

RE: 812025 - H&H/Jessamine/

Trenco  
 818 Soundside Rd  
 Edenton, NC 27932

**Site Information:**

Project Customer: h and h Project Name: 812025 120 mph  
 Lot/Block: c Subdivision: ALL  
 Model:  
 Address:  
 City: Fayetteville State: nc

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.2  
 Wind Code: ASCE 7-10 Wind Speed: 120 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-10  
 Roof Load: 40.0 psf Floor Load: N/A psf  
 Mean Roof Height (feet): 25 Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I37204590	A01	5/28/19	35	I37204624	B06	5/28/19
2	I37204591	A02	5/28/19	36	I37204625	B10	5/28/19
3	I37204592	A03	5/28/19	37	I37204626	B11	5/28/19
4	I37204593	A04	5/28/19	38	I37204627	C01	5/28/19
5	I37204594	A05	5/28/19	39	I37204628	C02	5/28/19
6	I37204595	A06	5/28/19	40	I37204629	C03	5/28/19
7	I37204596	A06A	5/28/19	41	I37204630	C04	5/28/19
8	I37204597	A07	5/28/19	42	I37204631	C05	5/28/19
9	I37204598	A08	5/28/19	43	I37204632	C11	5/28/19
10	I37204599	A09	5/28/19	44	I37204633	C12	5/28/19
11	I37204600	A10	5/28/19	45	I37204634	C13	5/28/19
12	I37204601	A11	5/28/19	46	I37204635	C14	5/28/19
13	I37204602	A12	5/28/19	47	I37204636	C15	5/28/19
14	I37204603	A13	5/28/19	48	I37204637	C21	5/28/19
15	I37204604	A14	5/28/19	49	I37204638	C22	5/28/19
16	I37204605	A15	5/28/19	50	I37204639	C23	5/28/19
17	I37204606	A16	5/28/19	51	I37204640	C24	5/28/19
18	I37204607	A17	5/28/19	52	I37204641	C25	5/28/19
19	I37204608	A18	5/28/19	53	I37204642	CP01	5/28/19
20	I37204609	A19	5/28/19	54	I37204643	CP02	5/28/19
21	I37204610	A20	5/28/19	55	I37204644	CP03	5/28/19
22	I37204611	A21	5/28/19	56	I37204645	D01	5/28/19
23	I37204612	A22	5/28/19	57	I37204646	D11	5/28/19
24	I37204613	A23	5/28/19	58	I37204647	D21	5/28/19
25	I37204614	A24	5/28/19	59	I37204648	E01	5/28/19
26	I37204615	A25	5/28/19	60	I37204649	E02	5/28/19
27	I37204616	A26	5/28/19	61	I37204650	G01	5/28/19
28	I37204617	A27	5/28/19	62	I37204651	G02	5/28/19
29	I37204618	A28	5/28/19	63	I37204652	G03	5/28/19
30	I37204619	B01	5/28/19	64	I37204653	J01	5/28/19
31	I37204620	B02	5/28/19	65	I37204654	J02	5/28/19
32	I37204621	B03	5/28/19	66	I37204655	J03	5/28/19
33	I37204622	B04	5/28/19	67	I37204656	J04	5/28/19
34	I37204623	B05	5/28/19	68	I37204657	J05	5/28/19

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

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of North Carolina is December 31, 2019.

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



May 28, 2019

RE: 812025 - H&H/Jessamine/

Trenco  
818 Soundside Rd  
Edenton, NC 27932

No.	Seal#	Job ID#	Truss Name	Date
69	I37204658	812025	J06	5/28/19
70	I37204659	812025	J07	5/28/19
71	I37204660	812025	J08	5/28/19
72	I37204661	812025	J09	5/28/19
73	I37204662	812025	J10	5/28/19
74	I37204663	812025	J11	5/28/19
75	I37204664	812025	J12	5/28/19
76	I37204665	812025	J13	5/28/19
77	I37204666	812025	J14	5/28/19
78	I37204667	812025	J15	5/28/19
79	I37204668	812025	J201	5/28/19
80	I37204669	812025	J202	5/28/19
81	I37204670	812025	J203	5/28/19
82	I37204671	812025	J204	5/28/19
83	I37204672	812025	J205	5/28/19
84	I37204673	812025	J206	5/28/19
85	I37204674	812025	J207	5/28/19
86	I37204675	812025	J208	5/28/19
87	I37204676	812025	J209	5/28/19
88	I37204677	812025	J211	5/28/19
89	I37204678	812025	J212	5/28/19
90	I37204679	812025	J214	5/28/19
91	I37204680	812025	J215	5/28/19
92	I37204681	812025	J216	5/28/19
93	I37204682	812025	J217	5/28/19
94	I37204683	812025	J220	5/28/19
95	I37204684	812025	J221	5/28/19
96	I37204685	812025	J222	5/28/19
97	I37204686	812025	J223	5/28/19
98	I37204687	812025	J224	5/28/19
99	I37204688	812025	J225	5/28/19
100	I37204689	812025	J226	5/28/19
101	I37204690	812025	J227	5/28/19
102	I37204691	812025	J228	5/28/19
103	I37204692	812025	J229	5/28/19
104	I37204693	812025	J230	5/28/19
105	I37204694	812025	J231	5/28/19
106	I37204695	812025	J232	5/28/19
107	I37204696	812025	J233	5/28/19
108	I37204697	812025	J234	5/28/19
109	I37204698	812025	J235	5/28/19
110	I37204699	812025	J236	5/28/19
111	I37204700	812025	J237	5/28/19

Job 812025	Truss A01	Truss Type GABLE	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204590
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8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:51:35 2019 Page 1  
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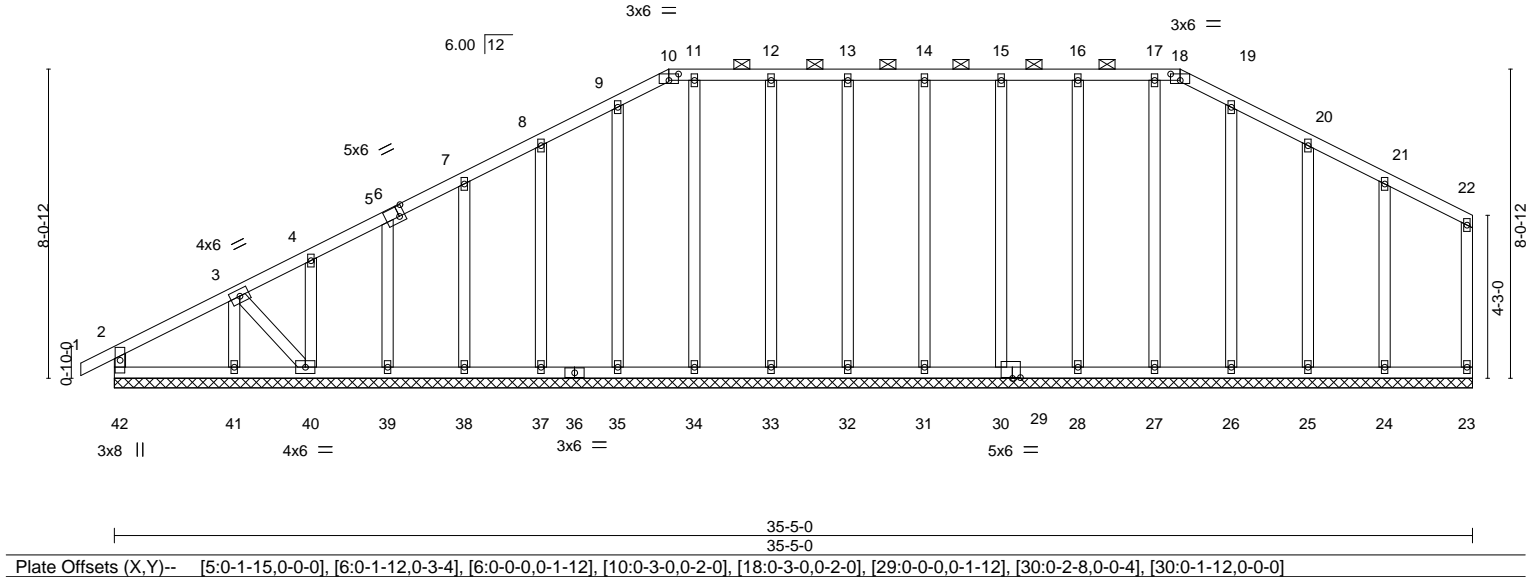


Plate Offsets (X,Y)--	[5:0-1-15,0-0-0], [6:0-1-12,0-3-4], [6:0-0-0,0-1-12], [10:0-3-0,0-2-0], [18:0-3-0,0-2-0], [29:0-0-0,0-1-12], [30:0-2-8,0-0-4], [30:0-1-12,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	-0.00	23	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 264 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals, and 2'-0-0 oc purlins (6'-0-0 max.): 10-18.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 35-5-0.  
 (lb) - Max Horz 42=243(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 42, 23, 31, 32, 33, 34, 35, 37, 38, 39, 41, 30, 28, 27, 26, 25, 24 except 40=208(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 42, 23, 31, 32, 33, 34, 35, 37, 38, 39, 40, 41, 30, 28, 27, 26, 25, 24

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 9-10=-141/259, 10-11=-128/254, 11-12=-128/254, 12-13=-128/254, 13-14=-128/254, 14-15=-128/254, 15-16=-128/254, 16-17=-128/254, 17-18=-128/254, 18-19=-141/259  
 WEBS 3-40=-151/257

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed on 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) 42, 23, 31, 32, 33, 34, 35, 37, 38, 39, 41, 30, 28, 27, 26, 25, 24 except (jt=lb) 40=208.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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

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

**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

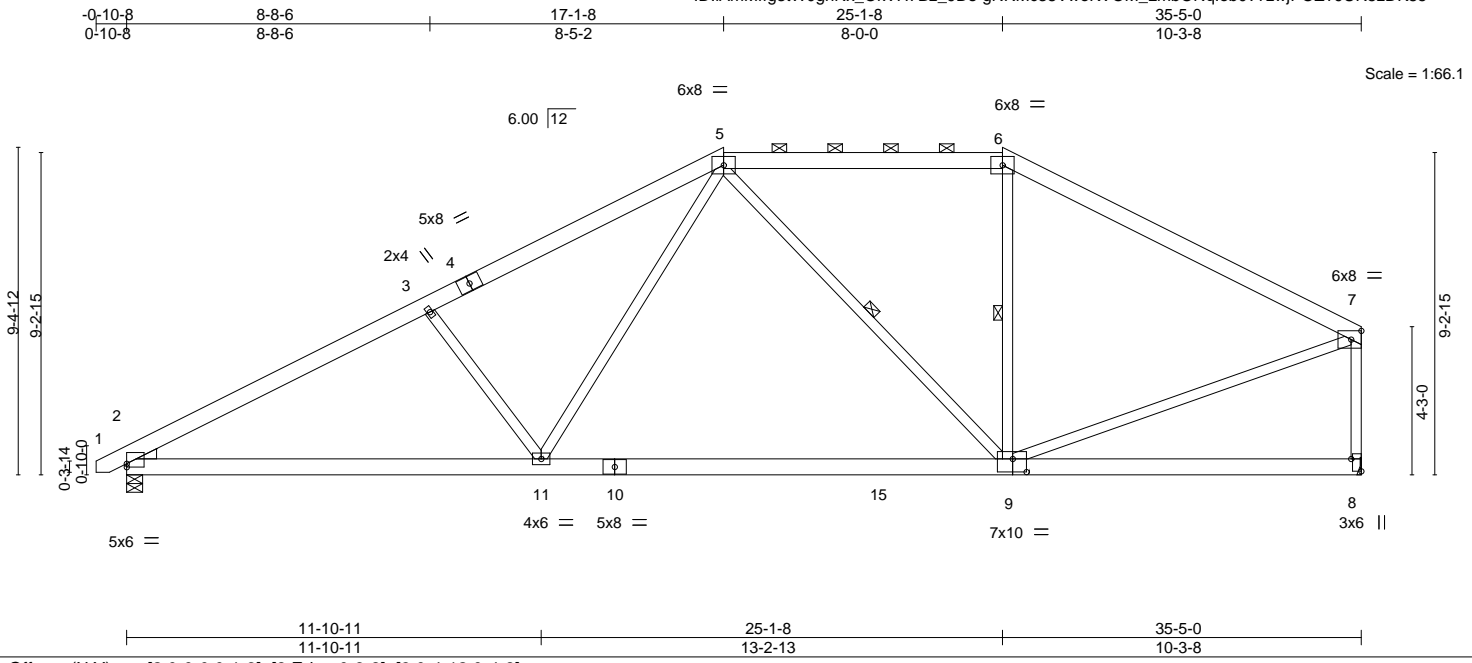
Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	137204591
812025	A02	HIP	3	1		

Builders First Source, Sumter SC

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Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.41 9-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.58	Vert(CT) -0.62 9-11 >686 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.05 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 9-11 >999 240	Weight: 250 lb	FT = 20%

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

**REACTIONS.** (lb/size) 2=1452/0-5-8, 8=1410/Mechanical  
 Max Horz 2=264(LC 12)  
 Max Uplift 2=-262(LC 12), 8=-176(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2388/755, 3-5=-2107/736, 5-6=-1218/541, 6-7=-1482/481, 7-8=-1330/474  
 BOT CHORD 2-11=-720/2032, 9-11=-396/1413  
 WEBS 3-11=-441/392, 5-11=-186/809, 5-9=-405/193, 6-9=-88/272, 7-9=-267/1254

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 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) 2=262, 8=176.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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

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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss A03	Truss Type HIP	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204592
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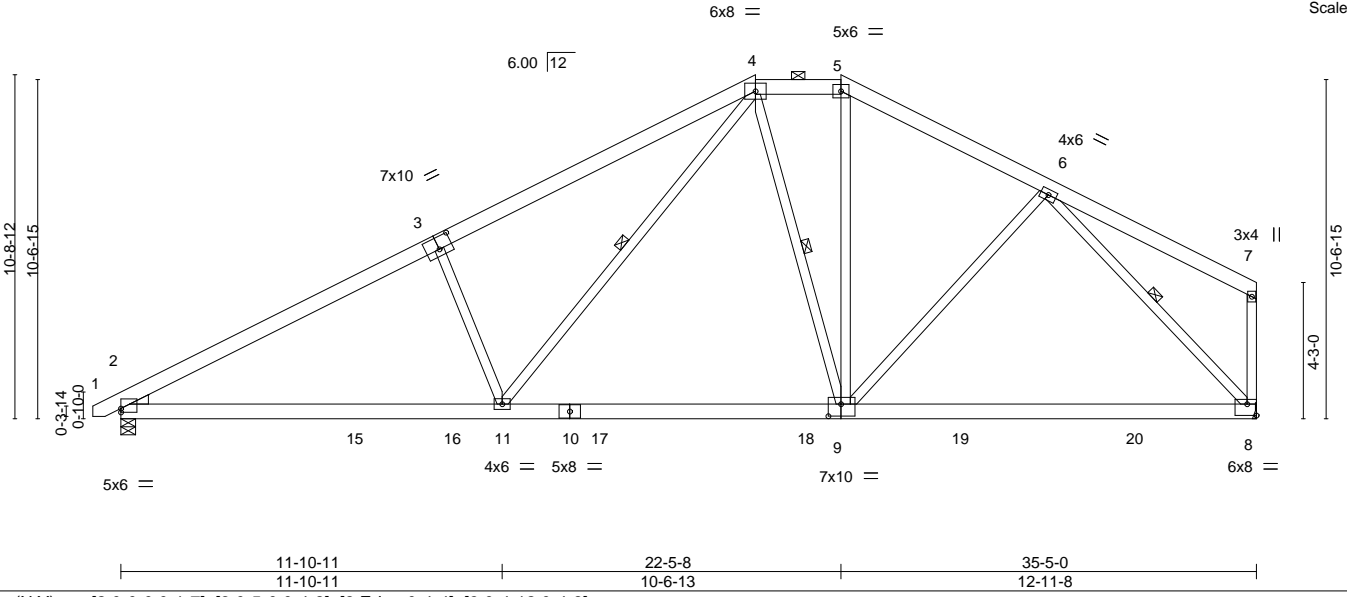


Plate Offsets (X, Y)--	[2:0-0-0,0-1-7], [3:0-5-0,0-4-8], [8:Edge,0-4-4], [9:0-4-12,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.95	Vert(LL)	-0.23	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.44	8-9	>972		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.05	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08	11-14	>999		
								Weight: 266 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 4-11: 2x4 SP No.2	WEBS 1 Row at midpt 4-11, 4-9, 6-8
WEDGE Left: 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=1452/0-5-8, 8=1410/Mechanical  
 Max Horz 2=290(LC 12)  
 Max Uplift 2=-280(LC 12), 8=-204(LC 13)  
 Max Grav 2=1461(LC 2), 8=1490(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2417/758, 3-4=-2242/851, 4-5=-1275/564, 5-6=-1495/568  
 BOT CHORD 2-11=-708/2069, 9-11=-307/1319, 8-9=-346/1092  
 WEBS 3-11=-553/458, 4-11=-382/967, 4-9=-380/268, 5-9=-148/483, 6-9=0/357, 6-8=-1514/527

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=280, 8=204.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Job 812025	Truss A04	Truss Type COMMON	Qty 9	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204593
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Builders First Source, Sumter SC

