

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	A01	GABLE	1	1	138499903

Builders First Source, Sumter SC

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ID:h9G7FShkdXsXwp5Zi0SNQzkt2-4yMYPxXDU3VpZNMNoA1ymh5W?v4UzJUy2cgybbyeRH5



3x6 =

Scale = 1:68.2

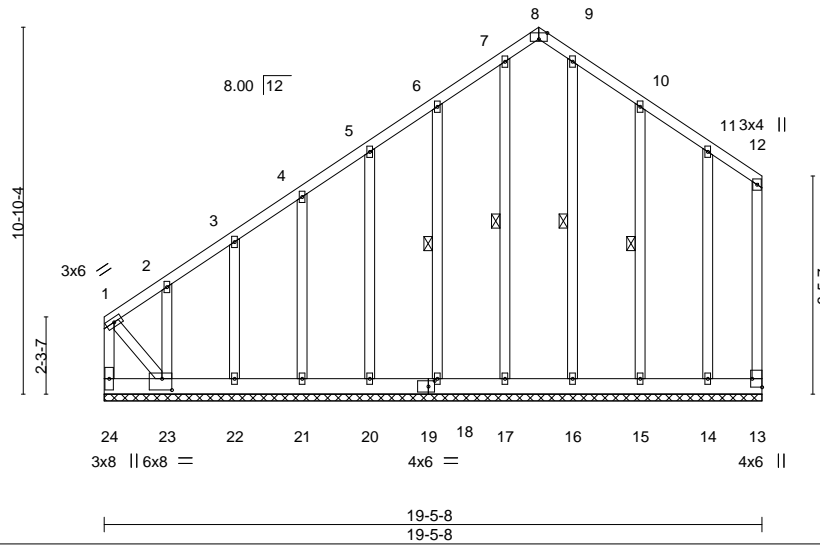


Plate Offsets (X, Y)--	[8:0-3-0,Edge], [13:Edge,0-3-8], [19:0-2-3,0-2-0], [23:0-3-8,0-4-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	-0.00	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 186 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-17, 6-18, 9-16, 10-15
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 19-5-8.
 (lb) - Max Horz 24=452(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 20, 16, 14 except 24=468(LC 10), 17=-104(LC 11), 18=-137(LC 12), 21=-103(LC 12), 22=-104(LC 12), 23=-451(LC 9), 15=-138(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 13, 17, 18, 20, 21, 22, 16, 15, 14 except 24=620(LC 9), 23=478(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-382/315, 2-3=-354/287, 3-4=-330/280, 4-5=-305/275, 5-6=-281/275, 6-7=-326/386, 7-8=-259/299, 8-9=-258/298, 9-10=-327/387, 10-11=-230/272, 1-24=-600/481
 BOT CHORD 23-24=-432/419
 WEBS 1-23=-472/533

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 12-10-4, Corner(3) 12-10-4 to 15-10-4, Exterior(2) 15-10-4 to 19-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 20, 16, 14 except (jt=lb) 24=468, 17=104, 18=137, 21=103, 22=104, 23=451, 15=138.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



September 13, 2019

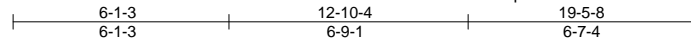
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	A02	Common	5	1	138499904

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5x6 =

Scale = 1:65.1

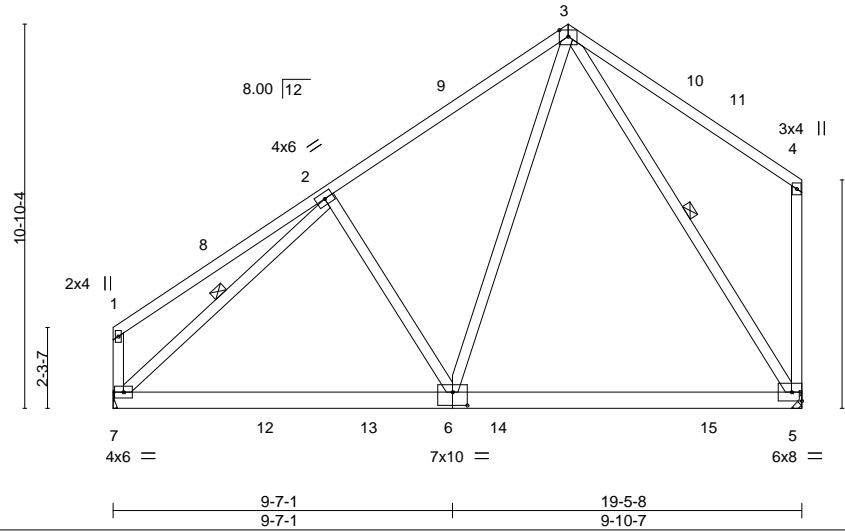


Plate Offsets (X,Y)-- [6:0-5-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.12	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.18	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.02	6	>999		
								Weight: 147 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 or 5-10-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-7, 3-5

REACTIONS. (lb/size) 7=767/Mechanical, 5=767/Mechanical
Max Horz 7=314(LC 12)
Max Uplift 7=-157(LC 12), 5=-237(LC 12)
Max Grav 7=832(LC 19), 5=884(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-751/269, 4-5=-259/209
BOT CHORD 6-7=-374/758, 5-6=-122/408
WEBS 2-6=-353/377, 3-6=-189/685, 2-7=-766/86, 3-5=-742/224

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-10-4, Exterior(2) 12-10-4 to 15-10-4, Interior(1) 15-10-4 to 19-3-12 zone; cantilever 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.
 - Bearings are assumed to be: Joint 7 User Defined crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=157, 5=237.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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



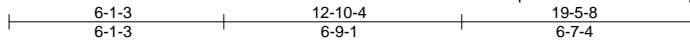
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC	138499905
JobNumber2075761	A03	Common	3	1		

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5x6 =

Scale = 1:65.4

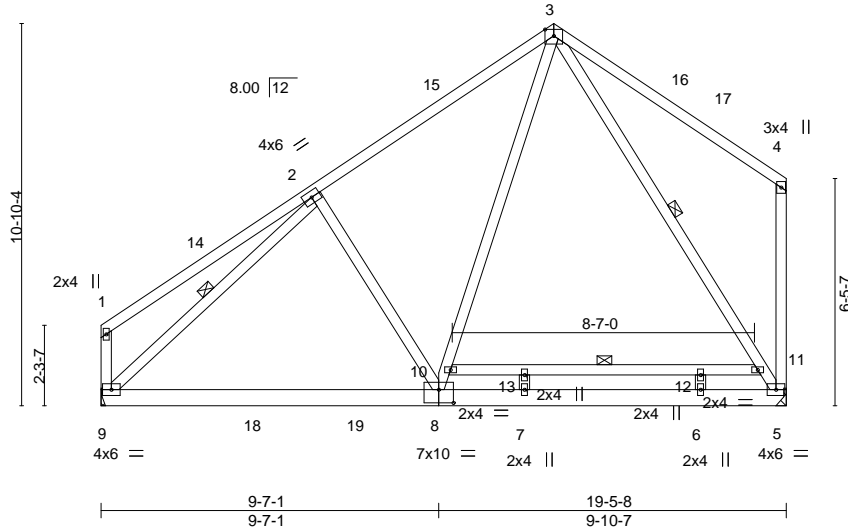


Plate Offsets (X,Y)-- [8:0-5-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.07	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.18	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.02	8	>999		
								Weight: 161 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 10-11: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-9, 3-5, 10-11

REACTIONS. (lb/size) 9=817/Mechanical, 5=917/Mechanical
 Max Horz 9=314(LC 12)
 Max Uplift 9=107(LC 12), 5=87(LC 12)
 Max Grav 9=831(LC 19), 5=917(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-806/186, 4-5=-263/206
 BOT CHORD 8-9=-315/754, 7-8=-75/443, 6-7=-75/443, 5-6=-75/443
 WEBS 2-8=-335/396, 8-10=-97/658, 3-10=-83/676, 2-9=-797/0, 3-11=-735/163, 5-11=-796/125

- NOTES-** (9)
- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-10-4, Exterior(2) 12-10-4 to 15-10-4, Interior(1) 15-10-4 to 19-3-12 zone; cantilever 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, 14-6-5 from left end, supported at two points, 5-0-0 apart.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearings are assumed to be: Joint 9 User Defined crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 9=107.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC	138499906
JobNumber2075761	A04	Common	1	1		

