ENGINEERING BY TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: 654049_130mph - H&H/Wilmington/

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
Sevier, Scott

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RE: 654049_130mph - H&H/Wilmington/

Trenco
818 Soundside Rd
Edenton, NC 27932

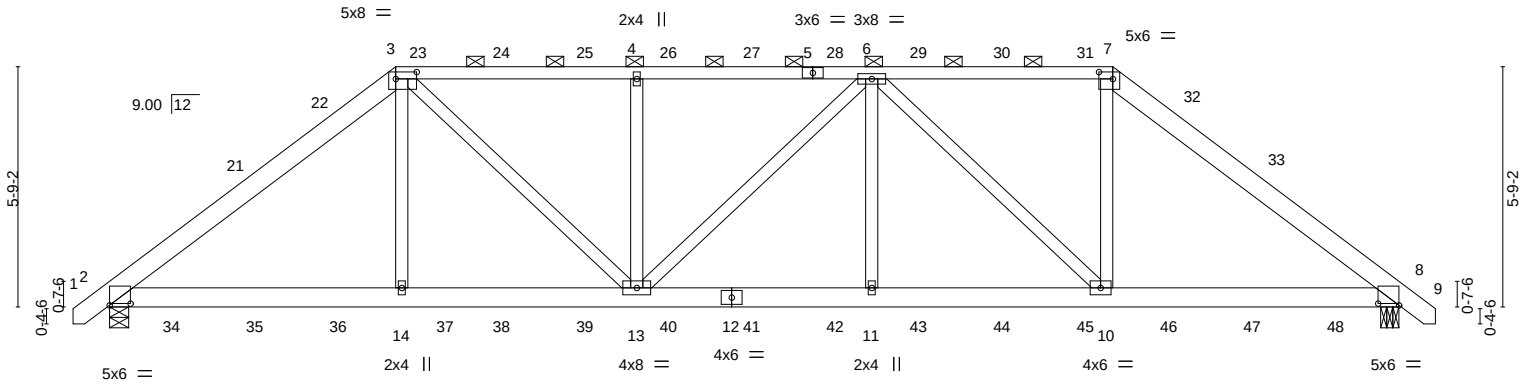
No.	Seal#	Job ID#	Truss Name	Date
69	I37223295	654049_130mph	PB05	5/28/19
70	I37223296	654049_130mph	PB06	5/28/19
71	I37223297	654049_130mph	PB07	5/28/19

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A01	HIP GIRDER	5	2	I37223227
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:19 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-IqHVQZNaDpIf0U?UbJjeKyU5YZp4kgTK04seTqzC?c2

-0-10-8	6-10-5	12-7-11	18-3-5	24-0-11	30-11-0	31-9-8
0-10-8	6-10-5	5-9-6	5-7-10	5-9-6	6-10-5	0-10-8

Scale = 1:55.2



6-10-5	12-7-11	18-3-5	24-0-11	30-11-0
6-10-5	5-9-6	5-7-10	5-9-6	6-10-5

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.53	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-
TOP CHORD 2x6 SP No.2 *Except* 3-5,5-7: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) 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
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) 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) except (jt=lb) 2=1462, 8=1457.
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

Continued on 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

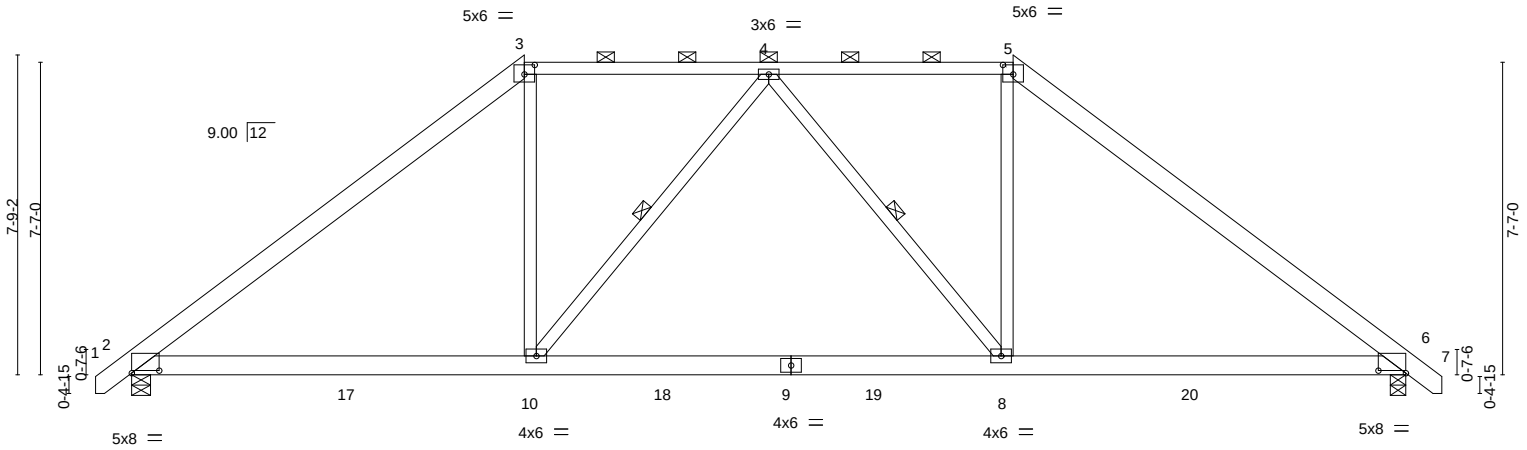
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-7=-60, 7-9=-60, 15-18=-20
   Concentrated Loads (lb)
   Vert: 21=-15(F) 23=-68(F) 24=-68(F) 25=-68(F) 26=-68(F) 27=-68(F) 28=-68(F) 29=-68(F) 30=-68(F) 31=-68(F) 33=-15(F) 34=-167(F) 35=-95(F) 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)

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A02	HIP	5	1	I37223228
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:21 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-EDPFrFOqlRYNFn9tjkl6PNZSiMSGCa?dTOLIYizC?c0

-0-10-8	9-6-5	15-5-8	21-4-11	30-11-0	31-9-8
0-10-8	9-6-5	5-11-3	5-11-3	9-6-5	0-10-8

Scale = 1:55.9



9-6-5	21-4-11	30-11-0
9-6-5	11-10-5	9-6-5

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

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	0.49	Vert(LL)	-0.14	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.23	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.14	10-13	>999	240	Weight: 198 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-9-10 max.): 3-5.
BOT CHORD	Rigid ceiling directly applied.
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)
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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) 2=275, 6=275.
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

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A03	Hip	5	1	I37223229
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:22 2019 Page 1

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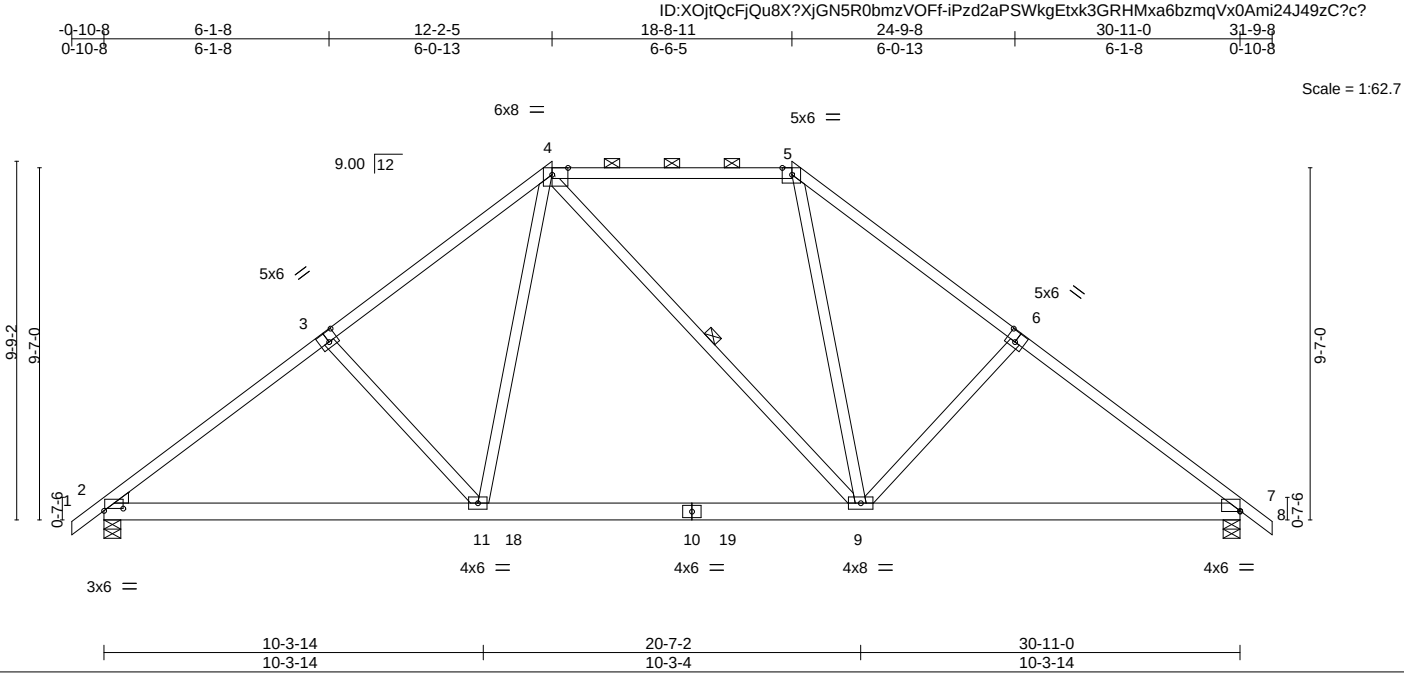

Plate Offsets (X,Y)-- [2:0-6-4,0-0-12], [3:0-3-0,0-3-4], [4:0-5-3,Edge], [5:0-3-3,Edge], [6:0-3-0,0-3-4], [7:0-0-0,0-0-4]

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	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.23	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.06	11-14	>999	240	Weight: 195 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
4-9: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-8-11 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-9

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)

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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) 2=305, 7=305.
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.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A04	PIGGYBACK BASE	67	1	I37223230 Job Reference (optional)

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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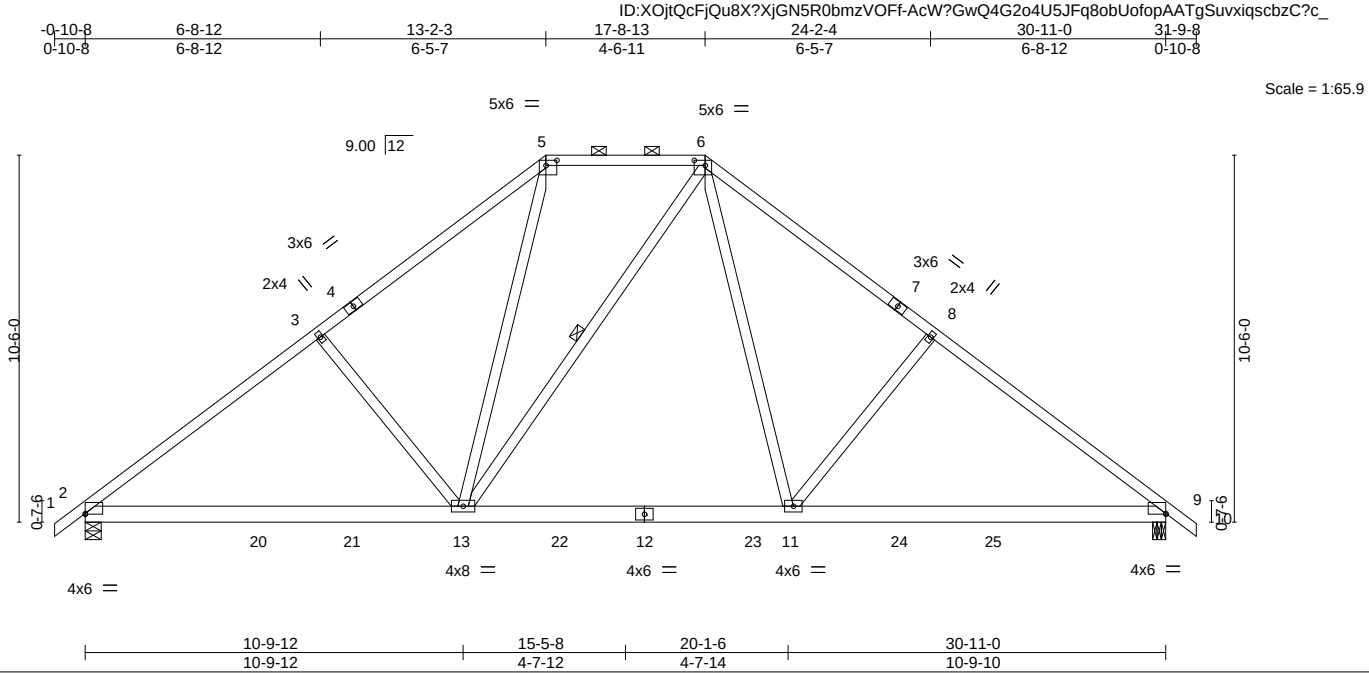

Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12], [9:0-0-0,0-0-4]

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-8 max.): 5-6.
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)
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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) All bearings are assumed to be User Defined crushing capacity of 425 psi.
7) 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=312.
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

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A04A	PIGGYBACK BASE	16	1	I37223231 Job Reference (optional)

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_oZ8MVCO?JzgUzC?by

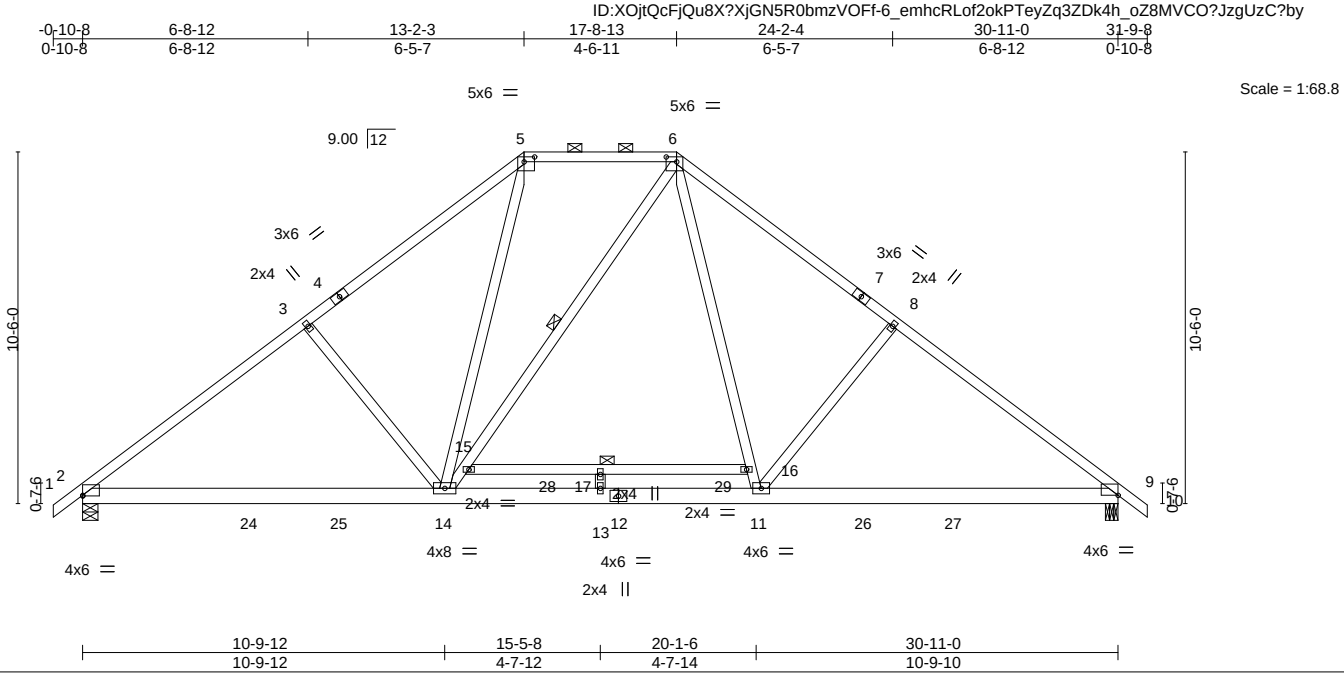

Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12]

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

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-5,6-7: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 15-16: 2x4 SP No.2

BRACING-
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 Rigid ceiling directly applied or 10-0-0 oc bracing.
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)
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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) All bearings are assumed to be User Defined crushing capacity of 425 psi.
7) 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.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or 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.

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

May 28,2019

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A05	PIGGYBACK BASE	33	1	I37223232 Job Reference (optional)

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-bBC8uySzZzAfLZ2qVHLI6QHI2NA5tpZMdf2WCwzC?bx

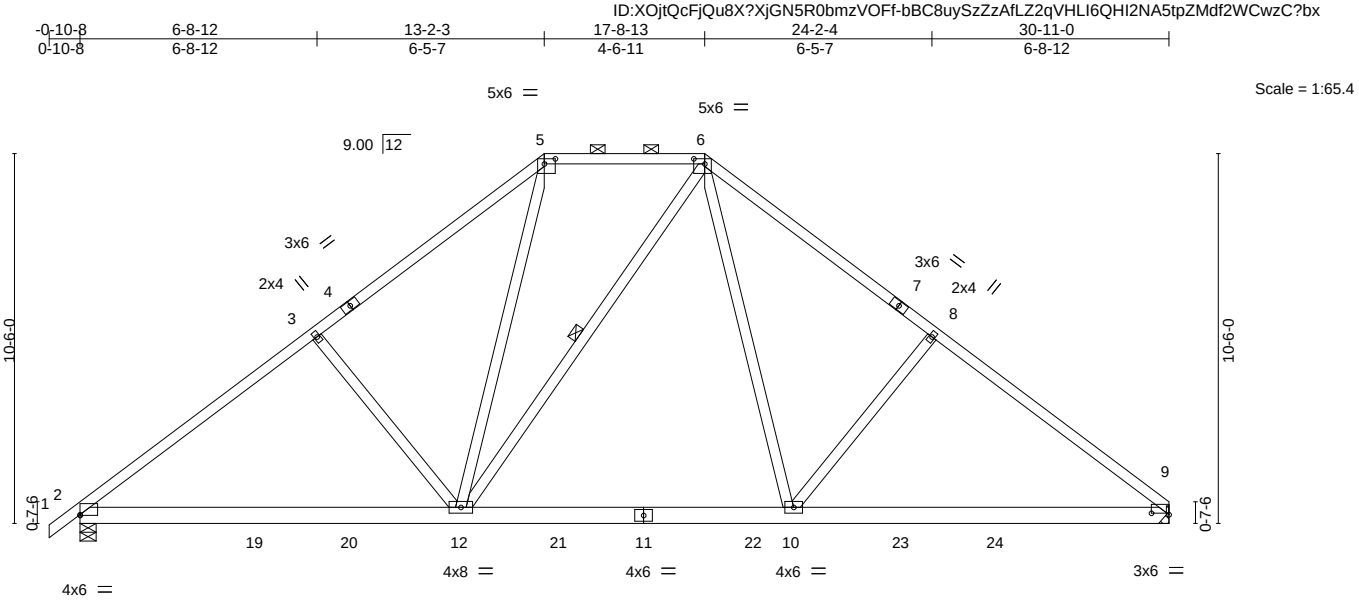

Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12], [9:0-6-0,0-0-8]

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-8 max.): 5-6.
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)
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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) except (jt=lb) 2=312, 9=283.
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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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A05A	PIGGYBACK BASE	35	1	I37223233
					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 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-XZKuJeUD5aQNbsBDdiNmBrMdUBqVLiQe4zXdHpzC?bv

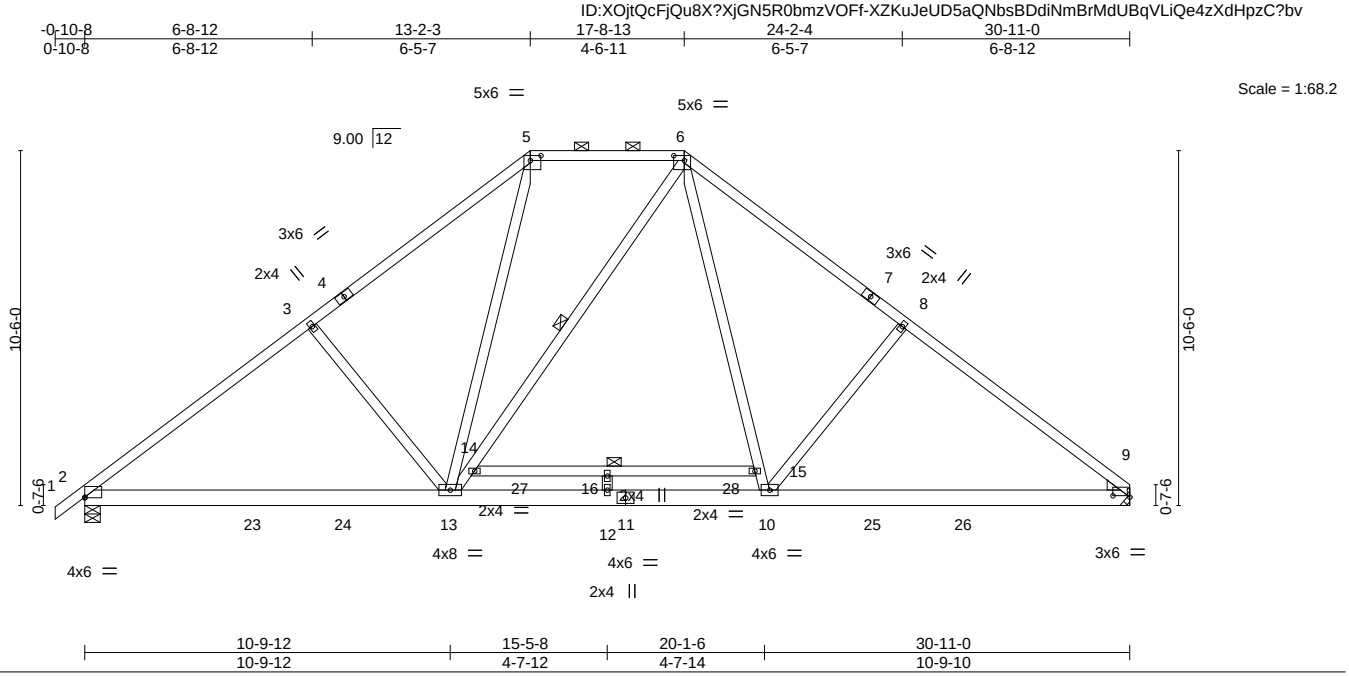

Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12], [9:0-6-0,0-0-8]

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	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.20	10-22	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.07	10-22	>999	240	Weight: 210 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-8 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 14-15, 6-13

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)

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 exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) except (jt=lb) 2=312, 9=283.
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.

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

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Continued on page 2

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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

Uniform Loads (plf)

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A06	Piggyback Base Supported Gable	10	1	I37223234 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:XOjtQcFjQu8X?XjGN5R0bmzVOFf-?muHW_UrsuYED0mPBPv?k3vu5bJk4DHoJdHApFzC?bu

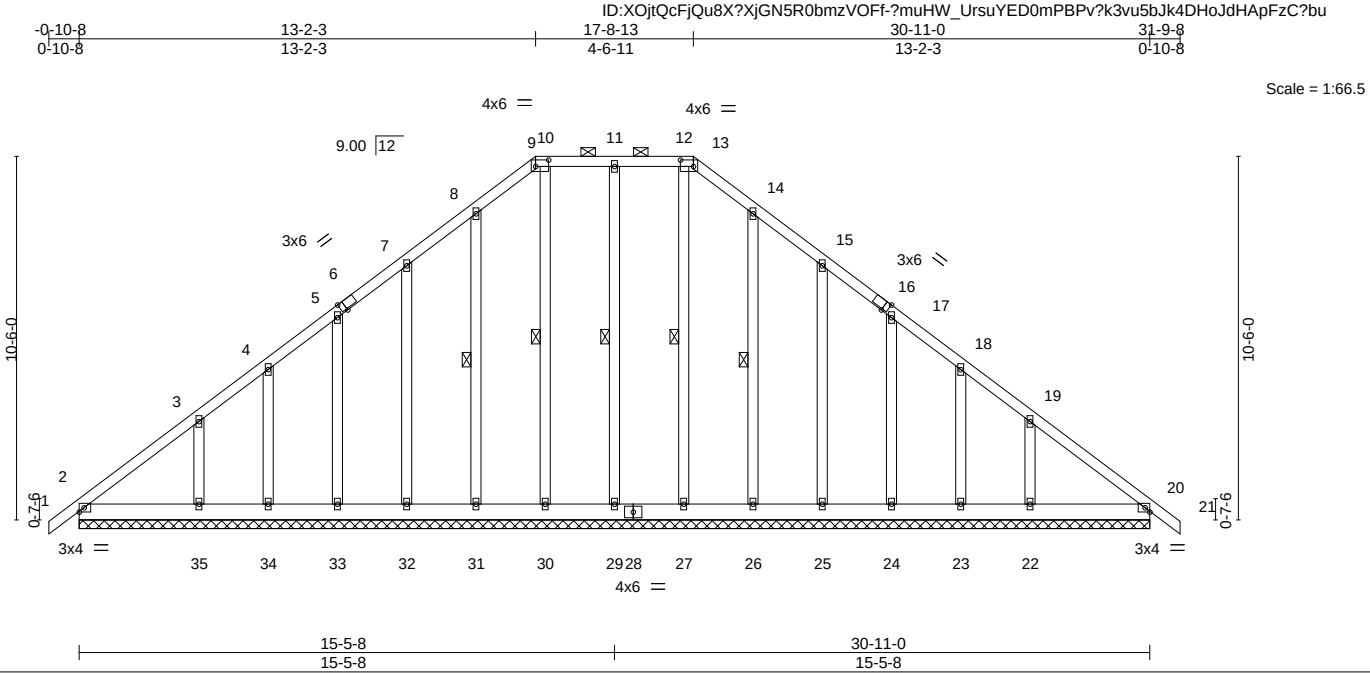

Plate Offsets (X,Y)-- [6:0-1-13,Edge], [9:0-0-0,0-1-12], [9:0-4-8,0-2-4], [10:0-1-12,0-0-0], [12:0-1-12,0-0-0], [13:0-4-8,0-2-4], [13:0-0-0,0-1-12], [16:0-1-13,Edge]

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	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	21	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 257 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 9-13.
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)
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
11) 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.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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.

