

RE: 654049_130mph - H&H/Wilmington/

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Project Customer: h and h Project Name: 654049 130mph
 Lot/Block: A Subdivision: All
 Model:
 Address:
 City: Fayetteville 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: 130 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	I37223227	A01	5/28/19	35	I37223261	C05	5/28/19
2	I37223228	A02	5/28/19	36	I37223262	C06	5/28/19
3	I37223229	A03	5/28/19	37	I37223263	C07	5/28/19
4	I37223230	A04	5/28/19	38	I37223264	CP01	5/28/19
5	I37223231	A04A	5/28/19	39	I37223265	CP02	5/28/19
6	I37223232	A05	5/28/19	40	I37223266	D01	5/28/19
7	I37223233	A05A	5/28/19	41	I37223267	D02	5/28/19
8	I37223234	A06	5/28/19	42	I37223268	D03	5/28/19
9	I37223235	A07	5/28/19	43	I37223269	G01	5/28/19
10	I37223236	A08	5/28/19	44	I37223270	G02	5/28/19
11	I37223237	A09	5/28/19	45	I37223271	G03	5/28/19
12	I37223238	A10	5/28/19	46	I37223272	J01	5/28/19
13	I37223239	A11	5/28/19	47	I37223273	J02	5/28/19
14	I37223240	A24	5/28/19	48	I37223274	J03	5/28/19
15	I37223241	A24A	5/28/19	49	I37223275	J04	5/28/19
16	I37223242	A25	5/28/19	50	I37223276	J05	5/28/19
17	I37223243	A25A	5/28/19	51	I37223277	J06	5/28/19
18	I37223244	A26	5/28/19	52	I37223278	J07	5/28/19
19	I37223245	A34	5/28/19	53	I37223279	J08	5/28/19
20	I37223246	A34A	5/28/19	54	I37223280	J09	5/28/19
21	I37223247	A35	5/28/19	55	I37223281	J10	5/28/19
22	I37223248	A35A	5/28/19	56	I37223282	J11	5/28/19
23	I37223249	A36	5/28/19	57	I37223283	J12	5/28/19
24	I37223250	B01	5/28/19	58	I37223284	J13	5/28/19
25	I37223251	B02	5/28/19	59	I37223285	J14	5/28/19
26	I37223252	B03	5/28/19	60	I37223286	J15	5/28/19
27	I37223253	B04	5/28/19	61	I37223287	J21	5/28/19
28	I37223254	B05	5/28/19	62	I37223288	J22	5/28/19
29	I37223255	B23	5/28/19	63	I37223289	J23	5/28/19
30	I37223256	B24	5/28/19	64	I37223290	J24	5/28/19
31	I37223257	C01	5/28/19	65	I37223291	PB01	5/28/19
32	I37223258	C02	5/28/19	66	I37223292	PB02	5/28/19
33	I37223259	C03	5/28/19	67	I37223293	PB03	5/28/19
34	I37223260	C04	5/28/19	68	I37223294	PB04	5/28/19

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. 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, 2019.

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.



May 28, 2019

RE: 654049_130mph - H&H/Wilmington/

Trenco
818 Soundside Rd
Edenton, NC 27932

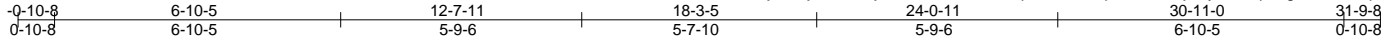
No.	Seal#	Job ID#	Truss Name	Date
69	I37223295	654049_130mph	TR05	5/28/19
70	I37223296	654049_130mph	TR06	5/28/19
71	I37223297	654049_130mph	TR07	5/28/19

Job 654049_130mph	Truss A01	Truss Type HIP GIRDER	Qty 5	Ply 2	H&H/Wilmington/ 137223227
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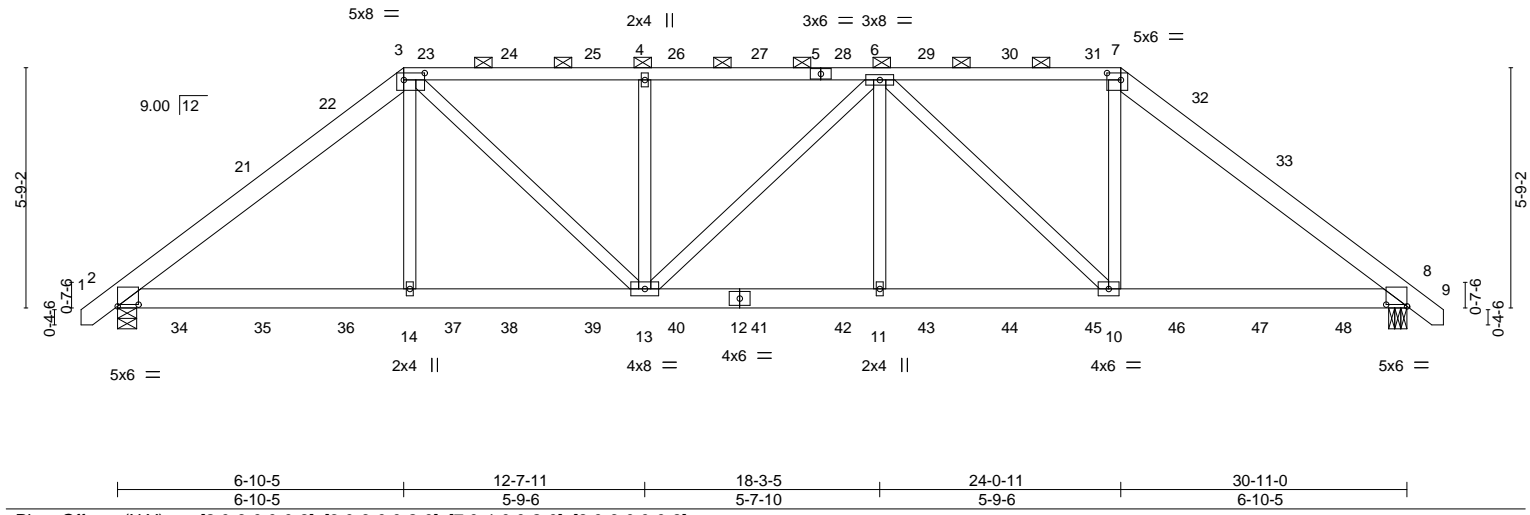
Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:19 2019 Page 1

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Scale = 1:55.2



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 0.53	Vert(LL)	0.13 11-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.12 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.26	Horz(CT)	-0.04 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 413 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5,5-7: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) 2=2201/0-5-8, 8=2198/0-5-4
 Max Horz 2=-195(LC 25)
 Max Uplift 2=-1462(LC 8), 8=-1457(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2857/2057, 3-4=-3001/2394, 4-6=-3001/2394, 6-7=-2225/1742, 7-8=-2850/2047
 BOT CHORD 2-14=-1713/2263, 13-14=-1718/2275, 11-13=-2383/3078, 10-11=-2383/3078,
 8-10=-1596/2193
 WEBS 3-14=-205/525, 3-13=-1052/1192, 4-13=-574/704, 6-11=0/341, 6-10=-1189/1056,
 7-10=-854/1228

- NOTES-**
- 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1462, 8=1457.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

Job 654049_130mph	Truss A01	Truss Type HIP GIRDER	Qty 5	Ply 2	H&H/Wilmington/ Job Reference (optional)	137223227
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:19 2019 Page 2

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NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 84 lb up at 3-6-0, 20 lb down and 45 lb up at 5-6-0, 162 lb down and 199 lb up at 7-5-0, 167 lb down and 199 lb up at 9-5-0, 167 lb down and 199 lb up at 11-5-0, 167 lb down and 199 lb up at 13-5-0, 167 lb down and 199 lb up at 15-5-0, 167 lb down and 199 lb up at 17-5-0, 167 lb down and 199 lb up at 19-5-0, 167 lb down and 199 lb up at 21-5-0, 163 lb down and 199 lb up at 23-5-0, and 20 lb down and 45 lb up at 25-5-0, and 55 lb down and 84 lb up at 27-5-0 on top chord, and 167 lb down and 101 lb up at 1-6-0, 95 lb down and 64 lb up at 3-6-0, 153 lb down and 161 lb up at 5-6-0, 54 lb down and 34 lb up at 7-5-0, 54 lb down and 34 lb up at 9-5-0, 54 lb down and 34 lb up at 11-5-0, 54 lb down and 34 lb up at 13-5-0, 54 lb down and 34 lb up at 15-5-0, 54 lb down and 34 lb up at 17-5-0, 54 lb down and 34 lb up at 19-5-0, 54 lb down and 34 lb up at 21-5-0, 54 lb down and 34 lb up at 23-5-0, 153 lb down and 161 lb up at 25-5-0, and 95 lb down and 64 lb up at 27-5-0, and 167 lb down and 101 lb up at 29-5-0 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: 1-3=-60, 3-7=-60, 7-9=-60, 15-18=-20

Concentrated Loads (lb)

Vert: 21=-15(F) 23=-68(F) 24=-68(F) 25=-68(F) 26=-68(F) 27=-68(F) 28=-68(F) 29=-68(F) 30=-68(F) 31=-68(F) 33=-15(F) 34=-167(F) 35=-95(F) 36=-148(F) 37=-42(F) 38=-42(F) 39=-42(F) 40=-42(F) 41=-42(F) 42=-42(F) 43=-42(F) 44=-42(F) 45=-42(F) 46=-148(F) 47=-95(F) 48=-167(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



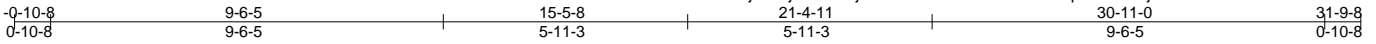
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss A02	Truss Type HIP	Qty 5	Ply 1	H&H/Wilmington/ 137223228
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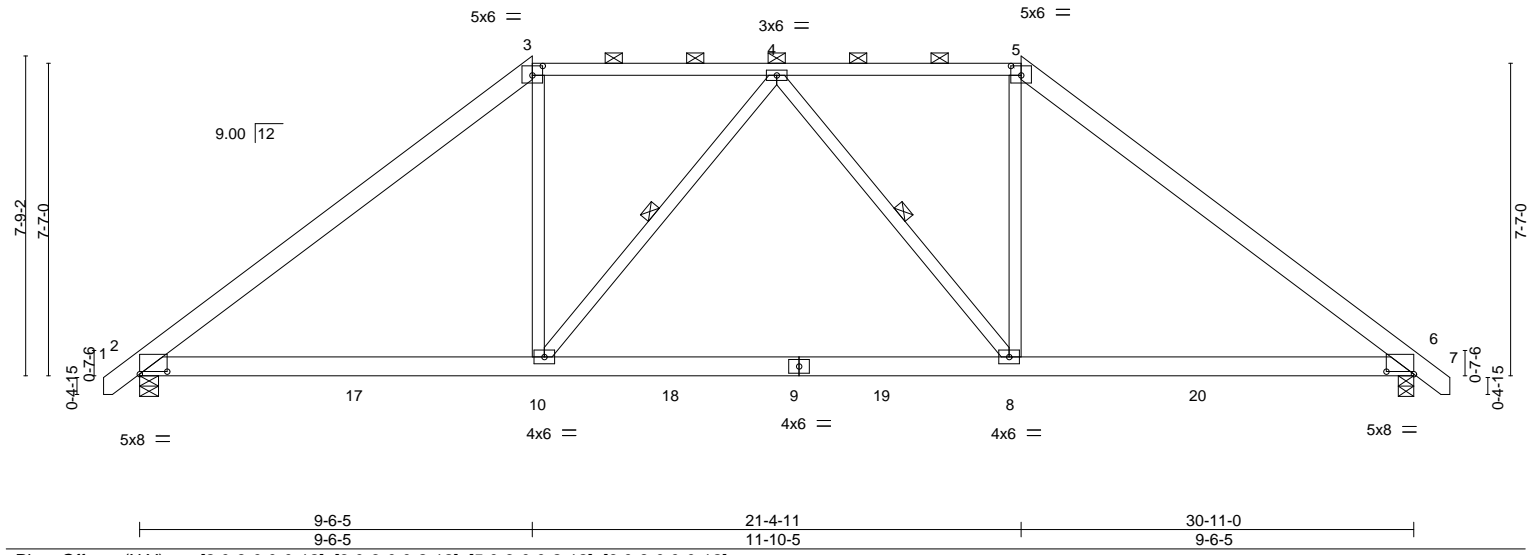
Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:21 2019 Page 1

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Scale = 1:55.9



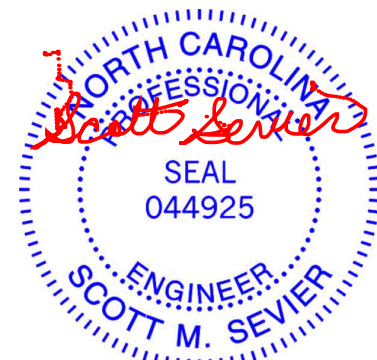
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.62	Vert(LL) -0.14 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.26	Vert(CT) -0.23 8-10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.14 10-13 >999 240	Weight: 198 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-9-10 max.): 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-10, 4-8

REACTIONS. (lb/size) 2=1283/0-5-8, 6=1283/0-4-8
 Max Horz 2=256(LC 11)
 Max Uplift 2=-275(LC 12), 6=-275(LC 13)
 Max Grav 2=1331(LC 2), 6=1331(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1758/555, 3-4=-1317/581, 4-5=-1317/581, 5-6=-1758/555
 BOT CHORD 2-10=-285/1305, 8-10=-314/1429, 6-8=-207/1305
 WEBS 3-10=-61/619, 4-10=-319/288, 4-8=-319/288, 5-8=-61/619

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=275, 6=275.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss A03	Truss Type Hip	Qty 5	Ply 1	H&H/Wilmington/ 137223229
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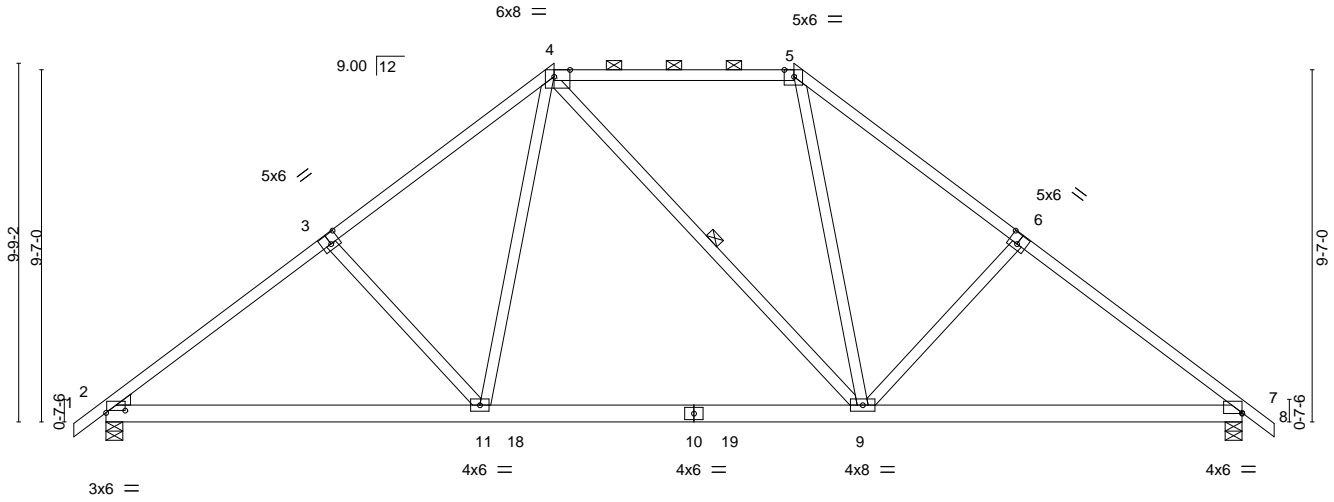
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8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:22 2019 Page 1

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0-10-8 0-10-8	6-1-8 6-1-8	12-2-5 6-0-13	18-8-11 6-6-5	24-9-8 6-0-13	30-11-0 6-1-8	31-9-8 0-10-8
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10-3-14 10-3-14	20-7-2 10-3-4	30-11-0 10-3-14
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Plate Offsets (X,Y)-- [2:0-6-4,0-0-12], [3:0-3-0,0-3-4], [4:0-5-3,Edge], [5:0-3-3,Edge], [6:0-3-0,0-3-4], [7:0-0-0,0-0-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.16	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.23	9-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.03	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.06	11-14	>999	Weight: 195 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-8-11 max.): 4-5.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
4-9: 2x4 SP No.2	WEBS 1 Row at midpt 4-9

WEDGE
Left: 2x4 SP No.3

REACTIONS. (lb/size) 2=1289/0-5-8, 7=1289/0-5-8
Max Horz 2=324(LC 11)
Max Uplift 2=-305(LC 12), 7=-305(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1699/611, 3-4=-1465/625, 4-5=-1097/567, 5-6=-1465/625, 6-7=-1699/611
BOT CHORD 2-11=-376/1403, 9-11=-172/1034, 7-9=-333/1281
WEBS 3-11=-431/359, 4-11=-153/628, 5-9=-118/553, 6-9=-430/359

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=305, 7=305.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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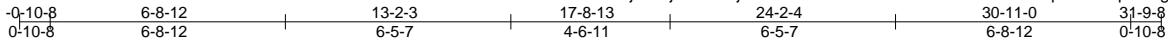
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223230
654049_130mph	A04	PIGGYBACK BASE	67	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:23 2019 Page 1

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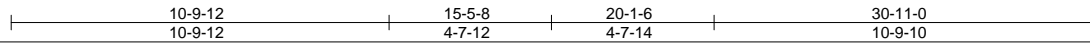
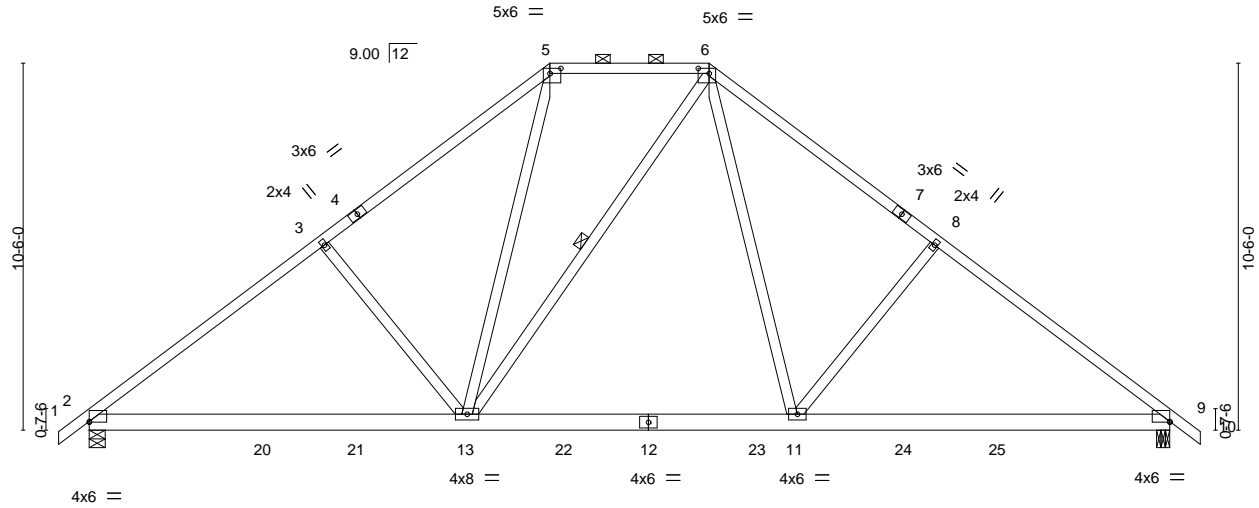


Plate Offsets (X,Y)--	[2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12], [9:0-0-0,0-0-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.10 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.20 11-19	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.03 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07 11-19	>999	240	Weight: 198 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-5-8 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 6-13

REACTIONS.	(lb/size) 2=1289/0-5-8, 9=1289/0-4-8
	Max Horz 2=-353(LC 10)
	Max Uplift 2=-312(LC 12), 9=-312(LC 13)
	Max Grav 2=1303(LC 19), 9=1312(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1686/603, 3-5=-1487/641, 5-6=-1082/562, 6-8=-1504/641, 8-9=-1703/603
BOT CHORD	2-13=-388/1478, 11-13=-47/1000, 9-11=-315/1295
WEBS	3-13=-493/397, 5-13=-175/634, 6-11=-208/727, 8-11=-495/397

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=312, 9=312.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for a particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

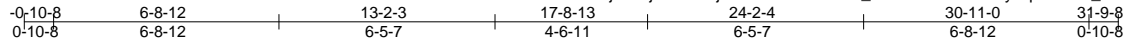
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss A04A	Truss Type PIGGYBACK BASE	Qty 16	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223231
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Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:25 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOfF-6_emhcRLoF2okPTeyZq3ZDk4h_oZ8MVC0?JzgUzC?by



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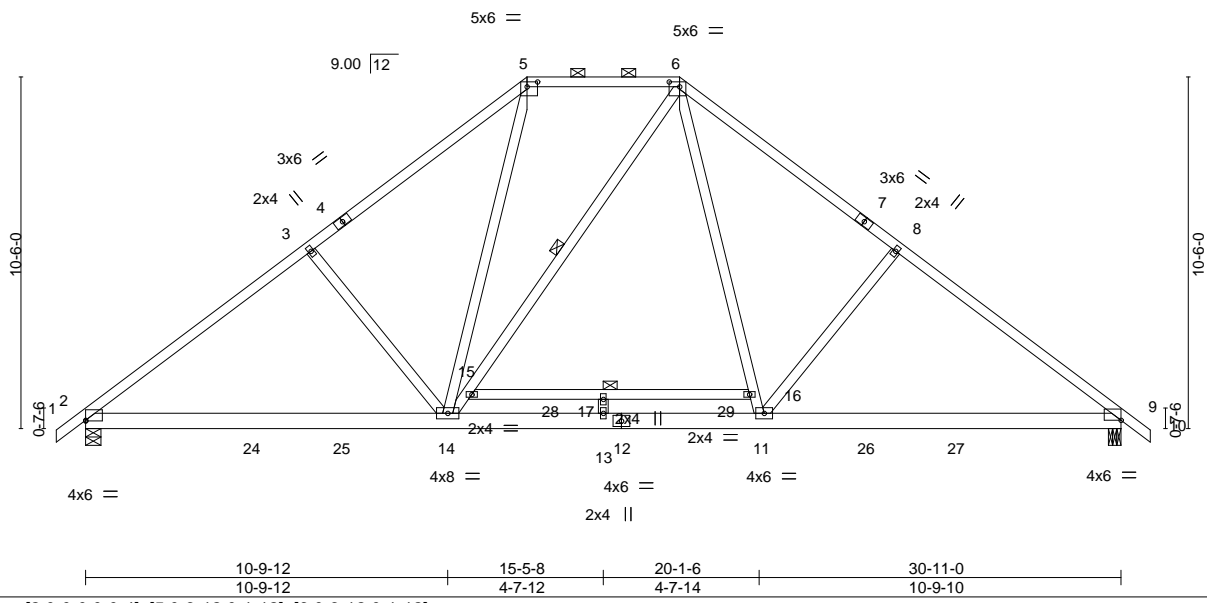


Plate Offsets (X,Y)--	[2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-12	TC 0.68	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.66	Vert(LL) -0.12 13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(CT) -0.21 11-23 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.03 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 11-23 >999 240	Weight: 211 lb	FT = 20%

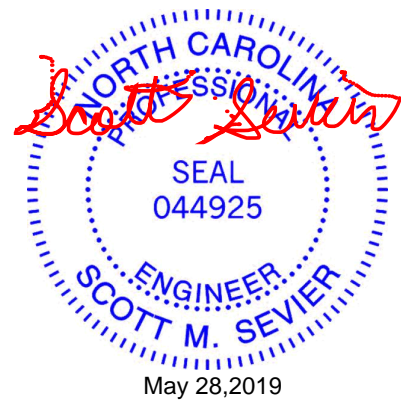
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-5,6-7: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-5 oc purlins, except 2-0-0 oc purlins (5-5-5 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 15-16: 2x4 SP No.2	WEBS 1 Row at midpt 15-16, 6-14

REACTIONS. (lb/size) 2=1329/0-5-8, 9=1329/0-4-8
 Max Horz 2=-364(LC 10)
 Max Uplift 2=-322(LC 12), 9=-322(LC 13)
 Max Grav 2=1336(LC 19), 9=1347(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1734/622, 3-5=-1521/661, 5-6=-1114/578, 6-8=-1537/661, 8-9=-1742/622
 BOT CHORD 2-14=400/1512, 13-14=-44/1013, 11-13=-44/1013, 9-11=-325/1324
 WEBS 3-14=-508/410, 5-14=-183/657, 6-16=-216/743, 11-16=-217/705, 8-11=-509/410

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=322, 9=322.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-62, 5-6=-62, 6-10=-62, 18-21=-21



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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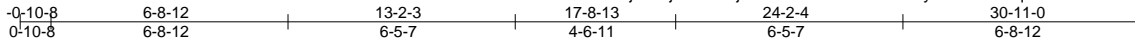
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss A05	Truss Type PIGGYBACK BASE	Qty 33	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223232
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:26 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-bBC8uySzZzAflZ2qVHLI6QH12NA5tpZMdf2WCwzC?bx



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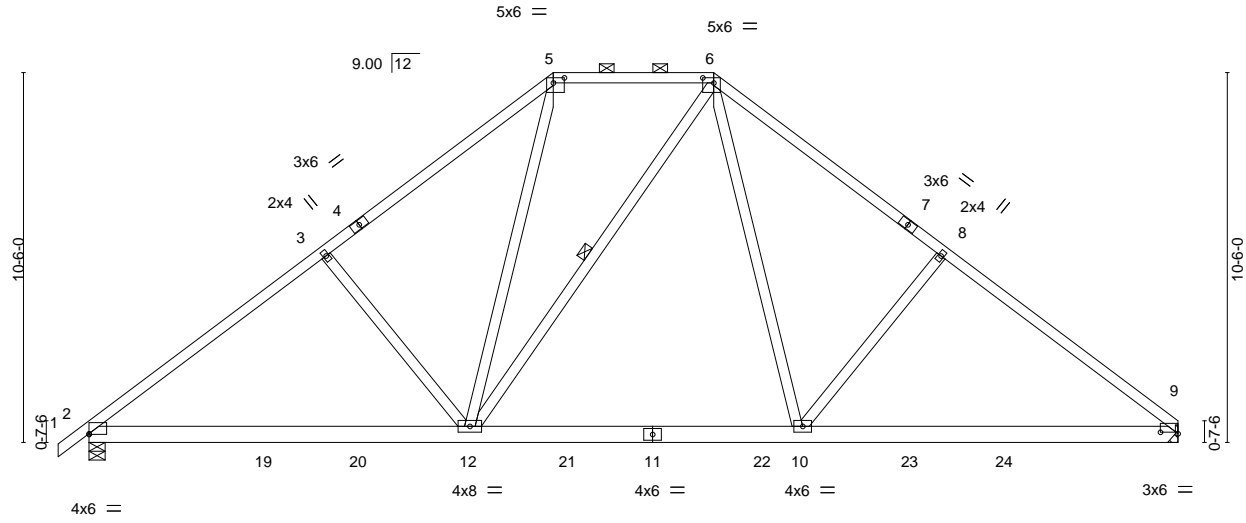


Plate Offsets (X,Y)--	[2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12], [9:0-6-0,0-0-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.10 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.20 10-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.03 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07 10-18	>999	240	Weight: 196 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-5-8 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 6-12

REACTIONS. (lb/size) 2=1290/0-5-8, 9=1236/Mechanical
 Max Horz 2=346(LC 11)
 Max Uplift 2=-312(LC 12), 9=-283(LC 13)
 Max Grav 2=1303(LC 19), 9=1260(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1687/604, 3-5=-1488/642, 5-6=-1083/563, 6-8=-1507/643, 8-9=-1705/606
 BOT CHORD 2-12=-403/1467, 10-12=-75/989, 9-10=-345/1297
 WEBS 3-12=-493/397, 5-12=-176/634, 6-10=-210/730, 8-10=-494/398

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=312, 9=283.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

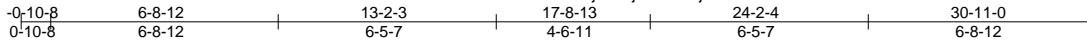
Job 654049_130mph	Truss A05A	Truss Type PIGGYBACK BASE	Qty 35	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223233
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Builders FirstSource,

Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:28 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-XZKuJeUD5aQNbsBDdiNmBrMdUBqVLIQe4zXdHpzC?bv



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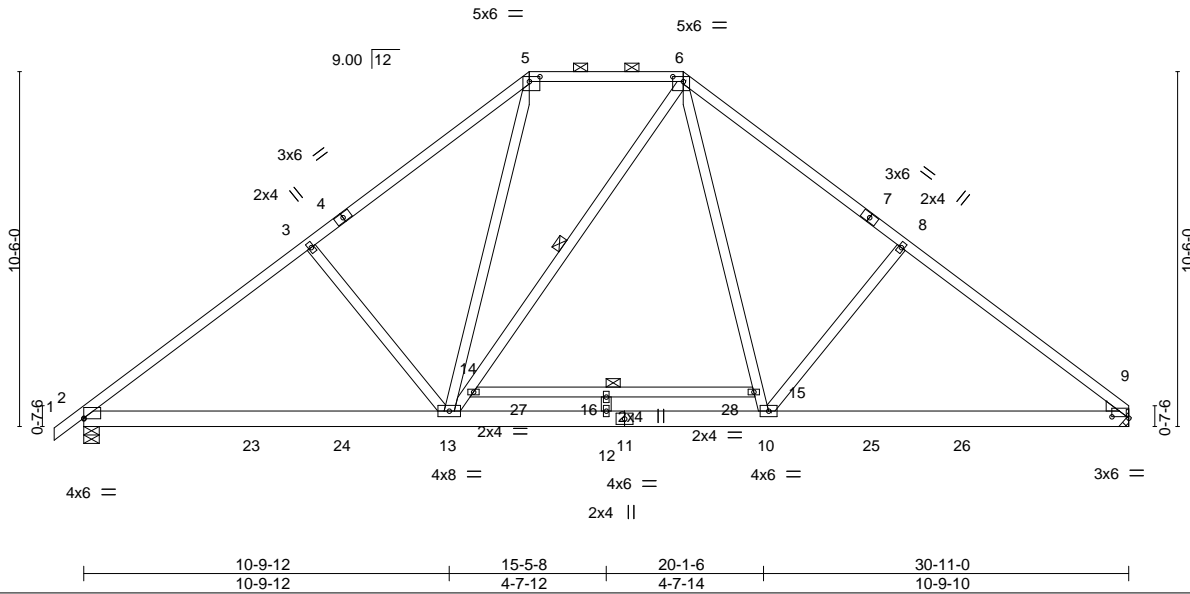


Plate Offsets (X,Y)--	[2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12], [9:0-6-0,0-0-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.14	12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.20	10-22	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.40	Horz(CT)	0.03	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07	10-22	>999		
								Weight: 210 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-5-8 max.): 5-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
14-15: 2x4 SP No.2	WEBS 1 Row at midpt 14-15, 6-13
WEDGE	
Right: 2x4 SP No.3	

REACTIONS.	(lb/size) 2=1290/0-5-8, 9=1236/Mechanical
	Max Horz 2=346(LC 11)
	Max Uplift 2=-312(LC 12), 9=-283(LC 13)
	Max Grav 2=1316(LC 19), 9=1270(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1707/605, 3-5=-1508/642, 5-6=-1083/563, 6-8=-1520/644, 8-9=-1718/606
BOT CHORD	2-13=-403/1483, 12-13=-74/997, 10-12=-74/997, 9-10=-345/1308
WEBS	3-13=-493/397, 5-13=-176/663, 6-15=-210/733, 10-15=-211/694, 8-10=-494/398