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4x6 ||

Scale = 1:65.4

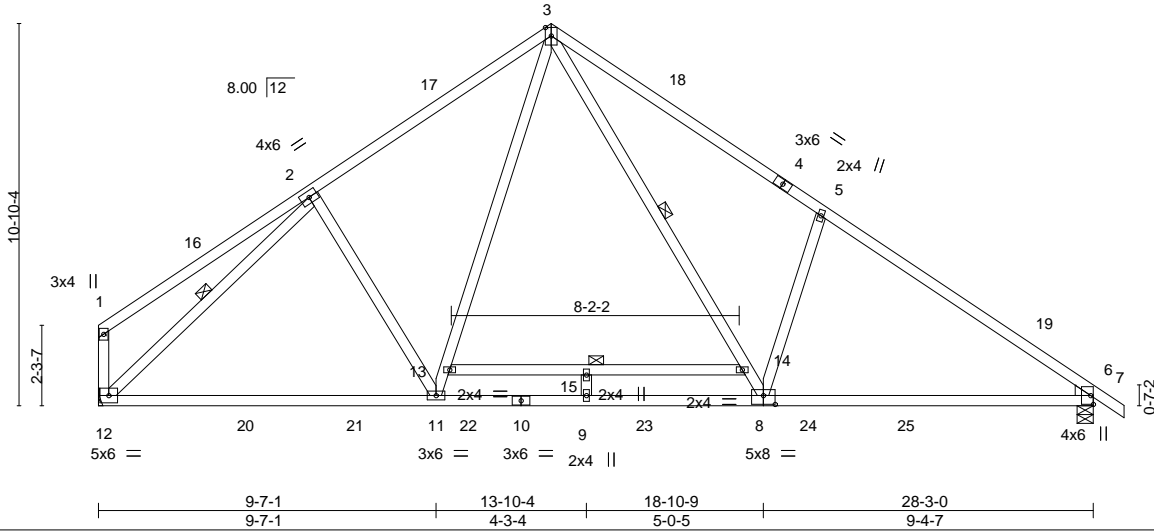


Plate Offsets (X,Y)-- [6:0-0-10,0-4-6], [6:0-0-5,0-0-7], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.25	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-0.40	11-12	>841		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.05	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.12	6-8	>999		
								Weight: 175 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1 *Except*
 1-3: 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 13-14: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 3-8, 2-12, 13-14

WEDGE
 Right: 2x4 SP No.3

REACTIONS. (lb/size) 12=1221/Mechanical, 6=1275/0-5-8
 Max Horz 12=-351(LC 8)
 Max Uplift 12=-150(LC 12), 6=-224(LC 13)
 Max Grav 12=1221(LC 1), 6=1291(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1400/280, 3-5=-1775/418, 5-6=-1748/223
 BOT CHORD 11-12=-173/1193, 9-11=0/966, 8-9=0/966, 6-8=-45/1329
 WEBS 2-11=-206/379, 11-13=-102/540, 3-13=-74/563, 3-14=-316/941, 8-14=-336/903,
 5-8=-544/480, 2-12=-1331/105

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-10-4, Exterior(2) 12-10-4 to 15-10-4, Interior(1) 15-10-4 to 29-1-8 zone; cantilever right exposed; end vertical 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, 13-0-0 from left end, supported at two points, 5-0-0 apart.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=150, 6=224.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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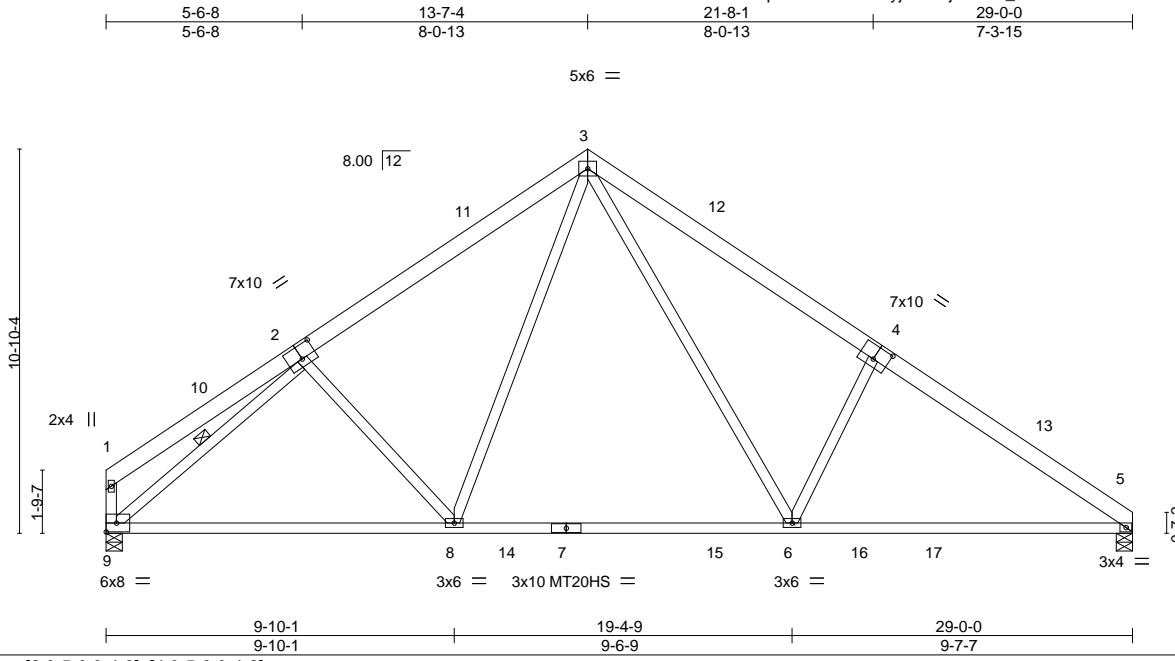
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC	138499907
JobNumber2075761	A06	Common	3	1		
Builders First Source, Sumter SC						Job Reference (optional)

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Scale = 1:65.1

Plate Offsets (X,Y)--	[2:0-5-0,0-4-8], [4:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.37 6-8 >916 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.48 6-8 >719 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.06 5-6 >999 240	Weight: 188 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-11 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-9: 2x4 SP No.2	WEBS 1 Row at midpt 2-9

REACTIONS. (lb/size) 9=1145/0-5-8, 5=1145/0-5-8
 Max Horz 9=-343(LC 8)
 Max Uplift 9=-271(LC 12), 5=-288(LC 13)
 Max Grav 9=1159(LC 19), 5=1213(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1332/436, 3-4=-1614/549, 4-5=-1720/427
 BOT CHORD 8-9=-385/1275, 6-8=-81/942, 5-6=-230/1332
 WEBS 2-8=-300/373, 3-8=-166/513, 3-6=-342/895, 4-6=-542/462, 2-9=-1306/351

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-7-4, Exterior(2) 13-7-4 to 16-7-4, Interior(1) 16-7-4 to 28-9-4 zone; cantilever right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=271, 5=288.



September 13, 2019

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	A07	Common	3	1	138499908

Builders First Source, Sumter SC

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5x6 =

Scale = 1:65.1

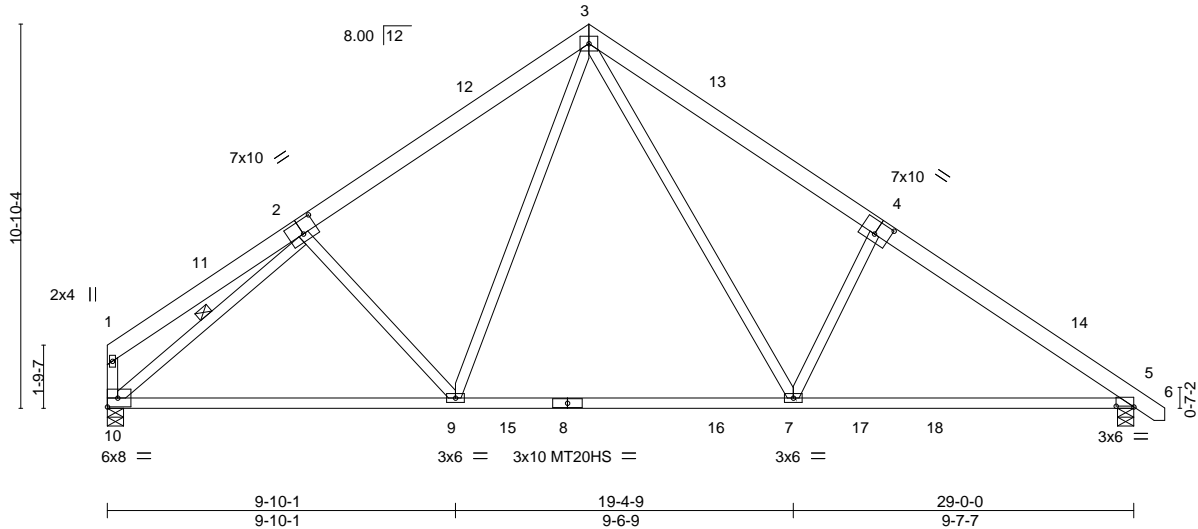


Plate Offsets (X,Y)-- [2:0-5-0,0-4-8], [4:0-5-0,0-4-8], [5:0-6-0,0-0-4]

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 0.36	Vert(LL)	-0.37	7-9	>916	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.48	7-9	>717	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.05	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.06	5-7	>999	240		
									Weight: 190 lb	FT = 20%

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

REACTIONS. (lb/size) 10=1144/0-5-8, 5=1203/0-5-8
 Max Horz 10=-350(LC 8)
 Max Uplift 10=-271(LC 12), 5=-319(LC 13)
 Max Grav 10=1159(LC 19), 5=1270(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1333/436, 3-4=-1616/547, 4-5=-1716/423
 BOT CHORD 9-10=-378/1280, 7-9=-74/946, 5-7=-217/1325
 WEBS 2-9=-300/373, 3-9=-166/513, 3-7=-339/890, 4-7=-544/458, 2-10=-1306/347

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-7-4, Exterior(2) 13-7-4 to 16-7-4, Interior(1) 16-7-4 to 29-8-11 zone; cantilever right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=271, 5=319.

