

RE: 2167669_ofa - H&H/Venture/Lot11/NewHorizons/Lillingto

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Project Customer: a and g residential Project Name: 2167669
 Lot/Block: Subdivision:
 Model:
 Address:
 City: State: nc

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.2
 Wind Code: ASCE 7-10 Wind Speed: 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

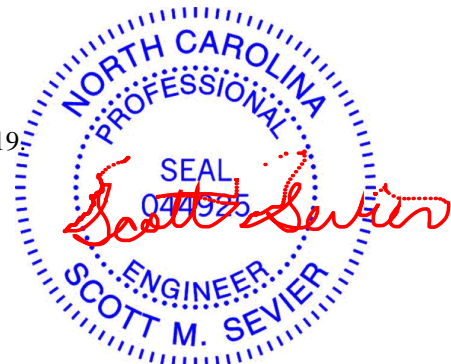
No.	Seal#	Truss Name	Date
1	I39406664	A02	11/25/19
2	I39406665	A03	11/25/19
3	I39406666	A04	11/25/19
4	I39406667		11/25/19
5	I39406668	A06	11/25/19
6	I39406669	A07	11/25/19
7	I39406670	A08	11/25/19
8	I39406671	A09	11/25/19
9	I39406672	A10	11/25/19
10	I39406673	A11	11/25/19
11	I39406674	A12	11/25/19
12	I39406675	A13	11/25/19
13	I39406676		11/25/19
14	I39406677	A15	11/25/19
	I39406678	A16	11/25/19
16	I39406679	A17	11/25/19
17	I39406680	A18	11/25/19
18	I39406681	C01	11/25/19
19	I39406682	C02	11/25/19
20	I39406683		11/25/19
21	I39406684	H01	11/25/19
22	I39406685	H02	11/25/19
23	I39406686	H03	11/25/19
	I39406687	J01	11/25/19
25	I39406688	J01A	11/25/19
26	I39406689	J02	11/25/19
27	I39406690	J02A	11/25/19
28	I39406691	J03	11/25/19
29	I39406692	J03A	11/25/19
30	I39406693	J04	11/25/19
31	I39406694	J10	11/25/19

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

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of North Carolina is December 31, 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.



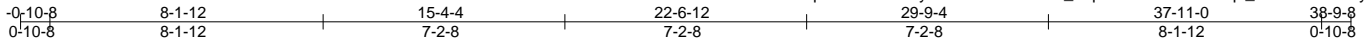
November 25, 2019

Job	Truss	Truss Type	Qty	Ply	H&H/Venture/Lot11/NewHorizons/Lillingto	139406664
2167669_ofa	A02	HIP	1	1		

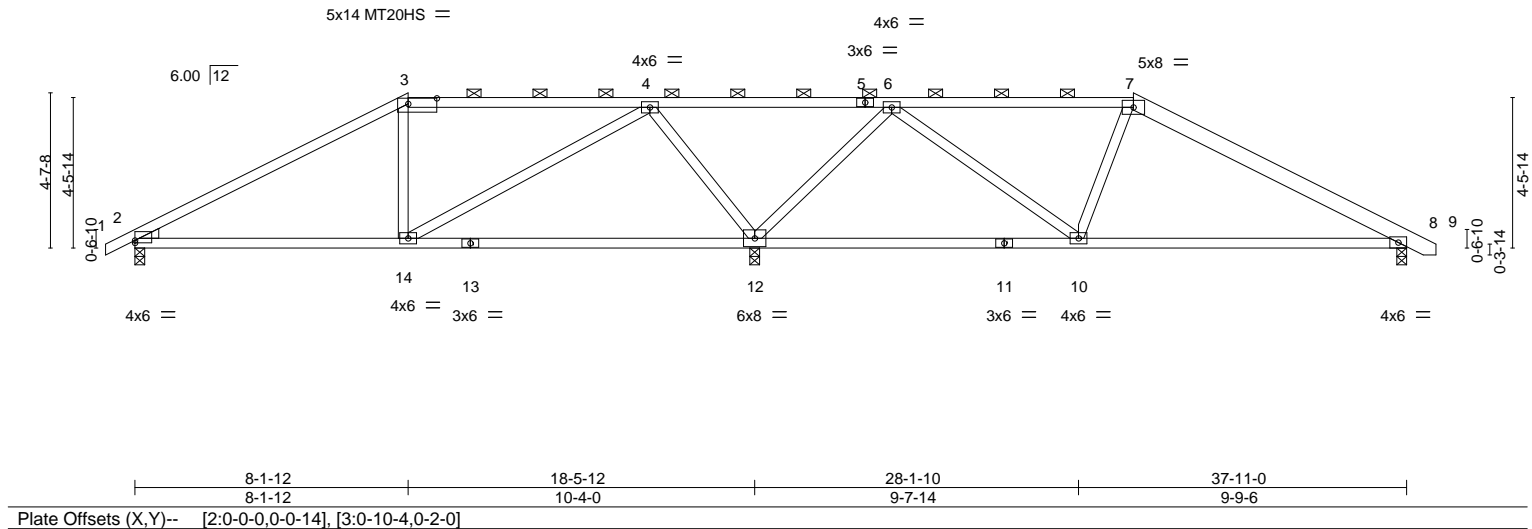
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:31 2019 Page 1

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Scale = 1:68.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.76	Vert(LL) -0.20 12-14 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.74	Vert(CT) -0.38 12-14 >577 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) -0.02 2 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.13 14-17 >999 240	Weight: 179 lb	FT = 20%

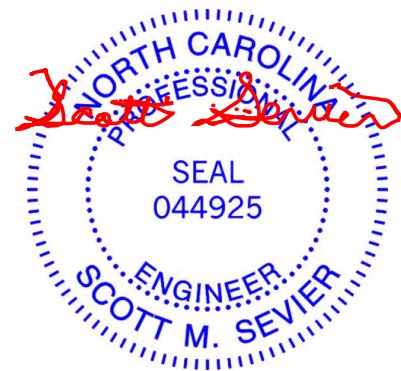
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
7-9: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. (lb/size) 2=683/0-3-8, 12=1728/0-3-8, 8=715/0-3-8
Max Horz 2=101(LC 16)
Max Uplift 2=-233(LC 12), 12=-491(LC 9), 8=-233(LC 13)
Max Grav 2=686(LC 23), 12=1728(LC 1), 8=715(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-870/393, 3-4=-692/451, 4-6=-124/521, 6-7=-685/426, 7-8=-880/433
BOT CHORD 2-14=-185/687, 10-12=-110/266, 8-10=-227/731
WEBS 4-14=-161/662, 4-12=-964/468, 6-12=-1063/485, 6-10=-75/547

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2, 491 lb uplift at joint 12 and 233 lb uplift at joint 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25, 2019

Job 2167669_0fa	Truss A03	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto 139406665
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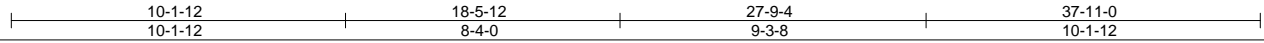
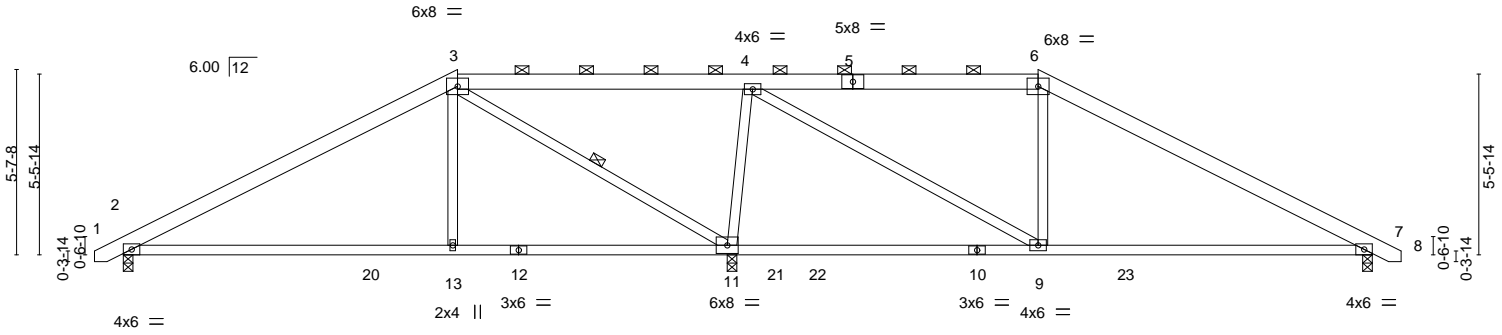
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:32 2019 Page 1

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Scale = 1:69.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.15 13-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.35 13-16	>629	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.02 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.16 13-16	>999	240	Weight: 206 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, except 2-0-0 oc purlins (6-0-0 max.): 3-6.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 3-11

REACTIONS. (lb/size) 2=745/0-3-8, 11=1583/0-3-8, 7=787/0-3-8
 Max Horz 2=120(LC 12)
 Max Uplift 2=-251(LC 12), 11=-410(LC 9), 7=-280(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-861/447, 3-4=-60/273, 4-6=-790/550, 6-7=-956/471
 BOT CHORD 2-13=-212/700, 11-13=-214/694, 7-9=-236/784
 WEBS 3-13=0/372, 3-11=-888/299, 4-11=-992/483, 4-9=-270/859

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 2, 410 lb uplift at joint 11 and 280 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25, 2019

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

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



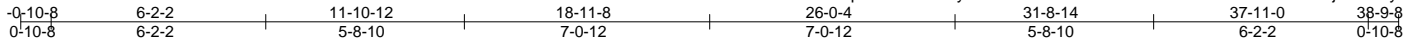
818 Soundside Road
 Edenton, NC 27932

Job 2167669_ofa	Truss A04	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406666
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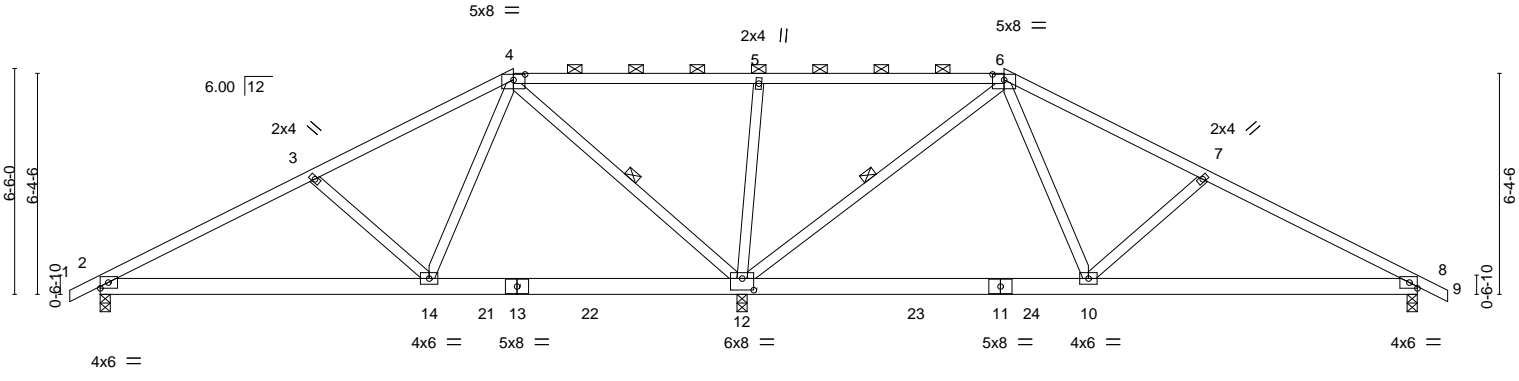
Builders FirstSource, Sumter, SC - 29153,

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Scale = 1:66.3



	9-5-10	18-5-12	28-5-6	37-11-0
	9-5-10	9-0-2	9-11-10	9-5-10

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

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 0.75	Vert(LL)	-0.06 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.12 14-17	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.04 14-17	>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

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

REACTIONS. (lb/size) 2=630/0-3-8, 12=1829/0-3-8, 8=678/0-3-8
 Max Horz 2=-142(LC 13)
 Max Uplift 2=-203(LC 12), 12=-381(LC 9), 8=-229(LC 13)
 Max Grav 2=661(LC 23), 12=1829(LC 1), 8=708(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-861/349, 3-4=-588/259, 4-5=-76/440, 5-6=-49/400, 6-7=-694/295, 7-8=-966/384
 BOT CHORD 2-14=-273/712, 12-14=-29/315, 10-12=0/371, 8-10=-218/805
 WEBS 3-14=-351/343, 4-14=-143/519, 4-12=-897/424, 5-12=-474/322, 6-12=-913/417, 6-10=-132/547, 7-10=-347/343

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 2, 381 lb uplift at joint 12 and 229 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25, 2019

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Venture/Lot11/NewHorizons/Lillingto	139406667
2167669_ofa	A05	Hip	1	1		

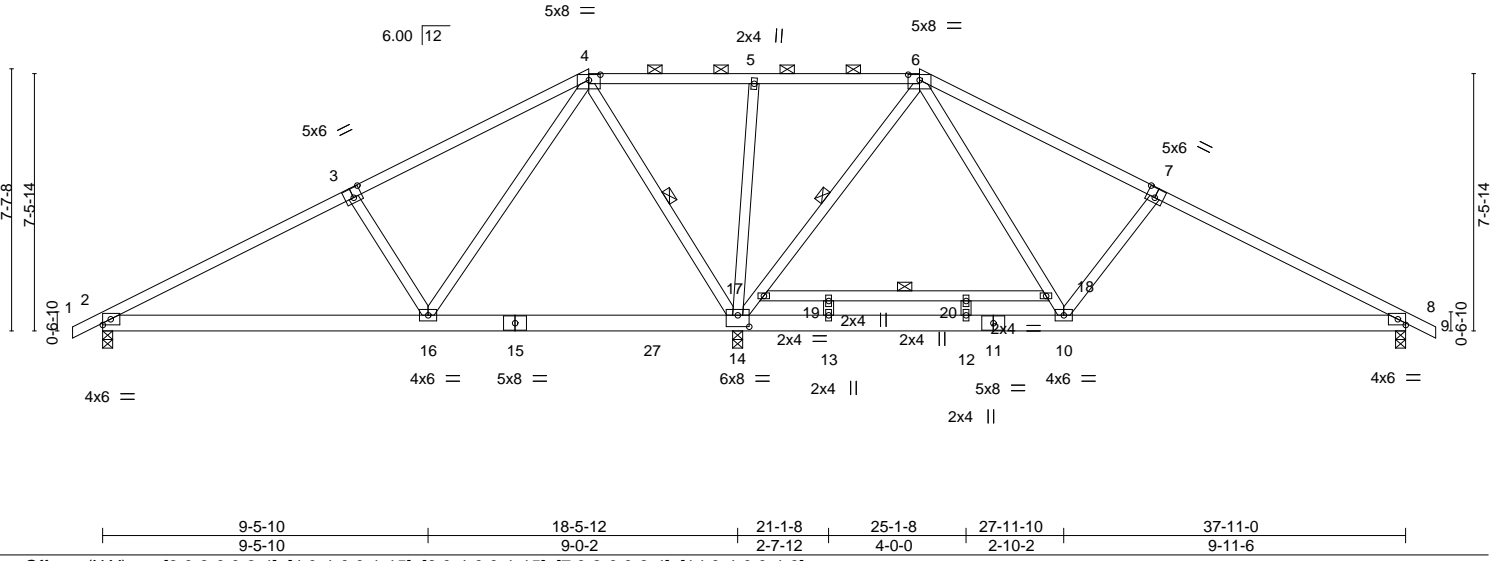
Builders FirstSource, Sumter, SC - 29153,

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0-10-8	7-3-10	14-1-12	18-11-8	23-9-4	30-7-6	37-11-0	38-9-8
0-10-8	7-3-10	6-10-2	4-9-12	4-9-12	6-10-2	7-3-10	0-10-8