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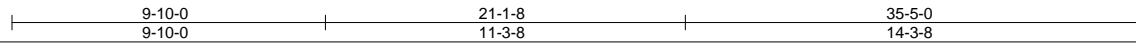
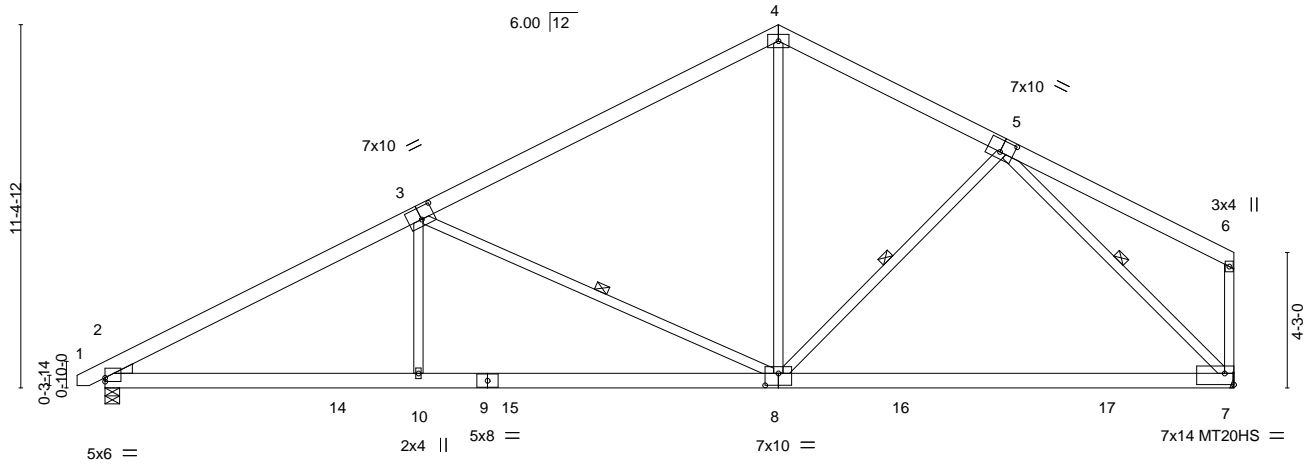


Plate Offsets (X,Y)-- [2:0-0-0,0-1-7], [3:0-5-0,0-4-8], [5:0-5-0,0-4-8], [7:Edge,0-4-4], [8:0-5-0,0-4-8]

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 0.85	Vert(LL)	-0.45	7-8	>950	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.73	7-8	>576	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.06	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08	8-10	>999	240		
									Weight: 254 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 3-8,6-7: 2x4 SP No.2	WEBS 1 Row at midpt 3-8, 5-8, 5-7
WEDGE Left: 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=1452/0-5-8, 7=1410/Mechanical  
 Max Horz 2=304(LC 12)  
 Max Uplift 2=-286(LC 12), 7=-216(LC 13)  
 Max Grav 2=1452(LC 1), 7=1435(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2385/759, 3-4=-1458/553, 4-5=-1386/585  
 BOT CHORD 2-10=-714/2038, 8-10=-714/2038, 7-8=-357/1077  
 WEBS 3-10=0/373, 3-8=-974/511, 4-8=-153/708, 5-8=-38/284, 5-7=-1453/524

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=286, 7=216.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

**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.

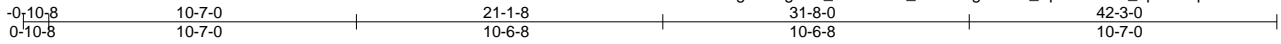
**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss A05	Truss Type COMMON	Qty 24	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204594
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:51:40 2019 Page 1  
ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-Y8gtSRB?\_txtzl7?RTJ\_8pJXWqcsVPzUd7haszDK81



6x8 =

Scale = 1:79.3

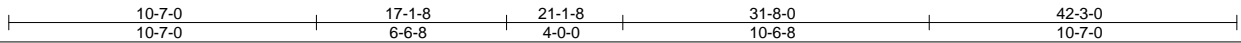
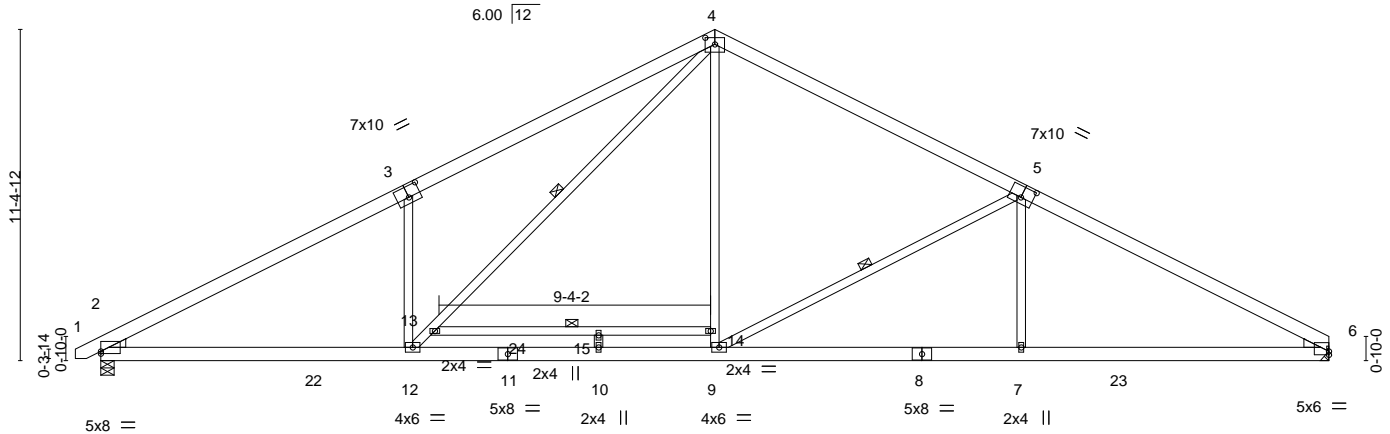


Plate Offsets (X, Y)-- [2:0-0-0,0-0-15], [3:0-5-0,0-4-8], [4:0-4-0,0-2-12], [5:0-5-0,0-4-8], [6:Edge,0-1-7]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.26	10-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.43	10-12	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.71	Horz(CT)	0.10	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.11	10-12	>999	Weight: 299 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
4-12,13-14: 2x4 SP No.2

WEDGE  
Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 5-9, 4-12, 13-14

**REACTIONS.** (lb/size) 2=1731/0-5-8, 6=1690/Mechanical  
Max Horz 2=136(LC 9)  
Max Uplift 2=-79(LC 12), 6=-70(LC 13)  
Max Grav 2=1762(LC 2), 6=1736(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3052/938, 3-4=-3039/1226, 4-5=-2137/786, 5-6=-3067/941  
BOT CHORD 2-12=-687/2670, 10-12=-299/1846, 9-10=-299/1846, 7-9=-689/2642, 6-7=-691/2637  
WEBS 9-14=-93/856, 4-14=-91/939, 5-9=-992/457, 5-7=0/440, 12-13=-559/1184,  
4-13=-568/1222, 3-12=-653/534

**NOTES-** (9)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left 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 2 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) 2, 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.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-6=-60, 16-19=-20



May 28, 2019

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

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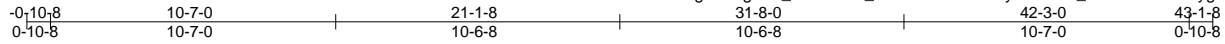
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	137204595
812025	A06	COMMON	10	1		

Builders First Source, Sumter SC

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6x8 =

Scale = 1:85.5

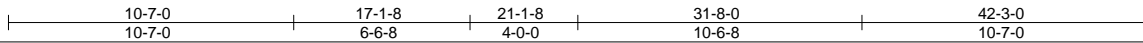
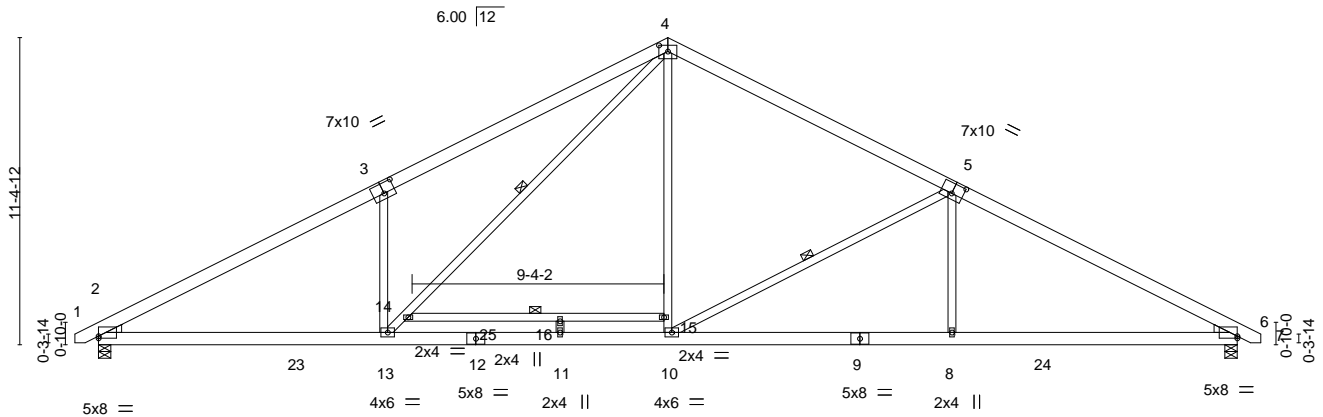


Plate Offsets (X,Y)--	[2:0-0-0,0-15], [3:0-5-0,0-4-8], [4:0-4-0,0-2-12], [5:0-5-0,0-4-8], [6:Edge,0-0-15]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.84	Vert(LL) -0.26 11-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.71	Vert(CT) -0.42 11-13 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-AS	Horz(CT) 0.10 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.11 11-13 >999 240	Weight: 301 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* 4-13,14-15: 2x4 SP No.2	WEBS 1 Row at midpt 5-10, 4-13, 14-15

WEDGE  
Left: 2x4 SP No.3, Right: 2x4 SP No.3

**REACTIONS.** (lb/size) 2=1731/0-5-8, 6=1731/0-5-8  
Max Horz 2=135(LC 11)  
Max Uplift 2=-79(LC 12), 6=-79(LC 13)  
Max Grav 2=1759(LC 2), 6=1770(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3046/937, 3-4=-3034/1225, 4-5=-2133/785, 5-6=-3063/940  
BOT CHORD 2-13=-671/2669, 11-13=-284/1846, 10-11=-284/1846, 8-10=-673/2638, 6-8=-675/2633  
WEBS 10-15=-93/854, 4-15=-90/937, 5-10=-991/456, 5-8=0/440, 13-14=-559/1182,  
4-14=-568/1219, 3-13=-653/534

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-7=-60, 17-20=-20



May 28, 2019

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**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

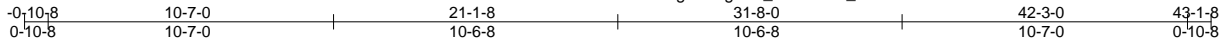


Job 812025	Truss A06A	Truss Type COMMON	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204596
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:51:42 2019 Page 1

ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-UWodt6CGWU4f6HSV6sVo3ZubuKVuKP2GxwcofzDK8?



6x8 =

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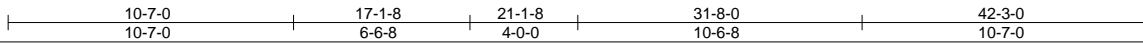
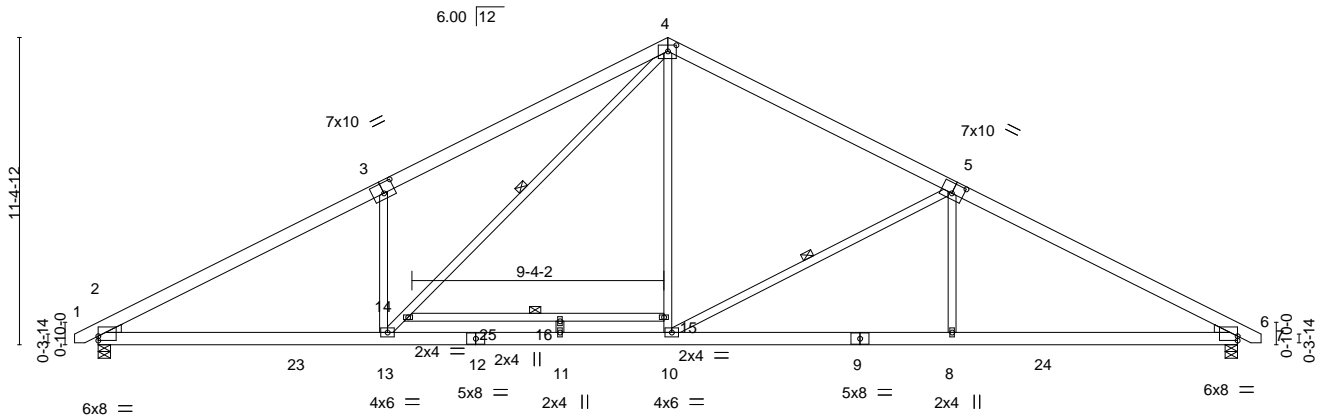


Plate Offsets (X, Y)--	[2:0-0,0,0-1-15], [3:0-5-0,0-4-8], [4:0-3-12,0-2-12], [5:0-5-0,0-4-8], [6:Edge,0-1-15]
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LOADING (psf)	SPACING-	2-1-8	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.26	11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.43	11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.11	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.12	11-13	>999	240		
									Weight: 301 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except 1-3,5-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-7-1 oc bracing.
WEBS 2x4 SP No.3 *Except 4-13,14-15: 2x4 SP No.2	WEBS 1 Row at midpt 5-10, 4-13, 14-15
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS.	(lb/size)
2=1839/0-5-8, 6=1839/0-5-8	
Max Horz 2=143(LC 11)	
Max Uplift 2=-84(LC 12), 6=-84(LC 13)	
Max Grav 2=1862(LC 2), 6=1875(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3227/1001, 3-4=-3223/1313, 4-5=-2250/829, 5-6=-3249/1003
BOT CHORD	2-13=-719/2830, 11-13=-293/1941, 10-11=-293/1941, 8-10=-720/2800, 6-8=-722/2795
WEBS	10-15=-106/906, 4-15=-103/990, 5-10=-1072/500, 5-8=0/465, 13-14=-614/1276, 4-14=-624/1315, 3-13=-709/581

- NOTES-** (7)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-4=-64, 4-7=-64, 17-20=-21	



**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

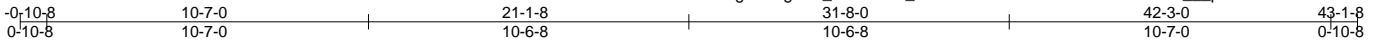
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss A07	Truss Type COMMON	Qty 6	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204597
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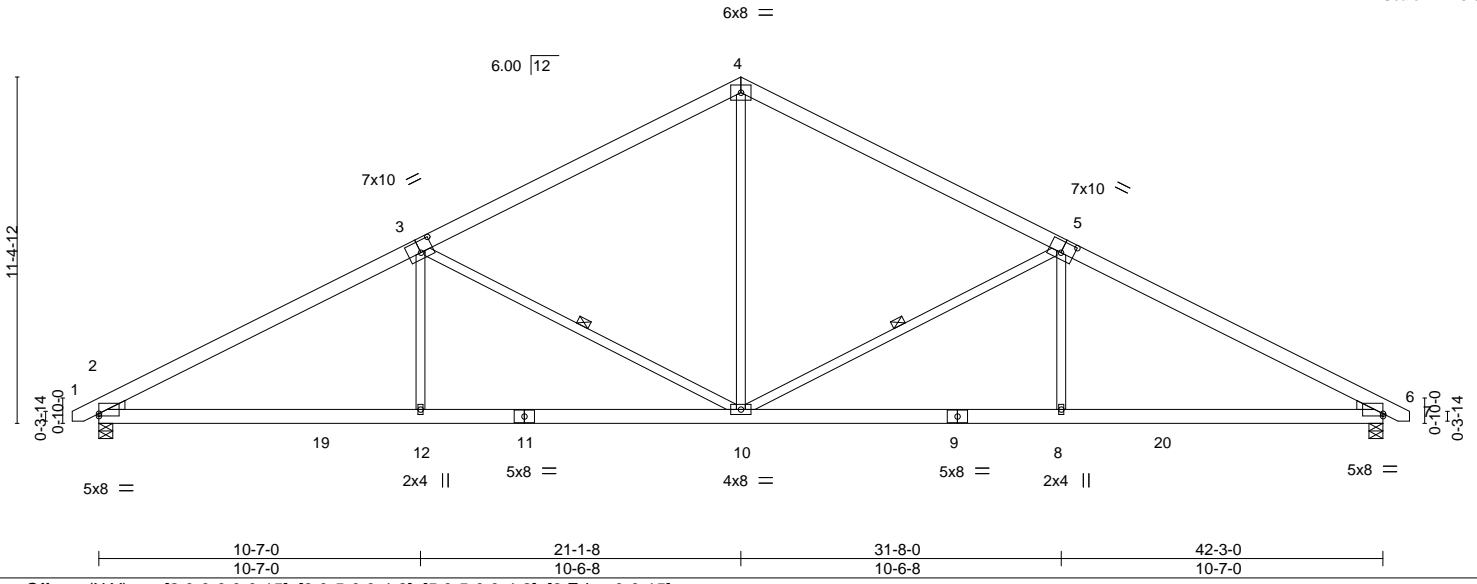
Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:51:44 2019 Page 1