May 28,2019

ENGINEERING BY
TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A07	PIGGYBACK BASE	5	1	I37223235 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:32 2019 Page 1
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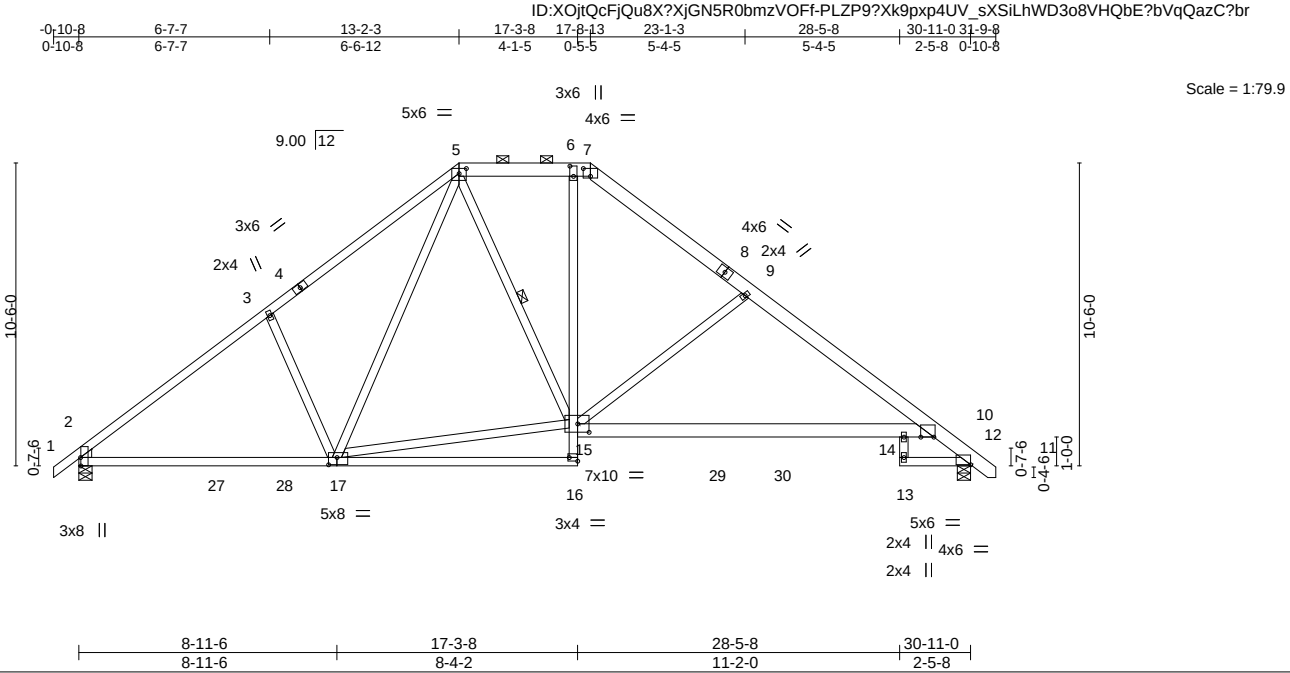

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-0-8,0-3-12], [2:0-0-4,0-0-5], [5:0-3-0,0-2-2], [6:0-4-4,0-1-8], [7:0-3-0,0-3-4], [10:0-5-7,0-0-0], [15:0-4-12,0-3-8], [16:Edge,0-1-8], [17:0-3-8,0-3-0]

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)
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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) 11=307, 2=312.
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

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A08	PIGGYBACK BASE	4	1	I37223236 Job Reference (optional)

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_hQBXJnfMzyUAQ6cZPcqwlK9XTv_xUSzC?bp

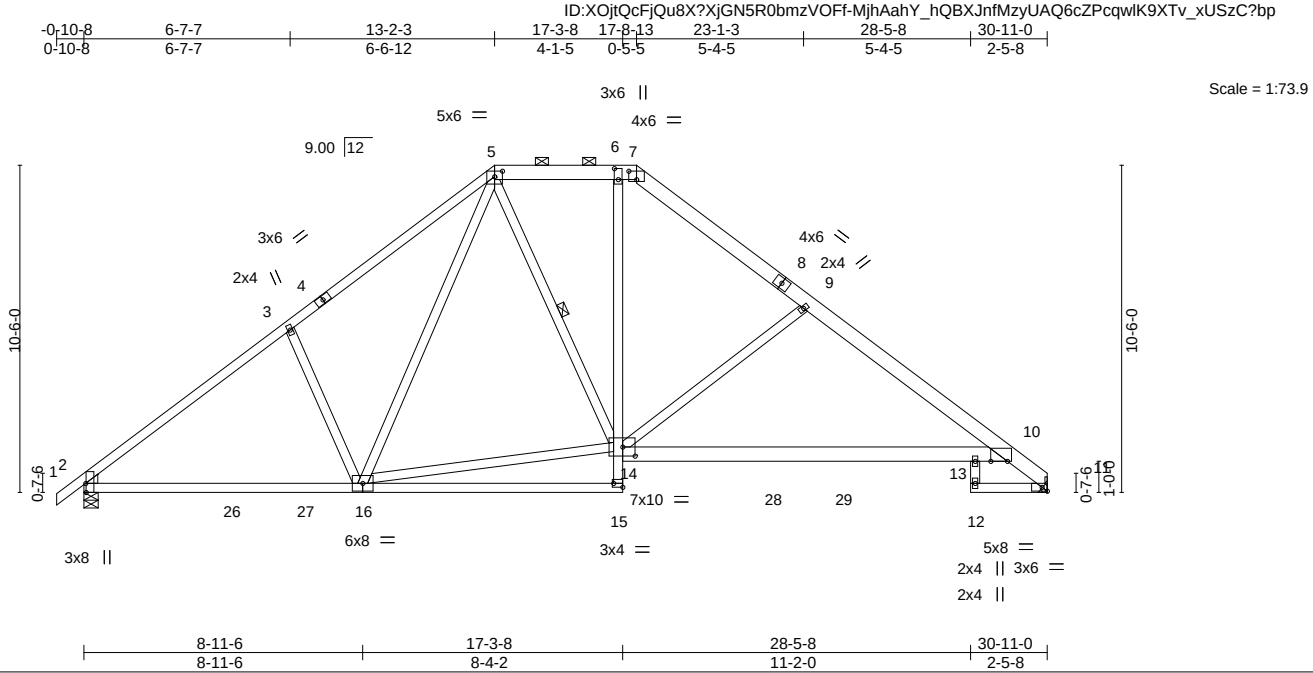

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-0-8,0-3-12], [2:0-0-4,0-0-5], [5:0-3-0,0-2-2], [6:0-4-4,0-1-8], [7:0-3-0,0-3-4], [10:0-6-7,0-0-0], [11:0-2-0,Edge], [14:0-4-12,0-3-8], [15:Edge,0-1-8]

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-
TOP CHORD 2x4 SP No.2 *Except* 5-7,7-8: 2x6 SP No.2, 8-11: 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except* 10-14: 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 5-14

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)
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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi, Joint 11 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) except (jt=lb) 11=283, 2=312.
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.

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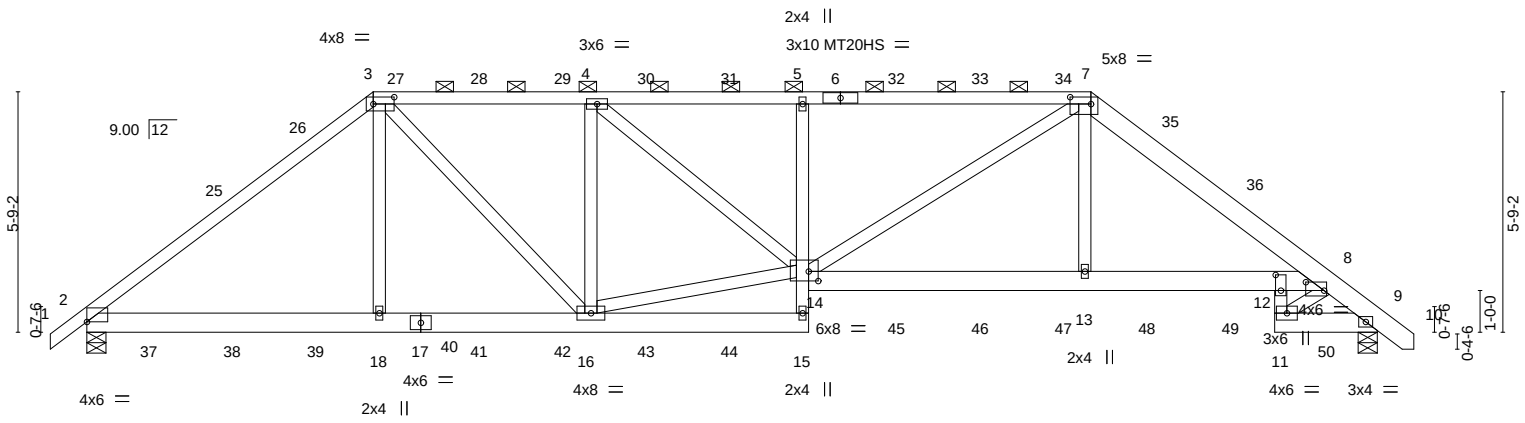
Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A09	HIP GIRDER	1	2	I37223237
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:38 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-EUwgP3bVkfhyoPy8CoZ6bymLoDCAhGG7OXy9dDzC?bl

-0-10-8	6-10-5	12-0-15	17-3-8	24-0-11	28-5-8	30-11-0	31-9-8
0-10-8	6-10-5	5-2-9	5-2-9	6-9-3	4-4-13	2-5-8	0-10-8

Scale = 1:55.2



6-10-5	12-0-15	17-3-8	24-0-11	28-5-8	30-11-0
6-10-5	5-2-9	5-2-9	6-9-3	4-4-13	2-5-8

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]

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	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.20	12-13	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.11	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 414 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 7-10: 2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 5-15: 2x4 SP No.2, 8-14: 2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 12-13

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)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) 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
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be User Defined crushing capacity of 565 psi.
10) 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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Continued on page 2

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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

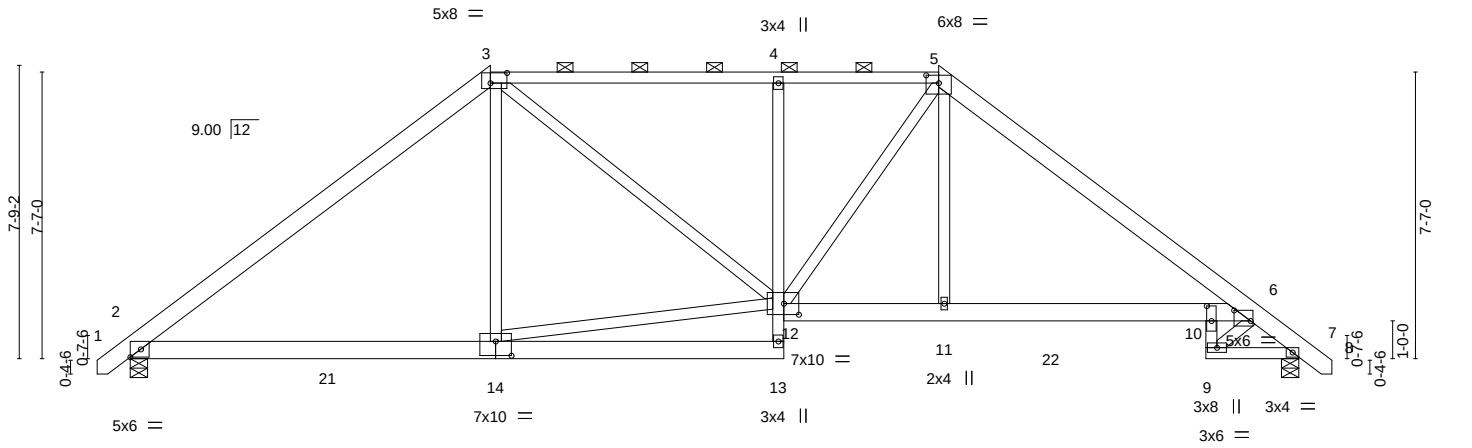
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-7=-60, 7-10=-60, 15-19=-20, 12-14=-20, 11-22=-20
   Concentrated Loads (lb)
   Vert: 15=-92(F) 5=-8(F) 8=-167(F) 25=-15(F) 27=-68(F) 28=-68(F) 29=-68(F) 30=-68(F) 31=-68(F) 32=-8(F) 33=-8(F) 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)

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A10	HIP	1	1	I37223238
					Job Reference (optional)

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-At2RqkdlGGxg1i6WKDbagNsfy1vM98lQrrRGi6zC?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



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

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]

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-

TOP CHORD 2x6 SP No.2 *Except*
3-5: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
4-13,7-9: 2x4 SP No.2, 6-12: 2x6 SP DSS
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-7-5 max.): 3-5.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 10-11

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)

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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) 7=274, 2=274.
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.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A11	HIP	1	1	I37223239
					Job Reference (optional)

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

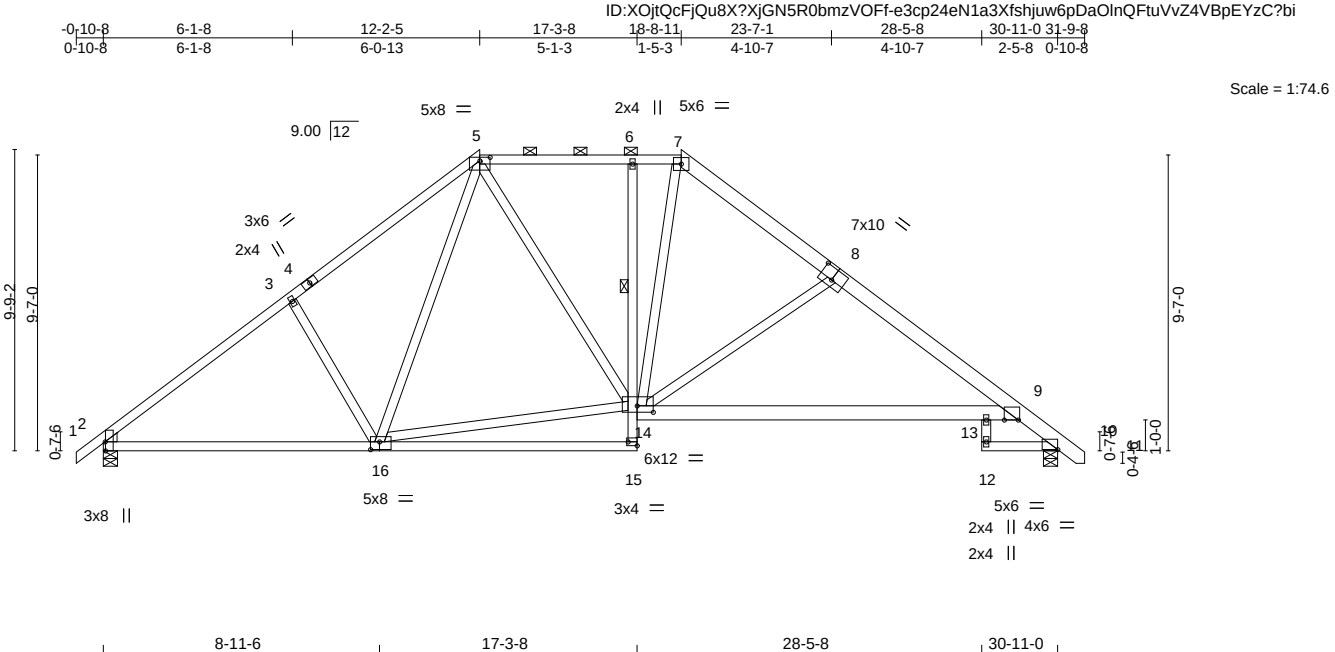

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-0-8,0-3-12], [2:0-0-4,0-0-5], [5:0-4-0,0-1-6], [8:0-5-0,0-4-8], [9:0-5-7,0-0-0], [14:0-6-4,0-2-8], [15:Edge,0-1-8], [16:0-3-8,0-3-0]

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)	-0.25	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.61	13-14	>610	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.24	13-14	>999	240	Weight: 217 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
7-8: 2x6 SP No.2, 8-11: 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
9-14: 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 (5-1-9 max.): 5-7.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-14

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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) 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.

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A24	Piggyback Base	12	1	I37223240
					Job Reference (optional)

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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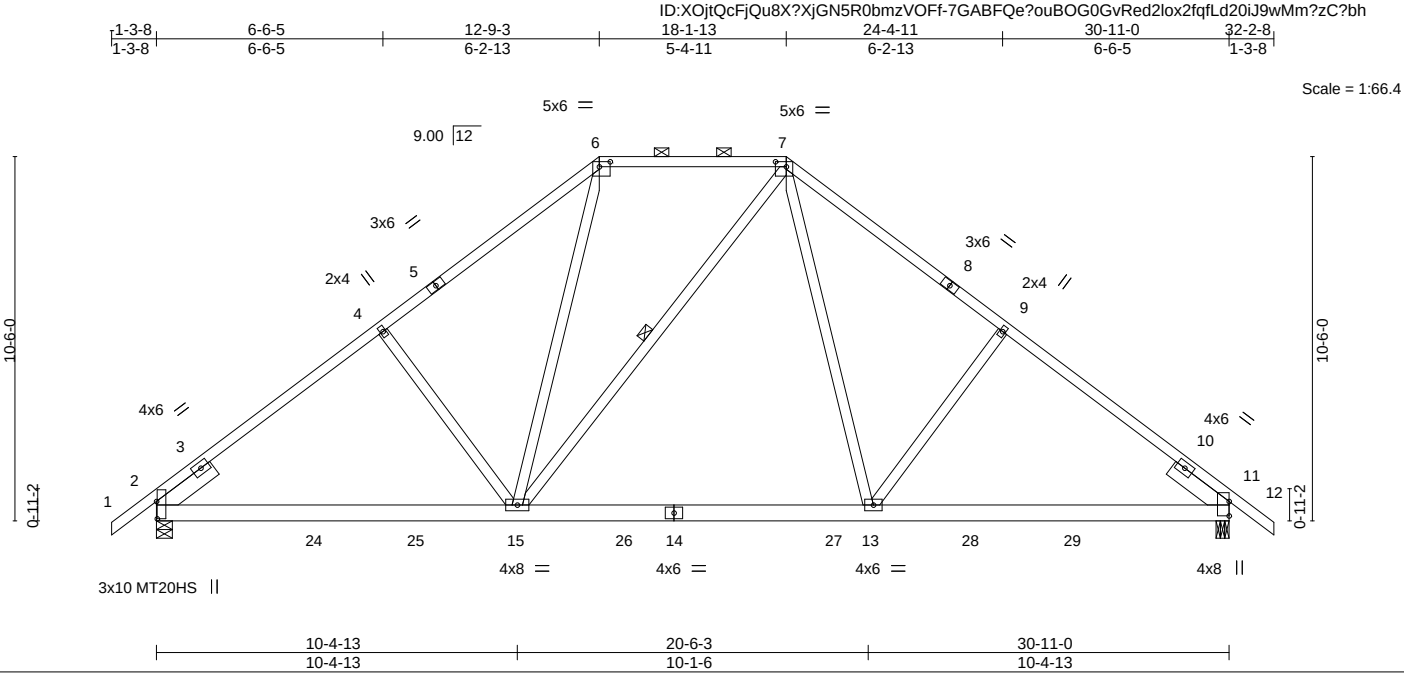

Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [6:0-3-12,0-1-12], [7:0-3-12,0-1-12]

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)	-0.14	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.22	13-15	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.05	13-15	>999	240	Weight: 209 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	7-15: 2x4 SP No.2
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, except
	2-0-0 oc purlins (5-6-9 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 7-15

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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) 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.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A24A	PIGGYBACK BASE	2	1	I37223241 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:44 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-3eIyg6gFKVR6WKQHZ3gWqD0L6eHI5y??mTPTrtzC?bf

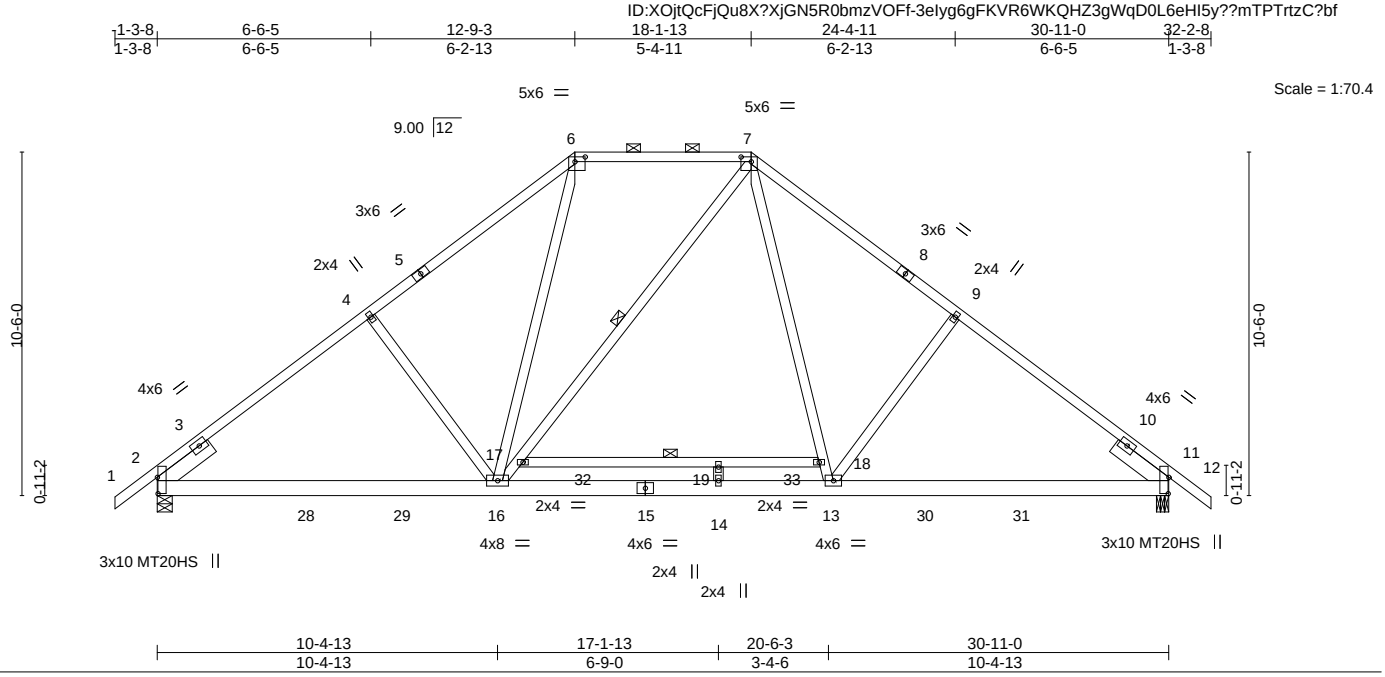

Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [6:0-3-12,0-1-12], [7:0-3-12,0-1-12], [11:0-6-0,0-0-4]

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

LUMBER-

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

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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) 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

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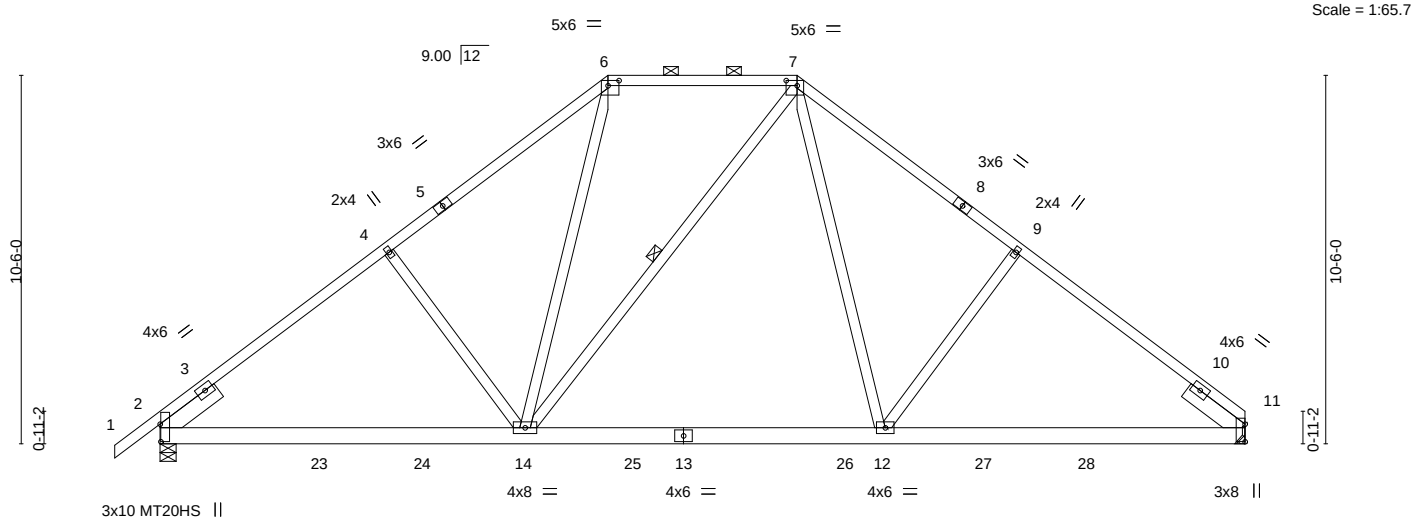
Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A25	PIGGYBACK BASE	5	1	I37223242
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:45 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-XrsKtShu5pZz7T?U7mBlNQZZw2gxqOe9?790NJzC?be

1-3-8	6-6-5	12-9-3	18-1-13	24-4-11	30-11-0
1-3-8	6-6-5	6-2-13	5-4-11	6-2-13	6-6-5

Scale = 1:65.7



10-4-13	17-1-13	20-6-3	30-11-0
10-4-13	6-9-0	3-4-6	10-4-13

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]

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	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.22	12-14	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.05	12-21	>999	240	Weight: 207 lb	FT = 20%

LUMBER-

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

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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) 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.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A25A	PIGGYBACK BASE	5	1	I37223243
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:47 2019 Page 1

