1837/952, 6-7=-2542/1140, 7-8=-2799/1272
BOT CHORD 2-14=-1294/2440, 12-14=-1037/2230, 10-12=-785/2230, 8-10=-998/2440
WEBS 5-12=-375/1009, 6-12=-835/666, 6-10=-3/423, 4-12=-835/665, 4-14=-1/423, 3-14=-231/286, 7-10=-231/288

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 18-11-8, Exterior(2) 18-11-8 to 22-9-0 , Interior(1) 22-9-0 to 38-9-8 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=724, 8=724.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

October 23,2020

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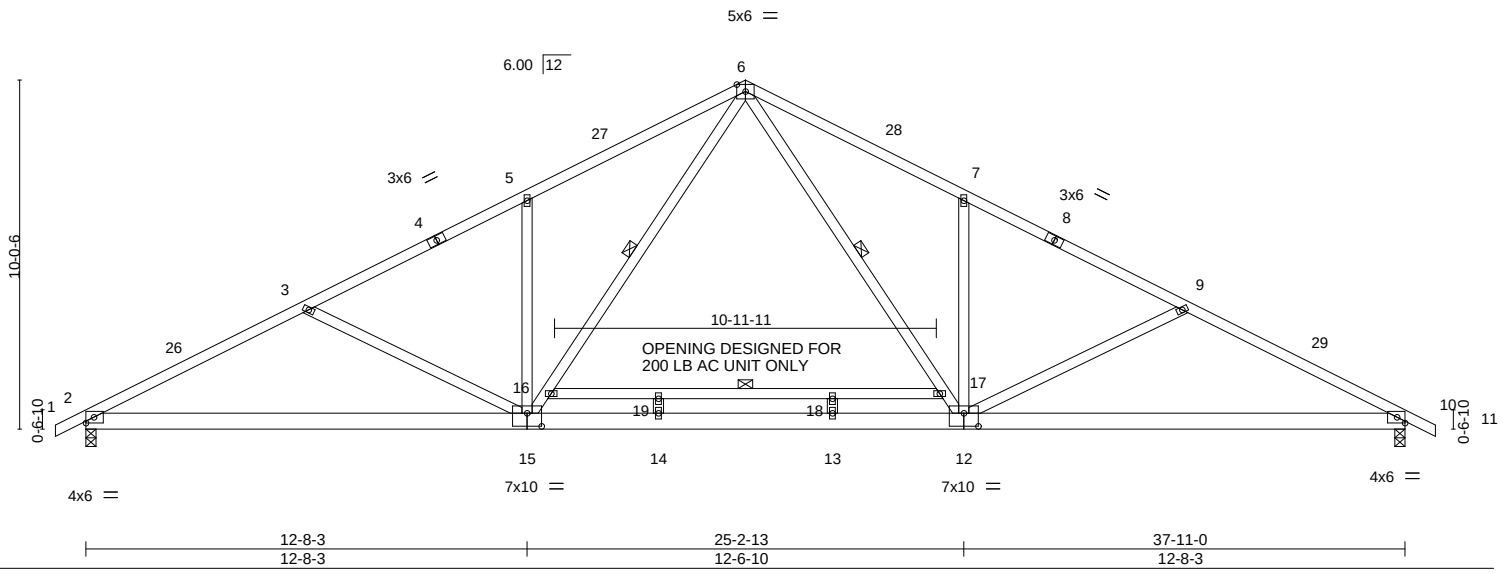
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G02A	Common	4	1	I43319799
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:26 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-3KxasVrJNNasYDrJd7nUryqMOv4u_aQ4inUffmyQu9?

-0-10-8	6-4-14	12-8-3	18-11-8	25-2-13	31-6-2	37-11-0	38-9-8
0-10-8	6-4-14	6-3-5	6-3-5	6-3-5	6-3-5	6-4-14	0-10-8

Scale = 1:66.2



12-8-3	25-2-13	37-11-0
12-8-3	12-6-10	12-8-3

Plate Offsets (X,Y)-- [12:0-5-0,0-4-8], [15:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.17	12-25	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.56	13-14	>816	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.22	13-14	>999	240	Weight: 245 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
16-17: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-12, 6-15, 16-17

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-297(LC 13)
Max Uplift 2=-624(LC 12), 10=-624(LC 13)
Max Grav 2=1669(LC 1), 10=1669(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2989/1041, 3-5=-2596/827, 5-6=-2601/1035, 6-7=-2601/1035, 7-9=-2596/827, 9-10=-2989/1042
BOT CHORD 2-15=-1076/2604, 14-15=-300/1626, 13-14=-300/1626, 12-13=-300/1626, 10-12=-779/2604
WEBS 6-17=-565/1145, 12-17=-585/1129, 7-12=-407/507, 9-12=-405/508, 15-16=-587/1129, 6-16=-565/1145, 5-15=-407/508, 3-15=-405/507

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 18-11-8, Exterior(2) 18-11-8 to 22-9-0 , Interior(1) 22-9-0 to 38-9-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=624, 10=624.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

October 23,2020

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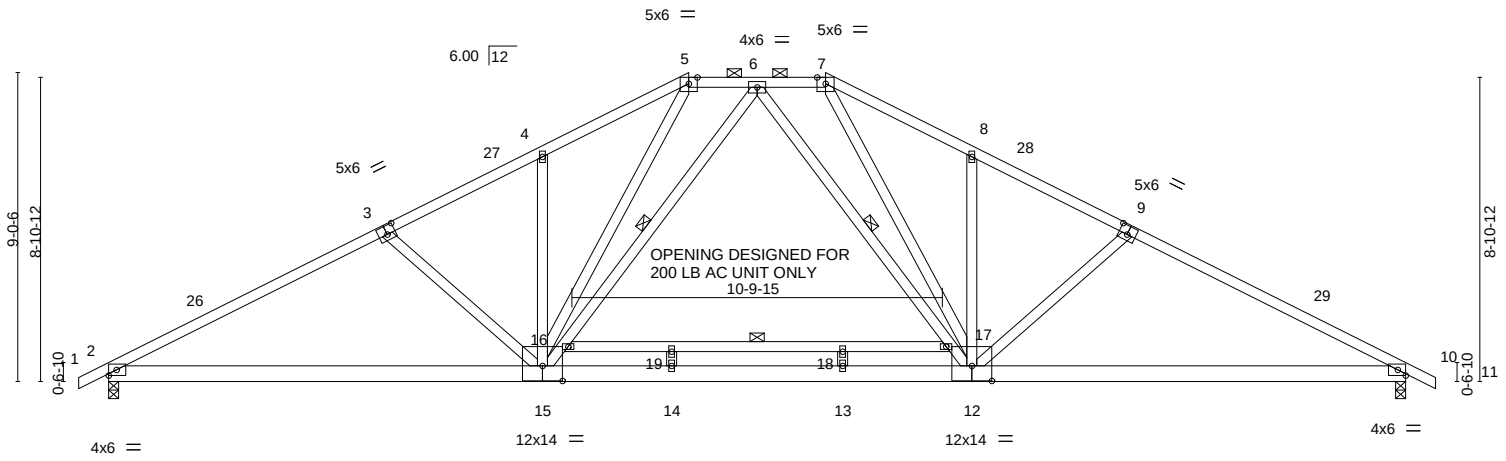
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G03	Hip	2	1	I43319800
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:28 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-0i3LHBsZu_qaoX_hkYpywNwfKilESUxM95zmjfyQu8z

-0-10-8	8-1-12	12-8-3	16-11-8	18-11-8	20-11-8	25-2-13	29-9-4	37-11-0	38-9-8
0-10-8	8-1-12	4-6-7	4-3-5	2-0-0	2-0-0	4-3-5	4-6-7	8-1-12	0-10-8

Scale = 1:67.4



12-8-3	25-2-13	37-11-0
12-8-3	12-6-10	12-8-3

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [9:0-3-0,0-3-0], [12:0-7-0,0-5-4], [15:0-7-0,0-5-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.17	12-25	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.50	13-14	>912	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.21	15-22	>999	240	Weight: 265 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
16-17: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-2-5 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-15, 6-12, 16-17

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-265(LC 13)
Max Uplift 2=-600(LC 12), 10=-600(LC 13)
Max Grav 2=1669(LC 1), 10=1669(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2911/1049, 3-4=-2570/948, 4-5=-2527/1099, 5-6=-1809/935, 6-7=-1809/935, 7-8=-2527/1099, 8-9=-2570/948, 9-10=-2911/1049
BOT CHORD 2-15=-878/2511, 14-15=-364/1818, 13-14=-364/1818, 12-13=-364/1818, 10-12=-782/2511
WEBS 3-15=-385/481, 4-15=-191/293, 5-16=-255/181, 12-17=-255/179, 8-12=-191/293, 9-12=-385/482, 5-15=-305/941, 7-12=-305/941

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 16-11-8, Exterior(2) 16-11-8 to 26-3-14, Interior(1) 26-3-14 to 38-9-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=600, 10=600.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 23,2020

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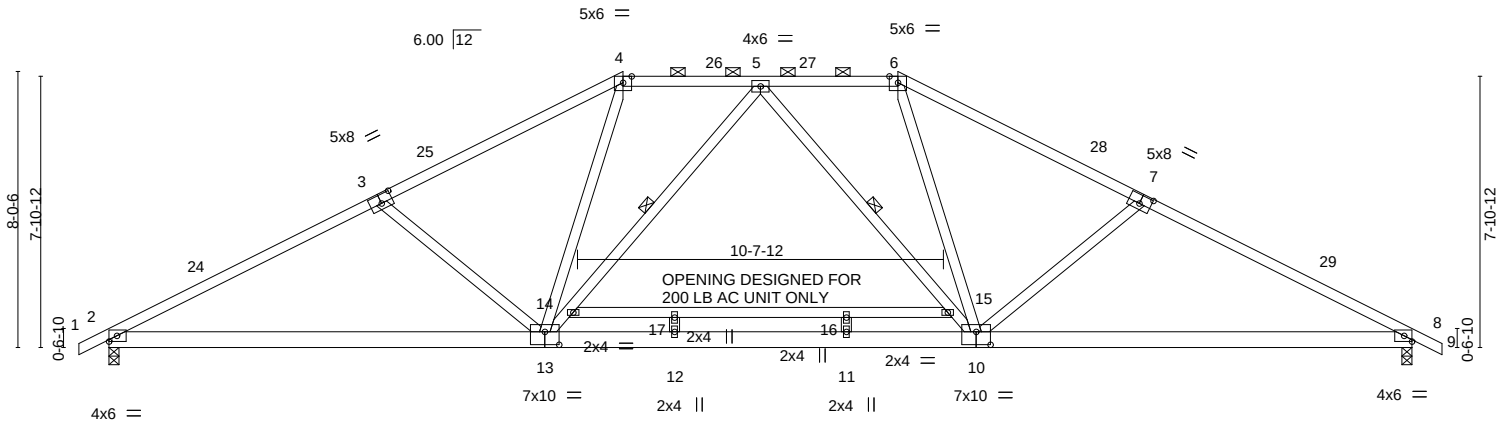
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G04	Hip	2	1	I43319801
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:29 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-UucjVXtBfIyRPhZtIGKBTbSr5659BzSWOljJF5yQu8y

-0-10-8	7-11-3	14-11-8	18-11-8	22-11-8	29-11-13	37-11-0	38-9-8
0-10-8	7-11-3	7-0-5	4-0-0	4-0-0	7-0-5	7-11-3	0-10-8

Scale = 1:67.0



12-8-3	25-2-13	37-11-0
12-8-3	12-6-10	12-8-3

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [7:0-4-0,0-3-0], [10:0-5-0,0-4-8], [13:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.17	10-23	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.50	11-12	>904	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.17	13-20	>999	240	Weight: 240 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
14-15: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-11-7 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-13, 5-10

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-235(LC 13)
Max Uplift 2=-572(LC 12), 8=-572(LC 13)
Max Grav 2=1669(LC 1), 8=1669(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2936/1138, 3-4=-2567/986, 4-5=-1982/959, 5-6=-1982/959, 6-7=-2567/986, 7-8=-2936/1138
BOT CHORD 2-13=-867/2541, 12-13=-501/2069, 11-12=-501/2069, 10-11=-501/2069, 8-10=-875/2541
WEBS 3-13=-437/574, 4-13=-165/816, 13-14=-347/246, 5-14=-337/273, 5-15=-337/273, 10-15=-347/245, 6-10=-165/816, 7-10=-437/574

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 14-11-8, Exterior(2) 14-11-8 to 20-3-14, Interior(1) 20-3-14 to 22-11-8, Exterior(2) 22-11-8 to 28-3-14, Interior(1) 28-3-14 to 38-9-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=572, 8=572.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 23,2020