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=312, 9=283.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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



Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	I37223233
654049_130mph	A05A	PIGGYBACK BASE	35	1		
Job Reference (optional)						

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:28 2019 Page 2
 ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-XZKuJeUD5aQNbsBDdiNmBrMdUBqVLIQe4zXdHpzC?bv

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-5=-60, 5-6=-60, 6-9=-60, 17-20=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223234
654049_130mph	A06	Piggyback Base Supported Gable	10	1		
Job Reference (optional)						

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:29 2019 Page 1

ID:X0jtQcFjQu8X?XjGN5R0bmzVOFF-?muHW_UrsuYED0mPBpv?k3vu5bJk4DHoJdHApFzC?bu

-0-10-8 13-2-3 17-8-13 30-11-0 31-9-8
 0-10-8 13-2-3 4-6-11 13-2-3 0-10-8

Scale = 1:66.5

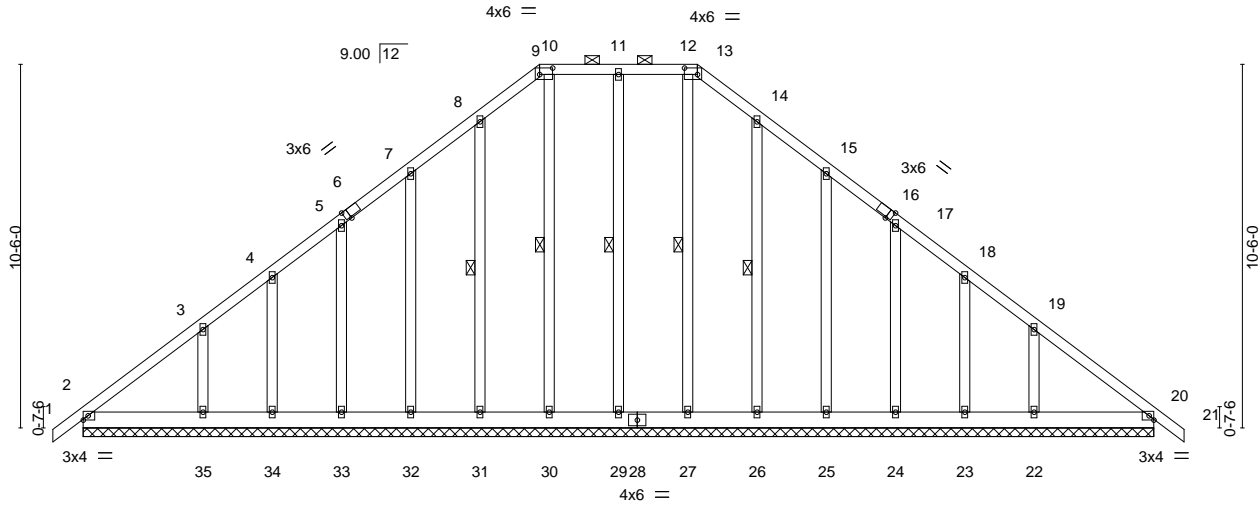


Plate Offsets (X,Y)--	[6:0-1-13,Edge], [9:0-0-0,0-1-12], [9:0-4-8,0-2-4], [10:0-1-12,0-0-0], [12:0-1-12,0-0-0], [13:0-4-8,0-2-4], [13:0-0-0,0-1-12], [16:0-1-13,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	0.00	21	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	0.00	21	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01	20	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 257 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 9-13.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
	WEBS 1 Row at midpt 11-29, 10-30, 8-31, 12-27, 14-26

REACTIONS. All bearings 30-11-0.
 (lb) - Max Horz 2=-353(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 29, 30, 31, 34, 26, 23 except 32=-121(LC 12),
 33=-121(LC 12), 35=-215(LC 12), 25=-122(LC 13), 24=-121(LC 13), 22=-212(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23 except
 35=320(LC 19), 22=317(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-344/262, 8-9=-263/299, 9-10=-230/272, 10-11=-230/272, 11-12=-230/272,
 12-13=-230/272, 13-14=-263/299, 19-20=-280/193
 BOT CHORD 2-35=-199/303, 34-35=-199/303, 33-34=-199/303, 32-33=-199/303, 31-32=-199/303,
 30-31=-199/303, 29-30=-199/303, 27-29=-199/303, 26-27=-199/303, 25-26=-199/303,
 24-25=-199/303, 23-24=-199/303, 22-23=-199/303, 20-22=-199/303
 WEBS 3-35=-268/226, 19-22=-269/223

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 29, 30, 31, 34, 26, 23 except (jt=lb) 32=121, 33=121, 35=215, 25=122, 24=121, 22=212.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



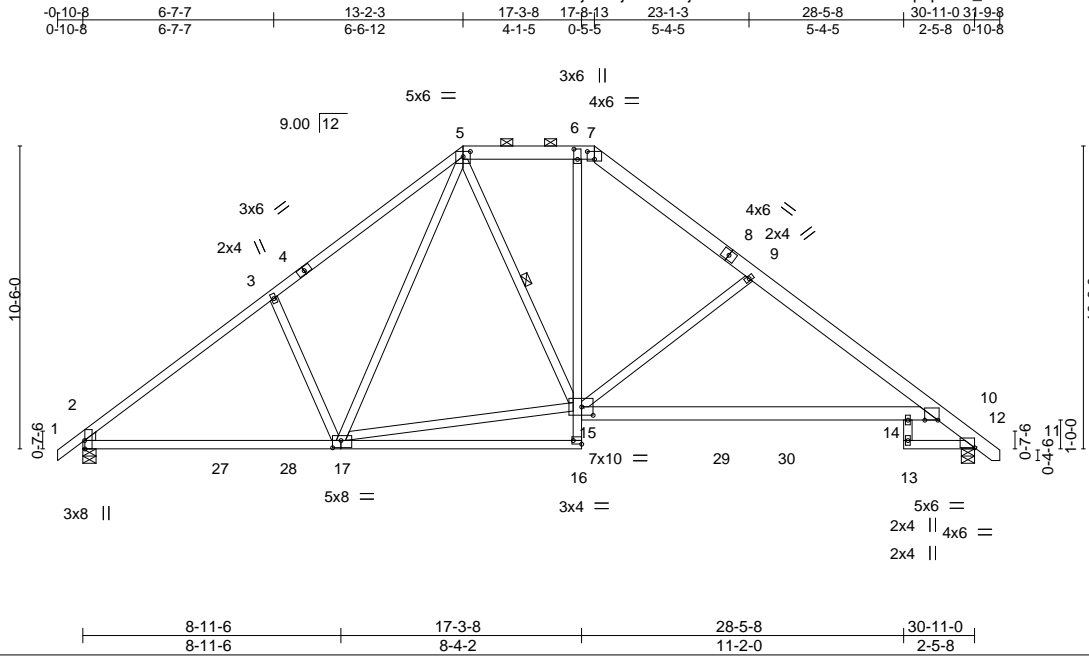
May 28, 2019

Job 654049_130mph	Truss A07	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223235
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:32 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-PLZP9?Xk9p4UV_sXSiLhWD3o8VHQbE?bVqQazC?br



Scale = 1:79.9

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-0-8,0-3-12], [2:0-0-4,0-0-5], [5:0-3-0,0-2-2], [6:0-4-4,0-1-8], [7:0-3-0,0-3-4], [10:0-5-7,0-0-0], [15:0-4-12,0-3-8], [16:Edge,0-1-8], [17:0-3-8,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.27 14-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.64 14-15	>582	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.22 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.25 14-15	>999	240	Weight: 214 lb	FT = 20%

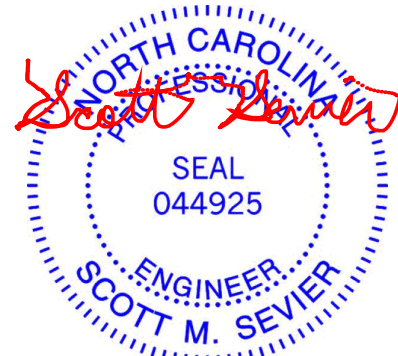
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
5-7,7-8: 2x6 SP No.2, 8-12: 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
10-15: 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. (lb/size) 11=1281/0-5-8, 2=1289/0-5-8
Max Horz 2=-352(LC 10)
Max Uplift 11=-307(LC 13), 2=-312(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1677/587, 3-5=-1594/713, 5-6=-1153/554, 6-7=-1159/551, 7-9=-1448/598,
9-10=-1800/657, 10-11=-783/314
BOT CHORD 2-17=-380/1373, 6-15=-198/725, 14-15=-343/1488, 10-14=-343/1488
WEBS 3-17=-481/400, 5-17=-274/554, 15-17=-96/1190, 5-15=-138/263, 9-15=-698/401

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=307, 2=312.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



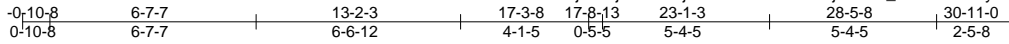
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss A08	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223236
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:34 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOff-MjhAahY_hQBxJnfMzyUAQ6cZPcqwK9XTv_xUSzC?bp



Scale = 1:73.9

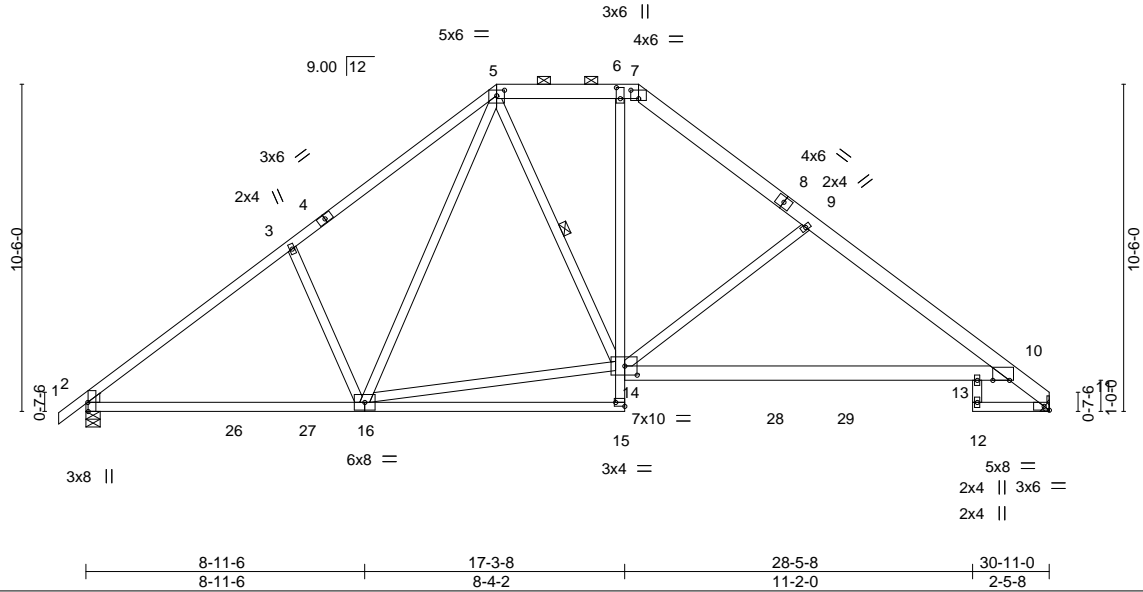


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [2:0-0-8,0-3-12], [2:0-0-4,0-0-5], [5:0-3-0,0-2-2], [6:0-4-4,0-1-8], [7:0-3-0,0-3-4], [10:0-6-7,0-0-0], [11:0-2-0,Edge], [14:0-4-12,0-3-8], [15:Edge,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.94	Vert(LL) -0.27	13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.84	Vert(CT) -0.64	13-14	>579	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.77	Horz(CT) 0.22	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL) 0.26	13-14	>999	240		
								Weight: 211 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-7,7-8: 2x6 SP No.2, 8-11: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x4 SP No.2 *Except* 10-14: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-14
WEDGE Left: 2x4 SP No.3	

REACTIONS. (lb/size) 11=1236/Mechanical, 2=1290/0-5-8 Max Horz 2=344(LC 11) Max Uplift 11=-283(LC 13), 2=-312(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1678/588, 3-5=-1594/714, 5-6=-1152/558, 6-7=-1158/555, 7-9=-1450/604, 9-10=-1802/664, 10-11=-784/285
BOT CHORD 2-16=-392/1364, 6-14=-203/722, 13-14=-374/1491, 10-13=-374/1491
WEBS 3-16=-481/400, 5-16=-272/550, 14-16=-110/1181, 5-14=-140/263, 9-14=-695/406

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi, Joint 11 User Defined crushing capacity of 425 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=283, 2=312.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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Job 654049_130mph	Truss A09	Truss Type HIP GIRDER	Qty 1	Ply 2	H&H/Wilmington/ Job Reference (optional)	137223237
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:38 2019 Page 1

ID: X0jtQcFjQu8X?XjGN5R0bmzVOFF-EUwP3bVkfhyoPy8CoZ6bymLoDCAhGG7Oxy9dDzC?bl

0-10-8 0-10-8	6-10-5 6-10-5	12-0-15 5-2-9	17-3-8 5-2-9	24-0-11 6-9-3	28-5-8 4-4-13	30-11-0 2-5-8	31-9-8 0-10-8
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Scale = 1:55.2

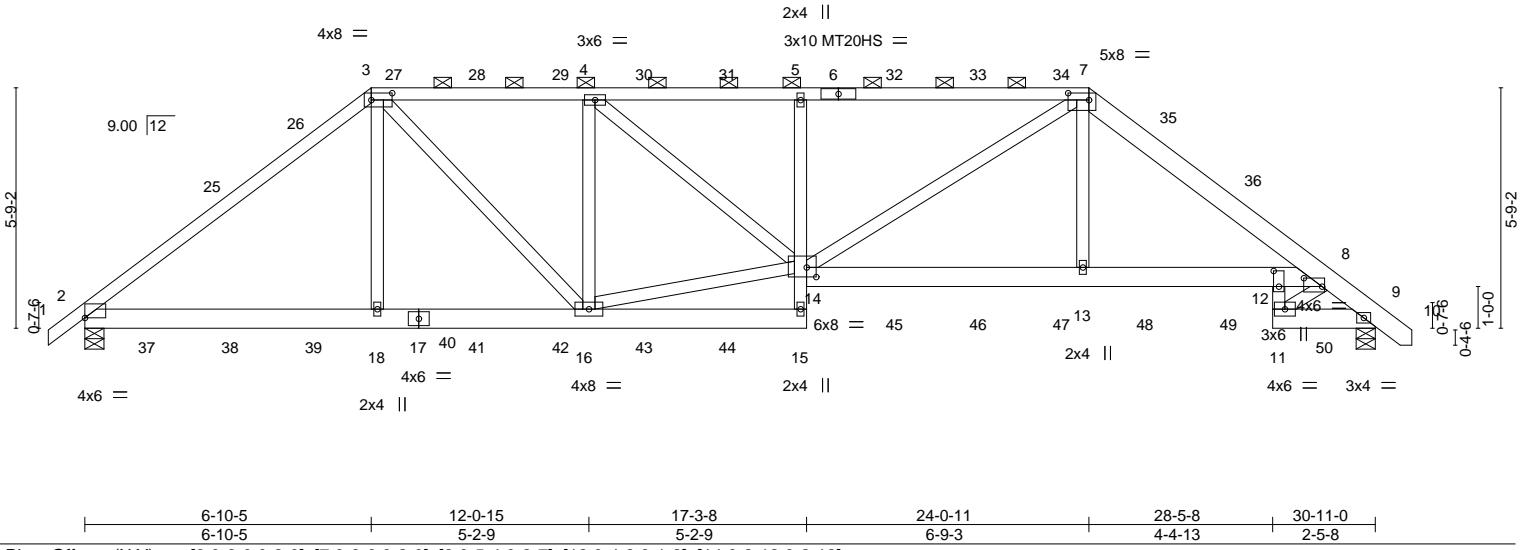


Plate Offsets (X,Y)--	[3:0-6-0,0-2-0], [7:0-6-0,0-2-0], [8:0-5-4,0-2-7], [12:0-4-8,0-1-8], [14:0-2-12,0-2-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	0.21	13-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.20	12-13	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.32	Horz(CT)	0.11	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 414 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 7-10: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD 2x6 SP No.2 *Except* 5-15: 2x4 SP No.2, 8-14: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 12-13
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) 2=2187/0-5-8, 9=2129/0-5-8
 Max Horz 2=196(LC 26)
 Max Uplift 2=-1480(LC 8), 9=-1453(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2838/2060, 3-4=-2880/2366, 4-5=-3603/2985, 5-7=-3633/3012, 7-8=-3415/2585, 8-9=-2785/1991
 BOT CHORD 2-18=-1715/2240, 16-18=-1720/2251, 15-16=-273/369, 5-14=-446/523, 13-14=-2087/2768, 12-13=-2068/2737, 8-12=-2068/2737, 9-11=-1310/1876
 WEBS 3-18=-202/498, 3-16=-1078/1188, 4-16=-1184/1192, 14-16=-2167/2735, 4-14=-807/981, 7-14=-1110/1221, 7-13=-625/961, 11-12=-1246/1823, 8-11=-2523/1762

- NOTES-** (13)
- 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, 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1480, 9=1453.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 654049_130mph	Truss A09	Truss Type HIP GIRDER	Qty 1	Ply 2	H&H/Wilmington/ Job Reference (optional)	137223237
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:38 2019 Page 2

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-EUwgP3bVkfhyoPy8CoZ6bymLoDCAhGG7Oxy9dDzC?bl

NOTES- (13)

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 84 lb up at 3-6-0, 20 lb down and 45 lb up at 5-6-0, 162 lb down and 199 lb up at 7-5-0, 167 lb down and 199 lb up at 9-5-0, 167 lb down and 199 lb up at 11-5-0, 167 lb down and 199 lb up at 13-5-0, 167 lb down and 199 lb up at 15-5-0, 106 lb down and 103 lb up at 17-5-0, 106 lb down and 103 lb up at 19-5-0, 106 lb down and 103 lb up at 21-5-0, 102 lb down and 103 lb up at 23-5-0, and 84 lb down and 131 lb up at 25-5-0, and 88 lb down and 104 lb up at 27-5-0 on top chord, and 167 lb down and 101 lb up at 1-6-0, 95 lb down and 64 lb up at 3-6-0, 153 lb down and 161 lb up at 5-6-0, 54 lb down and 34 lb up at 7-5-0, 54 lb down and 34 lb up at 9-5-0, 54 lb down and 34 lb up at 11-5-0, 54 lb down and 34 lb up at 13-5-0, 54 lb down and 34 lb up at 15-5-0, 120 lb down and 136 lb up at 17-1-12, 120 lb down and 136 lb up at 19-5-0, 120 lb down and 136 lb up at 21-5-0, 120 lb down and 136 lb up at 23-5-0, 67 lb down and 76 lb up at 25-5-0, and 53 lb down and 42 lb up at 27-5-0, and 167 lb down and 101 lb up at 29-8-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 7-10=-60, 15-19=-20, 12-14=-20, 11-22=-20

Concentrated Loads (lb)

Vert: 15=-92(F) 5=-8(F) 8=-167(F) 25=-15(F) 27=-68(F) 28=-68(F) 29=-68(F) 30=-68(F) 31=-68(F) 32=-8(F) 33=-8(F) 34=-8(F) 35=-44(F) 36=-48(F) 37=-167(F) 38=-95(F) 39=-148(F) 40=-42(F) 41=-42(F) 42=-42(F) 43=-42(F) 44=-42(F) 45=-92(F) 46=-92(F) 47=-92(F) 48=-57(F) 49=-53(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223238
654049_130mph	A10	HIP	1	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:40 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOfF-At2RqkdGGxg1i6WKDbagNsfy1vM98lQrrRGi6zC?bj

-0-10-8 9-6-5 17-3-8 21-4-11 28-5-8 30-11-0 31-9-8
 0-10-8 9-6-5 7-9-3 4-1-3 7-0-13 2-5-8 0-10-8

Scale = 1:61.0

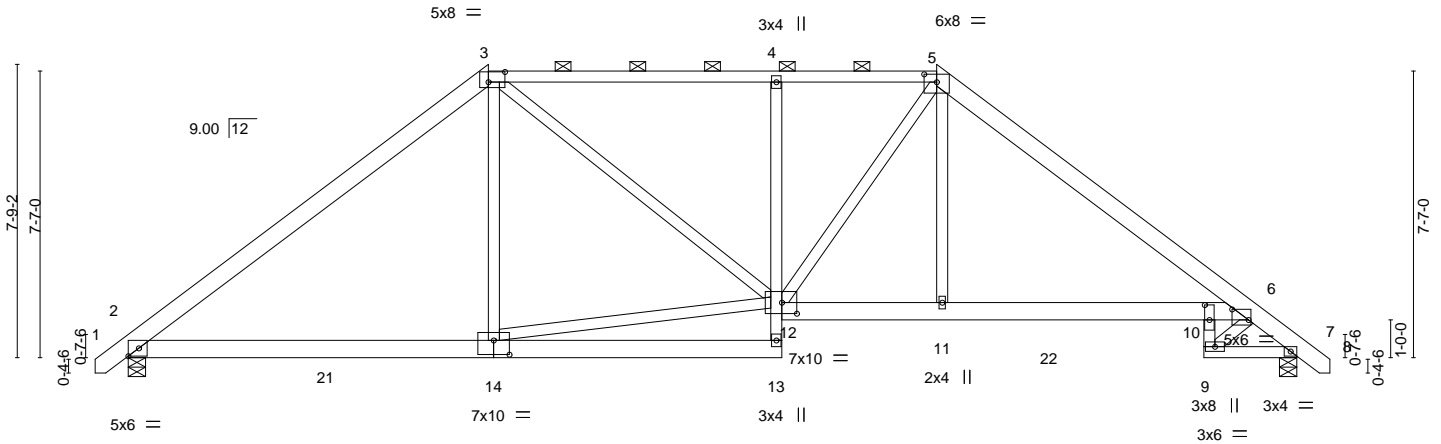


Plate Offsets (X,Y)--	[2:Edge,0-2-8], [3:0-5-4,0-3-4], [5:0-4-0,0-2-8], [6:0-5-4,0-3-6], [10:0-4-12,0-1-8], [12:0-4-12,0-3-8], [14:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.16 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.33 10-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.14 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.19 10-11	>999	240	Weight: 219 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-7-5 max.): 3-5.
BOT CHORD 2x6 SP No.2 *Except* 4-13,7-9: 2x4 SP No.2, 6-12: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 10-11
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 7=1281/0-5-8, 2=1281/0-5-8
 Max Horz 2=256(LC 11)
 Max Uplift 7=-274(LC 13), 2=-274(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1639/572, 3-4=-1525/686, 4-5=-1510/675, 5-6=-1867/641, 6-7=-1578/620
 BOT CHORD 2-14=-296/1192, 13-14=-24/262, 4-12=-366/280, 11-12=-265/1414, 10-11=-266/1425,
 6-10=-266/1425, 7-9=-417/1073
 WEBS 3-14=0/299, 12-14=-284/949, 3-12=-249/514, 5-12=-284/313, 9-10=-398/1076,
 5-11=-63/551, 6-9=-1499/583

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=274, 2=274.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



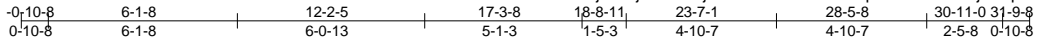
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss A11	Truss Type HIP	Qty 1	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223239
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:41 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-e3cp24eN1a3Xfshjuw6pDaOlnQFtuVvZ4VBpEYzC?bi



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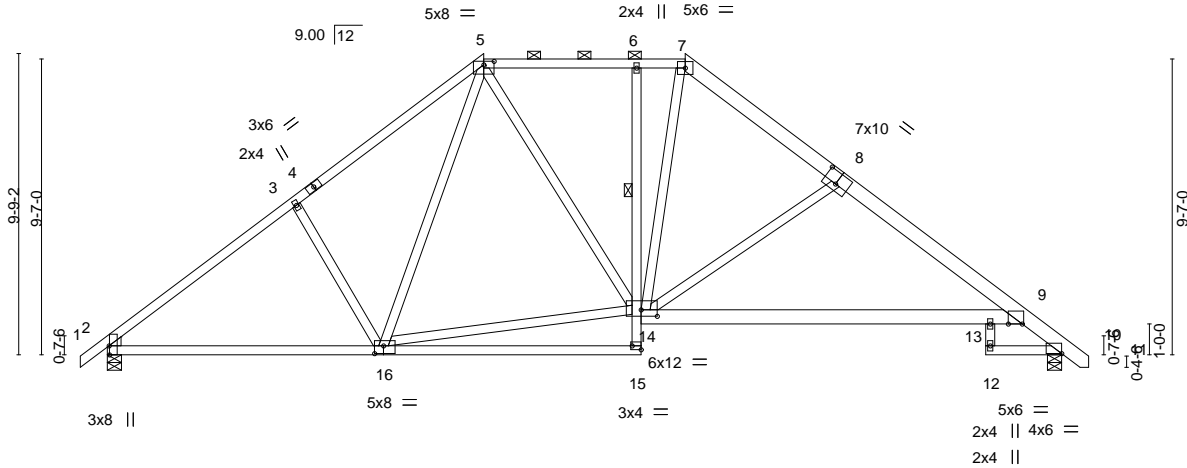


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [2:0-0-8,0-3-12], [2:0-0-4,0-0-5], [5:0-4-0,0-1-6], [8:0-5-0,0-4-8], [9:0-5-7,0-0-0], [14:0-6-4,0-2-8], [15:Edge,0-1-8], [16:0-3-8,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.93	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.25 13-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.77	Vert(CT) -0.61 13-14 >610 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.21 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.24 13-14 >999 240	Weight: 217 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 7-8: 2x6 SP No.2, 8-11: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-1-9 max.): 5-7.
BOT CHORD 2x4 SP No.2 *Except* 9-14: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 1 Row at midpt 6-14
WEBS 2x4 SP No.3	
WEDGE Left: 2x4 SP No.3	

REACTIONS. (lb/size) 10=1281/0-5-8, 2=1289/0-5-8
 Max Horz 2=-325(LC 10)
 Max Uplift 10=-300(LC 13), 2=-304(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1685/599, 3-5=-1515/675, 5-6=-1225/582, 6-7=-1233/578, 7-8=-1454/590,
 8-9=-1834/674, 9-10=-783/317
 BOT CHORD 2-16=-368/1269, 6-14=-261/177, 13-14=-367/1534, 9-13=-367/1534
 WEBS 3-16=-425/361, 5-16=-207/460, 14-16=-124/1145, 5-14=-139/377, 7-14=-235/726,
 8-14=-704/373

- NOTES-** (10)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=300, 2=304.
 - 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.
 - 10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

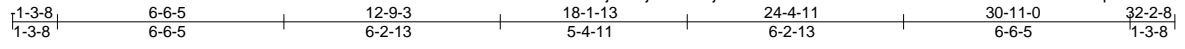


818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss A24	Truss Type Piggyback Base	Qty 12	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223240
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Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:42 2019 Page 1

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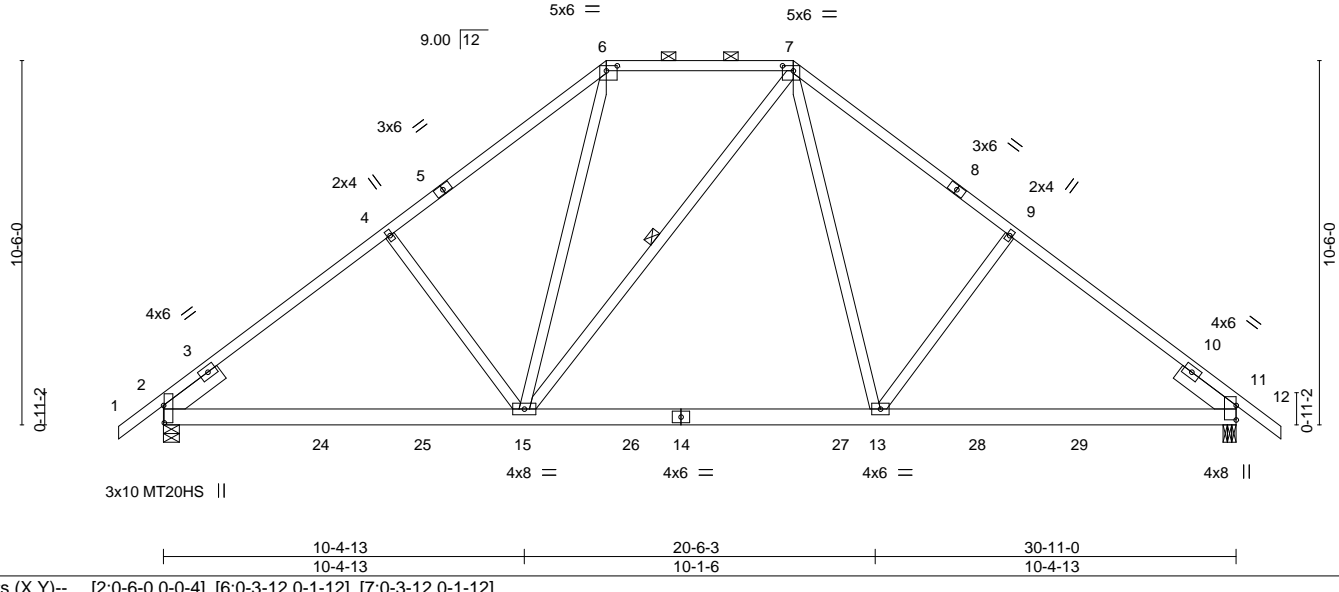


Plate Offsets (X,Y)--	[2:0-6-0,0-0-4], [6:0-3-12,0-1-12], [7:0-3-12,0-1-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	Lumber DOL 1.15	Vert(LL) -0.14 13-15 >999 360	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Vert(CT) -0.22 13-15 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) 0.04 11 n/a n/a		
			Wind(LL) 0.05 13-15 >999 240	Weight: 209 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-6-9 max.): 6-7.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
7-15: 2x4 SP No.2	WEBS 1 Row at midpt 7-15
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 2=1314/0-5-8, 11=1314/0-4-8
 Max Horz 2=353(LC 11)
 Max Uplift 2=-320(LC 12), 11=-320(LC 13)
 Max Grav 2=1328(LC 19), 11=1340(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1607/582, 4-6=-1457/632, 6-7=-1058/560, 7-9=-1477/632, 9-11=-1628/582
 BOT CHORD 2-15=-356/1410, 13-15=-57/982, 11-13=-281/1242
 WEBS 4-15=-442/373, 6-15=-153/591, 7-13=-194/695, 9-13=-442/373

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=320, 11=320.
- 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.