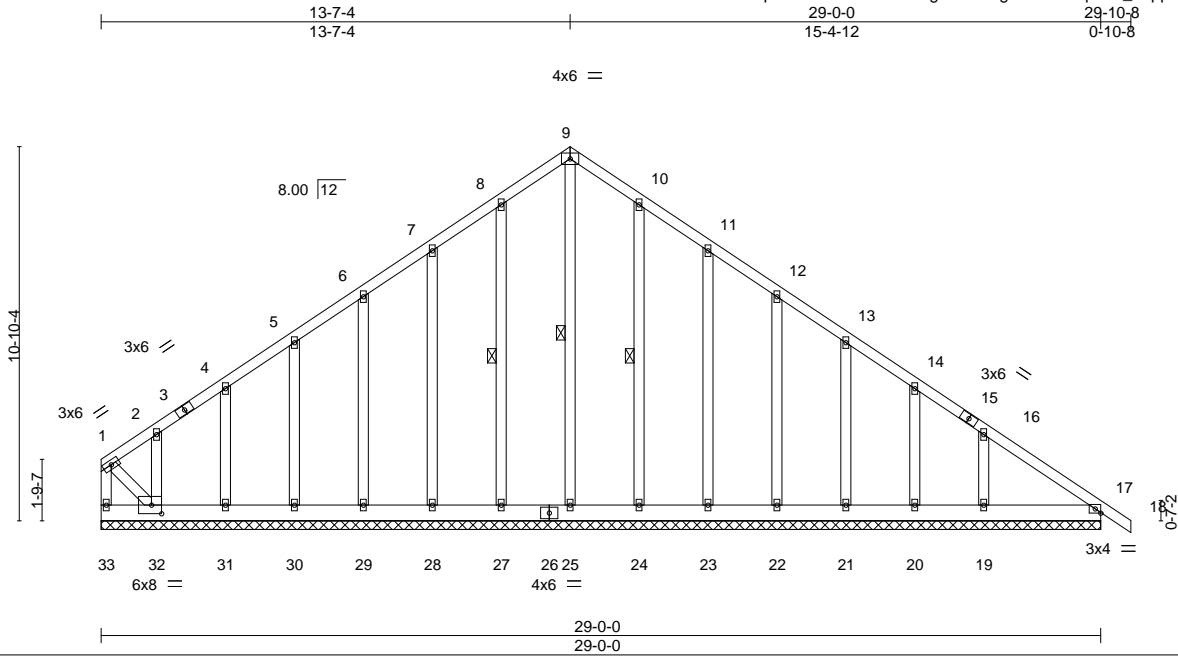


September 13, 2019

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	A08	Common Supported Gable	1	1	138499910
					Job Reference (optional)

Builders First Source, Sumter SC

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 ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-rUra4gdEcWWgWczvGrAq5NQ_07pprxNktrcNs7yeRGz



Scale = 1:66.8

Plate Offsets (X,Y)--	[32:0-3-8,0-3-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	0.00	17	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	0.00	18	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.01	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 239 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 9-25, 8-27, 10-24
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 29-0-0.
 (lb) - Max Horz 33=-383(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 27, 24, 20, 17 except 33=-287(LC 10), 28=-108(LC 12), 29=-102(LC 12), 30=-102(LC 12), 31=-105(LC 12), 32=-340(LC 12), 23=-109(LC 13), 22=-100(LC 13), 21=-109(LC 13), 19=-187(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 27, 28, 29, 30, 31, 24, 23, 22, 21, 20, 17 except 33=384(LC 12), 25=251(LC 13), 32=334(LC 10), 19=306(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-33=-373/288, 1-2=-284/212, 8-9=-265/307, 9-10=-265/307, 16-17=-293/191
 BOT CHORD 32-33=-333/362, 31-32=-200/311, 30-31=-200/311, 29-30=-200/311, 28-29=-200/311, 27-28=-200/311, 25-27=-200/311, 24-25=-200/311, 23-24=-200/311, 22-23=-200/311, 21-22=-200/311, 20-21=-200/311, 19-20=-200/311, 17-19=-200/311
 WEBS 1-32=-278/335

- 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 Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 13-7-4, Corner(3) 13-7-4 to 16-7-4, Exterior(2) 16-7-4 to 29-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 24, 20, 17 except (jt=lb) 33=287, 28=108, 29=102, 30=102, 31=105, 32=340, 23=109, 22=100, 21=109, 19=187.



September 13, 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

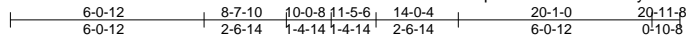
Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	B01	ATTIC	1	1	138499911

Builders First Source, Sumter SC

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ID:h9G7FShkwdXsXwp5Zi0SN0zktn2-JhPyl0esNqeX8lY5pZh3daz_MX1XaL7t6VMwPZyeRGy

Job Reference (optional)



4x6 =

Scale = 1:72.1

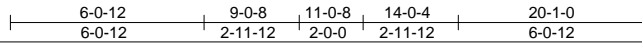
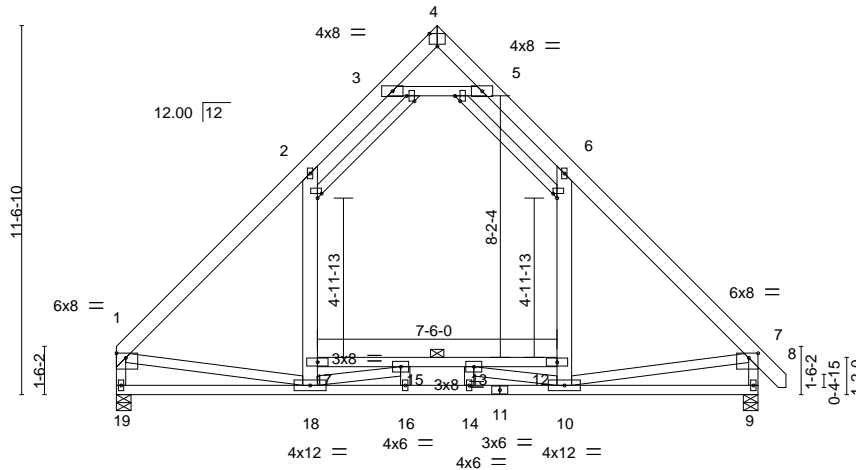


Plate Offsets (X,Y)--	[1:Edge,0-1-12], [4:0-3-0,Edge], [7:0-3-8,0-1-12], [20:0-2-0,Edge], [21:0-1-8,0-1-12], [22:0-2-0,Edge], [23:0-1-8,0-1-12]
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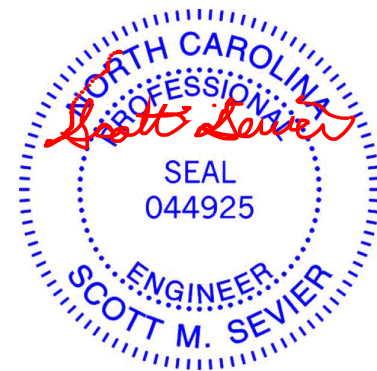
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.86	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.61	Vert(LL) -0.12 15-17 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.35	Vert(CT) -0.23 15-17 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.17 18 >999 240	Weight: 191 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 20-21,22-23: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing. Except:
WEBS 2x4 SP No.3 *Except* 6-10,2-18: 2x6 SP No.2, 3-5,1-19,7-9: 2x4 SP No.2	5-7-0 oc bracing: 12-17

REACTIONS.	(lb/size)
19=1013/0-5-8, 9=1068/0-5-8	
Max Horz 19=-407(LC 10)	
Max Uplift 19=-22(LC 13), 9=-29(LC 12)	
Max Grav 19=1184(LC 21), 9=1216(LC 20)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1287/85, 2-3=-737/236, 3-4=-118/435, 4-5=-119/433, 5-6=-736/234, 6-7=-1291/92, 1-19=-1131/121, 7-9=-1164/176
BOT CHORD	18-19=-402/547, 16-18=0/1826, 14-16=0/1826, 10-14=0/1826, 9-10=-165/337, 15-17=-457/383, 13-15=-1098/0, 12-13=-467/404
WEBS	10-12=0/339, 6-12=0/547, 17-18=-5/329, 2-17=0/536, 3-5=-1454/508, 1-18=0/714, 7-10=-17/694, 15-18=-1199/210, 10-13=-1206/187

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-9 to 3-1-9, Exterior(2) 3-1-9 to 10-0-8, Corner(3) 10-0-8 to 13-0-8, Exterior(2) 13-0-8 to 20-10-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 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.
 - Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).6-12, 2-17
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17, 13-15, 12-13
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 9.
 - Attic room checked for L/360 deflection.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



September 13, 2019

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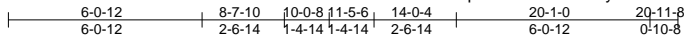
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	B02	ATTIC	3	1	138499912