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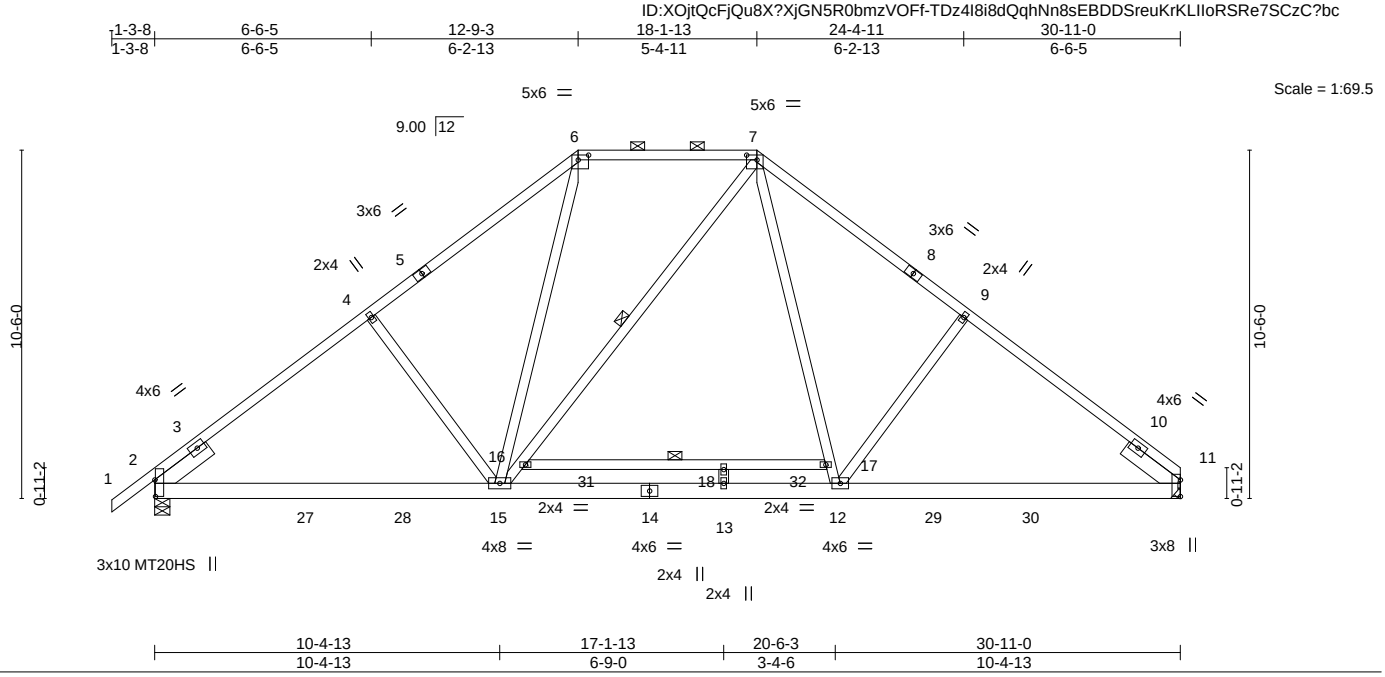

Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [6:0-3-12,0-1-12], [7:0-3-12,0-1-12]

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-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 7-15,16-17: 2x4 SP No.2
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, except 2-0-0 oc purlins (5-6-9 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 7-15, 16-17

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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) 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

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A26	GABLE	2	1	I37223244
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:49 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-Pc5rjpkO914Oc5IFMcGhXGkJBf7PmGgkwk7EW5zC?ba

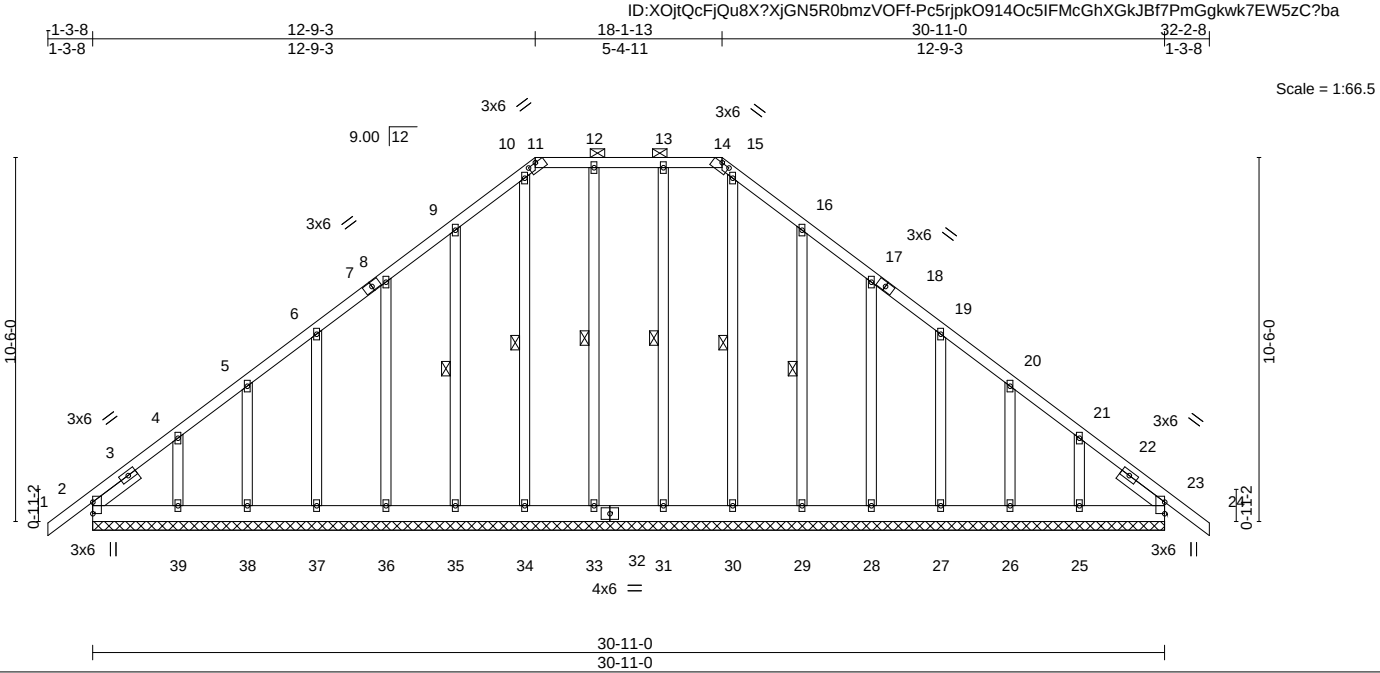

Plate Offsets (X,Y)-- [11:0-3-0,0-0-1], [14:0-3-0,0-0-1], [15:0-0-0,0-0-0], [16:0-0-0,0-0-0], [17:0-0-0,0-0-0], [19:0-0-0,0-0-0]

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)	-0.00	24	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	24	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	23	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 270 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 1-7-2, Right 2x4 SP No.2 1-7-2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-14.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
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-
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
11) 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.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Edenton, NC 27932

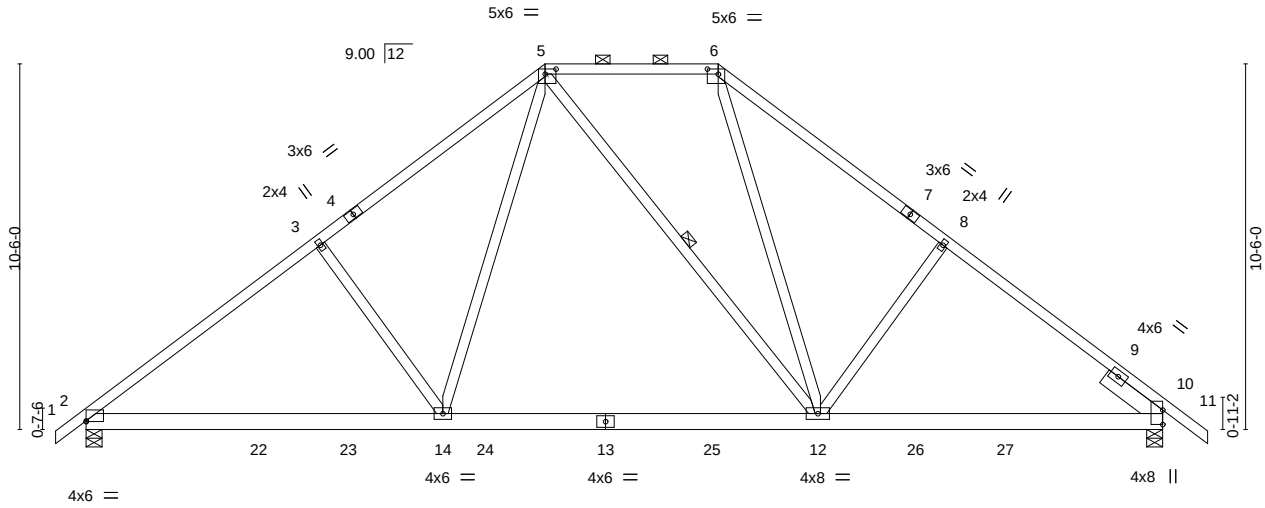
Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A34	PIGGYBACK BASE	12	1	I37223245
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:51 2019 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-M_Db8VlegeK6rPSeT1I9dhpa2Si5E5D1N2cLbzzC?bY

-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



10-2-15	14-2-3	21-1-1	30-11-0
10-2-15	3-11-4	6-10-15	9-9-15

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]

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

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 5-12: 2x4 SP No.2
SLIDER	Right 2x6 SP No.2 1-11-12

BRACING-

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

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-

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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) 2=312, 10=321.
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.

May 28,2019

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A34A	PIGGYBACK BASE	2	1	I37223246
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:53 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-INKLZBnvCGaq5ic0bSKdi6uuCGLKi06KqM5SfszC?bW

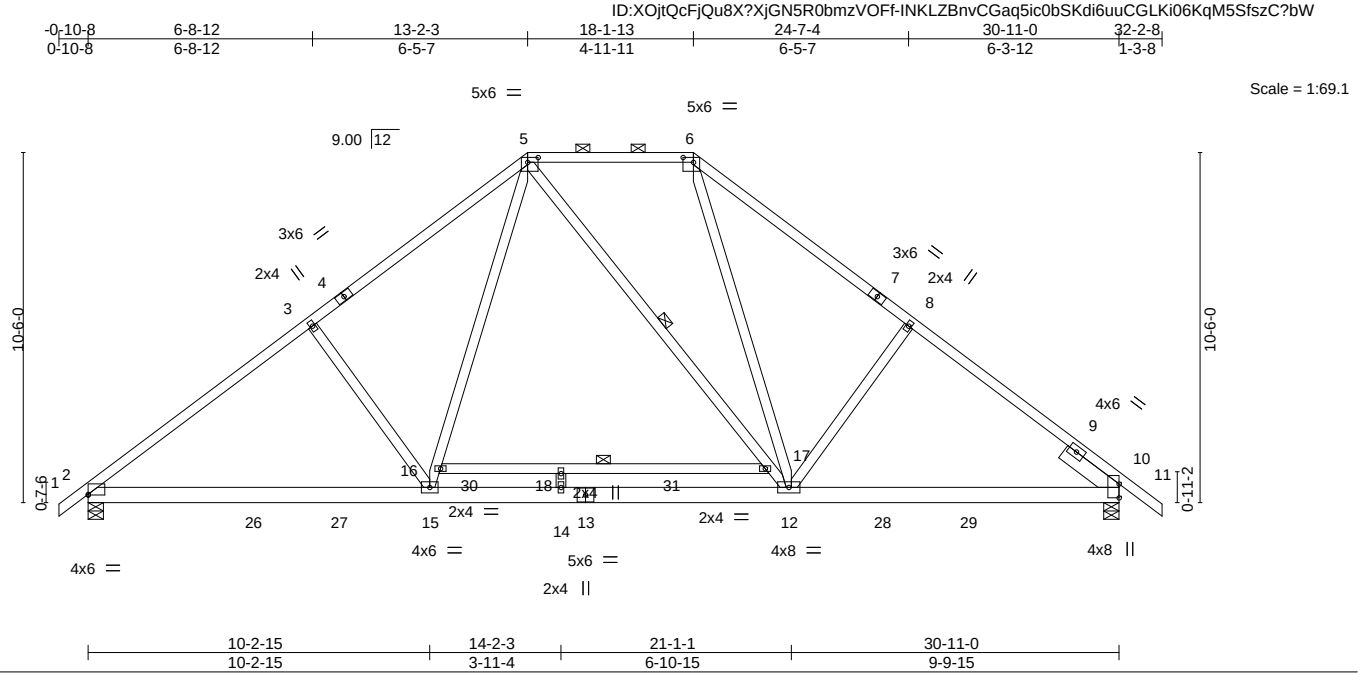

Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12]

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-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
5-12,16-17: 2x4 SP No.2
SLIDER Right 2x6 SP No.2 1-11-12

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

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-
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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) 2=312, 10=321.
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.

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

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A35	Piggyback Base	5	1	I37223247 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:02:54 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-mZukmXoXzZihisBC89rsEKR5jgkpRT0T30q?BIzC?bV

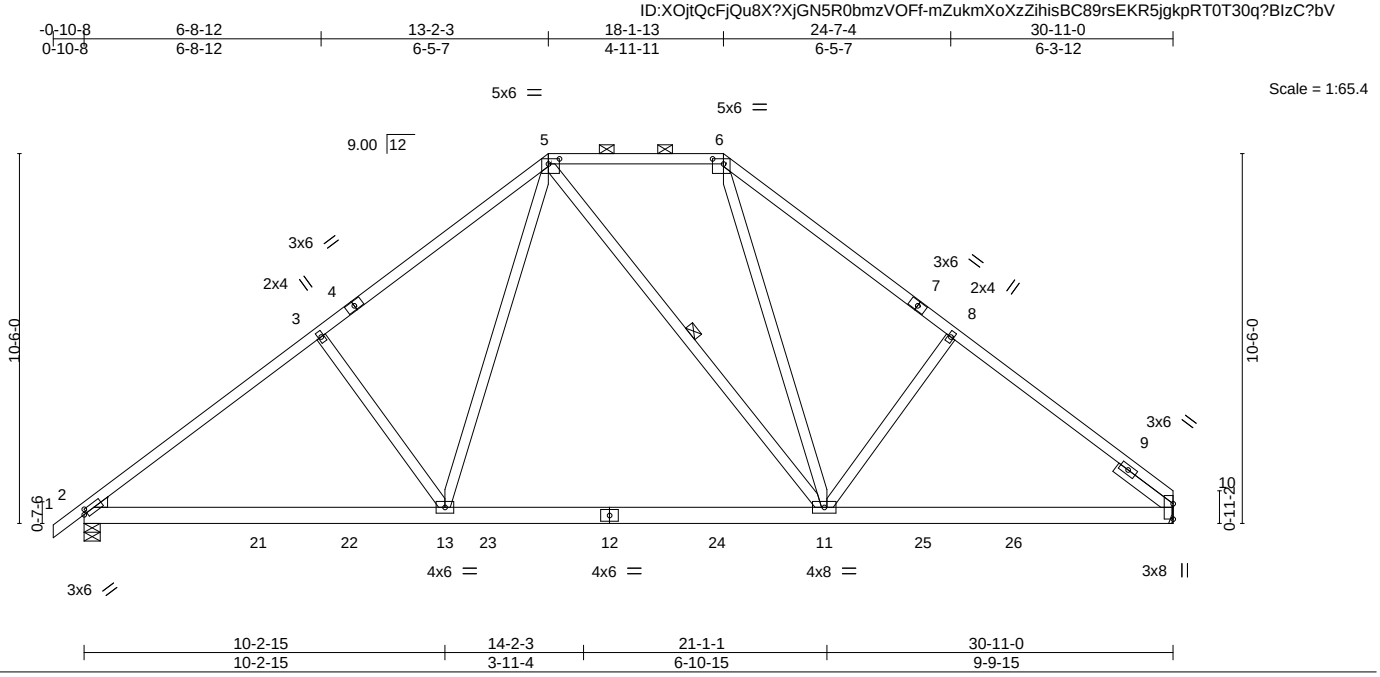

Plate Offsets (X,Y)-- [2:0-1-2,0-1-8], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12]

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	0.47	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-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
5-11: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

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

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-
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) 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, with BCDL = 10.0psf.
6) All bearings are assumed to be User Defined crushing capacity of 565 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) 10 except (jt=lb) 2=115.
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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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A35A	Piggyback Base	5	1	I37223248 Job Reference (optional)

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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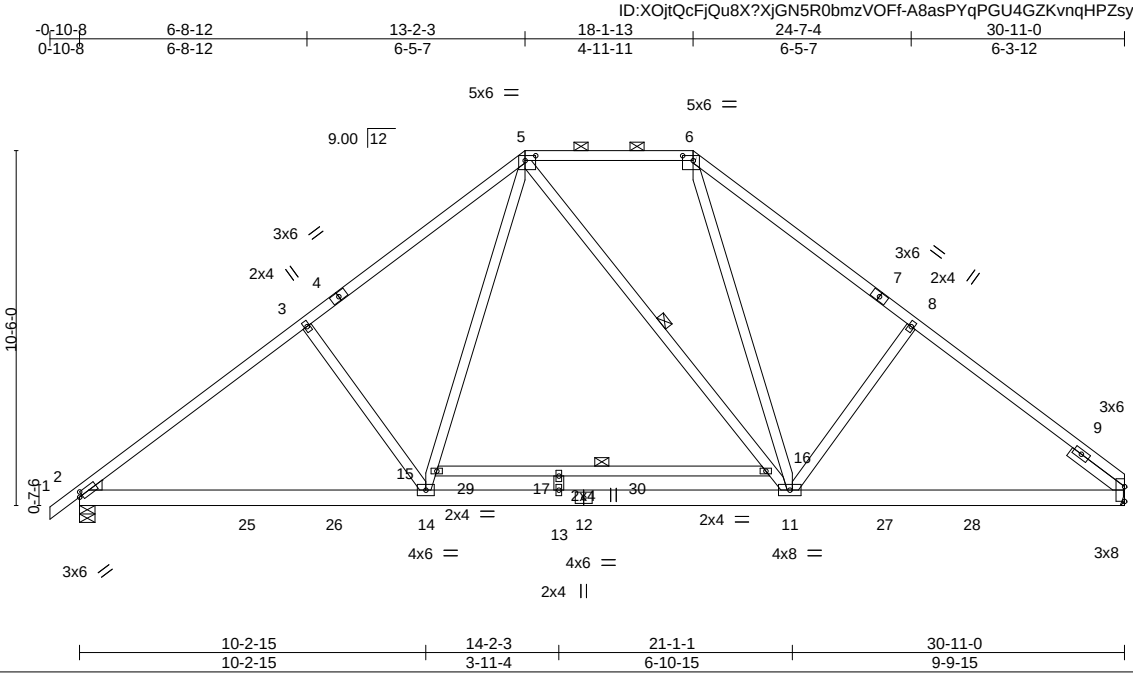

Plate Offsets (X,Y)-- [2:0-1-2,0-1-8], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12]

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-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
5-11,15-16: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-6-1 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
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-
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) 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, with BCDL = 10.0psf.
6) All bearings are assumed to be User Defined crushing capacity of 565 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) 10 except (jt=lb) 2=115.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
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

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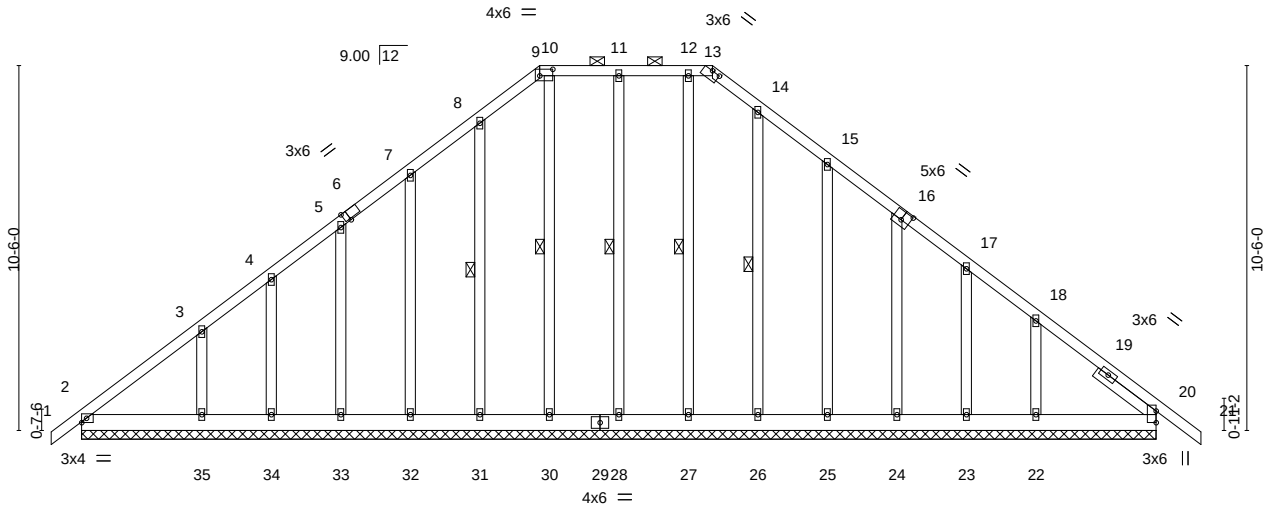
Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	A36	GABLE	2	1	I37223249
					Job Reference (optional)

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_pd3AxiR1xN80rhYO6n5DDIYmtWzC?bQ

-0-10-8 13-2-3 18-1-13 30-11-0 32-2-8
0-10-8 13-2-3 4-11-11 12-9-3 1-3-8

Scale = 1:66.3



14-2-3 30-11-0
14-2-3 16-8-13

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]

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	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	21	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 263 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 2-1-9

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 9-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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-
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
11) 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.
12) 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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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	B01	GABLE	3	1	I37223250
					Job Reference (optional)

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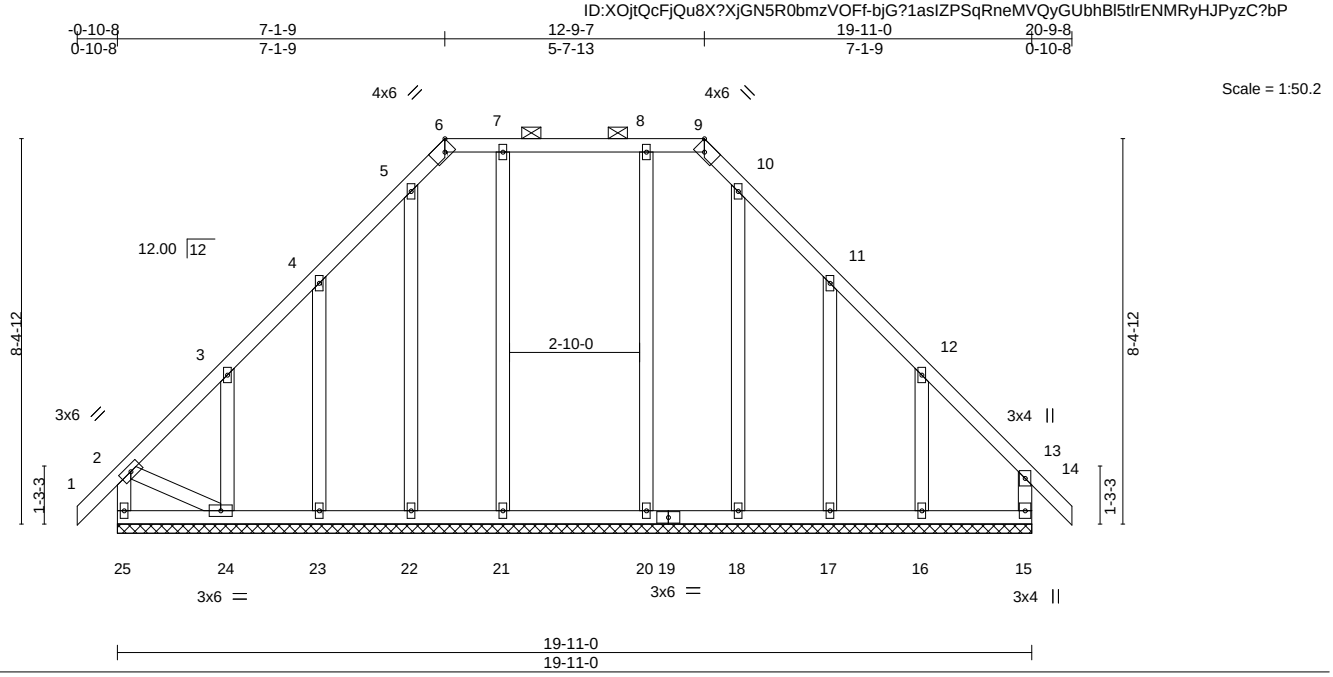


Plate Offsets (X,Y)-- [6:0-2-8,Edge], [9:0-2-8,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	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-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 2-24: 2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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)

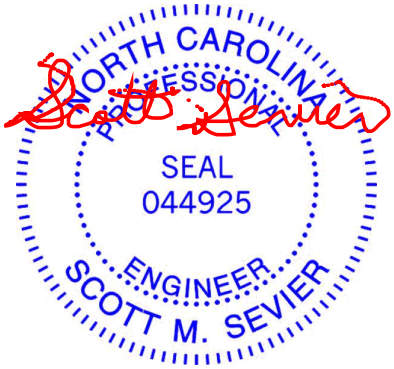
Max Grav All reactions 250 lb or less at joint(s) 15, 22, 23, 18, 17, 16 except 25=315(LC 20), 21=265(LC 22), 24=293(LC 19), 20=263(LC 22)

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)

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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) All bearings are assumed to be User Defined crushing capacity of 565 psi.
12) 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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28,2019

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	B02	HIP	3	1	I37223251
					Job Reference (optional)

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-X6NlSGuY51jYg5olcr_kZ0mSNuSlJ7pfvGmQTqzC?bN