May 28, 2019

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

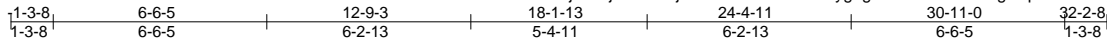
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss A24A	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223241
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:44 2019 Page 1

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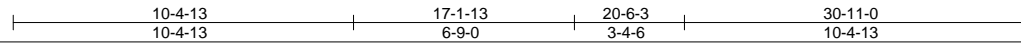
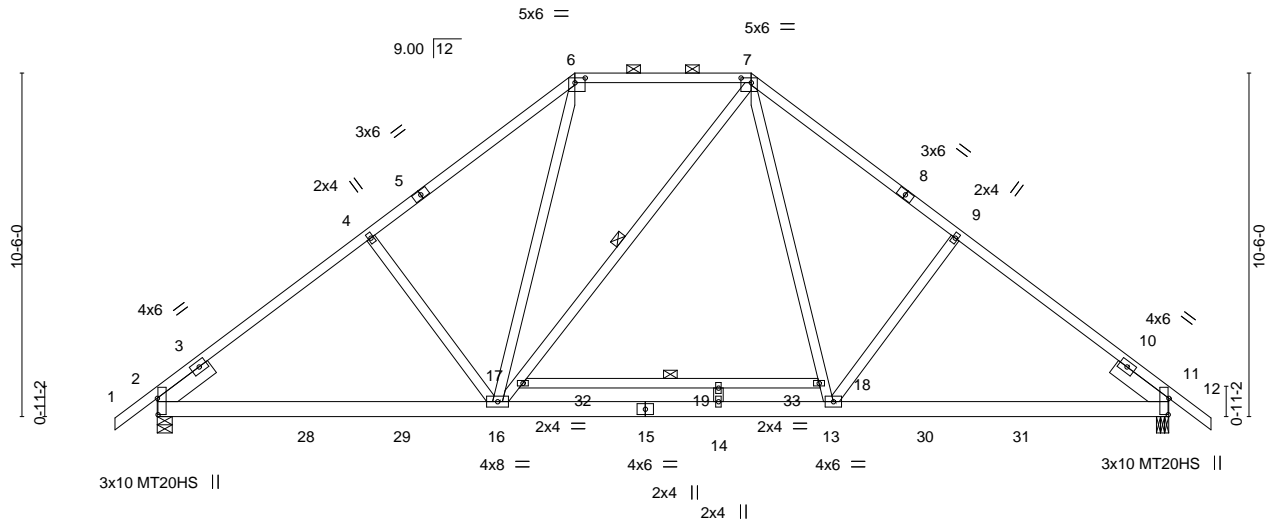


Plate Offsets (X,Y)--	[2:0-6-0,0-0-4], [6:0-3-12,0-1-12], [7:0-3-12,0-1-12], [11:0-6-0,0-0-4]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-12	BC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.20 14-16 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Vert(CT) -0.28 14-16 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.04 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 14 >999 240	Weight: 223 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-6,7-8: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except 2-0-0 oc purlins (5-5-9 max.): 6-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 7-16,17-18: 2x4 SP No.2	WEBS 1 Row at midpt 7-16, 17-18
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

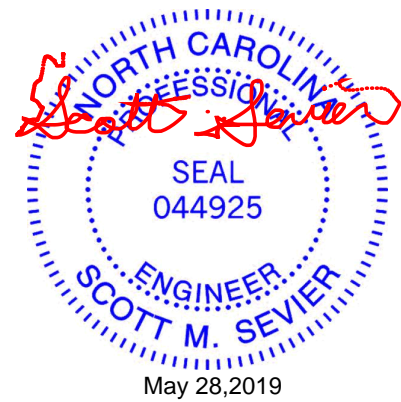
REACTIONS. (lb/size) 2=1355/0-5-8, 11=1355/0-4-8
 Max Horz 2=-364(LC 10)
 Max Uplift 2=-330(LC 12), 11=-330(LC 13)
 Max Grav 2=1374(LC 19), 11=1383(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1659/601, 4-6=-1505/653, 6-7=-1088/576, 7-9=-1523/653, 9-11=-1677/601
 BOT CHORD 2-16=-366/1456, 14-16=-54/1015, 13-14=-54/1015, 11-13=-290/1282
 WEBS 4-16=-458/384, 6-16=-161/646, 7-18=-203/715, 13-18=-206/698, 9-13=-459/384

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=330, 11=330.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

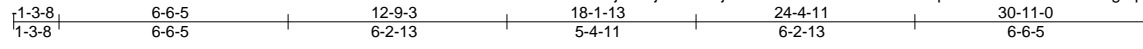
LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-62, 6-7=-62, 7-12=-62, 20-24=-21



Job 654049_130mph	Truss A25	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	H&H/Wilmington/ 137223242
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Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:45 2019 Page 1

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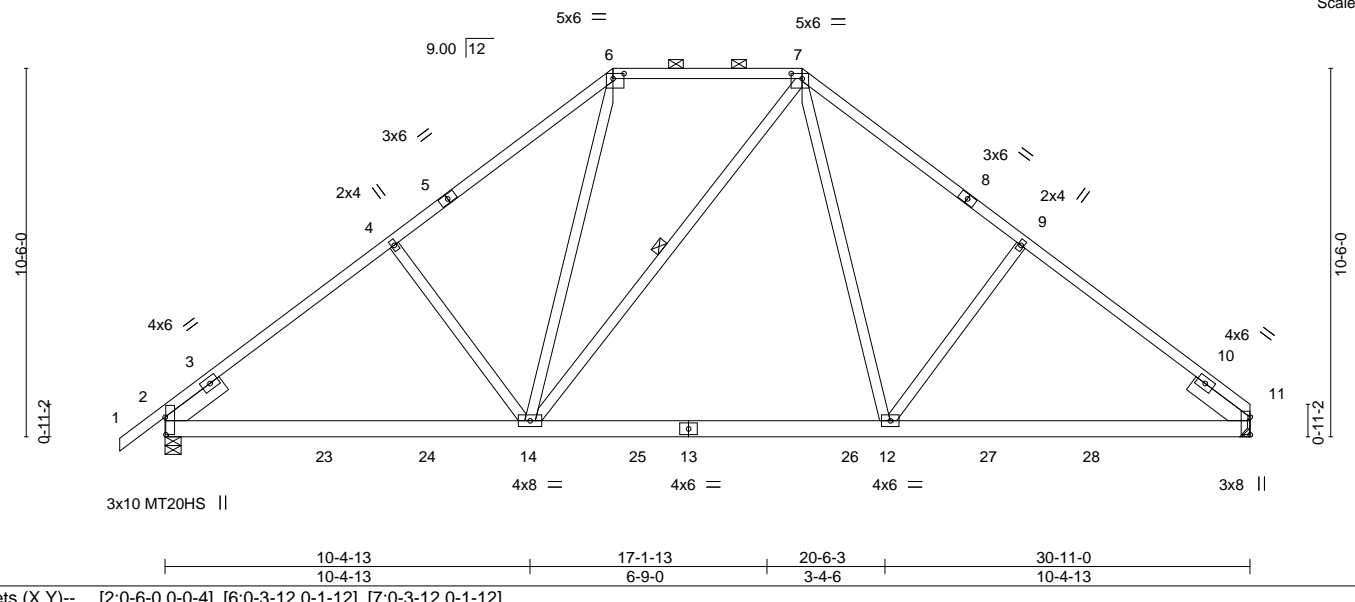


Plate Offsets (X,Y)--	[2:0-6-0,0-0-4], [6:0-3-12,0-1-12], [7:0-3-12,0-1-12]
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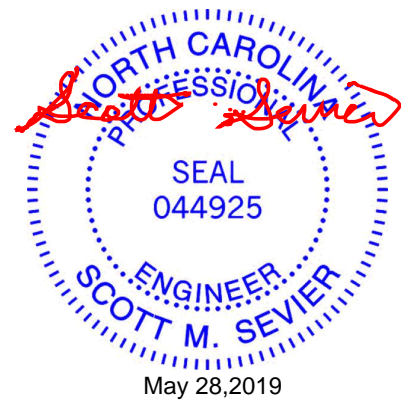
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.41	Vert(LL)	-0.13	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.22	12-14	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.03	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.05	12-21	>999		
								Weight: 207 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-6-9 max.): 6-7.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
7-14: 2x4 SP No.2	WEBS 1 Row at midpt 7-14
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 2=1316/0-5-8, 11=1235/Mechanical
 Max Horz 2=342(LC 9)
 Max Uplift 2=-321(LC 12), 11=-277(LC 13)
 Max Grav 2=1329(LC 19), 11=1266(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1609/584, 4-6=-1459/635, 6-7=-1059/562, 7-9=-1483/637, 9-11=-1633/586
 BOT CHORD 2-14=-377/1395, 12-14=-90/971, 11-12=-325/1248
 WEBS 4-14=-442/373, 6-14=-154/592, 7-12=-198/702, 9-12=-442/374

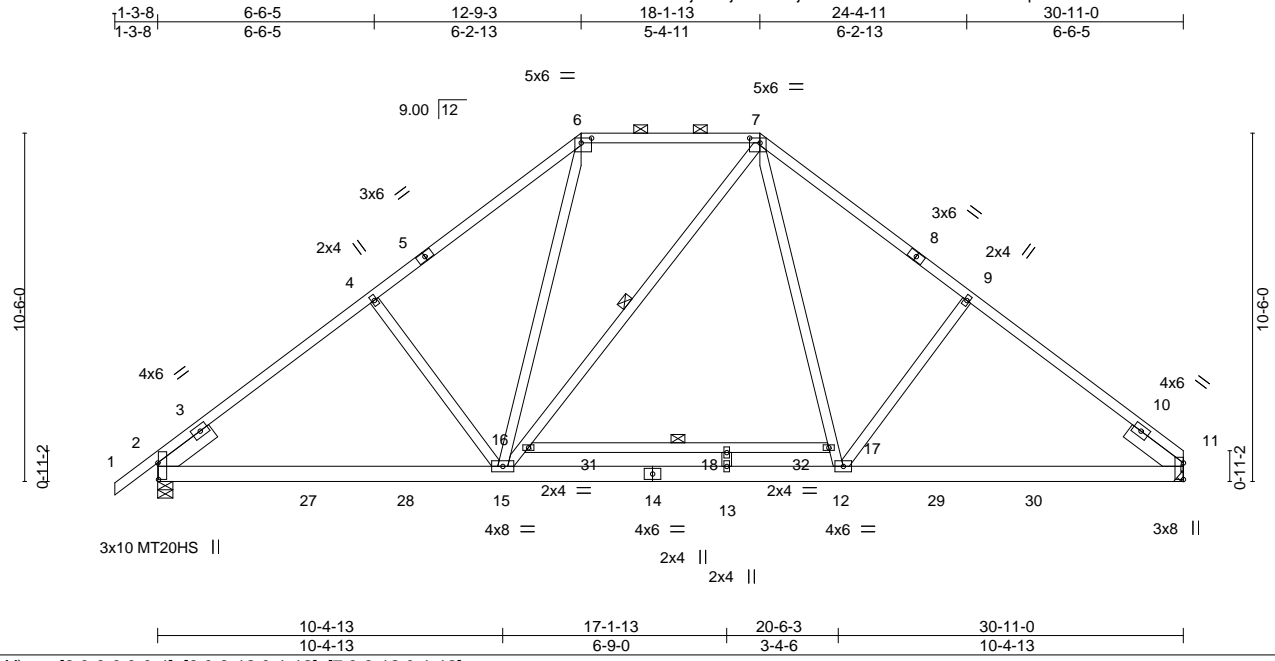
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C 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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=321, 11=277.
 - 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.



Job 654049_130mph	Truss A25A	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223243
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Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:47 2019 Page 1

ID: X0jtQcFjQu8X?XjGN5R0bmzVOFF-TDz4I8idQqhNn8sEBDDSreuKrKLIoRSRe7SCzC?bc



Scale = 1:69.5

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 0.48	Vert(LL)	-0.19 13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.27 13-15	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.42	Horz(CT)	0.03 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.05 12-25	>999	240		Weight: 221 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-6-9 max.): 6-7.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
7-15,16-17: 2x4 SP No.2	WEBS 1 Row at midpt 7-15, 16-17
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 2=1316/0-5-8, 11=1235/Mechanical
 Max Horz 2=342(LC 9)
 Max Uplift 2=-321(LC 12), 11=-277(LC 13)
 Max Grav 2=1336(LC 19), 11=1269(LC 2)

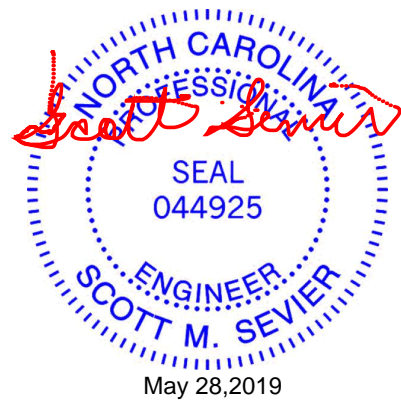
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1615/584, 4-6=-1465/635, 6-7=-1059/562, 7-9=-1487/637, 9-11=-1637/587
 BOT CHORD 2-15=-378/1400, 13-15=-88/981, 12-13=-88/981, 11-12=-326/1251
 WEBS 4-15=-442/372, 6-15=-155/628, 7-17=-199/701, 12-17=-202/685, 9-12=-442/374

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=321, 11=277.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-7=-60, 7-11=-60, 19-23=-20



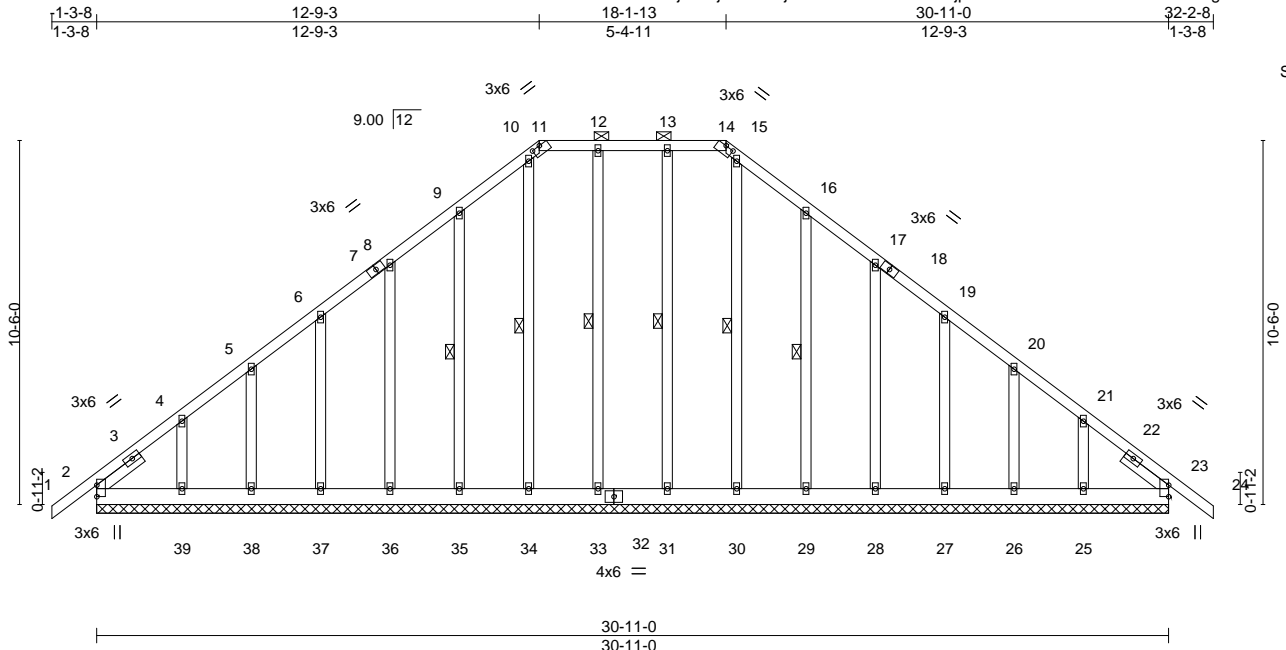
Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223244
654049_130mph	A26	GABLE	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:49 2019 Page 1

ID:XOjQcFjQu8X?XjGN5R0bmzVOFF-Pc5rjpkO914Oc5IFMcGhXGkJBf7PmGgkwk7EW5zC?ba

Job Reference (optional)



Scale = 1:66.5

Plate Offsets (X,Y)--	[11:0-3-0,0-0-1], [14:0-3-0,0-0-1], [15:0-0-0,0-0-0], [16:0-0-0,0-0-0], [17:0-0-0,0-0-0], [19:0-0-0,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) -0.00 24 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Vert(CT) -0.00 24 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 23 n/a n/a		
	Code IRC2015/TPI2014			Weight: 270 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 11-14.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x4 SP No.2 1-7-2, Right 2x4 SP No.2 1-7-2	WEBS 1 Row at midpt 12-33, 10-34, 9-35, 13-31, 15-30, 16-29

REACTIONS. All bearings 30-11-0.
 (lb) - Max Horz 2=353(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 33, 34, 38, 31, 26, 23 except 2=-122(LC 8), 35=-132(LC 12), 36=-112(LC 12), 37=-122(LC 12), 39=-227(LC 12), 29=-134(LC 13), 28=-112(LC 13), 27=-121(LC 13), 25=-212(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 33, 34, 35, 36, 37, 38, 31, 30, 29, 28, 27, 26, 25, 23 except 2=266(LC 20), 39=251(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-350/266, 9-10=-273/302, 10-11=-222/251, 11-12=-242/279, 12-13=-242/279, 13-14=-242/279, 14-15=-222/251, 15-16=-273/302, 21-23=-287/185
 BOT CHORD 2-39=-187/298, 38-39=-187/298, 37-38=-187/298, 36-37=-187/298, 35-36=-187/298, 34-35=-187/298, 33-34=-187/298, 31-33=-187/298, 30-31=-187/298, 29-30=-187/298, 28-29=-187/298, 27-28=-187/298, 26-27=-187/298, 25-26=-187/298, 23-25=-187/298

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 34, 38, 31, 26, 23 except (jt=lb) 2=122, 35=132, 36=112, 37=122, 39=227, 29=134, 28=112, 27=121, 25=212.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223245
654049_130mph	A34	PIGGYBACK BASE	12	1		

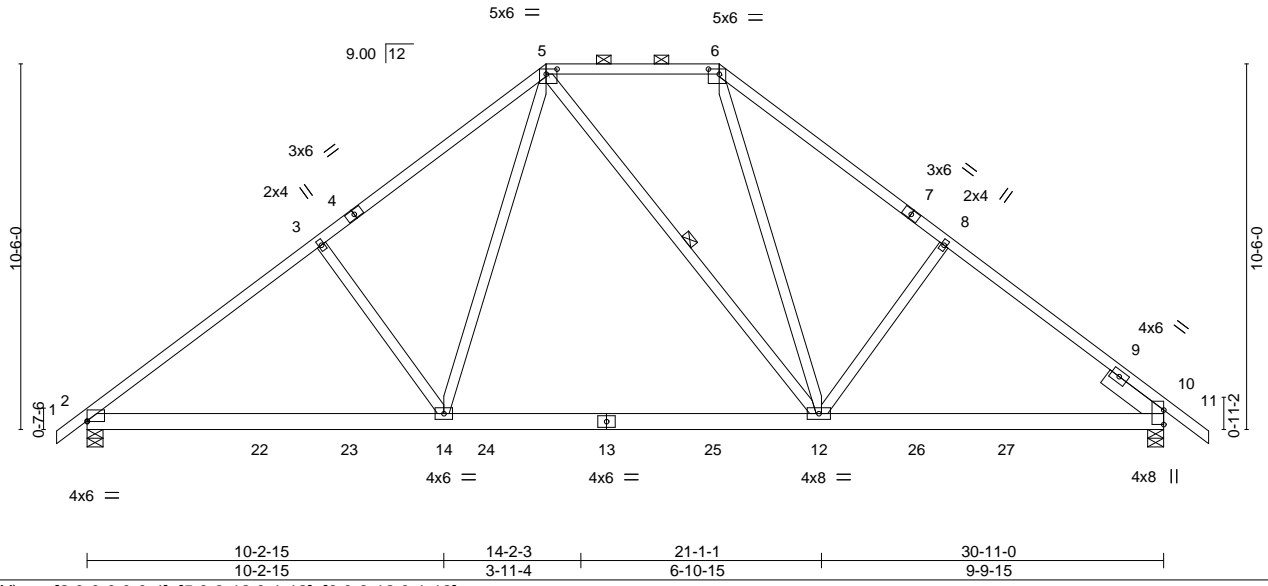
Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:51 2019 Page 1

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0-10-8	6-8-12	13-2-3	18-1-13	24-7-4	30-11-0	32-2-8
0-10-8	6-8-12	6-5-7	4-11-11	6-5-7	6-3-12	1-3-8

Scale = 1:66.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.57	Vert(LL) -0.16 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.46	Vert(CT) -0.26 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 14-17 >999 240	Weight: 204 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-5-15 max.): 5-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-12: 2x4 SP No.2	WEBS 1 Row at midpt 5-12
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 2=1288/0-5-8, 10=1315/0-5-8
 Max Horz 2=-355(LC 10)
 Max Uplift 2=-312(LC 12), 10=-321(LC 13)
 Max Grav 2=1319(LC 19), 10=1330(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1742/597, 3-5=-1561/658, 5-6=-1056/561, 6-8=-1483/639, 8-10=-1623/582
 BOT CHORD 2-14=-386/1518, 12-14=-134/1059, 10-12=-288/1240
 WEBS 3-14=-491/399, 5-14=-220/791, 6-12=-161/615, 8-12=-440/375

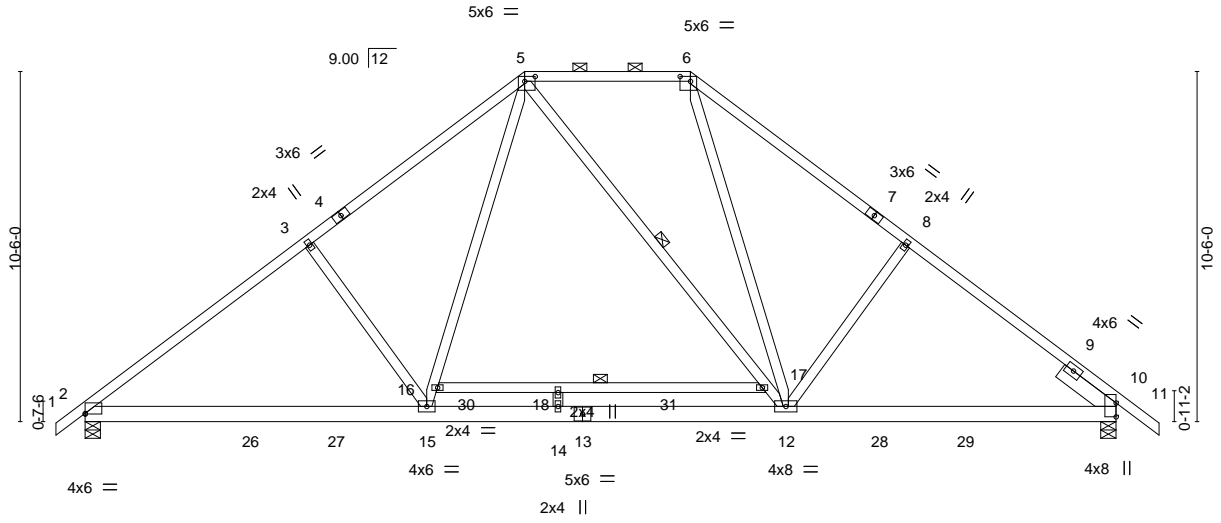
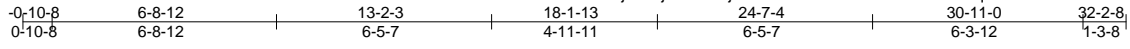
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=312, 10=321.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

Job 654049_130mph	Truss A34A	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223246
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Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:53 2019 Page 1



Scale = 1:69.1

Plate Offsets (X,Y)--	[2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12]
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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 0.58	Vert(LL)	-0.22 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.31 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.44	Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07 15-21	>999	240	Weight: 219 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-6-0 max.): 5-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-12,16-17: 2x4 SP No.2	WEBS 1 Row at midpt 5-12, 16-17
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 2=1288/0-5-8, 10=1315/0-5-8
 Max Horz 2=-355(LC 10)
 Max Uplift 2=-312(LC 12), 10=-321(LC 13)
 Max Grav 2=1314(LC 19), 10=1322(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1729/597, 3-5=-1548/659, 5-6=-1056/561, 6-8=-1464/639, 8-10=-1605/582
 BOT CHORD 2-15=-386/1507, 14-15=-124/1066, 12-14=-124/1066, 10-12=-288/1227
 WEBS 3-15=-491/399, 15-16=-224/753, 5-16=-221/785, 6-12=-161/637, 8-12=-440/375

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=312, 10=321.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-60, 5-6=-60, 6-11=-60, 19-22=-20



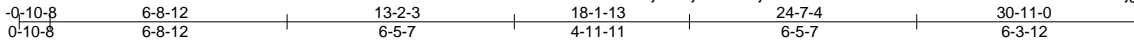
May 28, 2019

Job 654049_130mph	Truss A35	Truss Type Piggyback Base	Qty 5	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223247
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:54 2019 Page 1

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Scale = 1:65.4

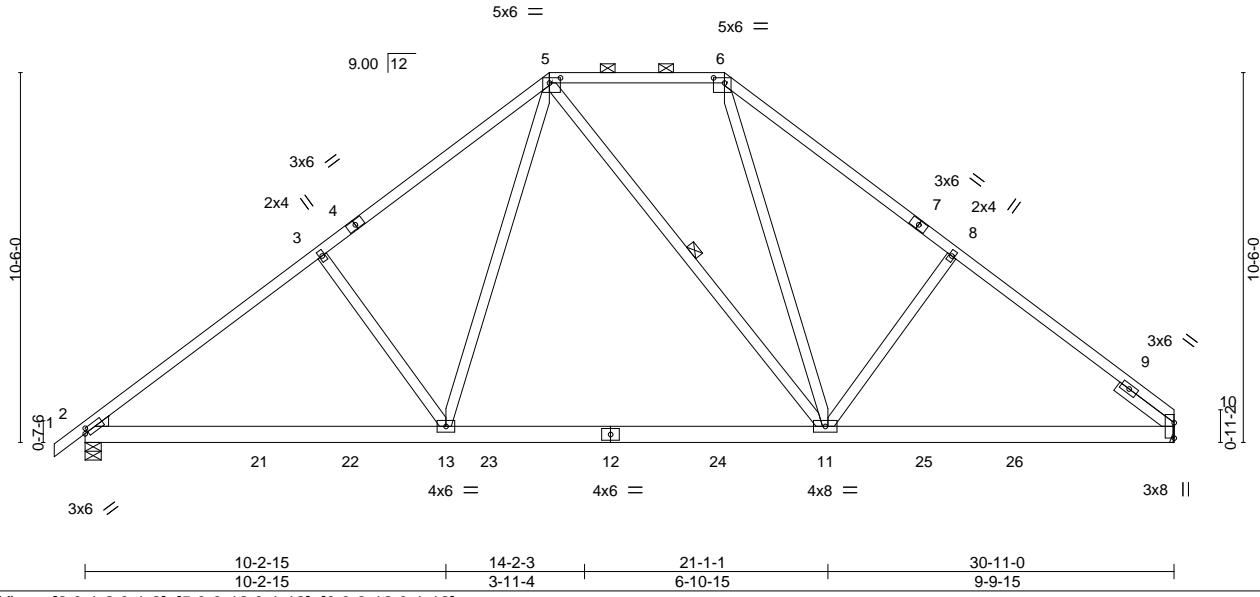


Plate Offsets (X, Y)--	[2:0-1-2,0-1-8], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.16 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.26 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.05 13-16	>999	240	Weight: 200 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-6-0 max.): 5-6.
WEBS 2x4 SP No.3 *Except* 5-11: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 5-11

WEDGE Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

REACTIONS. (lb/size) 2=1290/0-5-8, 10=1236/Mechanical
Max Horz 2=276(LC 9)
Max Uplift 2=-115(LC 12), 10=-97(LC 13)
Max Grav 2=1345(LC 19), 10=1281(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1749/599, 3-5=-1573/661, 5-6=-1056/562, 6-8=-1494/643, 8-10=-1629/586
BOT CHORD 2-13=-355/1497, 11-13=-93/1055, 10-11=-334/1247
WEBS 3-13=-491/368, 5-13=-188/772, 6-11=-164/613, 8-11=-442/345

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=115.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 654049_130mph	Truss A35A	Truss Type Piggyback Base	Qty 5	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223248
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Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:57 2019 Page 1
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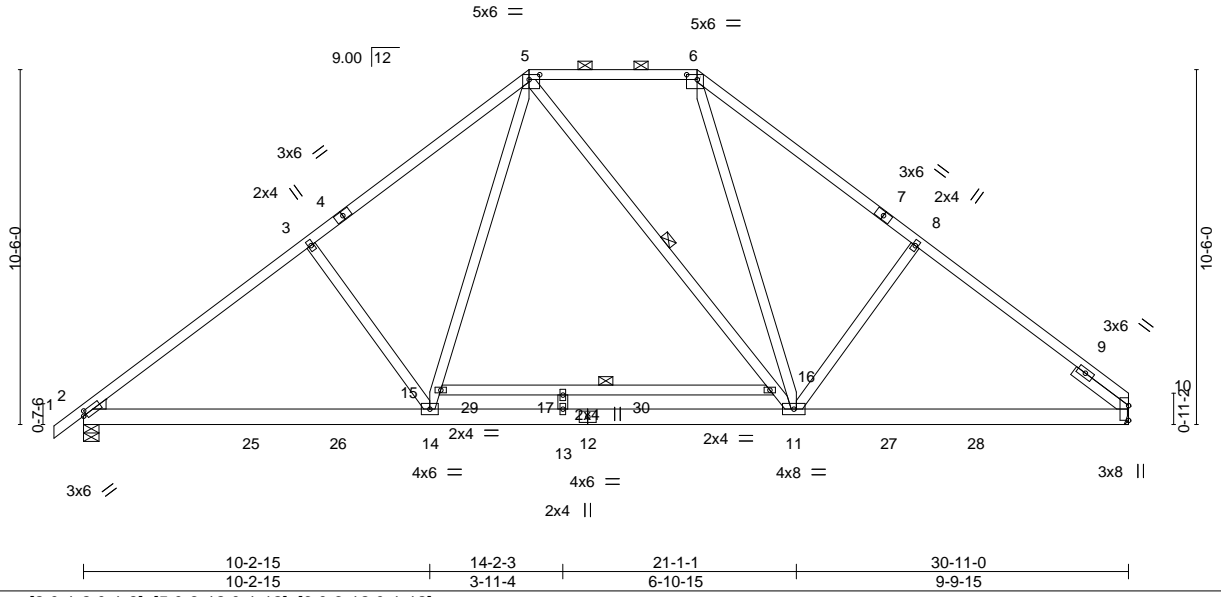
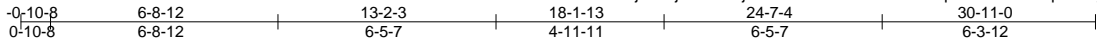


Plate Offsets (X,Y)--	[2:0-1-2,0-1-8], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12]
-----------------------	---

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 0.55	Vert(LL)	-0.19 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.29 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.45	Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.05 14-20	>999	240	Weight: 215 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-6-1 max.): 5-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-11,15-16: 2x4 SP No.2	WEBS 1 Row at midpt 5-11, 15-16

REACTIONS. (lb/size) 2=1290/0-5-8, 10=1236/Mechanical
 Max Horz 2=276(LC 9)
 Max Uplift 2=-115(LC 12), 10=-97(LC 13)
 Max Grav 2=1326(LC 19), 10=1257(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1711/600, 3-5=-1534/661, 5-6=-1056/563, 6-8=-1452/643, 8-10=-1593/586
 BOT CHORD 2-14=-356/1468, 13-14=-98/1043, 11-13=-98/1043, 10-11=-334/1212
 WEBS 3-14=-491/367, 14-15=-190/718, 5-15=-189/753, 6-11=-165/616, 8-11=-443/345

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=115.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-60, 5-6=-60, 6-10=-60, 18-21=-20



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



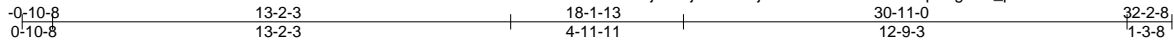
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss A36	Truss Type GABLE	Qty 2	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223249
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:59 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-7XicpEsgo6K_pd3Axi1xN80rhYO6n5DDIYmtWzC?bQ