Builders First Source, Sumter SC

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ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-ntyKVMfU87mOlv7INGDIAoW96xNmJoN0L95Ux?yeRGx



4x6 =

Scale = 1:72.1

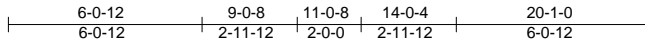
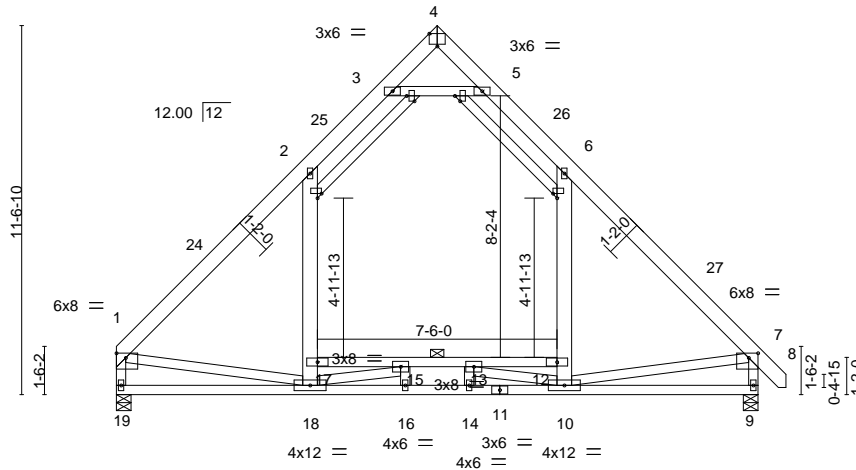


Plate Offsets (X,Y)--	[1:Edge,0-1-12], [4:0-3-0,Edge], [7:0-3-8,0-1-12], [20:0-2-0,Edge], [21:0-1-8,0-1-12], [22:0-2-0,Edge], [23:0-1-8,0-1-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.12	15-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.23	15-17	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.03	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.17	18	>999		
								Weight: 191 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 20-21,22-23: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-3-0 oc bracing. Except:
WEBS 2x4 SP No.3 *Except* 6-10,2-18: 2x6 SP No.2, 3-5,1-19,7-9: 2x4 SP No.2	5-7-0 oc bracing: 12-17

REACTIONS.	(lb/size) 19=1013/0-5-8, 9=1068/0-5-8
	Max Horz 19=383(LC 11)
	Max Uplift 19=-23(LC 13), 9=-30(LC 12)
	Max Grav 19=1184(LC 21), 9=1215(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1288/65, 2-3=-737/201, 3-4=-119/434, 4-5=-116/434, 5-6=-735/201, 6-7=-1290/71, 1-19=-1131/81, 7-9=-1163/131
BOT CHORD	18-19=-386/526, 16-18=0/1825, 14-16=0/1825, 10-14=0/1825, 9-10=-165/334, 15-17=-453/380, 13-15=-1098/0, 12-13=-466/402
WEBS	10-12=0/339, 6-12=0/547, 17-18=-6/329, 2-17=0/536, 3-5=-1454/383, 1-18=0/709, 7-10=-16/693, 15-18=-1198/208, 10-13=-1203/184

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-9 to 3-1-9, Interior(1) 3-1-9 to 10-0-8, Exterior(2) 10-0-8 to 13-0-8, Interior(1) 13-0-8 to 20-10-1 zone; cantilever right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 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.
 - Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).6-12, 2-17
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17, 13-15, 12-13
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 9.
 - Attic room checked for L/360 deflection.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



September 13,2019

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Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	B03	ATTIC	1	1	138499913

Builders First Source, Sumter SC

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ID:h9G7FShkwdXsXwp5Zi0SNOzktn2-F3Wijig6vRuFN3iUx_kXj?2K?KiH2FwAZpr1TSyRgW

Job Reference (optional)

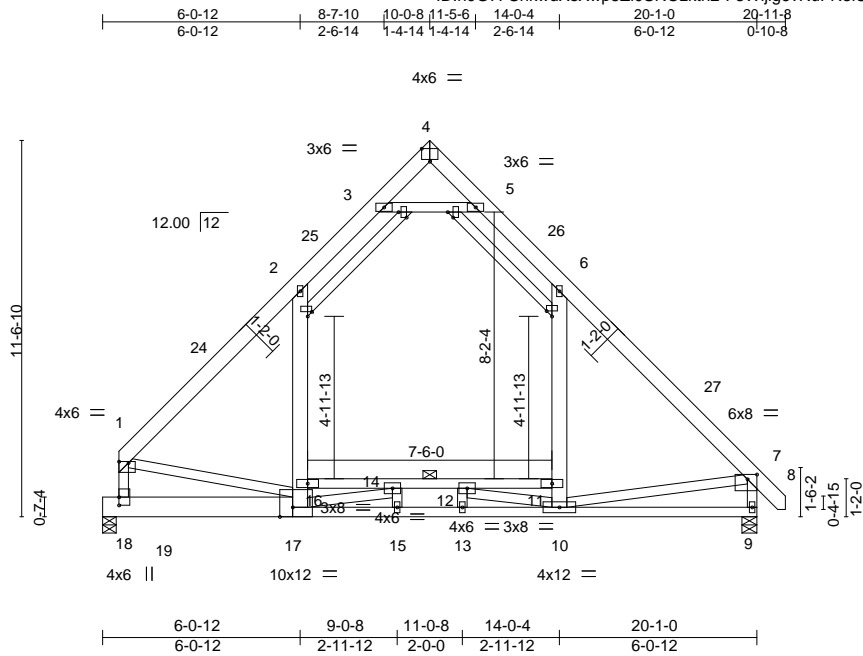


Plate Offsets (X,Y)--	[1:Edge,0-0-8], [4:0-3-0,Edge], [7:0-3-8,0-1-12], [17:0-4-12,Edge], [18:0-3-0,0-0-0], [20:0-2-0,Edge], [21:0-1-8,0-1-12], [22:0-2-0,Edge], [23:0-2-0,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.12 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.23 14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.02 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.17 15-17	>999	240	Weight: 198 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 20-21,22-23: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 17-19: 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 5-8-0 oc bracing: 11-16
WEBS 2x4 SP No.3 *Except* 6-10,2-17: 2x6 SP No.2, 3-5,7-9: 2x4 SP No.2	

REACTIONS.	(lb/size)
	19=985/0-5-0, 9=1065/0-5-8
	Max Horz 19=-381(LC 8)
	Max Uplift 19=-14(LC 13), 9=-27(LC 12)
	Max Grav 19=1164(LC 21), 9=1209(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1297/73, 2-3=-736/201, 3-4=-107/425, 4-5=-113/428, 5-6=-735/198, 6-7=-1282/66, 1-18=-1202/66, 7-9=-1157/129
BOT CHORD	18-19=-376/381, 17-18=-347/487, 15-17=0/1792, 13-15=0/1789, 10-13=0/1789, 9-10=-165/333, 14-16=-464/442, 12-14=-1056/0, 11-12=-442/386
WEBS	10-11=0/332, 6-11=0/541, 16-17=-121/419, 2-16=0/559, 3-5=-1429/371, 1-17=0/714, 7-10=-12/690, 14-17=-1204/225, 10-12=-1161/188

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 10-0-8, Exterior(2) 10-0-8 to 13-0-8, Interior(1) 13-0-8 to 20-10-1 zone; cantilever right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 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.
 - Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).6-11, 2-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16, 12-14, 11-12
 - Bearings are assumed to be: , Joint 9 User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 9.
 - Attic room checked for L/360 deflection.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



September 13, 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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TRENCO ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	C01	GABLE	1	1	138499914
Builders First Source, Sumter SC					