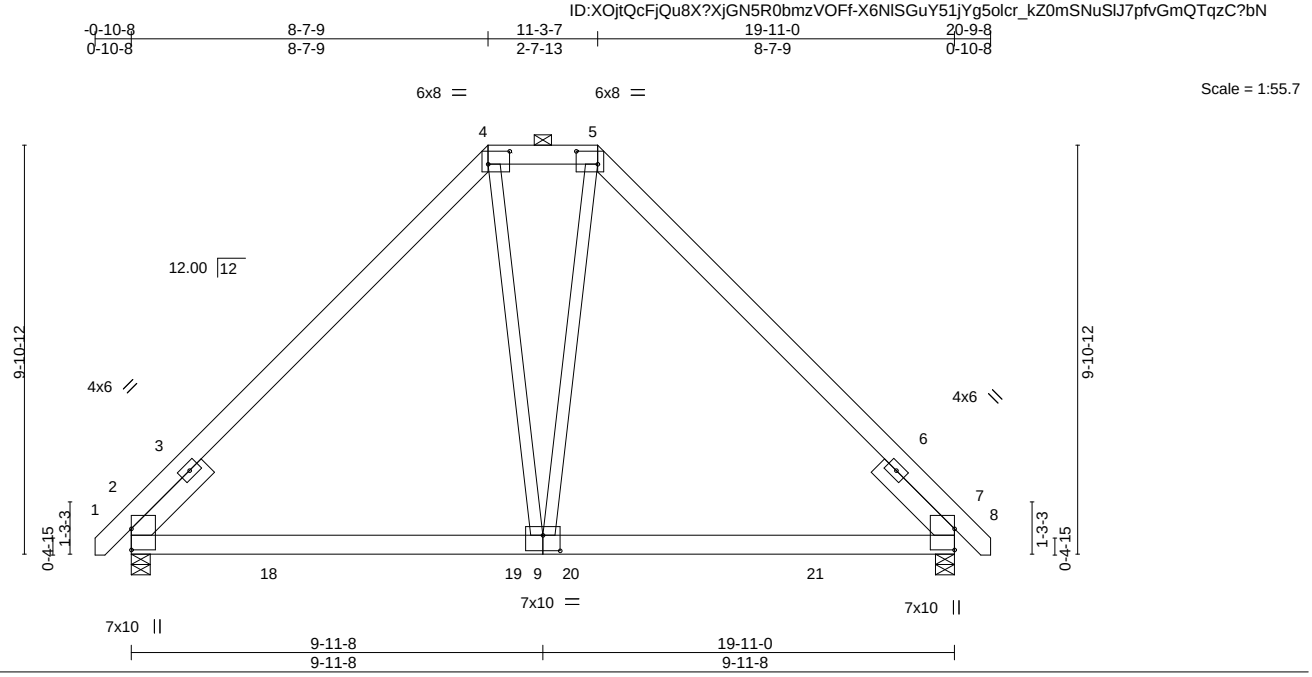


Plate Offsets (X,Y)-- [4:0-6-4,0-3-12], [5:0-6-4,0-3-12], [9:0-5-0,0-4-8]

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	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.13	9-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	9-12	>999	240	Weight: 156 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-6-0, Right 2x6 SP No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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)
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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) 2=183, 7=183.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or 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

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	B03	COMMON	13	1	I37223252
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:03 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-?lx7fcvAsKrPIFNxAYWz6DJe3Ipm2RTo8wWz0HzC?bM

-0-10-8 5-11-9 9-11-8 13-11-7 19-11-0 20-9-8
0-10-8 5-11-9 3-11-15 3-11-15 5-11-9 0-10-8

Scale = 1:66.5

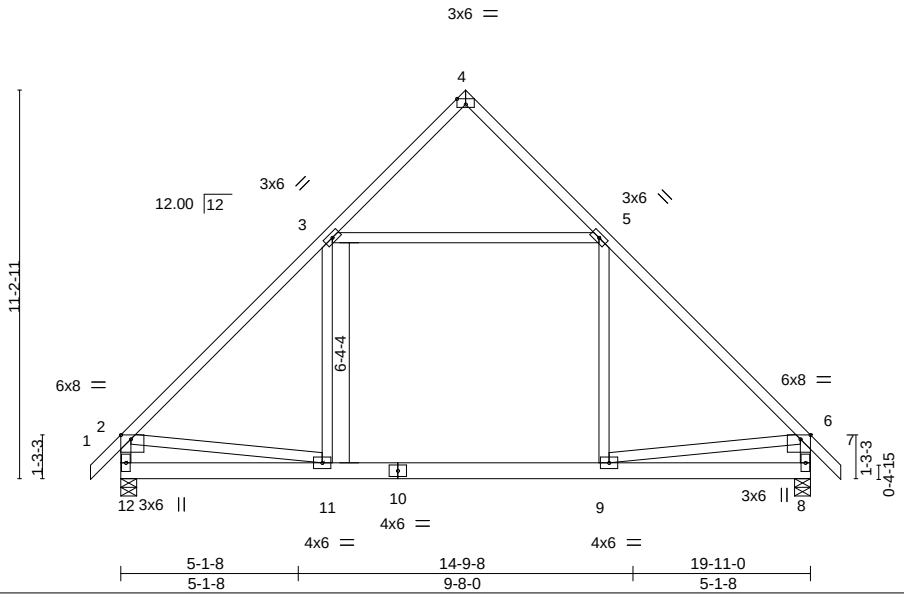


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [4:0-3-0,Edge], [6:0-3-8,Edge]

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	0.43	Vert(LL)	0.21	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.21	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 142 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
2-12,6-8: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.

REACTIONS. (lb/size) 12=846/0-5-8, 8=846/0-5-8
Max Horz 12=409(LC 11)
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)
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, with BCDL = 10.0psf.
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) 12=189, 8=189.
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

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	B04	GABLE	6	1	I37223253
					Job Reference (optional)

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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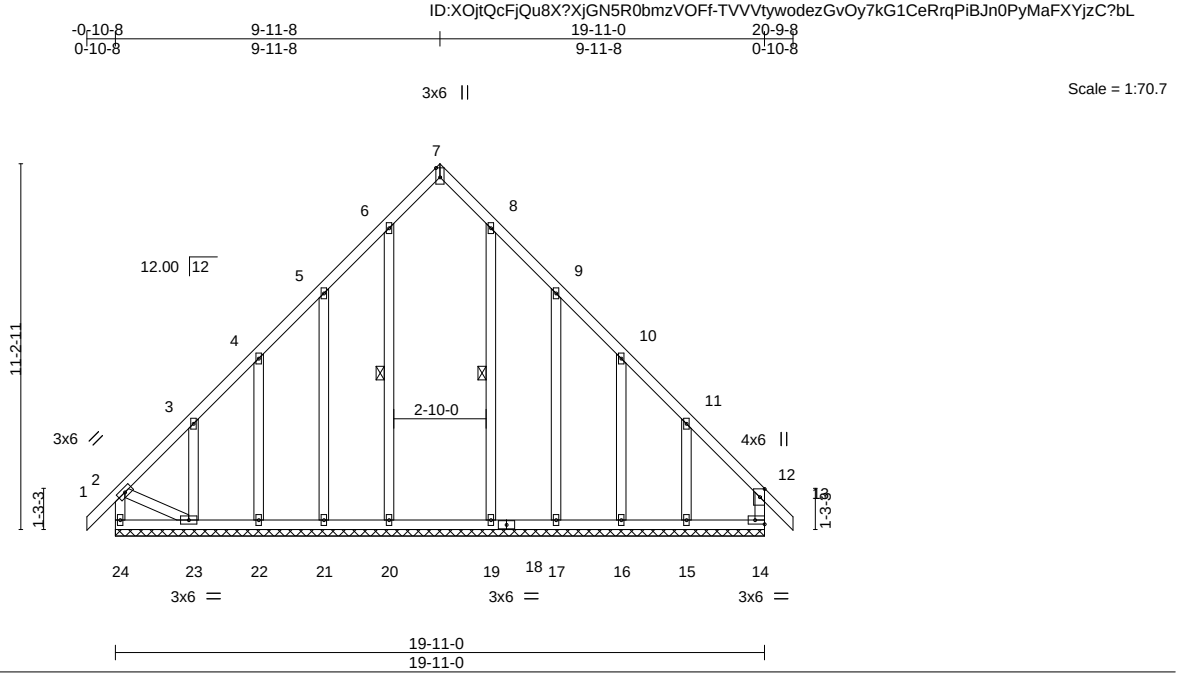

Plate Offsets (X,Y)-- [7:0-3-7,Edge], [12:0-3-0,0-1-12], [14:Edge,0-1-8]

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	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.00	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 154 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 2-23: 2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-6-11 oc bracing.
WEBS	1 Row at midpt 6-20, 8-19

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)
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
11) 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.
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.

May 28,2019

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	B05	COMMON	2	1	I37223254
					Job Reference (optional)

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

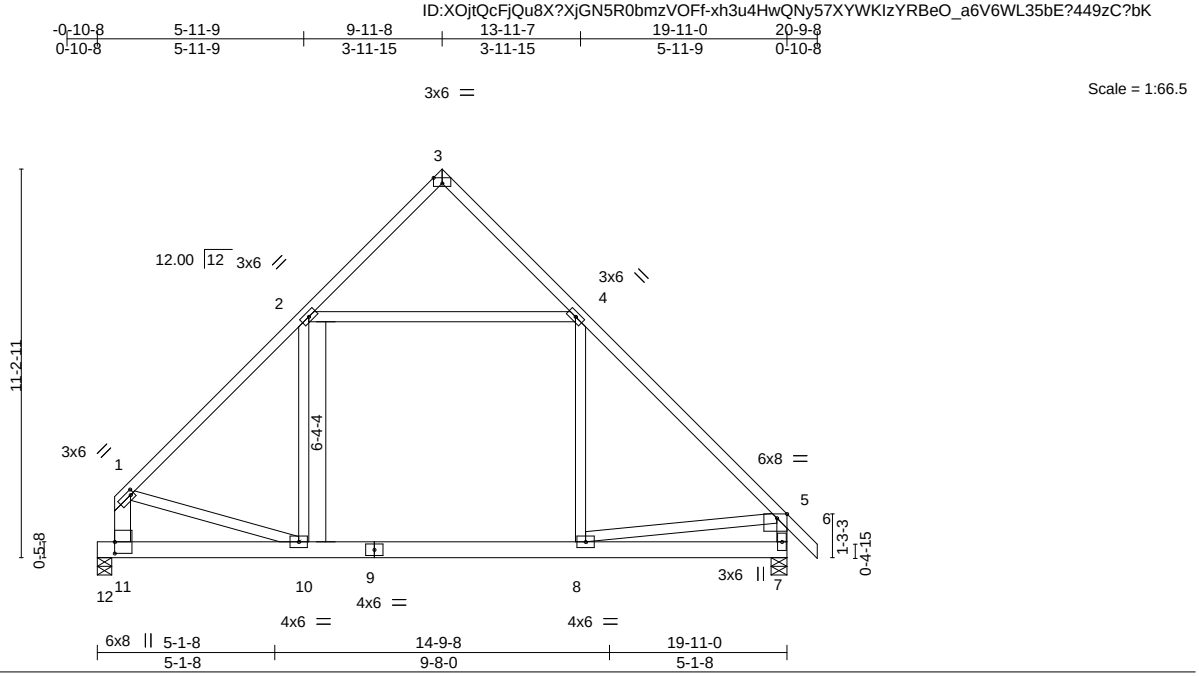

Plate Offsets (X,Y)-- [1:0-1-4,0-1-8], [3:0-3-0,Edge], [5:0-3-8,Edge], [11:0-4-0,0-0-0]

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	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.21	10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.01	7	n/a	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)
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, with BCDL = 10.0psf.
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) 12=167, 7=188.
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

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	B23	COMMON	2	1	I37223255
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:08 2019 Page 1
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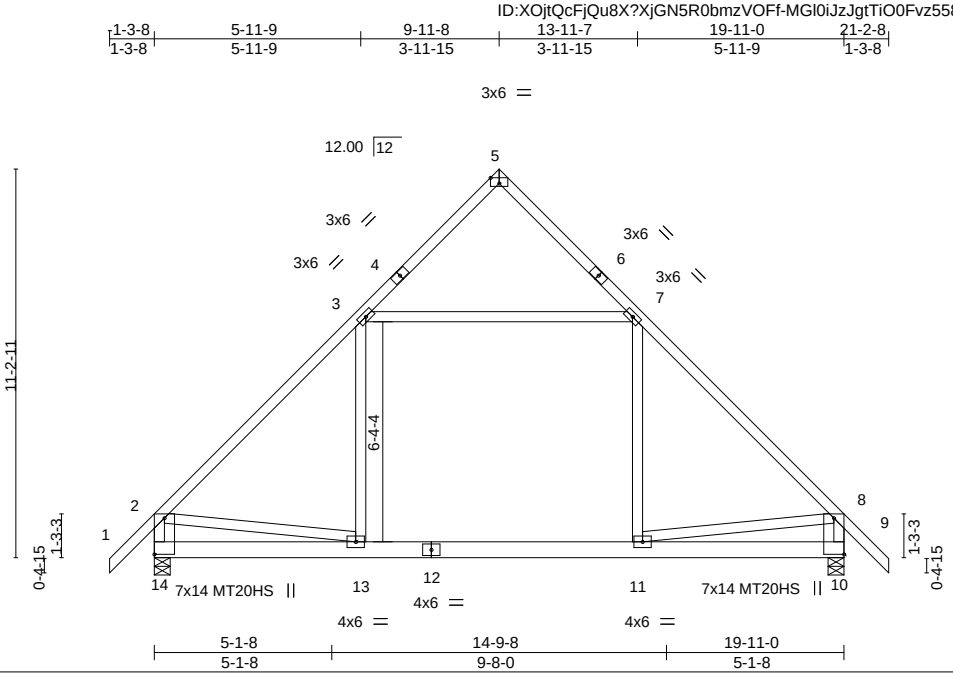

Plate Offsets (X,Y)-- [5:0-3-0,Edge], [10:Edge,0-3-8], [10:0-0-0,0-1-12], [14:0-0-0,0-1-12], [14:Edge,0-3-8]

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-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
2-14,8-10: 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 8-3-13 oc bracing.

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)
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) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) 14=203, 10=203.
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

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	B24	GABLE	1	1	I37223256
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:09 2019 Page 1
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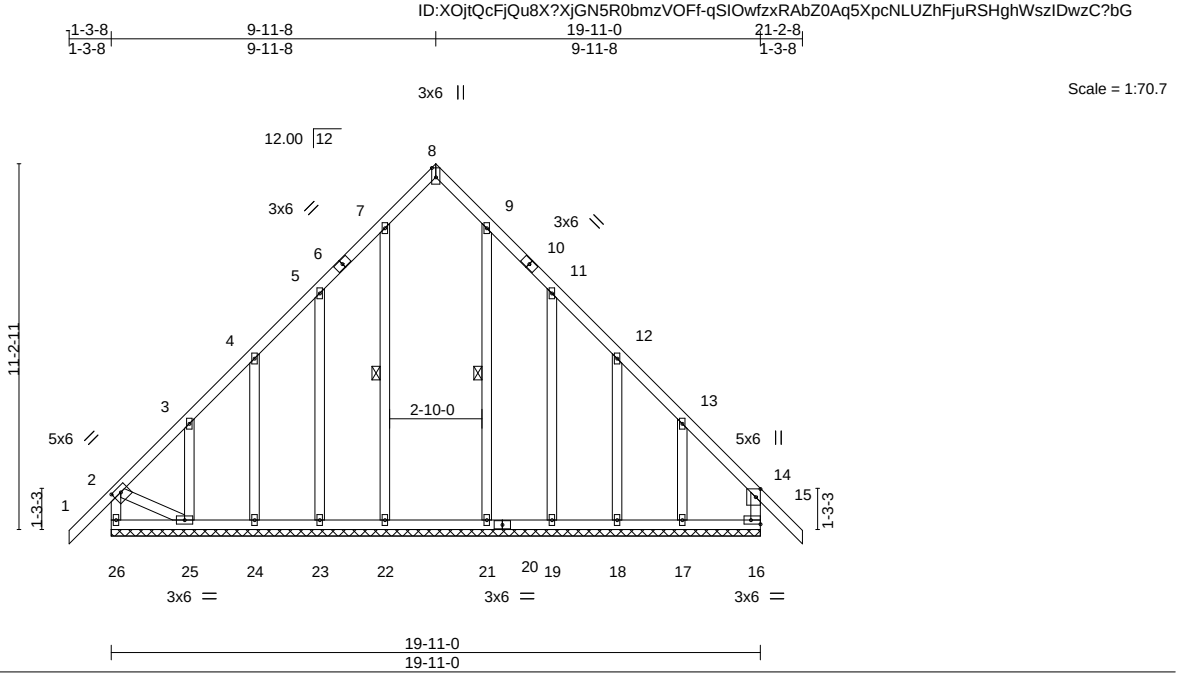

Plate Offsets (X,Y)-- [2:0-3-0,0-1-15], [8:0-3-7,Edge], [14:0-3-0,0-1-12], [16:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	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-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-25: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 25-26
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)
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
11) 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.
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.

May 28,2019

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818 Soundside Road
Edenton, NC 27932

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

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:10 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-Iesn7?_ZCUjQdJPH4W8cui5po7E1BmXqlWirmNzC?bF

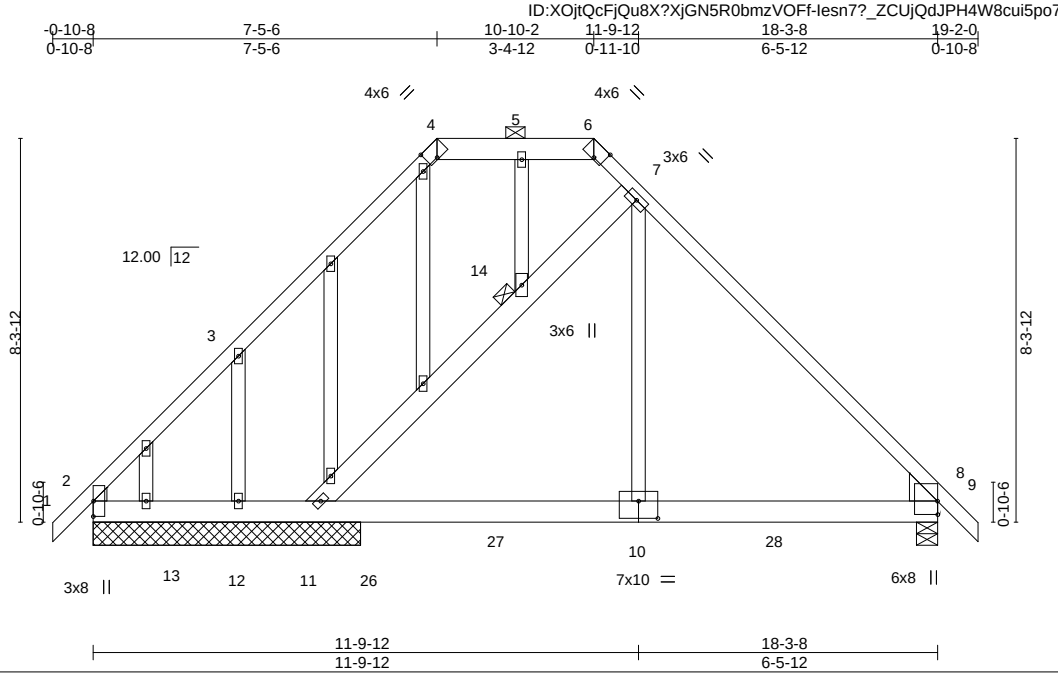

Plate Offsets (X,Y)-- [2:0-0-1,0-2-7], [2:0-0-1,0-0-1], [4:0-2-8,Edge], [6:0-2-8,Edge], [8:Edge,0-0-1], [8:0-0-1,0-4-15], [8:0-0-1,0-0-1], [10:0-5-0,0-4-8]

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	10-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	0.05	10-25	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 147 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x6 SP No.2 *Except* 7-10: 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.2, Right: 2x8 SP DSS

BRACING-
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 Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 14

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)
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) All bearings are assumed to be User Defined crushing capacity of 565 psi.
10) 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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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.

NORTH CAROLINA PROFESSIONAL SEAL 044925 ENGINEER SCOTT M. SEVIER
May 28,2019

Continued on page 2

LOAD CASE(S) Standard

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818 Soundside Road
Edenton, NC 27932

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)

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	C02	Hip Girder	3	2	I37223258
					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 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-E1_XYh0pk5z8tdZgCxA4z7BE8wnMfcN7CpByqFzC?bD

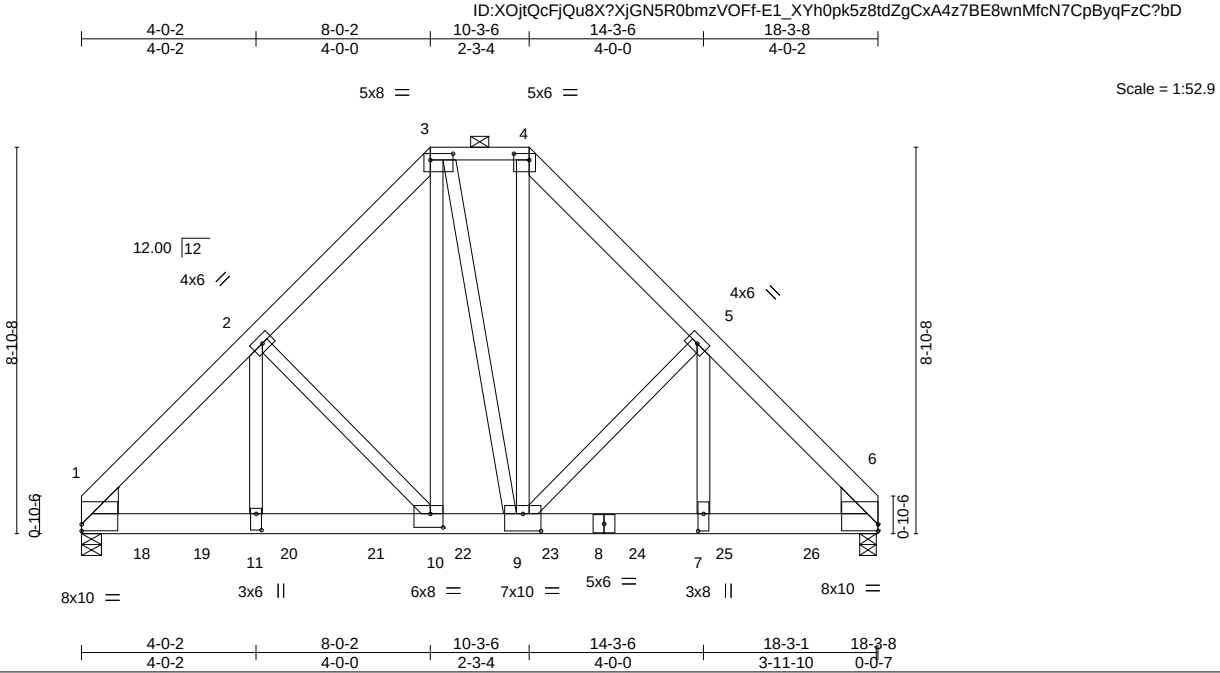

Plate Offsets (X,Y)-- [1:0-0-0,0-1-13], [3:0-6-4,0-1-12], [4:0-4-4,0-1-12], [6:Edge,0-1-13], [7:0-4-12,0-1-8], [9:0-5-0,0-4-12], [10:0-3-8,0-3-12], [11:0-4-8,0-1-8]

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-
TOP CHORD 2x6 SP No.2 *Except* 3-4: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x8 SP No.2, Right: 2x8 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (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)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; 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
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) 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) except (jt=lb) 1=1525, 6=1424.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) 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.