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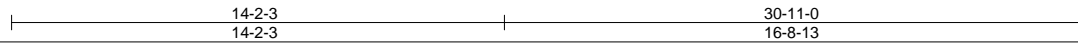
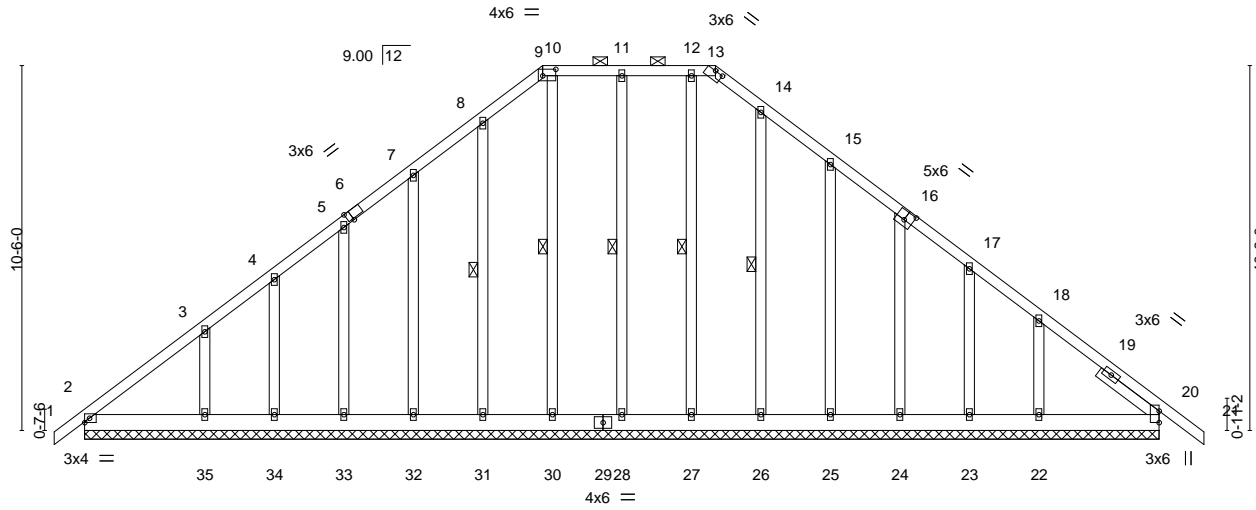


Plate Offsets (X,Y)--	[6:0-1-13,Edge], [9:0-0-0,0-1-12], [9:0-4-8,0-2-4], [10:0-1-12,0-0-0], [13:0-3-0,0-0-1], [16:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.00	21	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.00	21	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.01	20	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 263 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 9-13.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Right 2x4 SP No.3 2-1-9	WEBS 1 Row at midpt 11-28, 10-30, 8-31, 12-27, 14-26

REACTIONS. All bearings 30-11-0.
 (lb) - Max Horz 2=-353(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 28, 30, 31, 34, 27, 26, 23 except 32=-120(LC 12), 33=-121(LC 12), 35=-215(LC 12), 25=-141(LC 13), 24=-123(LC 13), 22=-251(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 20, 28, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23 except 2=251(LC 20), 35=320(LC 19), 22=312(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-347/265, 7-8=-212/250, 8-9=-276/301, 9-10=-241/273, 10-11=-241/273, 11-12=-241/273, 12-13=-241/273, 13-14=-265/291
 BOT CHORD 2-35=-188/295, 34-35=-188/295, 33-34=-188/295, 32-33=-188/295, 31-32=-188/295, 30-31=-188/295, 28-30=-188/295, 27-28=-188/295, 26-27=-188/295, 25-26=-188/295, 24-25=-188/295, 23-24=-182/290, 22-23=-182/290, 20-22=-182/290
 WEBS 3-35=-268/226, 18-22=-287/245

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 28, 30, 31, 34, 27, 26, 23 except (jt=lb) 32=120, 33=121, 35=215, 25=141, 24=123, 22=251.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 654049_130mph	Truss B01	Truss Type GABLE	Qty 3	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223250
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Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:00 2019 Page 1
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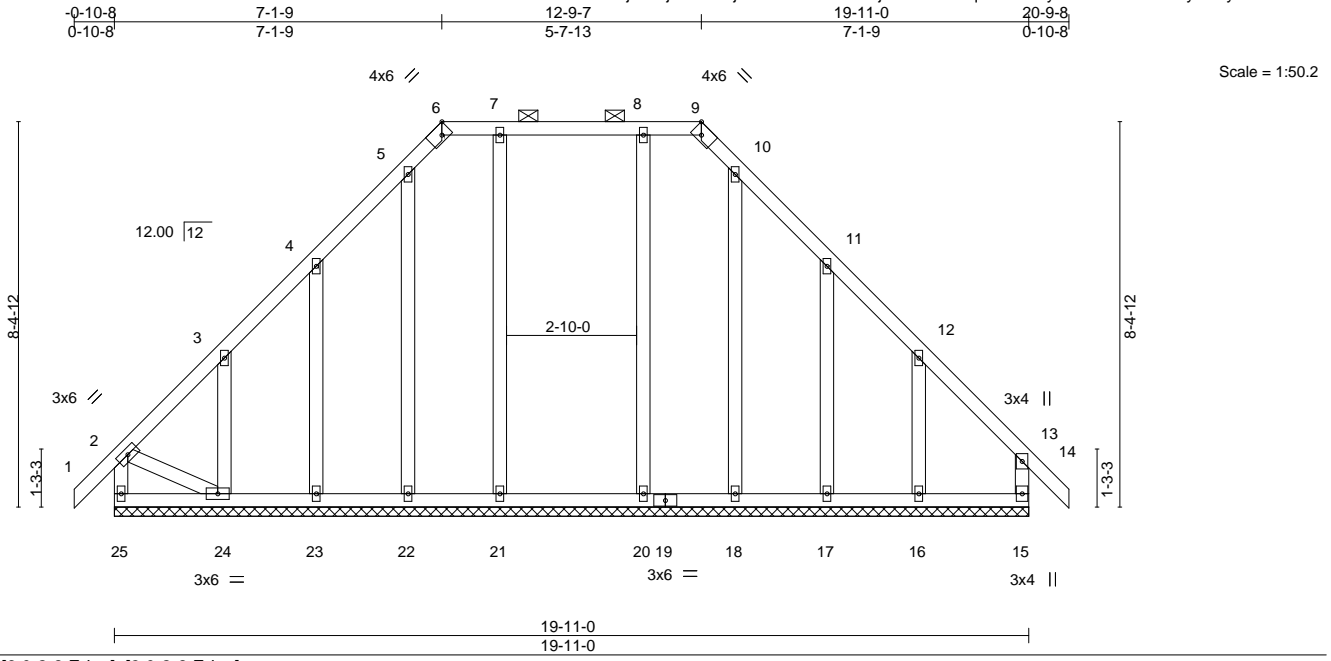


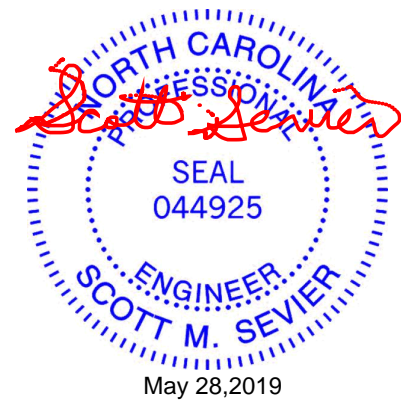
Plate Offsets (X, Y)--	6:0-2-8, Edge], [9:0-2-8, Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -0.00 14 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.00 14 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.00 15 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 147 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	
OTHERS 2-24: 2x4 SP No.3	
2x4 SP No.3	

REACTIONS. All bearings 19-11-0.
 (lb) - Max Horz 25=-321(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 21, 22, 20 except 25=-231(LC 8), 23=-189(LC 12), 24=-271(LC 12), 17=-170(LC 13), 16=-275(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 15, 22, 23, 18, 17, 16 except 25=315(LC 20), 21=265(LC 22), 24=293(LC 19), 20=263(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-25=-292/240, 2-3=-270/264, 4-5=-258/315, 5-6=-225/253, 6-7=-230/271, 7-8=-230/271, 8-9=-230/271, 9-10=-225/254, 10-11=-257/290
 BOT CHORD 24-25=-295/297
 WEBS 12-16=-267/248, 2-24=-247/266

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 21, 22, 20 except (jt=lb) 25=231, 23=189, 24=271, 17=170, 16=275.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

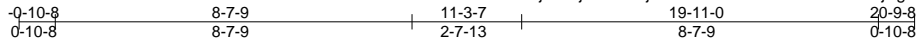


Job 654049_130mph	Truss B02	Truss Type HIP	Qty 3	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223251
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:02 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOff-X6NISGuY51Yg5olcr_kZ0mSNuSUJpFvGmQTqzC?bN



6x8 = 6x8 =

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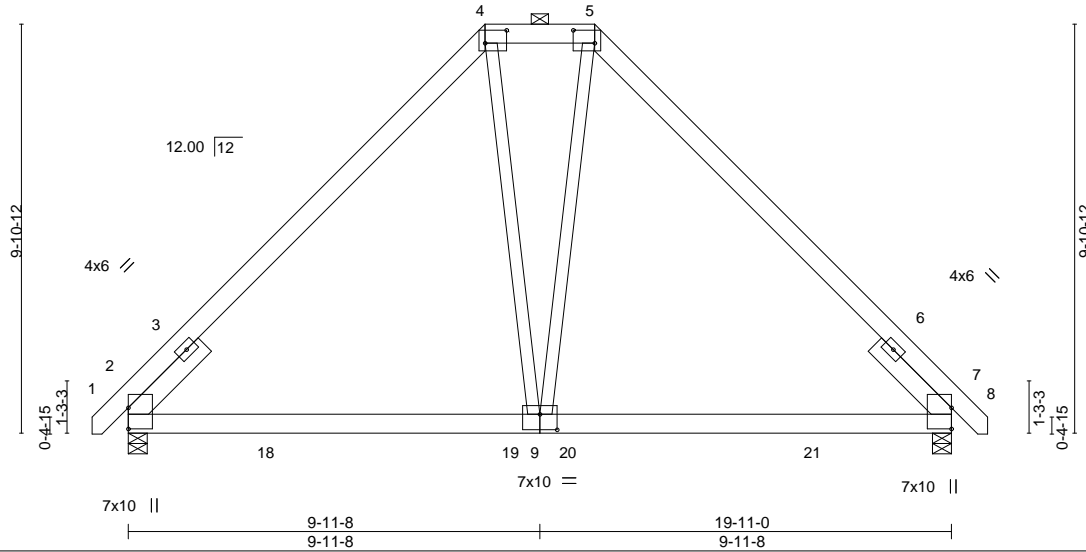


Plate Offsets (X,Y)-- [4:0-6-4,0-3-12], [5:0-6-4,0-3-12], [9:0-5-0,0-4-8]

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)	-0.08	9-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.13	9-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.06	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.13	9-12	>999	Weight: 156 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SP No.2 2-6-0, Right 2x6 SP No.2 2-6-0	

REACTIONS. (lb/size) 2=842/0-5-8, 7=842/0-5-8
 Max Horz 2=-316(LC 10)
 Max Uplift 2=-183(LC 12), 7=-183(LC 13)
 Max Grav 2=913(LC 2), 7=912(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-731/333, 4-5=-662/408, 5-7=-731/333
 BOT CHORD 2-9=-107/626, 7-9=-47/581
 WEBS 4-9=-165/425, 5-9=-165/425

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=183, 7=183.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss B03	Truss Type COMMON	Qty 13	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223252
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:03 2019 Page 1

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3x6 =

Scale = 1:66.5

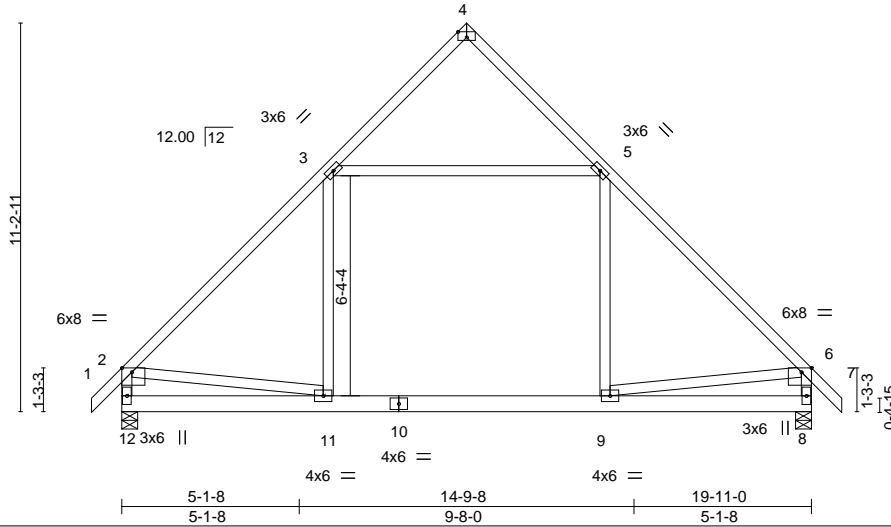


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [4:0-3-0,Edge], [6:0-3-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	0.21	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.21	11-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.01	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 142 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-12,6-8: 2x4 SP No.2	

REACTIONS.	(lb/size)
Max Horz	12=846/0-5-8, 8=846/0-5-8
Max Uplift	12=-189(LC 12), 8=-189(LC 13)
Max Grav	12=869(LC 20), 8=869(LC 19)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1022/315, 5-6=-1022/315, 2-12=-907/339, 6-8=-908/339
BOT CHORD	11-12=-564/646, 9-11=-79/714, 8-9=-280/339
WEBS	5-9=-74/323, 3-11=-74/323, 3-5=-673/404, 2-11=-233/702, 6-9=-244/711

- NOTES-** (7)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 12=189, 8=189.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

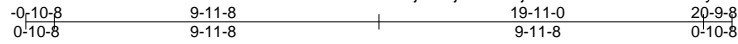
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 654049_130mph	Truss B04	Truss Type GABLE	Qty 6	Ply 1	H&H/Wilmington/ 137223253
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:04 2019 Page 1

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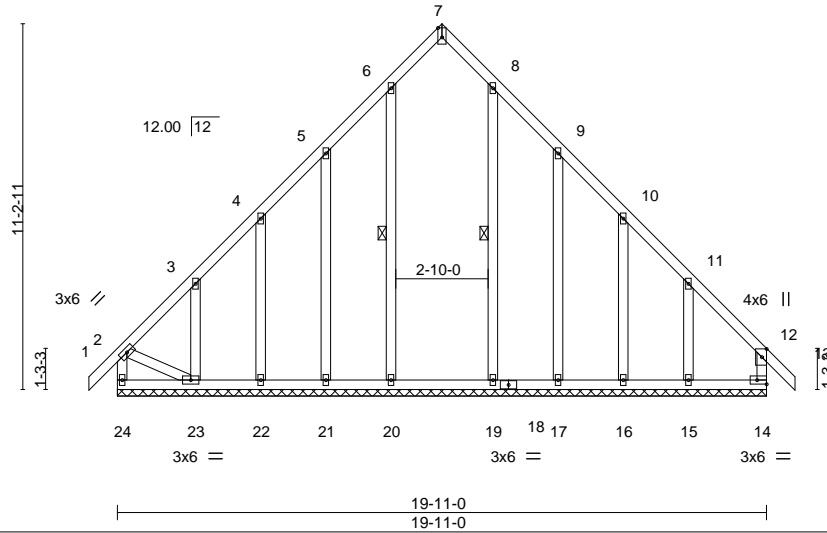


Plate Offsets (X,Y)-- [7:0-3-7,Edge], [12:0-3-0,0-1-12], [14:Edge,0-1-8]

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 0.33	Vert(LL)	-0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.01	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 154 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 6-20, 8-19
OTHERS 2-23: 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 19-11-0.
 (lb) - Max Horz 24=-413(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 20, 16 except 24=-206(LC 10), 21=-211(LC 12), 22=-147(LC 12), 23=-366(LC 12), 17=-254(LC 13), 15=-453(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 21, 22, 19, 17, 16 except 24=445(LC 12), 14=420(LC 13), 20=311(LC 19), 23=290(LC 19), 15=292(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-24=-429/235, 2-3=-461/285, 3-4=-301/221, 11-12=-473/348, 12-14=-306/224
 BOT CHORD 23-24=-386/388, 22-23=-299/377, 21-22=-299/377, 20-21=-299/377, 19-20=-299/377,
 17-19=-299/377, 16-17=-299/377, 15-16=-299/377, 14-15=-299/377
 WEBS 5-21=-264/245, 9-17=-270/264, 11-15=-332/347, 2-23=-320/443

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 20, 16 except (jt=lb) 24=206, 21=211, 22=147, 23=366, 17=254, 15=453.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
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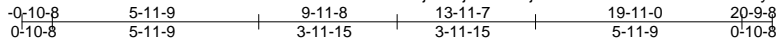
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss B05	Truss Type COMMON	Qty 2	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223254
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:05 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-xh3u4HwQNY57XYWKIzYRBeO_a6V6WL35bE?449zC?bK



3x6 =

Scale = 1:66.5

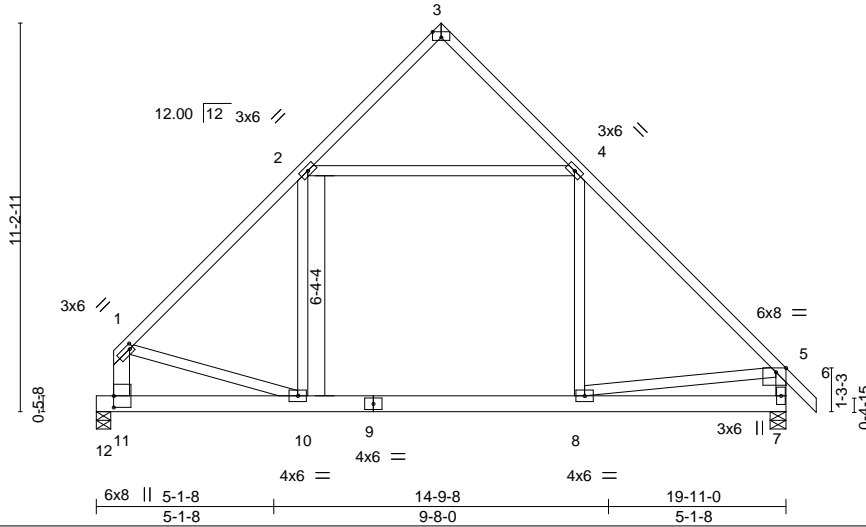


Plate Offsets (X,Y)-- [1:0-1-4,0-1-8], [3:0-3-0,Edge], [5:0-3-8,Edge], [11:0-4-0,0-0]

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 0.43	Vert(LL)	0.20	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.21	10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 141 lb	FT = 20%

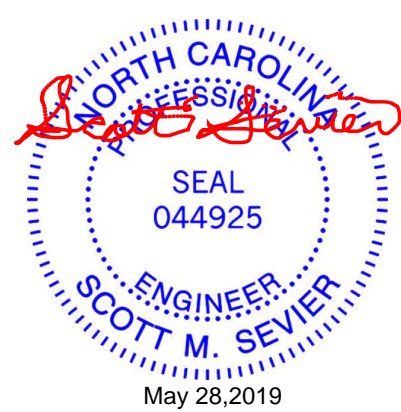
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
1-11: 2x6 SP No.2, 5-7: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing.

REACTIONS. (lb/size) 12=750/0-5-0, 7=845/0-5-8
Max Horz 12=-408(LC 8)
Max Uplift 12=-167(LC 13), 7=-188(LC 13)
Max Grav 12=813(LC 20), 7=868(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1004/317, 4-5=-1019/306, 1-11=-906/279, 5-7=-906/336
BOT CHORD 11-12=-385/408, 10-11=-440/620, 8-10=-72/713, 7-8=-278/340
WEBS 4-8=-72/320, 2-10=-74/328, 2-4=-668/400, 1-10=-229/592, 5-8=-237/707

- NOTES-** (7)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 12=167, 7=188.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

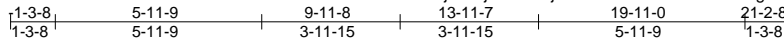


Job 654049_130mph	Truss B23	Truss Type COMMON	Qty 2	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223255
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:08 2019 Page 1

ID: XOjtQcFjQu8X?XjGN5R0bmzVOFF-MGI0iJzJgtTiO0Fvz558pH0UJJWYjikXHCdkhUzC?bH



3x6 =

Scale = 1:66.5

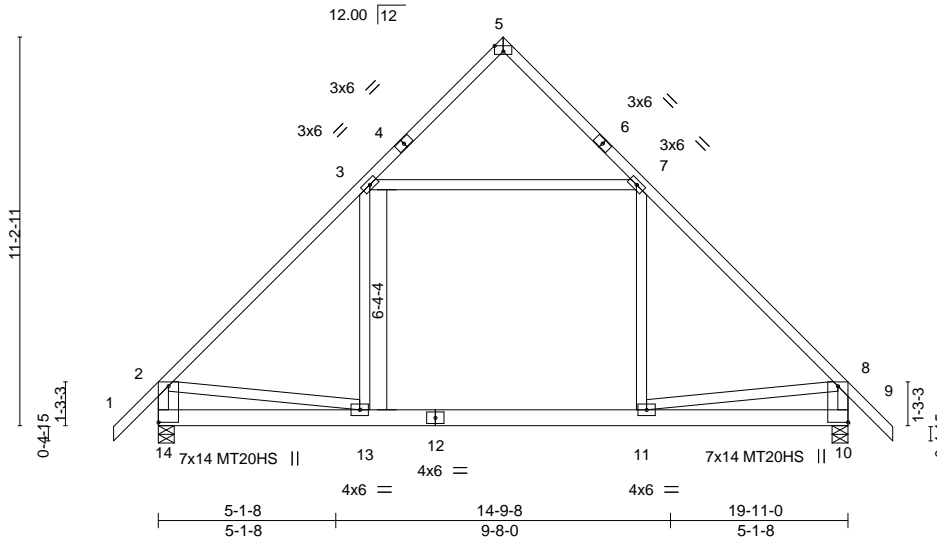


Plate Offsets (X,Y)--	[5:0-3-0,Edge], [10:Edge,0-3-8], [10:0-0-0,0-1-12], [14:0-0-0,0-1-12], [14:Edge,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	0.21	13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.21	13-14	>999	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.01	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 144 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-3-13 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-14,8-10: 2x4 SP No.2	

REACTIONS.	(lb/size) 14=871/0-5-8, 10=871/0-5-8
	Max Horz 14=-423(LC 10)
	Max Uplift 14=-203(LC 12), 10=-203(LC 13)
	Max Grav 14=894(LC 19), 10=894(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1017/312, 7-8=-1017/312, 2-14=-920/368, 8-10=-921/368
BOT CHORD	13-14=-552/640, 11-13=-67/718, 10-11=-244/362
WEBS	7-11=-73/320, 3-13=-74/320, 3-7=-671/398, 2-13=-233/711, 8-11=-244/720

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=203, 10=203.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY

 A MiTek Affiliate

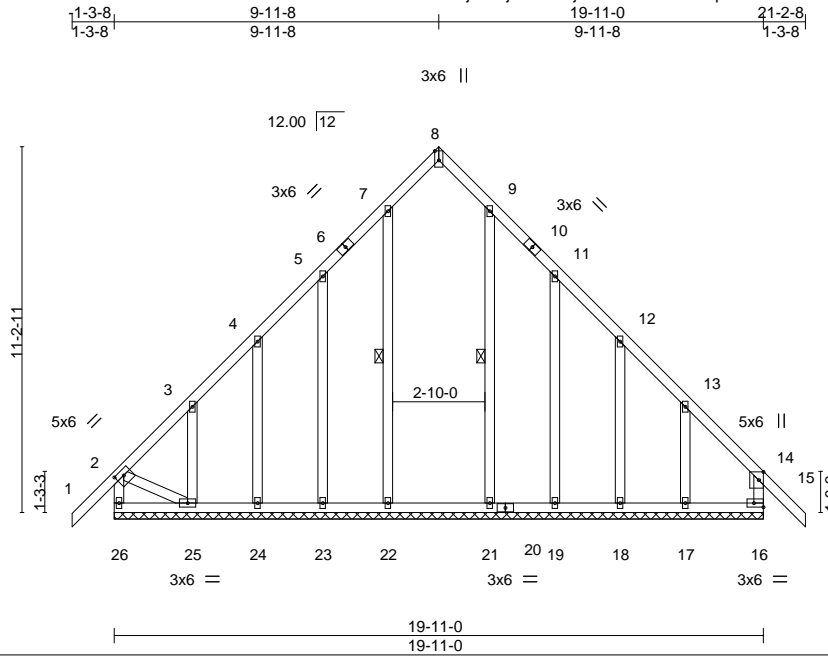
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss B24	Truss Type GABLE	Qty 1	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223256
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:09 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-qSIOWfzxRAbZ0Aq5XpcNLUZhFjuRSHghWszlDwzC7bG



Scale = 1:70.7

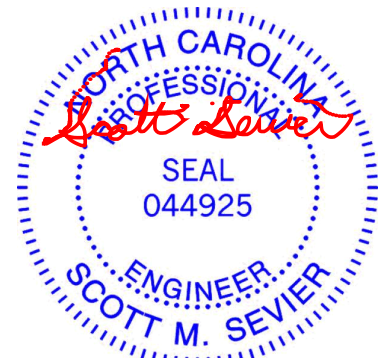
Plate Offsets (X,Y)--	[2:0-3-0,0-1-15], [8:0-3-7,Edge], [14:0-3-0,0-1-12], [16:Edge,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.01 15 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.02 15 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.01 16 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 156 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2 *Except*	6-0-0 oc bracing: 25-26
OTHERS 2x4 SP No.3	9-9-7 oc bracing: 16-17.
	WEBS 1 Row at midpt 7-22, 9-21

REACTIONS. All bearings 19-11-0.
 (lb) - Max Horz 26=-427(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 22, 18 except 26=-185(LC 10), 23=-211(LC 12), 24=-150(LC 12), 25=-353(LC 12), 19=-253(LC 13), 17=-440(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 23, 24, 21, 19, 18 except 26=421(LC 12), 16=397(LC 13), 22=315(LC 19), 25=277(LC 10), 17=281(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-26=-404/250, 2-3=-455/280, 3-4=-303/222, 13-14=-467/353, 14-16=-286/235
 BOT CHORD 25-26=-392/388, 24-25=-316/395, 23-24=-316/395, 22-23=-316/395, 21-22=-316/395, 19-21=-316/395, 18-19=-316/395, 17-18=-316/395, 16-17=-316/395
 WEBS 5-23=-263/243, 11-19=-267/263, 13-17=-340/333, 2-25=-306/437

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 22, 18 except (jt=lb) 26=185, 23=211, 24=150, 25=353, 19=253, 17=440.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



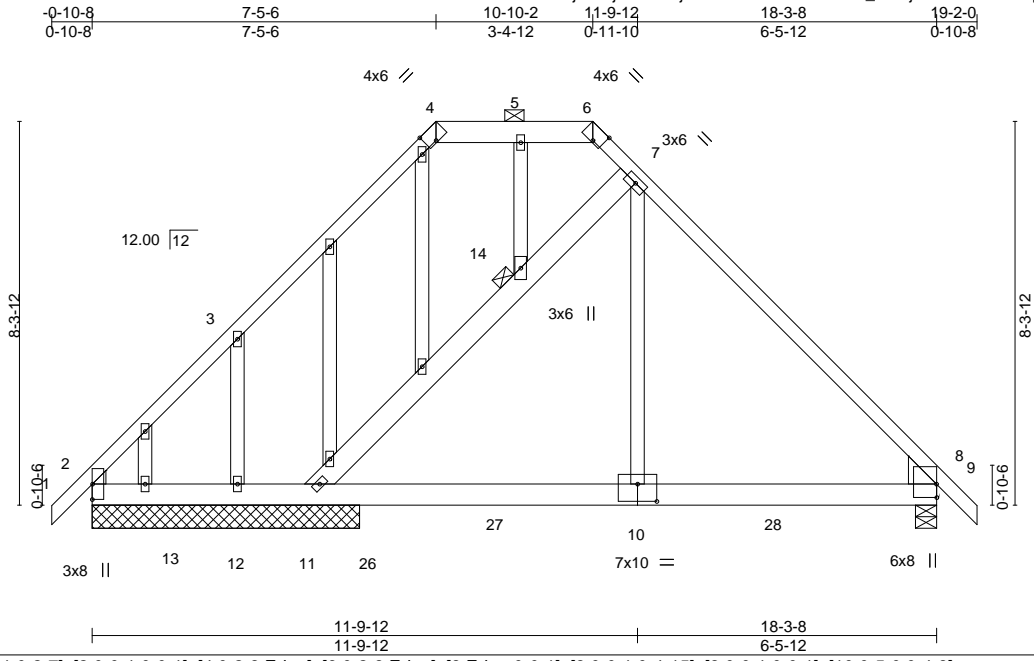
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss C01	Truss Type GABLE	Qty 3	Ply 1	H&H/Wilmington/ 137223257
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:10 2019 Page 1

ID: X0jtQcFjQu8X?XjGN5R0bmzVOFF-Iesn7?_ZCUjQdJPH4W8cui5po7E1BmXqWirmNzC?bF



Scale = 1:49.9

Plate Offsets (X, Y)--	[2:0-0-1,0-2-7], [2:0-0-1,0-0-1], [4:0-2-8,Edge], [6:0-2-8,Edge], [8:Edge,0-0-1], [8:0-0-1,0-4-15], [8:0-0-1,0-0-1], [10:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(LL) 0.05 10-25 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.17	Vert(CT) 0.05 10-25 >999 180		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Horz(CT) 0.02 8 n/a n/a		
				Weight: 147 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.2 *Except* 7-10: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 14
OTHERS 2x4 SP No.3	
WEDGE Left: 2x4 SP No.2, Right: 2x8 SP DSS	

REACTIONS. All bearings 5-9-8 except (jt=length) 8=0-5-8.
 (lb) - Max Horz 2=-278(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 8 except 12=-345(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 13 except 2=611(LC 23),
 11=622(LC 20), 12=357(LC 19), 8=820(LC 1), 2=588(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-537/0, 3-4=-601/96, 4-5=-344/133, 5-6=-343/132, 6-7=-441/161, 7-8=-850/152
 BOT CHORD 2-13=-116/487, 12-13=-116/487, 11-12=-116/487, 10-11=0/582, 8-10=0/586
 WEBS 11-14=-535/278, 7-14=-538/292, 7-10=-28/348, 3-12=-511/340

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 8 except (jt=lb) 12=345.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

TRENCO ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	I37223257
654049_130mph	C01	GABLE	3	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:11 2019 Page 2
 ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-mrQ9LL?BzorHFT_UeEfrQve_YWaGwDn_zASPIpzC?bE

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-75(F=-15), 4-6=-75(F=-15), 6-9=-60, 20-26=-35(F=-15), 23-26=-20, 7-11=-45(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



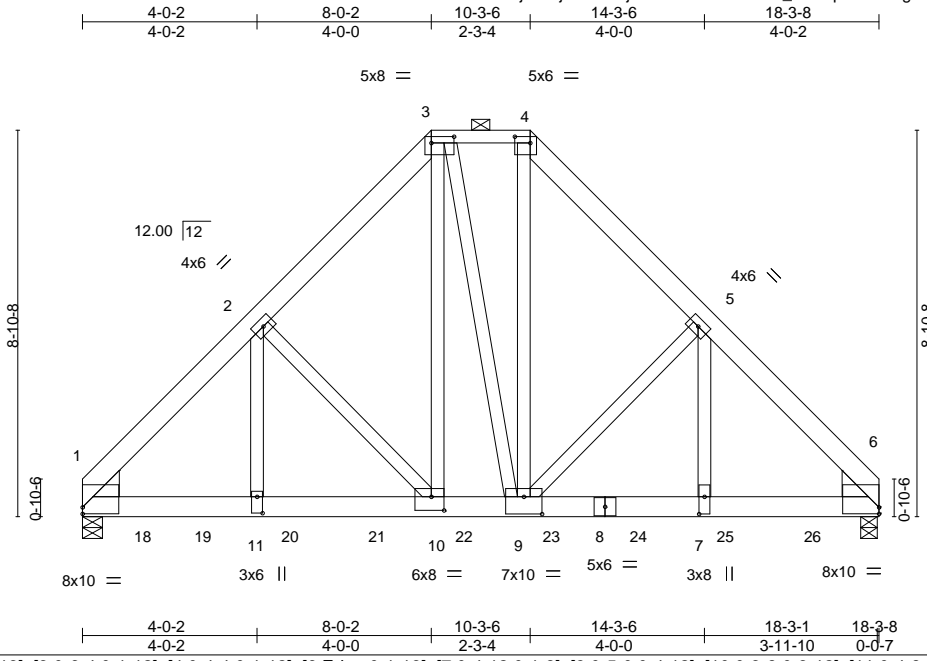
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss C02	Truss Type Hip Girder	Qty 3	Ply 2	H&H/Wilmington/ Job Reference (optional)	137223258
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:12 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOfF-E1_XYh0pk5z8tdZgCx4A4z7BE8wnMfcN7CpByqFzC?bD