8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 12 07:59:49 2019 Page 1

ID:h9G7FShkwdXsXwp5ZI0SNOzkn2-CSeT7OhNQ28zcNrs2Pm?oQ8qq8W8WCET17K8YKyeRGU



3x6 =

Scale = 1:57.2

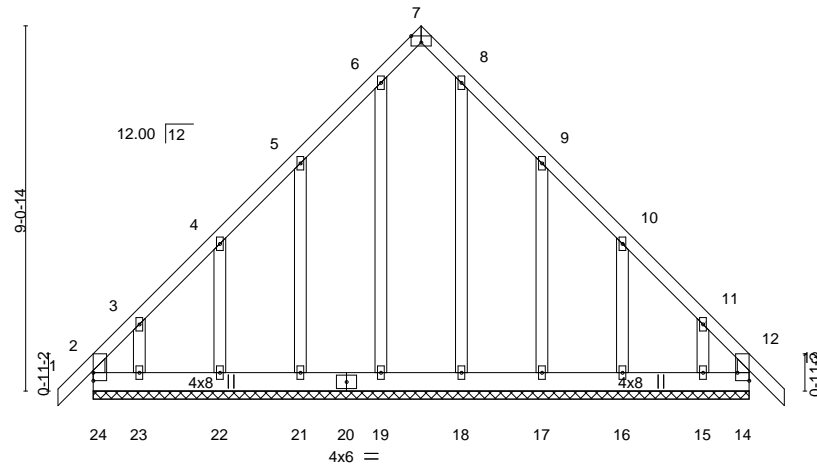


Plate Offsets (X,Y)--	[2:0-1-12,0-1-12], [7:0-3-0,Edge], [12:0-1-12,0-1-12], [14:Edge,0-3-8], [14:0-0-0,0-1-12], [24:0-0-0,0-1-12]
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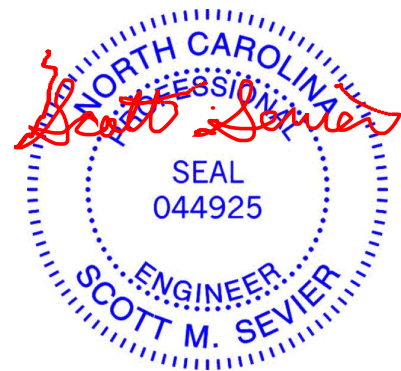
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 130 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 16-3-8.
 (lb) - Max Horz 24=-332(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 18 except 24=-197(LC 10), 14=-171(LC 11), 21=-198(LC 12), 22=-135(LC 12), 23=-364(LC 12), 17=-200(LC 13), 16=-136(LC 13), 15=-358(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 19, 21, 22, 23, 18, 17, 16, 15 except 24=457(LC 12), 14=443(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-24=-309/252, 2-3=-455/325, 3-4=-288/191, 10-11=-276/189, 11-12=-443/333, 12-14=-298/259
 BOT CHORD 23-24=-262/328, 22-23=-262/328, 21-22=-262/328, 19-21=-262/328, 18-19=-262/328, 17-18=-262/328, 16-17=-262/328, 15-16=-262/328, 14-15=-262/328

- 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 Corner(3) 0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 8-1-12, Corner(3) 8-1-12 to 11-1-12, Exterior(2) 11-1-12 to 17-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 18 except (jt=lb) 24=197, 14=171, 21=198, 22=135, 23=364, 17=200, 16=136, 15=358.



September 13, 2019

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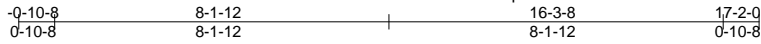
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	C02	Common	1	1	138499915
					Job Reference (optional)

Builders First Source, Sumter SC

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ID:h9G7FShkwdXsXwp5Zi0SN0zkt2-CS7OhNQ28zcNrs2Pm?oQ8mE8RwWCXT17K8YKyeRGu



5x8 ||

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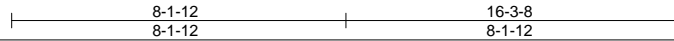
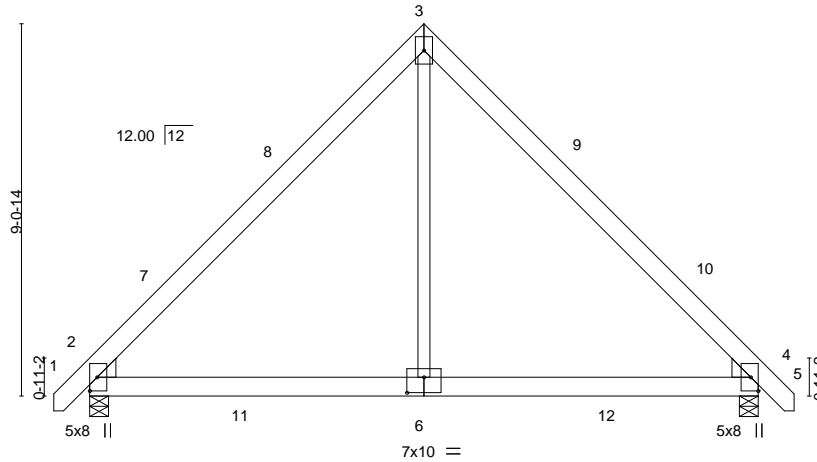


Plate Offsets (X,Y)-- [2:0-1-1,0-1-1], [2:0-2-3,0-5-13], [4:0-2-3,0-5-13], [4:0-1-1,0-1-1], [6:0-5-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.04	4-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.07	4-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.06	2-6	>999		
								Weight: 113 lb	FT = 20%

LUMBER-

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

WEDGE
 Left: 2x6 SP No.2, Right: 2x6 SP No.2

BRACING-

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

REACTIONS.

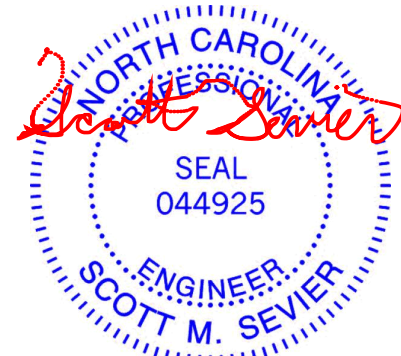
(lb/size) 2=693/0-5-8, 4=693/0-5-8
 Max Horz 2=-297(LC 10)
 Max Uplift 2=-160(LC 12), 4=-160(LC 13)
 Max Grav 2=751(LC 19), 4=751(LC 20)

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

TOP CHORD 2-3=-786/235, 3-4=-785/235
 BOT CHORD 2-6=-40/520, 4-6=-40/520
 WEBS 3-6=0/502

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; BCCL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-1 to 2-2-15, Interior(1) 2-2-15 to 8-1-12, Exterior(2) 8-1-12 to 11-1-12, Interior(1) 11-1-12 to 17-0-9 zone; cantilever left and right exposed; 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 BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=160, 4=160.



September 13, 2019

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	C03	Common	4	1	138499916

Builders First Source, Sumter SC

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5x8 ||

Scale = 1:56.1

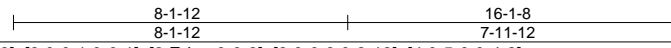
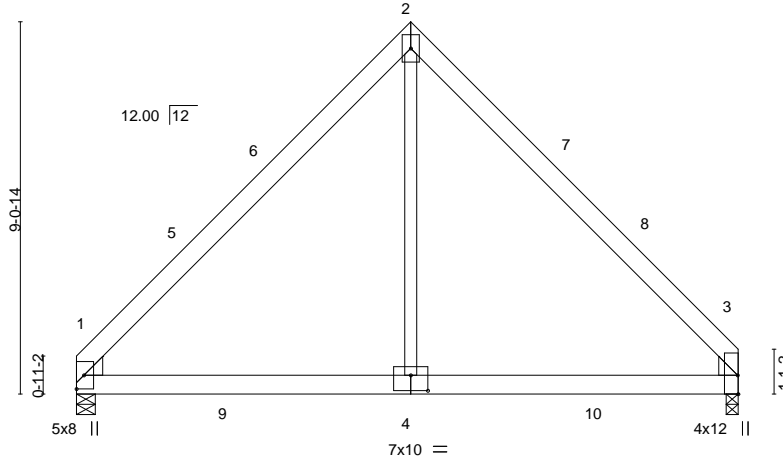


Plate Offsets (X,Y)--	[1:0-1-1,0-1-1], [1:0-2-3,0-5-13], [3:0-0-1,0-0-1], [3:Edge,0-0-3], [3:0-0-3,0-3-13], [4:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.04	1-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.07	1-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.01	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	1-4	>999		
								Weight: 107 lb	FT = 20%

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

REACTIONS. (lb/size) 1=630/0-5-8, 3=630/0-3-8
 Max Horz 1=-284(LC 8)
 Max Uplift 1=-140(LC 13), 3=-141(LC 12)
 Max Grav 1=705(LC 20), 3=707(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-782/228, 2-3=-784/228
 BOT CHORD 1-4=-46/513, 3-4=-46/513
 WEBS 2-4=0/502

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; BCCL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 8-1-12, Exterior(2) 8-1-12 to 11-1-12, Interior(1) 11-1-12 to 15-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=140, 3=141.



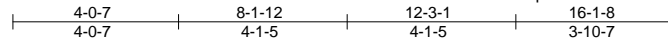
September 13, 2019

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	C04	Common Girder	1	2	138499917

Builders First Source, Sumter SC

8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 12 07:59:51 2019 Page 1

ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-8rmDY4jdygOgsh?FApoTrD5Ey3g_2alURpFcDyeRGs



5x6 =

Scale = 1:56.1

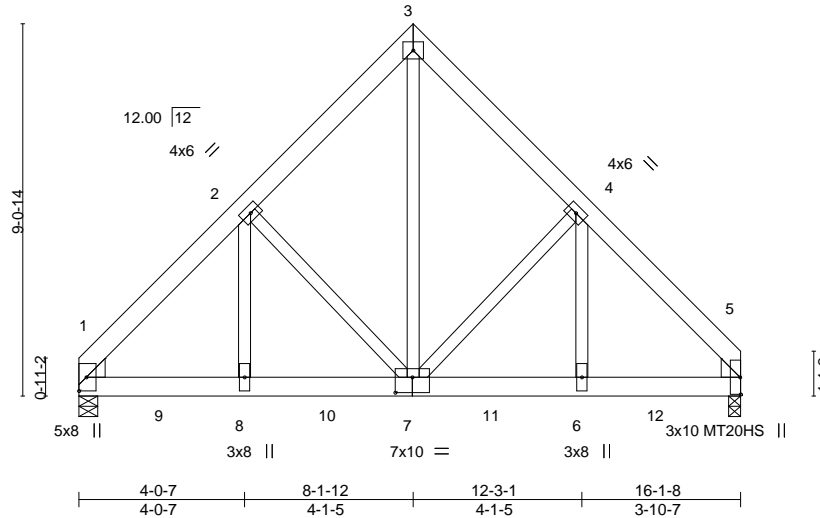


Plate Offsets (X,Y)-- [1:0-1,0-1-1], [1:0-2,3,0-5-13], [5:0-0-3,0-3-13], [5:0-0-1,0-0-1], [7:0-5-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.69	Vert(LL) 0.05 7-8 >999 240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.41	Vert(CT) -0.06 6-7 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 271 lb	FT = 20%

LUMBER-

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

Left: 2x6 SP No.2, Right: 2x6 SP No.2

BRACING-

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

REACTIONS.