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Edenton, NC 27932

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)

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

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:13 2019 Page 1
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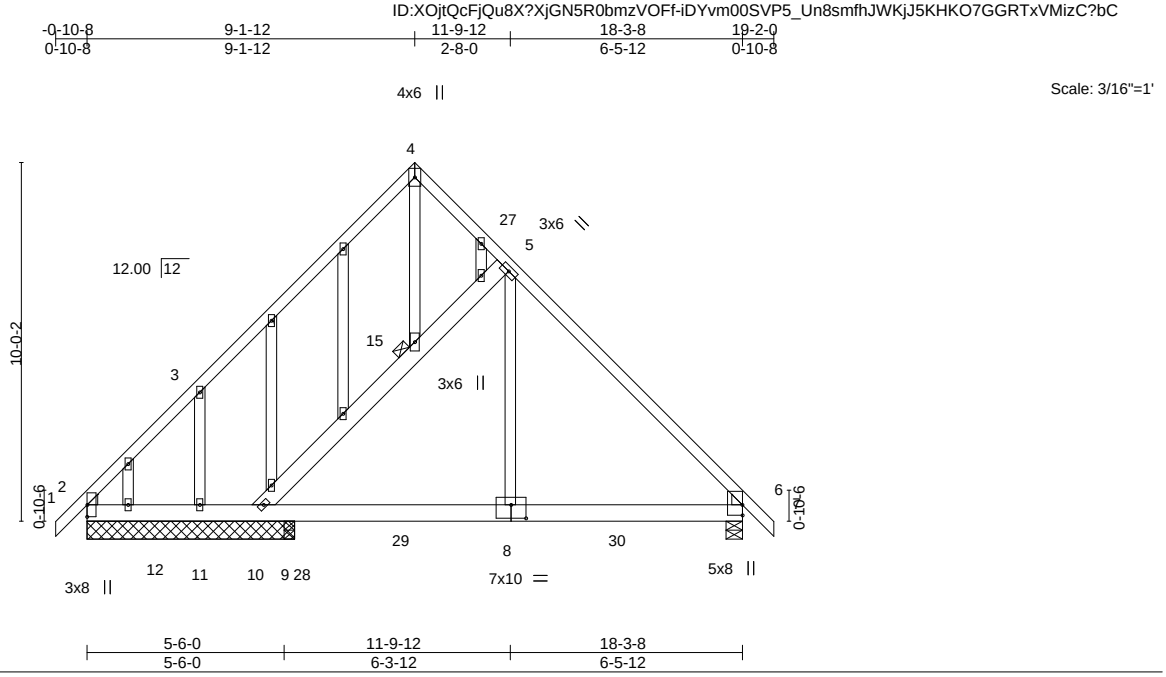

Plate Offsets (X,Y)-- [2:0-0-1,0-0-1], [2:0-0-1,0-2-7], [6:Edge,0-0-1], [6:0-0-1,0-2-7], [6:0-0-1,0-0-1], [8:0-5-0,0-4-8]

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	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.03	8-26	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS							Weight: 149 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x6 SP No.2 *Except*
5-8: 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.2, Right: 2x4 SP SS

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 15

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)
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable 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, with BCDL = 10.0psf.
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) 6, 9 except (jt=lb) 11=426, 12=171.
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) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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LOAD CASE(S) Standard

ENGINEERING BY
TRENCO
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Edenton, NC 27932

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)

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	C04	Common Girder	5	2	I37223260
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:15 2019 Page 1
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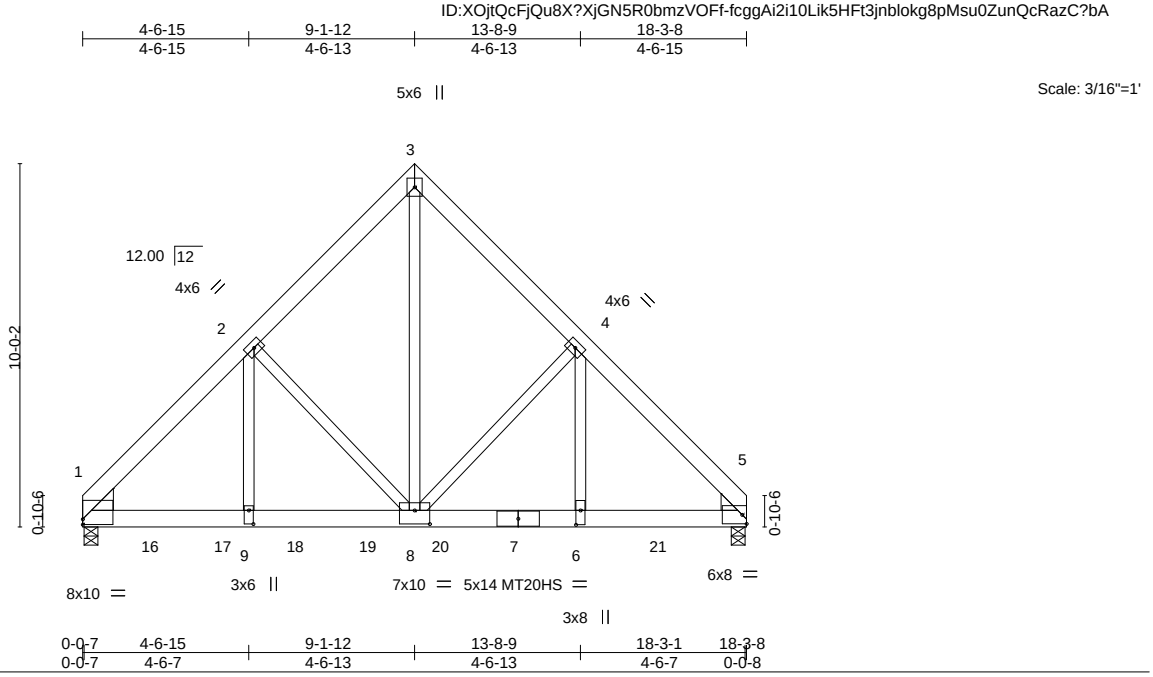

Plate Offsets (X,Y)-- [1:0-0-0,0-1-13], [6:0-4-12,0-1-8], [8:0-5-0,0-4-8], [9:0-4-8,0-1-8]

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)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) 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) except (jt=lb) 1=1379, 5=1588.
10) 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.
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.

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LOAD CASE(S) Standard

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

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)

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

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:16 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-7oD2O23KoKTZLEsRRnF07zLpsXC6bQIj7RA9z0zC?b9

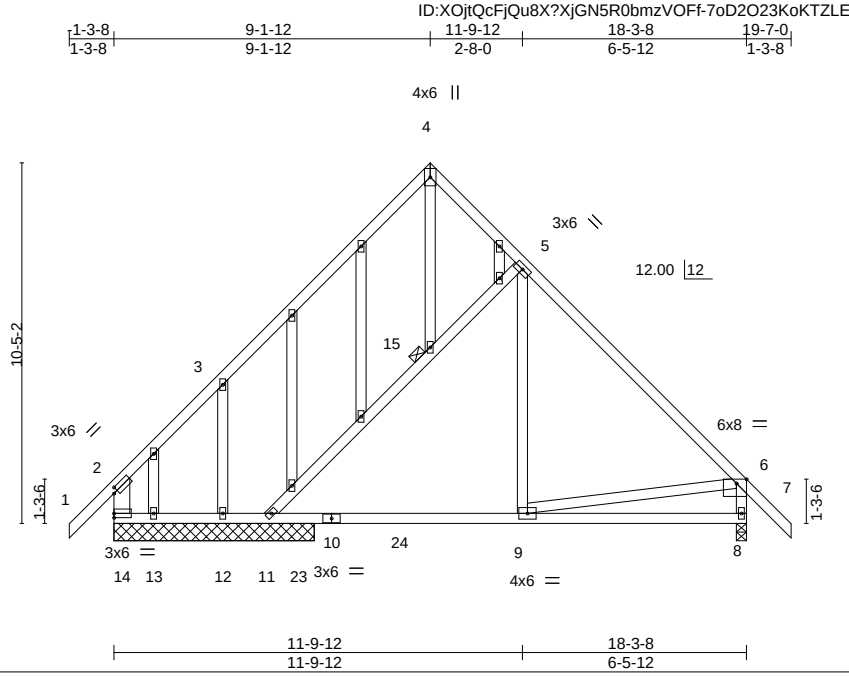

Plate Offsets (X,Y)-- [2:0-1-8,0-1-8], [6:0-3-8,Edge]

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	0.62	Vert(LL)	-0.07	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.12	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	-0.01	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.01	9	>999	240	Weight: 144 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
5-9,6-9: 2x4 SP No.3, 2-14: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 15

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-
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable 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, with BCDL = 10.0psf.
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) 11, 8 except (jt=lb) 12=433, 13=387.
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) 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

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ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

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)

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	C06	Common Girder	1	2	I37223262
					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 1
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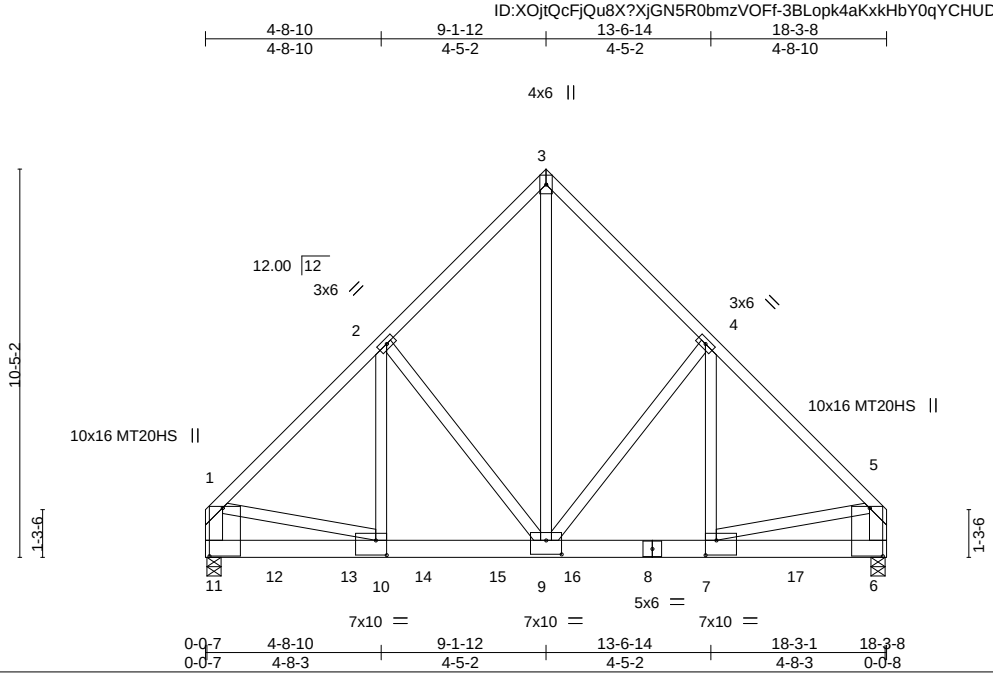


Plate Offsets (X,Y)-- [1:1-3-8,0-4-4], [5:1-3-8,0-4-4], [6:0-0-0,0-2-12], [7:0-3-8,0-4-12], [9:0-5-0,0-4-8], [10:0-3-8,0-4-12], [11:0-0-0,0-2-12]

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	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.13	7-9	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.07	7-9	>999	240	Weight: 297 lb	FT = 20%

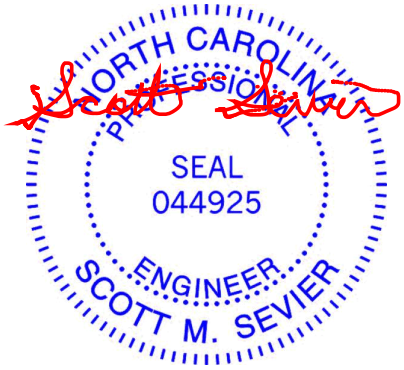
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
1-11,5-6: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) 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) except (jt=lb) 11=1359, 6=1564.
10) 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.



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LOAD CASE(S) Standard

Continued on page 2

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

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)

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	C07	Common Girder	1	2	I37223263 Job Reference (optional)

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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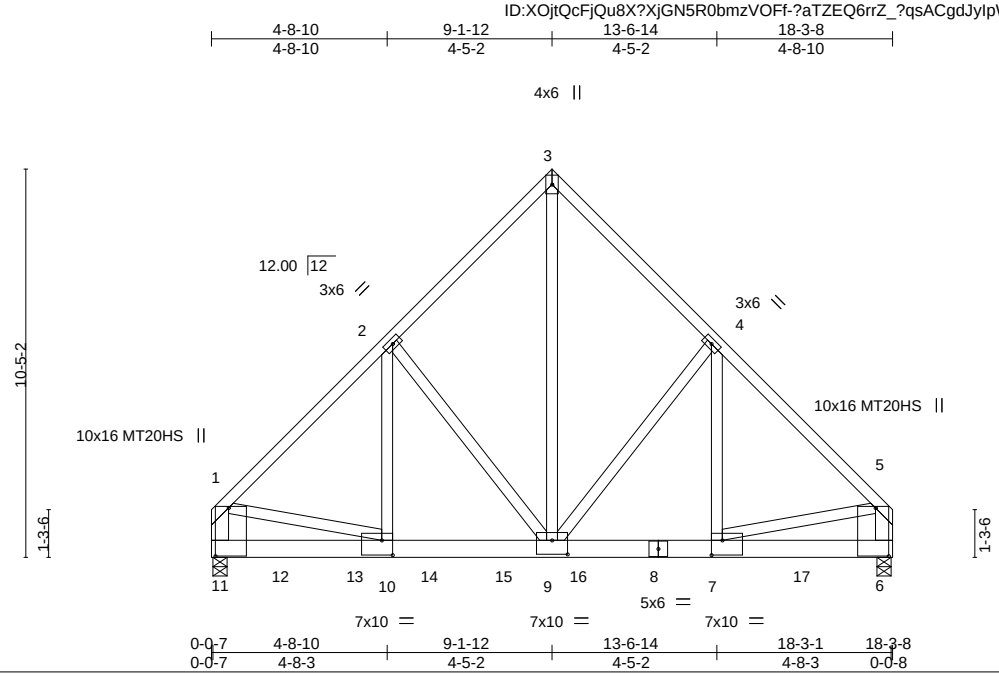

Plate Offsets (X,Y)-- [1:1-3-8,0-4-4], [5:1-3-8,0-4-4], [6:0-0-0,0-2-12], [7:0-3-8,0-4-12], [9:0-5-0,0-4-8], [10:0-3-8,0-4-12], [11:0-0-0,0-2-12]

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	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.13	7-9	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05	7-9	>999	240	Weight: 297 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
1-11,5-6: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) 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) except (jt=lb) 11=611, 6=685.
10) 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

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

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)

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	CP01	GABLE	9	1	I37223264
					Job Reference (optional)

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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0-4-8 5-6-0 5-6-0 0-4-8

Scale = 1:18.8

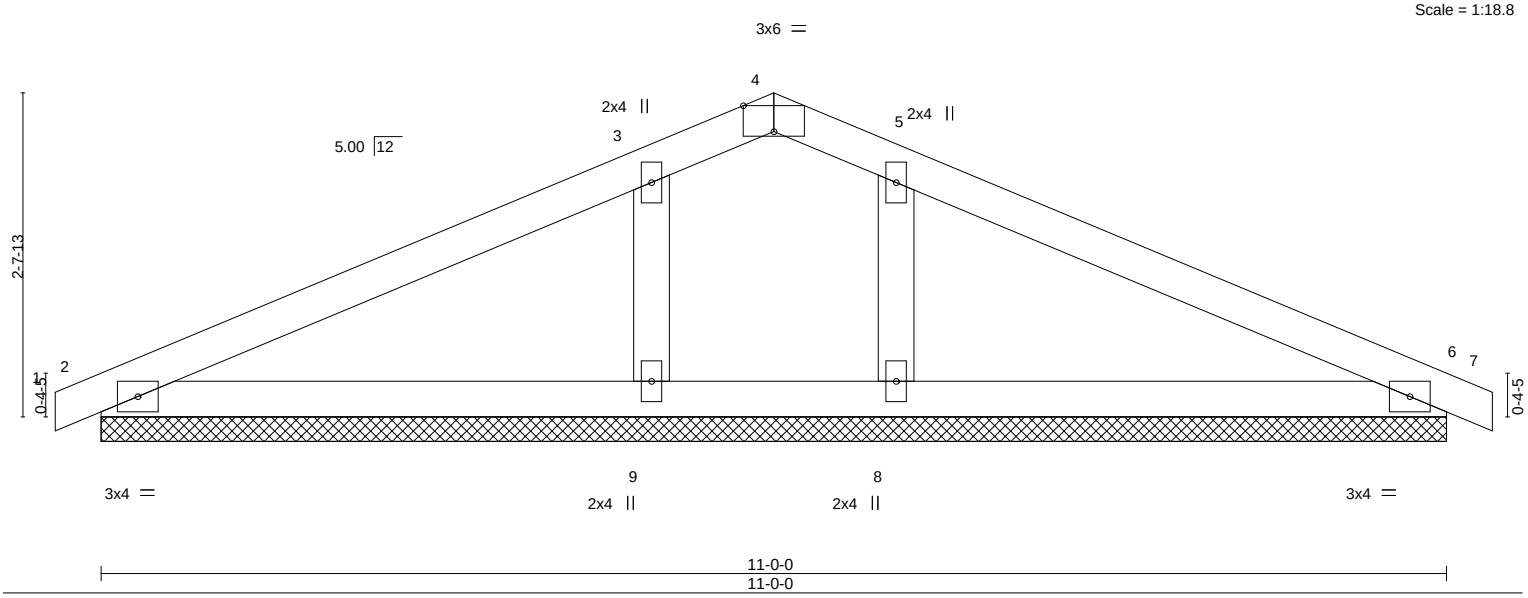

Plate Offsets (X,Y)-- [4:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.01	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 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)
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) 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) 2, 6 except (jt=lb) 9=168, 8=162.
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

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	CP02	Common	37	1	I37223265
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:22 2019 Page 1
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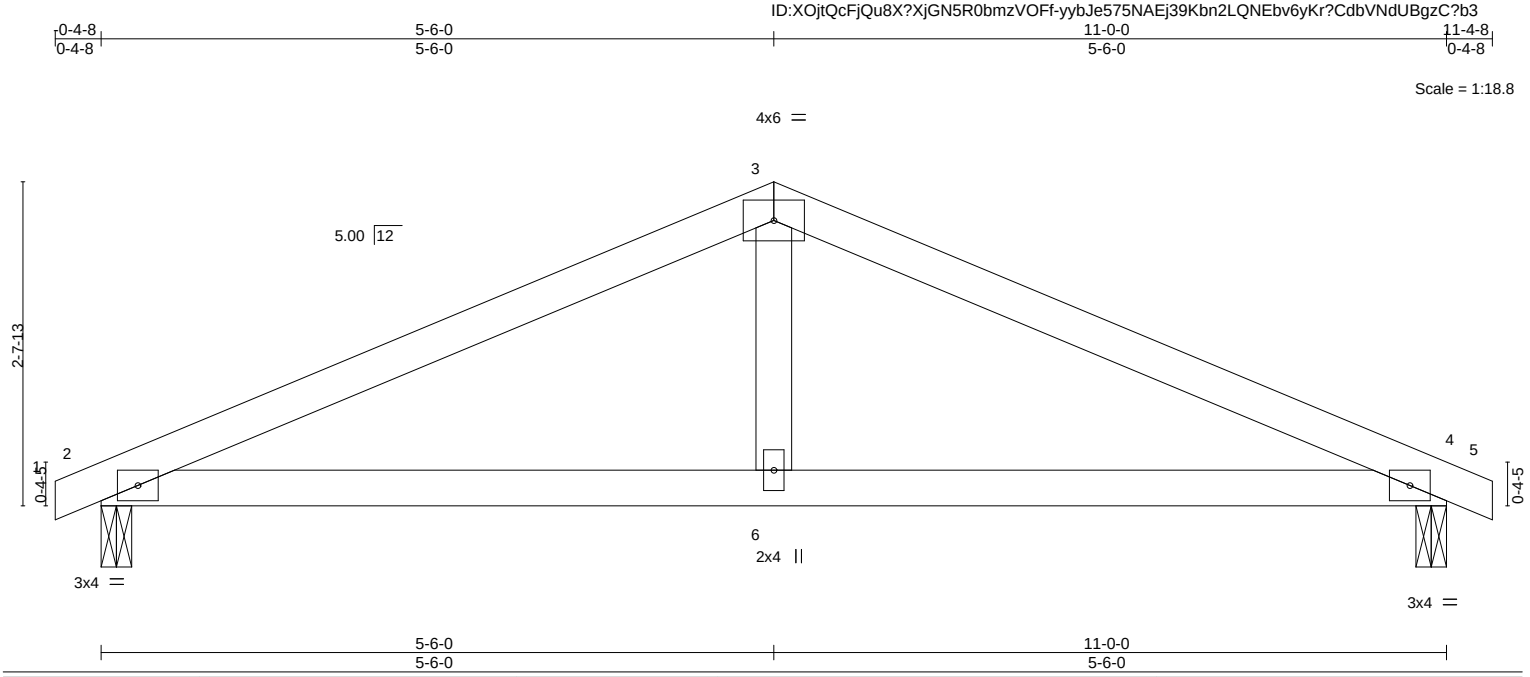

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.03	6-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.06	6-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.07	6-12	>999	240	Weight: 39 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.
BOT CHORD Rigid ceiling directly applied.

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)
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; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be User Defined crushing capacity of 425 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=222, 4=222.
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

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	D01	Common Supported Gable	8	1	I37223266
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:23 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-Q89hsR8j8UMahJvnLltfwR87oMkskcvlk1M1j6zC?b2

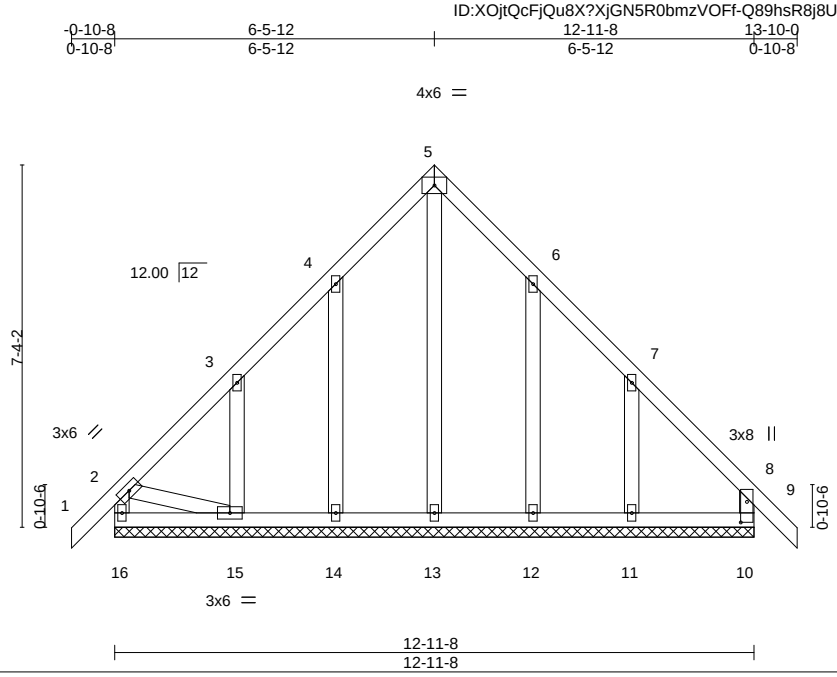

Plate Offsets (X,Y)-- [8:0-5-0,0-1-8]

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

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 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)
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
11) 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.
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.

May 28,2019

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	D02	GABLE	2	1	I37223267
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:24 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-uLi33n9LvnURJTTzvSOuSfgErm2aT5Quzh6bFZzC?b1

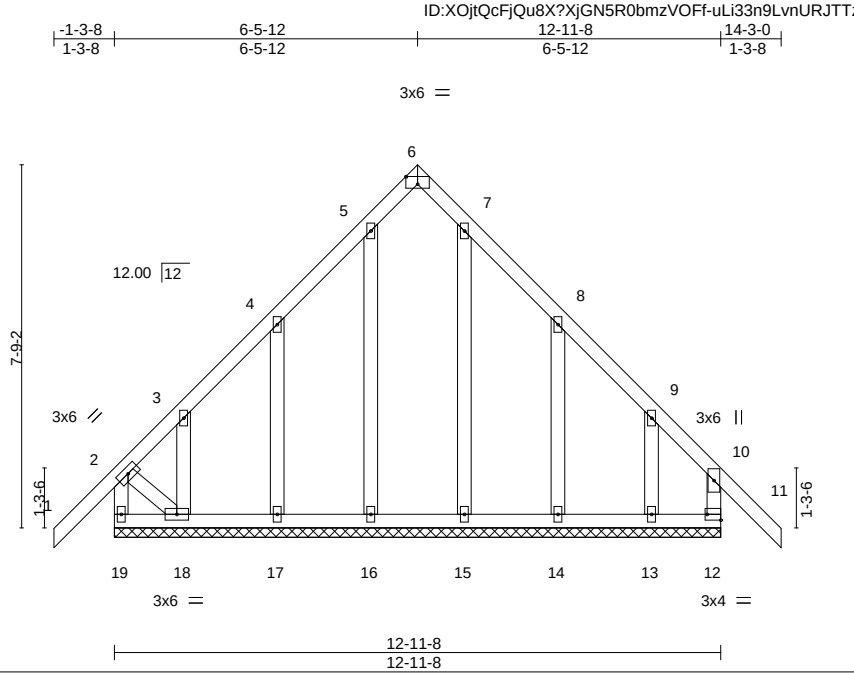

Plate Offsets (X,Y)-- [6:0-3-0,Edge], [12:Edge,0-1-8]

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-
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
11) 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

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	D03	Common	1	1	I37223268
					Job Reference (optional)

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

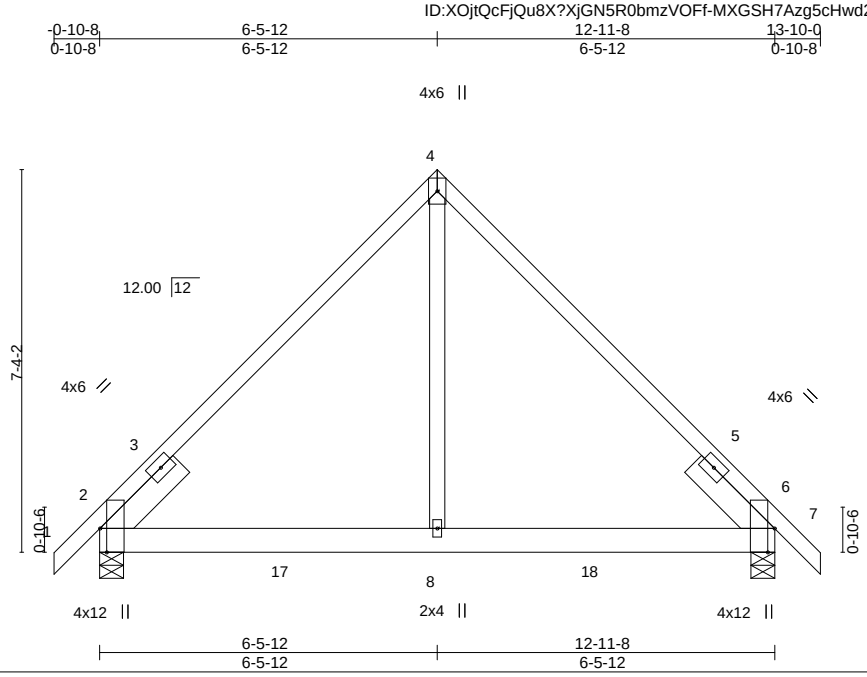

Plate Offsets (X,Y)-- [2:0-5-8,Edge], [6:0-5-8,Edge]

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	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.04	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.03	6	n/a	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-
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, with BCDL = 10.0psf.
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=135, 6=135.
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.