Scale = 1:67.0



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 0.49	Vert(LL)	-0.07 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.15 10-26	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.01 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.06 10-26	>999	240	Weight: 238 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (10-0-0 max.): 4-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 4-14, 6-14, 17-18

REACTIONS. (lb/size) 2=589/0-3-8, 14=1909/0-3-8, 8=639/0-3-8
 Max Horz 2=-168(LC 13)
 Max Uplift 2=-203(LC 12), 14=-344(LC 12), 8=-237(LC 13)
 Max Grav 2=635(LC 23), 14=1909(LC 1), 8=682(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-773/299, 3-4=-561/306, 4-5=-53/502, 5-6=-41/482, 6-7=-616/314, 7-8=-865/342
 BOT CHORD 2-16=-258/620, 14-16=-113/284, 8-10=-162/703
 WEBS 3-16=-411/400, 4-16=-301/685, 4-14=-875/442, 14-17=-922/443, 6-17=-885/432,
 6-18=-263/657, 10-18=-257/635, 7-10=-415/403, 5-14=-297/210

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 2, 344 lb uplift at joint 14 and 237 lb uplift at joint 8.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25, 2019

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

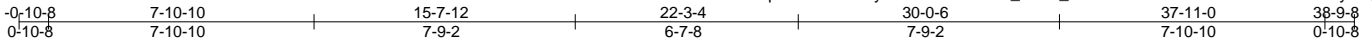
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Venture/Lot11/NewHorizons/Lillingto	139406668
2167669_ofa	A06	Hip	1	1		

Builders FirstSource, Sumter, SC - 29153,

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Scale = 1:68.4

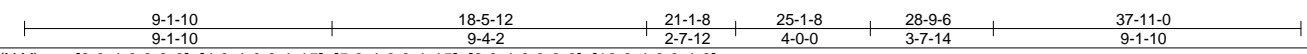
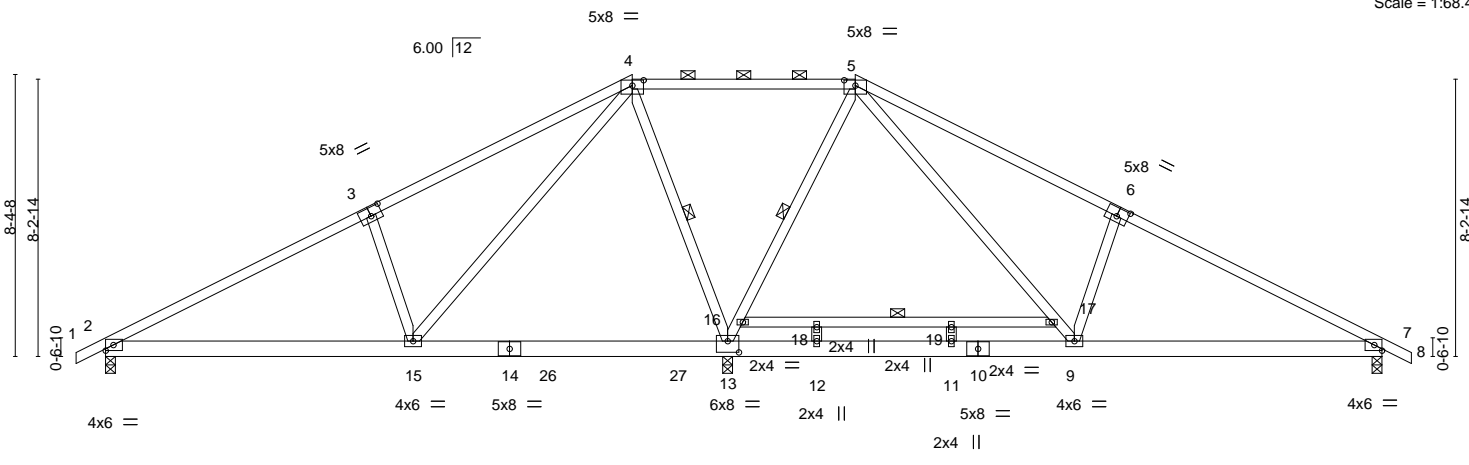


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-4-0,0-1-15], [5:0-4-0,0-1-15], [6:0-4-0,0-3-0], [13:0-4-0,0-4-0]

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 0.58	Vert(LL)	-0.09	13-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.19	11-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08	9-25	>999		
								Weight: 235 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 (10-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-13, 5-13, 16-17

REACTIONS.

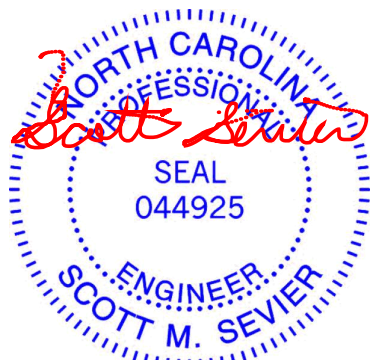
(lb/size) 2=558/0-3-8, 13=2124/0-3-8, 7=656/0-3-8
 Max Horz 2=184(LC 12)
 Max Uplift 2=-225(LC 12), 13=-182(LC 12), 7=-218(LC 13)
 Max Grav 2=611(LC 23), 13=2124(LC 1), 7=709(LC 24)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-702/350, 3-4=-571/457, 4-5=0/525, 5-6=-812/358, 6-7=-945/250
 BOT CHORD 2-15=-306/551, 13-15=-254/288, 12-13=-117/273, 11-12=-117/273, 9-11=-117/273, 7-9=-78/765
 WEBS 3-15=-454/447, 4-15=-465/816, 4-13=-946/495, 13-16=-1041/409, 5-16=-1007/423, 5-17=-303/977, 9-17=-317/933, 6-9=-443/454

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) 200.0lb AC unit load placed on the bottom chord, 23-1-8 from left end, supported at two points, 4-0-0 apart.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2, 182 lb uplift at joint 13 and 218 lb uplift at joint 7.
- 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.



November 25, 2019

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

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

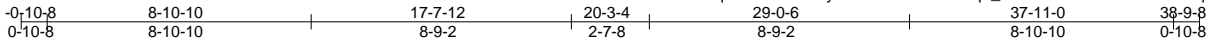


818 Soundside Road
 Edenton, NC 27932

Job 2167669_ofa	Truss A07	Truss Type Hip	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406669
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Builders FirstSource, Sumter, SC - 29153, 8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:37 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUyOt3D-T1s6mxJ0Wq0_DMW9Y0LY4hYCUEUk8qIfYK7EyFhie



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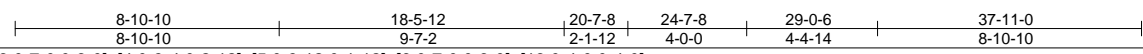
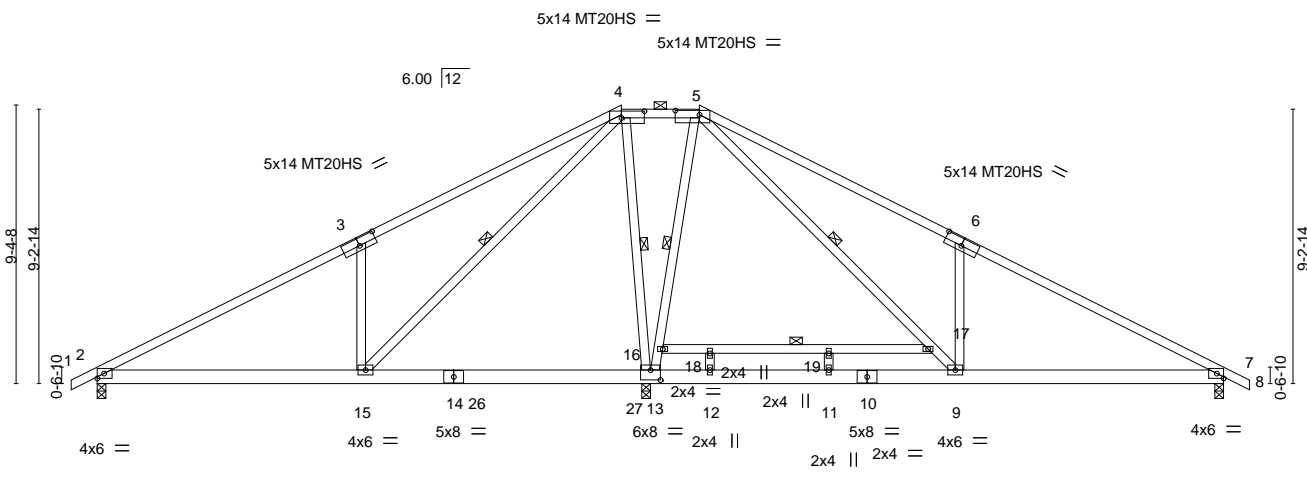


Plate Offsets (X, Y)--	[3:0-7-0,0-3-0], [4:0-9-4,0-2-12], [5:0-9-12,0-1-12], [6:0-7-0,0-3-0], [13:0-4-0,0-4-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.10	13-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.17	11-12	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.09	15-22	>999		
								Weight: 244 lb	FT = 20%

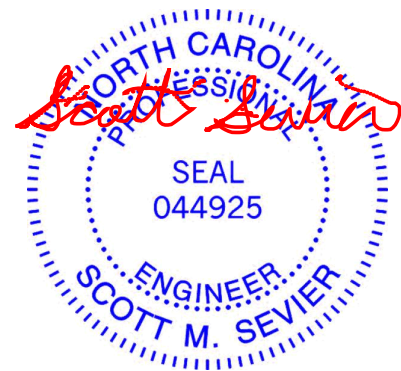
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (10-0-0 max.): 4-5.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
4-15,5-9: 2x4 SP No.2	WEBS 1 Row at midpt 4-15, 4-13, 5-13, 5-9, 16-17

REACTIONS. (lb/size) 2=532/0-3-8, 13=2209/0-3-8, 7=597/0-3-8
 Max Horz 2=207(LC 12)
 Max Uplift 2=-221(LC 12), 13=-227(LC 12), 7=-216(LC 13)
 Max Grav 2=595(LC 23), 13=2209(LC 1), 7=656(LC 24)

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

TOP CHORD	2-3=-650/307, 3-4=-664/588, 4-5=0/518, 5-6=-824/489, 6-7=-813/218
BOT CHORD	2-15=-288/495, 13-15=-410/410, 12-13=-336/392, 11-12=-336/392, 9-11=-336/392, 7-9=-46/638
WEBS	3-15=-568/556, 4-15=-696/1094, 4-13=-925/488, 13-16=-983/419, 5-16=-963/428, 5-17=-554/1240, 9-17=-564/1200, 6-9=-561/562

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 22-7-8 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 2, 227 lb uplift at joint 13 and 216 lb uplift at joint 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 2167669_ofa	Truss A08	Truss Type COMMON	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406670
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ID:be0DwDII4HqV12cDPs6iUyOt3D-T1s6mxJ0Wq0_DMW9Y0LY4hYGYEEMk3HifYK7DyFhie



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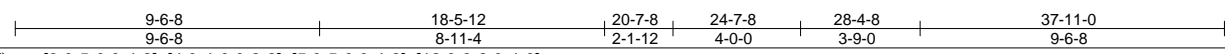
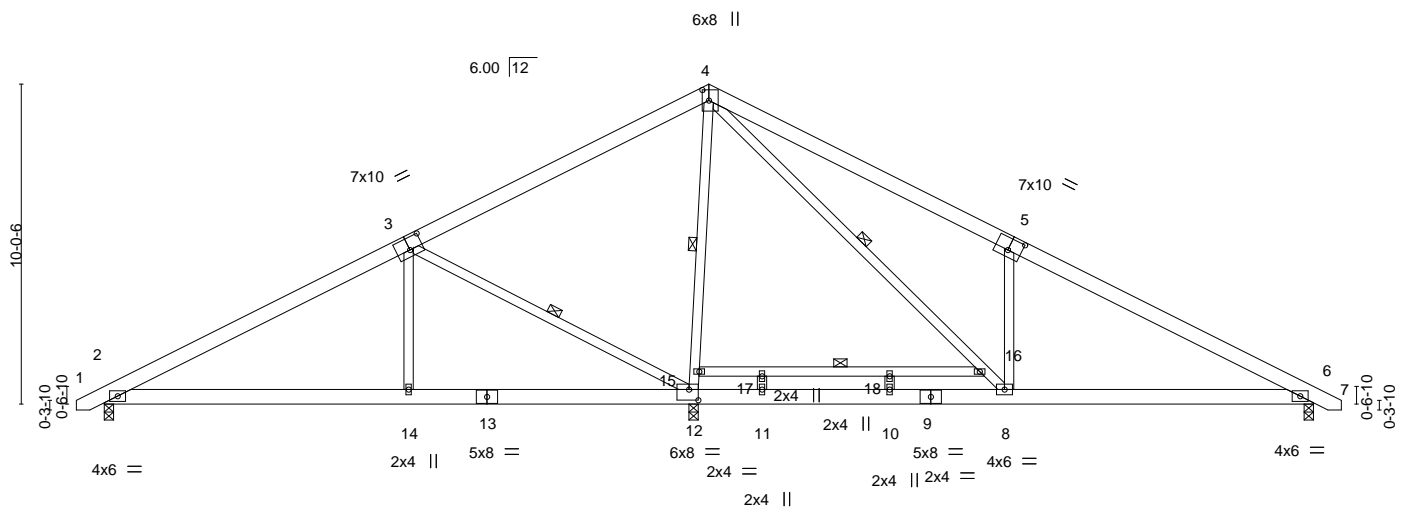


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [4:0-4-0,0-2-8], [5:0-5-0,0-4-8], [12:0-3-8,0-4-0]
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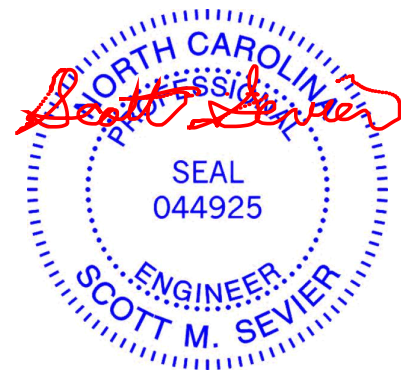
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.06	8-24	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.16	10-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.01	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.10	8-24	>999	Weight: 268 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 4-8: 2x4 SP No.2	WEBS 1 Row at midpt 4-12, 4-8, 3-12, 15-16

REACTIONS. (lb/size) 2=568/0-3-8, 12=2084/0-3-8, 6=661/0-3-8
 Max Horz 2=-221(LC 13)
 Max Uplift 2=-216(LC 12), 12=-243(LC 12), 6=-231(LC 13)
 Max Grav 2=611(LC 23), 12=2084(LC 1), 6=706(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-647/349, 3-4=-26/527, 4-5=-946/573, 5-6=-880/258
 BOT CHORD 2-14=-296/524, 12-14=-295/526, 11-12=-289/360, 10-11=-289/360, 8-10=-289/360,
 6-8=-73/727
 WEBS 12-15=-1353/551, 4-15=-1339/560, 4-16=-593/1342, 8-16=-599/1292, 5-8=-629/606,
 3-12=-930/601, 3-14=0/364

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 200.0lb AC unit load placed on the bottom chord, 22-7-8 from left end, supported at two points, 4-0-0 apart.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2, 243 lb uplift at joint 12 and 231 lb uplift at joint 6.
 - 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.