Scale = 1:52.9

Plate Offsets (X,Y)--	[1:0-0,0-1-13], [3:0-6-4,0-1-12], [4:0-4-4,0-1-12], [6:Edge,0-1-13], [7:0-4-12,0-1-8], [9:0-5-0,0-4-12], [10:0-3-8,0-3-12], [11:0-4-8,0-1-8]
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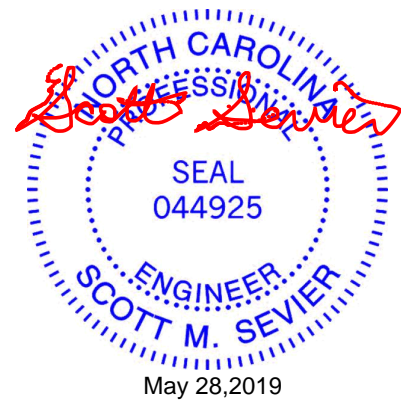
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.07 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.13 10-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.40	Horz(CT)	0.04 6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.07 10-11	>999	240	Weight: 339 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 3-4.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE Left: 2x8 SP No.2, Right: 2x8 SP No.2	

REACTIONS. (lb/size) 1=6417/0-5-8, 6=5992/0-4-9
 Max Horz 1=-273(LC 23)
 Max Uplift 1=-1525(LC 8), 6=-1424(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-6803/1643, 2-3=-4889/1301, 3-4=-3464/998, 4-5=-4951/1320, 5-6=-6757/1630
 BOT CHORD 1-11=-1215/4706, 10-11=-1215/4706, 9-10=-820/3403, 7-9=-1072/4667, 6-7=-1072/4667
 WEBS 2-11=-565/2557, 2-10=-1963/705, 3-10=-841/3072, 3-9=-176/338, 4-9=-879/3268,
 5-9=-1824/671, 5-7=-530/2367

- NOTES-** (12)
- 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 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1525, 6=1424.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1232 lb down and 301 lb up at 0-9-8, 1230 lb down and 303 lb up at 2-9-8, 1230 lb down and 303 lb up at 4-9-8, 1230 lb down and 303 lb up at 6-9-8, 1216 lb down and 303 lb up at 8-9-8, 1216 lb down and 303 lb up at 10-9-8, 1216 lb down and 303 lb up at 12-9-8, and 1216 lb down and 303 lb up at 14-9-8, and 1216 lb down and 303 lb up at 16-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



May 28, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	I37223258
654049_130mph	C02	Hip Girder	3	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:12 2019 Page 2

ID:XOjtQcFjQu8X?XjGN5R0bmzVOF-E1_XYh0pk5z8tdZgCx4z7BE8wnMfcN7CpByqFzC?bD

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 12-15=-20

Concentrated Loads (lb)

Vert: 18=-1218(B) 19=-1216(B) 20=-1216(B) 21=-1216(B) 22=-1216(B) 23=-1216(B) 24=-1216(B) 25=-1216(B) 26=-1216(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



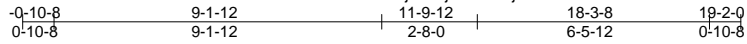
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss C03	Truss Type GABLE	Qty 5	Ply 1	H&H/Wilmington/ 137223259
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:13 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-iDYvm00SVP5_Un8smfhJWKjJ5KHKO7GGRTxVMizC?bC



4x6 ||

Scale: 3/16"=1'

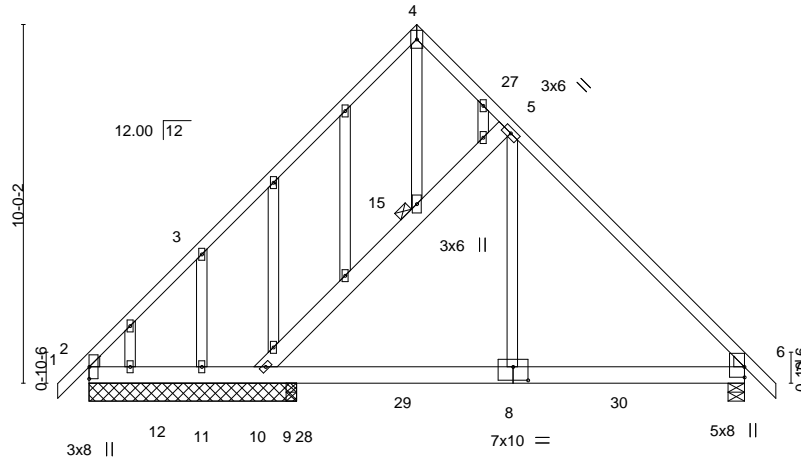


Plate Offsets (X, Y)--	[2:0-0-1,0-0-1], [2:0-0-1,0-2-7], [6:Edge,0-0-1], [6:0-0-1,0-2-7], [6:0-0-1,0-0-1], [8:0-5-0,0-4-8]
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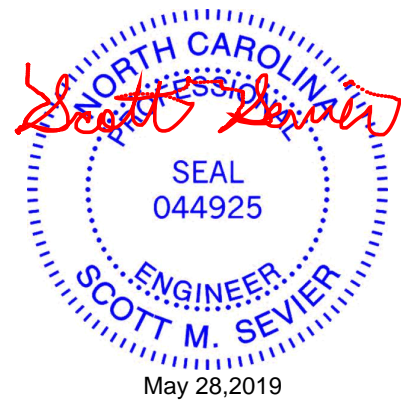
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	0.05	8-26	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.03	8-26	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.17	Horz(CT)	0.02	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 149 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x6 SP No.2 *Except* 5-8: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 15
OTHERS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.2, Right: 2x4 SP SS	

REACTIONS. All bearings 5-9-8 except (jt=length) 6=0-5-8, 9=0-3-8.
 (lb) - Max Horz 2=334(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 9 except 11=-426(LC 12), 12=-171(LC 20)
 Max Grav All reactions 250 lb or less at joint(s) 12 except 2=583(LC 21), 11=717(LC 19), 6=812(LC 20), 9=425(LC 20), 2=503(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-520/87, 3-4=-511/34, 4-5=-434/146, 5-6=-866/88
 BOT CHORD 2-12=-75/459, 11-12=-75/459, 10-11=-75/459, 9-10=0/576, 8-9=0/576, 6-8=0/581
 WEBS 10-15=-569/334, 5-15=-582/342, 5-8=-14/320, 3-11=-666/442

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9 except (jt=lb) 11=426, 12=171.
 - 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.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	I37223259
654049_130mph	C03	GABLE	5	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:14 2019 Page 2
 ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-BQ6HzM14GjDr6xi2JMCY2YGUrkdZ7aWQf7h3v8zC?bB

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-75(F=-15), 4-27=-75(F=-15), 7-27=-60, 21-28=-35(F=-15), 24-28=-20, 5-10=-45(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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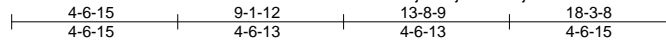
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss C04	Truss Type Common Girder	Qty 5	Ply 2	H&H/Wilmington/ Job Reference (optional)	137223260
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:15 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-fcggAi2i10Lik5HFt3jnblokg8pMsu0ZunQcRazC?bA



5x6 ||

Scale: 3/16"=1'

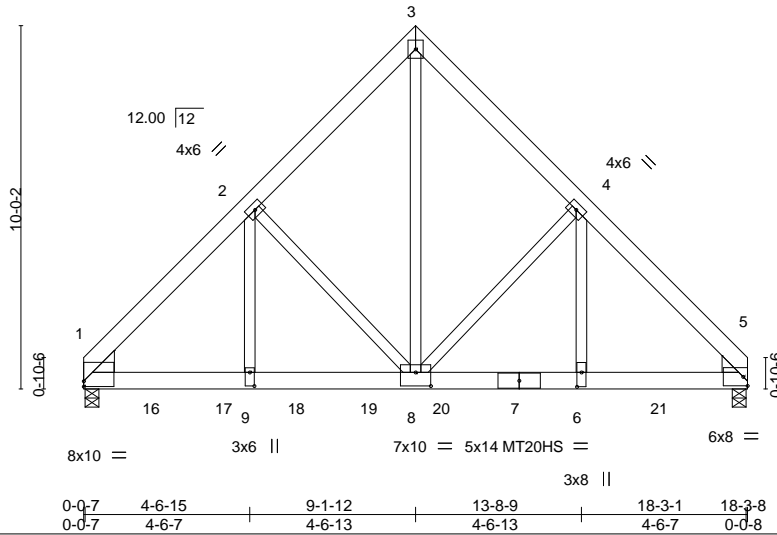


Plate Offsets (X,Y)--	[1:0-0-0,0-1-13], [6:0-4-12,0-1-8], [8:0-5-0,0-4-8], [9:0-4-8,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.07	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.14	6-8	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.73	Horz(CT)	0.04	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.07	6-8	>999	240		Weight: 306 lb FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
1-7: 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x8 SP No.2, Right: 2x6 SP No.2

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

REACTIONS. (lb/size) 1=5766/0-4-9, 5=6646/0-4-9
Max Horz 1=-305(LC 23)
Max Uplift 1=-1379(LC 9), 5=-1588(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6542/1617, 2-3=-4507/1258, 3-4=-4505/1258, 4-5=-6551/1618
BOT CHORD 1-9=-1180/4523, 8-9=-1180/4523, 6-8=-1053/4525, 5-6=-1053/4525
WEBS 3-8=-1577/5918, 4-8=-2002/734, 4-6=-607/2706, 2-8=-1998/732, 2-9=-603/2730

- NOTES-** (11)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1379, 5=1588.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1230 lb down and 303 lb up at 1-10-4, 1230 lb down and 303 lb up at 3-10-4, 1230 lb down and 303 lb up at 5-10-4, 1230 lb down and 303 lb up at 7-10-4, 1216 lb down and 303 lb up at 9-10-4, 1216 lb down and 303 lb up at 11-10-4, 1216 lb down and 303 lb up at 13-10-4, and 1216 lb down and 303 lb up at 15-10-4, and 1222 lb down and 297 lb up at 17-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss C04	Truss Type Common Girder	Qty 5	Ply 2	H&H/Wilmington/ Job Reference (optional)	I37223260
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:15 2019 Page 2
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-fcggAi2i10Lik5HFt3jnblokg8pMsu0ZunQcRazC?bA

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 7=-1216(B) 6=-1216(B) 15=-1222(B) 16=-1216(B) 17=-1216(B) 18=-1216(B) 19=-1216(B) 20=-1216(B) 21=-1216(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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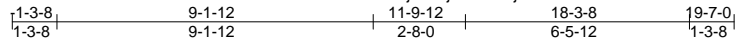


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223261
654049_130mph	C05	GABLE	2	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:16 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-7oD2O23KoKTZLEsRRnF07zLpsXC6bQlJ7RA9z0zC?b9



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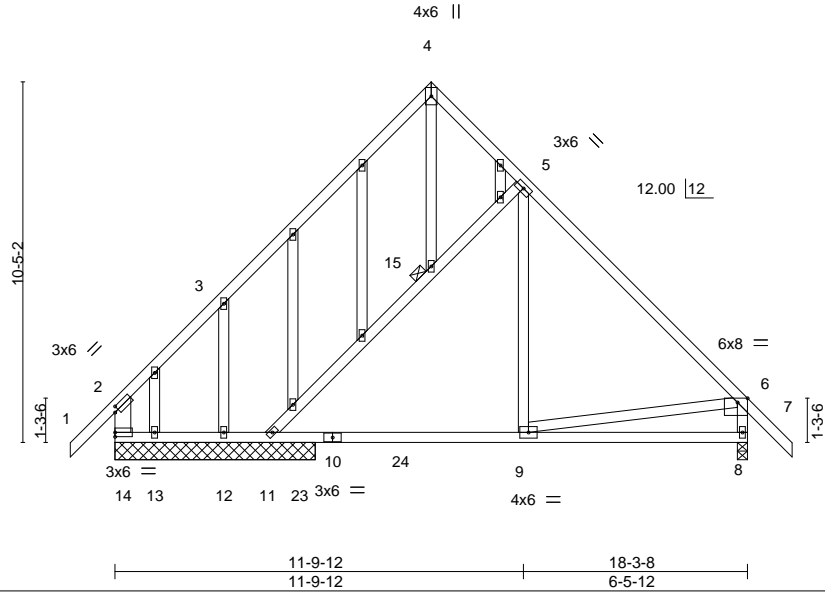


Plate Offsets (X,Y)--	[2:0-1-8,0-1-8], [6:0-3-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.07	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.12	9-11	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.40	Horz(CT)	-0.01	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.01	9	>999		
								Weight: 144 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except*	JOINTS 1 Brace at Jt(s): 15
5-9,6-9: 2x4 SP No.3, 2-14: 2x6 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 5-9-8 except (jt=length) 8=0-3-8.
 (lb) - Max Horz 8=-403(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 11, 8 except 12=-433(LC 12), 13=-387(LC 21)
 Max Grav All reactions 250 lb or less at joint(s) except 14=912(LC 21), 11=681(LC 20), 8=860(LC 1), 12=438(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 4-5=-487/138, 5-6=-845/49, 2-3=-598/63, 3-4=-533/35, 6-8=-802/168, 2-14=-476/0
 BOT CHORD 13-14=-113/433, 12-13=-113/433, 11-12=-113/433, 9-11=-53/669, 8-9=-418/535
 WEBS 11-15=-517/304, 5-15=-536/302, 5-9=0/251, 6-9=-34/516, 3-12=-669/468

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 8 except (jt=lb) 12=433, 13=387.
 - 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.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	I37223261
654049_130mph	C05	GABLE	2	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:17 2019 Page 2
 ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-b?nQbO4yZebQzORd?UmFgAu_cxYlKtYsM5vjVTzC?b8

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 4-5=-76(F=-16), 5-6=-60, 6-7=-60, 1-2=-60, 2-4=-76(F=-16), 14-23=-36(F=-16), 8-23=-20, 5-11=-46(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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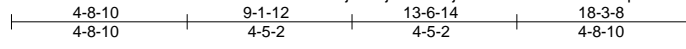
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss C06	Truss Type Common Girder	Qty 1	Ply 2	H&H/Wilmington/ Job Reference (optional)	137223262
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:18 2019 Page 1

ID: XOjtQcFjQu8X?XjGN5R0bmzVOFF-3BLopk4aKxkHbY0qYCHUDOQCuLqz3Gn0alfG2vzC?b7



4x6 ||

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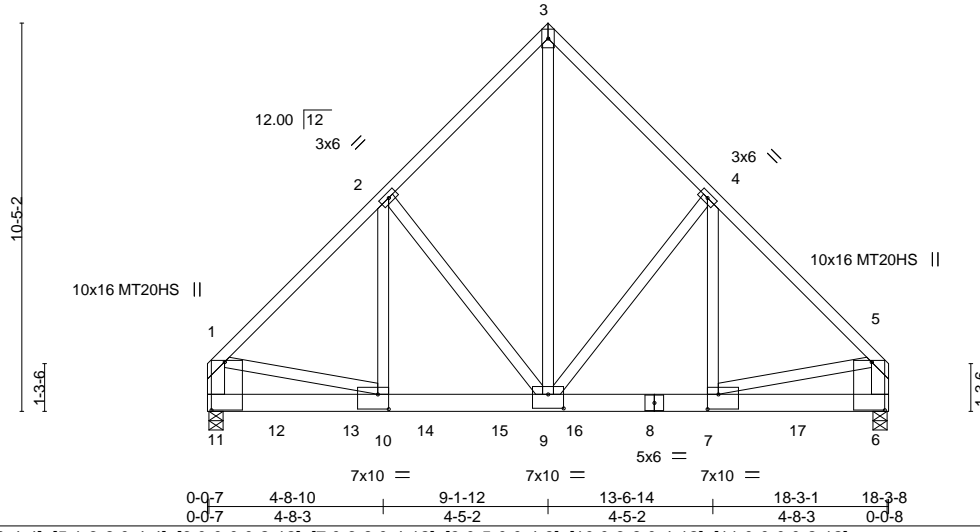


Plate Offsets (X,Y)--	[1:1-3-8,0-4-4], [5:1-3-8,0-4-4], [6:0-0-0,0-2-12], [7:0-3-8,0-4-12], [9:0-5-0,0-4-8], [10:0-3-8,0-4-12], [11:0-0-0,0-2-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.07	7-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.13	7-9	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.02	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.07	7-9	>999		
								Weight: 297 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-11,5-6: 2x6 SP No.2	

REACTIONS.	(lb/size)
11=5742/0-4-9, 6=6628/0-4-9	
Max Horz 11=-350(LC 23)	
Max Uplift 11=-1359(LC 9), 6=-1564(LC 8)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-5572/1373, 2-3=-4100/1159, 3-4=-4100/1159, 4-5=-5545/1366, 1-11=-4782/1163, 5-6=-4790/1166
BOT CHORD	10-11=-480/844, 9-10=-994/3871, 7-9=-862/3851, 6-7=-174/512
WEBS	3-9=-1461/5394, 4-9=-1650/641, 4-7=-480/2070, 2-9=-1699/648, 2-10=-491/2188, 1-10=-729/3315, 5-7=-761/3433

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=1359, 6=1564.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1246 lb down and 297 lb up at 1-10-4, 1246 lb down and 297 lb up at 3-10-4, 1246 lb down and 297 lb up at 5-10-4, 1246 lb down and 297 lb up at 7-10-4, 1215 lb down and 297 lb up at 9-10-4, 1215 lb down and 297 lb up at 11-10-4, 1215 lb down and 297 lb up at 13-10-4, and 1215 lb down and 297 lb up at 15-10-4, and 1223 lb down and 290 lb up at 18-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



May 28, 2019

LOAD CASE(S) Standard
Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	I37223262
654049_130mph	C06	Common Girder	1	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:18 2019 Page 2

ID:XOjtQcFJQu8X?XjGN5R0bmzVOFF-3BLopk4aKxkHbY0qYCHUDOQCuLqz3Gn0alfG2vzC?b7

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 6-11=-20

Concentrated Loads (lb)

Vert: 8=-1215(B) 7=-1215(B) 6=-1223(B) 12=-1215(B) 13=-1215(B) 14=-1215(B) 15=-1215(B) 16=-1215(B) 17=-1215(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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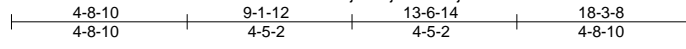
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss C07	Truss Type Common Girder	Qty 1	Ply 2	H&H/Wilmington/ Job Reference (optional)	137223263
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:20 2019 Page 1

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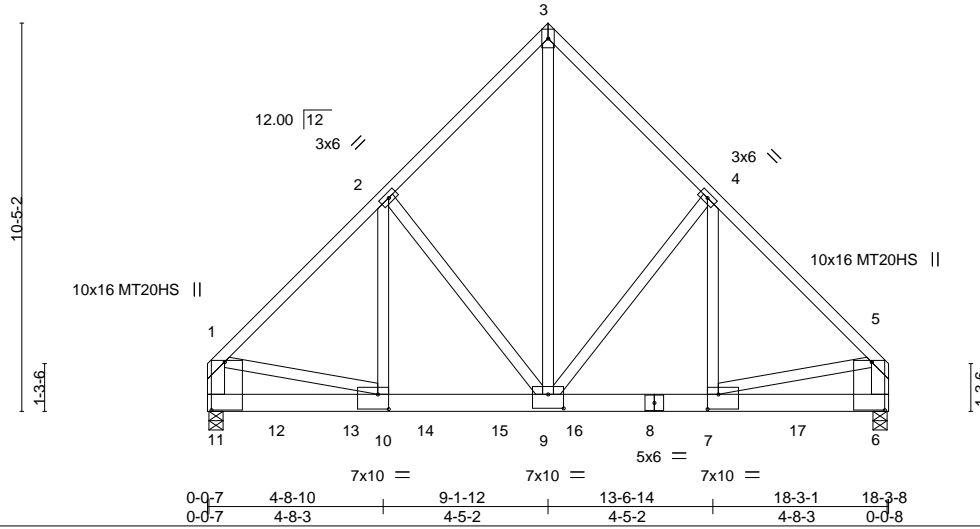


Plate Offsets (X,Y)--	[1:1-3-8,0-4-4], [5:1-3-8,0-4-4], [6:0-0-0,0-2-12], [7:0-3-8,0-4-12], [9:0-5-0,0-4-8], [10:0-3-8,0-4-12], [11:0-0-0,0-2-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	Lumber DOL 1.15	Vert(LL) -0.07 7-9 >999 360	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.66	Vert(CT) -0.13 7-9 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Horz(CT) 0.02 6 n/a n/a		
			Wind(LL) 0.05 7-9 >999 240	Weight: 297 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-11,5-6: 2x6 SP No.2	

REACTIONS.	(lb/size)
11=5745/0-4-9, 6=6632/0-4-9	
Max Horz 11=350(LC 5)	
Max Uplift 11=611(LC 9), 6=685(LC 8)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-5576/652, 2-3=-4102/633, 3-4=-4102/633, 4-5=-5548/650, 1-11=-4785/551, 5-6=-4793/552
BOT CHORD	10-11=-396/849, 9-10=-485/3873, 7-9=-357/3854, 6-7=-110/512
WEBS	3-9=-720/5398, 4-9=-1651/428, 4-7=-176/2072, 2-9=-1689/431, 2-10=-180/2172, 1-10=-293/3317, 5-7=-307/3436

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=611, 6=685.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1233 lb down and 117 lb up at 1-10-4, 1233 lb down and 117 lb up at 3-10-4, 1233 lb down and 117 lb up at 5-10-4, 1233 lb down and 117 lb up at 7-10-4, 1216 lb down and 117 lb up at 9-10-4, 1216 lb down and 117 lb up at 11-10-4, 1216 lb down and 117 lb up at 13-10-4, and 1216 lb down and 117 lb up at 15-10-4, and 1224 lb down and 109 lb up at 18-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



LOAD CASE(S) Standard
Continued on page 2

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Job 654049_130mph	Truss C07	Truss Type Common Girder	Qty 1	Ply 2	H&H/Wilmington/ Job Reference (optional)	I37223263
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:20 2019 Page 2
ID:XOjtQcFjQu8X?XjGN5R0bmzVOff-?aTZEQ6rrZ_?qsACgdJylpWYN9WTXAFI238N6ozC?b5

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 6-11=-20

Concentrated Loads (lb)

Vert: 8=-1216(B) 7=-1216(B) 6=-1224(B) 12=-1216(B) 13=-1216(B) 14=-1216(B) 15=-1216(B) 16=-1216(B) 17=-1216(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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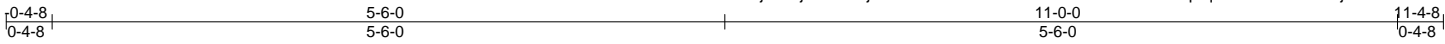
818 Soundside Road
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Job 654049_130mph	Truss CP01	Truss Type GABLE	Qty 9	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223264
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:21 2019 Page 1

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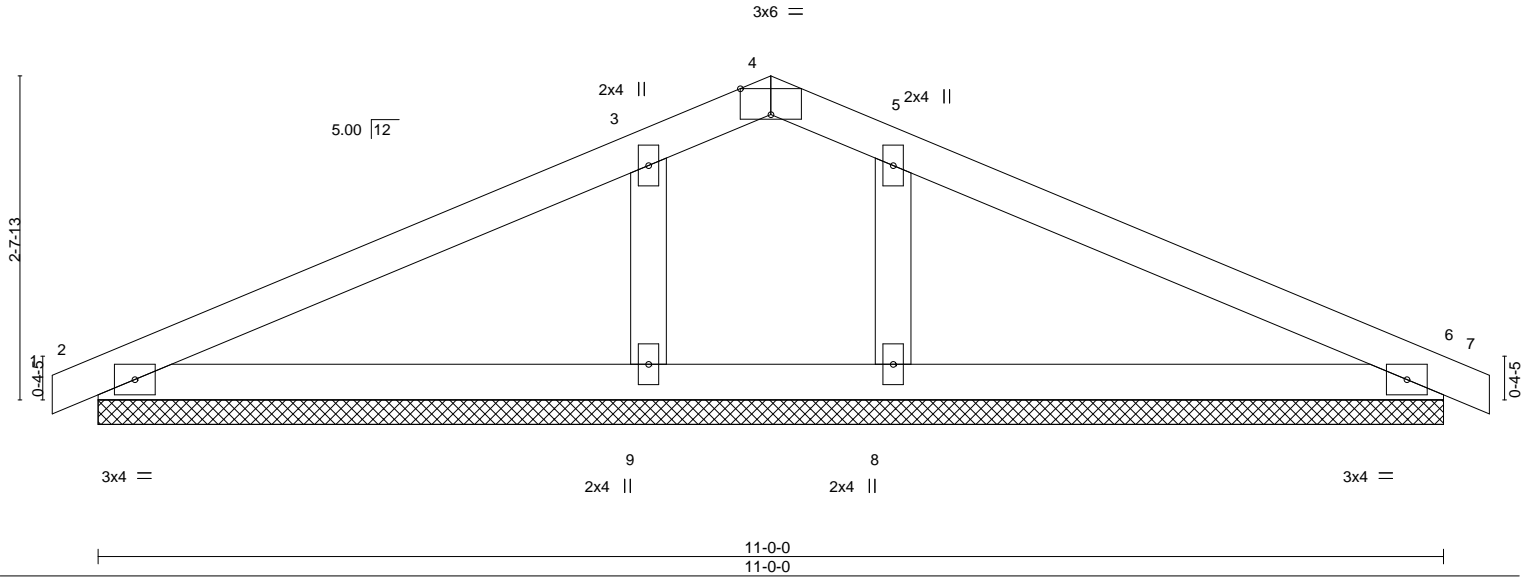


Plate Offsets (X,Y)-- [4:0-3-0,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) 0.00 7 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) 0.01 7 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 41 lb	FT = 20%

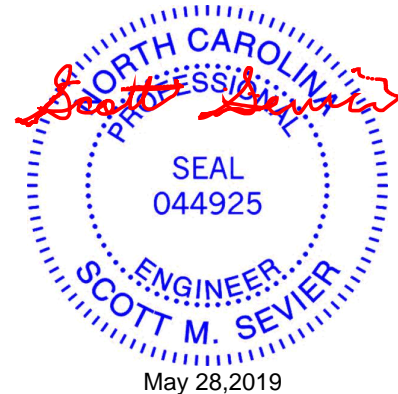
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 11-0-0.
 (lb) - Max Horz 2=55(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 9=-168(LC 12), 8=-162(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=354(LC 23), 8=354(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-9=-268/241, 5-8=-268/241

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 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=168, 8=162.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



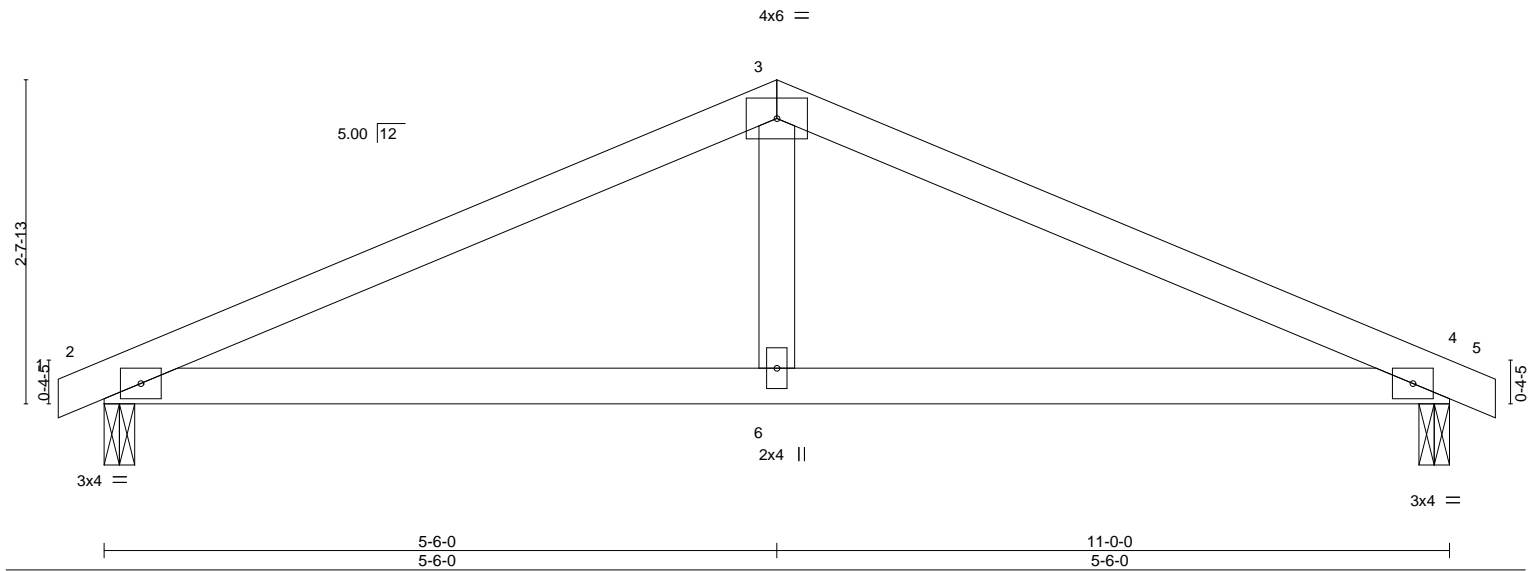
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223265
654049_130mph	CP02	Common	37	1		
Builders FirstSource, Sumter, SC - 29153,						8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:22 2019 Page 1
Job Reference (optional)						ID:XOjtQcFjQu8X?XjGN5R0bmzVOff-yybJe575NAEj39Kbn2LQNEbv6yKr?CdbVNdUBgzC?b3



Scale = 1:18.8



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 0.37	Vert(LL)	-0.03	6-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.06	6-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.01	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07	6-12	>999	Weight: 39 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=463/0-3-0, 4=463/0-3-0
 Max Horz 2=-55(LC 13)
 Max Uplift 2=-222(LC 8), 4=-222(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-696/941, 3-4=-696/941
 BOT CHORD 2-6=-779/609, 4-6=-779/609
 WEBS 3-6=-384/247

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=222, 4=222.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

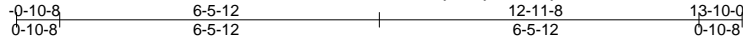
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 654049_130mph	Truss D01	Truss Type Common Supported Gable	Qty 8	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223266
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:23 2019 Page 1

ID:XOjtcQcFjQu8X?XjGN5R0bmzVOFF-Q89hsR8j8UMahJvnLltfwR87oMkskcvlk1M1j6zC?b2



4x6 =

Scale = 1:46.7

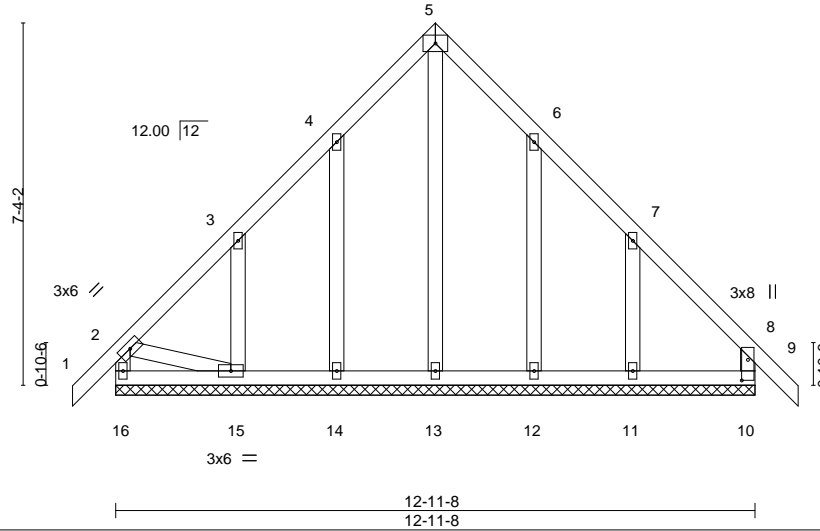


Plate Offsets (X,Y)--	[8:0-5-0,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) -0.00 9 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.00 9 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 88 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 12-11-8.
 (lb) - Max Horz 16=278(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 13 except 16=-149(LC 8), 14=-158(LC 12), 15=-236(LC 12), 12=-135(LC 13), 11=-245(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 10, 14, 12, 11 except 16=260(LC 20), 13=319(LC 13), 15=255(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 4-5=-257/286, 5-6=-257/284
 BOT CHORD 15-16=-237/257
 WEBS 5-13=-309/219, 7-11=-271/241