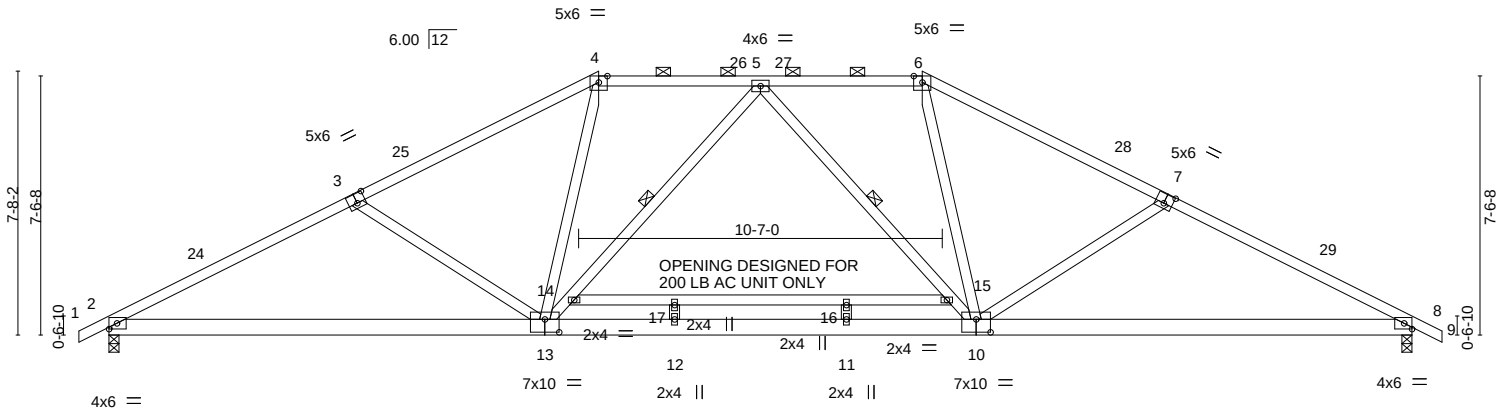
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G05	Hip	2	1	I43319802
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:31 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-QHkTvDvRBvC9f_jGPhNfY0XBownYftRpr3CQJ_yQu8w

-0-10-8	7-2-11	14-3-0	18-11-8	23-8-0	30-8-5	37-11-0	38-9-8
0-10-8	7-2-11	7-0-5	4-8-8	4-8-8	7-0-5	7-2-11	0-10-8

Scale = 1:67.0



12-8-3	25-2-13	37-11-0
12-8-3	12-6-10	12-8-3

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [7:0-3-0,0-3-4], [10:0-5-0,0-4-8], [13:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.17	10-23	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.52	11-12	>880	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.17	12	>999	240	Weight: 238 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
14-15: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-10-8 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-13, 5-10

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=225(LC 16)
Max Uplift 2=-561(LC 12), 8=-561(LC 13)
Max Grav 2=1669(LC 1), 8=1669(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2965/1176, 3-4=-2575/974, 4-5=-2059/962, 5-6=-2059/962, 6-7=-2575/974, 7-8=-2965/1176
BOT CHORD 2-13=-914/2575, 12-13=-549/2173, 11-12=-549/2173, 10-11=-549/2173, 8-10=-921/2575
WEBS 3-13=-433/576, 4-13=-137/795, 13-14=-372/272, 5-14=-365/302, 5-15=-365/302, 10-15=-372/270, 6-10=-137/795, 7-10=-433/576

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 14-3-0, Exterior(2) 14-3-0 to 19-7-6, Interior(1) 19-7-6 to 23-8-0, Exterior(2) 23-8-0 to 29-0-6, Interior(1) 29-0-6 to 38-9-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=561, 8=561.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 23,2020

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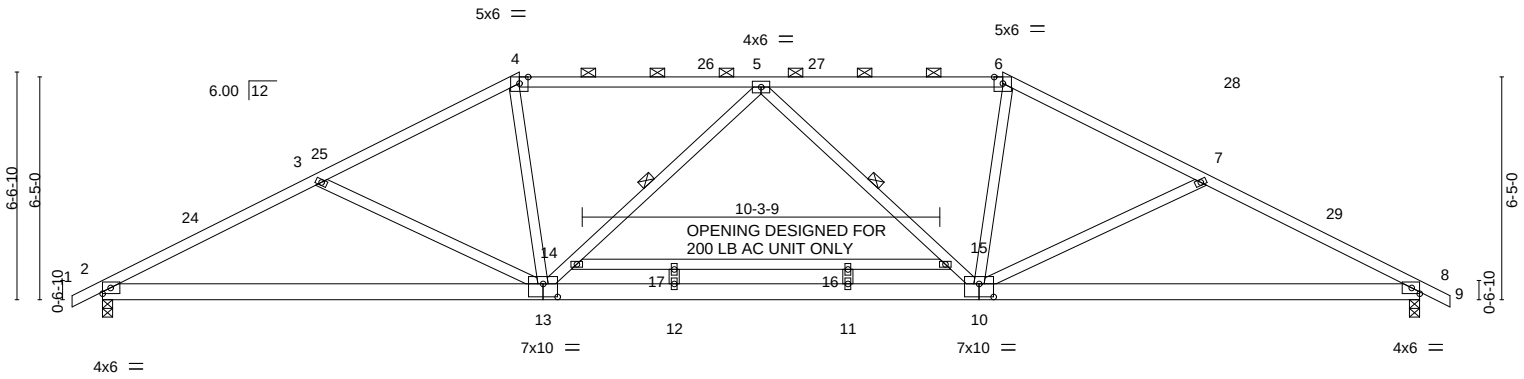
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G06	Hip	2	1	I43319803
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:33 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-MgsEKuwijWSsuItfX5P7dRdWqjST7n56JNhXOsyQu8u

-0-10-8	6-3-10	12-0-0	18-11-8	25-11-0	31-7-6	37-11-0	38-9-8
0-10-8	6-3-10	5-8-6	6-11-8	6-11-8	5-8-6	6-3-10	0-10-8

Scale = 1:66.3



12-8-3	25-2-13	37-11-0
12-8-3	12-6-10	12-8-3

Plate Offsets (X,Y)-- [10:0-5-0,0-4-8], [13:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.16	10-23	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.54	11-12	>840	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.20	11-12	>999	240	Weight: 233 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
14-15: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-0-1 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-13, 5-10

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=191(LC 16)
Max Uplift 2=-523(LC 12), 8=-523(LC 13)
Max Grav 2=1669(LC 1), 8=1669(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2987/1232, 3-4=-2622/993, 4-5=-2375/995, 5-6=-2375/995, 6-7=-2622/993, 7-8=-2987/1232
BOT CHORD 2-13=-974/2602, 12-13=-736/2594, 11-12=-736/2594, 10-11=-736/2594, 8-10=-982/2602
WEBS 3-13=-357/513, 4-13=-114/782, 13-14=-465/365, 5-14=-474/411, 5-15=-474/411, 10-15=-465/364, 6-10=-114/782, 7-10=-357/514

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 12-0-0, Exterior(2) 12-0-0 to 17-4-6, Interior(1) 17-4-6 to 25-11-0, Exterior(2) 25-11-0 to 31-3-6, Interior(1) 31-3-6 to 38-9-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=523, 8=523.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 23,2020

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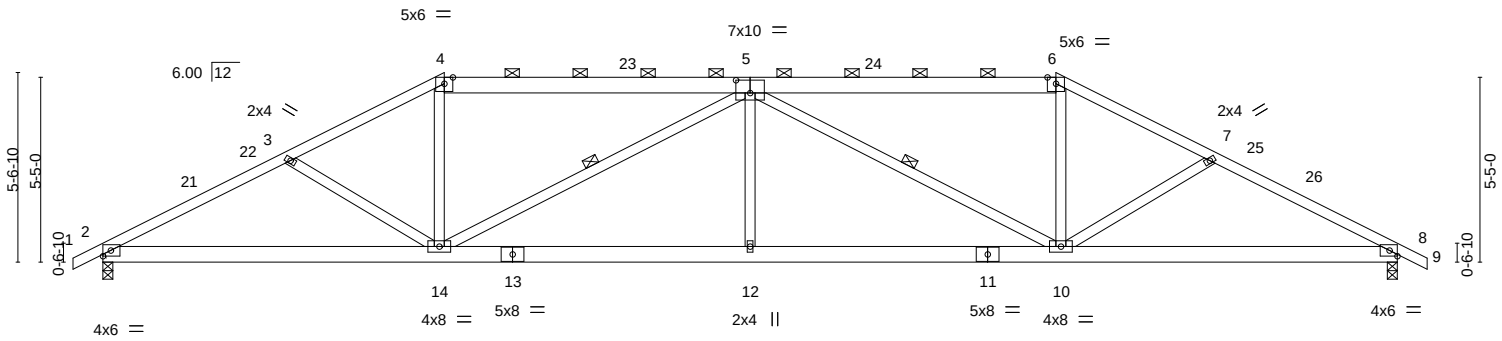
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G07	Hip	2	1	I43319804
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:34 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-qsQcYExKUqajWSSr5pwMAe9kU7t5sBKFX1Q4wIyQu8t

-0-10-8	5-5-15	10-0-0	18-11-8	27-11-0	32-5-1	37-11-0	38-9-8
0-10-8	5-5-15	4-6-1	8-11-8	8-11-8	4-6-1	5-5-15	0-10-8

Scale = 1:67.5



10-0-0	18-11-8	27-11-0	37-11-0
10-0-0	8-11-8	8-11-8	10-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.17	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.34	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.25	12	>999	240	Weight: 232 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-5,5-6: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-4-12 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-14, 5-10

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-161(LC 13)
Max Uplift 2=-584(LC 12), 8=-584(LC 13)
Max Grav 2=1569(LC 1), 8=1569(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2798/1473, 3-4=-2550/1330, 4-5=-2232/1267, 5-6=-2232/1267, 6-7=-2550/1330, 7-8=-2798/1473
BOT CHORD 2-14=-1194/2436, 12-14=-1305/3010, 10-12=-1305/3010, 8-10=-1201/2436
WEBS 3-14=-234/361, 4-14=-247/730, 5-14=-1001/625, 5-12=0/348, 5-10=-1001/625, 6-10=-247/730, 7-10=-235/362

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 10-0-0, Exterior(2) 10-0-0 to 15-4-6, Interior(1) 15-4-6 to 27-11-0, Exterior(2) 27-11-0 to 33-3-6, Interior(1) 33-3-6 to 38-9-8 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) 2=584, 8=584.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 23,2020

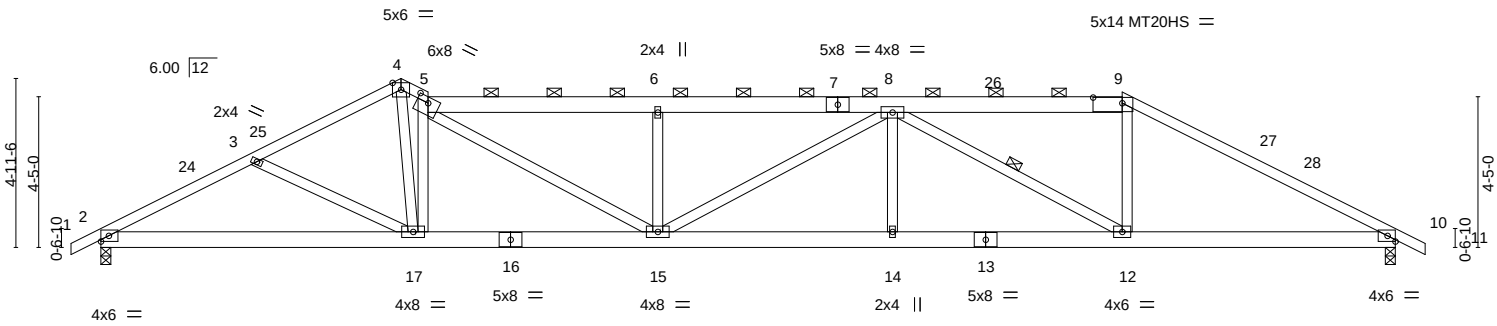
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G08	Roof Special	2	1	I43319805
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:35 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-J2__layyF8ja7c11eWRbisislXCUbZaOmhAeSlyQu8s

-0-10-8 4-6-13 8-9-8 9-7-0 16-3-12 23-2-4 29-11-0 37-11-0 38-9-8
0-10-8 4-6-13 4-2-11 0-9-8 6-8-12 6-10-8 6-8-12 8-0-0 0-10-8

Scale = 1:67.5



9-7-0 16-3-12 23-2-4 29-11-0 37-11-0
9-7-0 6-8-12 6-10-8 6-8-12 8-0-0

Plate Offsets (X,Y)-- [5:0-4-0,0-2-0], [9:0-10-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.23	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.46	14-15	>986	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.37	14-15	>999	240	Weight: 238 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 5-7,7-9: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-4-7 max.): 5-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 8-12

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-145(LC 13)
Max Uplift 2=-651(LC 13), 10=-864(LC 13)
Max Grav 2=1569(LC 1), 10=1569(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2818/1423, 3-4=-2576/1284, 4-5=-2700/1410, 5-6=-3634/1997, 6-8=-3629/1990, 8-9=-2377/1428, 9-10=-2781/1490
BOT CHORD 2-17=-1147/2461, 15-17=-1118/2635, 14-15=-1686/3498, 12-14=-1686/3498, 10-12=-1143/2402
WEBS 3-17=-258/336, 4-17=-1093/2100, 5-17=-1862/1163, 5-15=-754/1224, 6-15=-541/475, 8-14=0/270, 8-12=-1298/812, 9-12=-294/810

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 8-9-8, Exterior(2) 8-9-8 to 9-7-0, Interior(1) 9-7-0 to 29-11-0, Exterior(2) 29-11-0 to 33-8-8, Interior(1) 33-8-8 to 38-9-8 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=651, 10=864.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 23,2020

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G09	Roof Special Girder	2	2	I43319806
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:37 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-FR5kAGzCnlzINvAQmxU3oHnEqLpy3WOhE?fkXdyQu8q