November 25, 2019

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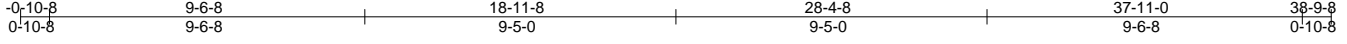
818 Soundside Road
 Edenton, NC 27932

Job 2167669_ofa	Truss A10	Truss Type COMMON	Qty 8	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto 139406672
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:39 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUYOt3D-PQ_tBdKH2RGiTfgYfRN0A6edJ2oaCxbw7s1RB7yFhic



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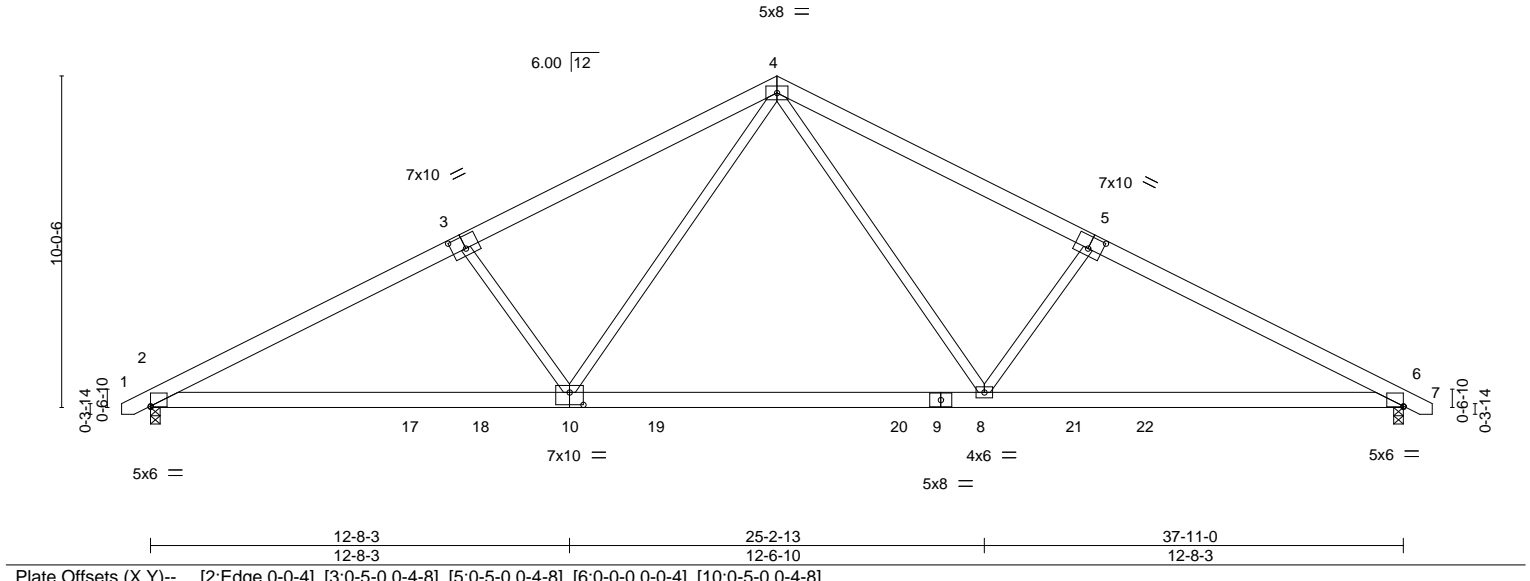


Plate Offsets (X,Y)--	[2:Edge,0-0-4], [3:0-5-0,0-4-8], [5:0-5-0,0-4-8], [6:0-0-0,0-0-4], [10:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.84	Vert(LL) -0.29 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.90	Vert(CT) -0.45 8-10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.08 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.15 10-13 >999 240	Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=1558/0-3-8, 6=1558/0-3-8
 Max Horz 2=-221(LC 13)
 Max Uplift 2=-422(LC 12), 6=-422(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2708/1183, 3-4=-2473/1164, 4-5=-2473/1164, 5-6=-2708/1183
 BOT CHORD 2-10=-885/2375, 8-10=-387/1565, 6-8=-887/2374
 WEBS 4-8=-364/1013, 5-8=-587/535, 4-10=-364/1013, 3-10=-587/535

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 422 lb uplift at joint 2 and 422 lb uplift at joint 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 25, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 2167669_ofa	Truss A11	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406673
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Builders FirstSource, Sumter, SC - 29153,

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ID:be0DwDII4HqVt2cDPs6iUUyOt3D-Lp6dclMXa3WPizqwnsPUFXjztsUCGxSuaAWYGYFhia

-0-10-8	9-1-10	18-1-12	19-9-4	28-9-6	37-11-0	38-9-8
0-10-8	9-1-10	9-0-2	1-7-8	9-0-2	9-1-10	0-10-8

Scale = 1:69.9

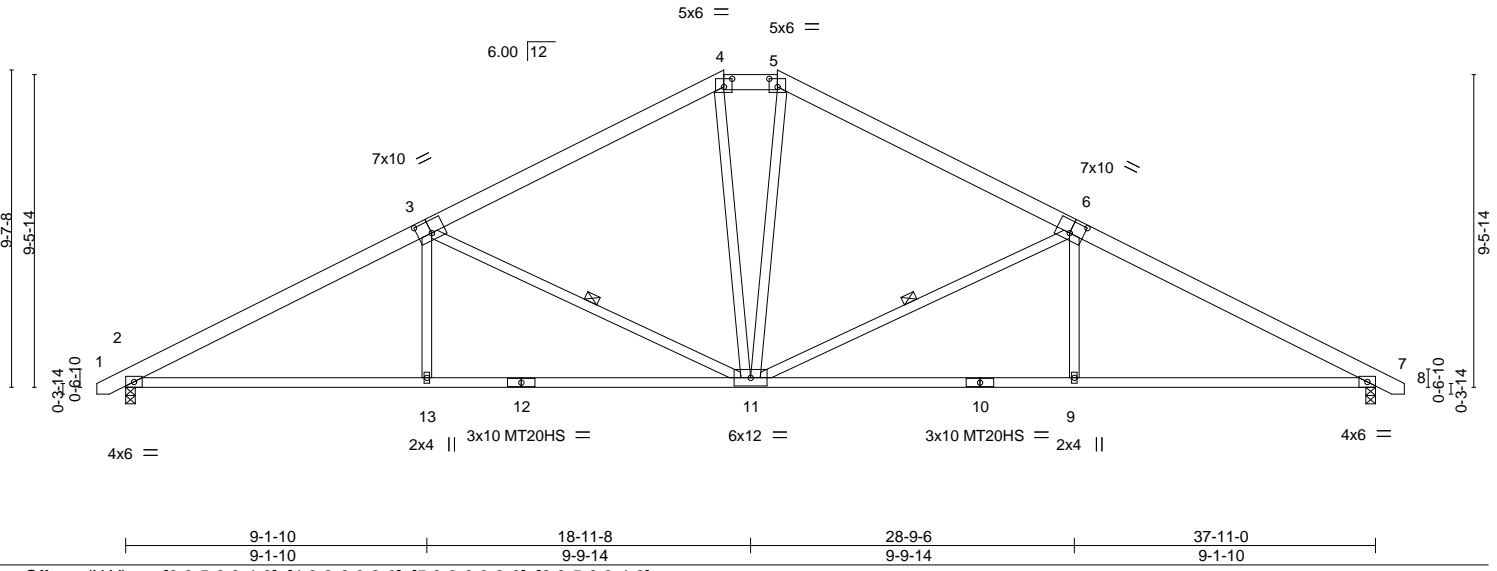


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [4:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.17 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.40 11-13	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.13 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.13 13-16	>999	240		Weight: 230 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2 *Except*	2-0-0 oc purlins (5-5-0 max.): 4-5.
10-12: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-11, 6-11

REACTIONS. (lb/size) 2=1558/0-3-8, 7=1558/0-3-8
 Max Horz 2=211(LC 12)
 Max Uplift 2=415(LC 12), 7=415(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2717/1143, 3-4=-1877/908, 4-5=-1612/925, 5-6=-1877/908, 6-7=-2717/1143
 BOT CHORD 2-13=-857/2339, 11-13=-858/2337, 9-11=-860/2337, 7-9=-859/2339
 WEBS 3-13=0/372, 3-11=-871/539, 4-11=-182/538, 5-11=-181/538, 6-11=-871/539, 6-9=0/372

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 415 lb uplift at joint 2 and 415 lb uplift at joint 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 2167669_ofa	Truss A12	Truss Type Hip	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406674
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:42 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUyOt3D-p?g?peM9KMeGK7O7KawjnlG2qFqKPS82pqG5oSyFhiZ

0-10-8	8-1-10	16-1-12	21-9-4	29-9-6	37-11-0	38-9-8
0-10-8	8-1-10	8-0-2	5-7-8	8-0-2	8-1-10	0-10-8

Scale = 1:67.0

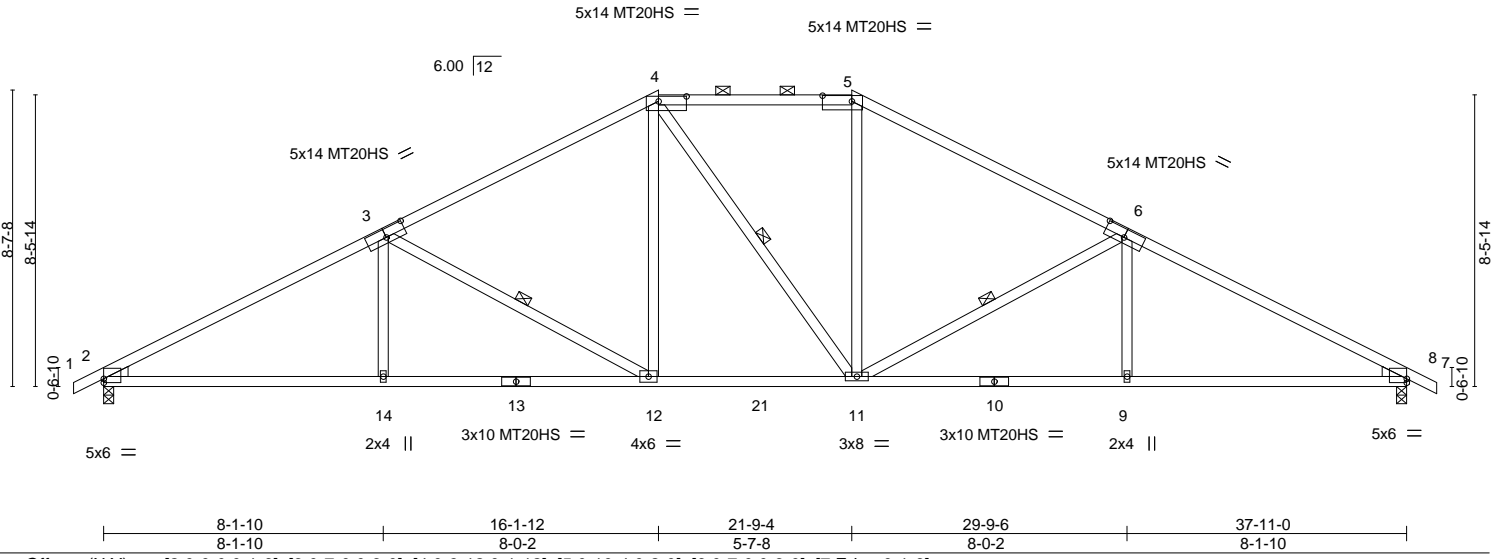


Plate Offsets (X,Y)--	[2:0-0,0-1-6], [3:0-7-0,0-3-0], [4:0-9-12,0-1-12], [5:0-10-4,0-2-0], [6:0-7-0,0-3-0], [7:Edge,0-1-6]
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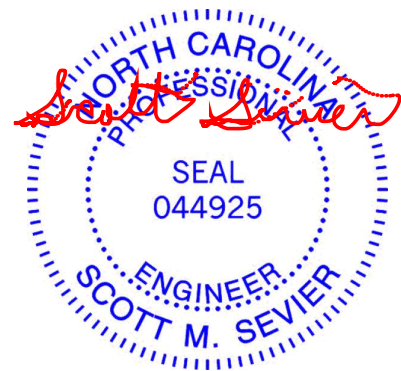
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.16	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.39	12-14	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.14	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.15	12-14	>999		Weight: 199 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-1-9 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 3-12, 4-11, 6-11
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1569/0-3-8, 7=1569/0-3-8
 Max Horz 2=190(LC 12)
 Max Uplift 2=401(LC 12), 7=401(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2715/1125, 3-4=-2052/957, 4-5=-1733/940, 5-6=-2053/957, 6-7=-2715/1124
 BOT CHORD 2-14=-846/2329, 12-14=-847/2328, 11-12=-457/1733, 9-11=-850/2328, 7-9=-849/2328
 WEBS 3-14=0/315, 3-12=-685/446, 4-12=-136/510, 5-11=-136/510, 6-11=-685/445, 6-9=0/315

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 401 lb uplift at joint 2 and 401 lb uplift at joint 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.
 - 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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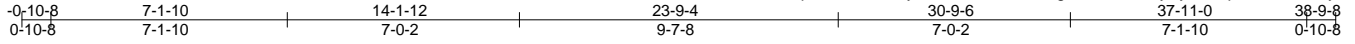
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	H&H/Venture/Lot11/NewHorizons/Lillingto	139406675
2167669_ofa	A13	HIP	1	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:be0DwDII4HqVt2cDPs6iUUyOt3D-HBEO1_Nn5gm7xHzJuHRyKyoFlfCp8r5B2U?#KuyFHiY



Scale = 1:69.6

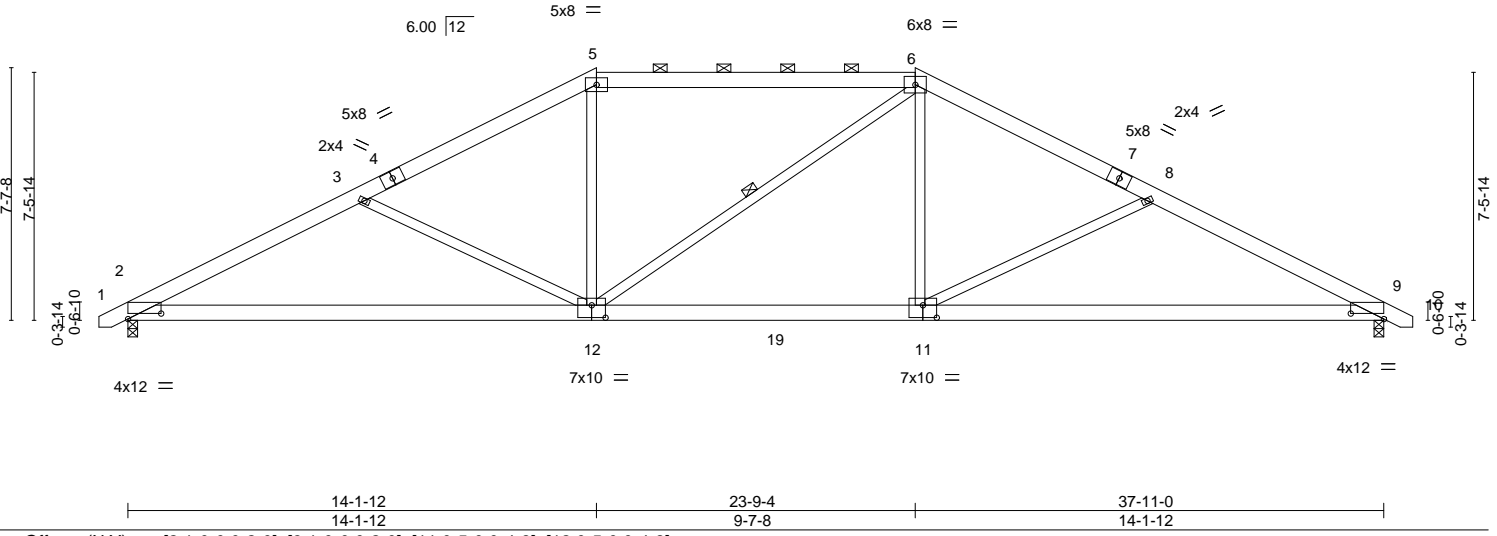


Plate Offsets (X,Y)--	[2:1-0-0,0-2-0], [9:1-0-0,0-2-0], [11:0-5-0,0-4-8], [12:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.21 12-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(CT)	-0.47 12-15	>965	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.08 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.11 12-15	>999	240	Weight: 250 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-0-14 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 6-12