(lb/size) 1=3300/0-5-8, 5=3487/0-3-8
 Max Horz 1=284(LC 5)
 Max Uplift 1=-1500(LC 9), 5=-1305(LC 8)
 Max Grav 1=3376(LC 2), 5=3487(LC 1)

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

TOP CHORD 1-2=-3892/1762, 2-3=-2570/1270, 3-4=-2558/1265, 4-5=-3971/1596
 BOT CHORD 1-8=-1195/2515, 7-8=-1198/2521, 6-7=-960/2538, 5-6=-958/2531
 WEBS 2-8=-779/1719, 2-7=-1081/729, 3-7=-1612/3308, 4-7=-1156/550, 4-6=-543/1840

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1500, 5=1305.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 804 lb down and 411 lb up at 2-0-12, 804 lb down and 411 lb up at 4-0-12, 804 lb down and 411 lb up at 6-0-12, 804 lb down and 411 lb up at 8-0-12, 804 lb down and 411 lb up at 10-0-12, and 897 lb down and 261 lb up at 12-0-12, and 897 lb down and 261 lb up at 14-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



September 13, 2019

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Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC	138499917
JobNumber2075761	C04	Common Girder	1	2	Job Reference (optional)	

Builders First Source, Sumter SC

8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 12 07:59:51 2019 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-3=-60, 3-5=-60, 1-5=-20
- Concentrated Loads (lb)
 - Vert: 8=-747(B) 7=-747(B) 6=-897(B) 9=-747(B) 10=-747(B) 11=-747(B) 12=-897(B)

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

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818 Soundside Road
 Edenton, NC 27932

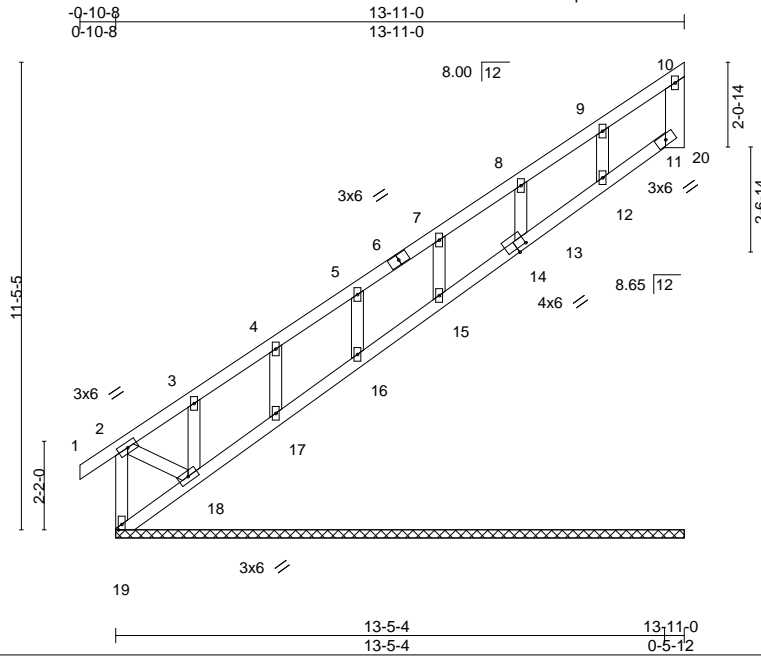
Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	D01	GABLE	1	1	138499918

Builders First Source, Sumter SC

8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 12 07:59:52 2019 Page 1

ID:h9G7FShkwdXsXwp5Zi0SNOzktn2-c1KbmPjFjzWXTqRkXJiQ3mMaLYvjYvj5Yo9fyeRGr

Job Reference (optional)



Scale = 1:56.4

Plate Offsets (X,Y)--	[13:0-2-3,0-0-0], [14:0-3-0,0-1-4], [14:0-0-0,0-1-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) 0.00 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) 0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.00 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 75 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	10-20: 2x6 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 15-16,12-13.

REACTIONS. All bearings 13-11-0.

(lb) - Max Horz 19=418(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 11, 16 except 19=295(LC 10), 12=147(LC 12), 15=183(LC 12), 17=117(LC 12), 18=601(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 11, 16, 17 except 19=716(LC 12), 12=314(LC 19), 15=315(LC 19), 18=380(LC 10)

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

TOP CHORD	2-19=-397/326, 2-3=-474/425, 3-4=-400/374, 4-5=-311/299
BOT CHORD	18-19=-630/631
WEBS	2-18=-490/496

- NOTES-** (13)
- 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) -0-10-8 to 1-11-0, Interior(1) 1-11-0 to 13-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 10) Bearing at joint(s) 19, 20, 11, 12, 15, 16, 17, 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 16 except (jt=lb) 19=295, 12=147, 15=183, 17=117, 18=601.
 - 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 20, 11, 12, 15, 16, 17, 18.
 - 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



September 13, 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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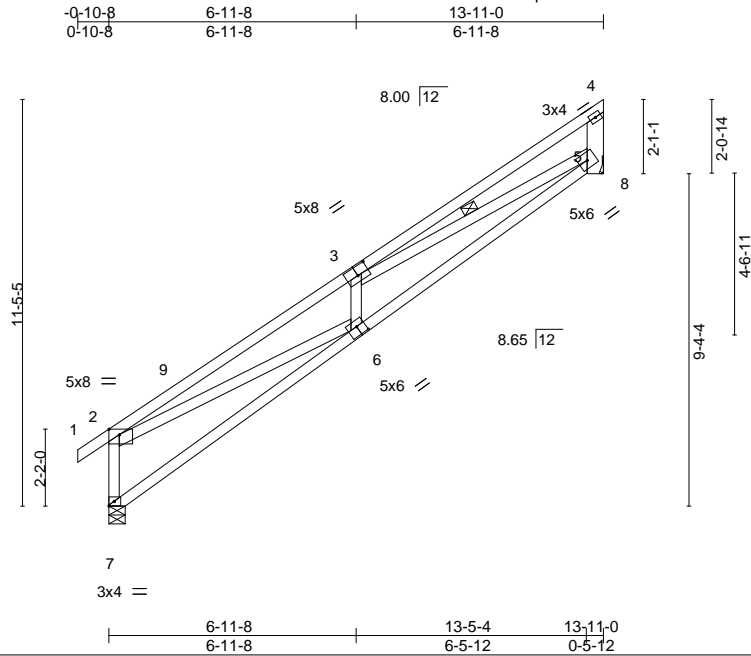
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	D02	Monopitch	9	1	138499919
					Job Reference (optional)

Builders First Source, Sumter SC

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ID:h9G7FShkwdXsWp5ZI0SNOzkt2-YPRMB5IVFmFj8kqyMAVUrai96hBL4CAP1vDYyRGp



Scale = 1:64.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.08 6-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.62	Vert(CT) -0.19 6-7 >838 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.05 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.16 6 >999 240	Weight: 83 lb	FT = 20%

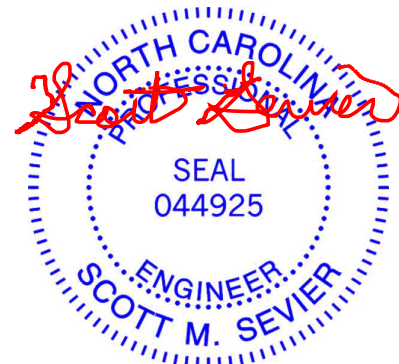
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 4-8: 2x6 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-0-8 oc bracing.
 WEBS 1 Row at midpt 3-5

REACTIONS. (lb/size) 7=605/0-5-8, 8=539/Mechanical
 Max Horz 7=463(LC 12)
 Max Uplift 8=421(LC 12)
 Max Grav 7=605(LC 1), 8=635(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-748/412, 2-3=-1829/865, 3-4=-265/0, 5-8=-746/421
 BOT CHORD 6-7=-680/731, 5-6=-1302/2188
 WEBS 2-6=-561/1374, 3-5=-1753/1046

- NOTES-** (8)
- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-8-4 zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=421.
 - 8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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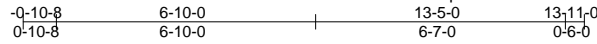
Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	D03	Roof Special	1	1	138499920