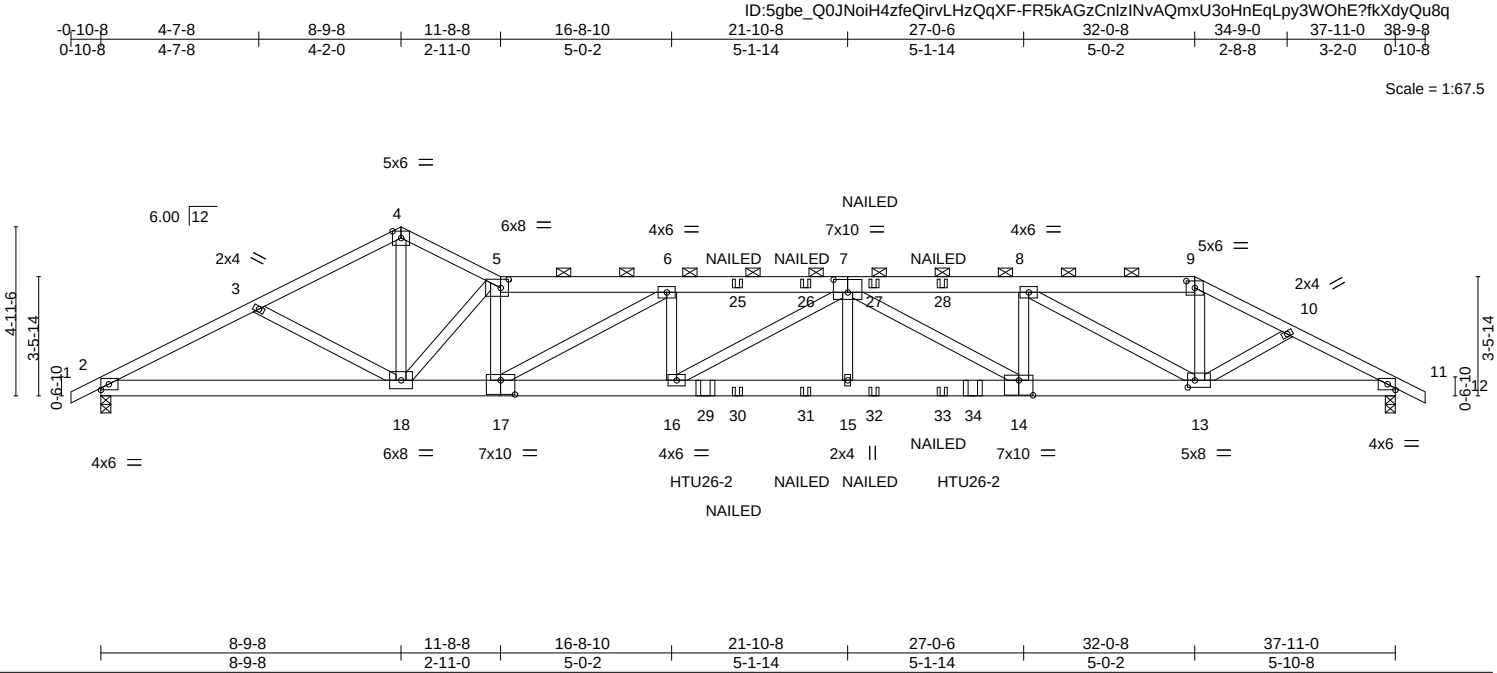

Plate Offsets (X,Y)-- [5:0-2-12,0-3-0], [7:0-5-0,0-4-8], [9:0-3-0,0-2-7], [13:0-2-8,0-2-8], [14:0-5-0,0-5-4], [17:0-5-0,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.62	15-16	>733	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.70	15-16	>652	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.13	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 489 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 5-7,7-9: 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 14-17: 2x6 SP DSS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-2 oc purlins, except 2-0-0 oc purlins (4-4-3 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 6-9-1 oc bracing.

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-145(LC 9)
Max Uplift 2=-1434(LC 9), 11=-1870(LC 9)
Max Grav 2=2771(LC 1), 11=3090(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5341/2956, 3-4=-5129/2933, 4-5=-5108/2920, 5-6=-8414/4940, 6-7=-11359/6838, 7-8=-9470/5861, 8-9=-5165/3213, 9-10=-5894/3594, 10-11=-5898/3598
BOT CHORD 2-18=-2424/4700, 17-18=-4711/8411, 16-17=-6613/11359, 15-16=-6911/11556, 14-15=-6911/11556, 13-14=-5580/9369, 11-13=-3080/5170
WEBS 3-18=-252/397, 4-18=-2434/4274, 5-18=-5625/3471, 5-17=-1094/1770, 6-17=-3510/2224, 6-16=-753/1358, 7-16=-333/488, 7-15=-338/831, 7-14=-2439/1491, 8-14=-1152/2104, 8-13=-4879/3012, 9-13=-1375/2354

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1434, 11=1870.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss, Single Ply Girder) or equivalent spaced at 7-10-0 oc max. starting at 17-8-8 from the left end to 25-6-8 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

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October 23,2020

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-5=-60, 5-9=-60, 9-12=-60, 19-22=-20
   Concentrated Loads (lb)
   Vert: 25=-77(F) 26=-77(F) 27=-77(F) 28=-77(F) 29=-1220(F) 30=-72(F) 31=-72(F) 32=-72(F) 33=-72(F) 34=-908(F)

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/ I43319807
2502469_MASTER	G10	GABLE	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:39 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-BqDVby?SJMD0cDKotMWXtitfb8isXXc_hJ8rbWyQu8o

-0-10-8 14-3-0 23-8-0 37-11-0 38-9-8
0-10-8 14-3-0 9-5-0 14-3-0 0-10-8

Scale = 1:67.2

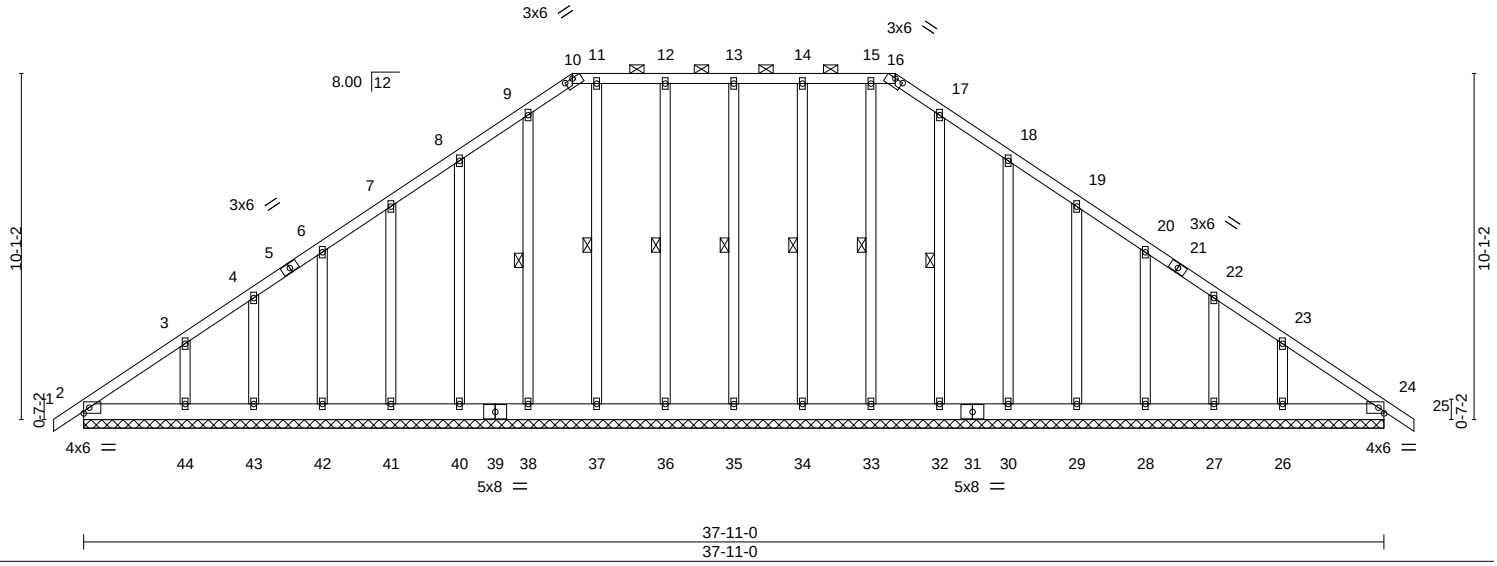

Plate Offsets (X,Y)-- [10:0-3-0,0-0-2], [16:0-3-0,0-0-2]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	24	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	24	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	24	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 319 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 10-16.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 13-35, 12-36, 11-37, 9-38, 14-34, 15-33, 17-32

REACTIONS. All bearings 37-11-0.
(lb) - Max Horz 2=-449(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 35, 37, 38, 33, 32, 24 except 2=-105(LC 8), 36=-109(LC 8), 40=-170(LC 12), 41=-148(LC 12), 42=-159(LC 12), 43=-127(LC 12), 44=-249(LC 12), 34=-103(LC 8), 30=-174(LC 13), 29=-148(LC 13), 28=-159(LC 13), 27=-127(LC 13), 26=-245(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 37, 38, 40, 41, 42, 43, 34, 33, 32, 30, 29, 28, 27, 24 except 44=294(LC 19), 26=289(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-465/330, 3-4=-296/257, 8-9=-247/299, 9-10=-293/339, 10-11=-273/326, 11-12=-273/326, 12-13=-273/326, 13-14=-273/326, 14-15=-273/326, 15-16=-273/326, 16-17=-293/339, 17-18=-247/285, 23-24=-382/272
BOT CHORD 2-44=-273/400, 43-44=-273/400, 42-43=-273/400, 41-42=-273/400, 40-41=-273/400, 38-40=-273/400, 37-38=-273/400, 36-37=-273/400, 35-36=-273/400, 34-35=-273/400, 33-34=-273/400, 32-33=-273/400, 30-32=-273/400, 29-30=-273/400, 28-29=-273/400, 27-28=-273/400, 26-27=-273/400, 24-26=-273/400
WEBS 3-44=-282/258, 23-26=-283/254

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-11-8, Exterior(2) 2-11-8 to 14-3-0, Corner(3) 14-3-0 to 18-0-8, Exterior(2) 18-0-8 to 23-8-0, Corner(3) 23-8-0 to 27-5-8, Exterior(2) 27-5-8 to 38-9-8 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 35, 37, 38, 33, 32, 24 except (jt=lb) 2=105, 36=109, 40=170, 41=148, 42=159, 43=127, 44=249, 34=103, 30=174, 29=148, 28=159, 27=127, 26=245.

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NORTH CAROLINA PROFESSIONAL SEAL 044925 ENGINEER SCOTT M. SEVIER
October 23,2020

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NOTES-

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G11	Piggyback Base	12	1	I43319808
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:41 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-7CLF0d1jr_TksXUB?nY?y7yudyBh?LaH8ddygPyQu8m

-0-10-8 7-9-1 14-3-0 18-11-8 23-8-0 30-1-15 37-11-0 38-9-8
0-10-8 7-9-1 6-5-15 4-8-8 4-8-8 6-5-15 7-9-1 0-10-8

Scale = 1:66.8

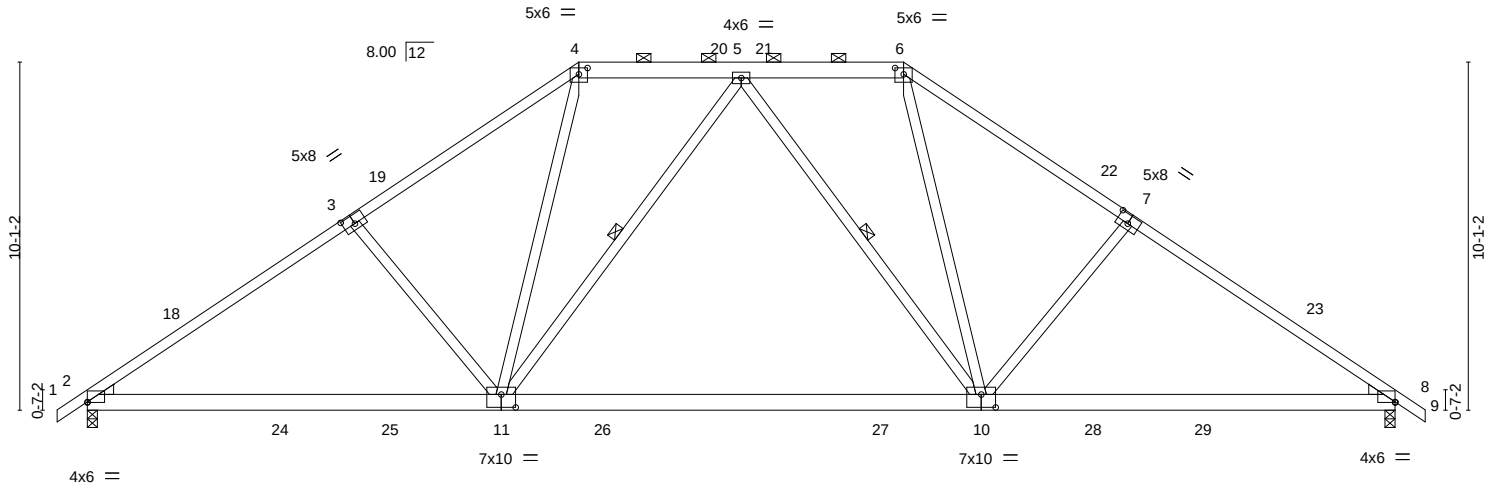

Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [3:0-4-0,0-3-0], [4:0-3-0,0-2-3], [6:0-3-0,0-2-3], [7:0-4-0,0-3-0], [8:Edge,0-0-3], [10:0-5-0,0-4-8], [11:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.38	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.60	10-11	>762	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.15	11-14	>999	240	Weight: 248 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x6 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, except 2-0-0 oc purlins (5-7-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11, 5-10

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=448(LC 11)
Max Uplift 2=-644(LC 12), 8=-644(LC 13)
Max Grav 2=1588(LC 2), 8=1588(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2323/1058, 3-4=-2181/1062, 4-5=-1690/929, 5-6=-1690/929, 6-7=-2181/1062, 7-8=-2323/1058
BOT CHORD 2-11=-789/1993, 10-11=-440/1541, 8-10=-693/1846
WEBS 3-11=-626/554, 4-11=-310/865, 5-11=-325/425, 5-10=-325/424, 6-10=-310/865, 7-10=-626/555