REACTIONS. (lb/size) 2=1558/0-3-8, 9=1558/0-3-8
 Max Horz 2=-165(LC 13)
 Max Uplift 2=-373(LC 12), 9=-373(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2747/1214, 3-5=-2305/989, 5-6=-1977/975, 6-8=-2308/992, 8-9=-2748/1214
 BOT CHORD 2-12=-942/2426, 11-12=-556/1974, 9-11=-944/2426
 WEBS 3-12=-495/433, 5-12=-56/584, 6-11=-58/583, 8-11=-493/432

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 373 lb uplift at joint 2 and 373 lb uplift at joint 9.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Venture/Lot11/NewHorizons/Lillingto	139406676
2167669_0fa	A14	Hip	1	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:be0DwDII4HqV12cDPs6iUUyOt3D-mOomEKOPs_v_ZQYVS_zBsALQ73U5tLGKH8lCsKyFhIX

0-10-8	6-1-10	12-1-12	18-11-8	25-9-4	31-9-6	37-11-0	38-9-8
0-10-8	6-1-10	6-0-2	6-9-12	6-9-12	6-0-2	6-1-10	0-10-8

Scale = 1:66.3

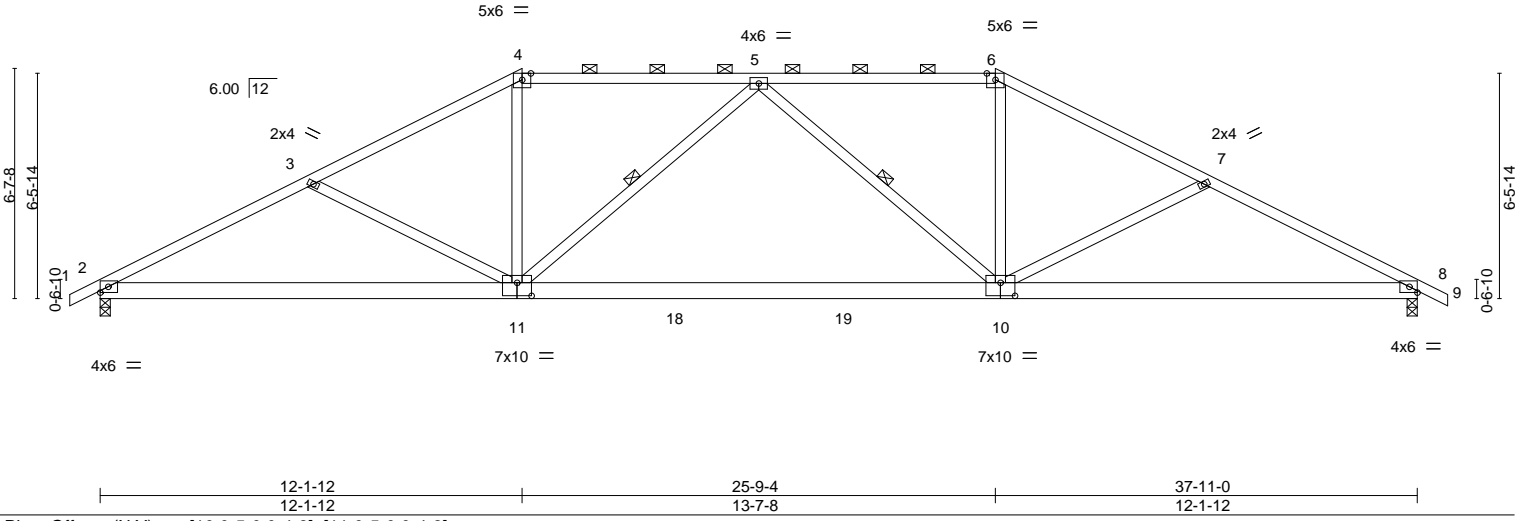


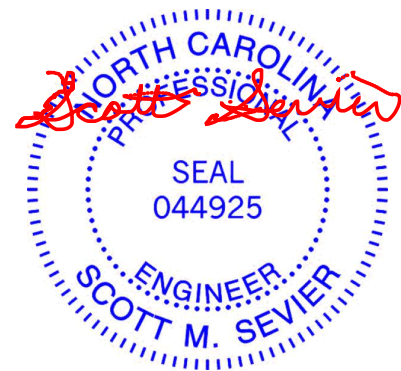
Plate Offsets (X,Y)--	[10:0-5-0,0-4-8], [11:0-5-0,0-4-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.38 10-11 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.67 10-11 >680 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.32	Horz(CT) 0.09 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.16 10-11 >999 240	Weight: 216 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (3-4-13 max.): 4-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 5-11, 5-10

REACTIONS. (lb/size) 2=1569/0-3-8, 8=1569/0-3-8
 Max Horz 2=145(LC 12)
 Max Uplift 2=-354(LC 12), 8=-354(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2784/1183, 3-4=-2422/992, 4-5=-2089/956, 5-6=-2089/956, 6-7=-2422/992,
 7-8=-2784/1183
 BOT CHORD 2-11=-926/2425, 10-11=-765/2355, 8-10=-929/2425
 WEBS 3-11=-369/379, 4-11=-164/689, 5-11=-483/300, 5-10=-483/300, 6-10=-164/689,
 7-10=-369/379

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 354 lb uplift at joint 2 and 354 lb uplift at joint 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25, 2019

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Job 2167669_ofa	Truss A15	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406677
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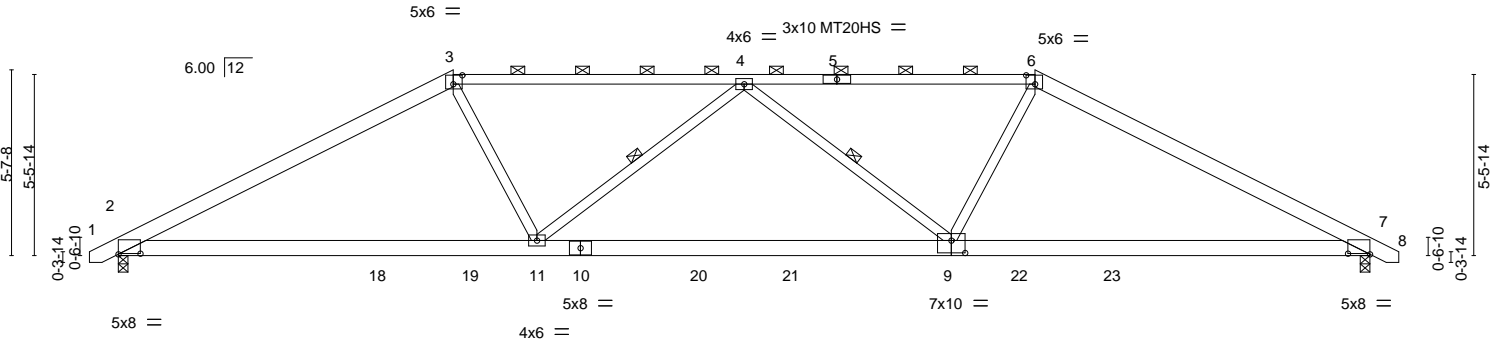
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:45 2019 Page 1

ID:be0DwDII4HqV12cDPs6iUyOt3D-EaL8SgP2dH1rBa7h0iUQPNUx0TsQcpuUVoUIPnyFhiW

0-10-8	10-1-12	18-11-8	27-9-4	37-11-0	38-9-8
0-10-8	10-1-12	8-9-12	8-9-12	10-1-12	0-10-8

Scale = 1:69.8



	12-8-3	25-2-13	37-11-0
	12-8-3	12-6-10	12-8-3
Plate Offsets (X,Y)--	[2:0-8-0,0-0-4], [3:0-3-4,0-3-4], [6:0-3-4,0-3-4], [7:0-8-0,0-0-4], [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 0.87	Vert(LL)	-0.17 11-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.39 11-14	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.09 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.21 11-14	>999	240		Weight: 212 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5,5-6: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-2-0 max.): 3-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-11, 4-9

REACTIONS. (lb/size) 2=1558/0-3-8, 7=1558/0-3-8
 Max Horz 2=-121(LC 13)
 Max Uplift 2=-319(LC 12), 7=-319(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2607/1036, 3-4=-2534/1068, 4-6=-2534/1068, 6-7=-2607/1036
 BOT CHORD 2-11=-731/2260, 9-11=-988/2870, 7-9=-732/2260
 WEBS 3-11=-73/718, 4-11=-545/360, 4-9=-545/360, 6-9=-73/718

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 2 and 319 lb uplift at joint 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25, 2019

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 2167669_ofa	Truss A16	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto 139406678
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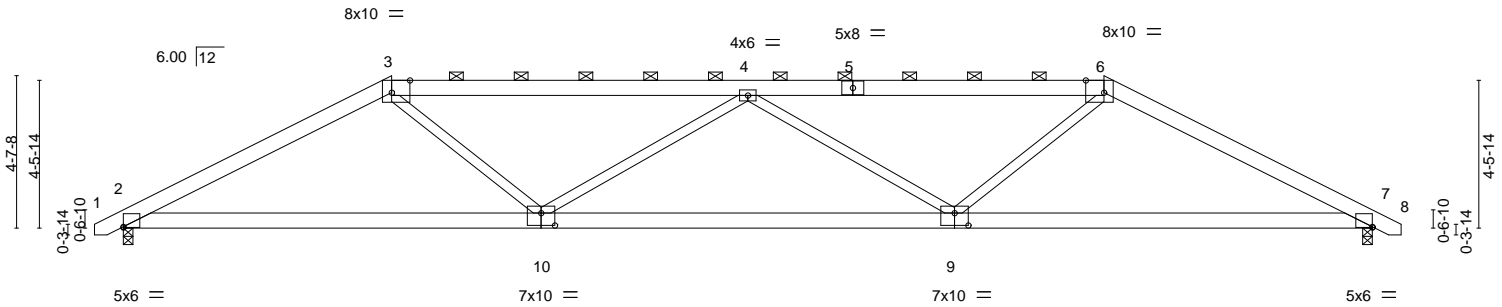
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:46 2019 Page 1

ID:be0DwDII4HqV12cDPS6iUyOt3D-imvWf0QgOb9ipkiuZP?fybQITtCYL7kdkREJxDyFhiV



Scale = 1:69.9



	12-8-3 12-8-3	25-2-13 12-6-10	37-11-0 12-8-3
Plate Offsets (X,Y)--	[2:0-0-0,0-0-4], [3:0-6-10,Edge], [6:0-6-10,Edge], [7:0-0-0,0-0-4], [9:0-5-0,0-4-8], [10:0-5-0,0-4-8]		

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.16	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.40	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.11	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.21	9-10	>999	Weight: 226 lb	FT = 20%

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

REACTIONS. (lb/size) 2=1558/0-3-8, 7=1558/0-3-8
Max Horz 2=98(LC 13)
Max Uplift 2=359(LC 9), 7=359(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2754/1117, 3-4=-3126/1209, 4-6=-3126/1209, 6-7=-2756/1118
BOT CHORD 2-10=-846/2427, 9-10=-1346/3692, 7-9=-848/2430
WEBS 3-10=-166/983, 4-10=-759/503, 4-9=-758/503, 6-9=-166/981

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 2 and 359 lb uplift at joint 7.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25, 2019

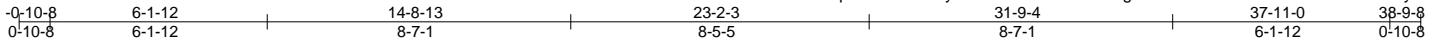
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2167669_ofa	Truss A17	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Venture/Lot11/NewHorizons/Lillingto	139406679
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Builders FirstSource, Sumter, SC - 29153,

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ID:be0DwDII4HqVt2cDPs6iUUyOt3D-6LbfH2SYhWXHgCRTFYfYMZD2Fo4CCYVs3QPSzYyFHiS



Scale = 1:65.2

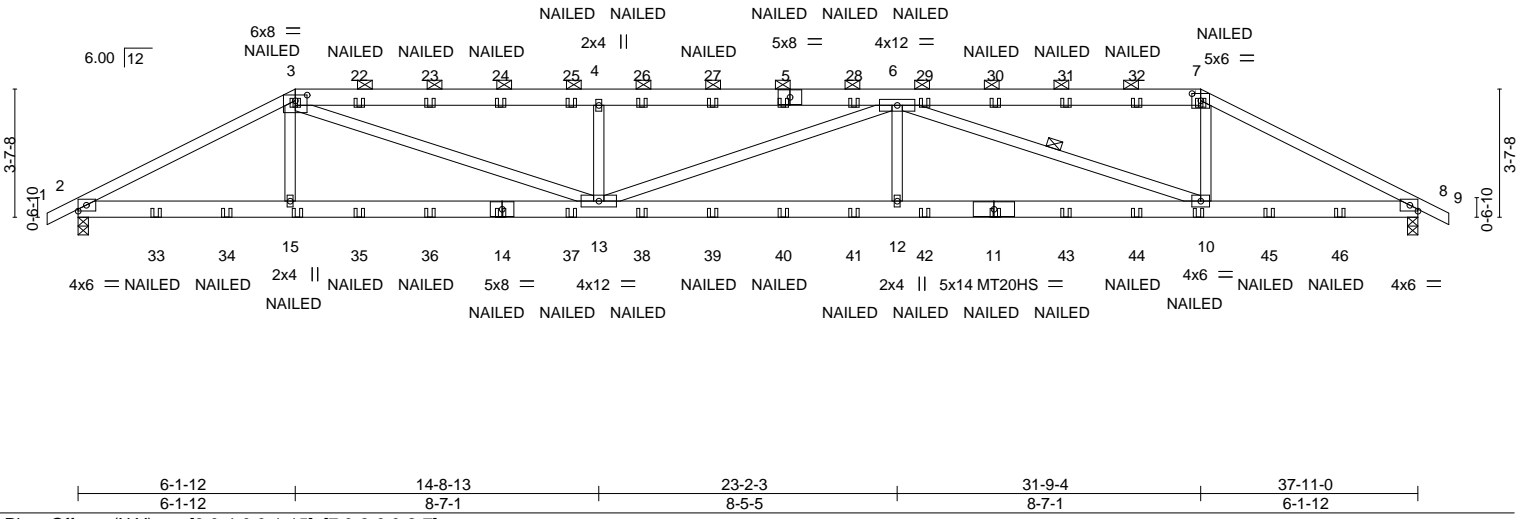


Plate Offsets (X,Y)--	[3:0-4-0,0-1-15], [7:0-3-0,0-2-7]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) 0.54 12-13 >844 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.63 12-13 >719 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.81	Horz(CT) 0.13 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			
				Weight: 456 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-5: 2x6 SP No.1, 5-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-5 oc purlins, except 2-0-0 oc purlins (4-6-8 max.): 3-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-1-13 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-10

REACTIONS. (lb/size) 2=2959/0-3-8, 8=2961/0-3-8
Max Horz 2=79(LC 12)
Max Uplift 2=-1523(LC 8), 8=-1525(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5583/2974, 3-4=-8876/5050, 4-6=-8872/5046, 6-7=-4853/2667, 7-8=-5591/2979
BOT CHORD 2-15=-2632/4922, 13-15=-2637/4906, 12-13=-4973/8869, 10-12=-4973/8869, 8-10=-2591/4930
WEBS 3-15=0/527, 3-13=-2579/4311, 4-13=-1173/1086, 6-12=0/583, 6-10=-4352/2610, 7-10=-758/1801

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1523 lb uplift at joint 2 and 1525 lb uplift at joint 8.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