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ID:h9G7FShkwdXsXwp5Zi0SN0zkt2-YPRMB5IVFbmFj8kqyMAVUrci97LBQHCAP1vDYeRGp

Job Reference (optional)



Scale = 1:60.7

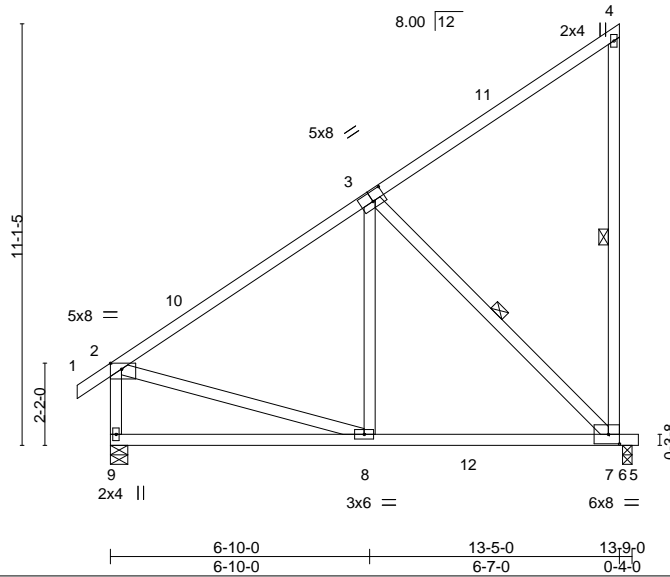


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [3:0-4-0,0-3-0], [7:0-3-8,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(LL) -0.07 7-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.29	Vert(CT) -0.16 7-8 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.01 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.09 7-8 >999 240	Weight: 97 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except* 4-7: 2x4 SP No.2	WEBS 8-0-4 oc bracing: 8-9. 1 Row at midpt 4-7, 3-7

REACTIONS.
(lb/size) 9=602/0-5-8, 6=522/0-3-0
Max Horz 9=452(LC 12)
Max Uplift 9=-9(LC 12), 6=-386(LC 12)
Max Grav 9=602(LC 1), 6=656(LC 19)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-513/0, 2-9=-552/67
BOT CHORD 8-9=-521/527, 7-8=-291/496
WEBS 3-8=-2/271, 3-7=-679/400, 2-8=-32/359

- NOTES-** (6)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-3-4 zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 4) Bearings are assumed to be: Joint 9 User Defined crushing capacity of 565 psi.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 6=386.
 - 6) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



September 13, 2019

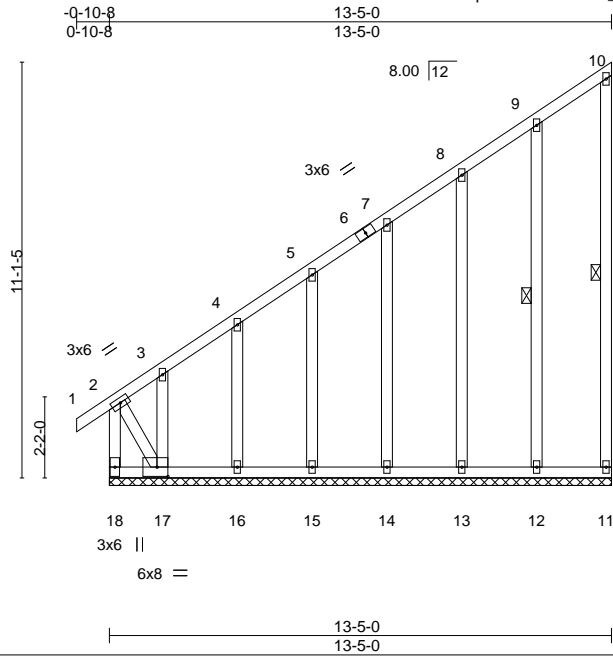
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	D05	GABLE	1	1	138499922
					Job Reference (optional)

Builders First Source, Sumter SC

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ID:h9G7FShkwdXsXwp5Zi0SN0zkt2-z_7Up7nOYW9qacSPW4vt76TBkMFL0n9etNGZqyeRGM



Scale = 1:61.6

Plate Offsets (X,Y)--	[17'-0-3-8-0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) 0.00 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.00 2 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) -0.00 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 119 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except*	6-0-0 oc bracing: 17-18.
10-11: 2x4 SP No.2	1 Row at midpt 10-11, 9-12
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 13-5-0.
 (lb) - Max Horz 18=452(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 11 except 18=-347(LC 10), 12=-103(LC 12), 13=-104(LC 12), 14=-103(LC 12), 15=-101(LC 12), 16=-111(LC 12), 17=-777(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 11, 12, 13, 14, 15, 16 except 18=938(LC 12), 17=417(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-996/758, 2-3=-524/442, 3-4=-464/380, 4-5=-375/306, 5-7=-293/240
 BOT CHORD 17-18=-512/416
 WEBS 2-17=-758/934

- NOTES-** (11)
- 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 Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 13-3-4 zone; cantilever left exposed ; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 18=347, 12=103, 13=104, 14=103, 15=101, 16=111, 17=777.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



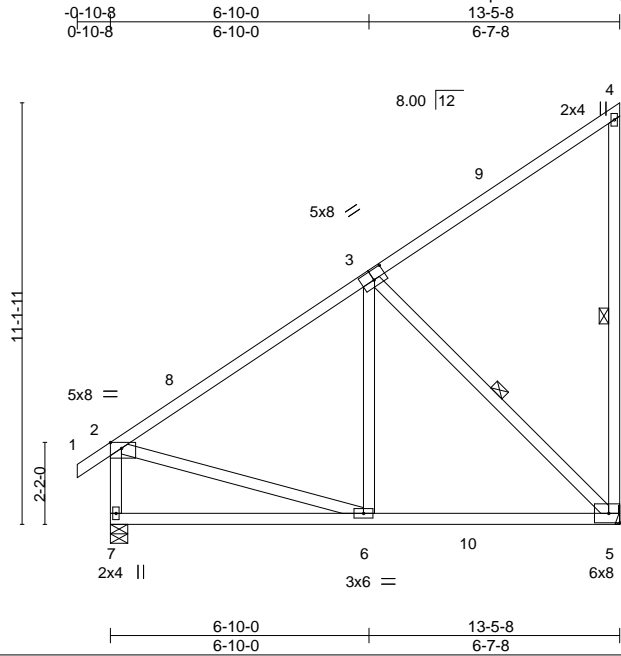
September 13, 2019

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	D06	Monopitch	1	1	138499923
					Job Reference (optional)

Builders First Source, Sumter SC

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ID:h9G7FShkwdXsXwp5Zi0SN0zkt2-z_7Up7nOYW9qacSPW4vt76T7pMAAOAetNGZqyeRGm



Scale = 1:60.9

Plate Offsets (X,Y)--	[2:0-3-8,Edge], [3:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.43	Vert(LL) -0.04 5-6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.09 5-6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.01 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.01 6 >999 240	Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-0-12 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-5: 2x4 SP No.2	WEBS 1 Row at midpt 4-5, 3-5

REACTIONS. (lb/size) 5=524/Mechanical, 7=590/0-5-8
 Max Horz 7=453(LC 12)
 Max Uplift 5=-405(LC 12)
 Max Grav 5=663(LC 19), 7=590(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-491/0, 2-7=-531/55
 BOT CHORD 6-7=-527/535, 5-6=-276/469
 WEBS 3-6=0/253, 3-5=-653/385, 2-6=-67/351

- NOTES-** (7)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-3-12 zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 5=405.
 - 7) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



September 13, 2019

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Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC	138499925
JobNumber2075761	J01	GABLE	1	1		

Builders First Source, Sumter SC

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ID:h9G7FShkwdXsXwp5Zi0SN0zkt2-vNFFEppe47PYpvcneVylLCXYRAArfs_xKhlgulyeRGk
5-11-8 5-11-8