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 14-3-0, Exterior(2) 14-3-0 to 19-7-6, Interior(1) 19-7-6 to 23-8-0, Exterior(2) 23-8-0 to 29-0-6, Interior(1) 29-0-6 to 38-9-8 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=644, 8=644.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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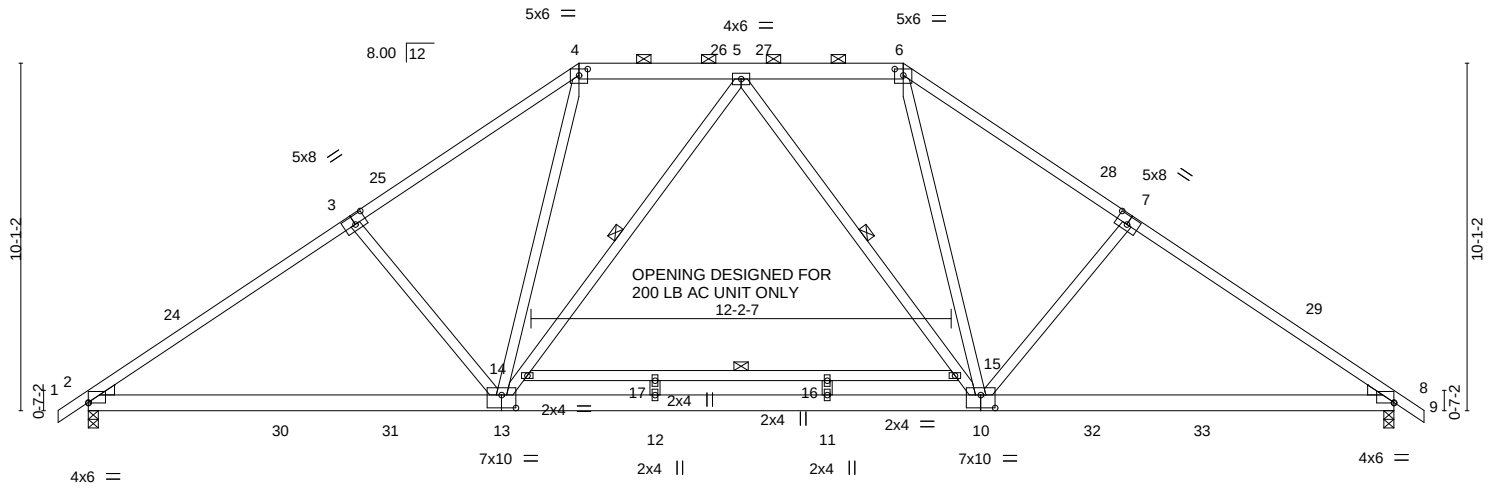
Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G12	Piggyback Base	6	1	I43319809
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:43 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-4bT0RJ2zMbjS5qea6CbT1Y1EGlsbTGoacx63kHyQu8k

-0-10-8 | 7-9-1 | 14-3-0 | 18-11-8 | 23-8-0 | 30-1-15 | 37-11-0 | 38-9-8
0-10-8 | 7-9-1 | 6-5-15 | 4-8-8 | 4-8-8 | 6-5-15 | 7-9-1 | 0-10-8

Scale = 1:66.9



12-0-0 | 25-11-0 | 37-11-0
12-0-0 | 13-11-0 | 12-0-0

Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [3:0-4-0,0-3-0], [4:0-3-0,0-2-3], [6:0-3-0,0-2-3], [7:0-4-0,0-3-0], [8:Edge,0-0-3], [10:0-5-0,0-4-8], [13:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.16	10-23	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.61	11-12	>746	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.15	13-20	>999	240	Weight: 268 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 14-15: 2x4 SP No.2
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 (5-4-5 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-13, 5-10, 14-15

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=448(LC 11)
Max Uplift 2=-544(LC 12), 8=-544(LC 13)
Max Grav 2=1669(LC 1), 8=1669(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2519/862, 3-4=-2378/865, 4-5=-1830/788, 5-6=-1830/788, 6-7=-2378/865, 7-8=-2519/862
BOT CHORD 2-13=-630/1955, 12-13=-283/1611, 11-12=-283/1611, 10-11=-283/1611, 8-10=-533/1950
WEBS 3-13=-617/563, 4-13=-202/974, 13-14=-341/406, 5-14=-325/427, 5-15=-325/426, 10-15=-341/402, 6-10=-202/973, 7-10=-617/564

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 14-3-0, Exterior(2) 14-3-0 to 19-7-6, Interior(1) 19-7-6 to 23-8-0, Exterior(2) 23-8-0 to 29-0-6, Interior(1) 29-0-6 to 38-9-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=544, 8=544.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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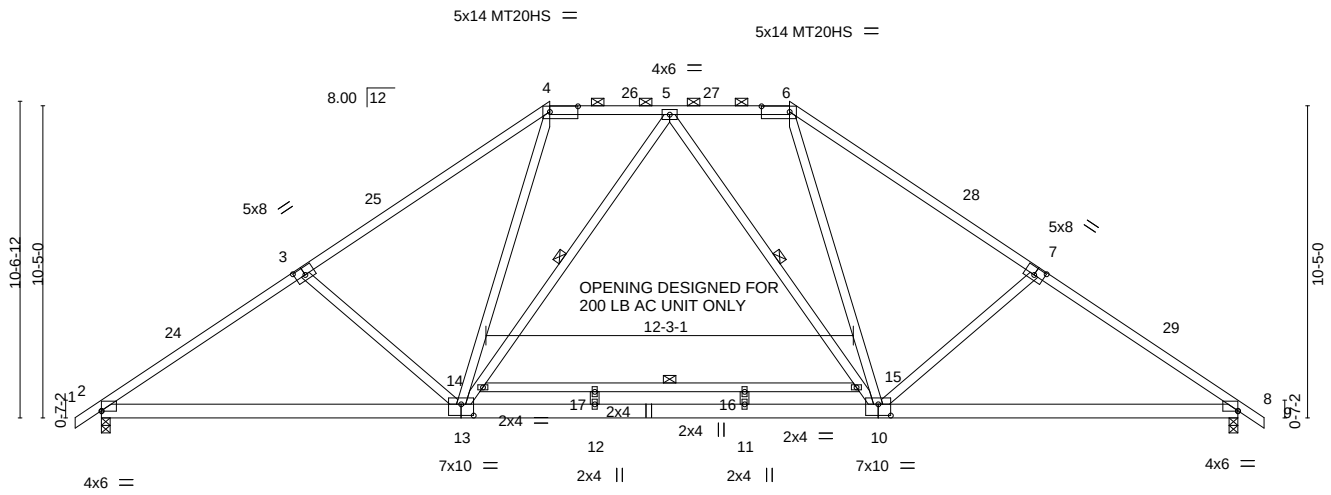
Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G13	Hip	2	1	I43319810
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:44 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-Yn0Oef3b7vrJj_Dmgv6ialaLz9C2CiijrbrcHjyQu8j

-0-10-8 6-9-10 14-11-8 18-11-8 22-11-8 31-1-6 37-11-0 38-9-8
0-10-8 6-9-10 8-1-14 4-0-0 4-0-0 8-1-14 6-9-10 0-10-8

Scale = 1:76.9



12-0-0 25-11-0 37-11-0
12-0-0 13-11-0 12-0-0

Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [3:0-4-0,0-3-0], [4:0-11-4,0-2-4], [6:0-11-4,0-2-4], [7:0-4-0,0-3-0], [8:Edge,0-0-3], [10:0-5-0,0-4-8], [13:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.16	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.62	11-12	>733	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.12	12	>999	240	Weight: 263 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 3-4,6-7: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 14-15: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-9-14 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-13, 5-10, 14-15

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=466(LC 11)
Max Uplift 2=-554(LC 12), 8=-554(LC 13)
Max Grav 2=1669(LC 1), 8=1669(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2630/898, 3-4=-2385/831, 4-5=-1840/803, 5-6=-1840/803, 6-7=-2385/831, 7-8=-2630/898
BOT CHORD 2-13=-743/2075, 12-13=-225/1543, 11-12=-225/1543, 10-11=-225/1543, 8-10=-595/2080
WEBS 3-13=-672/623, 4-13=-127/883, 13-14=-307/387, 5-14=-289/407, 5-15=-289/406, 10-15=-307/384, 6-10=-127/883, 7-10=-672/623

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 14-11-8, Exterior(2) 14-11-8 to 20-3-14, Interior(1) 20-3-14 to 22-11-8, Exterior(2) 22-11-8 to 28-3-14, Interior(1) 28-3-14 to 38-9-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=554, 8=554.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 23,2020

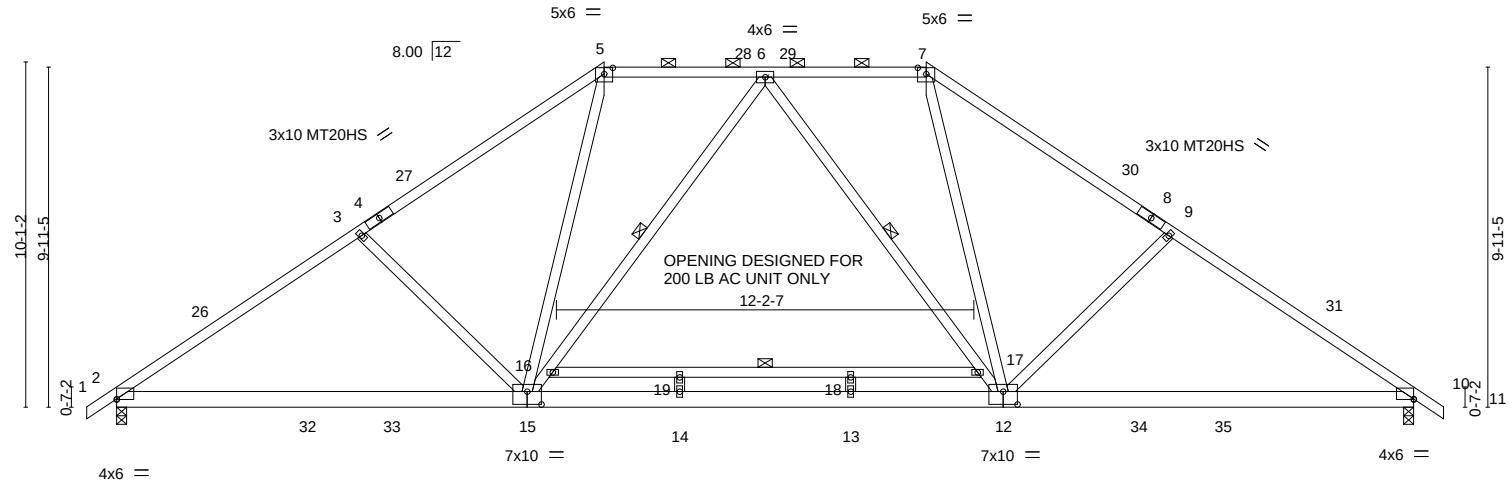
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G14	Hip	2	1	I43319811
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:46 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-UA883L4rfW50yIM9oK8AfAfjrztMgcE0IuKjLcyQu8h

-0-10-8 | 7-1-15 | 14-3-0 | 18-11-8 | 23-8-0 | 30-9-1 | 37-11-0 | 38-9-8
0-10-8 | 7-1-15 | 7-1-1 | 4-8-8 | 4-8-8 | 7-1-1 | 7-1-15 | 0-10-8

Scale = 1:67.4



12-0-0 | 25-11-0 | 37-11-0
12-0-0 | 13-11-0 | 12-0-0

Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [5:0-3-0,0-2-3], [7:0-3-0,0-2-3], [10:Edge,0-0-3], [12:0-5-0,0-4-8], [15:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.16	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.62	13-14	>734	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.12	15-22	>999	240	Weight: 259 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
16-17: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-0-9 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-15, 6-12, 16-17

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=445(LC 11)
Max Uplift 2=-545(LC 12), 10=-545(LC 13)
Max Grav 2=1669(LC 1), 10=1669(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2556/885, 3-5=-2356/843, 5-6=-1836/788, 6-7=-1836/788, 7-9=-2356/843, 9-10=-2556/885
BOT CHORD 2-15=-675/1996, 14-15=-282/1625, 13-14=-282/1625, 12-13=-282/1625, 10-12=-570/2001
WEBS 3-15=-619/576, 5-15=-166/927, 15-16=-344/397, 6-16=-328/419, 6-17=-328/419, 12-17=-344/394, 7-12=-166/927, 9-12=-619/577

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 14-3-0, Exterior(2) 14-3-0 to 19-7-6, Interior(1) 19-7-6 to 23-8-0, Exterior(2) 23-8-0 to 29-0-6, Interior(1) 29-0-6 to 38-9-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=545, 10=545.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 23,2020