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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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 2167669_ofa	Truss A17	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Venture/Lot11/NewHorizons/Lillingto I39406679 Job Reference (optional)
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8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:49 2019 Page 2
ID:be0DwDII4HqVt2cDPs6iUUyOt3D-6LbfH2SYhWXHgCRTFYMMZD2Fo4CCYVs3QPSzYYyFhiS

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 7-9=-60, 16-19=-20

Concentrated Loads (lb)

Vert: 3=-124(B) 5=-124(B) 7=-124(B) 14=-37(B) 15=-37(B) 10=-37(B) 11=-37(B) 22=-124(B) 23=-124(B) 24=-124(B) 25=-124(B) 26=-124(B) 27=-124(B) 28=-124(B) 29=-124(B) 30=-124(B) 31=-124(B) 32=-124(B) 33=-103(B) 34=-161(B) 35=-37(B) 36=-37(B) 37=-37(B) 38=-37(B) 39=-37(B) 40=-37(B) 41=-37(B) 42=-37(B) 43=-37(B) 44=-37(B) 45=-161(B) 46=-103(B)

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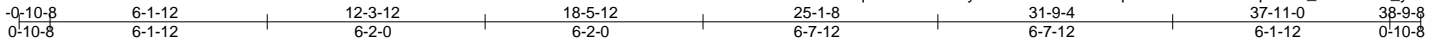
818 Soundside Road
Edenton, NC 27932

Job 2167669_ofa	Truss A18	Truss Type Hip Girder	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406680
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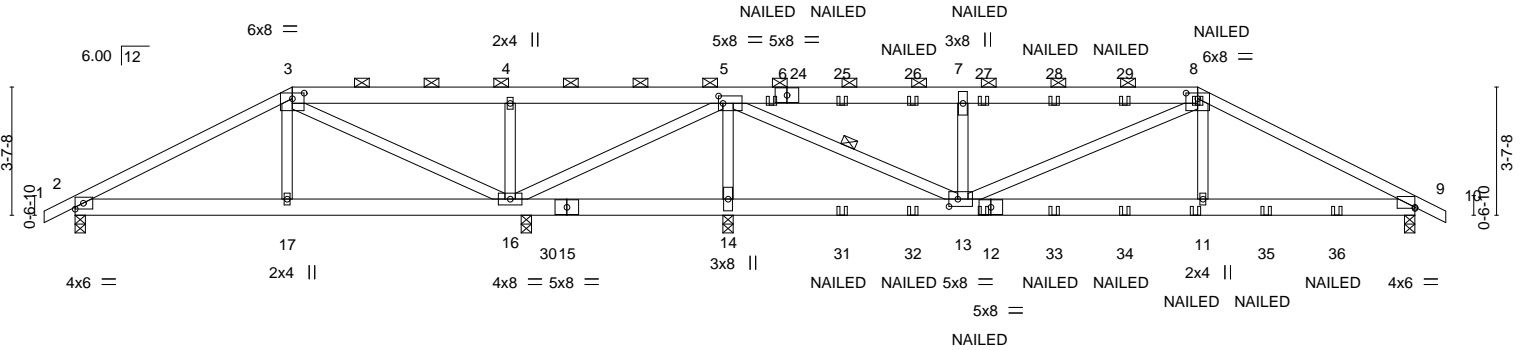
Builders FirstSource, Sumter, SC - 29153,

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ID:be0DwDII4HqVt2cDPs6iUUYOt3D-aX91VNTASqf8HL0foF3b6RbTqUcDH_VDF3CW4_yFhIR



Scale = 1:65.2



6-1-12	12-3-12	12-7-8	18-5-12	25-1-8	31-9-4	37-11-0
6-1-12	6-2-0	0-3-12	5-10-4	6-7-12	6-7-12	6-1-12

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

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 0.55	Vert(LL)	0.11 11-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.14 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.01 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 233 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-6,6-8: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-14 oc purlins, except 2-0-0 oc purlins (4-10-3 max.): 3-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-13

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=79(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-106(LC 8), 16=-503(LC 5), 14=-1469(LC 4), 9=-660(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 2=429(LC 19), 16=687(LC 19), 14=2044(LC 1), 9=1336(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-493/18, 3-4=-162/404, 4-5=-164/403, 5-7=-1756/1021, 7-8=-1761/1025, 8-9=-2145/1097
 BOT CHORD 2-17=0/447, 16-17=0/439, 14-16=-618/368, 13-14=-618/368, 11-13=-871/1831, 9-11=-870/1849
 WEBS 3-17=0/280, 3-16=-786/211, 4-16=-356/226, 5-14=-1840/1151, 5-13=-1413/2630, 7-13=-903/868, 8-11=-13/519

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 2, 503 lb uplift at joint 16, 1469 lb uplift at joint 14 and 660 lb uplift at joint 9.
 - Load case(s) 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	H&H/Venture/Lot11/NewHorizons/Lillingto	139406680
2167669_ofa	A18	Hip Girder	1	1		
Job Reference (optional)						

Builders FirstSource, Sumter, SC - 29153,

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ID:be0DwDII4HqVt2cDPs6iUUYOt3D-aX91VNTASqf8HL0foF3b6RbTqUcDH_VDf3CW4_yFhiR

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 18-21=-20

Concentrated Loads (lb)

Vert: 8=-124(F) 11=-37(F) 12=-37(F) 24=-124(F) 25=-124(F) 26=-124(F) 27=-124(F) 28=-124(F) 29=-124(F) 31=-37(F) 32=-37(F) 33=-37(F) 34=-37(F) 35=-161(F)
36=-103(F)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=21, 2-3=3, 3-8=40, 8-9=20, 9-10=12, 18-30=-12, 14-30=96(F=108), 14-21=-12

Horz: 1-2=-33, 2-3=-15, 8-9=32, 9-10=24

Drag: 3-4=1, 7-8=-1

Concentrated Loads (lb)

Vert: 8=163(F) 11=-18(F) 12=-18(F) 24=150(F) 25=150(F) 26=150(F) 27=150(F) 28=150(F) 29=150(F) 31=-18(F) 32=-18(F) 33=-18(F) 34=-18(F) 35=89(F)
36=52(F)

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=12, 2-3=20, 3-8=40, 8-9=3, 9-10=21, 18-30=-12, 14-30=96(F=108), 14-21=-12

Horz: 1-2=-24, 2-3=-32, 8-9=15, 9-10=33

Drag: 3-4=1, 7-8=-1

Concentrated Loads (lb)

Vert: 8=173(F) 11=-18(F) 12=-18(F) 24=150(F) 25=150(F) 26=150(F) 27=150(F) 28=150(F) 29=150(F) 31=-18(F) 32=-18(F) 33=-18(F) 34=-18(F) 35=89(F)
36=52(F)

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12, 2-3=-20, 3-8=17, 8-9=-3, 9-10=4, 18-30=-20, 14-30=88(F=108), 14-21=-20

Horz: 1-2=-8, 2-3=0, 8-9=17, 9-10=24

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=191(F) 11=-10(F) 12=-10(F) 24=178(F) 25=178(F) 26=178(F) 27=178(F) 28=178(F) 29=178(F) 31=-10(F) 32=-10(F) 33=-10(F) 34=-10(F) 35=97(F)
36=60(F)

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-3=-3, 3-8=17, 8-9=-20, 9-10=-12, 18-30=-20, 14-30=88(F=108), 14-21=-20

Horz: 1-2=-24, 2-3=-17, 8-9=0, 9-10=8

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=201(F) 11=-10(F) 12=-10(F) 24=178(F) 25=178(F) 26=178(F) 27=178(F) 28=178(F) 29=178(F) 31=-10(F) 32=-10(F) 33=-10(F) 34=-10(F) 35=97(F)
36=60(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=33, 2-3=40, 3-8=18, 8-9=18, 9-10=10, 18-30=-12, 14-30=96(F=108), 14-21=-12

Horz: 1-2=-45, 2-3=-52, 8-9=30, 9-10=22

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=180(F) 11=-18(F) 12=-18(F) 24=180(F) 25=180(F) 26=180(F) 27=180(F) 28=180(F) 29=180(F) 31=-18(F) 32=-18(F) 33=-18(F) 34=-18(F) 35=89(F)
36=52(F)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=10, 2-3=18, 3-8=18, 8-9=40, 9-10=33, 18-30=-12, 14-30=96(F=108), 14-21=-12

Horz: 1-2=-22, 2-3=-30, 8-9=52, 9-10=45

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=166(F) 11=-18(F) 12=-18(F) 24=180(F) 25=180(F) 26=180(F) 27=180(F) 28=180(F) 29=180(F) 31=-18(F) 32=-18(F)
33=-18(F) 34=-18(F) 35=89(F) 36=52(F)

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=33, 2-3=40, 3-8=18, 8-9=18, 9-10=10, 18-30=-12, 14-30=96(F=108), 14-21=-12

Horz: 1-2=-45, 2-3=-52, 8-9=30, 9-10=22

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=180(F) 11=-18(F) 12=-18(F) 24=180(F) 25=180(F) 26=180(F) 27=180(F) 28=180(F) 29=180(F) 31=-18(F) 32=-18(F)
33=-18(F) 34=-18(F) 35=89(F) 36=52(F)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=10, 2-3=18, 3-8=18, 8-9=40, 9-10=33, 18-30=-12, 14-30=96(F=108), 14-21=-12

Horz: 1-2=-22, 2-3=-30, 8-9=52, 9-10=45

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=166(F) 11=-18(F) 12=-18(F) 24=180(F) 25=180(F) 26=180(F) 27=180(F) 28=180(F) 29=180(F) 31=-18(F) 32=-18(F)
33=-18(F) 34=-18(F) 35=89(F) 36=52(F)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=25, 2-3=17, 3-8=-5, 8-9=-5, 9-10=2, 18-30=-20, 14-30=88(F=108), 14-21=-20

Horz: 1-2=-45, 2-3=-37, 8-9=15, 9-10=22

Drag: 3-4=0, 7-8=-0

Continued on page 3

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Venture/Lot11/NewHorizons/Lillingto	I39406680
2167669_ofa	A18	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

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 ID:be0DwDI4HqVt2cDPs6iUUYOt3D-aX91VNTASqf8HL0foF3b6RbTqUcDH_VDf3CW4_yFhiR

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=208(F) 11=-10(F) 12=-10(F) 24=208(F) 25=208(F) 26=208(F) 27=208(F) 28=208(F) 29=208(F) 31=-10(F) 32=-10(F) 33=-10(F) 34=-10(F) 35=97(F)
 36=60(F)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=2, 2-3=-5, 3-8=-5, 8-9=17, 9-10=25, 18-30=-20, 14-30=88(F=108), 14-21=-20
 Horz: 1-2=-22, 2-3=-15, 8-9=37, 9-10=45
 Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=194(F) 11=-10(F) 12=-10(F) 24=208(F) 25=208(F) 26=208(F) 27=208(F) 28=208(F) 29=208(F) 31=-10(F) 32=-10(F) 33=-10(F) 34=-10(F) 35=97(F)
 36=60(F)

15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-44, 2-3=-50, 3-8=-22, 8-9=-37, 9-10=-32, 18-30=-20, 14-30=61(F=81), 14-21=-20
 Horz: 1-2=-6, 2-3=-0, 8-9=13, 9-10=18
 Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=137(F) 11=-10(F) 12=-10(F) 24=128(F) 25=128(F) 26=128(F) 27=128(F) 28=128(F) 29=128(F) 31=-10(F) 32=-10(F) 33=-10(F) 34=-10(F) 35=63(F)
 36=38(F)

16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-32, 2-3=-37, 3-8=-22, 8-9=-50, 9-10=-44, 18-30=-20, 14-30=61(F=81), 14-21=-20
 Horz: 1-2=-18, 2-3=-13, 8-9=0, 9-10=6
 Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=145(F) 11=-10(F) 12=-10(F) 24=128(F) 25=128(F) 26=128(F) 27=128(F) 28=128(F) 29=128(F) 31=-10(F) 32=-10(F) 33=-10(F) 34=-10(F) 35=63(F)
 36=38(F)

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-17, 2-3=-22, 3-8=-39, 8-9=-39, 9-10=-33, 18-30=-20, 14-30=61(F=81), 14-21=-20
 Horz: 1-2=-33, 2-3=-28, 8-9=11, 9-10=17
 Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=150(F) 11=-10(F) 12=-10(F) 24=150(F) 25=150(F) 26=150(F) 27=150(F) 28=150(F) 29=150(F) 31=-10(F) 32=-10(F) 33=-10(F) 34=-10(F) 35=63(F)
 36=38(F)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-33, 2-3=-39, 3-8=-39, 8-9=-22, 9-10=-17, 18-30=-20, 14-30=61(F=81), 14-21=-20
 Horz: 1-2=-17, 2-3=-11, 8-9=28, 9-10=33
 Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=140(F) 11=-10(F) 12=-10(F) 24=150(F) 25=150(F) 26=150(F) 27=150(F) 28=150(F) 29=150(F) 31=-10(F) 32=-10(F) 33=-10(F) 34=-10(F) 35=63(F)
 36=38(F)

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

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



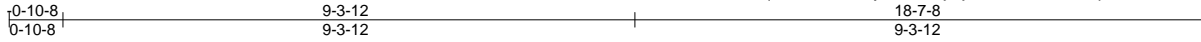
818 Soundside Road
 Edenton, NC 27932

Job 2167669_ofa	Truss C01	Truss Type GABLE	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto 139406681
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:51 2019 Page 1

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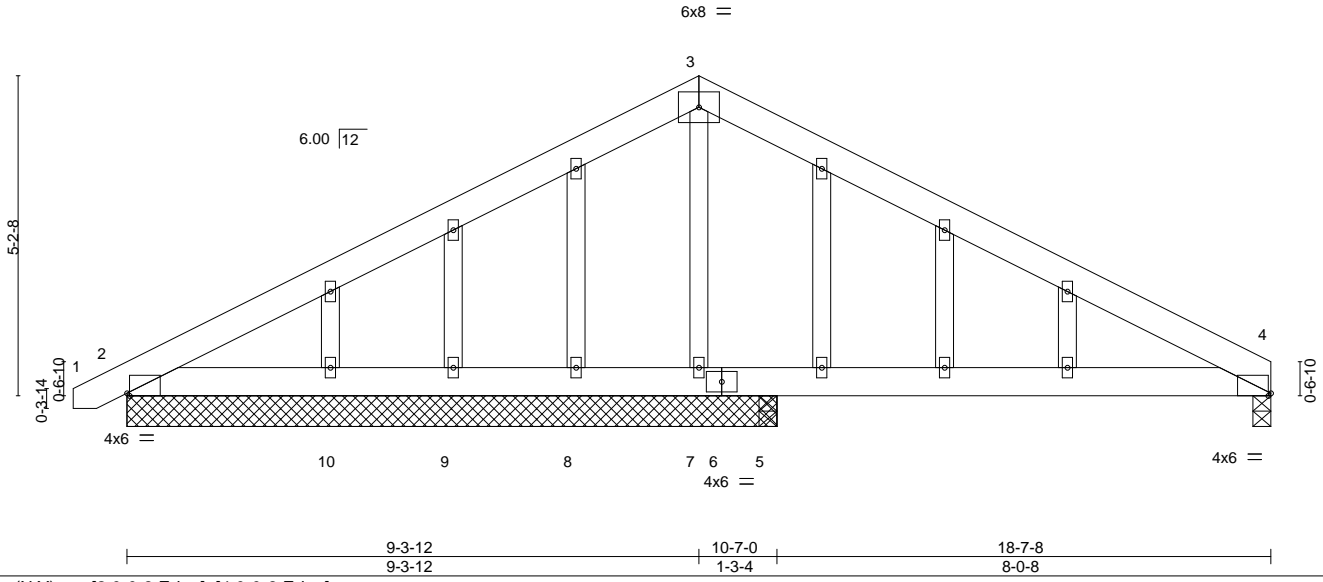


Plate Offsets (X,Y)--	[2:0-0-8,Edge], [4:0-0-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.04 5-22 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.08 5-22 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.09 5-22 >999 240	Weight: 122 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 10-7-0 except (jt=length) 4=0-3-8, 5=0-3-8.
 (lb) - Max Horz 2=120(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 4=151(LC 13), 7=163(LC 12), 9=101(LC 23), 10=236(LC 12), 5=246(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 7, 8, 9 except 4=367(LC 1), 2=260(LC 1), 10=369(LC 23), 5=512(LC 3), 2=260(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=282/249
 WEBS 3-7=394/241

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 2 except (jt=lb) 4=151, 7=163, 9=101, 10=236, 5=246.
 - 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.