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Scale = 1:75.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	-0.15	8-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.32	8-10	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.11	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.10	10-12	>999		
								Weight: 281 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	WEBS 1 Row at midpt 5-10, 3-10
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=1731/0-5-8, 6=1731/0-5-8  
 Max Horz 2=135(LC 11)  
 Max Uplift 2=-79(LC 12), 6=-79(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2954/941, 3-4=-2041/784, 4-5=-2041/784, 5-6=-2954/940  
 BOT CHORD 2-12=-675/2589, 10-12=-673/2594, 8-10=-674/2542, 6-8=-676/2536  
 WEBS 4-10=-302/1155, 5-10=-1012/459, 5-8=0/432, 3-12=0/432, 3-10=-1011/459

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Bearings are assumed to be: Joint 2 User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

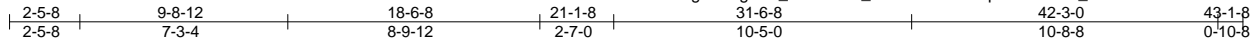
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 812025	Truss A08	Truss Type ROOF SPECIAL	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204598
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:51:45 2019 Page 1

ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-v5TmV8F8pPSDzkA4n\_2VhBWALXYRXXkYiduqSF4zDK7y



5x8 =

Scale = 1:80.6

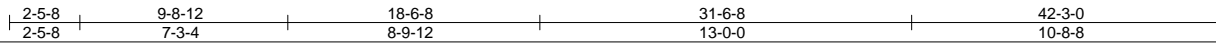
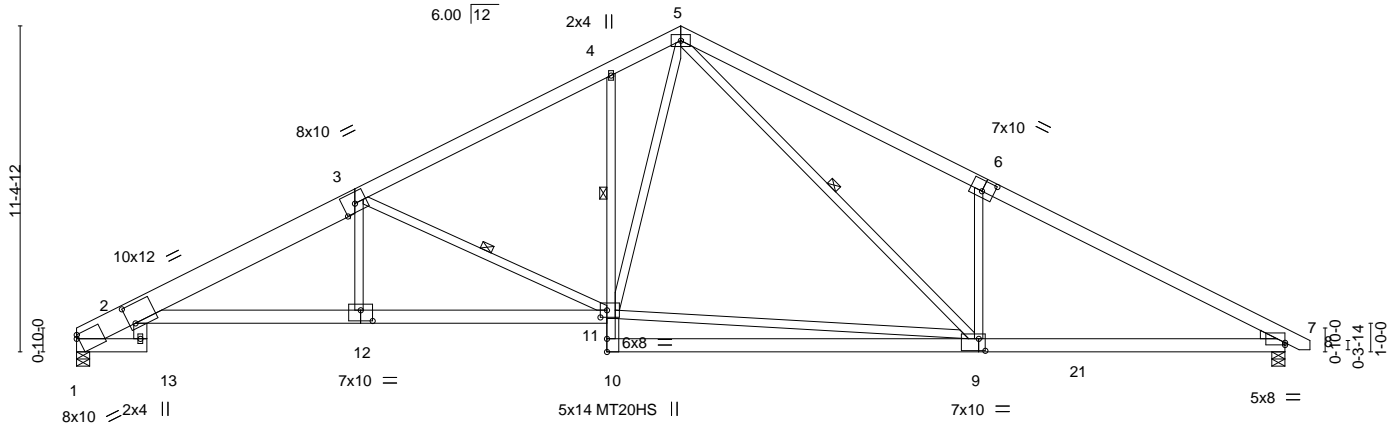


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [2:0-2-8,0-7-14], [3:0-5-0,0-3-8], [6:0-5-0,0-4-8], [7:0-0-0,0-0-15], [9:0-2-12,0-5-0], [11:0-2-12,0-3-0], [12:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.24	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.55	9-10	>930	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.20	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.17	2-12	>999		
								Weight: 329 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2 *Except* 4-10: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 1 Row at midpt 4-11
WEBS 2x4 SP No.3 *Except* 9-11,5-9: 2x4 SP No.2	WEBS 1 Row at midpt 3-11, 5-9
WEDGE Right: 2x4 SP No.3	
REACTIONS. (lb/size) 1=1696/0-5-8, 7=1723/0-5-8 Max Horz 1=-215(LC 17) Max Uplift 1=-291(LC 12), 7=-320(LC 13)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-766/285, 2-3=-3460/1086, 3-4=-2393/863, 4-5=-2217/960, 5-6=-2898/1206, 6-7=-2915/925
BOT CHORD 2-12=-840/3100, 11-12=-835/3112, 4-11=-293/238, 9-10=0/389, 7-9=-663/2483
WEBS 3-12=0/421, 3-11=-1209/505, 9-11=-300/1387, 5-11=-328/1091, 5-9=-505/1095, 6-9=-636/543

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=291, 7=320.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

**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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**TRENCO**  
A MiTek Affiliate

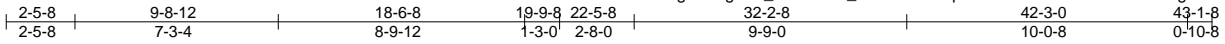
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss A09	Truss Type HIP	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204599
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Builders First Source, Sumter SC

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ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-rUbWwqGOL0ixD2KTvP5zmcCVILeO?gv?5CJZJyzDK7w



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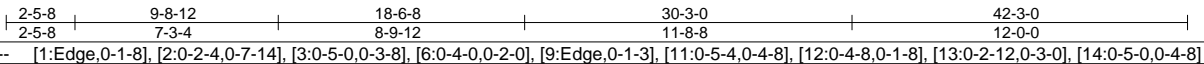
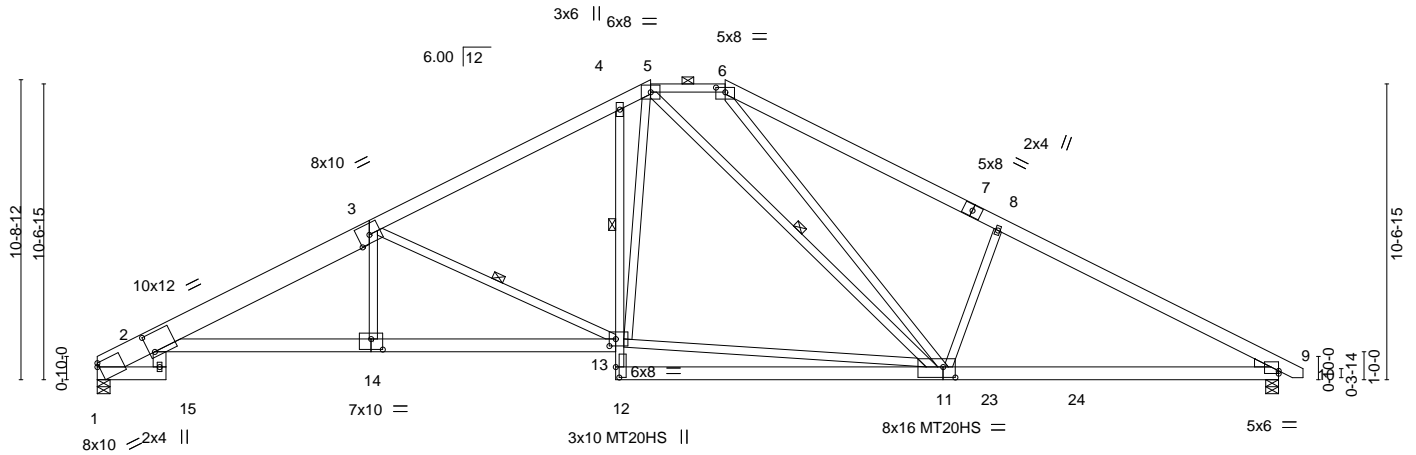


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-2-4,0-7-14], [3:0-5-0,0-3-8], [6:0-4-0,0-2-0], [9:Edge,0-1-3], [11:0-5-4,0-4-8], [12:0-4-8,0-1-8], [13:0-2-12,0-3-0], [14:0-5-0,0-4-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	2-0-0	<b>CSI</b>	<b>DEFL.</b> in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL) -0.18	13-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT) -0.40	11-12	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT) 0.21	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL) 0.17	13-14	>999		Weight: 341 lb FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2 *Except* 5-6: 2x4 SP No.2, 1-3: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-9-9 max.): 5-6.
BOT CHORD 2x6 SP No.2 *Except* 4-12: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 1 Row at midpt 4-13
WEBS 2x4 SP No.3 *Except* 5-11,6-11: 2x4 SP No.2	WEBS 1 Row at midpt 3-13, 5-11
WEDGE Right: 2x4 SP No.3	
<b>REACTIONS.</b> (lb/size) 1=1696/0-5-8, 9=1723/0-5-8 Max Horz 1=-201(LC 17) Max Uplift 1=-281(LC 12), 9=-310(LC 13)	

<b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-766/283, 2-3=-3466/1072, 3-4=-2392/852, 4-5=-2267/994, 5-6=-1754/868, 6-8=-2701/1043, 8-9=-2907/945
BOT CHORD 2-14=-826/3105, 13-14=-825/3108, 4-13=-298/330, 11-12=-28/353, 9-11=-687/2483
WEBS 3-14=0/425, 3-13=-1205/503, 11-13=-280/1517, 5-13=-461/1126, 5-11=-443/148, 6-11=-247/900, 8-11=-554/468

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=281, 9=310.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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**TRENCO**  
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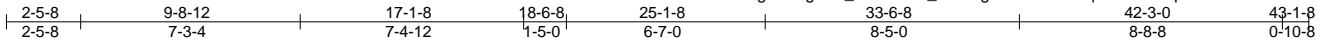
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	137204600
812025	A10	HIP	3	1		

Builders First Source, Sumter SC

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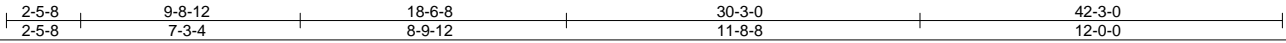
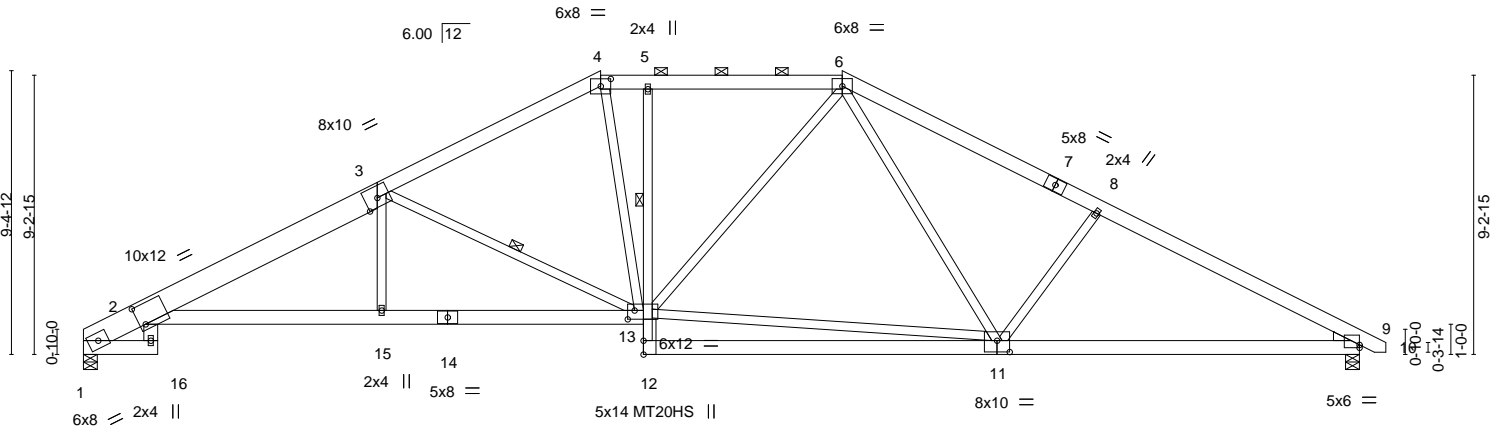


Plate Offsets (X, Y) -- [2:0-2-4,0-7-14], [3:0-5-0,0-3-8], [4:0-4-0,0-2-15], [9:0-0-0,0-1-3], [11:0-5-0,0-4-8], [13:0-2-12,0-3-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.40	Vert(LL) -0.17	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.81	Vert(CT) -0.39	11-12	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES		WB 0.96	Horz(CT) 0.21	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL) 0.16	2-15	>999	240		Weight: 328 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* 1-3: 2x10 SP DSS	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-8-11 max.): 4-6.
BOT CHORD	2x6 SP No.2 *Except* 5-12: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied. Except: 1 Row at midpt 5-13
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 3-13
WEDGE			
Right: 2x4 SP No.3			

**REACTIONS.** (lb/size) 1=1696/0-5-8, 9=1723/0-5-8  
 Max Horz 1=-175(LC 17)  
 Max Uplift 1=-258(LC 12), 9=-288(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-20=-766/279, 2-3=-3432/1029, 3-4=-2425/837, 4-5=-2232/848, 5-6=-2226/850,  
 6-8=-2638/923, 8-9=-2934/945  
 BOT CHORD 2-15=-782/3065, 13-15=-779/3074, 5-13=-268/170, 11-12=-33/359, 9-11=-701/2515  
 WEBS 3-15=0/426, 3-13=-1097/436, 4-13=-179/771, 11-13=-377/1674, 6-13=-90/472,  
 6-11=-150/563, 8-11=-434/381

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=258, 9=288.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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Job 812025	Truss A11	Truss Type GABLE	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204601
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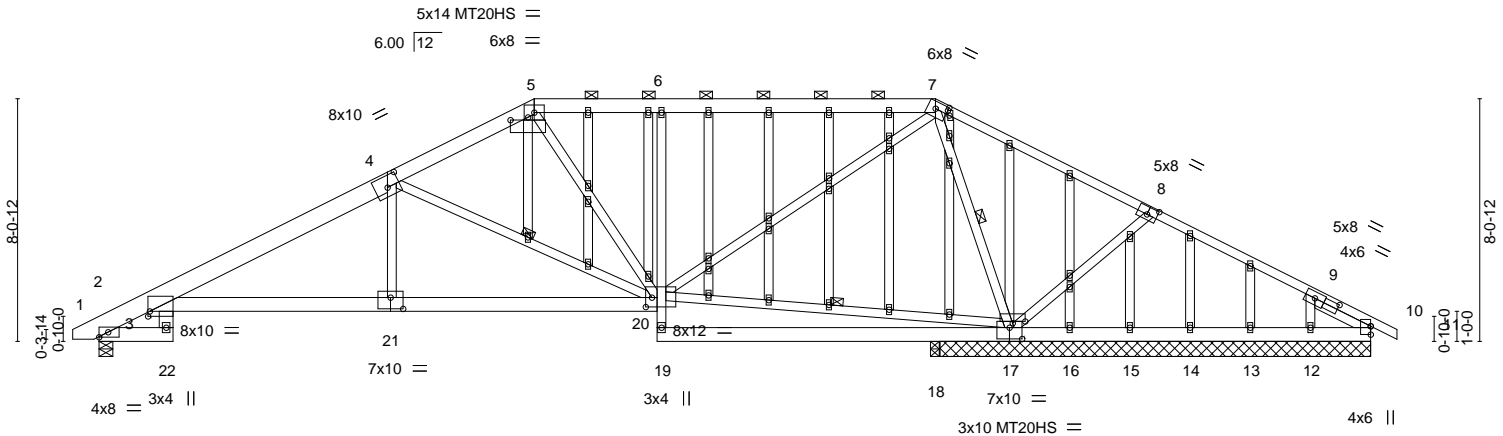
Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:51:52 2019 Page 1

ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-CSOPzXX9ZLEJpDQiyg8TgJKuMxEgtJKEU1K\_AzDK7r

0-10-8	2-5-8	9-8-12	14-5-8	18-6-8	27-9-8	34-10-8	42-3-0	43-1-8
0-10-8	2-5-8	7-3-4	4-8-12	4-1-0	9-3-0	7-1-0	7-4-8	0-10-8

Scale = 1:76.6



2-5-8	9-8-12	18-6-8	27-11-0	30-3-0	42-3-0
2-5-8	7-3-4	8-9-12	9-4-8	2-4-0	12-0-0

Plate Offsets (X,Y)-- [3:0-0-11,0-2-0], [4:0-5-0,0-4-8], [7:0-4-12,0-2-12], [8:0-4-0,0-3-0], [10:1-2-14,0-2-0], [17:0-5-0,0-0-11], [17:0-5-0,0-4-8], [20:0-2-7,0-3-12], [21:0-5-0,0-4-8], [29:0-2-0,0-0-9], [49:0-7-0,0-1-1]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.17	3-21	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.34	3-21	>985	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.17	18	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.19	3-21	>999	240		
									Weight: 405 lb	FT = 20%

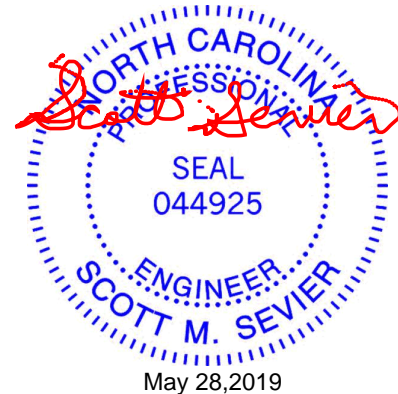
**LUMBER-**  
**TOP CHORD** 2x6 SP No.2 \*Except\*  
7-8,8-11: 2x4 SP No.2, 1-4: 2x8 SP DSS  
**BOT CHORD** 2x6 SP No.2 \*Except\*  
6-19: 2x4 SP No.2  
**WEBS** 2x4 SP No.3  
**OTHERS** 2x4 SP No.3  
**SLIDER** Right 2x4 SP No.3 2-1-2

**BRACING-**  
**TOP CHORD** Structural wood sheathing directly applied, except  
2-0-0 oc purlins (6-0-0 max.): 5-7.  
**BOT CHORD** Rigid ceiling directly applied.  
**WEBS** 1 Row at midpt 4-20, 17-20, 7-17

**REACTIONS.** All bearings 14-3-12 except (jt=length) 2=0-5-8, 18=0-3-8.  
(lb) - Max Horz 2=148(LC 17)  
Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=-184(LC 12), 17=-418(LC 12), 10=-546(LC 23), 12=-132(LC 13), 10=-365(LC 1)  
Max Grav All reactions 250 lb or less at joint(s) 10, 13, 14, 15, 16 except 2=1030(LC 23), 17=1943(LC 1), 12=474(LC 1), 18=445(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 3-52=-568/224, 3-4=-1749/532, 4-5=-806/365, 5-6=-761/400, 6-7=-769/409, 7-8=-210/1147, 8-10=-464/923  
**BOT CHORD** 3-21=-328/1559, 20-21=-325/1564, 6-20=-517/285, 16-17=-795/210, 15-16=-795/210, 14-15=-795/210, 13-14=-795/210, 12-13=-795/210, 10-12=-795/210, 3-22=-62/264  
**WEBS** 4-21=0/391, 4-20=-1027/375, 5-20=-94/265, 17-20=-335/237, 7-20=-381/1425, 7-17=-1850/611, 8-17=-421/344

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - 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.
  - 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 except (jt=lb) 2=1030(LC 23), 17=1943(LC 1), 12=474(LC 1), 18=445(LC 3).