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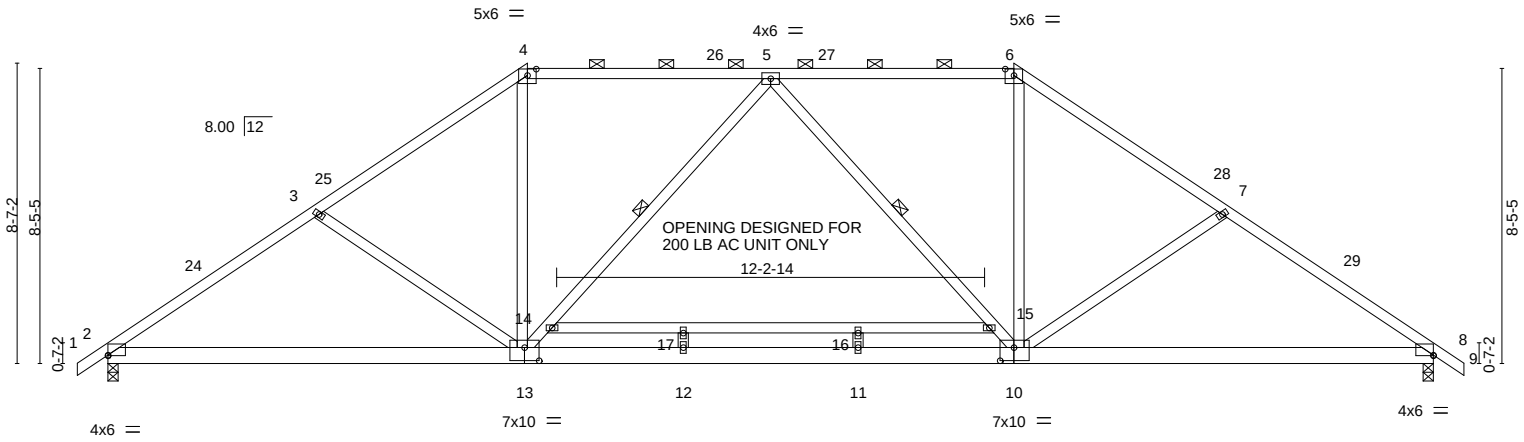
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G15	Hip	2	1	I43319812
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:47 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-yMiWGh5UQqDtaSxLL2fPCOCvcND4P3?9XY4Gu2yQu8g

-0-10-8 6-0-7 12-0-0 18-11-8 25-11-0 31-10-9 37-11-0 38-9-8
0-10-8 6-0-7 5-11-9 6-11-8 6-11-8 5-11-9 6-0-7 0-10-8

Scale = 1:65.9



12-0-0 25-11-0 37-11-0
12-0-0 13-11-0 12-0-0

Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [4:0-3-0,0-2-3], [6:0-3-0,0-2-3], [8:Edge,0-0-3], [10:0-4-12,0-4-8], [13:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.16	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.64	11-12	>708	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.13	11-12	>999	240	Weight: 251 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
14-15: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-8-15 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-13, 5-10

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=378(LC 11)
Max Uplift 2=-511(LC 12), 8=-511(LC 13)
Max Grav 2=1669(LC 1), 8=1669(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2491/928, 3-4=-2207/825, 4-5=-1909/789, 5-6=-1913/788, 6-7=-2202/823, 7-8=-2490/929
BOT CHORD 2-13=-634/1993, 12-13=-462/1906, 11-12=-462/1906, 10-11=-462/1906, 8-10=-627/1992
WEBS 3-13=-532/505, 4-13=-132/846, 13-14=-416/431, 5-14=-429/476, 5-15=-423/478, 10-15=-406/422, 6-10=-131/844, 7-10=-534/507

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 12-0-0, Exterior(2) 12-0-0 to 17-4-6, Interior(1) 17-4-6 to 25-11-0, Exterior(2) 25-11-0 to 31-3-6, Interior(1) 31-3-6 to 38-9-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=511, 8=511.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 23,2020

ENGINEERING BY TRENCO
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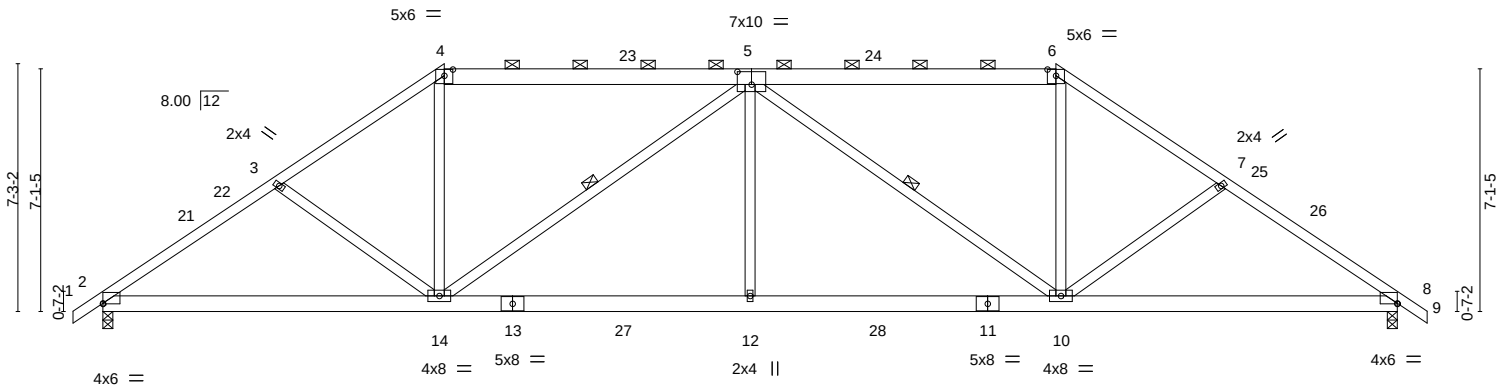
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G16	Hip	2	1	I43319813
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:49 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-ulqHhN7kyRTbpl5jTShtHpHIXA?ptz4S_sZNyxyQu8e

-0-10-8 5-1-15 10-0-0 18-11-8 27-11-0 32-9-1 37-11-0 38-9-8
0-10-8 5-1-15 4-10-1 8-11-8 8-11-8 4-10-1 5-1-15 0-10-8

Scale = 1:67.5



10-0-0 18-11-8 27-11-0 37-11-0
10-0-0 8-11-8 8-11-8 10-0-0

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.12	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.24	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.15	12	>999	240	Weight: 247 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-5,5-6: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-1-8 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-14, 5-10

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=319(LC 11)
Max Uplift 2=-577(LC 12), 8=-577(LC 13)
Max Grav 2=1569(LC 1), 8=1569(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2319/1139, 3-4=-2090/1074, 4-5=-1727/982, 5-6=-1727/981, 6-7=-2090/1074, 7-8=-2319/1140
BOT CHORD 2-14=-872/1859, 12-14=-979/2271, 10-12=-980/2268, 8-10=-809/1860
WEBS 3-14=-412/380, 4-14=-262/761, 5-14=-859/591, 5-12=0/443, 5-10=-859/592, 6-10=-265/764, 7-10=-412/381

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 10-0-0, Exterior(2) 10-0-0 to 15-4-6, Interior(1) 15-4-6 to 27-11-0, Exterior(2) 27-11-0 to 33-3-6, Interior(1) 33-3-6 to 38-9-8 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=577, 8=577.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 23,2020

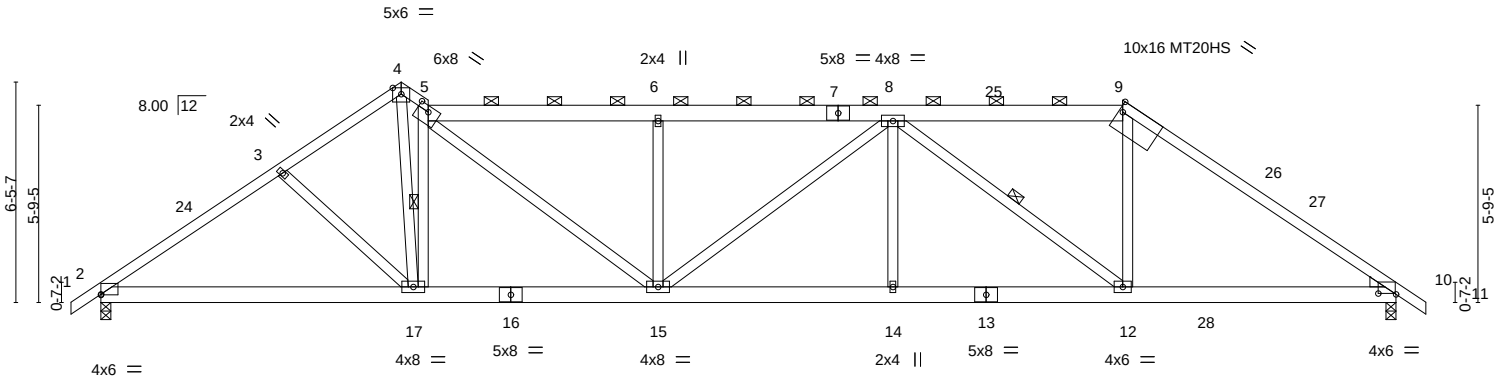
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G17	Roof Special	2	1	I43319814
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:50 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-MxOfvi8MjlbSRvgw1AD6p0qPzaMIcLLcDWIwUNyQu8d

-0-10-8	5-3-13	8-9-8	9-7-0	16-3-12	23-2-4	29-11-0	37-11-0	38-9-8
0-10-8	5-3-13	3-5-11	0-9-8	6-8-12	6-10-8	6-8-12	8-0-0	0-10-8

Scale = 1:67.5



9-7-0	16-3-12	23-2-4	29-11-0	37-11-0
9-7-0	6-8-12	6-10-8	6-8-12	8-0-0

Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [5:0-4-0,0-2-0], [9:0-1-5,Edge], [10:0-6-4,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.15	15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.31	14-15	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.24	14-15	>999	240	Weight: 254 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 5-7,7-9: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-11-1 max.): 5-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-17, 8-12

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=286(LC 11)
Max Uplift 2=-657(LC 13), 10=-858(LC 13)
Max Grav 2=1569(LC 1), 10=1569(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2305/1092, 3-4=-2103/1086, 4-5=-2116/1160, 5-6=-2714/1549, 6-8=-2708/1543, 8-9=-1793/1160, 9-10=-2299/1227
BOT CHORD 2-17=-859/1839, 15-17=-886/1977, 14-15=-1162/2608, 12-14=-1162/2608, 10-12=-771/1810
WEBS 3-17=-340/325, 4-17=-1114/2035, 5-17=-1765/1142, 5-15=-627/996, 6-15=-533/476, 8-14=0/269, 8-12=-1036/739, 9-12=-308/803

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-11-0, Interior(1) 2-11-0 to 8-9-8, Exterior(2) 8-9-8 to 9-7-0, Interior(1) 9-7-0 to 29-11-0, Exterior(2) 29-11-0 to 33-8-8, Interior(1) 33-8-8 to 38-9-8 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) 2=657, 10=858.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

October 23,2020

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	G18	Roof Special Girder	2	2	I43319815
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:52 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-JKVPJO9cFMsAgDqI8bFauRvpMOxt4Ifvgqn1ZGyQu8b

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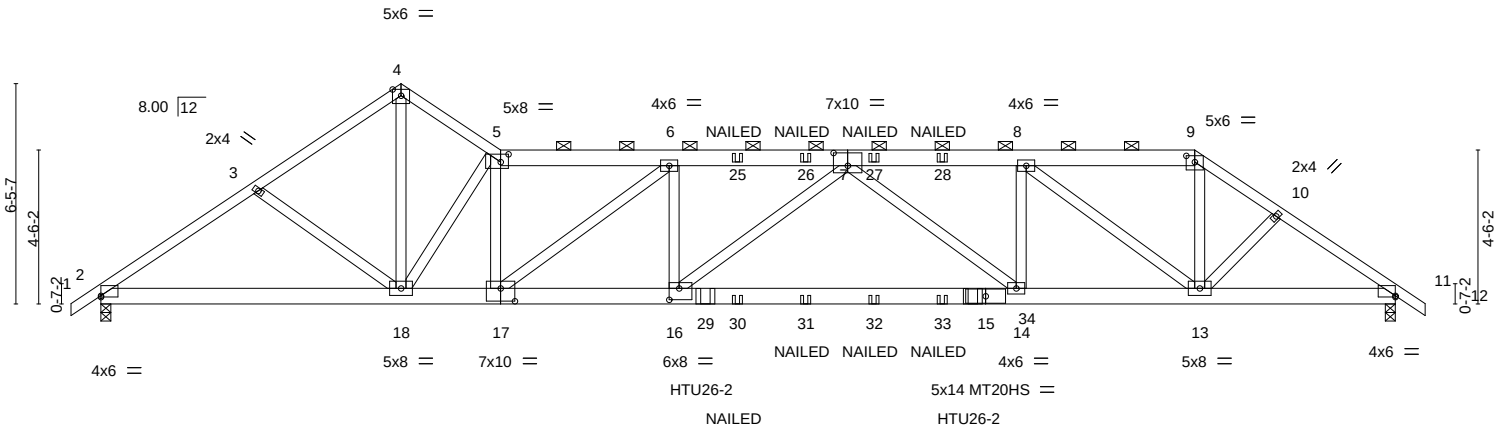
0-10-8	4-7-5	4-2-3	2-11-0	5-1-0	5-1-0	5-1-0	5-1-0	2-4-10	3-5-14	0-10-8

Scale = 1:67.5



8-9-8	11-8-8	16-9-8	26-11-8	32-0-8	37-11-0
8-9-8	2-11-0	5-1-0	10-2-0	5-1-0	5-10-8

Plate Offsets (X,Y)-- [2:0-0-0,0-0-7], [5:0-2-12,0-2-12], [7:0-5-0,0-4-8], [9:0-3-0,0-2-3], [11:Edge,0-0-7], [16:0-3-8,0-4-0], [17:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.53	14-16	>856	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.59	14-16	>771	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 514 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 5-7,7-9: 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 11-15: 2x6 SP No.1, 15-17: 2x6 SP DSS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except 2-0-0 oc purlins (5-2-1 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 7-4-5 oc bracing.