November 25, 2019

Job 2167669_ofa	Truss C02	Truss Type COMMON	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto 139406682
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:52 2019 Page 1

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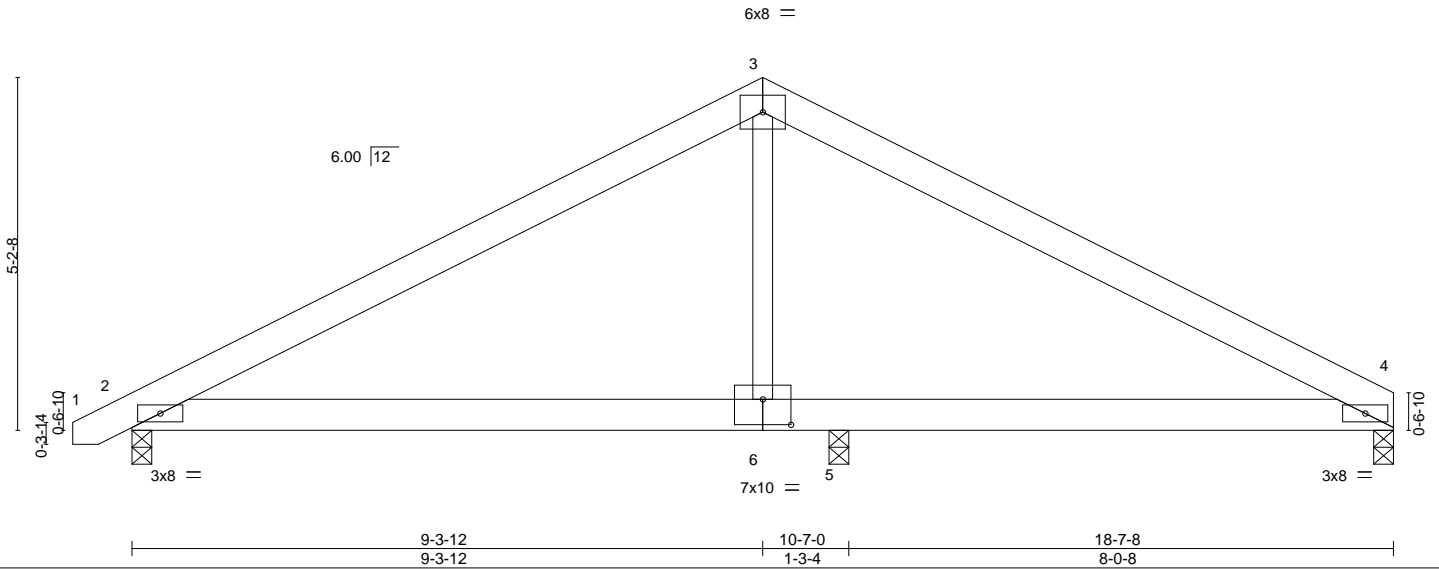


Plate Offsets (X,Y)--	[6:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.49	Vert(LL) -0.06 6-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) -0.13 6-12 >975 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 4 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.09 5-9 >999 240	Weight: 102 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 4=553/0-3-8, 2=637/0-3-8, 5=341/0-3-8
 Max Horz 2=120(LC 12)
 Max Uplift 4=-141(LC 13), 2=-229(LC 12), 5=-213(LC 8)
 Max Grav 4=553(LC 1), 2=637(LC 1), 5=361(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-684/251, 3-4=-712/300
 BOT CHORD 2-6=-180/556, 5-6=-180/556, 4-5=-180/556
 WEBS 3-6=-85/355

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=141, 2=229, 5=213.
 - 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.



November 25, 2019

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

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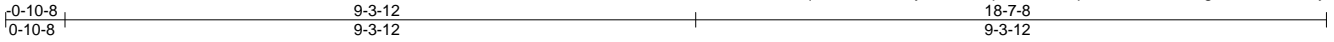
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 2167669_ofa	Truss C03	Truss Type COMMON	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto 139406683
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:53 2019 Page 1
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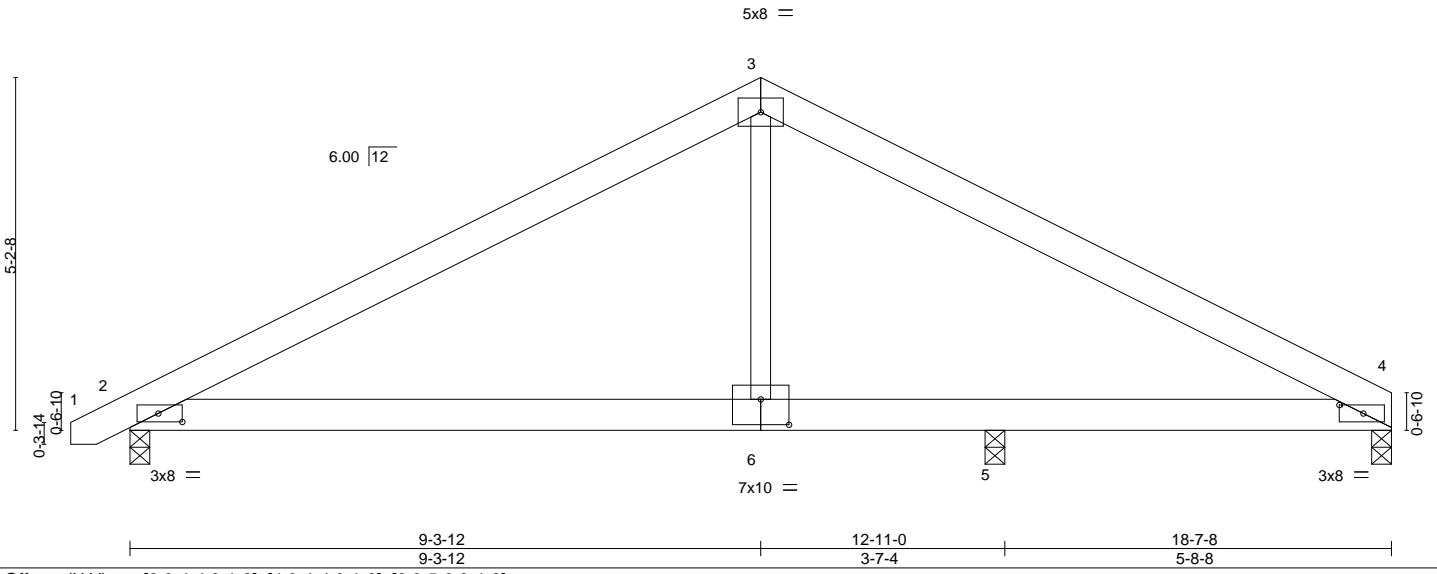


Plate Offsets (X,Y)--	[2:0-4-4,0-1-8], [4:0-4-4,0-1-8], [6:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) -0.06 6-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) -0.13 6-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 4 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.09 6-12 >999 240	Weight: 102 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 4=613/0-3-8, 2=727/0-3-8, 5=191/0-3-8
 Max Horz 2=120(LC 12)
 Max Uplift 4=-146(LC 13), 2=-228(LC 12), 5=-113(LC 8)
 Max Grav 4=613(LC 1), 2=727(LC 1), 5=225(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-878/376, 3-4=-910/373
 BOT CHORD 2-6=-181/721, 5-6=-181/721, 4-5=-181/721
 WEBS 3-6=0/291

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=146, 2=228, 5=113.
 - 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.



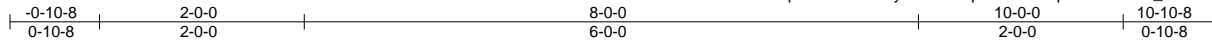
November 25, 2019

Job 2167669_ofa	Truss H01	Truss Type HIP GIRDER	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto 139406684
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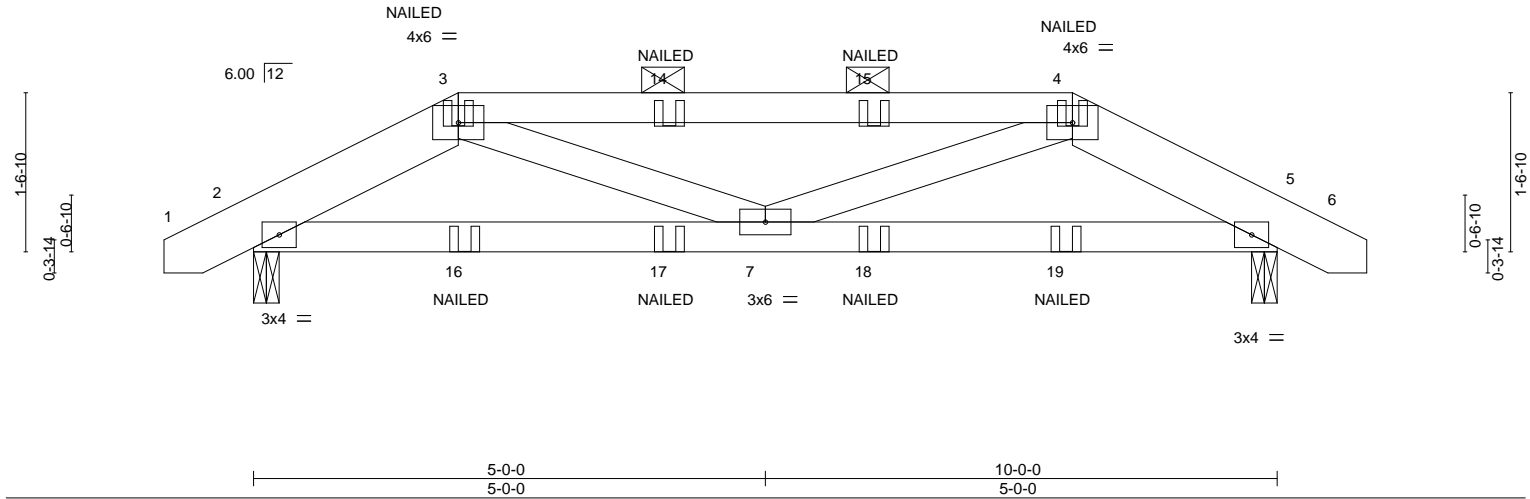
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:53 2019 Page 1

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Scale = 1:22.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	0.03	7-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.03	7-10	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 49 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (5-10-15 max.); 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-7-8 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) 2=445/0-3-0, 5=445/0-3-0
 Max Horz 2=33(LC 8)
 Max Uplift 2=-254(LC 5), 5=-254(LC 4)

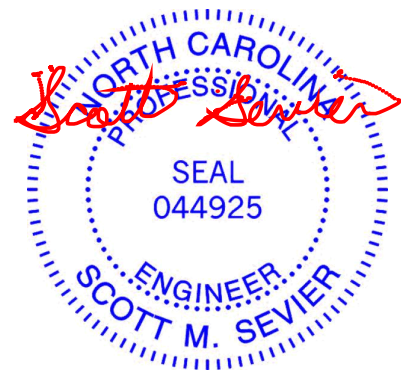
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-650/433, 3-4=-677/467, 4-5=-650/433
 BOT CHORD 2-7=-376/575, 5-7=-364/575

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=254, 5=254.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

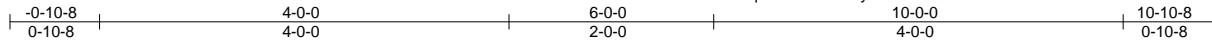
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-6=-60, 8-11=-20
- Concentrated Loads (lb)
Vert: 16=-2(B) 17=-2(B) 18=-2(B) 19=-2(B)

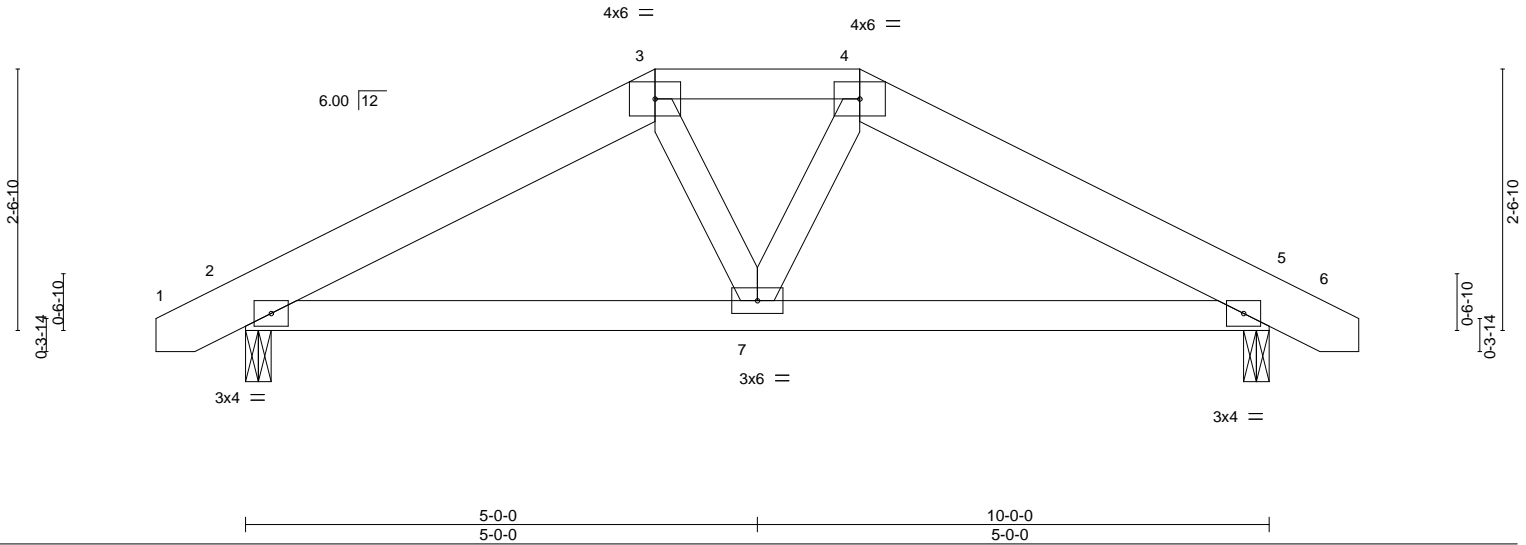


November 25, 2019

Job 2167669_ofa	Truss H02	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406685
Builders FirstSource, Sumter, SC - 29153,					8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:54 2019 Page 1	
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Job Reference (optional)						



Scale = 1:22.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	0.03 7-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.02 7-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS					Weight: 51 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=441/0-3-0, 5=441/0-3-0
 Max Horz 2=55(LC 12)
 Max Uplift 2=-175(LC 9), 5=-175(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-521/696, 3-4=-453/745, 4-5=-521/695
 BOT CHORD 2-7=-518/430, 5-7=-519/430

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=175, 5=175.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25, 2019

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

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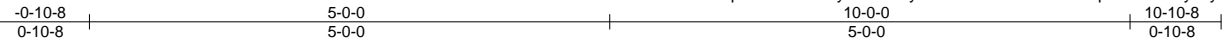
818 Soundside Road
Edenton, NC 27932