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

Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	I37204601
812025	A11	GABLE	3	1	Job Reference (optional)	

Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:51:52 2019 Page 2  
 ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-CSOPzXKX9ZLEJpDQiyg8TgJKuMxEgtJKEU1K\_AzDK7r

**NOTES-** (14)

- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**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.



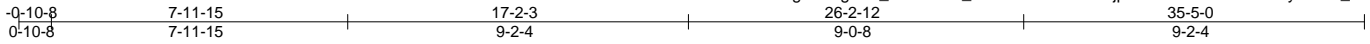
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	137204602
812025	A12	HALF HIP GIRDER	1	2	Job Reference (optional)	

Builders First Source, Sumter SC

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ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-c14YbZMPSUjpAGx?N4Er5lxuDZ1htlyBwSF\_bVzDK7o



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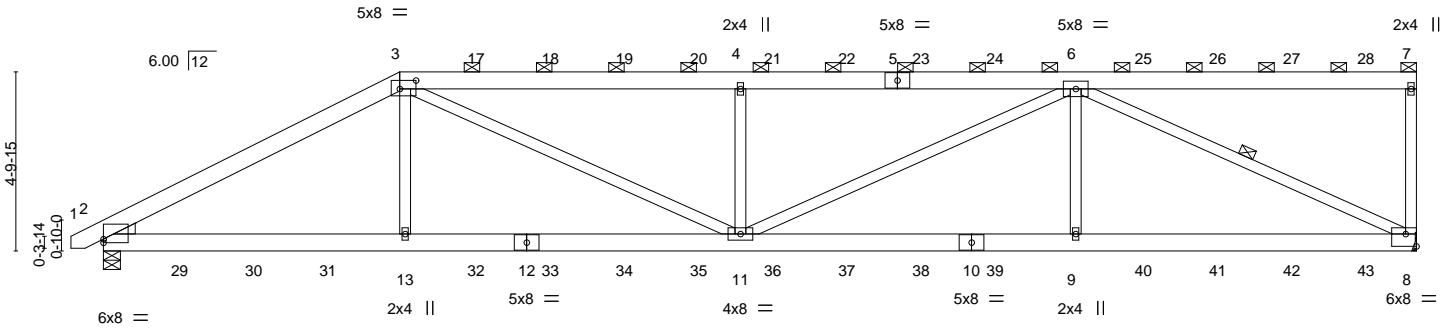


Plate Offsets (X,Y)--	[2:0-0-0,0-1-3], [3:0-5-4,0-2-12], [8:Edge,0-4-0]
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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.11 9-11 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.23 9-11 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.65	Horz(CT) 0.06 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.13 9-11 >999 240		
				Weight: 474 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 6-8

**REACTIONS.** (lb/size) 8=2114/Mechanical, 2=2185/0-5-8  
 Max Horz 2=133(LC 23)  
 Max Uplift 8=-588(LC 5), 2=-466(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3614/889, 3-4=-4462/1236, 4-6=-4462/1236, 7-8=-332/193  
 BOT CHORD 2-13=-819/3124, 11-13=-816/3136, 9-11=-963/3460, 8-9=-963/3460  
 WEBS 3-13=0/528, 3-11=-509/1537, 4-11=-823/507, 6-11=-303/1113, 6-9=0/586, 6-8=-3781/1052

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- 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) 8=588, 2=466.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Continued on page 2

**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 812025	Truss A12	Truss Type HALF HIP GIRDER	Qty 1	Ply 2	H&H/Jessamine/ Job Reference (optional)	137204602
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:51:55 2019 Page 2  
ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-c14YbZMPSUjpAGx?N4Er5xuDZ1htlyBwSF\_bVzDK7o

**NOTES-**

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 99 lb up at 7-11-15, 111 lb down and 99 lb up at 10-0-11, 111 lb down and 99 lb up at 12-0-11, 111 lb down and 99 lb up at 14-0-11, 111 lb down and 99 lb up at 16-0-11, 111 lb down and 99 lb up at 18-0-11, 111 lb down and 99 lb up at 20-0-11, 111 lb down and 99 lb up at 22-0-11, 111 lb down and 99 lb up at 24-0-11, 111 lb down and 99 lb up at 26-0-11, 111 lb down and 99 lb up at 28-0-11, 111 lb down and 99 lb up at 30-0-11, and 111 lb down and 99 lb up at 32-0-11, and 111 lb down and 99 lb up at 34-0-11 on top chord, and 140 lb down and 46 lb up at 2-0-11, 70 lb down and 27 lb up at 4-0-11, 106 lb down and 62 lb up at 6-0-11, 41 lb down at 8-0-11, 41 lb down at 10-0-11, 41 lb down at 12-0-11, 41 lb down at 14-0-11, 41 lb down at 16-0-11, 41 lb down at 18-0-11, 41 lb down at 20-0-11, 41 lb down at 22-0-11, 41 lb down at 24-0-11, 41 lb down at 26-0-11, 41 lb down at 28-0-11, 41 lb down at 30-0-11, and 41 lb down at 32-0-11, and 41 lb down at 34-0-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 8-14=-20

Concentrated Loads (lb)

Vert: 3=-53(F) 13=-27(F) 9=-27(F) 6=-53(F) 17=-53(F) 18=-53(F) 19=-53(F) 20=-53(F) 21=-53(F) 22=-53(F) 23=-53(F) 24=-53(F) 25=-53(F) 26=-53(F) 27=-53(F) 28=-53(F) 29=-140(F) 30=-70(F) 31=-106(F) 32=-27(F) 33=-27(F) 34=-27(F) 35=-27(F) 36=-27(F) 37=-27(F) 38=-27(F) 39=-27(F) 40=-27(F) 41=-27(F) 42=-27(F) 43=-27(F)

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

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818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss A13	Truss Type HALF HIP	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204603
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:51:56 2019 Page 1  
ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-4DewpvN2DnrfoQWBxol4dWT1ZzKicg3K96?X7xzDK7n



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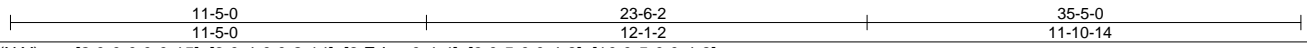
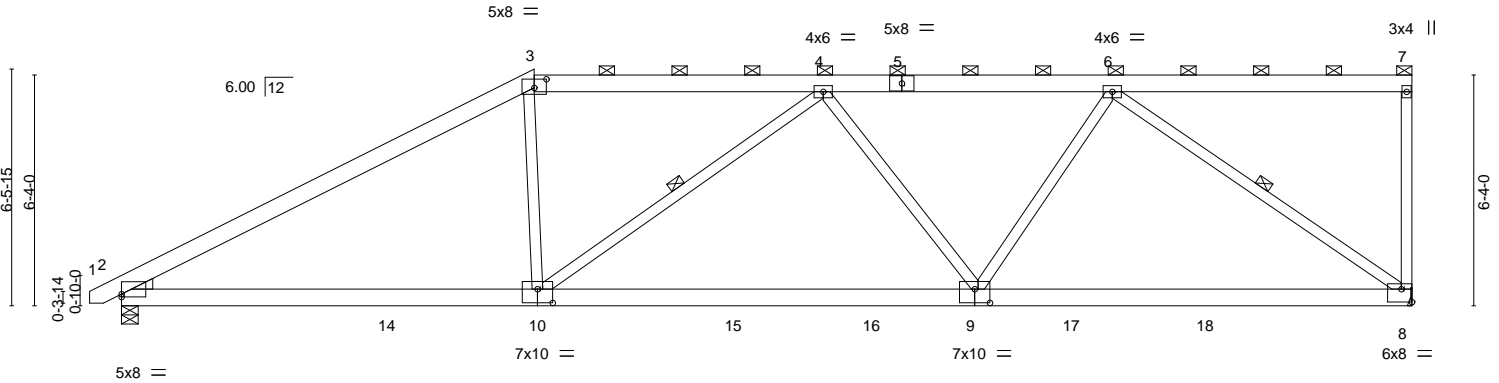


Plate Offsets (X, Y)-- [2:0-0-0,0-0-15], [3:0-4-0,0-2-14], [8:Edge,0-4-4], [9:0-5-0,0-4-8], [10:0-5-0,0-4-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) -0.15 8-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.32 8-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.07 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.08 10-13 >999 240	Weight: 237 lb	FT = 20%

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

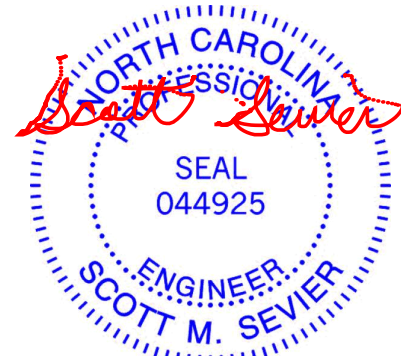
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-2 max.): 3-7.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 4-10, 6-8

**REACTIONS.** (lb/size) 8=1410/Mechanical, 2=1452/0-5-8  
Max Horz 2=180(LC 12)  
Max Uplift 8=-117(LC 9), 2=-32(LC 9)  
Max Grav 8=1415(LC 2), 2=1452(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2341/611, 3-4=-1995/650, 4-6=-1987/521  
BOT CHORD 2-10=-650/1986, 9-10=-675/2169, 8-9=-489/1556  
WEBS 3-10=0/580, 4-10=-423/140, 4-9=-387/266, 6-9=-60/797, 6-8=-1883/602

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (it=lb) 8=117.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

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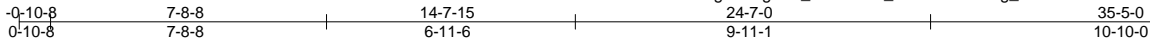
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss A14	Truss Type HALF HIP	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204604
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Builders First Source, Sumter SC

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ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-YPCiOFog\_5zWPa5OUVGJAj0BxNgCL8rTOmk5gNzDK7m



Scale: 3/16"=1'

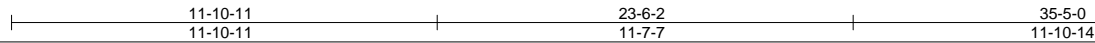
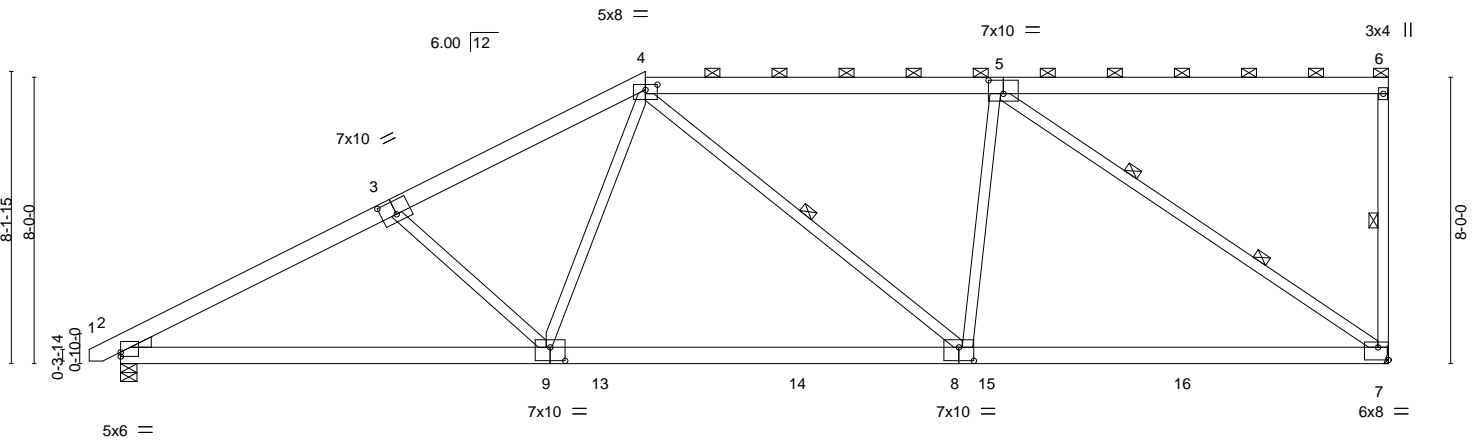


Plate Offsets (X, Y)-- [2:0-0-0,0-1-7], [3:0-5-0,0-4-8], [4:0-4-0,0-1-12], [5:0-5-0,0-4-8], [7:Edge,0-4-4], [8:0-5-0,0-4-8], [9:0-5-0,0-4-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	-0.17	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.32	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.06	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07	8-9	>999		
								Weight: 250 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 5-7: 2x4 SP No.1  
 WEDGE  
 Left: 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-1-5 max.): 4-6.  
 BOT CHORD Rigid ceiling directly applied.  
 WEBS 1 Row at midpt 6-7, 4-8  
 2 Rows at 1/3 pts 5-7

**REACTIONS.** (lb/size) 7=1410/Mechanical, 2=1452/0-5-8  
 Max Horz 2=231(LC 12)  
 Max Uplift 7=-114(LC 9), 2=-37(LC 12)  
 Max Grav 7=1435(LC 2), 2=1452(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2389/688, 3-4=-2097/612, 4-5=-1628/476, 6-7=-266/146  
 BOT CHORD 2-9=-850/2039, 8-9=-584/1645, 7-8=-485/1548  
 WEBS 3-9=-355/325, 4-9=-90/570, 5-8=0/532, 5-7=-1862/588

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=114.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

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818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss A15	Truss Type HIP	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204605
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:51:58 2019 Page 1

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Scale: 3/16"=1'