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-286(LC 25)
Max Uplift 2=-1524(LC 9), 11=-1978(LC 9)
Max Grav 2=2750(LC 1), 11=3065(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4358/2584, 3-4=-4151/2577, 4-5=-4122/2556, 5-6=-6249/3968, 6-7=-8672/5625, 7-8=-7205/4832, 8-9=-3824/2617, 9-10=-4693/3129, 10-11=-4796/3131
BOT CHORD 2-18=-1987/3543, 17-18=-3663/6247, 16-17=-5322/8672, 14-16=-5361/8280, 13-14=-4529/7205, 11-13=-2446/3902
WEBS 3-18=-326/399, 4-18=-2666/4281, 5-18=-4890/3296, 5-17=-1124/1624, 6-17=-3157/2122, 6-16=-945/1539, 7-16=-25/542, 7-14=-1375/1075, 8-14=-1331/2257, 8-13=-4279/2824, 9-13=-1522/2335, 10-13=-222/253

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1524, 11=1978.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss, Single Ply Girder) or equivalent spaced at 7-10-0 oc max. starting at 17-8-8 from the left end to 25-6-8 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

NORTH CAROLINA PROFESSIONAL SEAL 044925 ENGINEER SCOTT M. SEVIER

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NOTES-

13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-5=-60, 5-9=-60, 9-12=-60, 19-22=-20
   Concentrated Loads (lb)
   Vert: 25=-79(F) 26=-79(F) 27=-79(F) 28=-79(F) 29=-1191(F) 30=-70(F) 31=-70(F) 32=-70(F) 33=-70(F) 34=-891(F)

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	H01	Jack-Closed Girder	2	2	I43319816
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:53 2020 Page 1
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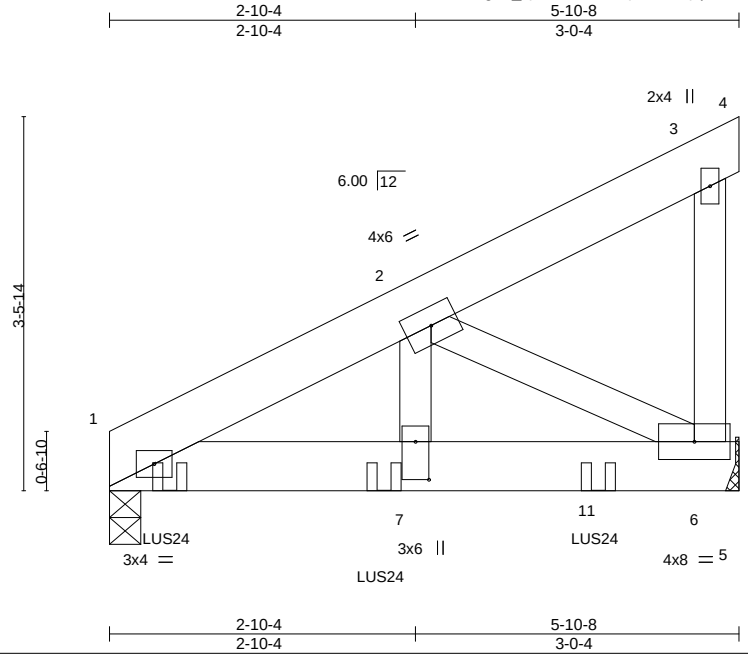

Plate Offsets (X,Y)-- [7:0-4-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.01	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 78 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 5-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 6=Mechanical
Max Horz 1=203(LC 8)
Max Uplift 1=-570(LC 8), 6=-674(LC 8)
Max Grav 1=1269(LC 1), 6=1240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1489/632
BOT CHORD 1-7=-721/1336, 6-7=-721/1336
WEBS 2-7=-511/1185, 2-6=-1521/820

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) 1=570, 6=674.
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 0-6-12 from the left end to 4-6-12 to connect truss(es) to back face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-20, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-682(B) 10=-686(B) 11=-682(B)

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	H02	Jack-Open	8	1	I43319817
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:53 2020 Page 1
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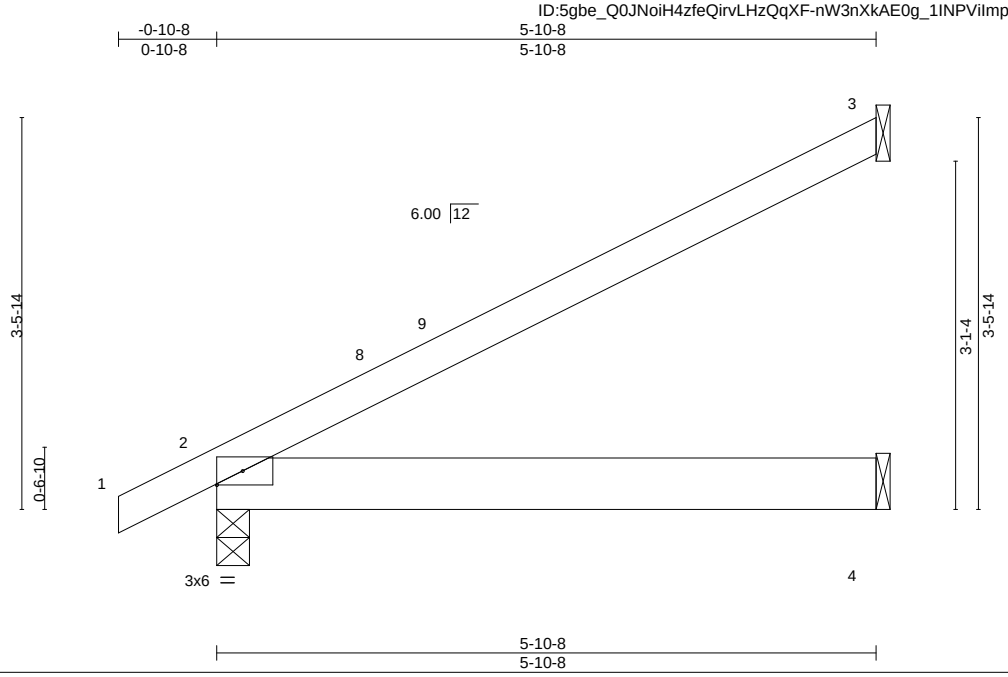


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.04	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS							Weight: 25 lb	FT = 20%

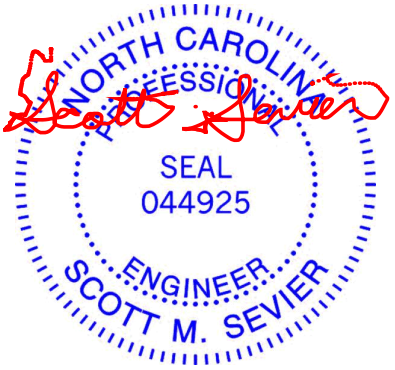
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=228(LC 12)
Max Uplift 3=-165(LC 12), 2=-121(LC 12), 4=-20(LC 12)
Max Grav 3=137(LC 1), 2=289(LC 1), 4=121(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-12 zone; cantilever left exposed ; 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) 4 except (jt=lb) 3=165, 2=121.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	H03	Jack-Closed Girder	2	2	I43319818
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:54 2020 Page 1
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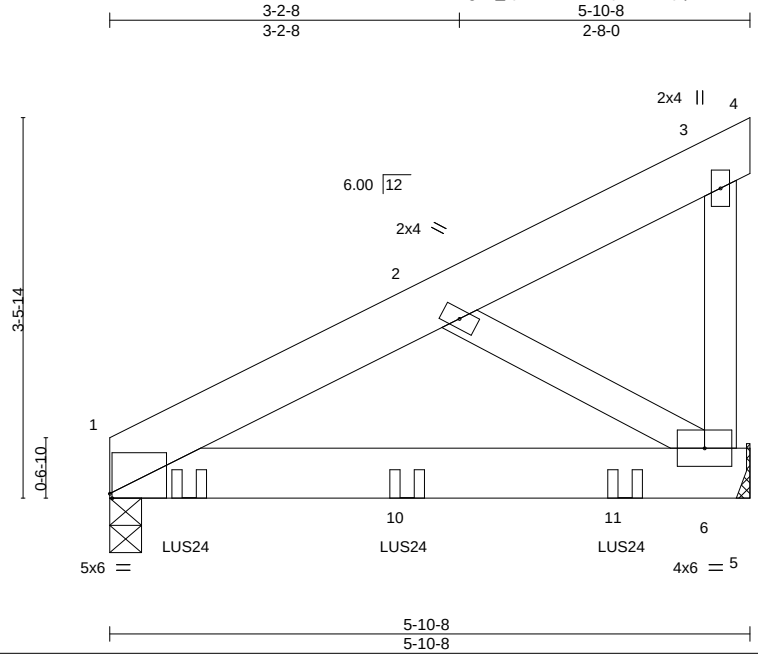

Plate Offsets (X,Y)-- [1:0-0-4,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	0.03	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.05	6-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 74 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 5-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 6=Mechanical
Max Horz 1=203(LC 8)
Max Uplift 1=-422(LC 8), 6=-534(LC 8)
Max Grav 1=938(LC 1), 6=928(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-536/214
BOT CHORD 1-6=-408/632
WEBS 2-6=-733/472

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) 1=422, 6=534.
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 0-8-12 from the left end to 4-8-12 to connect truss(es) to front face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-20, 5-7=-20
Concentrated Loads (lb)
Vert: 9=-471(F) 10=-468(F) 11=-468(F)

October 23,2020

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	H04	Jack-Closed Girder	2	2	I43319819
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:55 2020 Page 1
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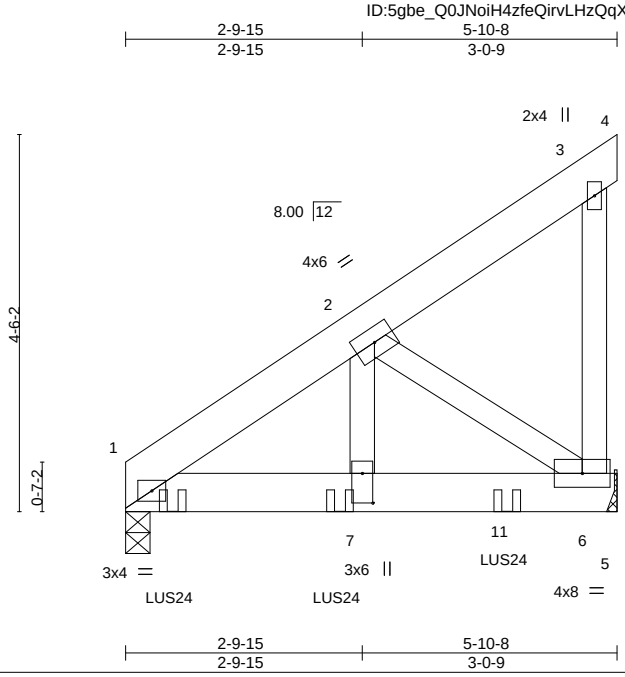

Plate Offsets (X,Y)-- [7:0-4-4,0-1-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.01	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 85 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 5-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 6=Mechanical
Max Horz 1=270(LC 8)
Max Uplift 1=-519(LC 8), 6=-684(LC 8)
Max Grav 1=1298(LC 1), 6=1234(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1206/427
BOT CHORD 1-7=-563/1019, 6-7=-563/1019
WEBS 2-7=-485/1182, 2-6=-1251/691

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) 1=519, 6=684.
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 0-6-12 from the left end to 4-6-12 to connect truss(es) to back face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-20, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-682(B) 10=-686(B) 11=-682(B)

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	H05	Jack-Open	8	1	I43319820
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:56 2020 Page 1
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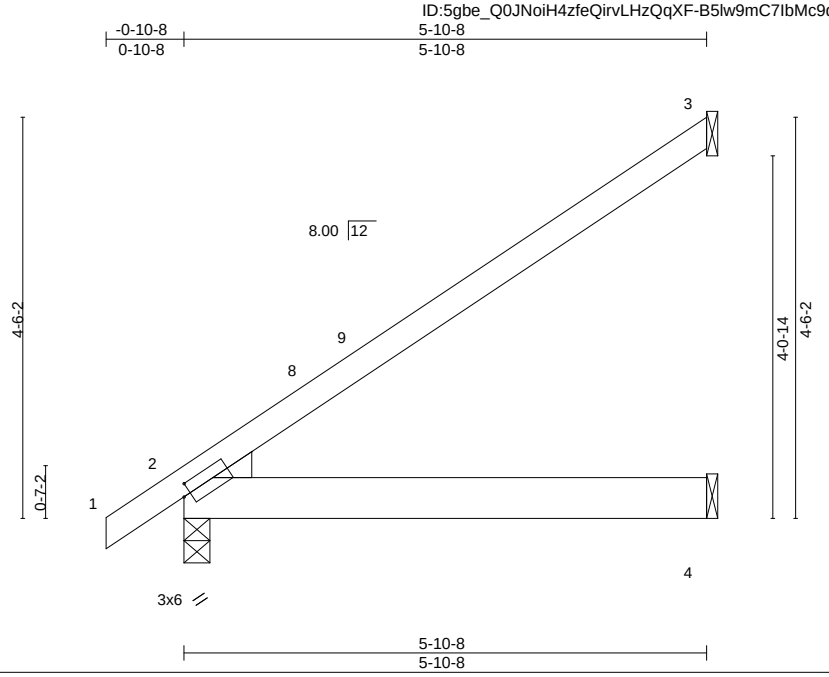