May 28,2019

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	G01	GABLE	2	1	I37223269
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:27 2019 Page 1
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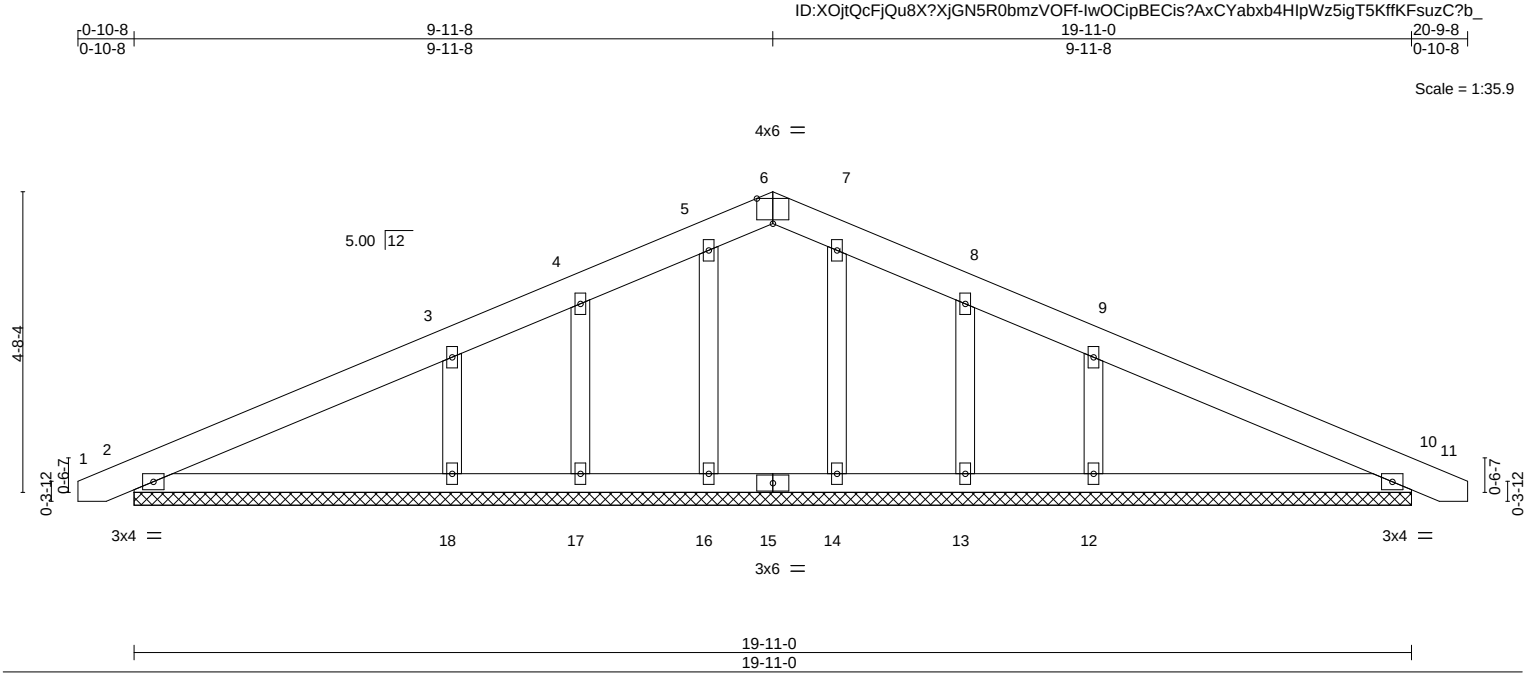

Plate Offsets (X,Y)-- [6:0-3-0,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	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)
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be User Defined crushing capacity of 565 psi.
10) 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.
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

ENGINEERING BY TRENCO
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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	G02	COMMON	14	1	I37223270
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:28 2019 Page 1
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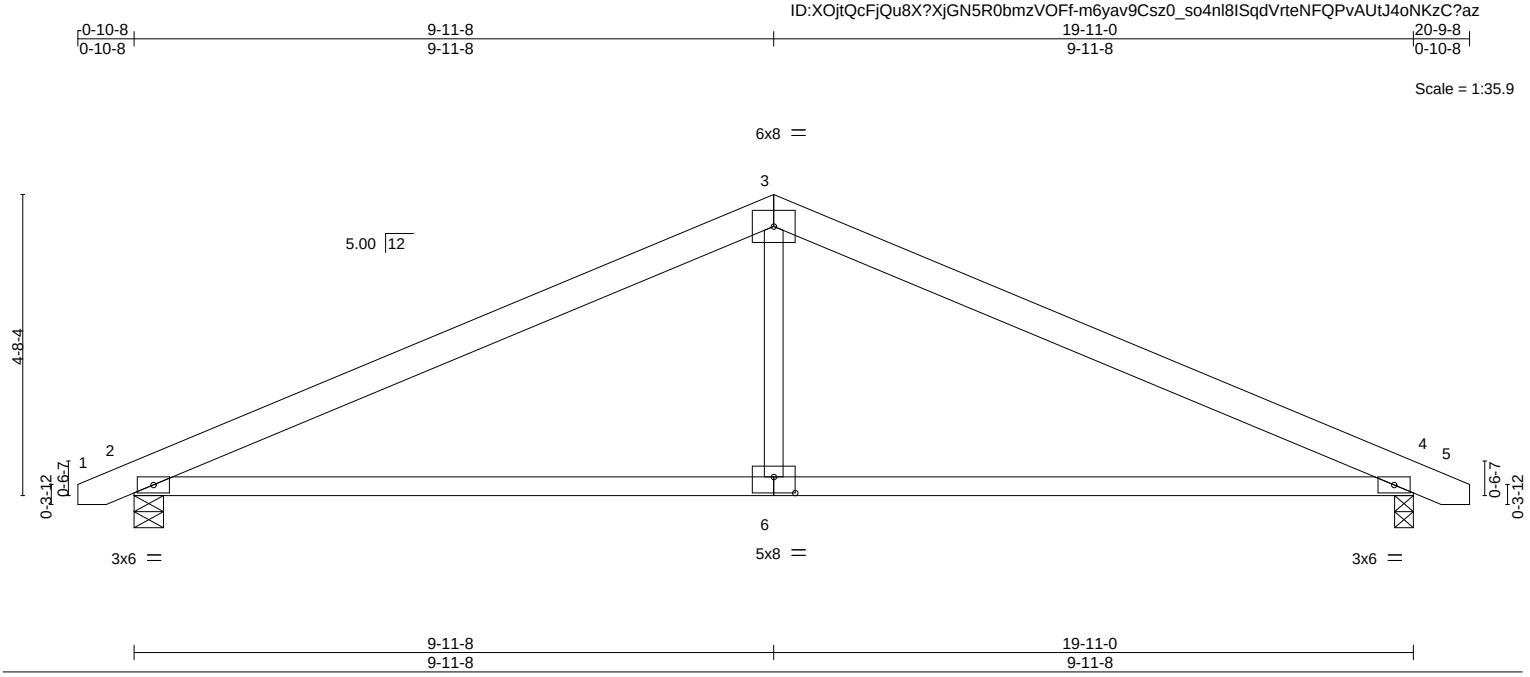

Plate Offsets (X,Y)-- [6:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.13	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.28	6-9	>844	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.13	6-9	>999	240	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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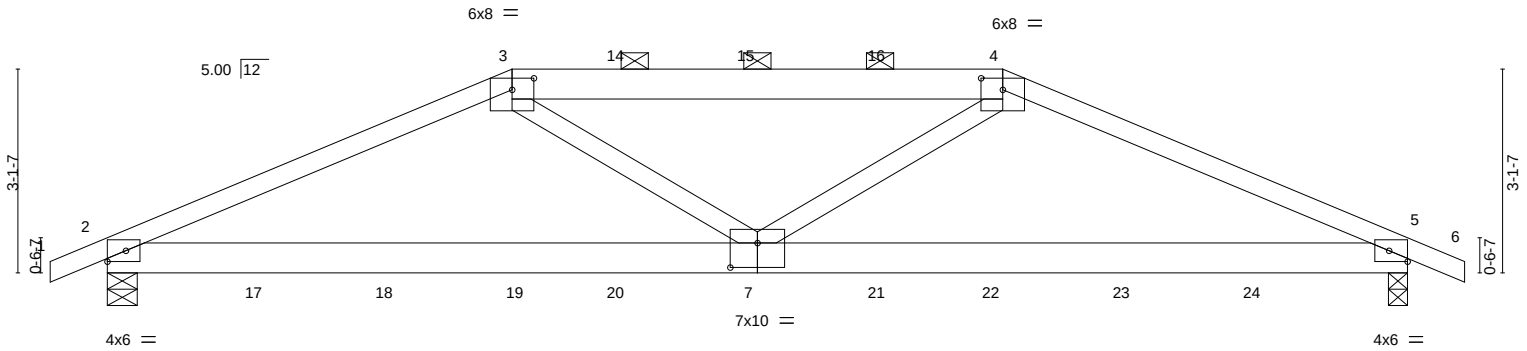
Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	G03	Hip Girder	1	1	I37223271
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:29 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-EIWy6VDUkK6jPEMxh0z39iO2?ng88NBd6zpLwmzC?ay

0-10-8 | 6-2-6 | 13-8-10 | 19-11-0 | 20-9-8
0-10-8 | 6-2-6 | 7-6-3 | 6-2-6 | 0-10-8

Scale = 1:35.3



9-11-8 | 19-11-0
9-11-8 | 9-11-8

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	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.15	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.02	5	n/a	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)
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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) 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) 2=607, 5=604.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) 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.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

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Continued on page 2

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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)

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J01	GABLE	8	1	I37223272
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:30 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-jV4LKrE6VdEa1Ox7FjVIiwwJ2A77tqmnLdZvSDzC?ax

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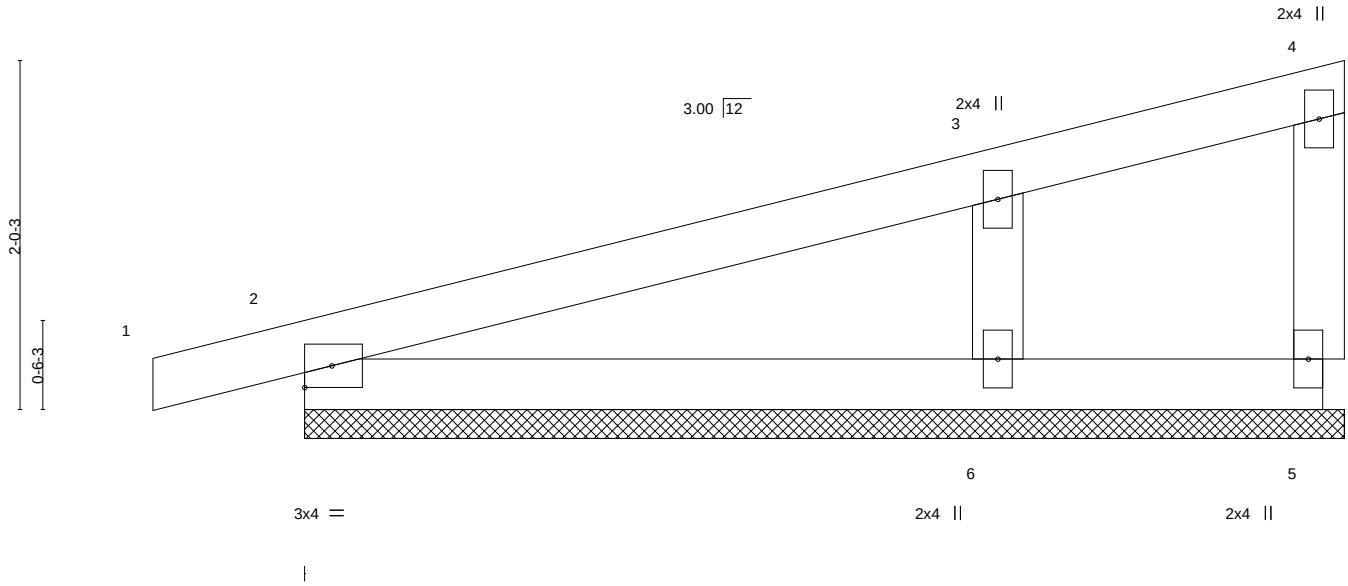
0-10-8 6-0-0

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-

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.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J02	Monopitch	40	1	I37223273
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:31 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-BhdjXAEkGxMRfYWKpQ0XE7TQgaODcIKwaHIS_fzC?aw

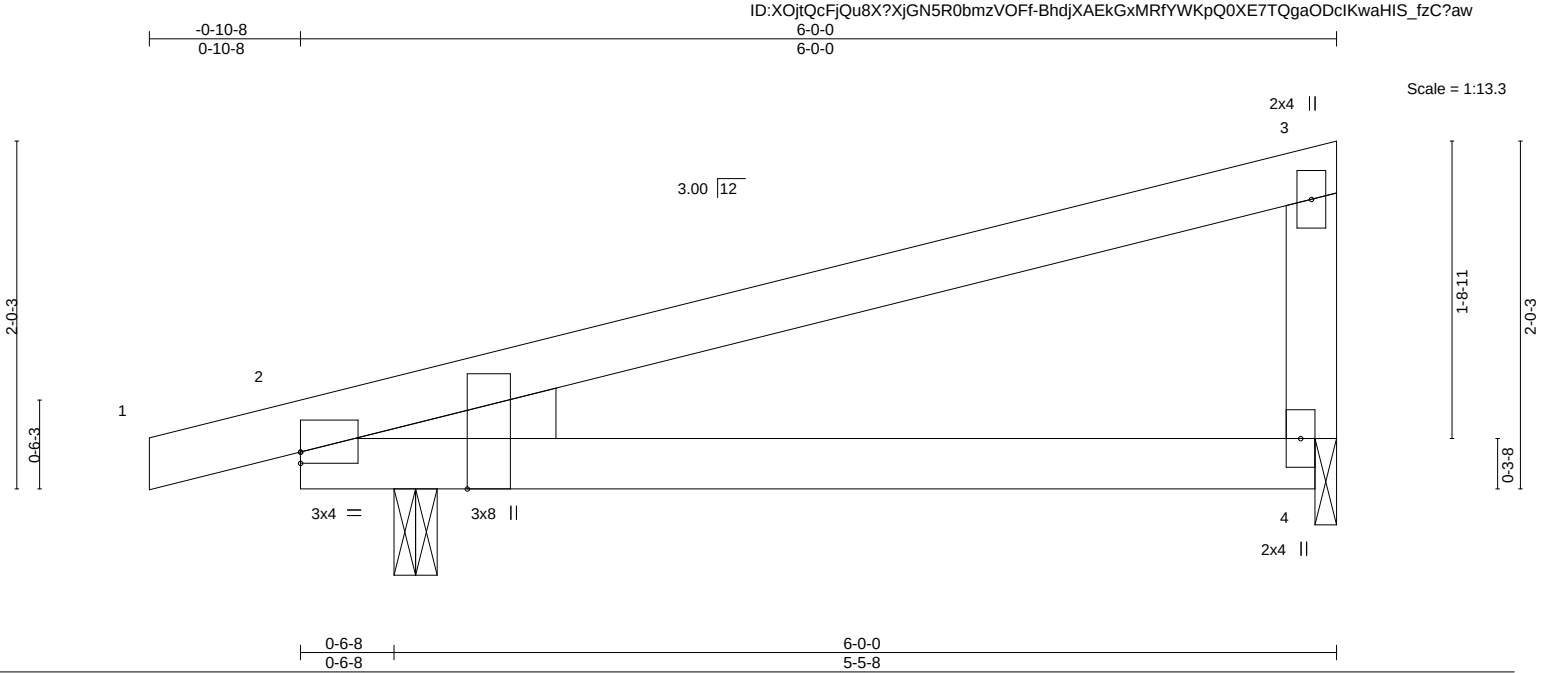

Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [2:0-2-9,Edge]

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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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J03	Monopitch	24	1	I37223274 Job Reference (optional)

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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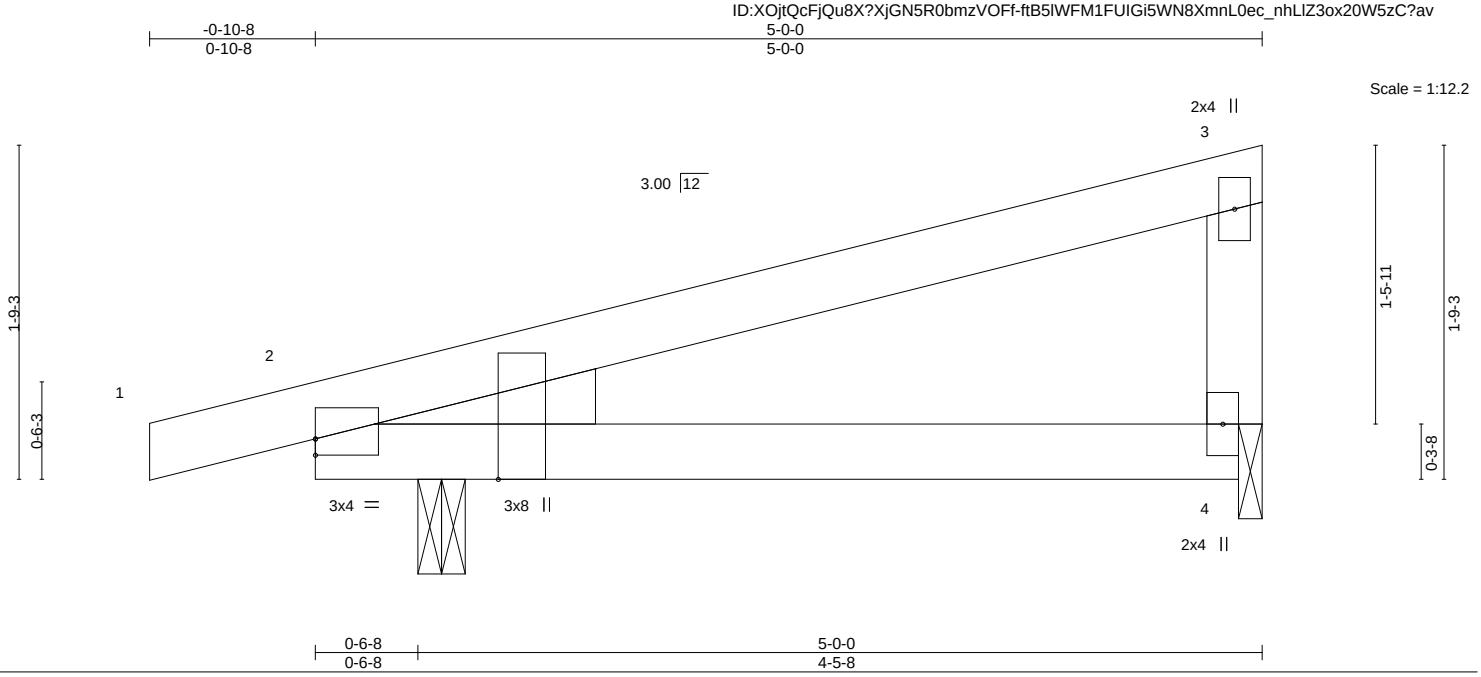

Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [2:0-2-9,Edge]

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	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.03	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: 20 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=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.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J04	GABLE	7	1	I37223275 Job Reference (optional)

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-74lTysG_nYd9usfiwr2?KYYpGO824CpD1bnZ3XzC?au

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0-10-8 4-0-0

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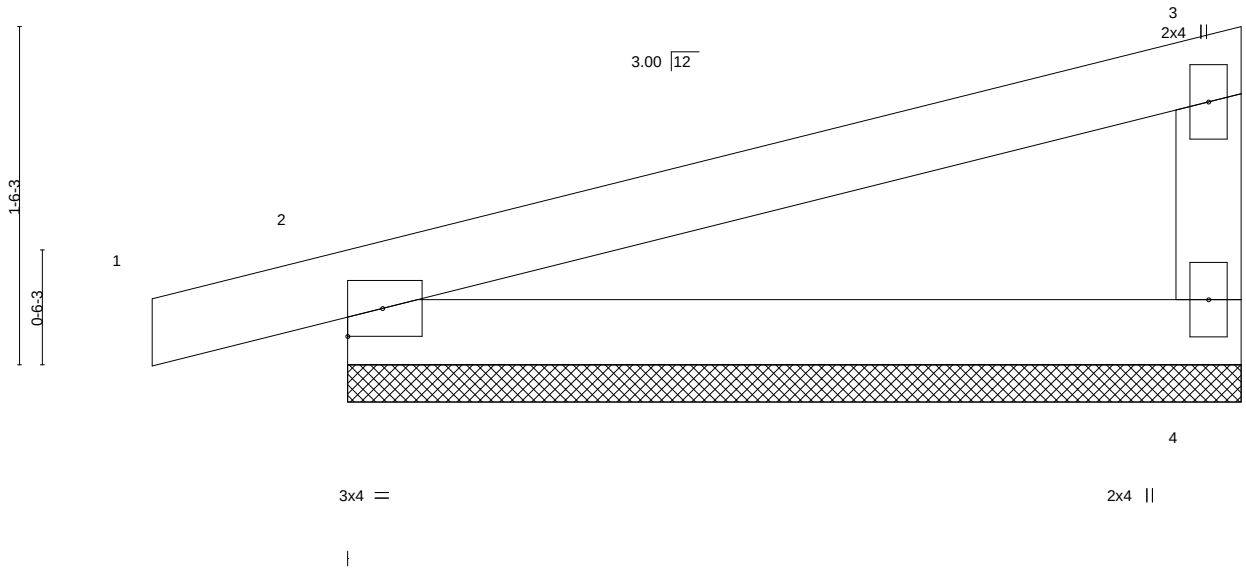

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		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; 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) 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.

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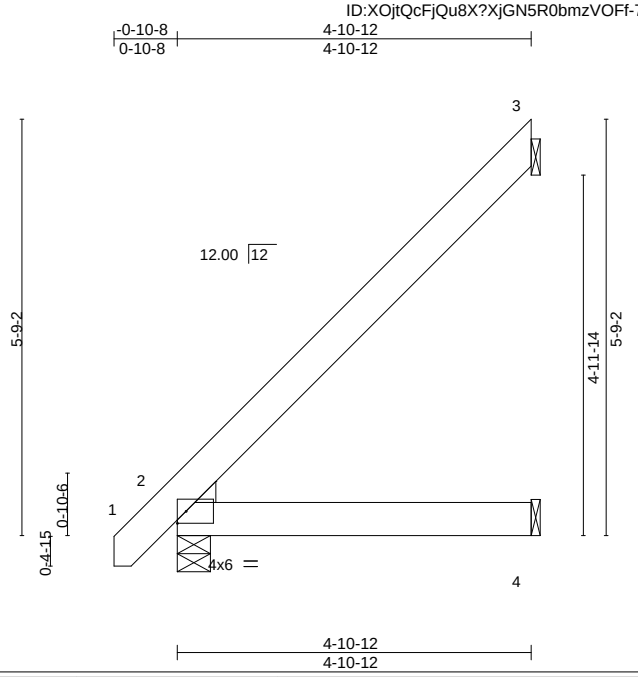
Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J05	JACK-OPEN	50	1	I37223276 Job Reference (optional)

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-74lTysG_nYd9usfiwr2?KYYp_O8B4CpD1bnZ3XzC?au



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.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J06	JACK-OPEN	11	1	I37223277 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:34 2019 Page 1
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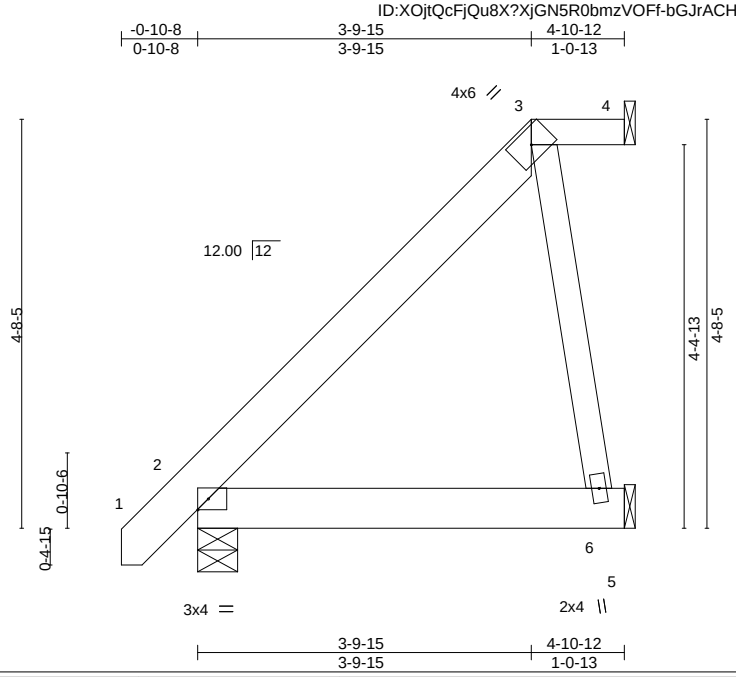

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.01	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	6-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		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)
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) 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 except (jt=lb) 6=141.
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.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J07	JACK-OPEN	11	1	I37223278 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:35 2019 Page 1
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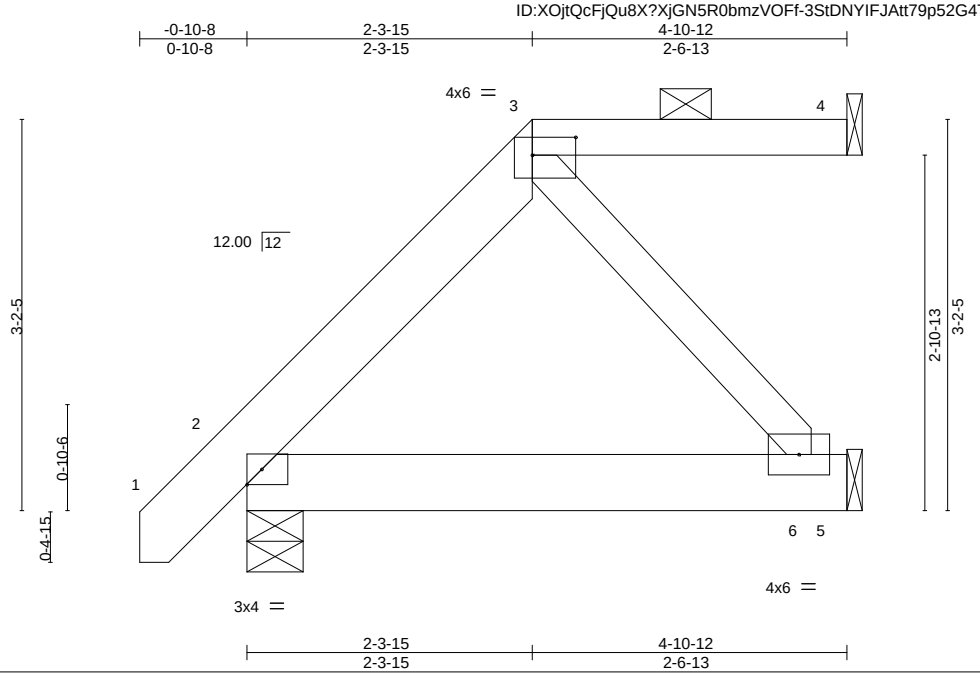

Plate Offsets (X,Y)-- [3:0-4-4,0-1-12]

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; 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
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

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J08	HALF HIP GIRDER	12	1	I37223279 Job Reference (optional)

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?klJOHc_bixBAIEbA6HZ5fjY0DfszC?ar