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 13 except (jt=lb) 16=149, 14=158, 15=236, 12=135, 11=245.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

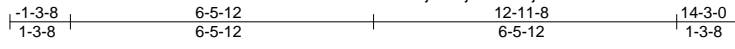
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss D02	Truss Type GABLE	Qty 2	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223267
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:24 2019 Page 1

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3x6 =

Scale = 1:49.2

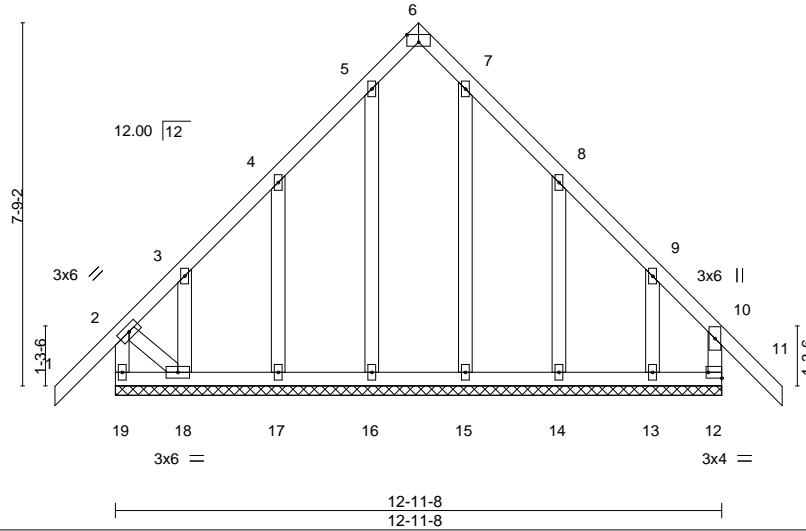


Plate Offsets (X,Y)--	[6:0-3-0,Edge], [12:Edge,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.01 11 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.02 11 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 95 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-19: 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 12-11-8.
(lb) - Max Horz 19=312(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 12, 16 except 19=-206(LC 8), 17=-205(LC 12), 18=-281(LC 12), 14=-189(LC 13), 13=-292(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12, 16, 17, 15, 14, 13 except 19=314(LC 9), 18=262(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-300/208
BOT CHORD 18-19=-283/267
WEBS 4-17=-255/250, 8-14=-253/234, 9-13=-260/212, 2-18=-212/282

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 16 except (jt=lb) 19=206, 17=205, 18=281, 14=189, 13=292.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



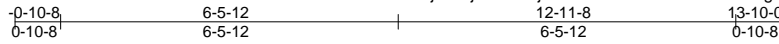
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss D03	Truss Type Common	Qty 1	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223268
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:25 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-MXGSH7Azg5cHwd2ASAv7?sDQ69NFCYp1BLr8n?zC?b0



4x6 ||

Scale = 1:44.2

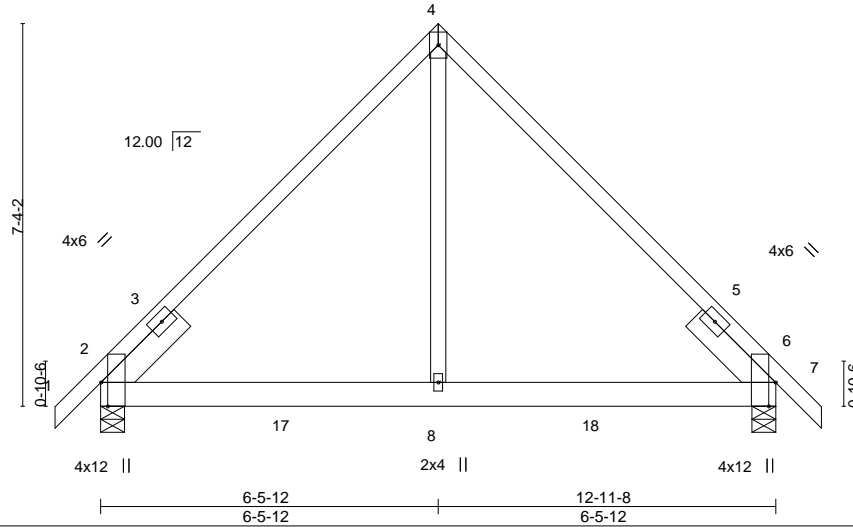


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [6:0-5-8,Edge]

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 0.33	Vert(LL)	0.04	8-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.04	8-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 81 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

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

REACTIONS.

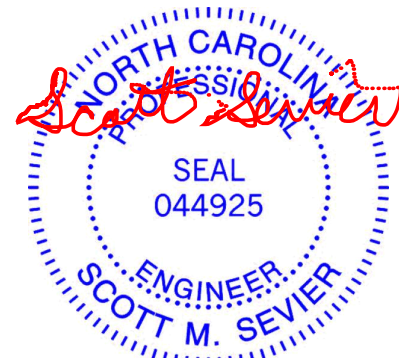
(lb/size) 2=566/0-5-8, 6=566/0-5-8
 Max Horz 2=-245(LC 10)
 Max Uplift 2=-135(LC 12), 6=-135(LC 13)
 Max Grav 2=594(LC 19), 6=594(LC 20)

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

TOP CHORD 2-4=-611/396, 4-6=-611/396
 BOT CHORD 2-8=-25/392, 6-8=-25/392
 WEBS 4-8=-81/334

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=135, 6=135.
- 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.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



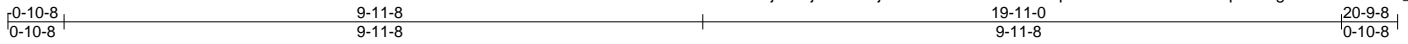
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss G01	Truss Type GABLE	Qty 2	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223269
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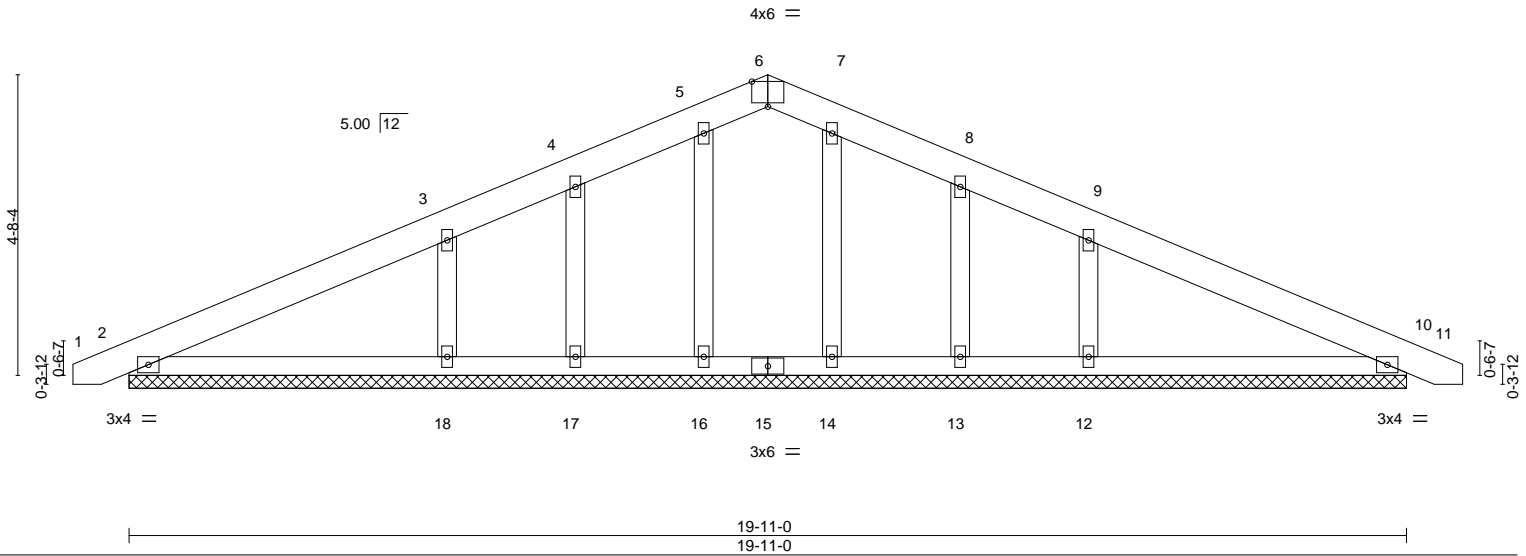
Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:27 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-lwOCipBECis?AxCYabxb4HlpWz5igT5KffKFszC?b_



Scale = 1:35.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.14	Vert(LL) 0.00 11 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) 0.01 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: 109 lb	FT = 20%

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

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

REACTIONS. All bearings 19-11-0.
 (lb) - Max Horz 2=-100(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 14, 13 except 18=-188(LC 12), 12=-187(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 10, 16, 17, 14, 13 except 18=401(LC 1), 12=401(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-18=-299/266, 9-12=-299/266

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 14, 13 except (jt=lb) 18=188, 12=187.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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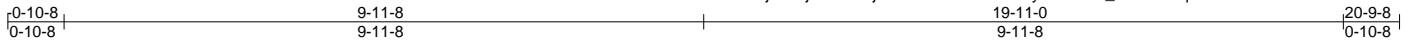
Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223270
654049_130mph	G02	COMMON	14	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:28 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-m6yav9Csz0_so4nl8lSqdvteNFQPvAUtJ4oNKzC?az

Job Reference (optional)



Scale = 1:35.9

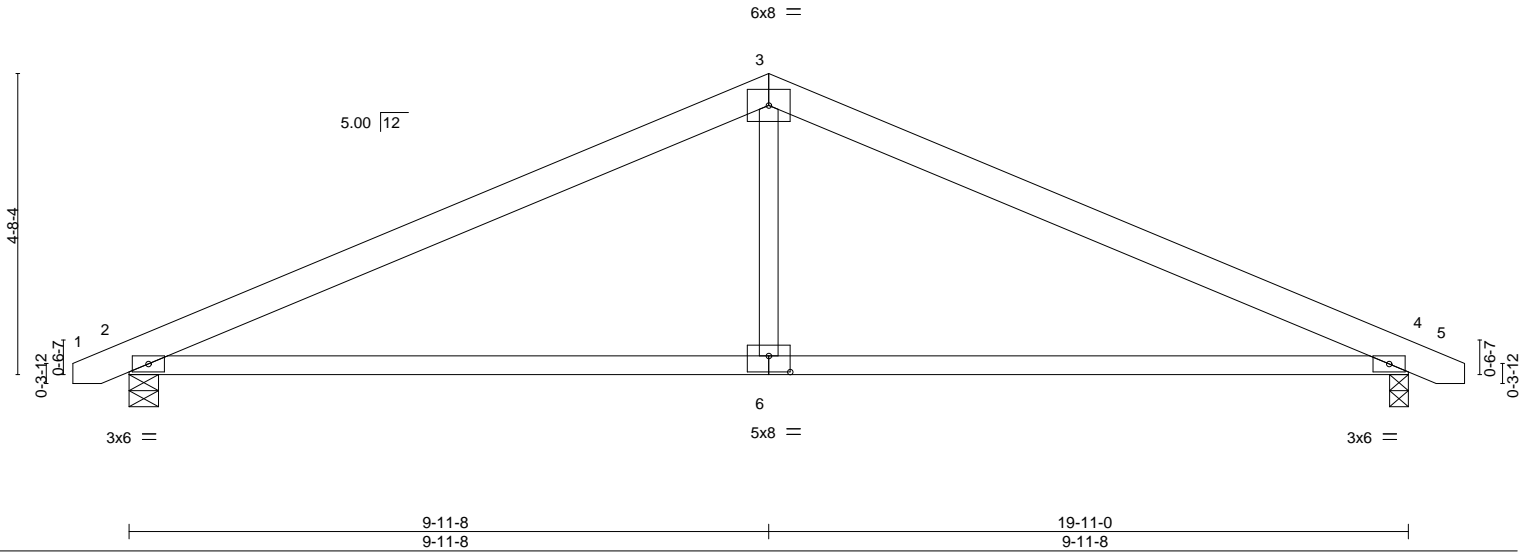


Plate Offsets (X,Y)--	[6:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	-0.13	6-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.28	6-9	>844		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.02	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.13	6-9	>999	Weight: 91 lb	FT = 20%

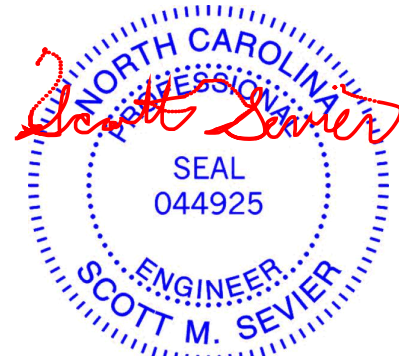
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) 2=836/0-5-8, 4=836/0-3-8
 Max Horz 2=-100(LC 13)
 Max Uplift 2=-235(LC 12), 4=-235(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1235/530, 3-4=-1235/530
 BOT CHORD 2-6=-340/1080, 4-6=-340/1080
 WEBS 3-6=0/404

- NOTES-** (8)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=235, 4=235.
 - 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) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



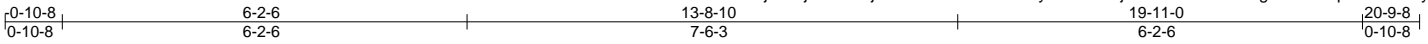
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss G03	Truss Type Hip Girder	Qty 1	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223271
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:29 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOf-EIWy6VDUkK6jPEMxh0z39iO2?ng88NBd6zplwzmzC?ay



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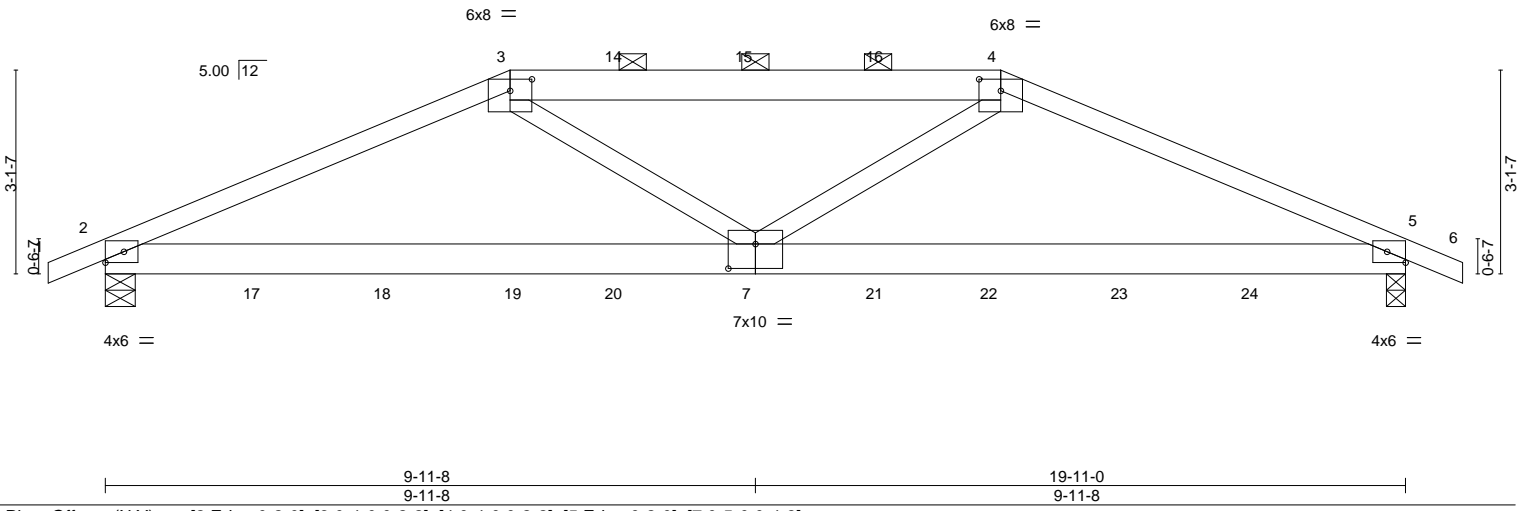


Plate Offsets (X, Y)-- [2:Edge,0-2-0], [3:0-4-0,0-2-2], [4:0-4-0,0-2-2], [5:Edge,0-2-0], [7:0-5-0,0-4-8]

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 0.52	Vert(LL)	0.17	7-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.15	7-10	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.11	Horz(CT)	-0.02	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 100 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins, except 2-0-0 oc purlins (5-2-5 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 7-2-11 oc bracing.

REACTIONS. (lb/size) 2=921/0-5-8, 5=921/0-3-8
Max Horz 2=66(LC 31)
Max Uplift 2=607(LC 8), 5=604(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1491/1096, 3-4=-1523/1228, 4-5=-1491/1094
BOT CHORD 2-7=-947/1379, 5-7=-938/1328
WEBS 3-7=-278/394, 4-7=-283/394

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=607, 5=604.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 56 lb up at 6-2-6, 95 lb down and 56 lb up at 7-10-4, 95 lb down and 56 lb up at 9-10-4, and 95 lb down and 56 lb up at 11-10-4, and 89 lb down and 56 lb up at 13-8-10 on top chord, and 42 lb down and 59 lb up at 2-3-12, 45 lb down and 96 lb up at 4-3-12, 38 lb down and 66 lb up at 6-3-12, 38 lb down and 66 lb up at 7-10-4, 38 lb down and 66 lb up at 9-10-4, 38 lb down and 66 lb up at 11-10-4, 38 lb down and 66 lb up at 13-7-4, and 45 lb down and 96 lb up at 15-7-4, and 42 lb down and 59 lb up at 17-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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



Continued on page 2

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	I37223271
654049_130mph	G03	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:29 2019 Page 2
 ID:XOjtQcFjQu8X?XjGN5R0bmzVOf-EIWY6VDUkK6jPEMxh0z39iO2?ng88NBd6zplwmzC?ay

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 8-11=-20

Concentrated Loads (lb)

Vert: 17=-42(B) 18=-30(B) 23=-30(B) 24=-42(B)

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818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss J01	Truss Type GABLE	Qty 8	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223272
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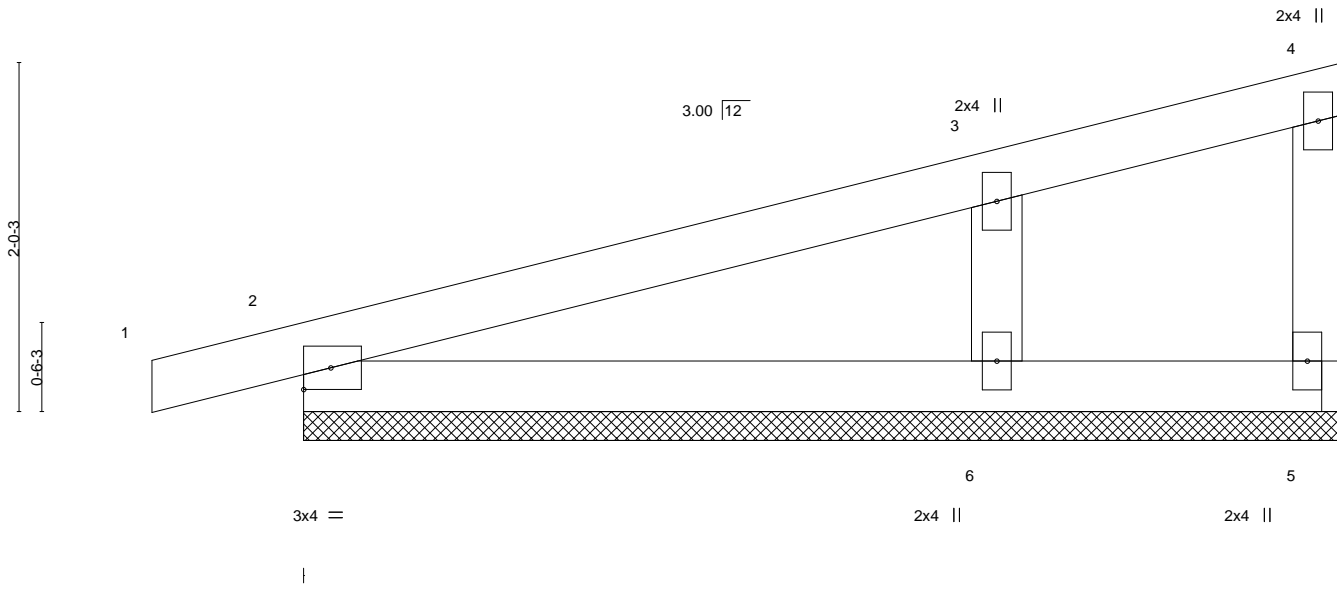
Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:30 2019 Page 1

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Scale = 1:13.3



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 0.19	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 23 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 5=14/6-0-0, 2=190/6-0-0, 6=317/6-0-0
 Max Horz 2=92(LC 9)
 Max Uplift 5=-6(LC 9), 2=-92(LC 8), 6=-127(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-234/285

- NOTES-** (9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2 except (jt=lb) 6=127.
 - 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss J02	Truss Type Monopitch	Qty 40	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223273
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:31 2019 Page 1

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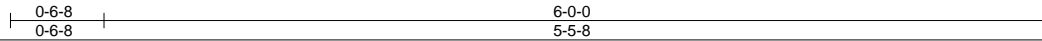
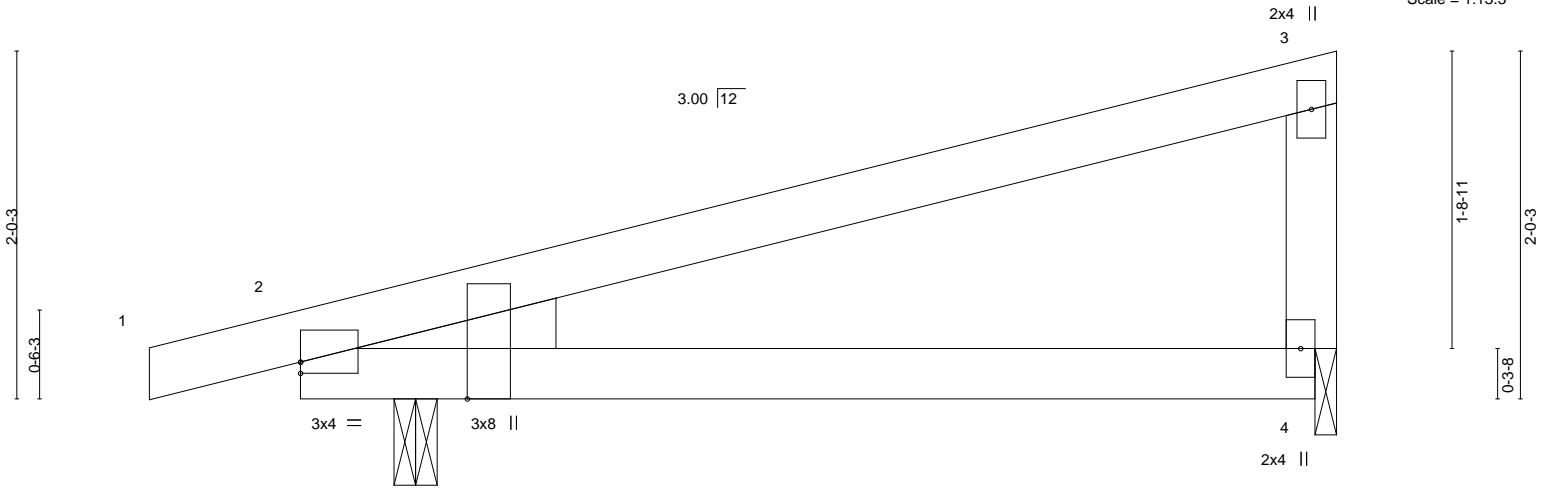


Plate Offsets (X,Y)--	[2:0-0-0,0-0-12], [2:0-2-9,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) 0.11 4-9 >624 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.07 4-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 23 lb	FT = 20%

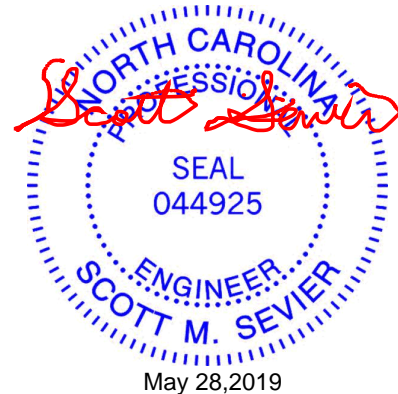
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

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

REACTIONS. (lb/size) 2=320/0-3-0, 4=201/0-1-8
 Max Horz 2=92(LC 8)
 Max Uplift 2=-216(LC 8), 4=-144(LC 8)

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

- NOTES-** (9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 5) 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=216, 4=144.
 - 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) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223274
654049_130mph	J03	Monopitch	24	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:32 2019 Page 1

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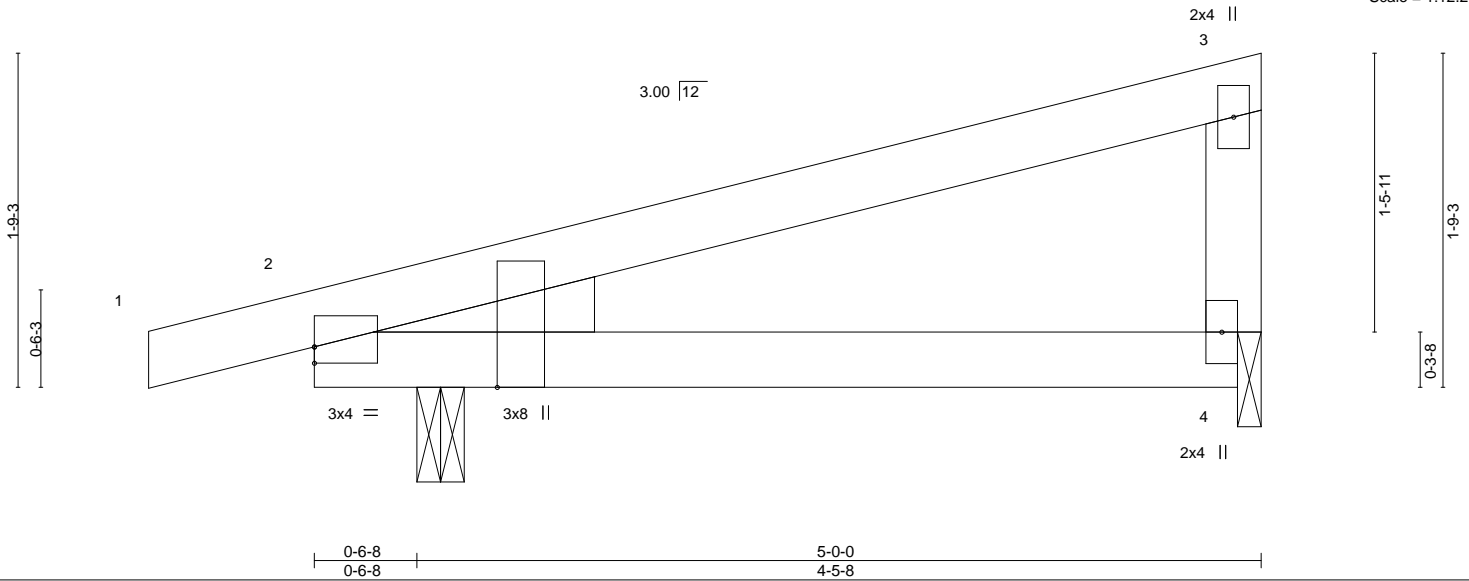


Plate Offsets (X,Y)--	[2:0-0-0,0-1-0], [2:0-2-9,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	0.05	4-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.03	4-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 20 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (lb/size) 2=283/0-3-0, 4=158/0-1-8
 Max Horz 2=78(LC 8)
 Max Uplift 2=-194(LC 8), 4=-113(LC 8)

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

- NOTES-** (9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 5) 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=194, 4=113.
 - 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) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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Job 654049_130mph	Truss J04	Truss Type GABLE	Qty 7	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223275
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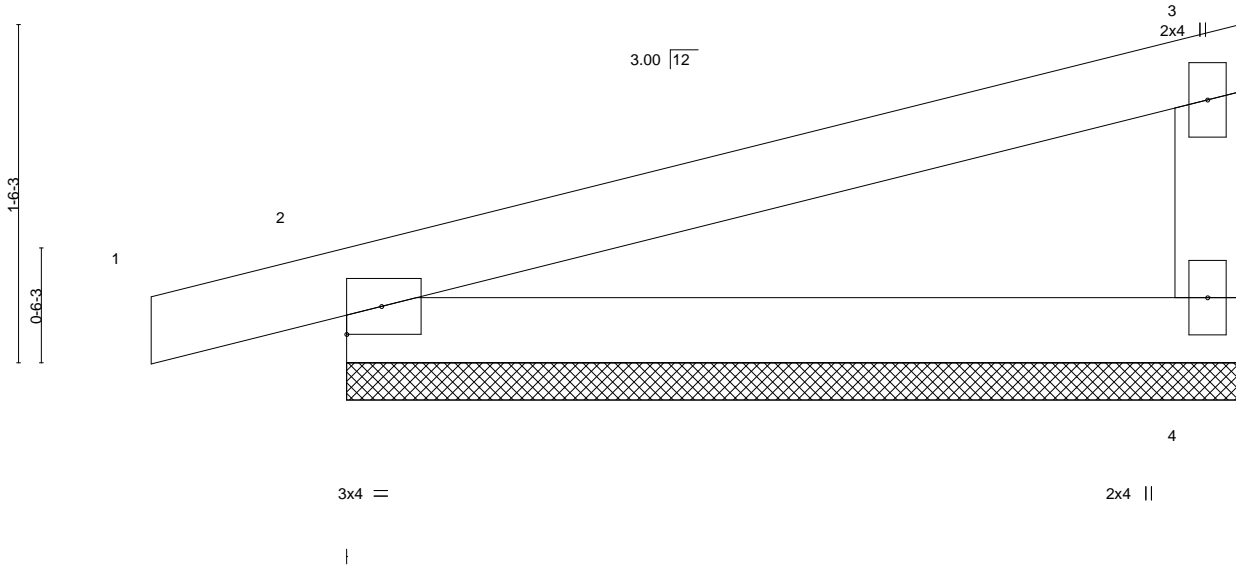
Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:33 2019 Page 1

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Scale = 1:10.3



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 0.25	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

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

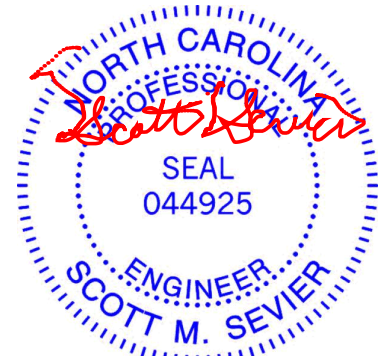
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=148/4-0-0, 2=213/4-0-0
 Max Horz 2=65(LC 9)
 Max Uplift 4=-56(LC 12), 2=-106(LC 8)