Plate Offsets (X,Y)-- [2:0-1-0,0-1-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.04	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS							Weight: 27 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=304(LC 12)
Max Uplift 3=-199(LC 12), 2=-79(LC 12), 4=-28(LC 12)
Max Grav 3=178(LC 19), 2=289(LC 19), 4=121(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-12 zone; cantilever left exposed ; 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) 2, 4 except (jt=lb) 3=199.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	H06	Jack-Closed Girder	2	2	I43319821
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:57 2020 Page 1
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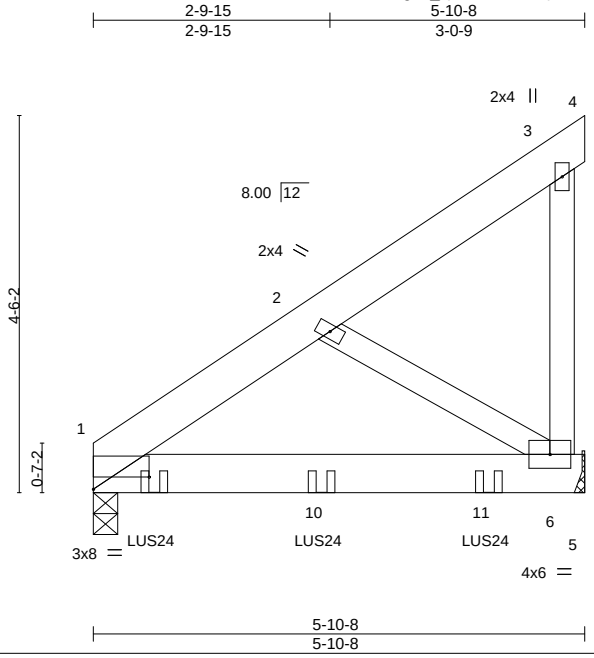

Plate Offsets (X,Y)-- [1:0-8-0,0-1-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.03	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.05	6-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 81 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 5-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 6=Mechanical
Max Horz 1=270(LC 8)
Max Uplift 1=-372(LC 8), 6=-554(LC 8)
Max Grav 1=956(LC 1), 6=911(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-412/103
BOT CHORD 1-6=-371/516
WEBS 2-6=-604/434

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) 1=372, 6=554.
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 0-8-12 from the left end to 4-8-12 to connect truss(es) to front face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-20, 5-7=-20
Concentrated Loads (lb)
Vert: 9=-471(F) 10=-468(F) 11=-468(F)

October 23,2020

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	J01	MONOPITCH	10	1	I43319822
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:58 2020 Page 1
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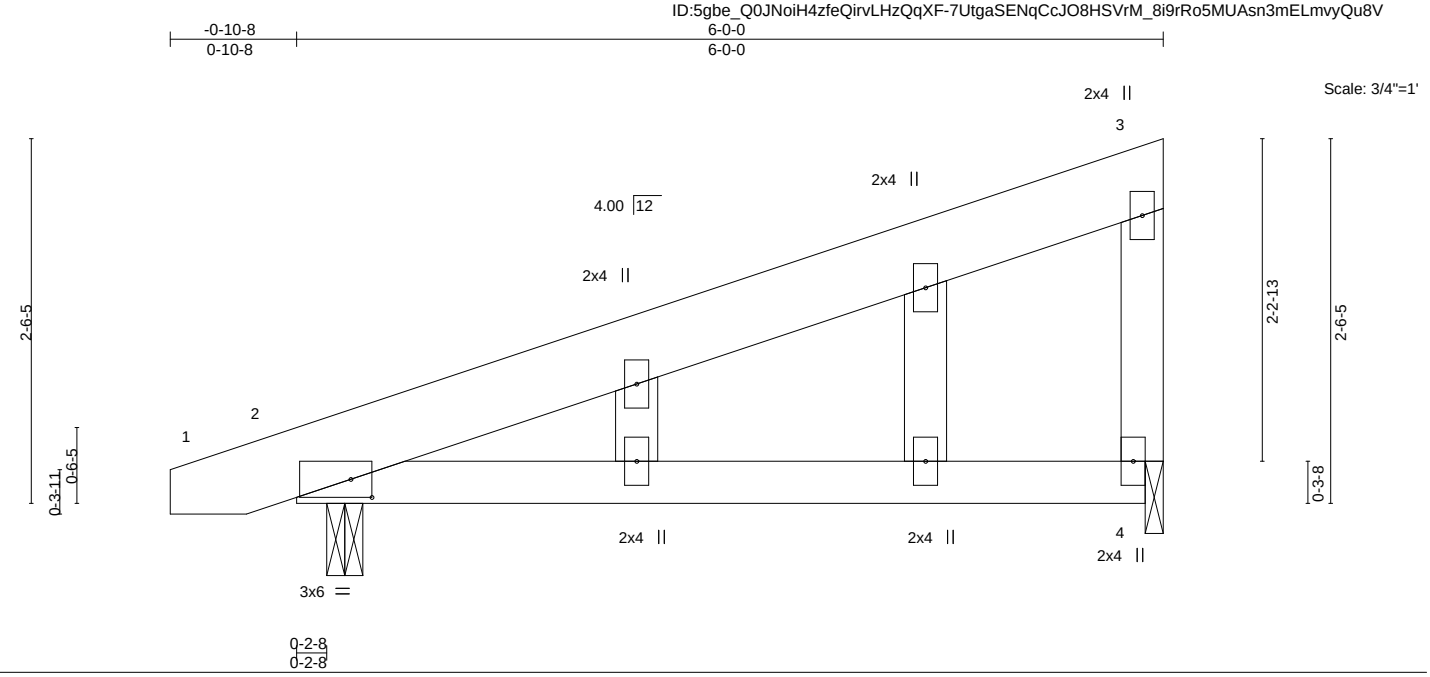

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	0.13	4-11	>529	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.07	4-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 31 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 4=0-1-8
Max Horz 2=154(LC 8)
Max Uplift 2=-256(LC 8), 4=-253(LC 8)
Max Grav 2=273(LC 1), 4=232(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-178/344

NOTES-
1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left 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
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) 4 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) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=256, 4=253.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	J05	MONOPITCH	24	1	I43319823
					Job Reference (optional)

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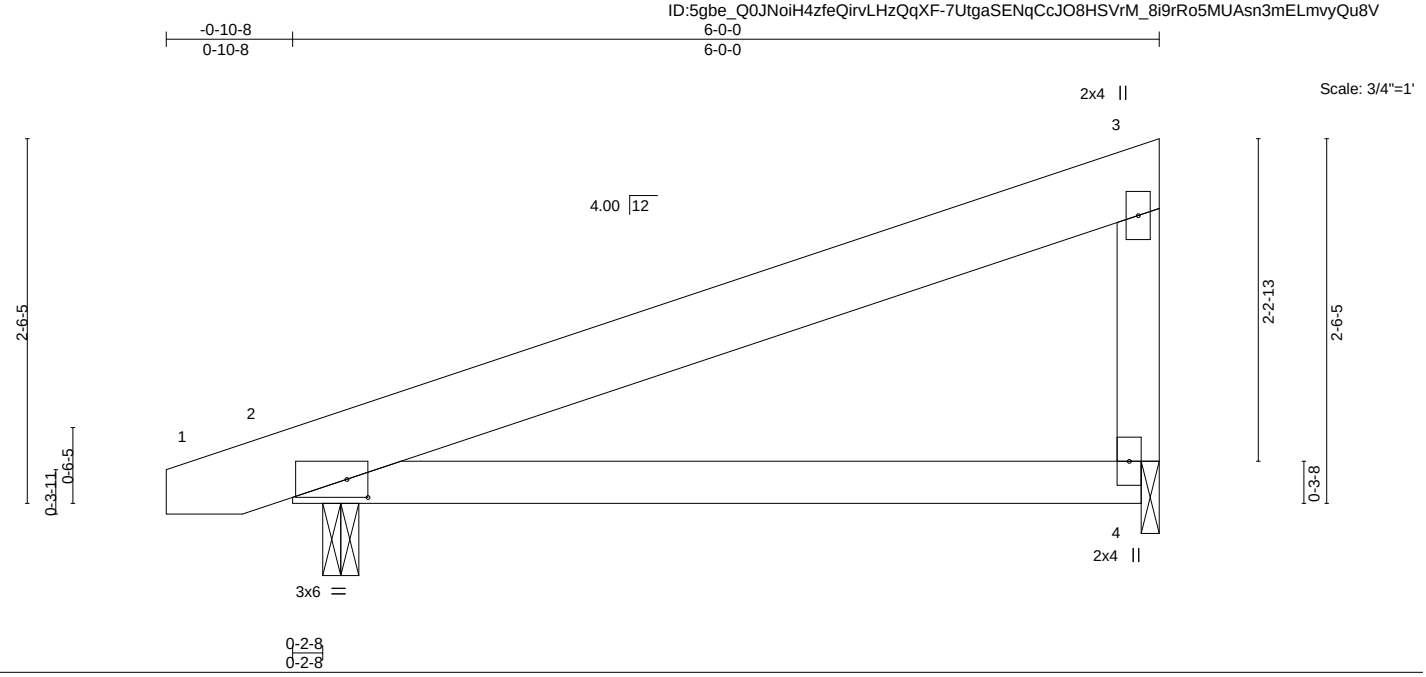

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	0.13	4-7	>529	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.07	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 28 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 4=0-1-8
Max Horz 2=154(LC 8)
Max Uplift 2=-256(LC 8), 4=-253(LC 8)
Max Grav 2=273(LC 1), 4=232(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-178/344

NOTES-
1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left 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
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) 4 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) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=256, 4=253.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	M01	GABLE	2	1	I43319824
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:35:59 2020 Page 1
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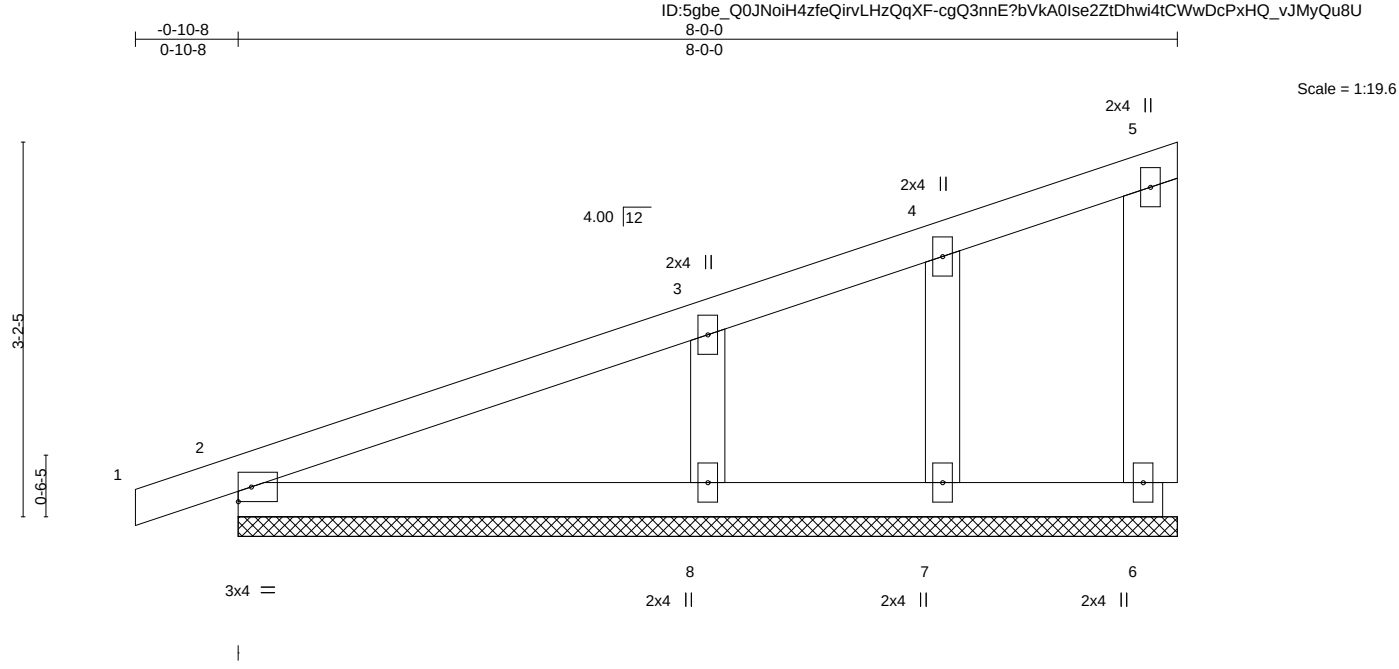

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 37 lb	FT = 20%

LUMBER-

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

REACTIONS. All bearings 8-0-0.
(lb) - Max Horz 2=163(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-124(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=316(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-277/159
WEBS 3-8=-229/363

NOTES-

1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 6, 2, 7 except (jt=lb) 8=124.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	M02	Monopitch	4	1	I43319825
					Job Reference (optional)