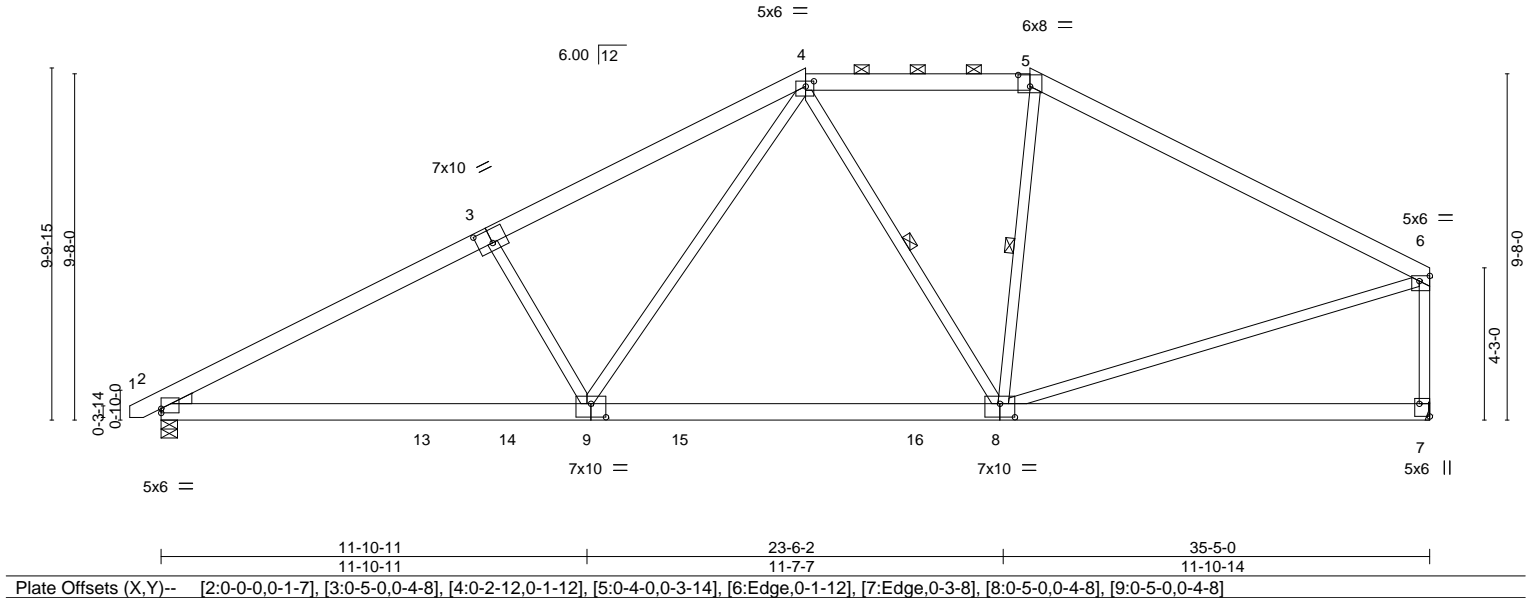


Plate Offsets (X,Y)--	[2:0-0-0,0-1-7], [3:0-5-0,0-4-8], [4:0-2-12,0-1-12], [5:0-4-0,0-3-14], [6:Edge,0-1-12], [7:Edge,0-3-8], [8:0-5-0,0-4-8], [9:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.22	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.33	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.04	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07	8-9	>999	Weight: 253 lb	FT = 20%

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

**REACTIONS.** (lb/size) 2=1452/0-5-8, 7=1410/Mechanical  
 Max Horz 2=178(LC 12)  
 Max Uplift 2=65(LC 12), 7=20(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2366/757, 3-4=-2143/777, 4-5=-1260/564, 5-6=-1529/518, 6-7=-1301/495  
 BOT CHORD 2-9=-714/2025, 8-9=-362/1358  
 WEBS 3-9=-484/415, 4-9=-266/901, 4-8=-329/126, 5-8=-83/280, 6-8=-280/1224

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
  - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



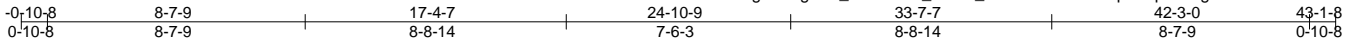
May 28, 2019

Job 812025	Truss A16	Truss Type HIP	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204606
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:00 2019 Page 1

ID:AmMffg3tW0ghNx\_OkVH7Bz\_9Ds-z\_tQeGQYH0L5G2qzAdq0oMegJae6YZow4kzIHizDK7j



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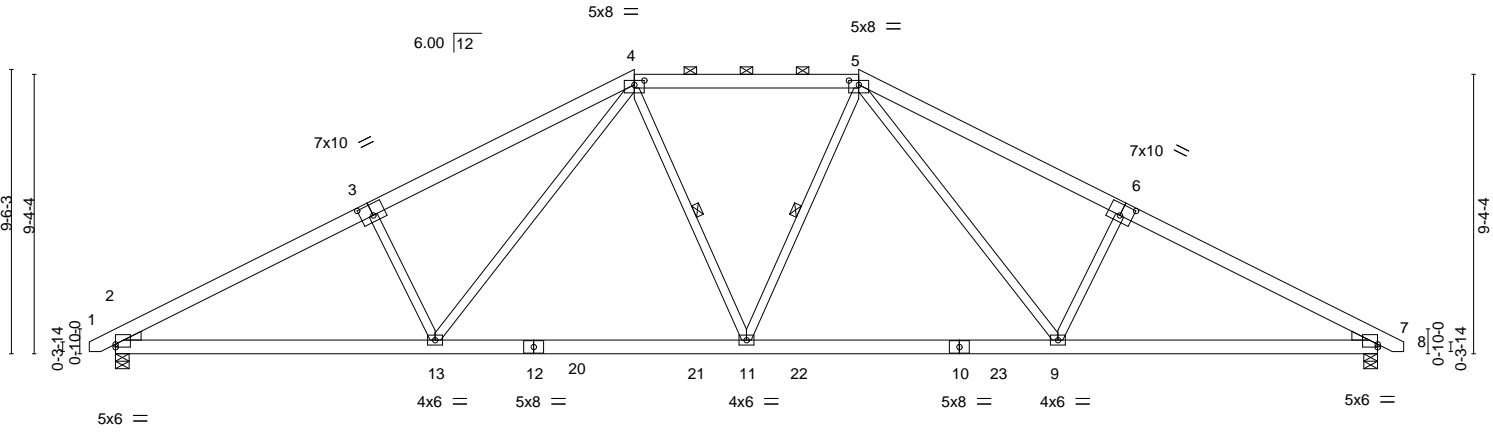


Plate Offsets (X, Y)--	[2:0-0-0,0-1-3], [3:0-5-0,0-4-8], [4:0-4-0,0-1-12], [5:0-4-0,0-1-12], [6:0-5-0,0-4-8], [7:0-0-0,0-1-3]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-1-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.22	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.39	9-11	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.68	Horz(CT)	0.11	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.11	11-13	>999	Weight: 288 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-14 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-8-1 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 8-6-0 oc bracing.
WEDGE	WEBS 1 Row at midpt 4-11, 5-11
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=1803/0-5-8, 7=1803/0-5-8  
 Max Horz 2=-115(LC 10)  
 Max Uplift 2=-63(LC 12), 7=-63(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3094/990, 3-4=-2900/1047, 4-5=-2188/827, 5-6=-2900/1047, 6-7=-3094/990  
 BOT CHORD 2-13=-739/2661, 11-13=-397/2086, 9-11=-397/2086, 7-9=-740/2661  
 WEBS 3-13=-462/409, 4-13=-282/755, 4-11=-44/392, 5-11=-44/392, 5-9=-282/755, 6-9=-462/409

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

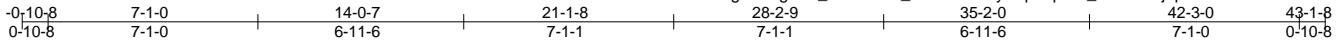
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 812025	Truss A17	Truss Type HIP	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204607
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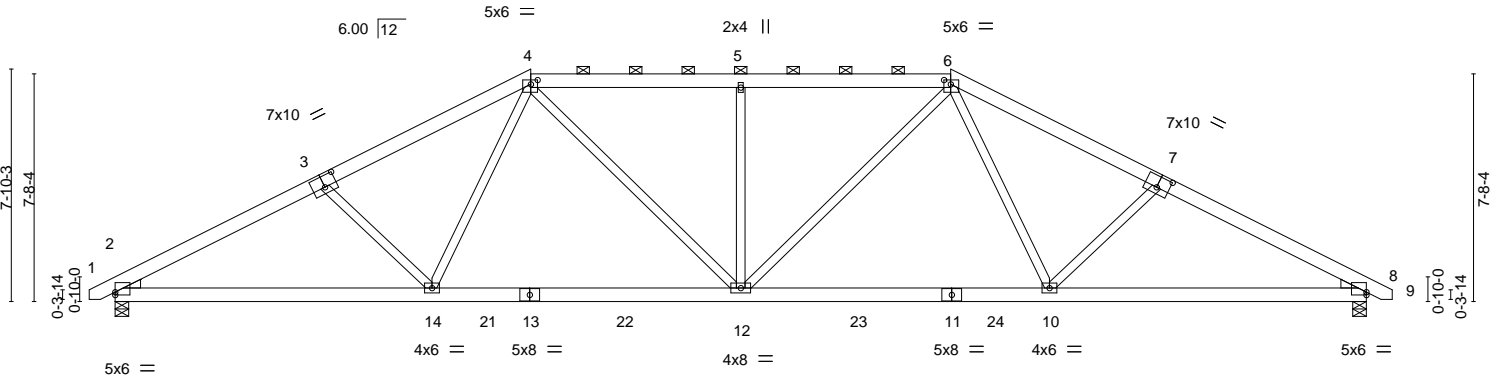
Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:02 2019 Page 1

ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-vN?B3ySopdbpWL\_LH2sUtnj5pOO10WbCX2SsLbzDK7h



Scale = 1:77.8



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 0.43	Vert(LL)	-0.20	10-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.37	10-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.10	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.12	12-14	>999	Weight: 289 lb	FT = 20%

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

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

**REACTIONS.** (lb/size) 2=1731/0-5-8, 8=1731/0-5-8  
 Max Horz 2=-90(LC 10)  
 Max Uplift 2=-41(LC 12), 8=-41(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2987/942, 3-4=-2718/889, 4-5=-2529/894, 5-6=-2529/894, 6-7=-2718/889, 7-8=-2987/942  
 BOT CHORD 2-14=-715/2568, 12-14=-476/2188, 10-12=-476/2188, 8-10=-717/2568  
 WEBS 3-14=-303/297, 4-14=-82/503, 4-12=-92/628, 5-12=-479/248, 6-12=-92/628, 6-10=-82/503, 7-10=-303/297

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



May 28, 2019

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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

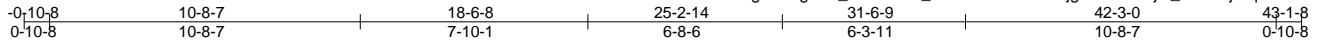
818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss A18	Truss Type HIP	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204608
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Builders First Source, Sumter SC

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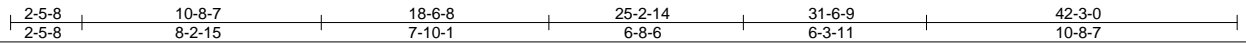
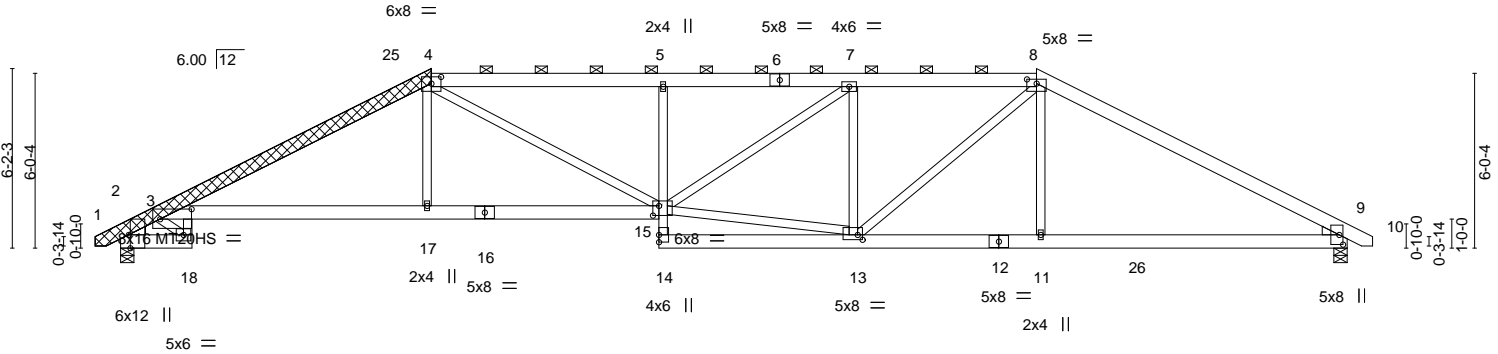


Plate Offsets (X, Y)-- [2:0-0-13,0-1-10], [2:0-1-10,0-7-15], [2:0-5-8,Edge], [3:1-1-0,0-4-2], [4:0-4-0,0-2-12], [8:0-4-0,0-1-12], [9:0-1-10,0-7-15], [9:0-0-13,0-1-10], [9:0-4-0,0-1-9], [13:0-2-0,0-2-0], [15:0-2-8,0-4-0]

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 0.90	Vert(LL)	-0.29	3-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.59	3-17	>864	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.32	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.24	3-17	>999		
								Weight: 351 lb	FT = 20%

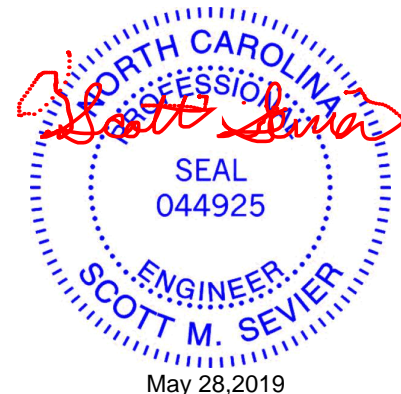
**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 3-18,5-14: 2x4 SP No.2, 3-16: 2x6 SP DSS  
 WEBS 2x4 SP No.3 \*Except\*  
 13-15: 2x4 SP No.2  
 OTHERS 2x6 SP No.2  
 LBR SCAB 1-4 2x6 SP No.2 both sides  
 WEDGE  
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except  
 2-0-0 oc purlins (3-5-7 max.): 4-8.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 2=1744/0-5-8, 9=1732/0-5-8  
 Max Horz 2=-69(LC 10)  
 Max Uplift 2=-27(LC 9), 9=-35(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-20=-744/269, 3-4=-3463/967, 4-5=-3866/1195, 5-7=-3838/1190, 7-8=-3105/997,  
 8-9=-2897/849  
 BOT CHORD 3-18=-75/328, 3-17=-703/3108, 15-17=-705/3098, 5-15=-461/254, 13-14=-129/463,  
 11-13=-584/2470, 9-11=-582/2475  
 WEBS 4-17=0/485, 4-15=-251/1046, 13-15=-609/2689, 7-15=-229/892, 7-13=-944/319,  
 8-13=-192/1004, 8-11=0/341

- NOTES-**
- Attached 13-1-1 scab 1 to 4, both face(s) 2x6 SP No.2 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-4 from end at joint 1, nail 2 row(s) at 4" o.c. for 3-10-0.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

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818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	137204609
812025	A19	ROOF SPECIAL	1	1		

Builders First Source, Sumter SC

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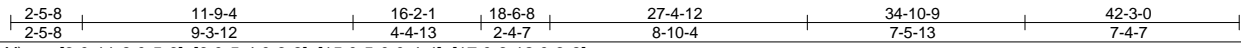
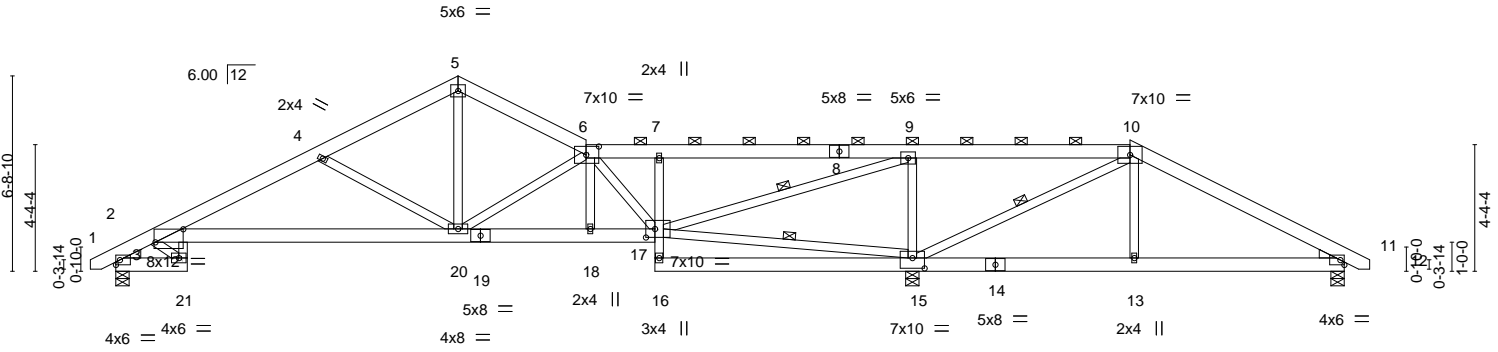


Plate Offsets (X, Y)-- [3:0-11-8,0-5-6], [6:0-5-4,0-3-8], [15:0-5-0,0-4-4], [17:0-3-12,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.18	3-20	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.43	3-20	>770		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.19	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.15	3-20	>999		
								Weight: 300 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.2 \*Except\*  
1-5: 2x6 SP No.1  
BOT CHORD 2x6 SP No.2 \*Except\*  
7-16: 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
3-21,9-17: 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except  
2-0-0 oc purlins (6-0-0 max.): 6-10.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 10-15, 15-17, 9-17

**REACTIONS.** (lb/size) 2=910/0-5-8, 15=2401/0-5-8, 11=165/0-5-8  
Max Horz 2=-77(LC 10)  
Max Uplift 2=-34(LC 12), 15=-97(LC 13), 11=-67(LC 13)  
Max Grav 2=910(LC 1), 15=2401(LC 1), 11=267(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-23=-346/162, 3-4=-1644/570, 4-5=-1140/409, 5-6=-1099/404, 6-7=-819/359,  
7-9=-830/370, 9-10=-327/1579, 10-11=-62/384  
BOT CHORD 3-20=-398/1507, 18-20=-248/1113, 17-18=-245/1108, 7-17=-394/224, 13-15=-314/142,  
11-13=-309/144  
WEBS 4-20=-653/337, 5-20=-186/719, 6-20=-348/177, 6-17=-501/127, 9-15=-1313/514,  
10-15=-1513/437, 10-13=0/291, 15-17=-1417/405, 9-17=-707/2441