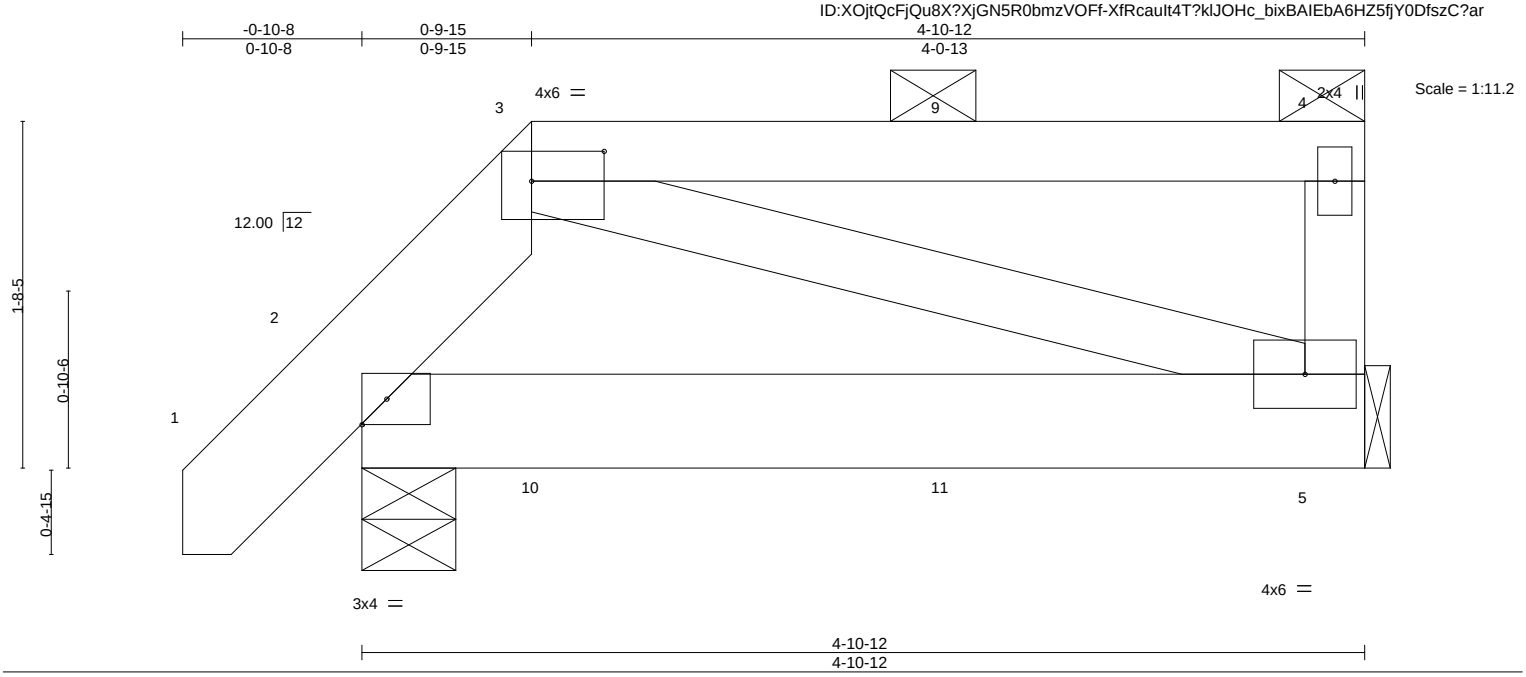

Plate Offsets (X,Y)-- [3:0-4-4,0-1-12]

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	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	5-8	>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.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)
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; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi, Joint 5 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) 2, 5.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) 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.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

May 28,2019

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J09	Jack-Open	24	1	I37223280 Job Reference (optional)

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

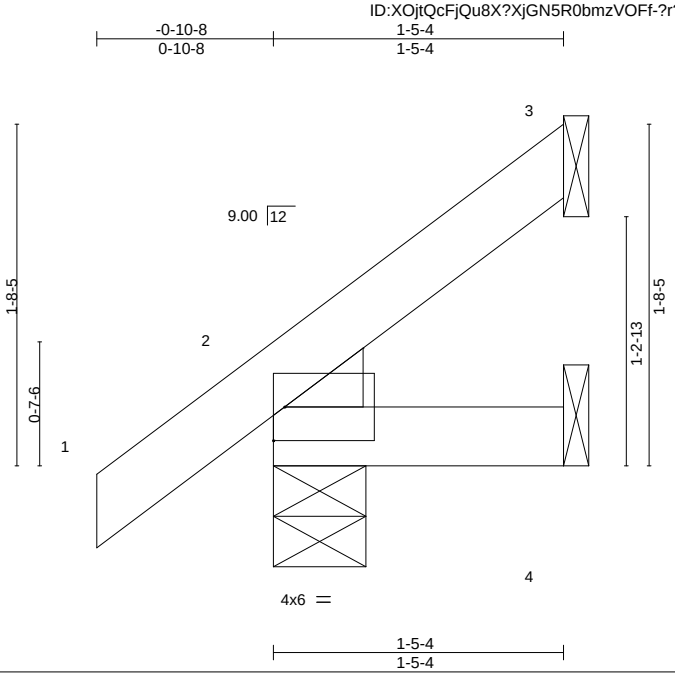

Plate Offsets (X,Y)-- [2:0-0-5,0-0-4], [2:0-3-12,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 7 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-5-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

ENGINEERING BY TRENCO
A MiTek Affiliate
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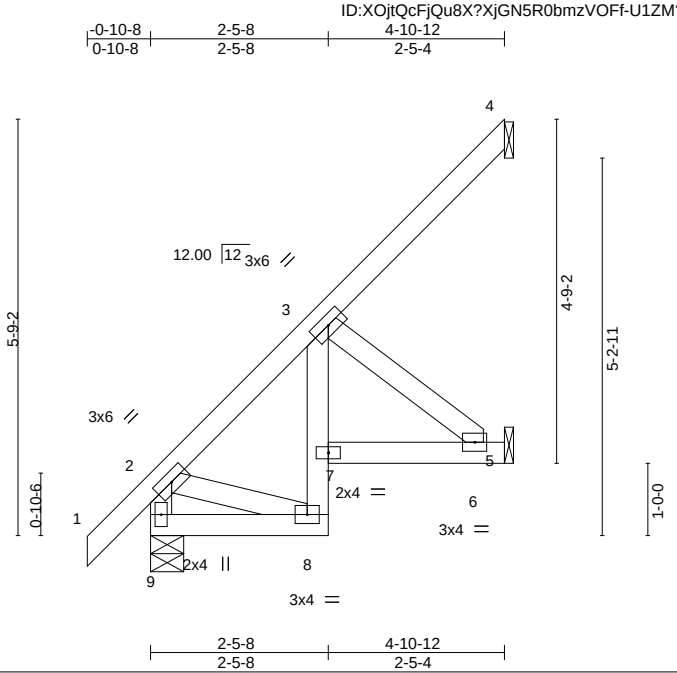
Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J10	Jack-Open	4	1	I37223281
					Job Reference (optional)

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_dYgjPeA0cFiwPp3lSqyBsVKklzC?ap



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	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.03	5	n/a	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

ENGINEERING BY TRENCO
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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J11	Jack-Open	1	1	I37223282 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:39 2019 Page 1
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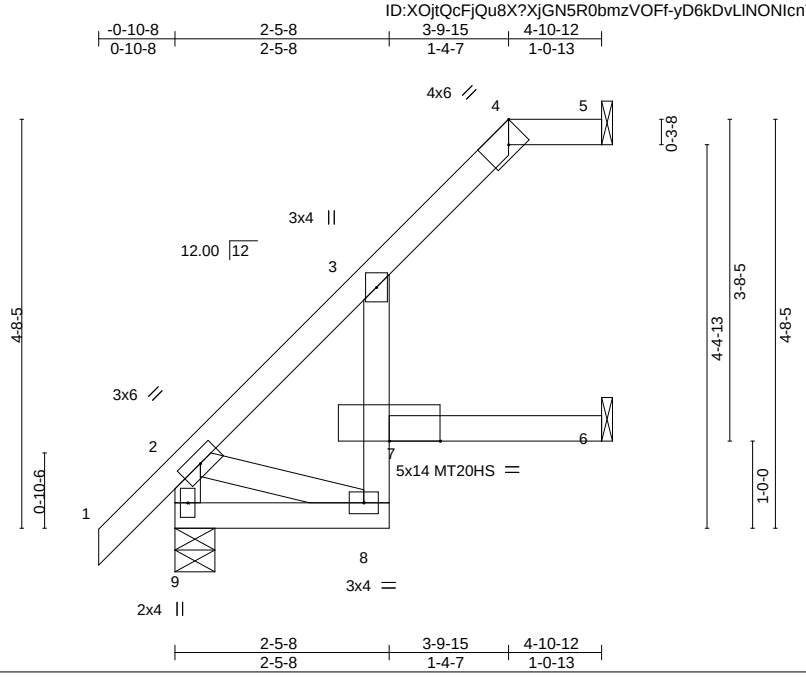

Plate Offsets (X,Y)-- [4:0-2-8,Edge]

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	0.31	Vert(LL)	0.07	6-7	>752	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.05	6-7	>999	240	MT20HS	187/143
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							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; 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
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.

NORTH CAROLINA PROFESSIONAL SEAL 044925 ENGINEER SCOTT M. SEVIER

May 28,2019

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J12	Jack-Open	1	1	I37223283
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:40 2019 Page 1
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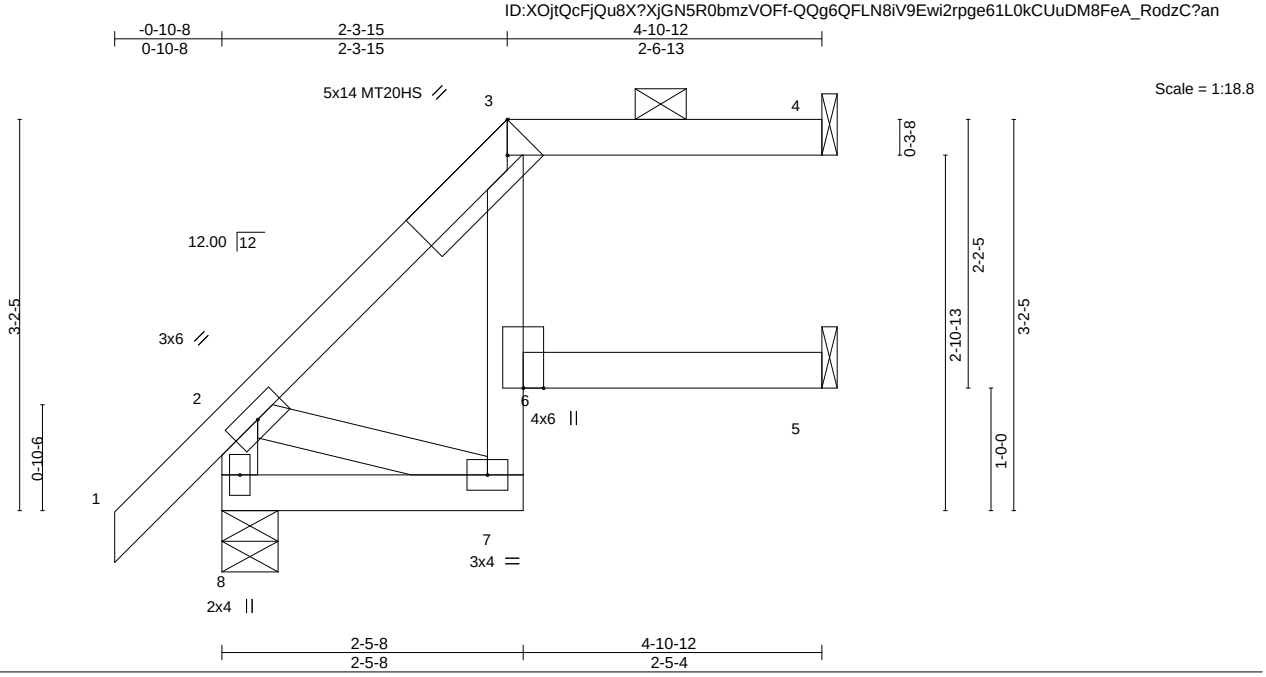

Plate Offsets (X,Y)-- [3:0-2-8,Edge]

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	0.24	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.04	5-6	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.05	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-AS		Wind(LL)	0.04	5-6	>999	240	Weight: 26 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: 3-4.
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)
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 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) 8, 4, 5.
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.

May 28,2019

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J13	Jack-Open	5	1	I37223284
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:41 2019 Page 1
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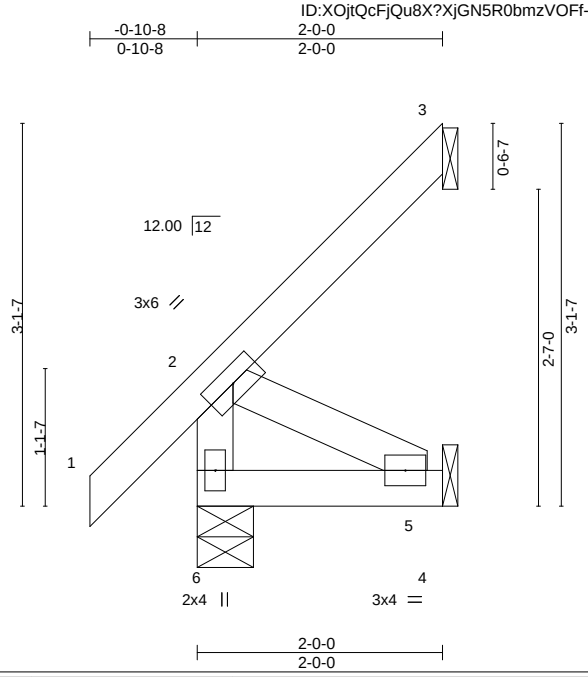

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	6	>999	240	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

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J14	Half Hip	2	1	I37223285
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:42 2019 Page 1
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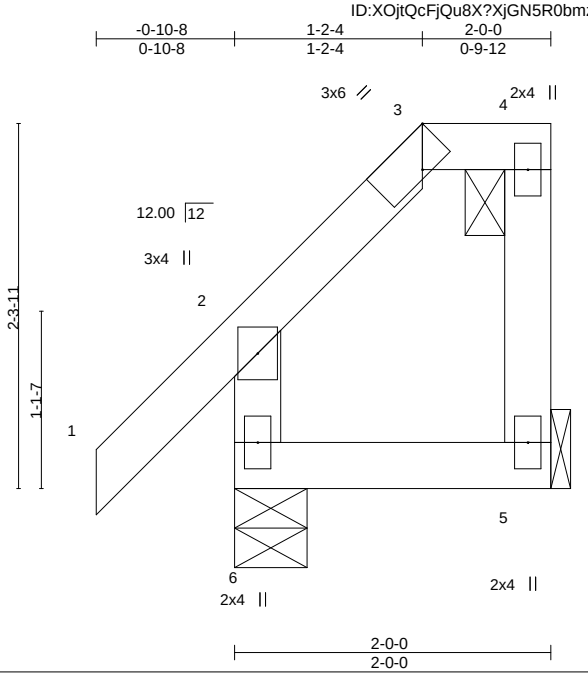

Scale = 1:14.6

Plate Offsets (X,Y)-- [3:0-2-8,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	0.14	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	6	>999	240		
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-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)
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) 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) Bearings are assumed to be: Joint 6 User Defined crushing capacity of 565 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) 5, 6.
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

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J15	Half Hip	2	1	I37223286
					Job Reference (optional)

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?MF2HOGRdtk5OQdWyELjfzZkQaaQjlhK8C5PyzC?ak

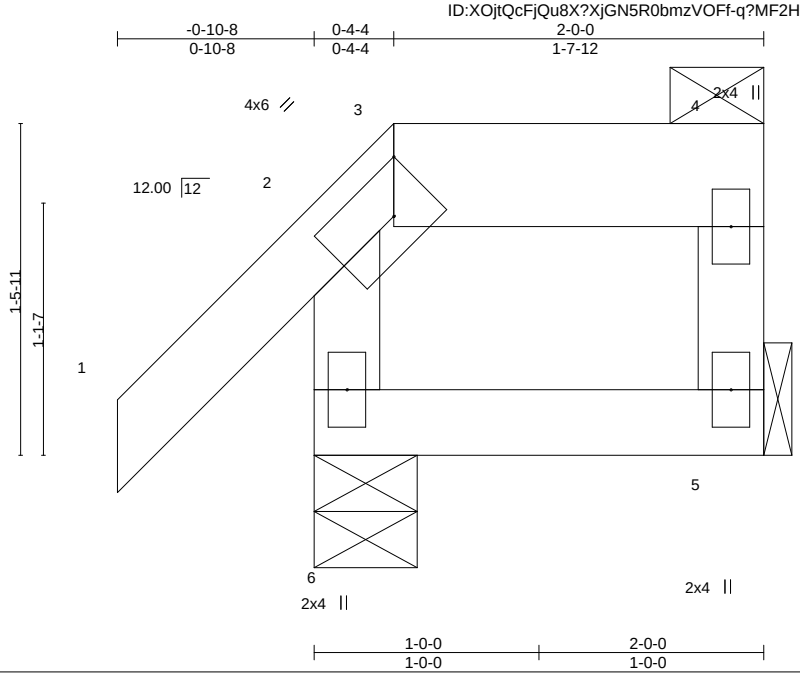

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Plate Offsets (X,Y)-- [2:0-2-8,0-0-0], [3:0-2-4,Edge], [3:0-1-12,0-1-12]

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	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	6	>999	240		
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-MR		Wind(LL)	0.00	6	>999	240	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)
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) -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
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) Bearings are assumed to be: Joint 6 User Defined crushing capacity of 565 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) 5, 6.
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

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J21	GABLE	2	1	I37223287
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:43 2019 Page 1
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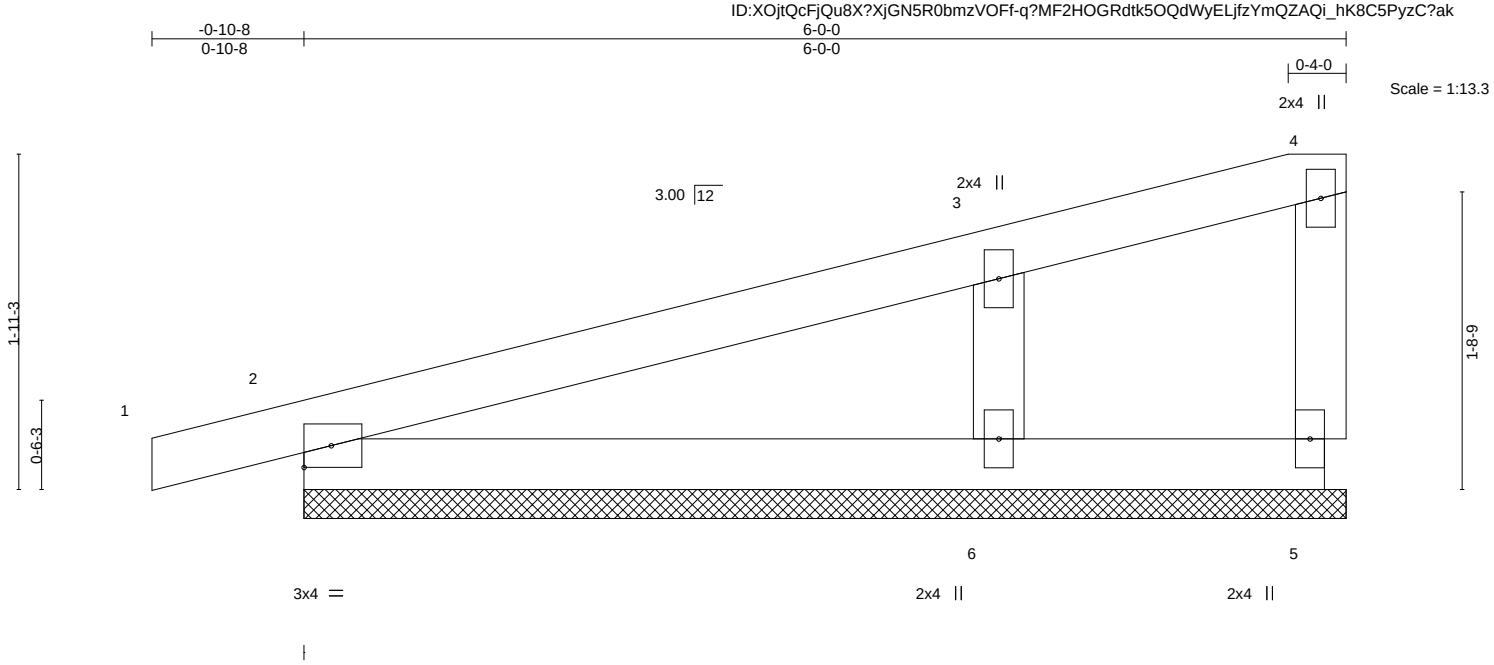

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	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.

May 28,2019

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J22	Monopitch	10	1	I37223288
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:44 2019 Page 1
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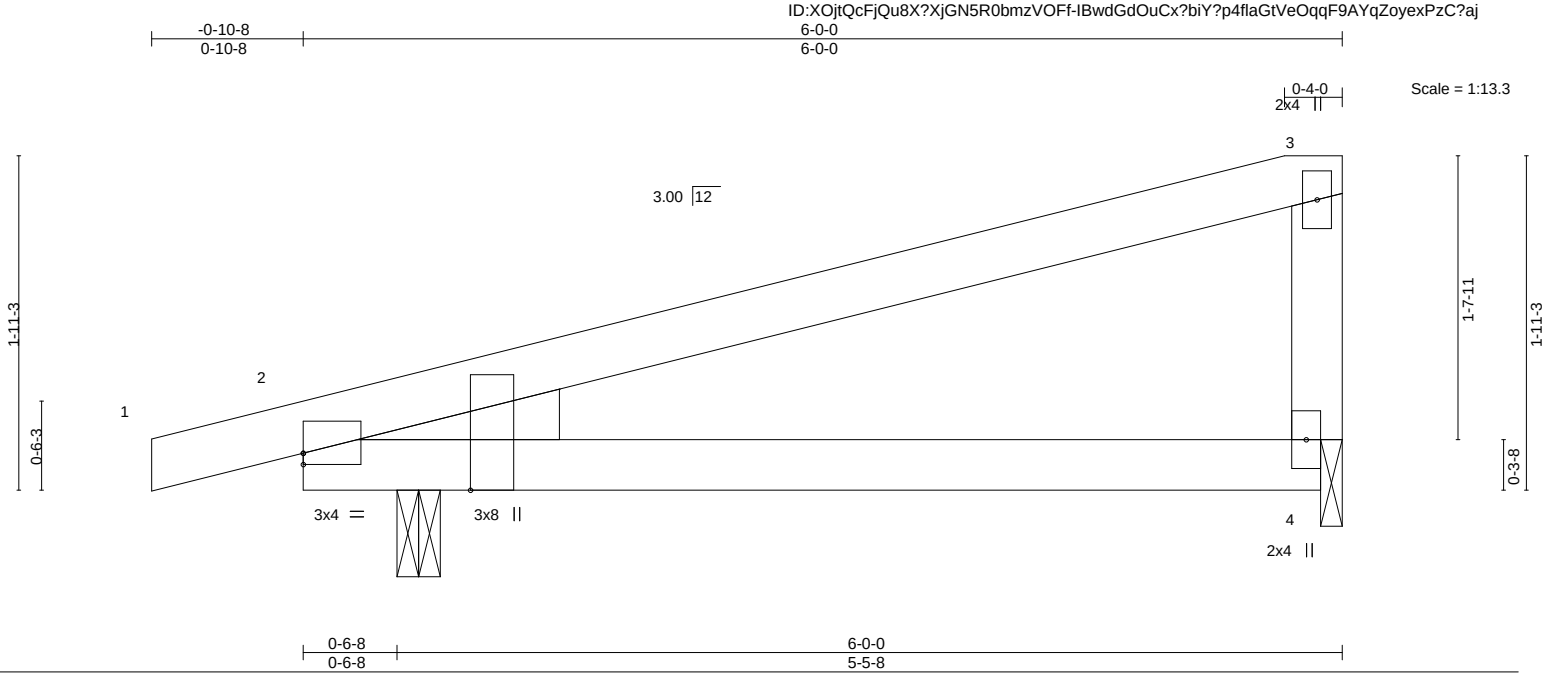

Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [2:0-2-9,Edge]

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.