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

NOTES- (9)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=106.
- 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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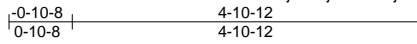
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss J05	Truss Type JACK-OPEN	Qty 50	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223276
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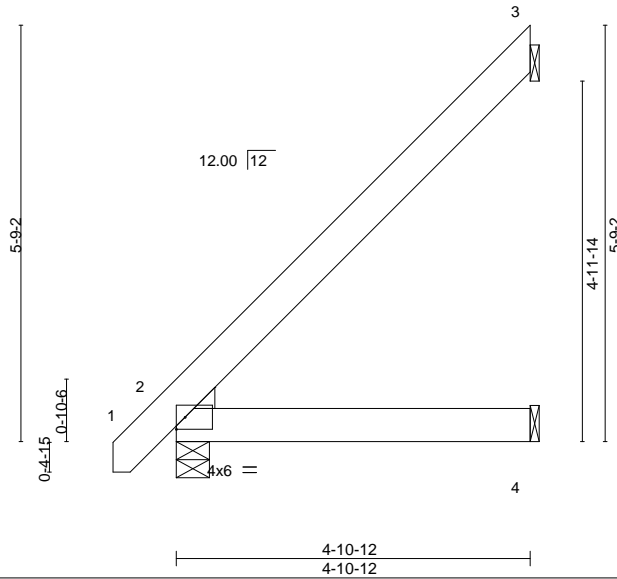
Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:33 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-74ITysG_nYd9usfiwr2?KYp_O8B4CpD1bnZ3XzC?au



Scale: 3/8"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	0.02 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.01 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: 32 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=128/Mechanical, 2=242/0-5-8, 4=62/Mechanical
Max Horz 2=286(LC 12)
Max Uplift 3=194(LC 12), 4=14(LC 12)
Max Grav 3=168(LC 19), 2=242(LC 1), 4=92(LC 3)

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

- NOTES-** (8)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 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) 4 except (jt=lb) 3=194.
 - 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) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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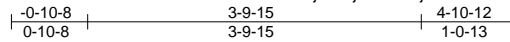
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss J06	Truss Type JACK-OPEN	Qty 11	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223277
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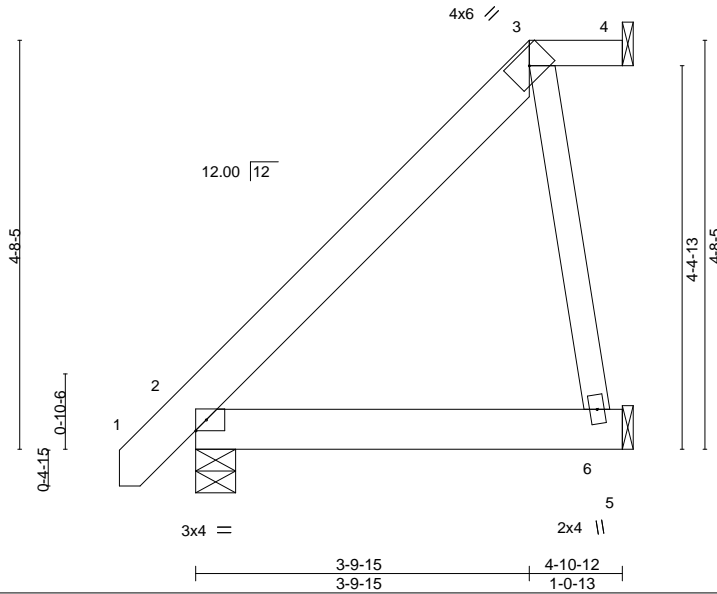
Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:34 2019 Page 1

ID: X0jtQcFjQu8X?XjGN5R0bmzVOff-bGJrACHdYsl0W?EuUZZEsm5?ooUNpe?MGFX6b_zC?at



Scale = 1:26.4



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 0.14	Vert(LL)	0.01	6-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.01	6-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS					Weight: 35 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 4=30/Mechanical, 2=236/0-5-8, 6=168/Mechanical
Max Horz 2=243(LC 12)
Max Uplift 4=-20(LC 8), 6=-141(LC 12)
Max Grav 4=30(LC 1), 2=236(LC 1), 6=186(LC 19)

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

NOTES- (11)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=141.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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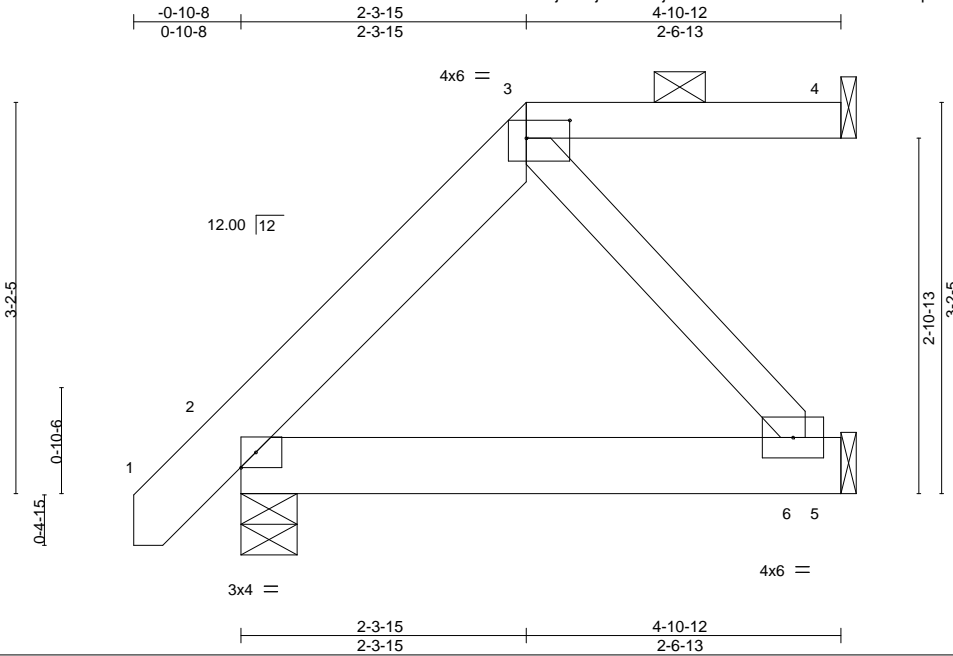
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss J07	Truss Type JACK-OPEN	Qty 11	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223278
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:35 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-3StDNYIFJAAtt79p52G4TPzdBuBqrY6hWUuGg7QzC?as



Scale = 1:18.8

Plate Offsets (X,Y)--	[3:0-4-4,0-1-12]				
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 0.11	Vert(LL) -0.01 6-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01 6-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.00 6-9 >999 240	Weight: 31 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 4=75/Mechanical, 2=242/0-5-8, 5=115/Mechanical
Max Horz 2=164(LC 12)
Max Uplift 4=50(LC 8), 2=38(LC 12), 5=44(LC 12)
Max Grav 4=75(LC 1), 2=242(LC 1), 5=119(LC 3)

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

- NOTES-** (11)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
 - 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.
 - 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss J08	Truss Type HALF HIP GIRDER	Qty 12	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223279
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:36 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-XfRcault4T?kiJOHc_bixBAIEbA6HZ5fjY0DfszC?ar

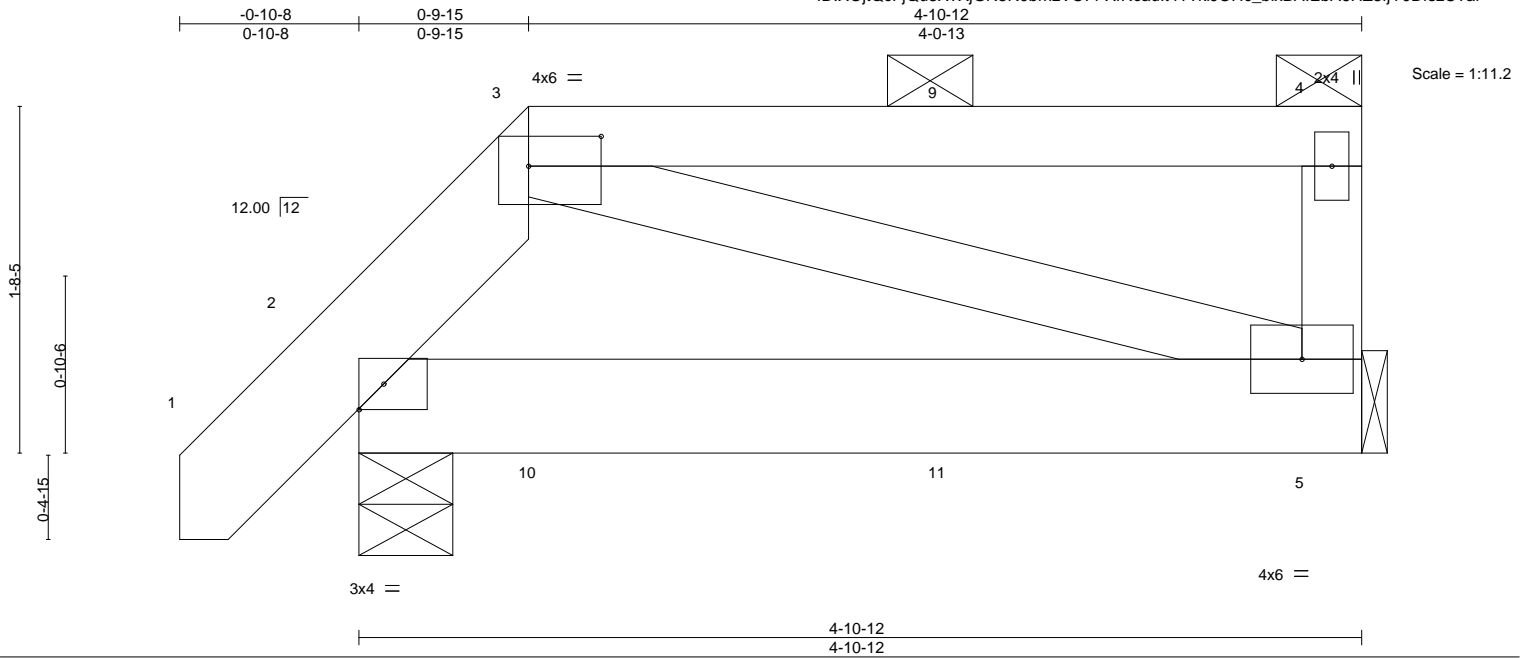


Plate Offsets (X,Y)-- [3:0-4-4,0-1-12]

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 0.33	Vert(LL)	-0.00	5-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.01	5-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	5-8	>999	Weight: 31 lb	FT = 20%

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

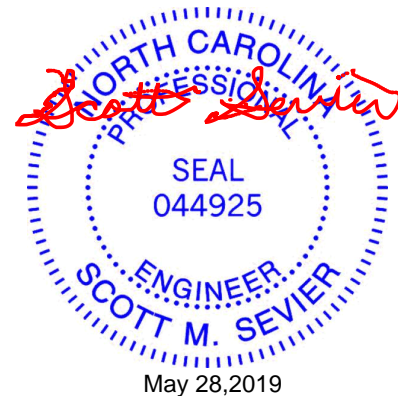
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=240/0-5-8, 5=187/Mechanical
Max Horz 2=86(LC 8)
Max Uplift 2=-73(LC 8), 5=-81(LC 5)

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

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi, Joint 5 User Defined crushing capacity of 425 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 30 lb up at 0-9-15, and 71 lb down and 28 lb up at 2-11-8 on top chord, and 10 lb down and 13 lb up at 0-11-8, and 10 lb down and 13 lb up at 2-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 10=-1(B) 11=-1(B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss J09	Truss Type Jack-Open	Qty 24	Ply 1	H&H/Wilmington/ 137223280
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:37 2019 Page 1

ID: XOjtQcFjQu8X?XjGN5R0bmzVOFF-?r?_oEJVrn7aNTzT9h7xUOjX6?X800poyClnCJzC?aq



Scale = 1:11.4

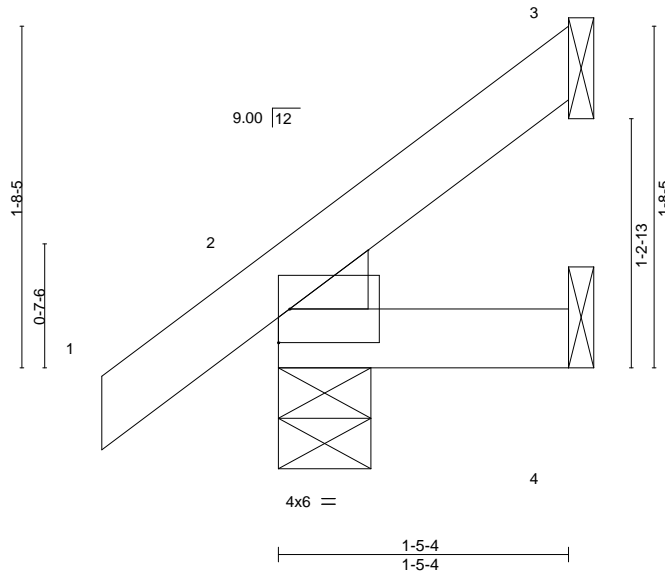


Plate Offsets (X,Y)--	[2:0-0-5,0-0-4], [2:0-3-12,0-0-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						
								Weight: 7 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-5-4 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (lb/size) 3=28/Mechanical, 2=126/0-5-8, 4=13/Mechanical
 Max Horz 2=85(LC 12)
 Max Uplift 3=36(LC 12), 2=26(LC 12), 4=6(LC 12)
 Max Grav 3=36(LC 19), 2=126(LC 1), 4=23(LC 3)

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

- NOTES-** (7)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 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) 3, 2, 4.
 - 7) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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Job 654049_130mph	Truss J10	Truss Type Jack-Open	Qty 4	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223281
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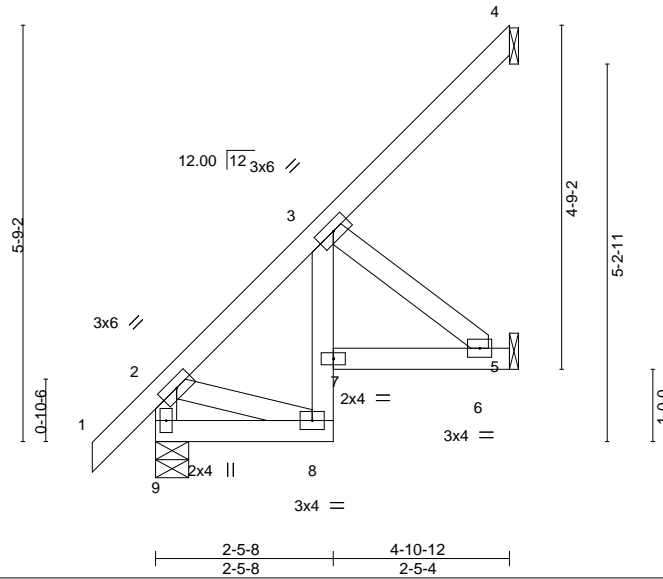
Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:38 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-U1ZM?aK7c5FR_dYgjpPeA0cFiwPp3lSgyBsVKklzC?ap



Scale: 3/8"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL) 0.01	8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT) -0.01	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT) -0.03	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS				Weight: 31 lb	FT = 20%

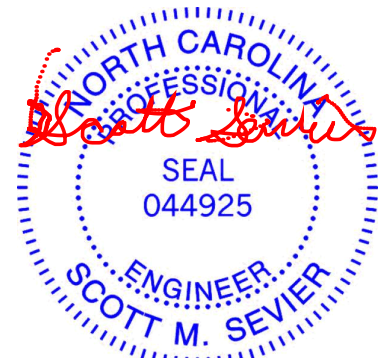
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) 9=255/0-5-8, 4=68/Mechanical, 5=112/Mechanical
 Max Horz 9=278(LC 12)
 Max Uplift 4=-103(LC 12), 5=-116(LC 12)
 Max Grav 9=255(LC 1), 4=89(LC 19), 5=146(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 8-9=-344/266, 6-7=-208/262
 WEBS 3-6=-334/267

- NOTES-** (8)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 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=103, 5=116.
 - 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) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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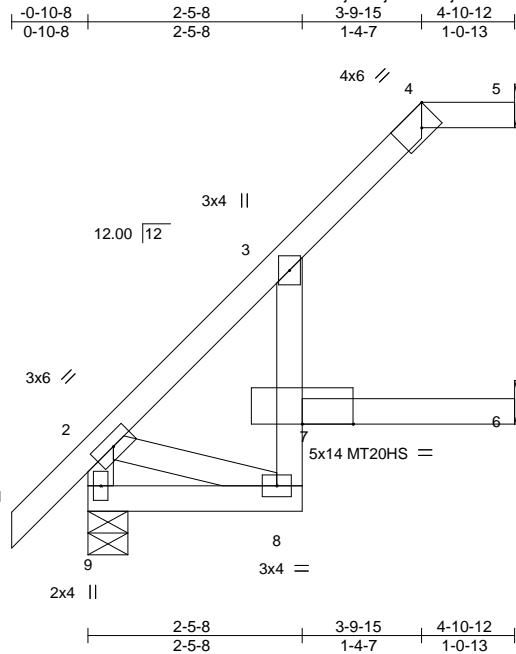
818 Soundside Road
 Edenton, NC 27932

Job 654049_130mph	Truss J11	Truss Type Jack-Open	Qty 1	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223282
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:39 2019 Page 1

ID: X0jtQcFjQu8X?XjGN5R0bmzV0Ff-yD6kDvLINONlcn7sH69PZpoqp7KUwd5PWEtGBzC?ao



Scale = 1:26.4

Plate Offsets (X,Y)--	[4:0-2-8,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	0.07	6-7	>752	240
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.05	6-7	>999	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.08	5	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS					
								PLATES
								MT20
								MT20HS
								Weight: 27 lb
								FT = 20%

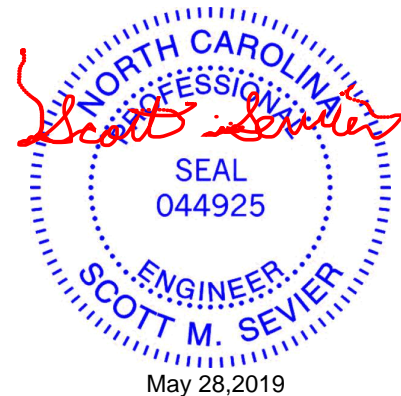
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 9=255/0-5-8, 5=104/Mechanical, 6=77/Mechanical
Max Horz 9=229(LC 12)
Max Uplift 5=-92(LC 12), 6=-56(LC 12)
Max Grav 9=255(LC 1), 5=104(LC 1), 6=91(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 8-9=-259/229

- NOTES-** (12)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.
 - 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.
 - 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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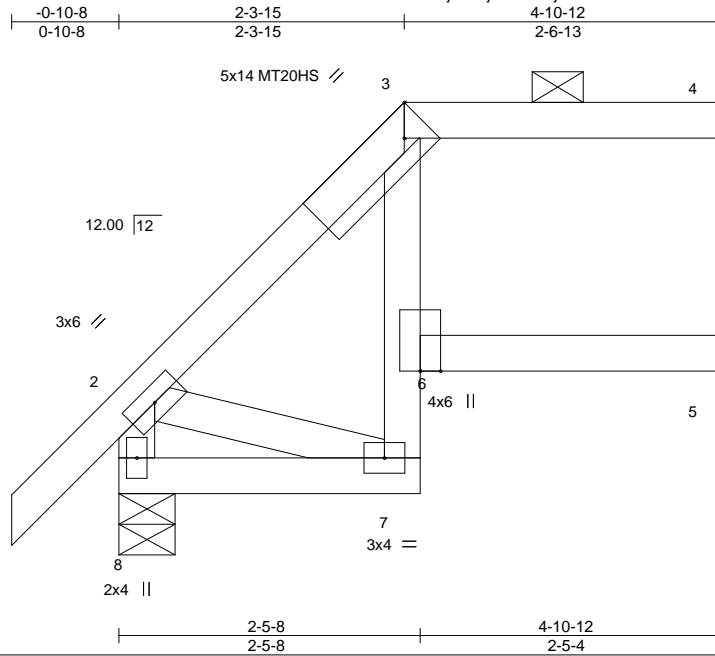
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss J12	Truss Type Jack-Open	Qty 1	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223283
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:40 2019 Page 1

ID: XOjtQcFjQu8X?XjGN5R0bmzVOFF-QQg6QFLN8iV9Ewi2rpg61L0kCUuDM8FeA_RodzC?an



Scale = 1:18.8

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 0.24	Vert(LL)	-0.02	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.04	5-6	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.05	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.04	5-6	>999		
								Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins: 3-4.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 8=255/0-5-8, 4=108/Mechanical, 5=73/Mechanical
 Max Horz 8=150(LC 12)
 Max Uplift 8=-43(LC 12), 4=-65(LC 9), 5=-22(LC 12)
 Max Grav 8=255(LC 1), 4=108(LC 1), 5=82(LC 3)

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

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

Job 654049_130mph	Truss J13	Truss Type Jack-Open	Qty 5	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223284
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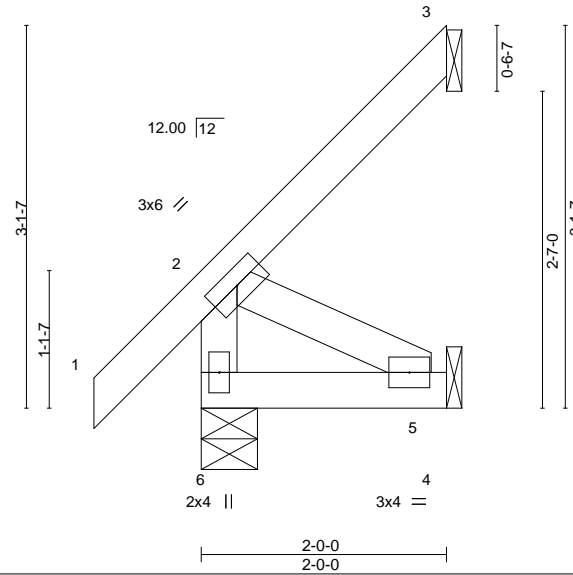
Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:41 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-ucEVebM0v0d0r4HFOXBteEtDEcu?yprOtqj_L4zC?am



Scale = 1:18.8



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 0.12	Vert(LL)	-0.00	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	6	>999		
								Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=152/0-5-8, 3=38/Mechanical, 4=18/Mechanical
Max Horz 6=125(LC 12)
Max Uplift 3=-63(LC 12), 4=-55(LC 12)
Max Grav 6=152(LC 1), 3=53(LC 19), 4=50(LC 10)

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

- NOTES-** (6)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 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) 3, 4.
 - 6) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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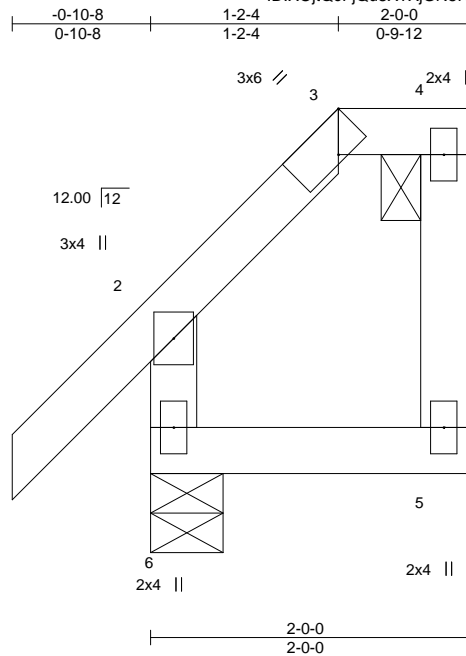
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss J14	Truss Type Half Hip	Qty 2	Ply 1	H&H/Wilmington/ 137223285
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:42 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-MootrxNegJlTeRyEi6BSQNF0DQhG2Y6UTYtWzC?al



Scale = 1:14.6

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	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.00	6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR						
								Weight: 13 lb	FT = 20%

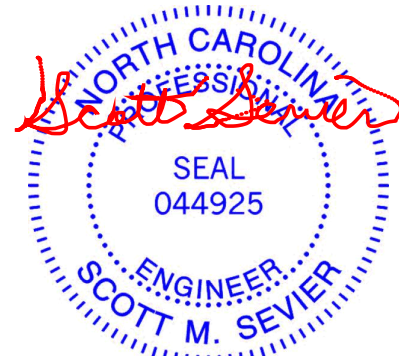
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=50/Mechanical, 6=148/0-5-8
Max Horz 6=123(LC 9)
Max Uplift 5=-79(LC 9), 6=-39(LC 12)
Max Grav 5=65(LC 19), 6=148(LC 1)

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

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint 6 User Defined crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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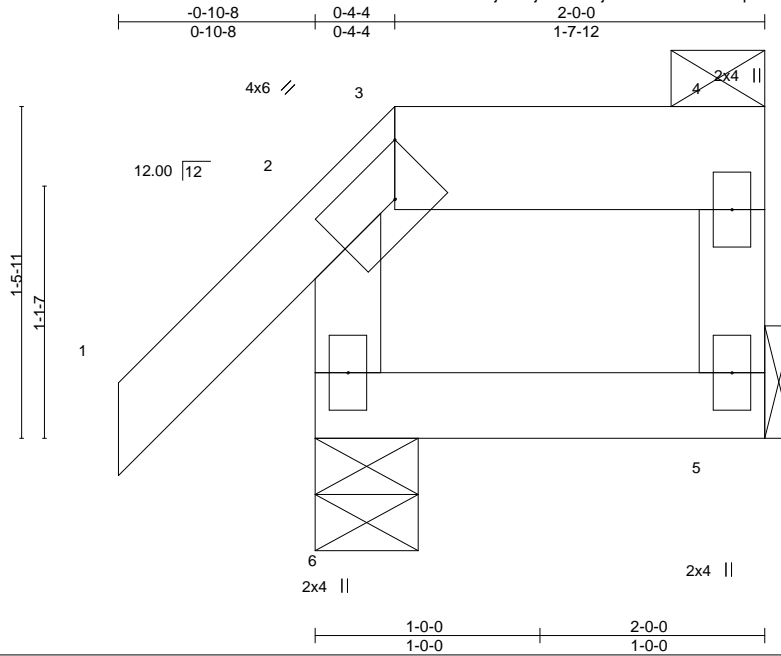
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss J15	Truss Type Half Hip	Qty 2	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223286
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:43 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOf-q?MF2HOGRdtk5OQdWyELjFzKQaaQjIhK8C5PzC?ak



Scale = 1:10.2

Plate Offsets (X,Y)-- [2:0-2-8,0-0-0], [3:0-2-4,Edge], [3:0-1-12,0-1-12]

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 0.12	Vert(LL)	-0.00	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	0.00	6	>999	Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(lb/size) 5=50/Mechanical, 6=140/0-5-8
Max Horz 6=78(LC 11)
Max Uplift 5=-42(LC 9), 6=-49(LC 12)
Max Grav 5=62(LC 24), 6=140(LC 1)

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

NOTES- (10)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 1-10-4 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 6 User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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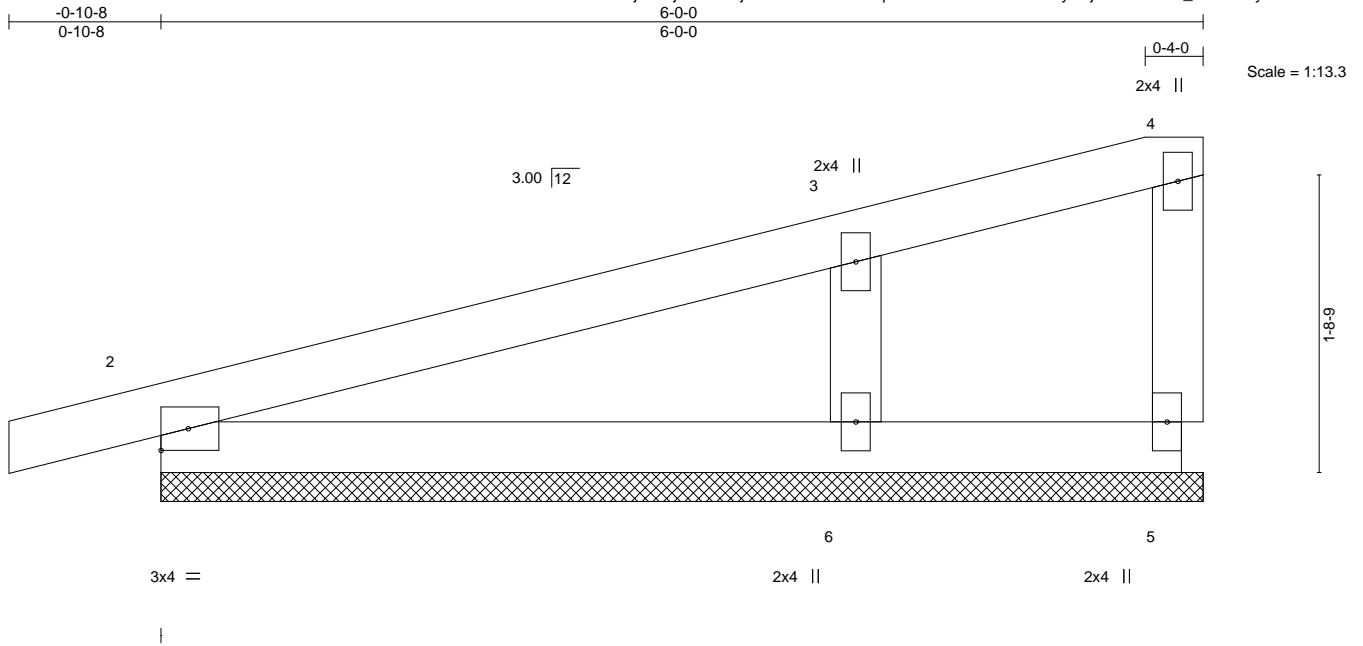
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss J21	Truss Type GABLE	Qty 2	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223287
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:43 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOff-q?MF2HOGRdtk5OQdWyELjzYmQZAQi_hK8C5PzC?ak



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	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 23 lb	FT = 20%

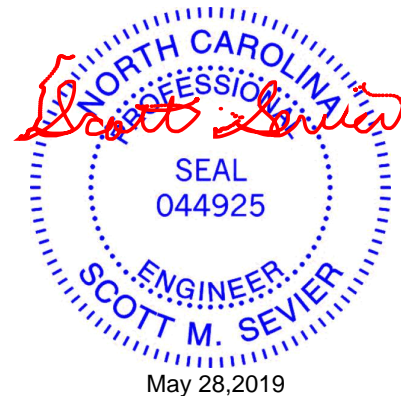
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (lb/size) 5=14/6-0-0, 2=190/6-0-0, 6=317/6-0-0
Max Horz 2=92(LC 9)
Max Uplift 5=-6(LC 9), 2=-92(LC 8), 6=-127(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-234/285