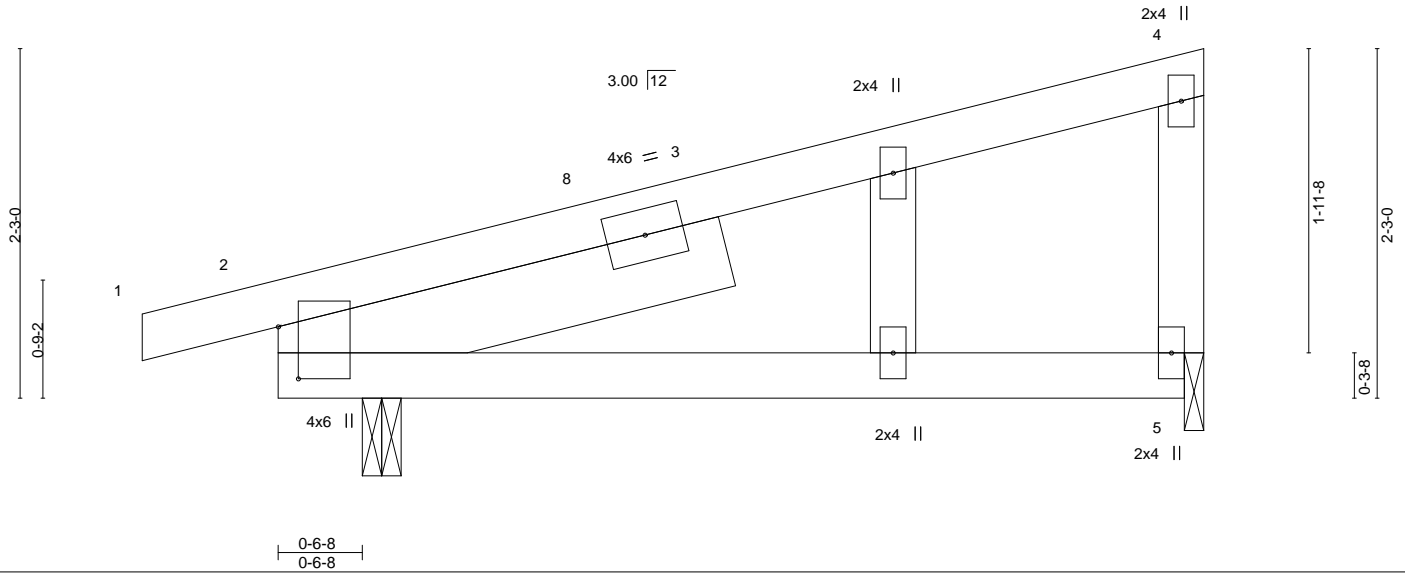
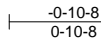


Plate Offsets (X,Y)--	[2:0-4-0,0-1-9]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.07 2-5 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.14 2-5 >509 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.17 2-5 >412 240	Weight: 30 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 2-11-9	

REACTIONS. (lb/size) 2=289/0-3-0, 5=229/0-1-8
Max Horz 2=89(LC 12)
Max Uplift 2=-192(LC 8), 5=-166(LC 8)

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

- NOTES-** (9)
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-12 zone; cantilever left exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable studs spaced at 2-0-0 oc.
 - 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=192, 5=166.
 - 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



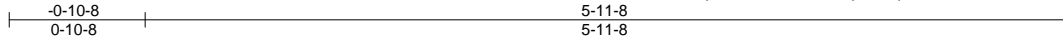
September 13, 2019

Job	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC	138499926
JobNumber2075761	J02	Monopitch	7	1		

Builders First Source, Sumter SC

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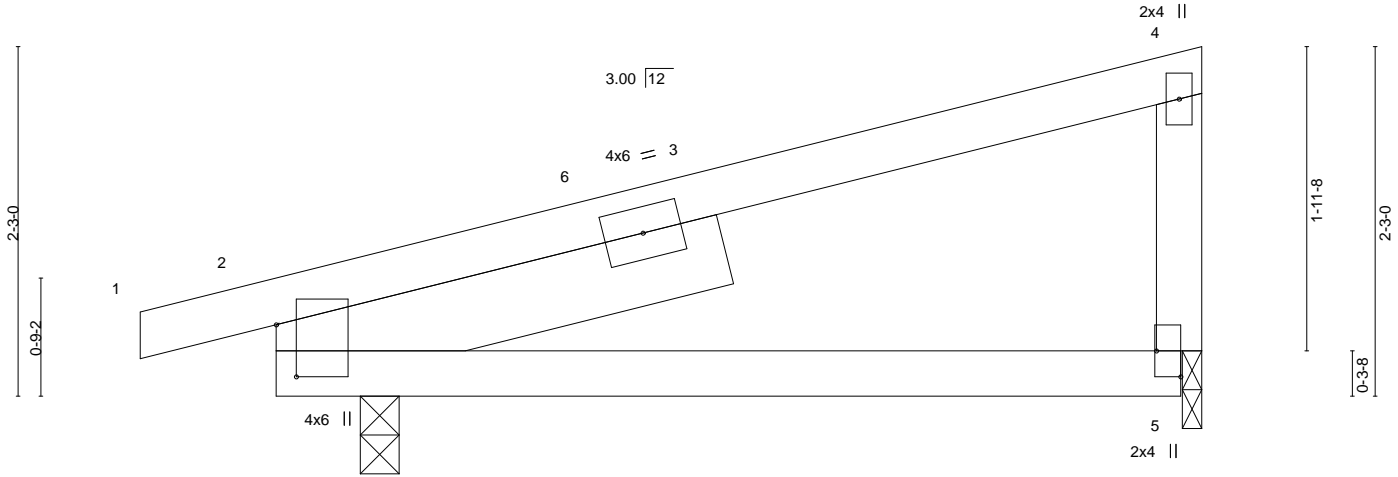


Plate Offsets (X,Y)-- [2:0-4,0,0-1-9], [5:Edge,0-1-14]

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 0.65	Vert(LL)	-0.07	2-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.14	2-5	>509		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.17	2-5	>412	Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 2-11-9

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=289/0-3-0, 5=229/0-1-8
 Max Horz 2=89(LC 12)
 Max Uplift 2=-192(LC 8), 5=-166(LC 8)

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-12 zone; cantilever left exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=192, 5=166.



September 13, 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	Truss	Truss Type	Qty	Ply	H&H/Aiken/Lot1/HiddenLakes/SpringLakeNC
JobNumber2075761	J03	GABLE	2	1	138499927

Builders First Source, Sumter SC

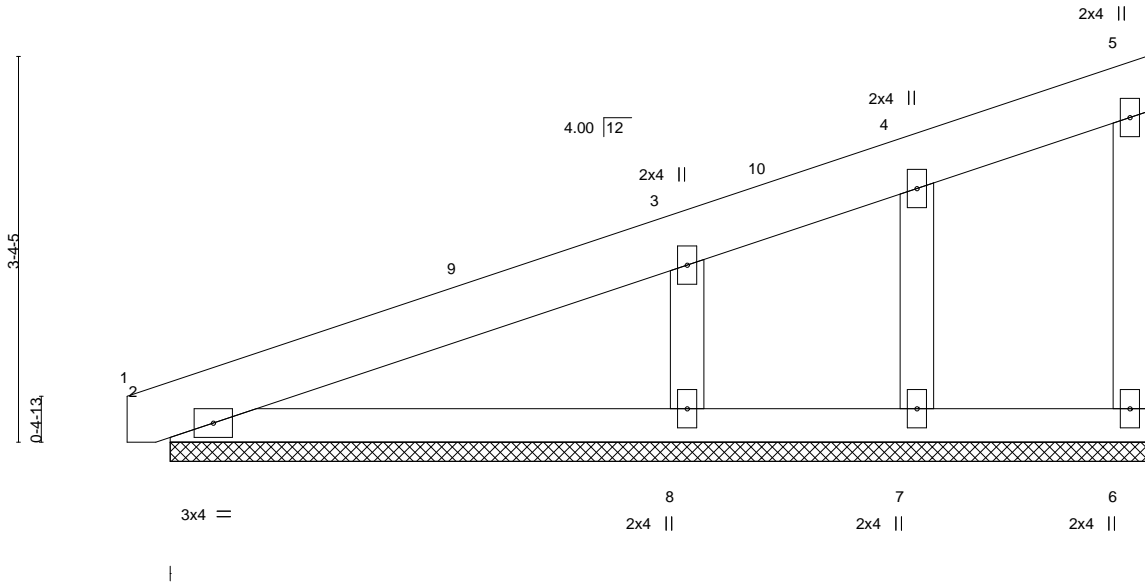
8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 12 08:00:01 2019 Page 1

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0-4-8
0-4-8

8-6-0
8-6-0

Job Reference (optional)



Scale = 1:20.1

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 0.12	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 43 lb	FT = 20%

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

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

REACTIONS. All bearings 8-6-0.
 (lb) - Max Horz 2=152(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=161(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=367(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-8=275/362

- NOTES-** (9)
- 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 Corner(3) -0-3-0 to 2-9-0, Exterior(2) 2-9-0 to 8-4-4 zone; cantilever left exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except (jt=lb) 8=161.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



September 13, 2019

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

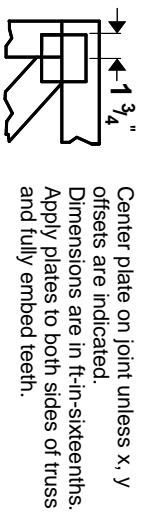
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



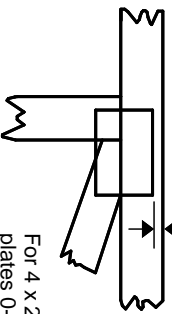
818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

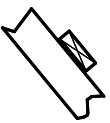
* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

4 X 4

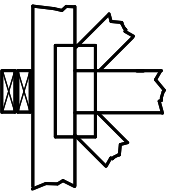
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

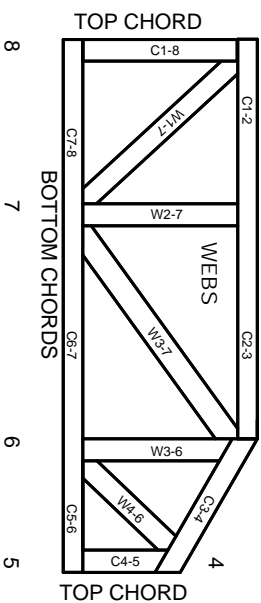


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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