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 11.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

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818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	137204610
812025	A20	ROOF SPECIAL GIRDER	1	1		
Builders First Source, Sumter SC						Job Reference (optional)

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:07 2019 Page 1  
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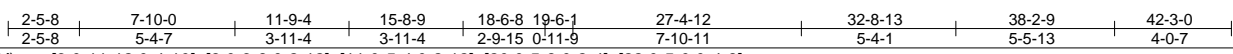
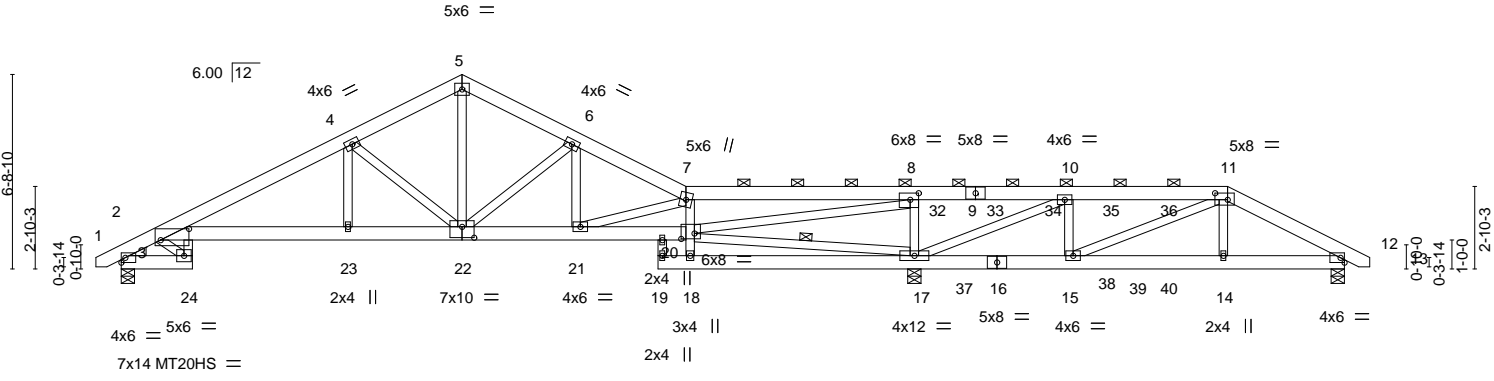


Plate Offsets (X,Y)-- [3:0-11-12,0-4-10], [8:0-3-8,0-2-12], [11:0-5-4,0-2-12], [20:0-5-8,0-2-4], [22:0-5-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.96	Vert(LL)	-0.19	19	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.39	19	>856	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.92	Horz(CT)	0.18	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.14	19	>999		
								Weight: 303 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-5: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-11.
BOT CHORD 2x6 SP No.2 *Except* 3-24,7-18,19-25: 2x4 SP No.2, 3-22: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-24,17-18,15-17. 10-0-0 oc bracing: 18-20
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 17-20
WEDGE Left: 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=931/0-5-8, 17=2378/0-5-8, 12=185/0-5-8  
 Max Horz 2=77(LC 7)  
 Max Uplift 2=-41(LC 27), 17=-265(LC 9), 12=-141(LC 4)  
 Max Grav 2=931(LC 1), 17=2378(LC 1), 12=251(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-27=-382/81, 3-4=-1711/89, 4-5=-1111/85, 5-6=-1081/85, 6-7=-1390/94,  
 7-8=-1230/185, 8-10=-31/2375, 10-11=-344/1038, 11-12=-374/367  
 BOT CHORD 3-23=-59/1528, 22-23=-59/1530, 21-22=0/1223, 20-21=-98/1277, 7-20=-834/102,  
 15-17=-1019/388, 14-15=-284/352, 12-14=-289/347  
 WEBS 4-23=0/344, 4-22=-799/121, 5-22=-30/769, 17-20=-2258/45, 8-20=-126/3562,  
 8-17=-1172/184, 10-17=-1613/314, 10-15=0/453, 11-15=-1014/67, 6-22=-437/105

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 17=265, 12=141.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 62 lb down and 44 lb up at 28-1-13, 62 lb down and 44 lb up at 30-1-13, 62 lb down and 44 lb up at 32-1-13, 62 lb down and 44 lb up at 34-1-13, and 62 lb down and 44 lb up at 36-1-13, and 93 lb down and 89 lb up at 38-2-9 on top chord, and 17 lb down and 18 lb up at 28-1-13, 17 lb down and 18 lb up at 30-1-13, 17 lb down and 18 lb up at 32-1-13, 17 lb down and 18 lb up at 34-1-13, and 17 lb down and 18 lb up at 36-1-13, and 28 lb down and 18 lb up at 38-1-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- On the CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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

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**ENGINEERING BY**  
**TRENCO**  
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818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss A20	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	H&H/Jessamine/  Job Reference (optional)	I37204610
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:08 2019 Page 2  
ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-kXMSK?WZOTMyEGRVeJzu72z\_zoOqQ6\_5wzvAZEzDK7b

**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, 5-7=-60, 7-11=-60, 11-13=-60, 24-26=-20, 3-20=-20, 18-19=-20, 18-29=-20

Concentrated Loads (lb)

Vert: 16=1(B) 14=1(B) 37=1(B) 38=1(B) 39=1(B) 40=1(B)

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818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss A21	Truss Type HALF HIP GIRDER	Qty 2	Ply 2	H&H/Jessamine/ Job Reference (optional)	137204611
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Builders First Source, Sumter SC

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ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-862by1ZShOkX5kA4JRWbkgbgH0V5dZoXcx7q9ZzDK7Y



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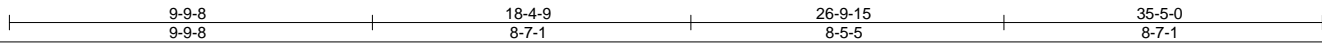
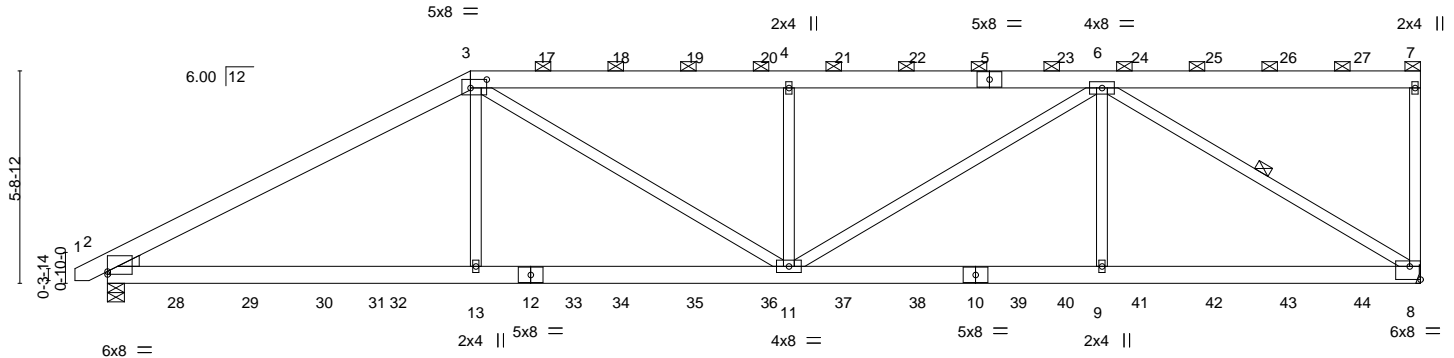


Plate Offsets (X,Y)-- [2:0-0-0,0-0-15], [3:0-5-4,0-2-12], [8:Edge,0-4-4]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	0.13	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.16	9-11	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.53	Horz(CT)	0.05	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 485 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 6-8

**REACTIONS.** (lb/size) 8=2067/Mechanical, 2=2159/0-5-8  
 Max Horz 2=161(LC 23)  
 Max Uplift 8=-1029(LC 5), 2=-749(LC 8)  
 Max Grav 8=2146(LC 32), 2=2159(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3513/1443, 3-4=-3753/1776, 4-6=-3753/1776, 7-8=-291/203  
 BOT CHORD 2-13=-1315/3023, 11-13=-1316/3038, 9-11=-1343/2796, 8-9=-1343/2796  
 WEBS 3-13=-49/600, 3-11=-598/879, 4-11=-749/567, 6-11=-511/1128, 6-9=0/547, 6-8=-3256/1563

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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, 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) 8=1029, 2=749.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

Continued on page 2

**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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Job 812025	Truss A21	Truss Type HALF HIP GIRDER	Qty 2	Ply <b>2</b>	H&H/Jessamine/ Job Reference (optional)	I37204611
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:11 2019 Page 2  
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**NOTES-**

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 118 lb up at 9-9-8, 118 lb down and 118 lb up at 11-10-4, 118 lb down and 118 lb up at 13-10-4, 118 lb down and 118 lb up at 15-10-4, 118 lb down and 118 lb up at 17-10-4, 118 lb down and 118 lb up at 19-10-4, 118 lb down and 118 lb up at 21-10-4, 118 lb down and 118 lb up at 23-10-4, 118 lb down and 118 lb up at 25-10-4, 118 lb down and 118 lb up at 27-10-4, 118 lb down and 118 lb up at 29-10-4, and 118 lb down and 118 lb up at 31-10-4, and 118 lb down and 118 lb up at 33-10-4 on top chord, and 145 lb down and 40 lb up at 1-10-4, 54 lb down and 22 lb up at 3-10-4, 82 lb down and 50 lb up at 5-10-4, 117 lb down and 91 lb up at 7-10-4, 47 lb down and 31 lb up at 9-10-4, 47 lb down and 31 lb up at 11-10-4, 47 lb down and 31 lb up at 13-10-4, 47 lb down and 31 lb up at 15-10-4, 47 lb down and 31 lb up at 17-10-4, 47 lb down and 31 lb up at 19-10-4, 47 lb down and 31 lb up at 21-10-4, 47 lb down and 31 lb up at 23-10-4, 47 lb down and 31 lb up at 25-10-4, 47 lb down and 31 lb up at 27-10-4, 47 lb down and 31 lb up at 29-10-4, and 47 lb down and 31 lb up at 31-10-4, and 47 lb down and 31 lb up at 33-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 8-14=-20

Concentrated Loads (lb)

Vert: 3=-48(F) 5=-48(F) 13=-27(F) 17=-48(F) 18=-48(F) 19=-48(F) 20=-48(F) 21=-48(F) 22=-48(F) 23=-48(F) 24=-48(F) 25=-48(F) 26=-48(F) 27=-48(F) 28=-145(F) 29=-52(F) 30=-82(F) 32=-107(F) 33=-27(F) 34=-27(F) 35=-27(F) 36=-27(F) 37=-27(F) 38=-27(F) 39=-27(F) 40=-27(F) 41=-27(F) 42=-27(F) 43=-27(F) 44=-27(F)

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

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818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss A22	Truss Type HALF HIP	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204612
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:12 2019 Page 1  
ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-clczANZ4SisOjukGt91qHu8kUPnXMwbrbtOI0zDK7X



Scale: 3/16"=1'

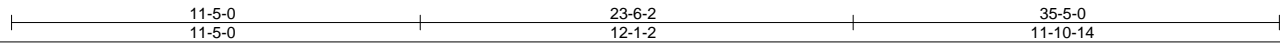
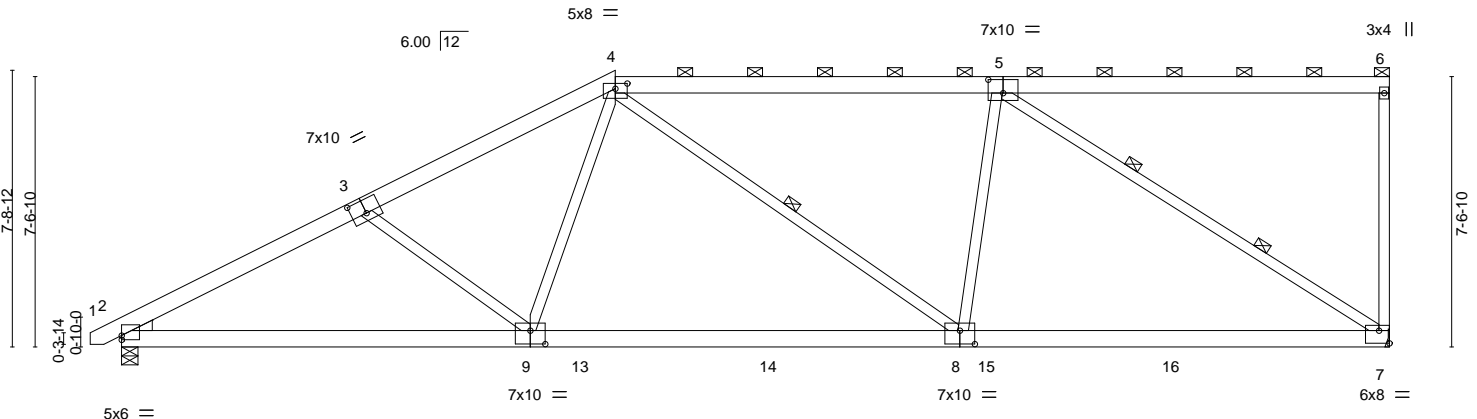


Plate Offsets (X, Y)-- [2:0-0-0,0-1-7], [3:0-5-0,0-4-8], [4:0-4-0,0-1-12], [5:0-5-0,0-4-8], [7:Edge,0-4-4], [8:0-5-0,0-4-8], [9:0-5-0,0-4-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.18	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.32	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.07	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08	8-9	>999	Weight: 248 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-10-14 max.): 4-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-7: 2x4 SP No.1	WEBS 1 Row at midpt 4-8 2 Rows at 1/3 pts 5-7
WEDGE Left: 2x4 SP No.3	

**REACTIONS.** (lb/size) 7=1410/Mechanical, 2=1452/0-5-8  
Max Horz 2=218(LC 12)  
Max Uplift 7=-115(LC 9), 2=-34(LC 12)  
Max Grav 7=1420(LC 2), 2=1452(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2418/704, 3-4=-2134/613, 4-5=-1718/498, 6-7=-263/144  
BOT CHORD 2-9=-854/2068, 8-9=-603/1708, 7-8=-510/1640  
WEBS 3-9=-305/301, 4-9=-47/542, 5-8=0/527, 5-7=-1933/606

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=115.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

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818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss A23	Truss Type HALF HIP	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204613
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:13 2019 Page 1

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Scale: 3/16"=1'

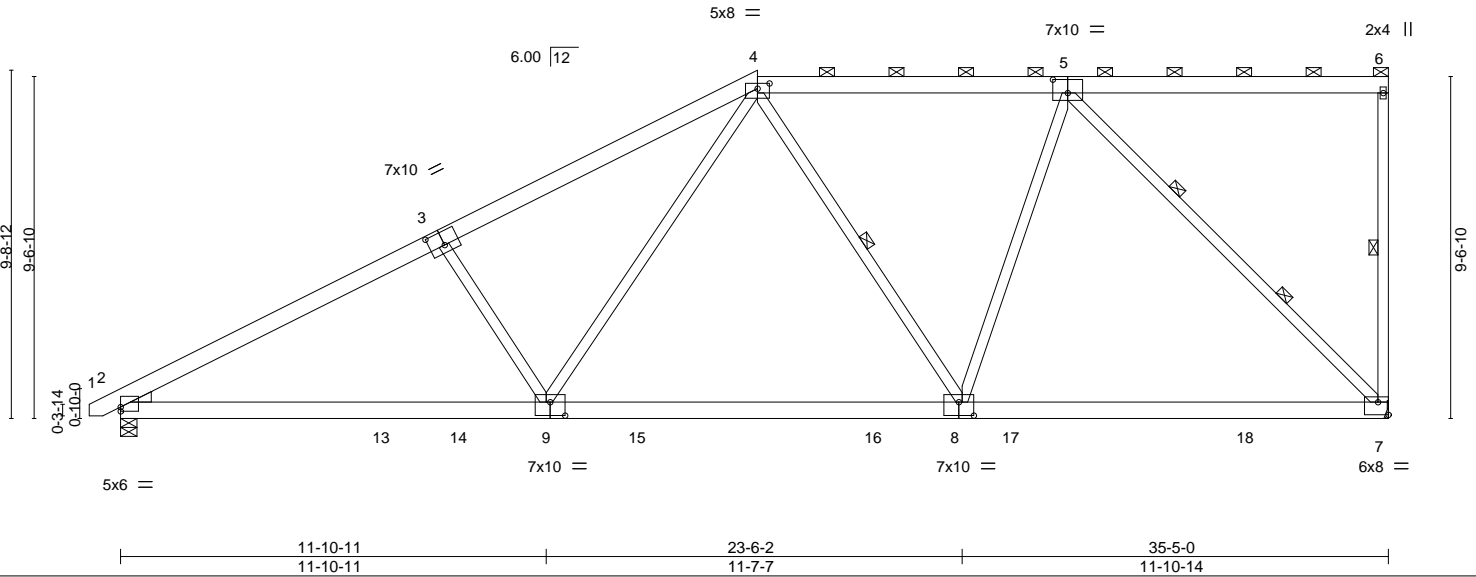


Plate Offsets (X,Y)--	[2:0-0-0,0-1-7], [3:0-5-0,0-4-8], [4:0-4-0,0-1-12], [5:0-5-0,0-4-8], [7:Edge,0-4-4], [8:0-5-0,0-4-8], [9:0-5-0,0-4-8]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.20	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.37	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.06	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07	8-9	>999	Weight: 257 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-11-3 max.): 4-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-7: 2x4 SP No.2	WEBS 1 Row at midpt 6-7, 4-8 2 Rows at 1/3 pts 5-7
WEDGE Left: 2x4 SP No.3	