Job 2167669_ofa	Truss H03	Truss Type COMMON	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406686
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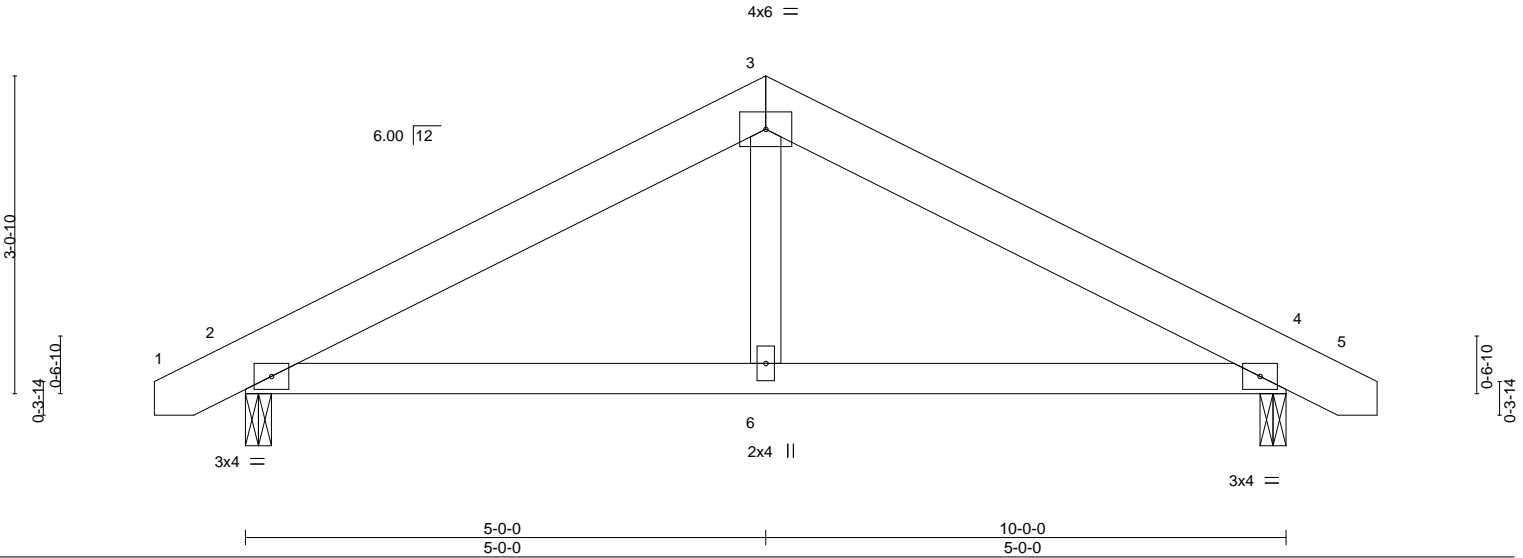
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:55 2019 Page 1

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Scale = 1:22.1



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 0.18	Vert(LL) 0.03 6-12 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.02 6-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.01 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 50 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=441/0-3-0, 4=441/0-3-0
 Max Horz 2=64(LC 12)
 Max Uplift 2=-146(LC 9), 4=-146(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-518/708, 3-4=-518/708
 BOT CHORD 2-6=-529/430, 4-6=-529/430
 WEBS 3-6=-293/196

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=146, 4=146.
- 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.



November 25, 2019

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

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



818 Soundside Road
 Edenton, NC 27932

Job 2167669_ofa	Truss J01	Truss Type JACK-PARTIAL	Qty 18	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	I39406687
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:55 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUyOt3D-xVywY5XJHMHQO7ucbofmpUIOhVPuyO?yoLvHICyFhiM

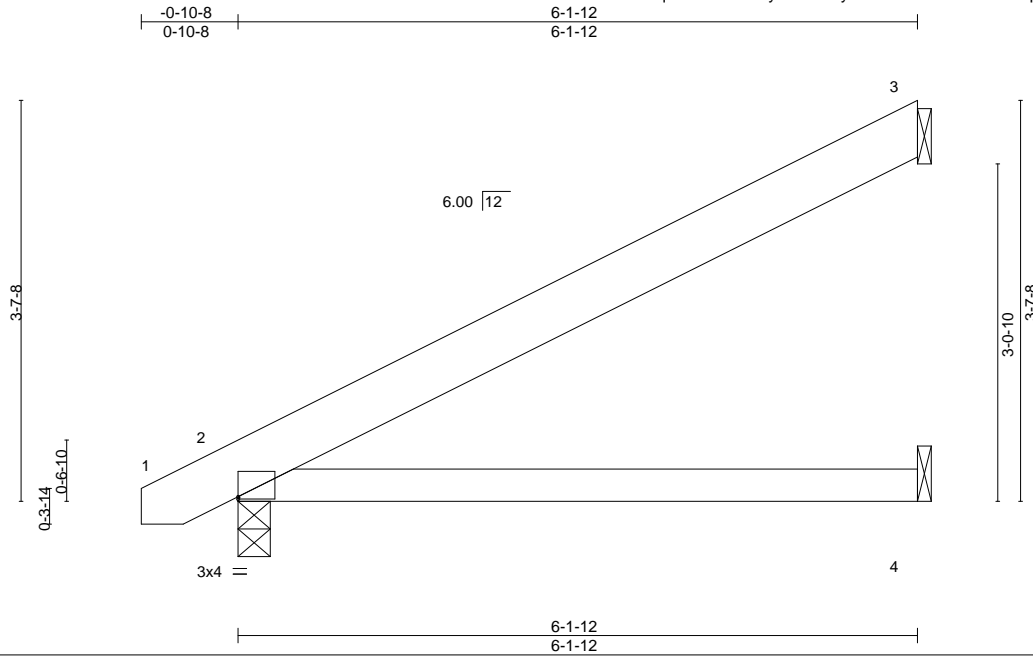


Plate Offsets (X,Y)--	[2:0-0-0,0-0-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.04 4-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.08 4-7 >874 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.04 4-7 >999 240	Weight: 28 lb	FT = 20%

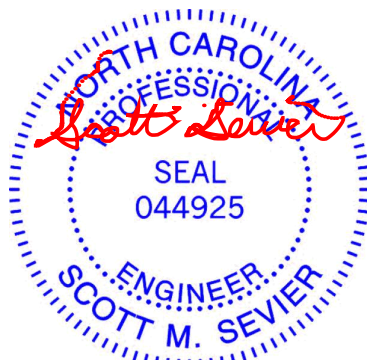
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 3=184/Mechanical, 2=287/0-3-8, 4=57/Mechanical
 Max Horz 2=174(LC 12)
 Max Uplift 3=-145(LC 12), 2=-66(LC 12)
 Max Grav 3=184(LC 1), 2=287(LC 1), 4=96(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 3=145.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

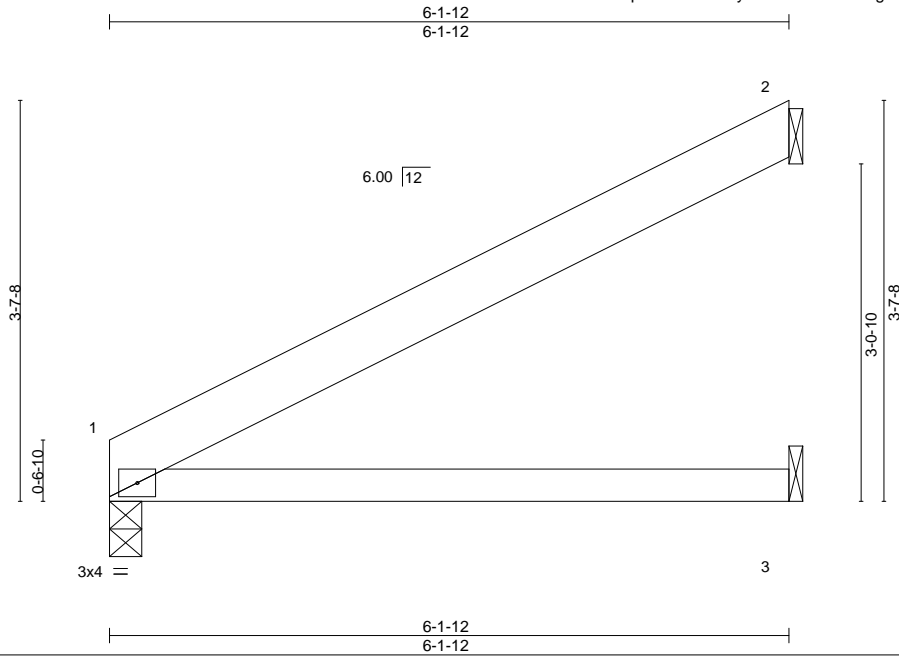


November 25, 2019

Job 2167669_ofa	Truss J01A	Truss Type JACK-PARTIAL	Qty 3	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto 139406688
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:56 2019 Page 1
ID:be0DwDII4HqVt2cDPs6iUyOt3D-PhWIIRXx1gPH?HTp9WA?MirZMVI6hrF51?frleyPhiL



Scale = 1:20.8

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 0.29	Vert(LL)	-0.04	3-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.08	3-6	>868	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	Wind(LL)	0.04	3-6	>999	240		
									Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 1=243/0-3-8, 2=186/Mechanical, 3=57/Mechanical
Max Horz 1=159(LC 12)
Max Uplift 1=-42(LC 12), 2=-146(LC 12)
Max Grav 1=243(LC 1), 2=186(LC 1), 3=96(LC 3)

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

NOTES-

- 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) 1 except (jt=lb) 2=146.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 25, 2019

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

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

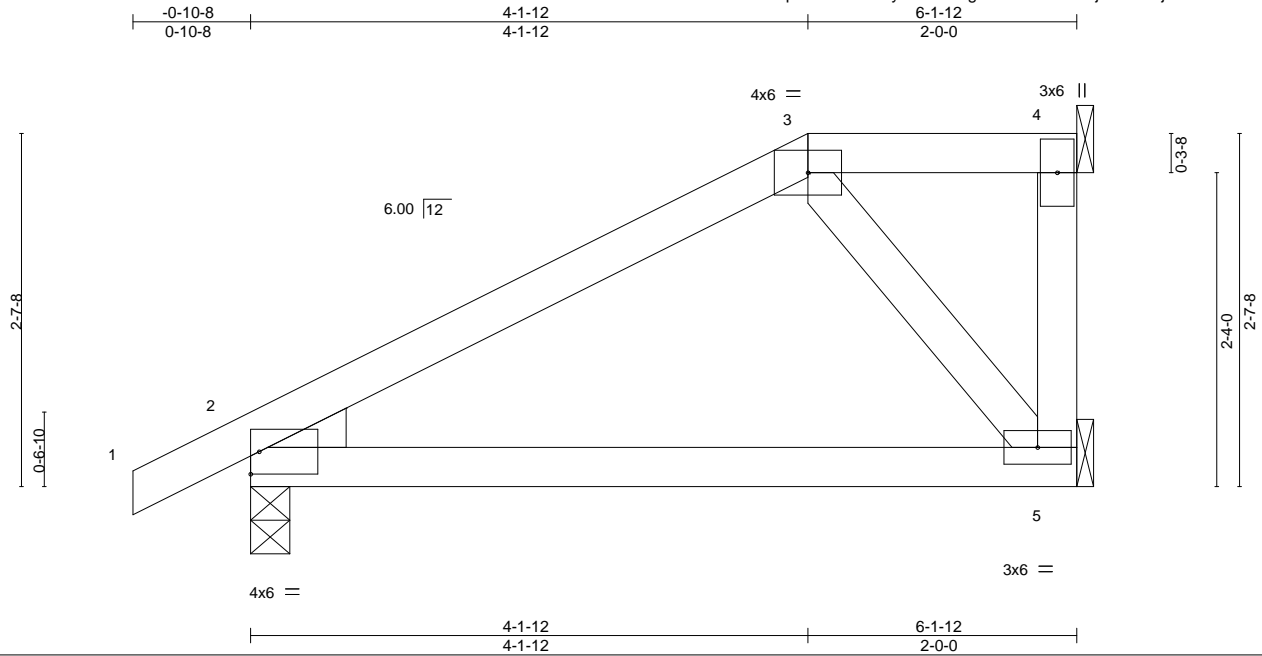


818 Soundside Road
Edenton, NC 27932

Job 2167669_ofa	Truss J02	Truss Type Half Hip	Qty 2	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406689
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:57 2019 Page 1
ID:be0DwDII4HqVt2cDPs6iUUyOt3D-tu4gzYzozX8dQ2?;DhEuvNjQI3VQIXFgFOOq4yFhik



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)	-0.05 5-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.10 5-8	>701	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.01 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.03 5-8	>999	240	Weight: 29 lb	FT = 20%

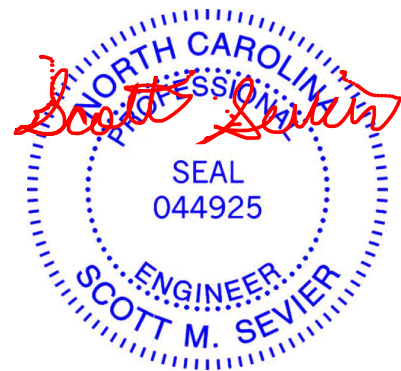
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. (lb/size) 2=296/0-3-8, 5=181/Mechanical, 4=56/Mechanical
Max Horz 2=131(LC 11)
Max Uplift 2=97(LC 12), 5=43(LC 12), 4=37(LC 8)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 4.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

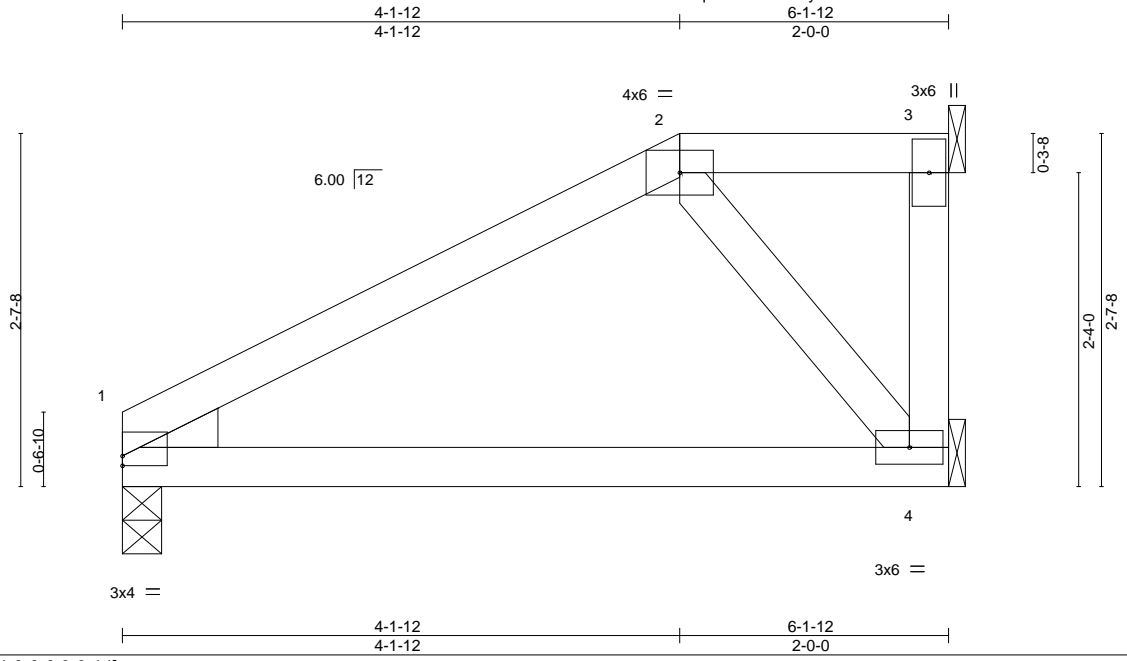


November 25, 2019

Job 2167669_ofa	Truss J02A	Truss Type HALF HIP	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto 139406690
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:58 2019 Page 1
ID:be0DwDII4HqVt2cDPs6iUUyOt3D-L4e3A7ZBZHf?FadBGxDTR7wuxiPg9IsOVJ8yMWyFhiJ