- NOTES-** (9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb) 6=127.
 - 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223288
654049_130mph	J22	Monopitch	10	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:44 2019 Page 1
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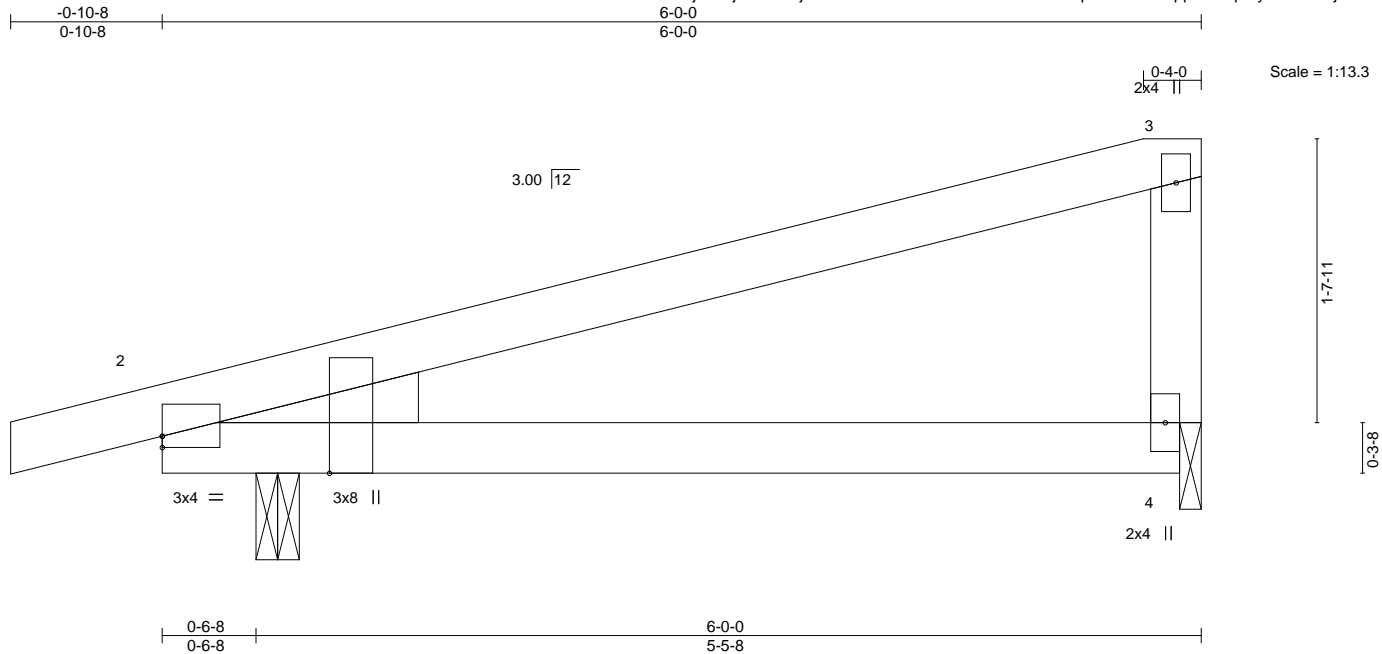


Plate Offsets (X,Y)--	[2:0-0-0,0-0-12], [2:0-2-9,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP		
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) 0.11 4-9 >624 240	MT20	244/190		
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.07 4-9 >999 240				
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 2 n/a n/a				
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS				Weight: 23 lb	FT = 20%

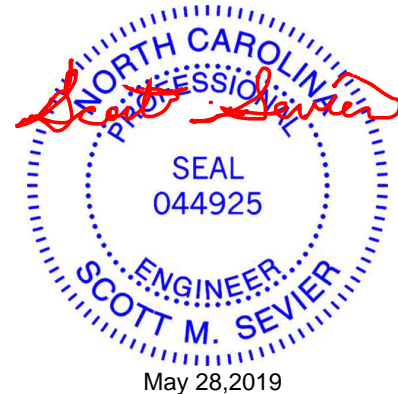
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

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

REACTIONS. (lb/size) 2=320/0-3-0, 4=201/0-1-8
 Max Horz 2=92(LC 8)
 Max Uplift 2=-216(LC 8), 4=-144(LC 8)

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

- NOTES-** (9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 5) 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=216, 4=144.
 - 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) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223289
654049_130mph	J23	Monopitch	6	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:45 2019 Page 1

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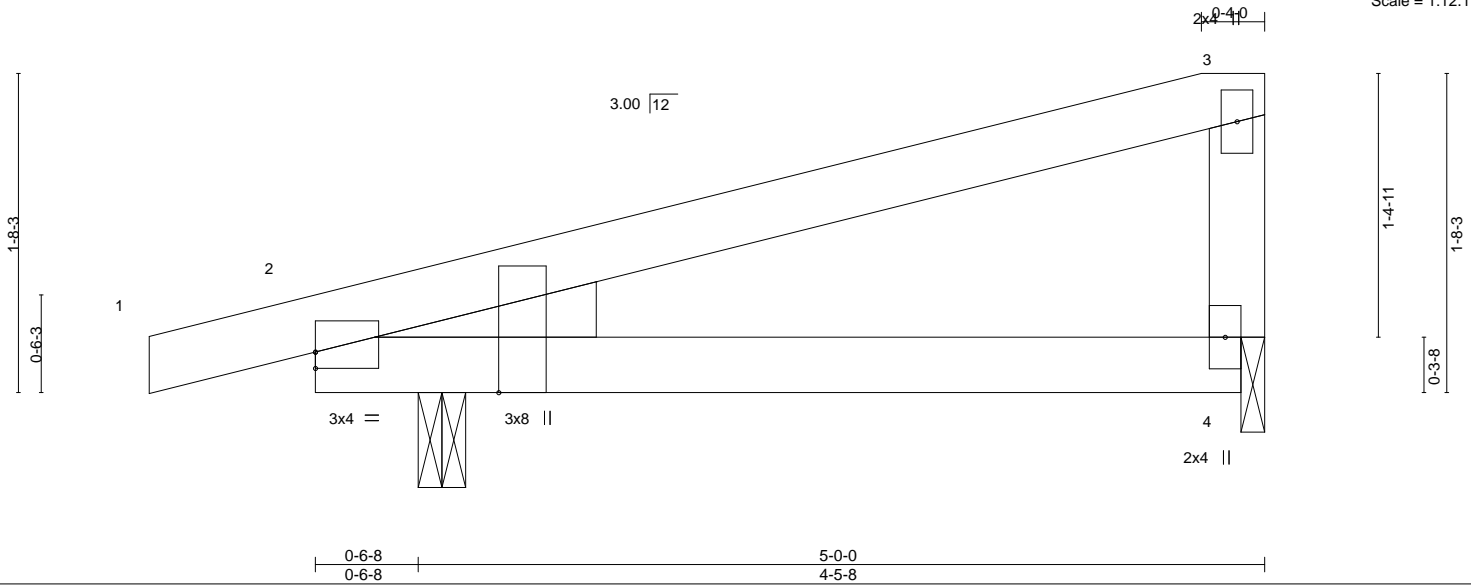


Plate Offsets (X,Y)--	[2:0-0-0,0-1-0], [2:0-2-9,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	0.05	4-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.03	4-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 20 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (lb/size) 2=283/0-3-0, 4=158/0-1-8
 Max Horz 2=78(LC 8)
 Max Uplift 2=-194(LC 8), 4=-113(LC 8)

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

- NOTES-** (9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 5) 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=194, 4=113.
 - 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) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



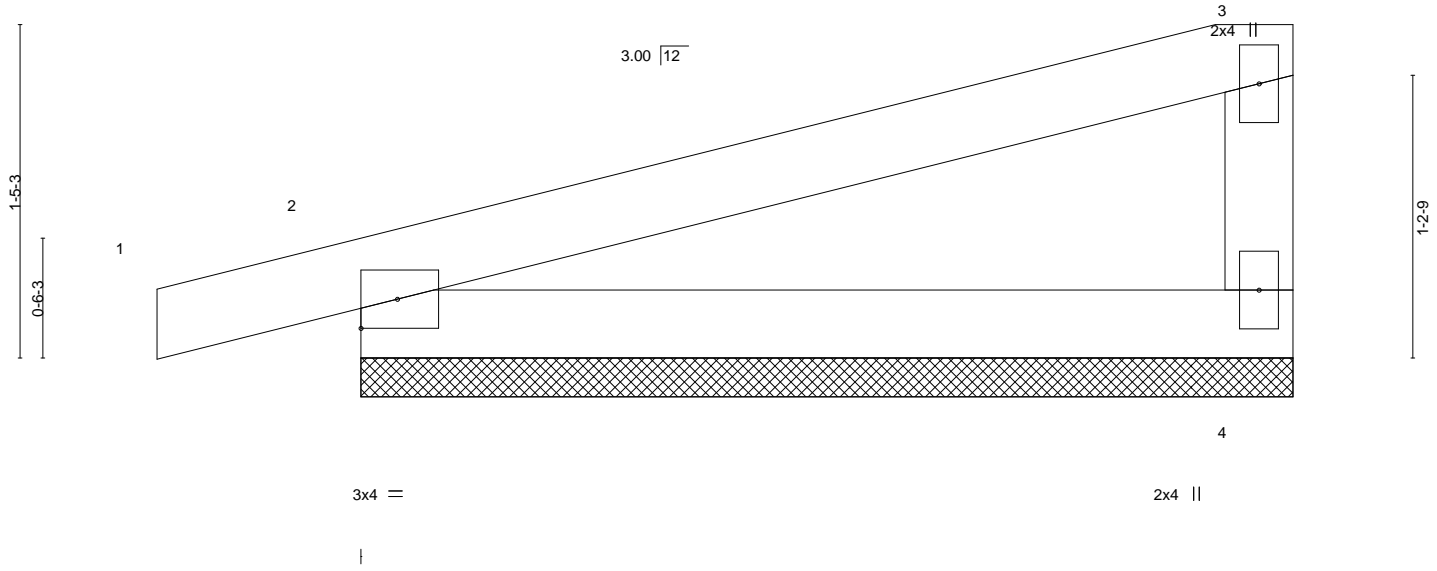
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/	137223290
654049_130mph	J24	GABLE	1	1		
Builders FirstSource, Sumter, SC - 29153,						8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:46 2019 Page 1
						ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-Fa1OhJQ8kYfJyr9CB4n2LlB1_da4d41706Rl0HzC?ah

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:46 2019 Page 1
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Scale = 1:9.9



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 0.25	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 4=148/4-0-0, 2=213/4-0-0
 Max Horz 2=65(LC 9)
 Max Uplift 4=-56(LC 12), 2=-106(LC 8)

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

- NOTES-** (9)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=106.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Job 654049_130mph	Truss PB01	Truss Type GABLE	Qty 6	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223291
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:47 2019 Page 1

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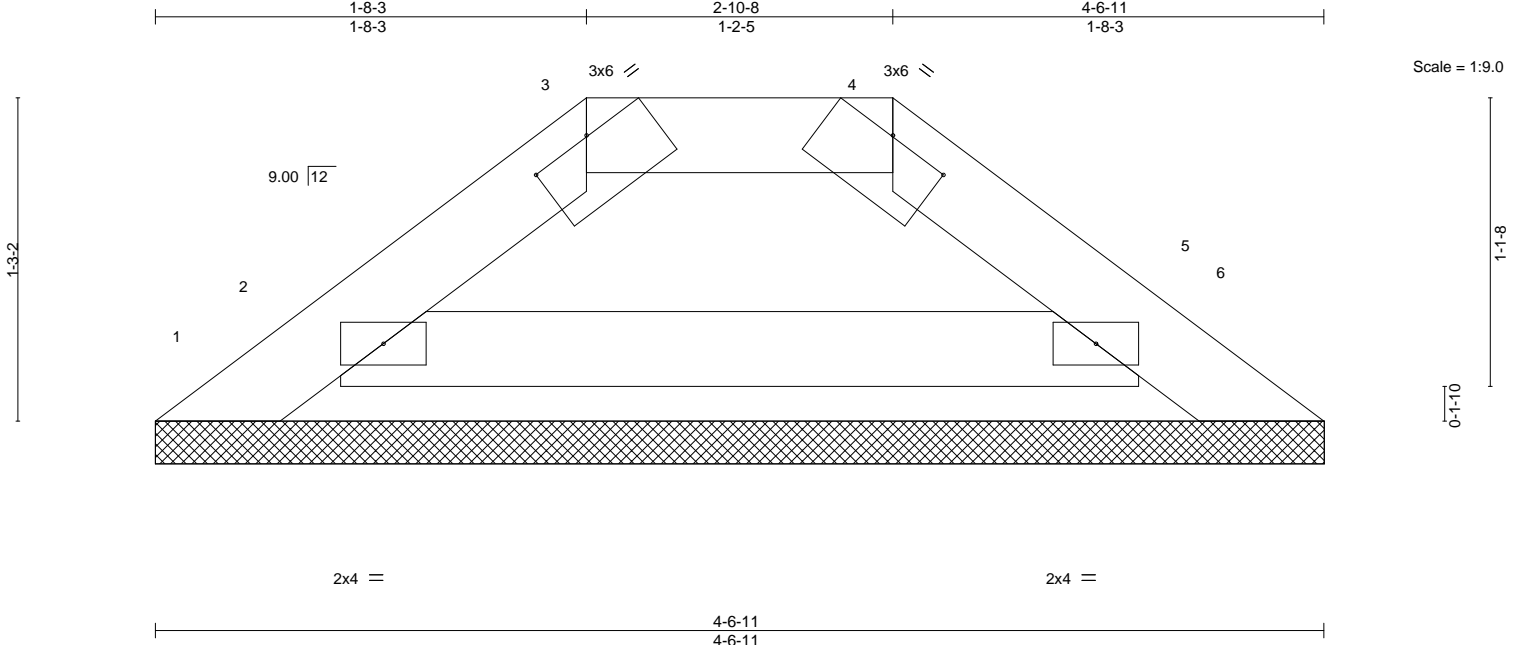


Plate Offsets (X,Y)--	[3:0-3-0,0-0-1], [4:0-3-0,0-0-1]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins, except
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-6-11.
 (lb) - Max Horz 1=37(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 2, 5
 Max Grav All reactions 250 lb or less at joint(s) 1, 6, 2, 5

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

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 2, 5.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

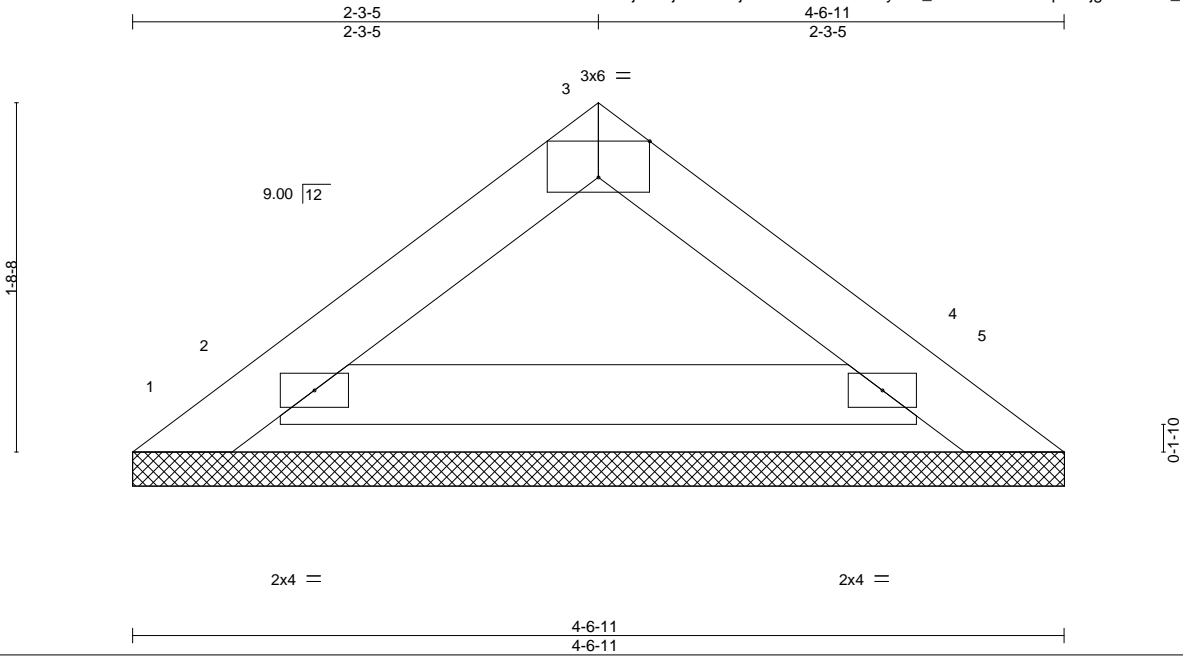


Job 654049_130mph	Truss PB02	Truss Type GABLE	Qty 159	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223292
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:48 2019 Page 1

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Scale = 1:11.3

Plate Offsets (X,Y)--	[3:0-3-0,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 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-6-11.
(lb) - Max Horz 1=51(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4

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

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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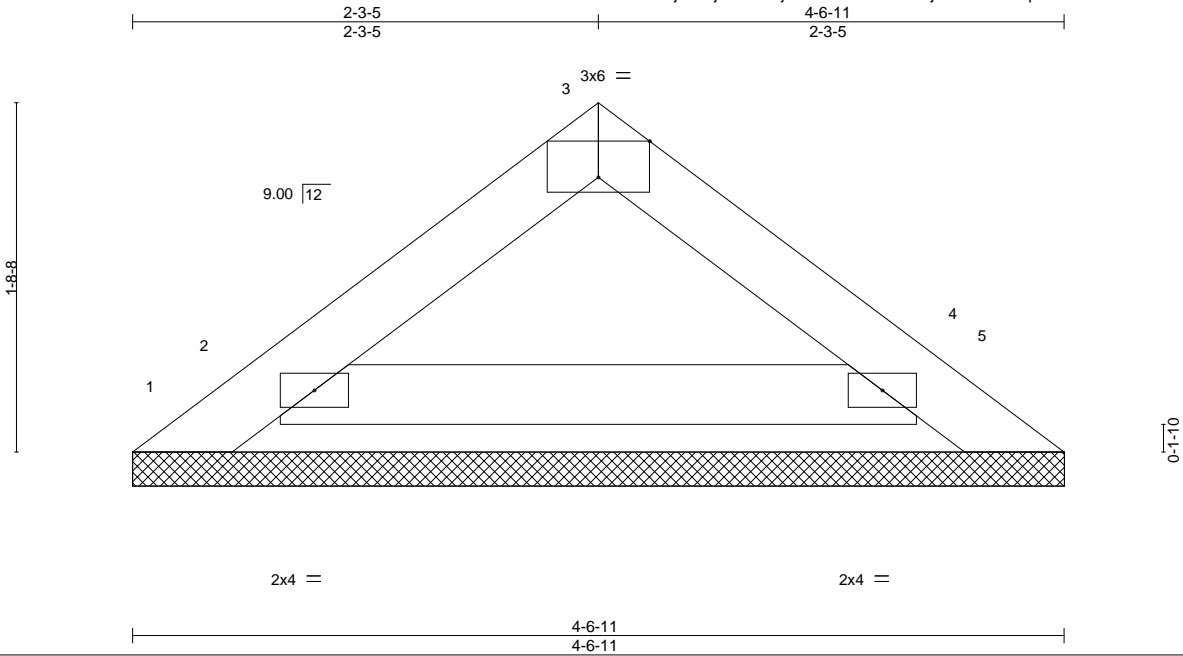


818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss PB03	Truss Type GABLE	Qty 10	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223293
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:49 2019 Page 1
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Scale = 1:11.3

Plate Offsets (X,Y)--	[3:0-3:0,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 0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-6-11.
(lb) - Max Horz 1=51(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4

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

- NOTES-** (11)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
 - 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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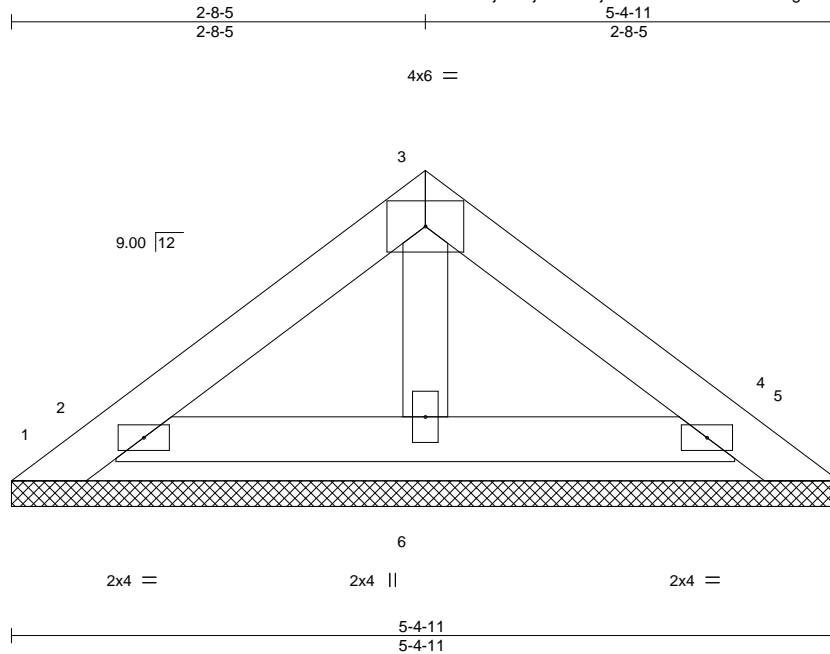
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss PB04	Truss Type GABLE	Qty 24	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223294
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:50 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOfF-7LHuWgTfnmKTTzQws_W8lItEz8ZuoJxkPz92zC?ad



Scale = 1:15.0

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 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 18 lb	FT = 20%

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

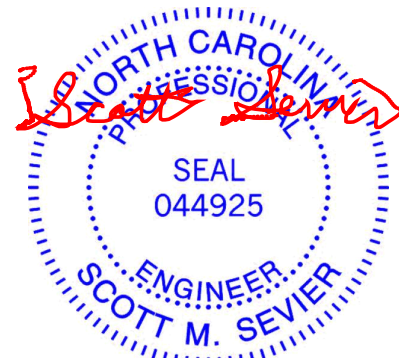
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-4-11.
(lb) - Max Horz 1=61(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 2=142(LC 12), 4=125(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 2=142, 4=125.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



May 28, 2019

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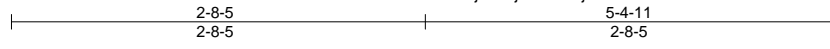
818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss PB05	Truss Type GABLE	Qty 2	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223295
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Builders FirstSource, Sumter, SC - 29153,

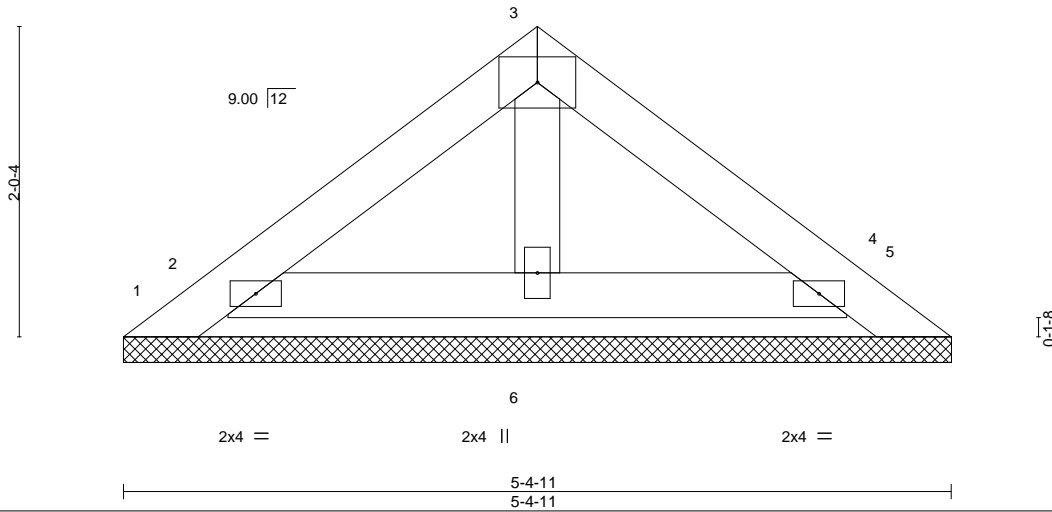
8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:51 2019 Page 1

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4x6 =

Scale = 1:15.0



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 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 18 lb	FT = 20%

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

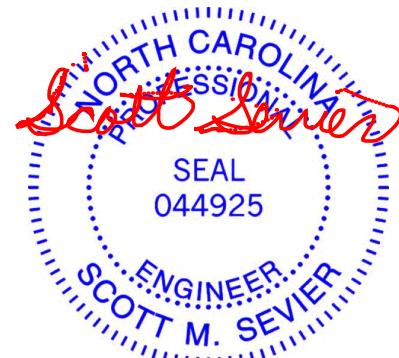
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-4-11.
(lb) - Max Horz 1=61(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 2=-142(LC 12), 4=-125(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 2=142, 4=125.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



May 28, 2019

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818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss PB06	Truss Type GABLE	Qty 24	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223296
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:52 2019 Page 1
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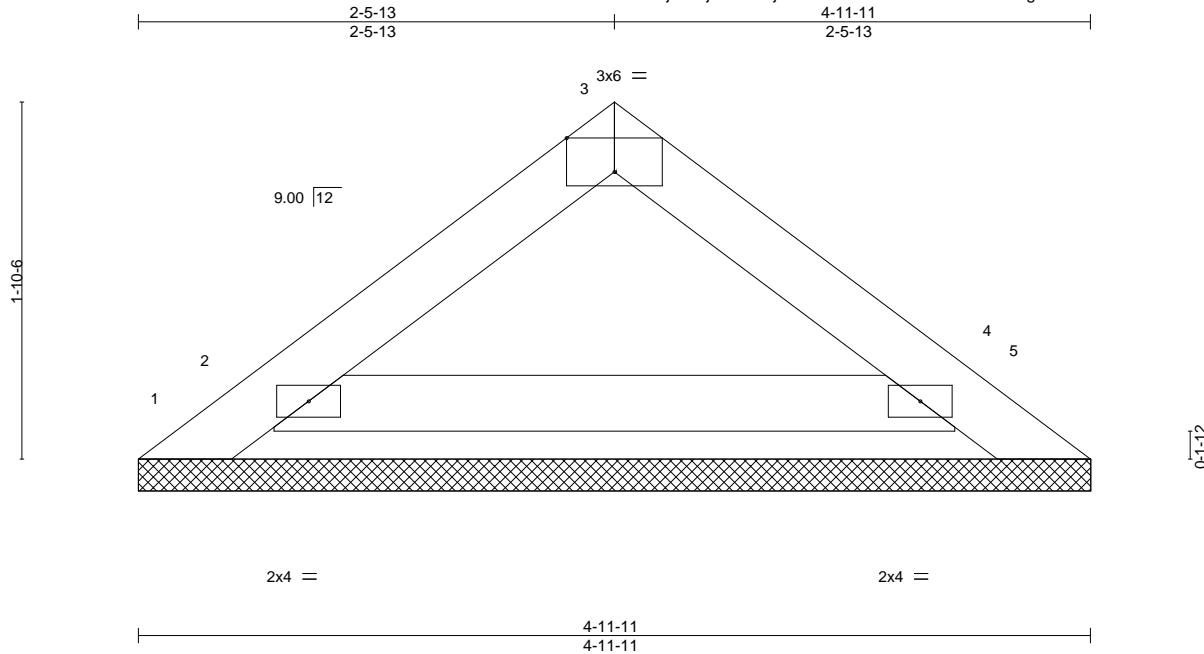


Plate Offsets (X,Y)--	[3:0-3-0,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 15 lb FT = 20%

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

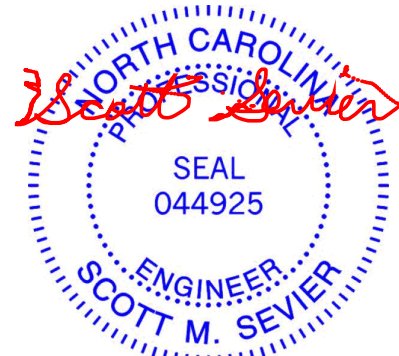
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-11-11.
(lb) - Max Horz 1=56(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 4 except 2=-112(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4

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=130mph (3-second gust) Vasd=103mph; TCCL=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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 4 except (jt=lb) 2=112.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



May 28, 2019

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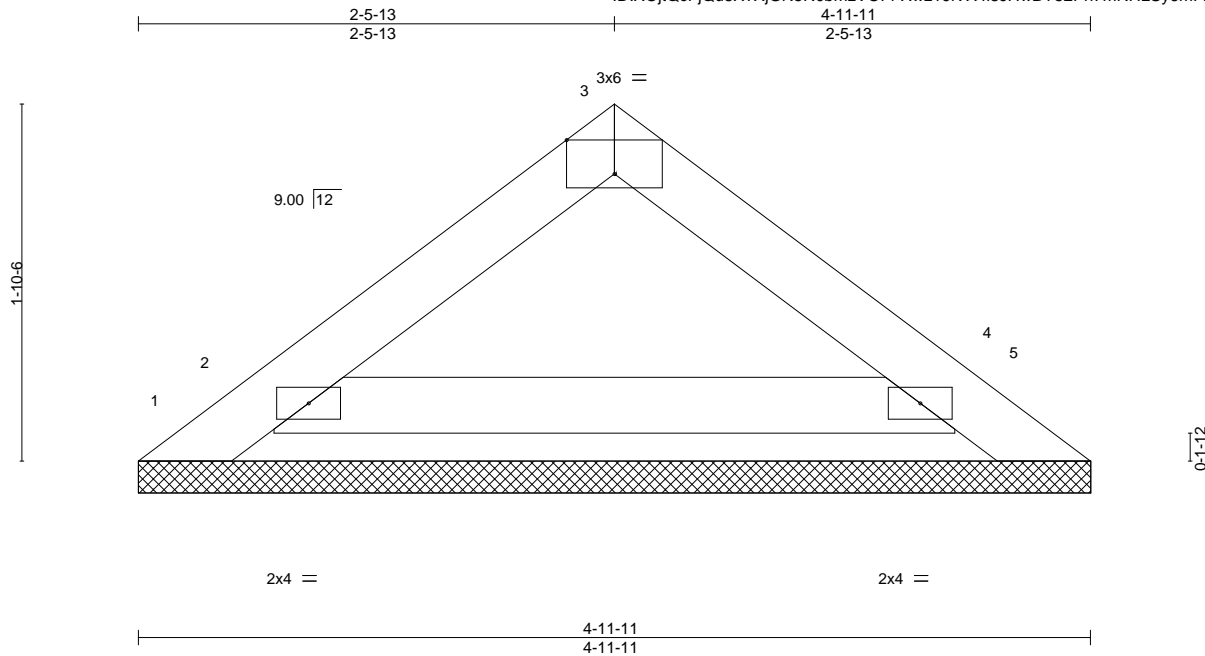


818 Soundside Road
Edenton, NC 27932

Job 654049_130mph	Truss PB07	Truss Type GABLE	Qty 2	Ply 1	H&H/Wilmington/ Job Reference (optional)	137223297
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Builders FirstSource, Sumter, SC - 29153,

8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:53 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFF-Xwz19iVX4i8JHwBY52Ph7mNHLsy6mFm9diddmNzC?aa



Scale: 1"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 15 lb	FT = 20%

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

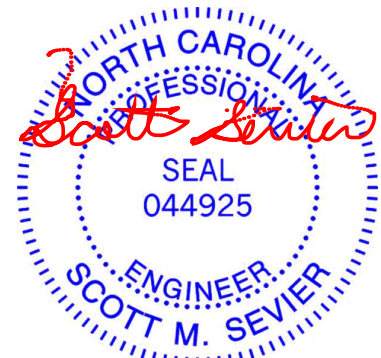
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-11-11.
(lb) - Max Horz 1=56(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 4 except 2=-112(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4

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=130mph (3-second gust) Vasd=103mph; TCCL=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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 4 except (jt=lb) 2=112.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



May 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

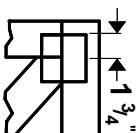
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



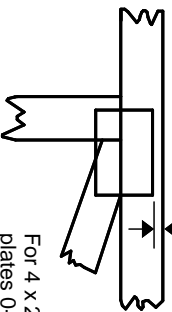
818 Soundside Road
Edenton, NC 27932

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.

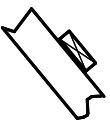
* Plate location details available in **MITrak 20/20 software or upon request.**

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



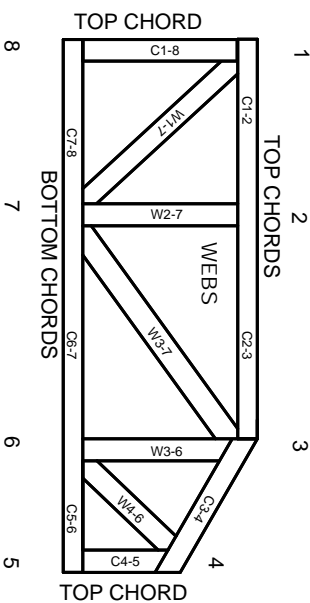
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: 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

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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: MI1-7473 rev. 10/03/2015



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.