<b>REACTIONS.</b> (lb/size)	7=1410/Mechanical, 2=1452/0-5-8
Max Horz	2=280(LC 12)
Max Uplift	7=-109(LC 9), 2=-45(LC 12)
Max Grav	7=1506(LC 2), 2=1457(LC 2)

<b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2435/648, 3-4=-2203/652, 4-5=-1374/400
BOT CHORD 2-9=-878/2088, 8-9=-530/1464, 7-8=-379/1149
WEBS 3-9=-465/406, 4-9=-246/829, 4-8=-270/251, 5-8=-61/729, 5-7=-1624/543

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=109.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

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**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate

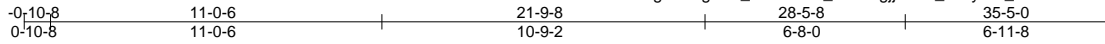
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss A24	Truss Type HALF HIP	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204614
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:14 2019 Page 1

ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-Ygjia3bK\_J66yBuf\_a4IMJD6BDS9qpZ\_lvMUmuzDK7V



7x14 MT20HS =

Scale = 1:76.7

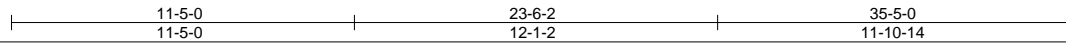
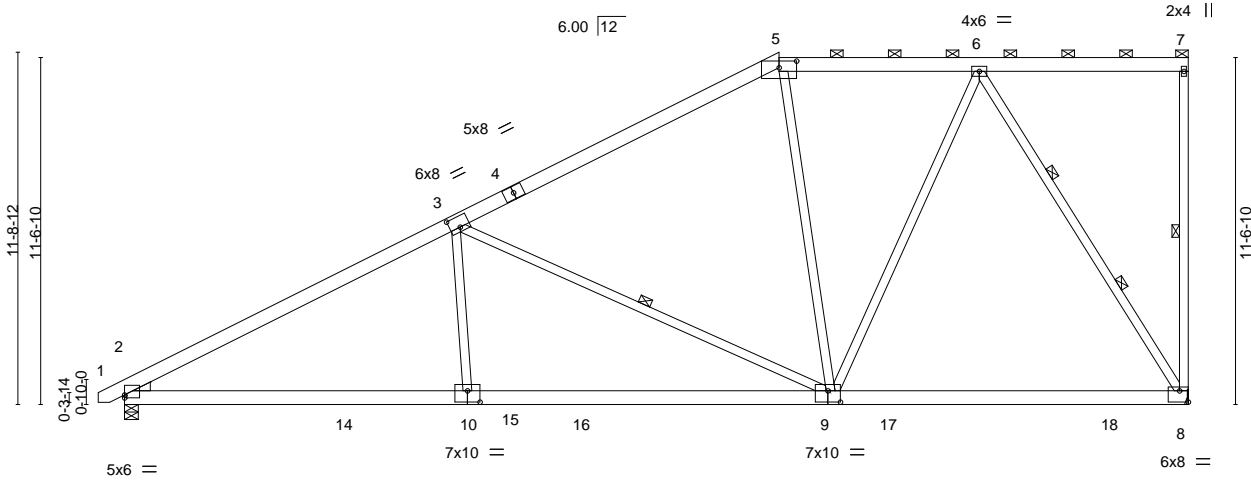


Plate Offsets (X,Y)-- [2:0-0-0,0-1-3], [3:0-4-0,0-4-4], [5:0-7-0,0-2-10], [8:Edge,0-4-8], [9:0-5-0,0-4-8], [10:0-5-0,0-4-8]

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 0.59	Vert(LL)	-0.32	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.48	8-9	>884	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.06	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07	10-13	>999		
								Weight: 271 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 3-9,6-8: 2x4 SP No.2

WEDGE  
 Left: 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.  
 BOT CHORD Rigid ceiling directly applied.  
 WEBS 1 Row at midpt 7-8, 3-9  
 2 Rows at 1/3 pts 6-8

**REACTIONS.** (lb/size) 8=1410/Mechanical, 2=1452/0-5-8  
 Max Horz 2=341(LC 12)  
 Max Uplift 8=103(LC 9), 2=-47(LC 12)  
 Max Grav 8=1488(LC 2), 2=1461(LC 2)

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

TOP CHORD 2-3=-2395/560, 3-5=-1316/343, 5-6=-1081/375  
 BOT CHORD 2-10=-874/2039, 9-10=-865/2067, 8-9=-275/720  
 WEBS 3-10=0/457, 3-9=-1155/519, 6-9=-236/889, 6-8=-1350/527

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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) 2 except (jt=lb) 8=103.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

**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.



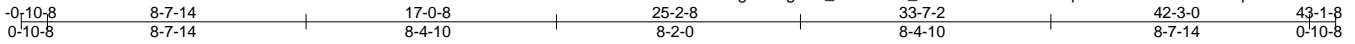
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	137204615
812025	A25	HIP	2	1		

Builders First Source, Sumter SC

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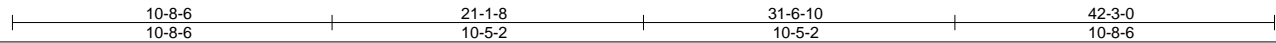
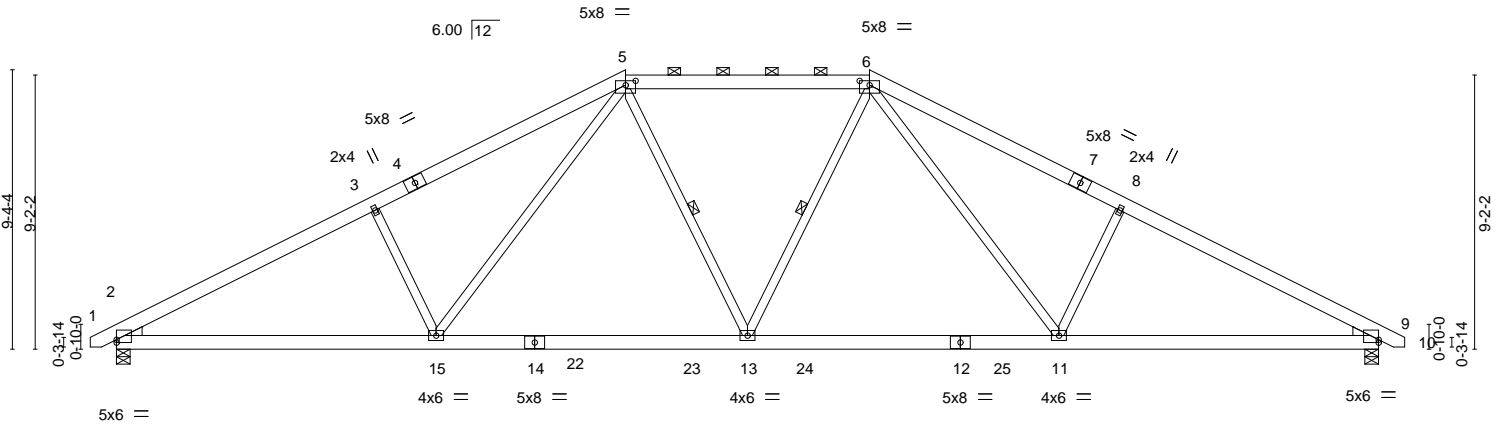


Plate Offsets (X,Y)-- [2:0-0-0,0-1-3], [5:0-4-0,0-1-12], [6:0-4-0,0-1-12], [9:Edge,0-1-3]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.21 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(CT)	-0.37 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.10 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.11 13-15	>999	240	Weight: 286 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
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 (4-9-5 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 5-13, 6-13
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=1731/0-5-8, 9=1731/0-5-8  
 Max Horz 2=108(LC 11)  
 Max Uplift 2=-59(LC 12), 9=-59(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2957/941, 3-5=-2768/995, 5-6=-2131/797, 6-8=-2768/995, 8-9=-2957/941  
 BOT CHORD 2-15=-697/2534, 13-15=-396/2025, 11-13=-396/2025, 9-11=-698/2534  
 WEBS 3-15=-407/371, 5-15=-250/692, 5-13=-39/372, 6-13=-39/372, 6-11=-250/692, 8-11=-407/371

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
  - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

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818 Soundside Road  
Edenton, NC 27932



Job 812025	Truss A26	Truss Type HIP	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204616
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Builders First Source, Sumter SC

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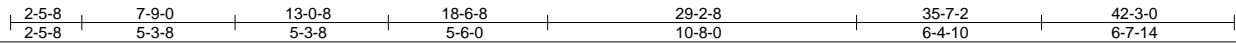
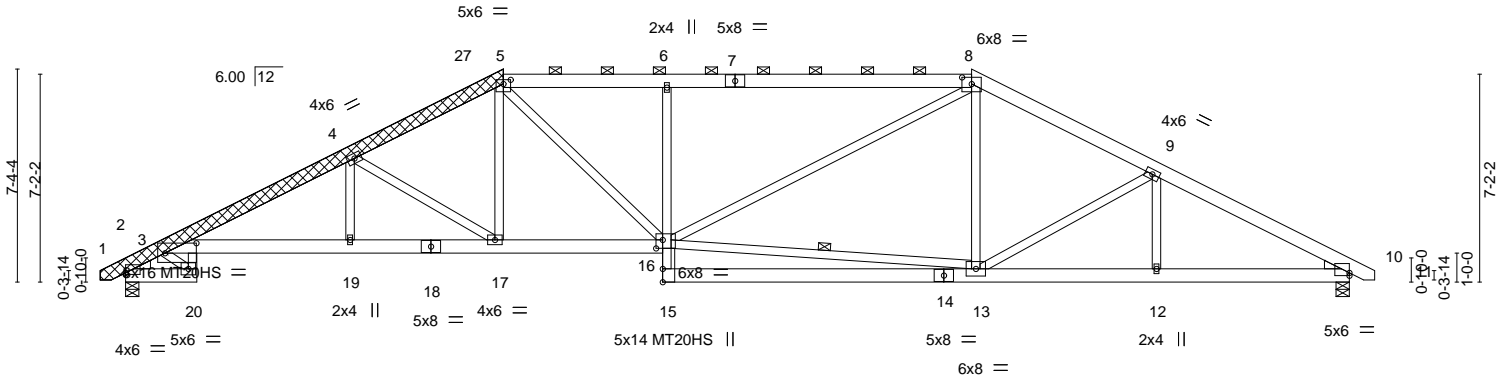


Plate Offsets (X,Y)-- [2:0-0,0,0-0-11], [3:1-1,0,0-4-2], [5:0-3,0,0-1-12], [8:0-4,0,0-2-12], [10:Edge,0-1-3], [16:0-2-12,0-3-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.24	16-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.49	16-17	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.30	10	n/a		n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.20	16-17	>999		240
								Weight: 388 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except*	2-0-0 oc purlins (2-10-11 max.): 5-8.
3-20,6-15: 2x4 SP No.2, 3-18: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 13-16
OTHERS 2x6 SP No.2	
LBR SCAB 1-5 2x6 SP No.2 both sides	
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=1744/0-5-8, 10=1732/0-5-8  
 Max Horz 2=84(LC 11)  
 Max Uplift 2=-26(LC 12), 10=-33(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-22=-755/272, 3-4=-3823/1116, 4-5=-3067/958, 5-6=-3127/1046, 6-8=-3121/1051,  
 8-9=-2637/848, 9-10=-2969/898  
 BOT CHORD 3-19=-898/3499, 17-19=-898/3500, 16-17=-564/2651, 6-16=-629/334, 13-15=-33/470,  
 12-13=-683/2550, 10-12=-683/2550  
 WEBS 4-19=0/269, 4-17=-983/390, 5-17=-145/667, 5-16=-218/789, 13-16=-471/1864,  
 8-16=-252/1020, 8-13=0/368, 9-13=-280/214

**NOTES-**

- Attached 15-8-7 scab 1 to 5, both face(s) 2x6 SP No.2 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-4 from end at joint 1, nail 2 row(s) at 4" o.c. for 3-10-0.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss A27	Truss Type HIP	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204617
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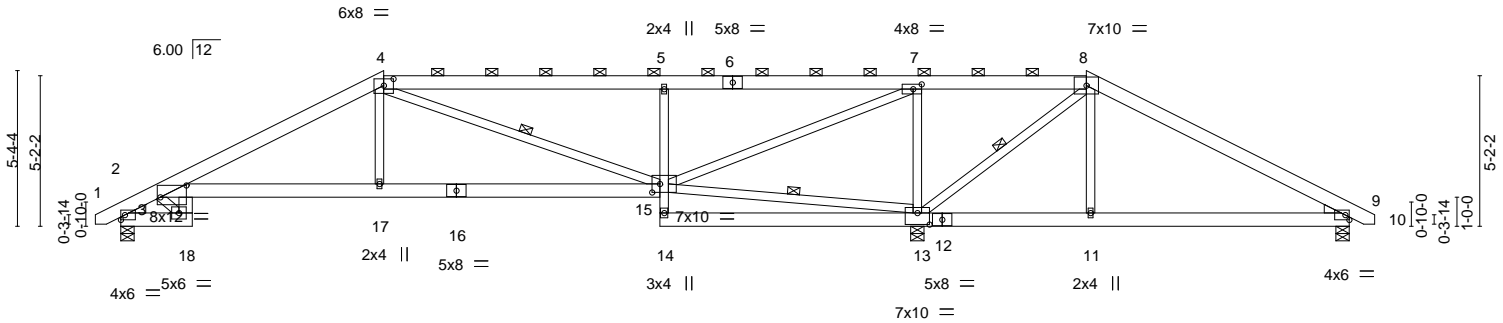
Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:19 2019 Page 1

ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-veXcemfTosIP2zncn7fT3MwuCE9SV4\_jSB3FS6zDK7Q

-0-10-8	9-0-8	18-6-8	27-4-12	33-2-8	42-3-0	43-1-8
0-10-8	9-0-8	9-6-0	8-10-4	5-9-12	9-0-8	0-10-8

Scale = 1:79.2



2-5-8	9-0-8	18-6-8	27-4-12	33-2-8	42-3-0
2-5-8	6-7-0	9-6-0	8-10-4	5-9-12	9-0-8

Plate Offsets (X,Y)-- [3:0-10-12,0-4-14], [4:0-4-0,0-2-12], [7:0-3-8,0-2-0], [13:0-5-0,0-4-12], [15:0-3-4,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.18	3-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.36	3-17	>925		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.18	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.15	3-17	>999	Weight: 290 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 4-6,6-8: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 4-8.
BOT CHORD 2x6 SP No.2 *Except* 3-16: 2x6 SP No.1, 5-14: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-15, 13-15, 8-13
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=917/0-5-8, 13=2368/0-5-8, 9=189/0-5-8  
 Max Horz 2=59(LC 11)  
 Max Uplift 2=-21(LC 12), 13=-128(LC 9), 9=-105(LC 23)  
 Max Grav 2=917(LC 1), 13=2368(LC 1), 9=276(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-20=-446/179, 3-4=-1566/448, 4-5=-830/335, 5-7=-807/339, 7-8=-207/1320,  
 8-9=-134/614  
 BOT CHORD 3-17=-255/1388, 15-17=-257/1377, 5-15=-586/324, 11-13=-510/162, 9-11=-505/164  
 WEBS 4-17=0/463, 4-15=-720/169, 13-15=-1215/409, 7-15=-577/2127, 7-13=-1287/450,  
 8-13=-1257/370, 8-11=0/305

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=128, 9=105.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



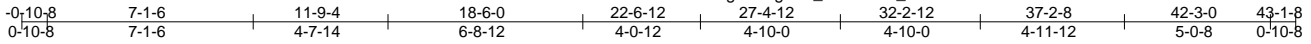
May 28, 2019

Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	137204618
812025	A28	ROOF SPECIAL GIRDER	2	1		

Builders First Source, Sumter SC

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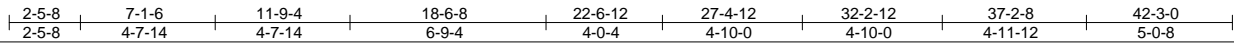
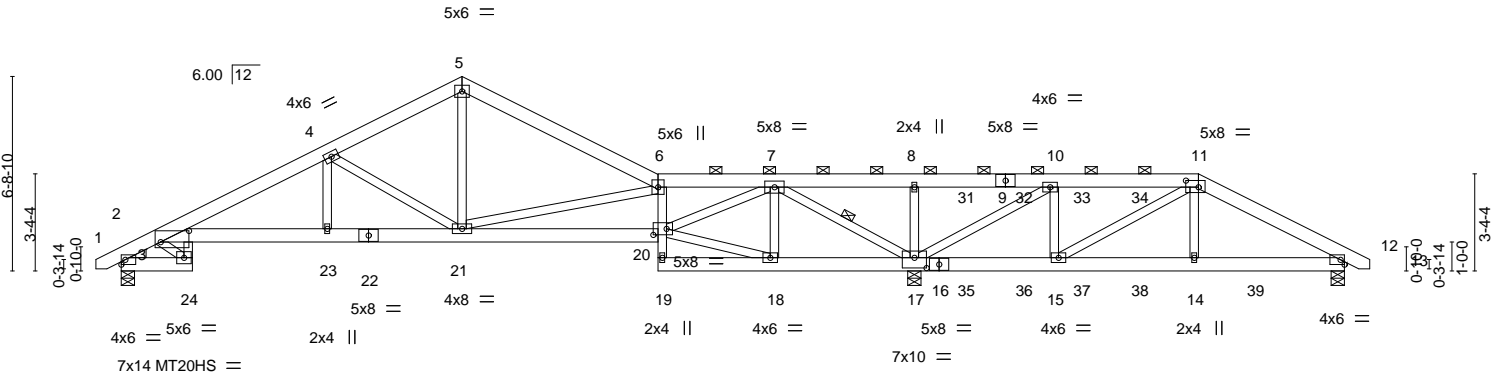