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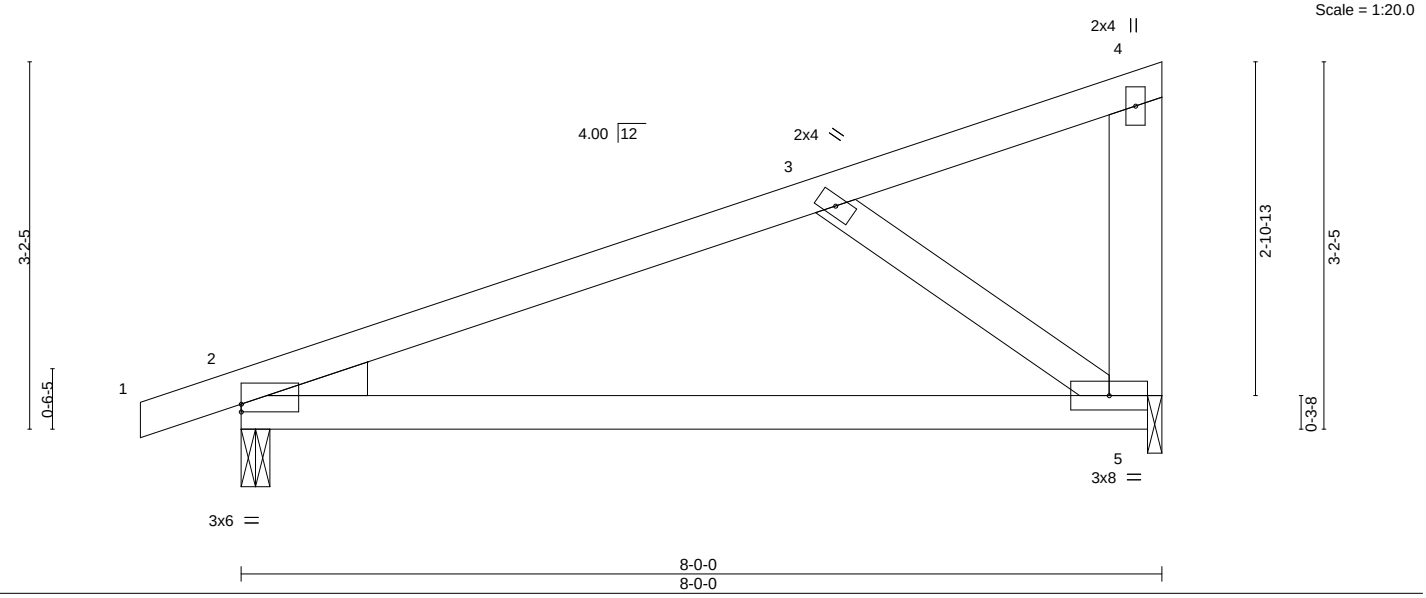

Plate Offsets (X,Y)-- [2:0-0-0,0-0-13]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.28	5-8	>336	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.16	5-8	>586	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 38 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
3-5: 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 5=0-1-8
Max Horz 2=146(LC 8)
Max Uplift 2=-253(LC 8), 5=-245(LC 8)
Max Grav 2=366(LC 1), 5=308(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-366/499
BOT CHORD 2-5=-658/320
WEBS 3-5=-349/657

NOTES-
1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
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) 5 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) 5.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=253, 5=245.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	PB01	GABLE	2	1	I43319826
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:36:02 2020 Page 1
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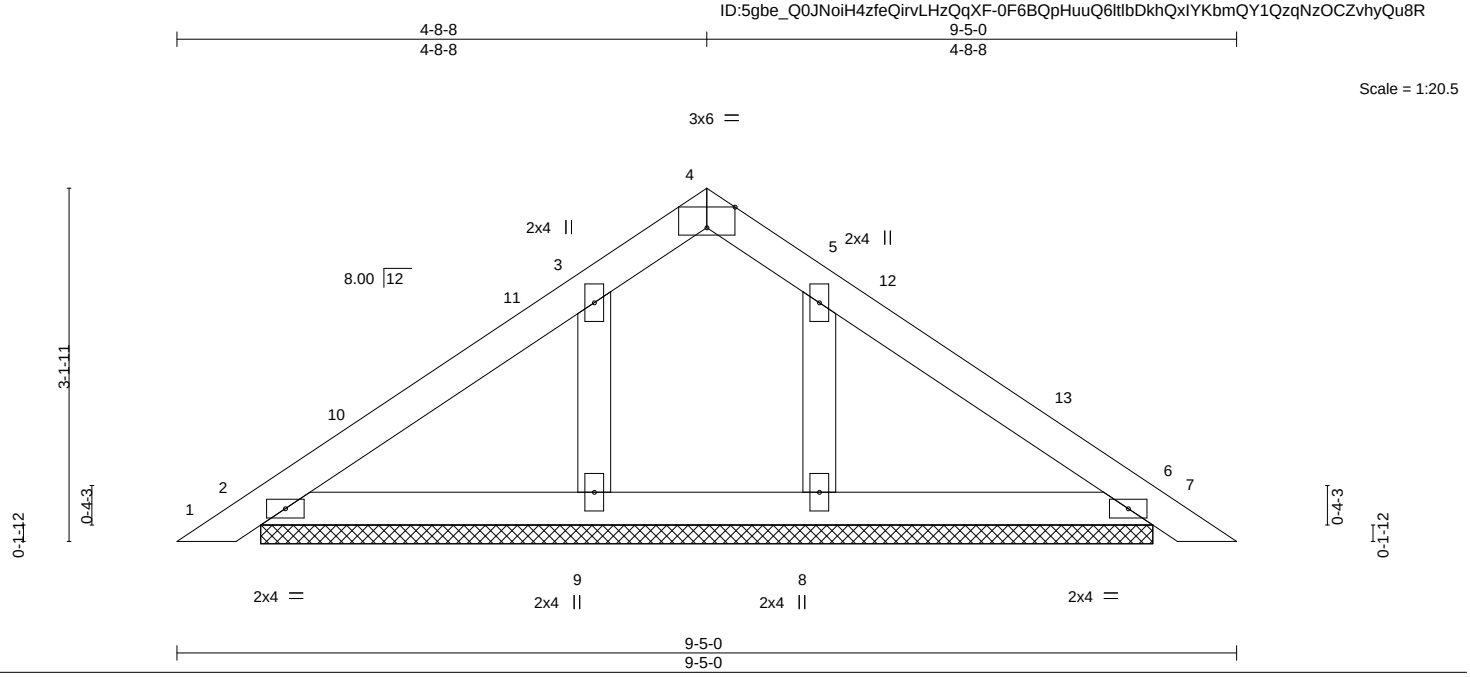

Plate Offsets (X,Y)-- [4:0-3-0,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 34 lb	FT = 20%

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

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

REACTIONS. All bearings 7-11-2.
(lb) - Max Horz 2=-132(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 9=-205(LC 12), 8=-197(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=284(LC 19), 8=276(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-9=-273/222, 5-8=-276/222

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 4-8-8, Exterior(2) 4-8-8 to 7-8-8, Interior(1) 7-8-8 to 9-1-14 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) 2, 6 except (jt=lb) 9=205, 8=197.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	PB02	Piggyback	16	1	I43319827
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:36:03 2020 Page 1
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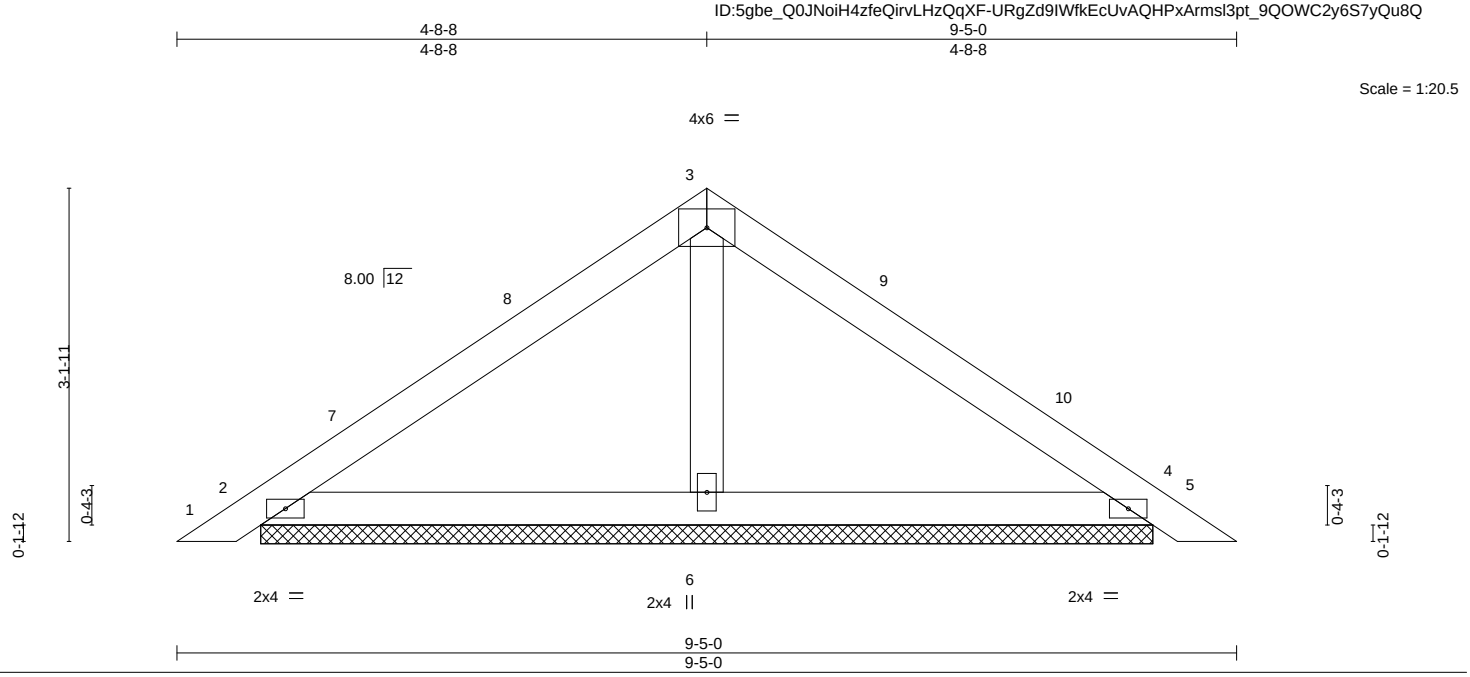

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 32 lb	FT = 20%

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

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

REACTIONS. (size) 2=7-11-2, 4=7-11-2, 6=7-11-2
Max Horz 2=-132(LC 10)
Max Uplift 2=-111(LC 12), 4=-129(LC 13), 6=-98(LC 12)
Max Grav 2=186(LC 1), 4=198(LC 20), 6=320(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 4-8-8, Exterior(2) 4-8-8 to 7-8-8, Interior(1) 7-8-8 to 9-1-14 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) Gable requires continuous bottom chord bearing.
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) 6 except (jt=lb) 2=111, 4=129.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

October 23,2020

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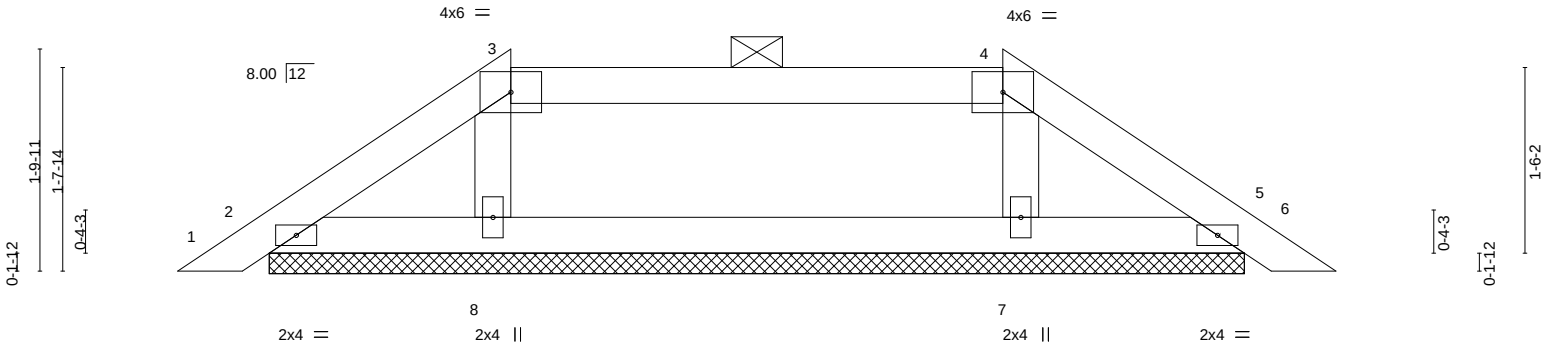
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wayfare/
2502469_MASTER	PB03	Piggyback	2	1	I43319828
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 22 10:36:04 2020 Page 1
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-ydEyrVI8Q2MT63kcr6TPOzPwuDEGusGgRihg_ZyQu8P

2-8-8 / 2-8-8 | 6-8-8 / 4-0-0 | 9-5-0 / 2-8-8

Scale = 1:18.7



9-5-0 / 9-5-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 30 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-11-2.
(lb) - Max Horz 2=70(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5 except 8=-127(LC 9), 7=-111(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 8=267(LC 23), 7=267(LC 24)

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5 except (jt=lb) 8=127, 7=111.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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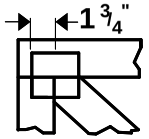
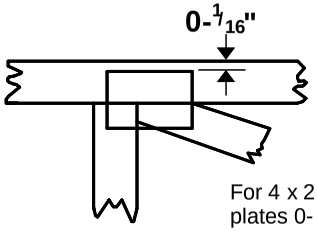
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

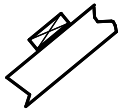
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

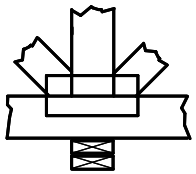
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

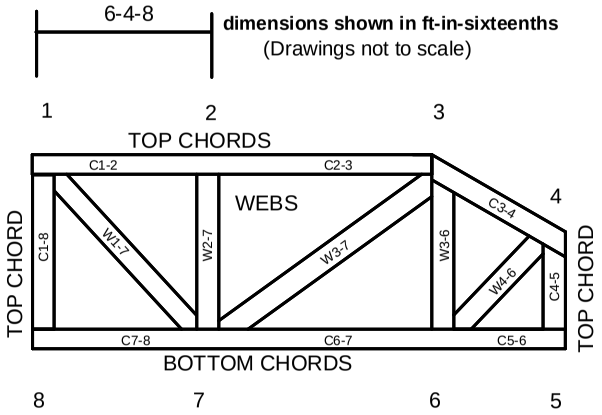


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.