May 28,2019

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J23	Monopitch	6	1	I37223289
					Job Reference (optional)

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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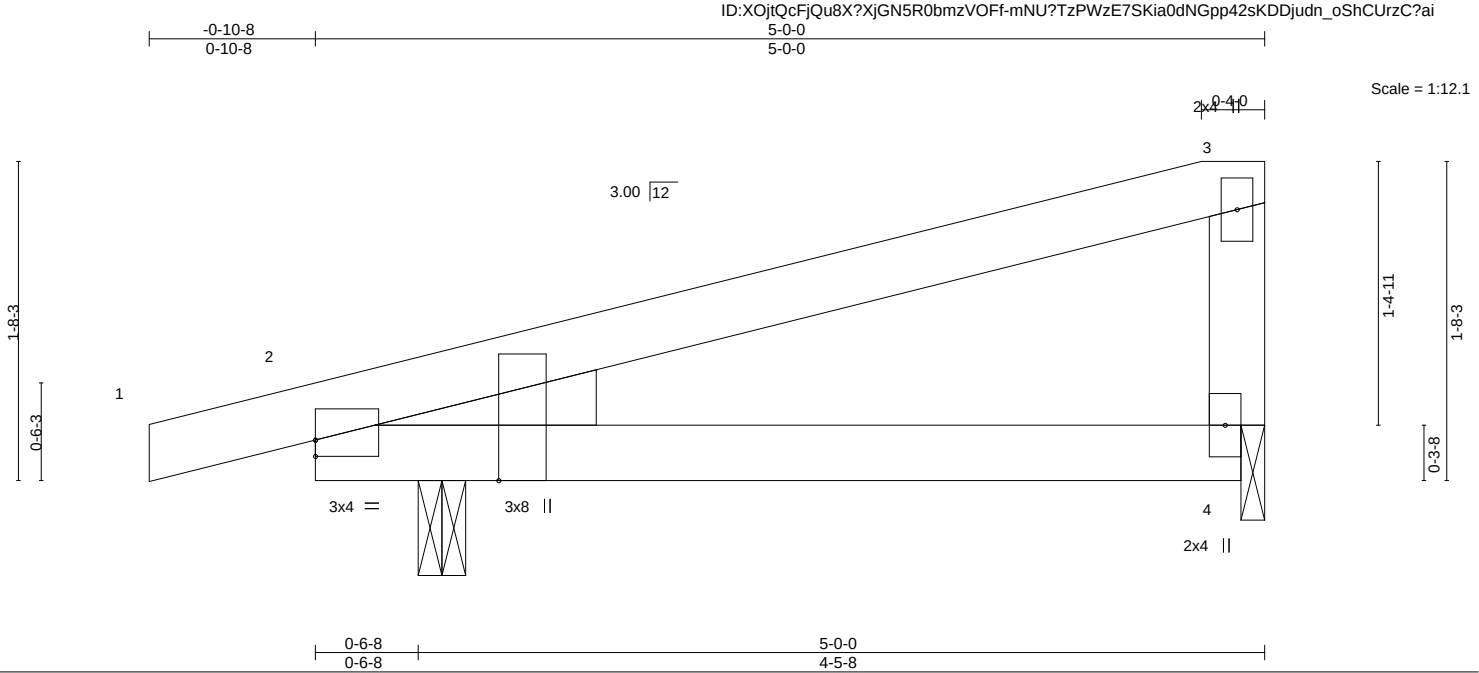

Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [2:0-2-9,Edge]

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	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.03	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: 20 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=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.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	J24	GABLE	1	1	I37223290
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:46 2019 Page 1
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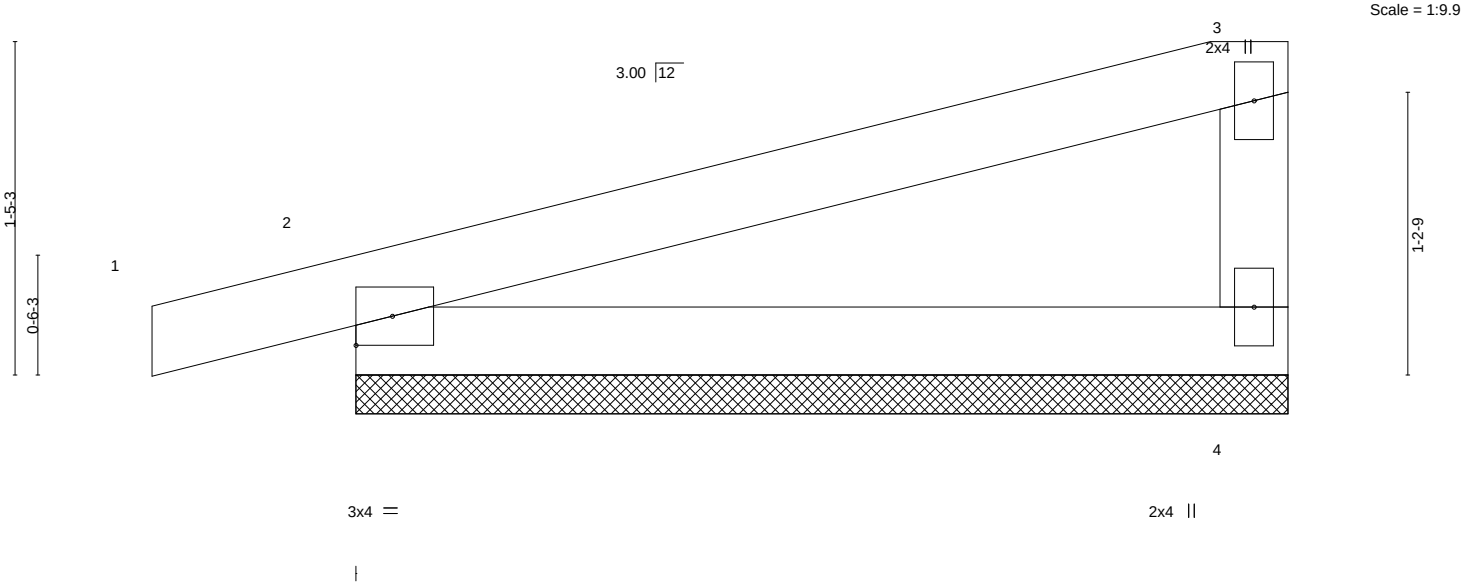

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	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; 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) 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.

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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	PB01	GABLE	6	1	I37223291
					Job Reference (optional)

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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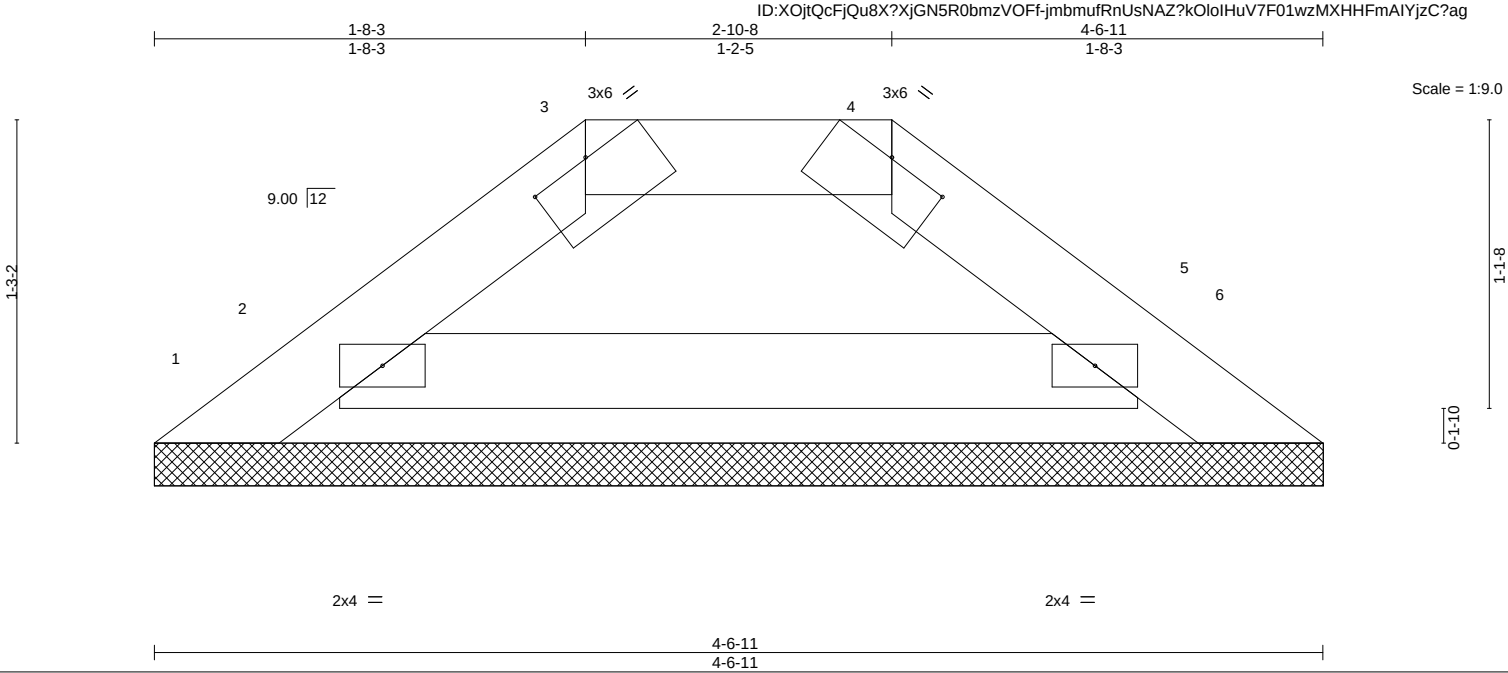

Plate Offsets (X,Y)-- [3:0-3-0,0-0-1], [4:0-3-0,0-0-1]

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	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							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, except
2-0-0 oc purlins: 3-4.
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)
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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be User Defined crushing capacity of 565 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 2, 5.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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.

May 28,2019

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

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	PB02	GABLE	159	1	I37223292
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:48 2019 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-By986_SPF9V1B9JbJVpWQjgQnRGX5_XQUQws5AzC?af

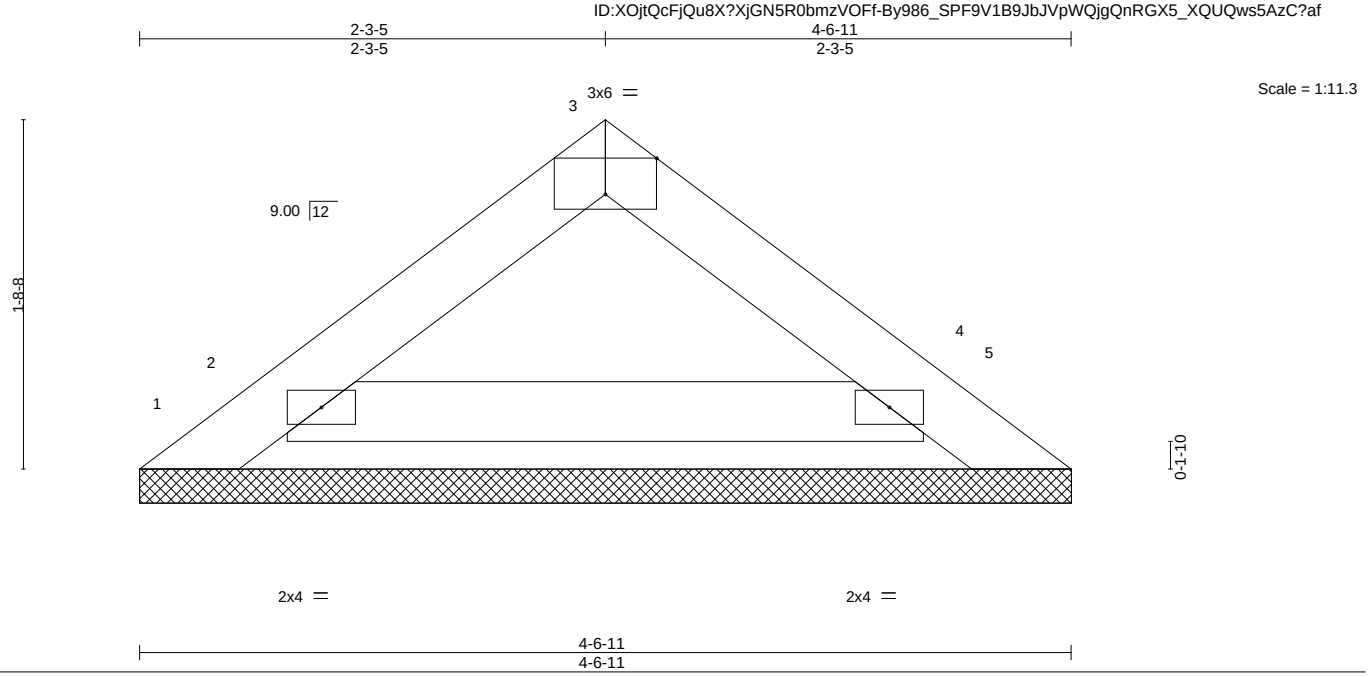

Plate Offsets (X,Y)-- [3:0-3-0,Edge]

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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) 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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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	PB03	GABLE	10	1	I37223293
					Job Reference (optional)

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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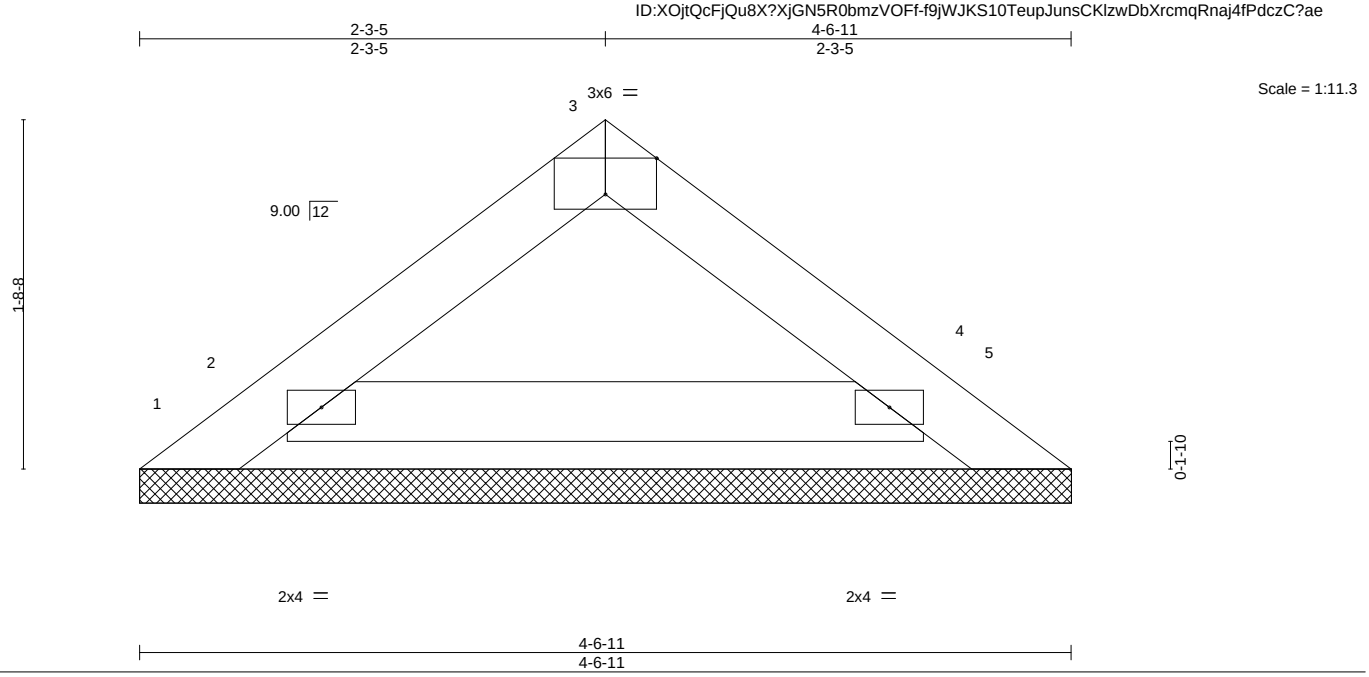

Plate Offsets (X,Y)-- [3:0-3-0,Edge]

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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) 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.

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	PB04	GABLE	24	1	I37223294
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:50 2019 Page 1
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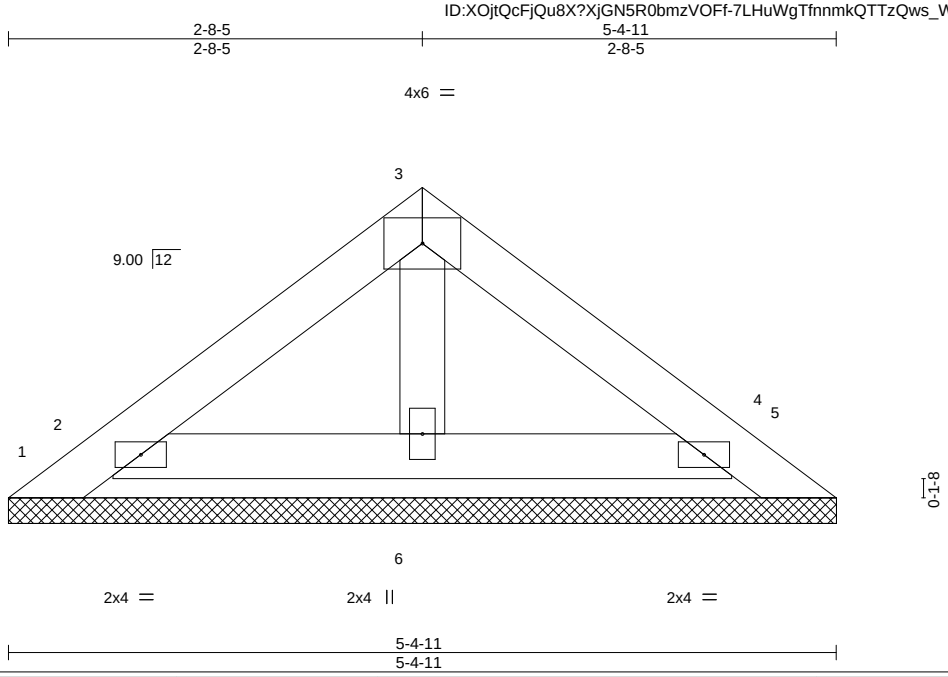

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		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-
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) 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 except (jt=lb) 2=142, 4=125.
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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Job	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	PB05	GABLE	2	1	I37223295
					Job Reference (optional)

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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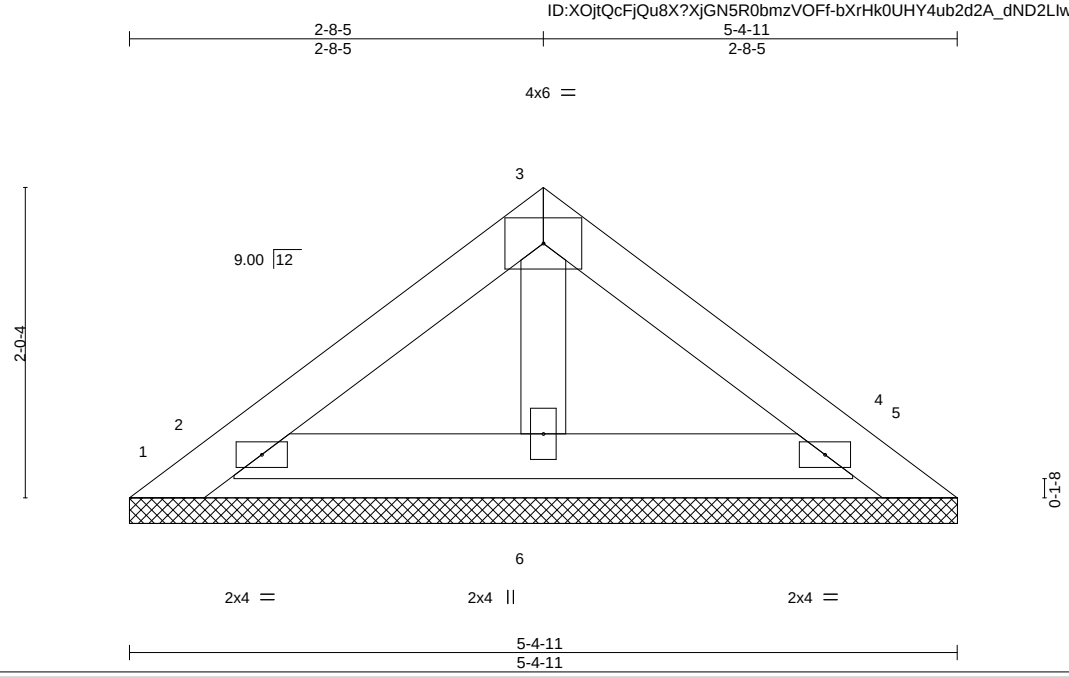

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	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-
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) 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 except (jt=lb) 2=142, 4=125.
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	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	PB06	GABLE	24	1	I37223296
					Job Reference (optional)

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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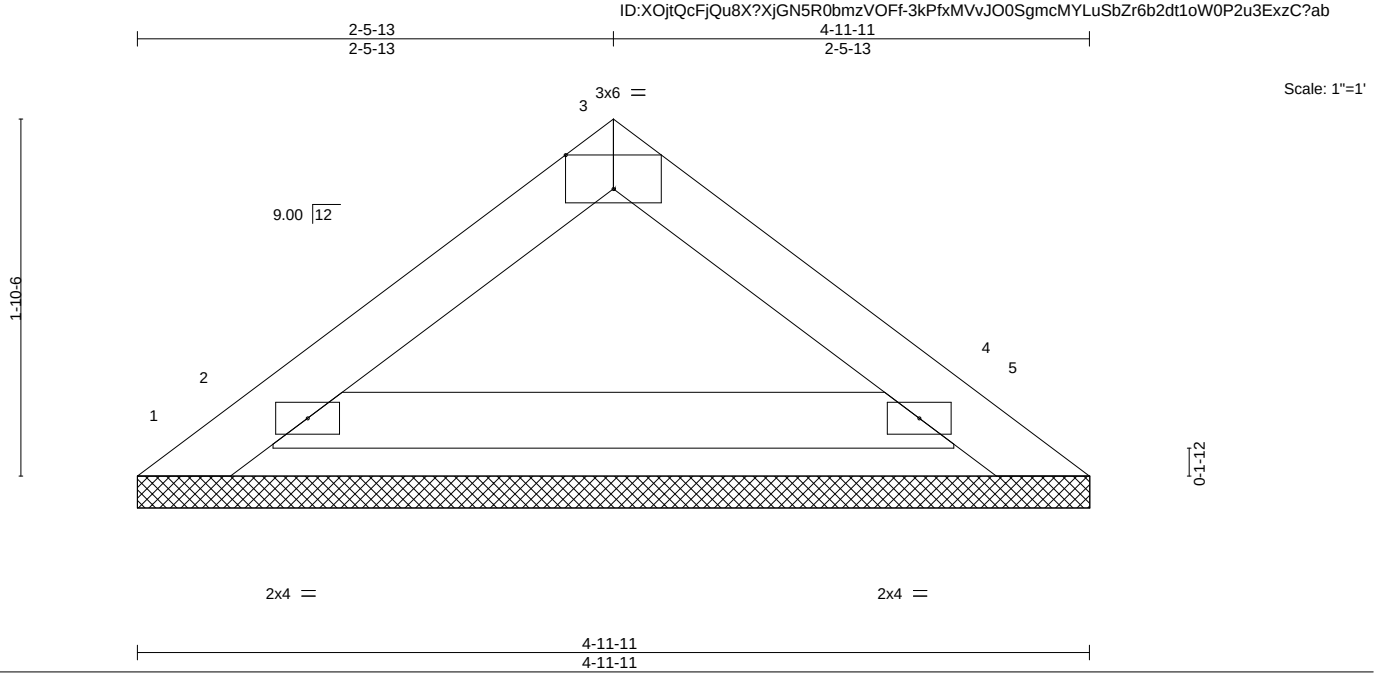

Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	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: 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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) 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	Truss	Truss Type	Qty	Ply	H&H/Wilmington/
654049_130mph	PB07	GABLE	2	1	I37223297
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:03:53 2019 Page 1
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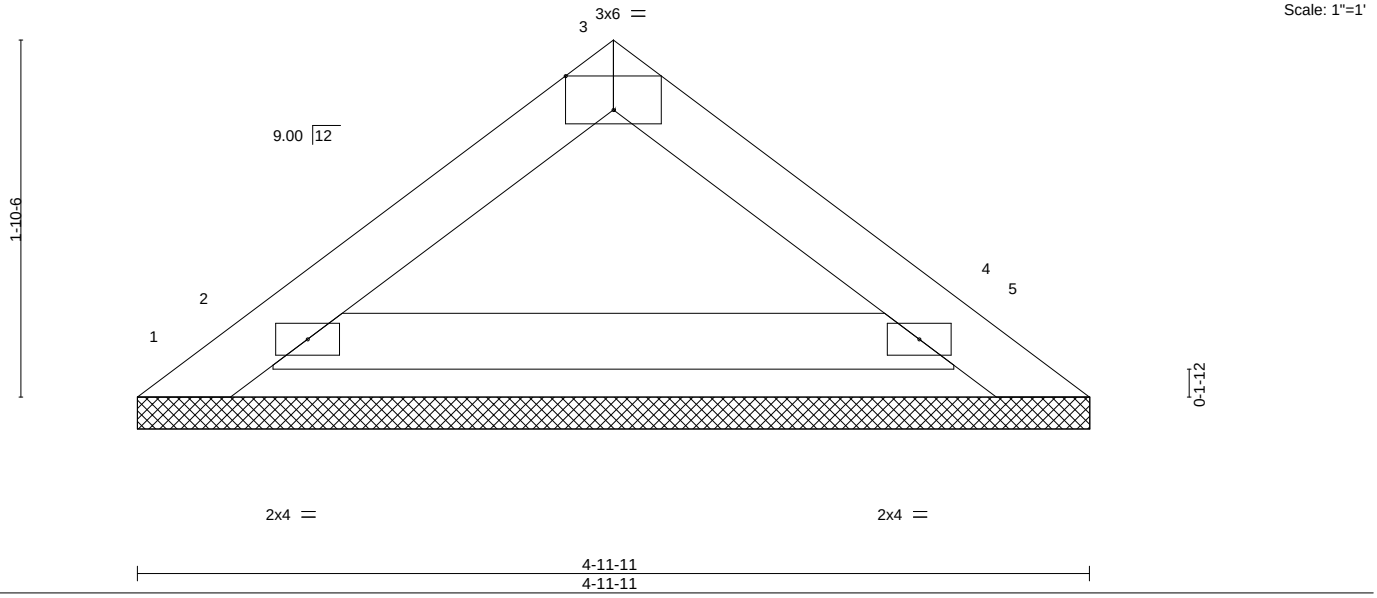

Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	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: 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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) 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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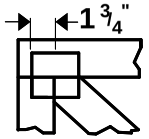
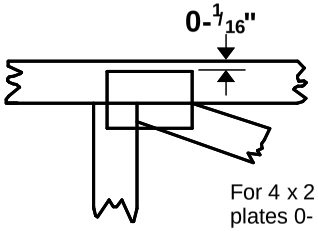
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

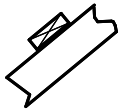
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

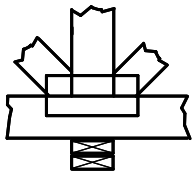
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

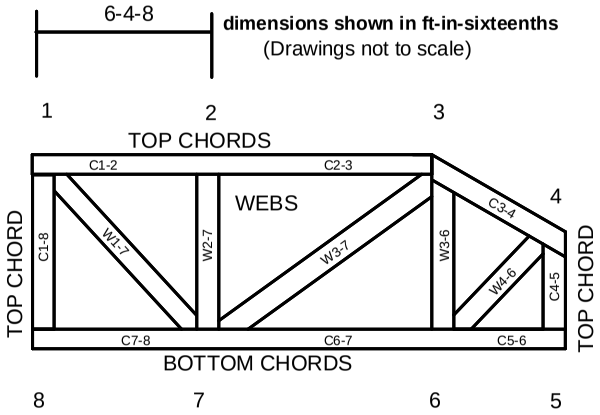


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

MiTek®

ENGINEERING BY TRENCO
A MiTek Affiliate

MiTek Engineering Reference Sheet: MII-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.