Scale = 1:17.1

Plate Offsets (X,Y)--	[1:0-0-0,0-0-14]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.05 4-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.10 4-7 >691 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.01 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.03 4-7 >999 240	Weight: 27 lb	FT = 20%

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

REACTIONS. (lb/size) 1=240/0-3-8, 4=184/Mechanical, 3=56/Mechanical
Max Horz 1=109(LC 12)
Max Uplift 1=-55(LC 12), 4=-56(LC 12), 3=-37(LC 8)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 3.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



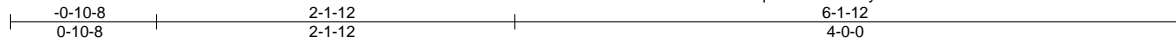
November 25, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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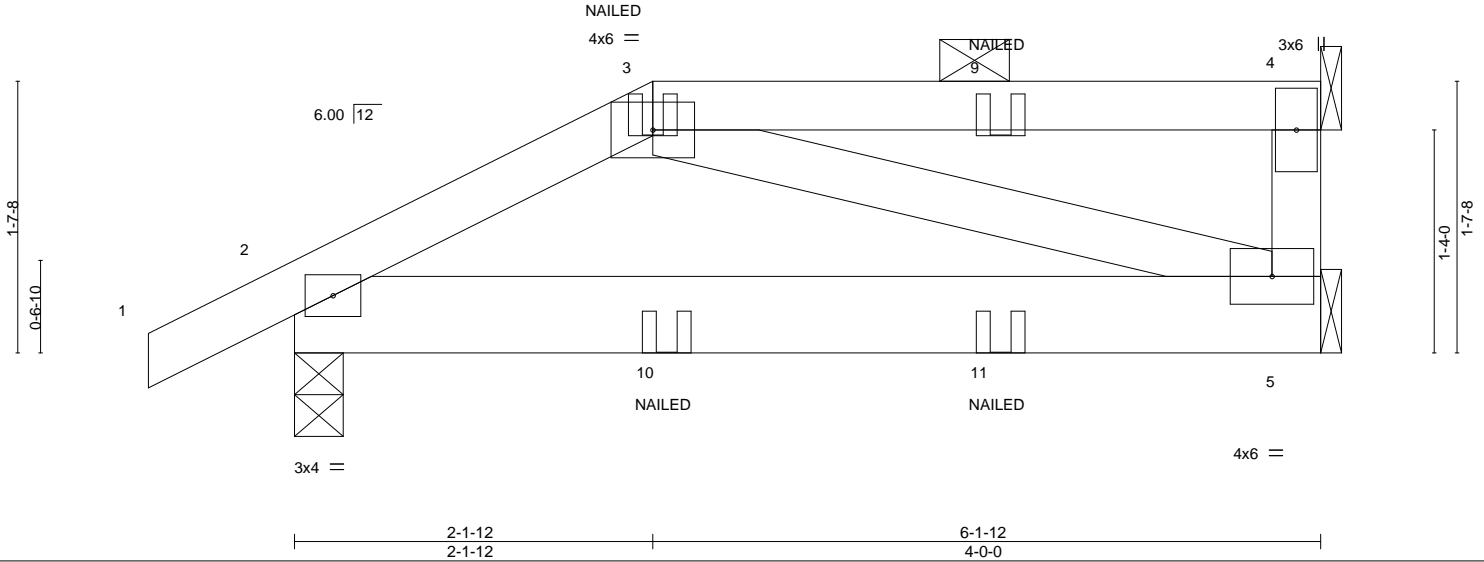
Job 2167669_0fa	Truss J03	Truss Type Half Hip Girder	Qty 2	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406691
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:58 2019 Page 1
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Scale = 1:13.8



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 0.32	Vert(LL)	-0.01	5-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	5-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.01	5-8	>999	240	Weight: 33 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=299/0-3-8, 5=123/Mechanical, 4=116/Mechanical
 Max Horz 2=76(LC 8)
 Max Uplift 2=-117(LC 8), 5=-24(LC 5), 4=-81(LC 4)
 Max Grav 2=299(LC 1), 5=142(LC 3), 4=116(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-251/140

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4 except (jt=lb) 2=117.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

- 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=-2(F) 11=-2(F)



November 25, 2019

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

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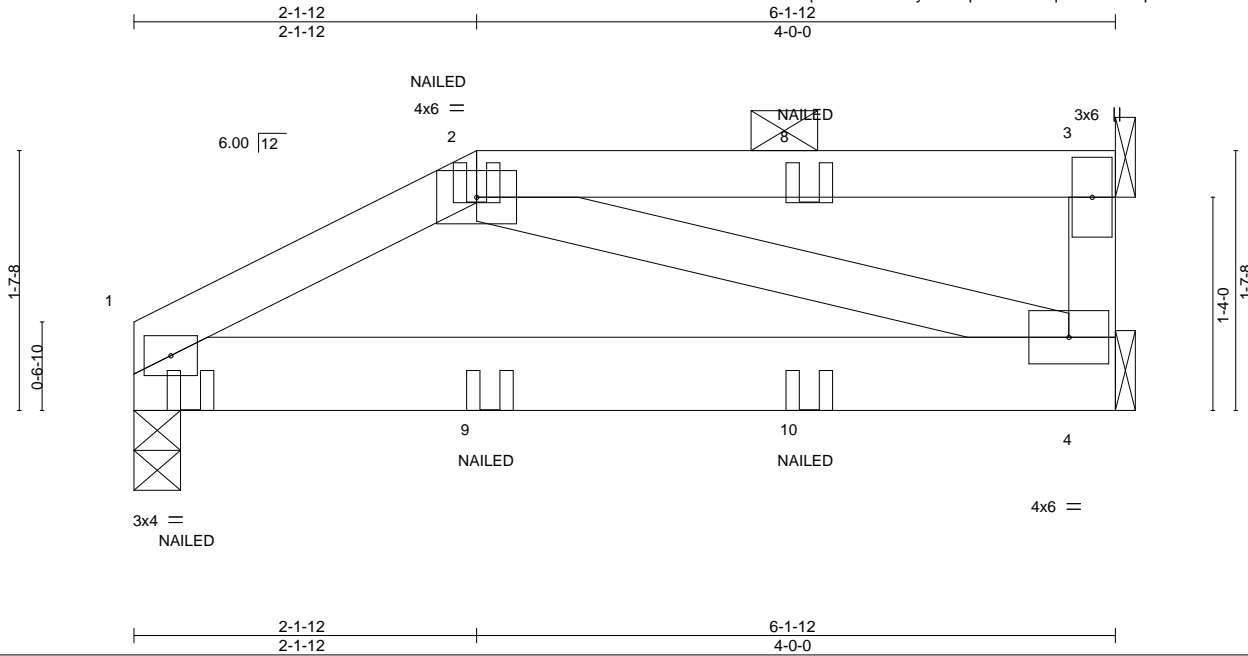


818 Soundside Road
 Edenton, NC 27932

Job 2167669_ofa	Truss J03A	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	139406692
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:59 2019 Page 1
ID:be0DwDII4HqVt2cDPs6iUUyOt3D-pGCROsaqKbnsskCOqekizKT266ohuByjztVuzyFhil



Scale = 1:14.4

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 0.32	Vert(LL)	-0.01	4-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	4-7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.07	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.01	4-7	>999		
								Weight: 31 lb	FT = 20%

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

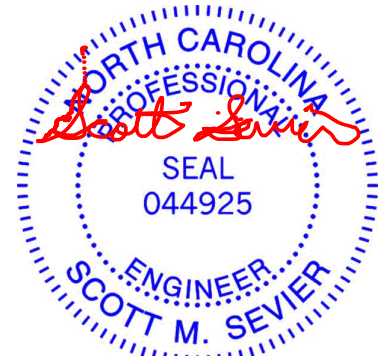
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=250/0-3-8, 4=128/Mechanical, 3=116/Mechanical
 Max Horz 1=64(LC 7)
 Max Uplift 1=98(LC 8), 4=-28(LC 5), 3=-81(LC 4)
 Max Grav 1=250(LC 1), 4=144(LC 3), 3=116(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-256/147

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 3.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 4-5=-20
 Concentrated Loads (lb)
 Vert: 7=-8(F) 9=-2(F) 10=-2(F)



November 25, 2019

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

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

Job 2167669_ofa	Truss J04	Truss Type Jack-Open	Qty 6	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto 139406693
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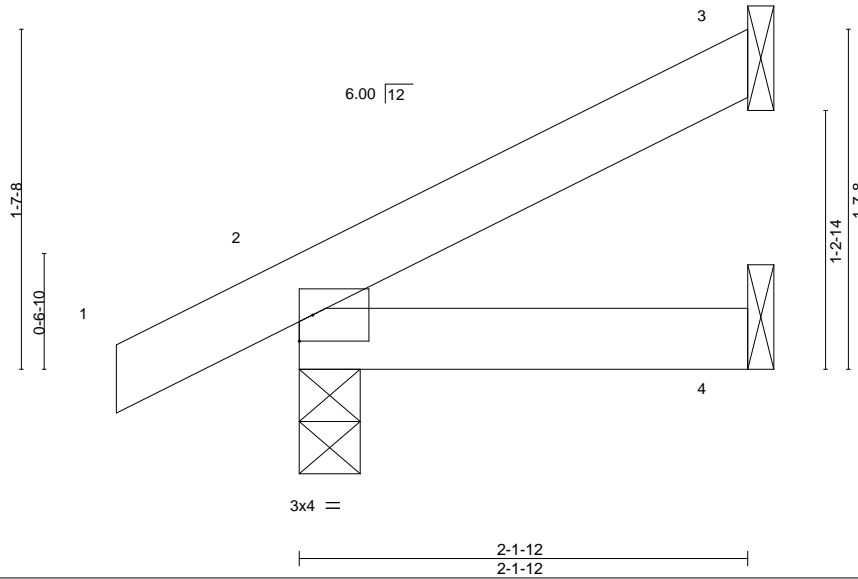
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:44:59 2019 Page 1

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2-1-12
2-1-12



Scale = 1:11.0



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 0.06	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	7	>999		
								Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

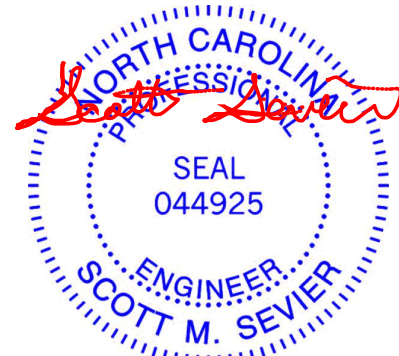
TOP CHORD Structural wood sheathing directly applied or 2-1-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=51/Mechanical, 2=147/0-3-8, 4=22/Mechanical
Max Horz 2=74(LC 12)
Max Uplift 3=-46(LC 12), 2=-44(LC 12)
Max Grav 3=51(LC 1), 2=147(LC 1), 4=37(LC 3)

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

NOTES-

- 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) 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, 2.



November 25, 2019

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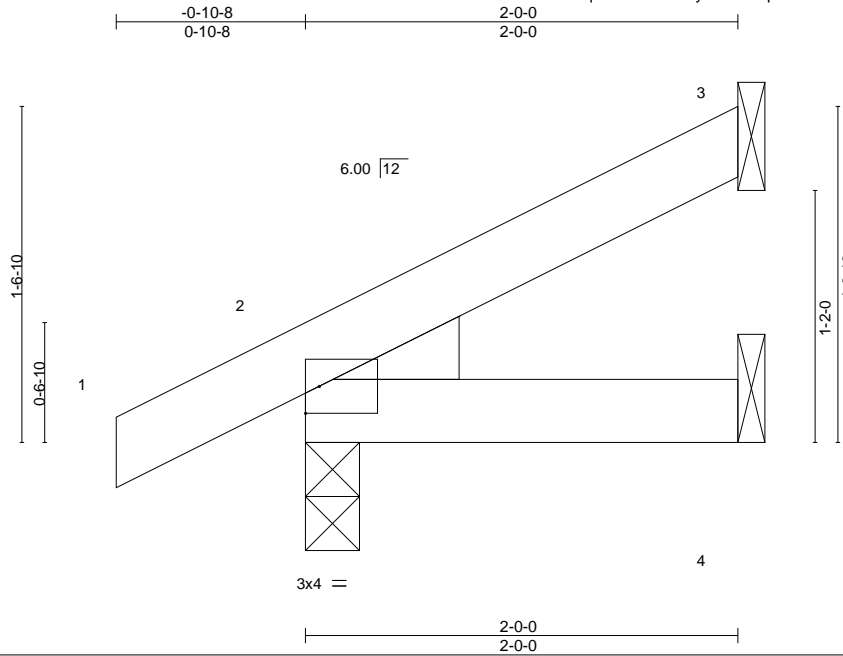


818 Soundside Road
Edenton, NC 27932

Job 2167669_ofa	Truss J10	Truss Type Jack-Open	Qty 4	Ply 1	H&H/Venture/Lot11/NewHorizons/Lillingto	I39406694
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 08:45:00 2019 Page 1
ID:be0DwDI4HqVt2cDPs6iUUYOt3D-ITIpboasS5uwjUmaOMFXYWY?ixWAlfdEhydd2RPyFhiH



Scale = 1:10.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	4-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP					Weight: 9 lb	FT = 20%

LUMBER-

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

BRACING-

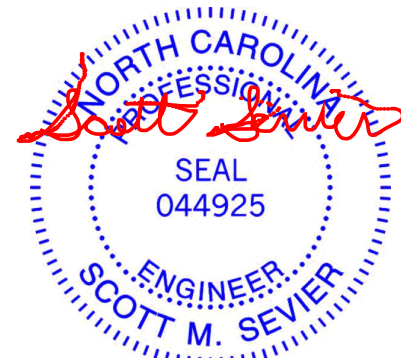
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=48/Mechanical, 2=144/0-3-0, 4=20/Mechanical
 Max Horz 2=71(LC 12)
 Max Uplift 3=44(LC 12), 2=43(LC 12), 4=16(LC 9)
 Max Grav 3=48(LC 1), 2=144(LC 1), 4=36(LC 3)

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

NOTES-

- 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; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



November 25, 2019

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

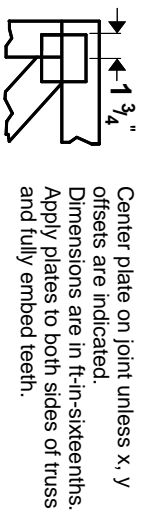
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



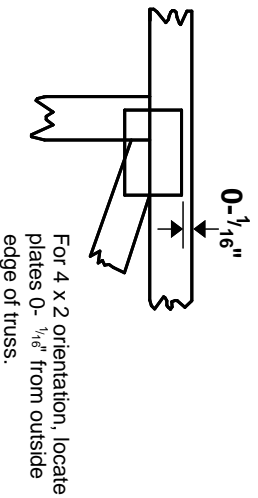
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Symbols

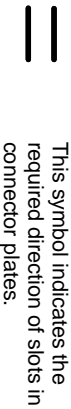
PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/8" from outside edge of truss.



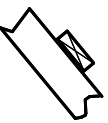
* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

4 X 4

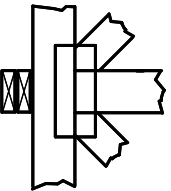
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

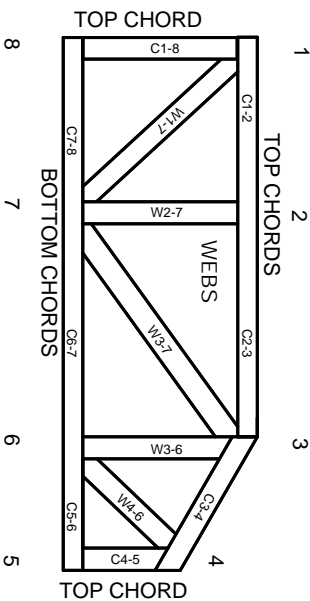


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MI-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.