Plate Offsets (X, Y)-- [3:0-11-12,0-4-10], [11:0-5-4,0-2-12], [17:0-5-0,0-4-4], [20:0-5-8,0-2-8]

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 0.64	Vert(LL)	-0.12	3-23	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.25	3-23	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.81	Horz(CT)	0.16	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.10	3-23	>999		Weight: 296 lb FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2 \*Except\*  
 1-5: 2x6 SP DSS  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 3-24,6-19: 2x4 SP No.2, 3-22: 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 WEDGE  
 Left: 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except  
 2-0-0 oc purlins (6-0-0 max.); 6-11.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 7-17

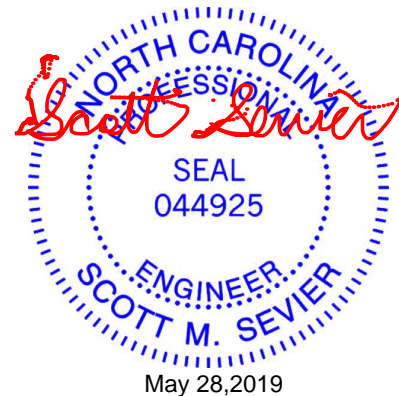
**REACTIONS.** (lb/size) 2=901/0-5-8, 17=2403/0-5-8, 12=208/0-5-8  
 Max Horz 2=78(LC 7)  
 Max Uplift 2=44(LC 27), 17=-329(LC 9), 12=-197(LC 9)  
 Max Grav 2=901(LC 1), 17=2403(LC 1), 12=281(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-26=-369/83, 3-4=-1712/104, 4-5=-1076/87, 5-6=-1067/82, 6-7=-1075/178,  
 7-8=-32/2209, 8-10=-32/2209, 10-11=-304/1011, 11-12=-371/451  
 BOT CHORD 3-23=81/1529, 21-23=-81/1531, 20-21=-99/1139, 6-20=-685/90, 17-18=-411/103,  
 15-17=-989/359, 14-15=-357/356, 12-14=-360/351  
 WEBS 4-23=0/284, 4-21=-757/130, 5-21=0/571, 6-21=-405/200, 18-20=-470/110,  
 7-20=-50/1634, 7-17=-2096/99, 8-17=-351/126, 10-17=-1560/378, 10-15=-13/527,  
 11-15=-970/30

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 17=329, 12=197.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 57 lb up at 29-1-12, 68 lb down and 57 lb up at 31-1-12, 68 lb down and 57 lb up at 33-1-12, and 68 lb down and 57 lb up at 35-1-12, and 68 lb down and 57 lb up at 37-2-8 on top chord, and 22 lb down and 26 lb up at 29-1-12, 22 lb down and 26 lb up at 31-1-12, 22 lb down and 26 lb up at 33-1-12, 22 lb down and 26 lb up at 35-1-12, and 22 lb down and 26 lb up at 37-1-12, and 22 lb down and 26 lb up at 39-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

On the CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (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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Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	I37204618
812025	A28	ROOF SPECIAL GIRDER	2	1	Job Reference (optional)	

Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:22 2019 Page 2  
 ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-JDCIGohL5n7zvQVBSFDAh?YSRRBxiU6989lw2RzDK7N

**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, 5-6=-60, 6-11=-60, 11-13=-60, 24-25=-20, 3-20=-20, 19-28=-20
- Concentrated Loads (lb)
  - Vert: 14=1(B) 35=1(B) 36=1(B) 37=1(B) 38=1(B) 39=-40(B)

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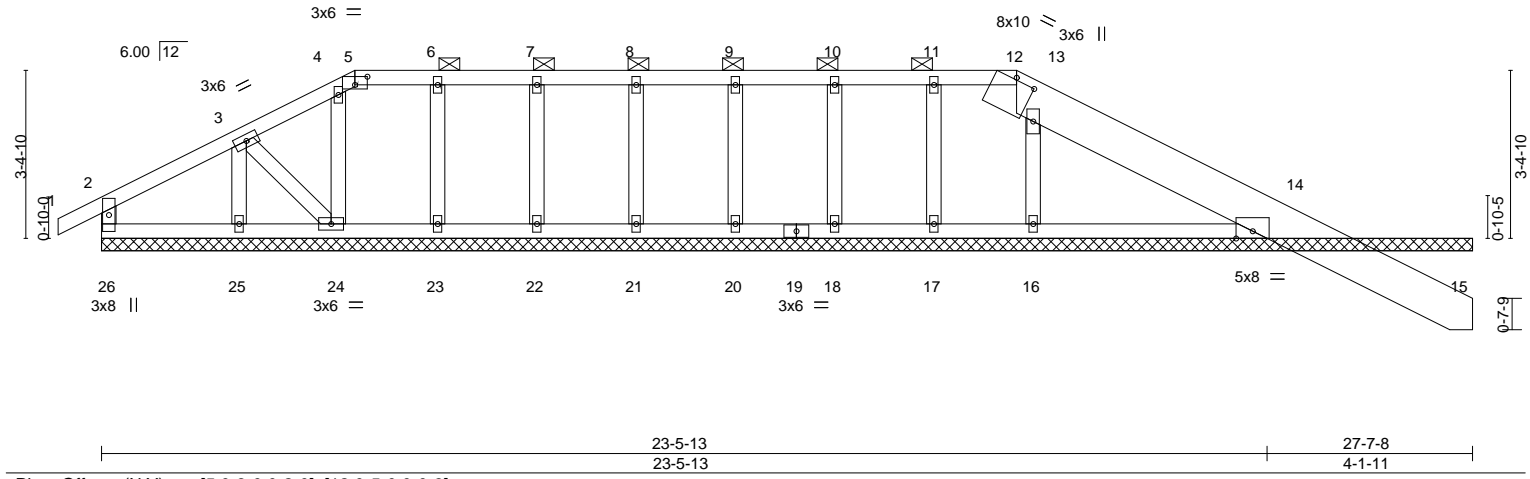
Job 812025	Truss B01	Truss Type GABLE	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204619
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:23 2019 Page 1  
ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-oPm7T8isz4FqXa4N0zkPEC5m?rhHR7TINp1TbtzDK7M



Scale = 1:46.4



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 0.08	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 145 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 12-15: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-12.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 27-7-8.  
(lb) - Max Horz 26=-126(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 26, 15, 21, 22, 23, 24, 25, 20, 18, 17, 16 except 14=-131(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 26, 15, 21, 22, 23, 24, 25, 20, 18, 17 except 16=268(LC 1), 14=418(LC 24)

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

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 15, 21, 22, 23, 24, 25, 20, 18, 17, 16 except (jt=16) 14=131.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate

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Job 812025	Truss B02	Truss Type Hip	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204620
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:24 2019 Page 1  
ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-GckVhTjcdONh9kfaagFemQep7Ft?9X8SbTn07JkDK7L



Scale: 1/4"=1'

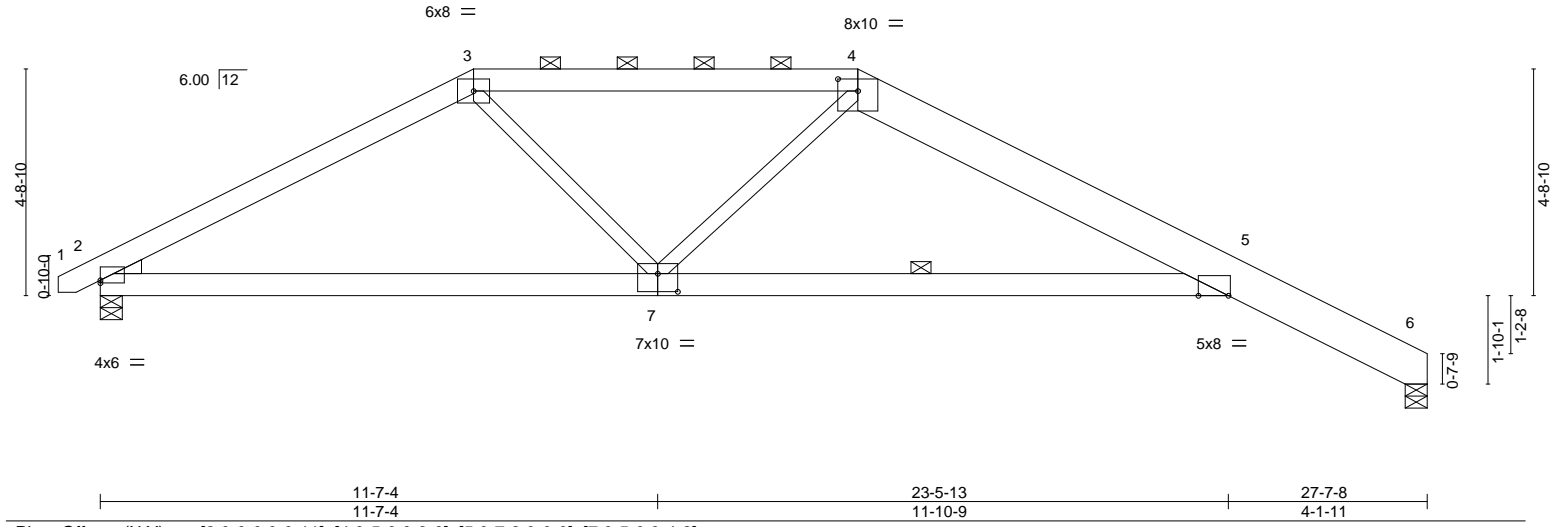


Plate Offsets (X,Y)--	[2:0-0-0,0-0-11], [4:0-5-0,0-3-0], [5:0-7-8,0-0-0], [7:0-5-0,0-4-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.29 7-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.63 7-13 >526 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.26 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.27 7-13 >999 240	Weight: 167 lb	FT = 20%

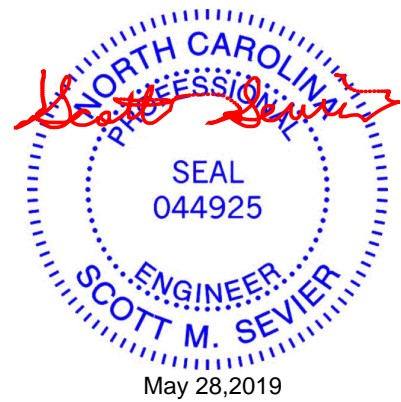
**LUMBER-**  
TOP CHORD 2x6 SP No.2 \*Except\*  
4-6: 2x10 SP DSS  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except  
2-0-0 oc purlins (5-2-0 max.): 3-4.  
BOT CHORD Rigid ceiling directly applied. Except:  
10-0-0 oc bracing: 5-7

**REACTIONS.** (lb/size) 6=1104/0-5-8, 2=1138/0-5-8  
Max Horz 2=-162(LC 13)  
Max Uplift 6=-184(LC 13), 2=-155(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1749/554, 3-4=-1753/550, 4-5=-1881/592, 5-6=-479/191  
BOT CHORD 2-7=-269/1466, 5-7=-354/1787  
WEBS 3-7=0/517

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=184, 2=155.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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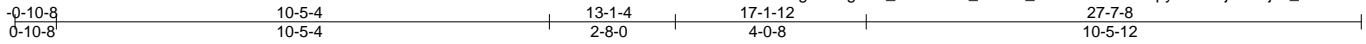


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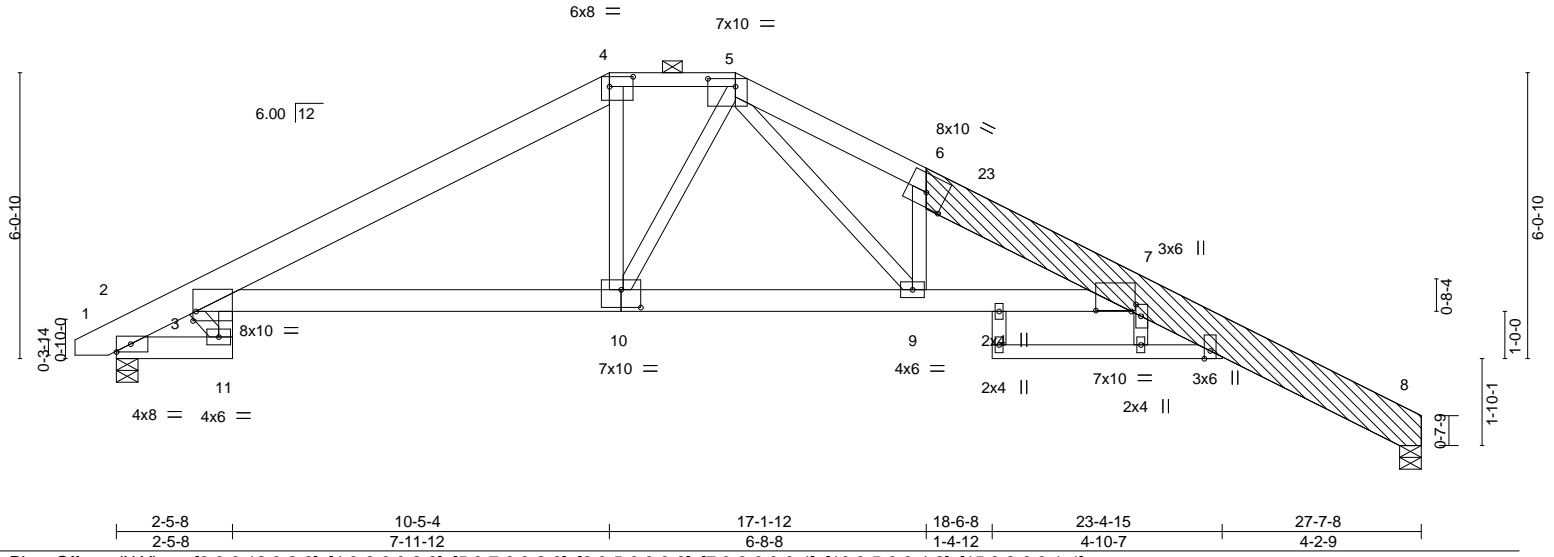
Job 812025	Truss B03	Truss Type HIP	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204621
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:26 2019 Page 1  
ID:iAmMfg3tWoghNx\_OkVH7Bz\_9Ds-C\_SG69ks9?dPO1pyh5H6rrjBz3Xjdd\_I3nG7BCzDK7J



Scale = 1:48.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.29 9-22 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.69	Vert(CT) -0.59 9-22 >556 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.48 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.25 9-22 >999 240	Weight: 237 lb	FT = 20%

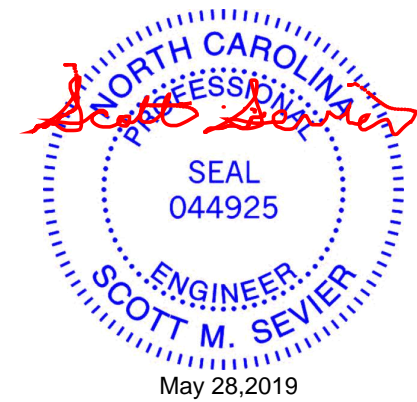
**LUMBER-**  
TOP CHORD 2x8 SP DSS \*Except\*  
4-5: 2x4 SP No.2, 5-6: 2x6 SP No.2, 6-8: 2x10 SP DSS  
BOT CHORD 2x6 SP No.2 \*Except\*  
3-11,12-13: 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
12-14: 2x4 SP No.2  
OTHERS 2x4 SP No.3  
LBR SCAB 6-8 2x10 SP DSS one side

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

**REACTIONS.** (lb/size) 2=1136/0-5-8, 8=1109/0-5-8  
Max Horz 2=-189(LC 13)  
Max Uplift 2=-175(LC 12), 8=-203(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-18=-532/272, 3-4=-1830/519, 4-5=-1632/563, 5-6=-3110/1000, 6-7=-2708/777,  
7-8=-474/216  
BOT CHORD 3-10=-200/1619, 9-10=-215/1625, 7-9=-586/2765  
WEBS 4-10=-23/332, 6-9=-1165/468, 5-9=-538/1678

- NOTES-** (12)
- Attached 12-0-0 scab 6 to 8, front face(s) 2x10 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-15 from end at joint 6, nail 2 row(s) at 3" o.c. for 2-0-0; starting at 2-9-15 from end at joint 6, nail 2 row(s) at 3" o.c. for 3-0-5.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=175, 8=203.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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Job 812025	Truss B04	Truss Type ROOF SPECIAL	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204622
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:27 2019 Page 1

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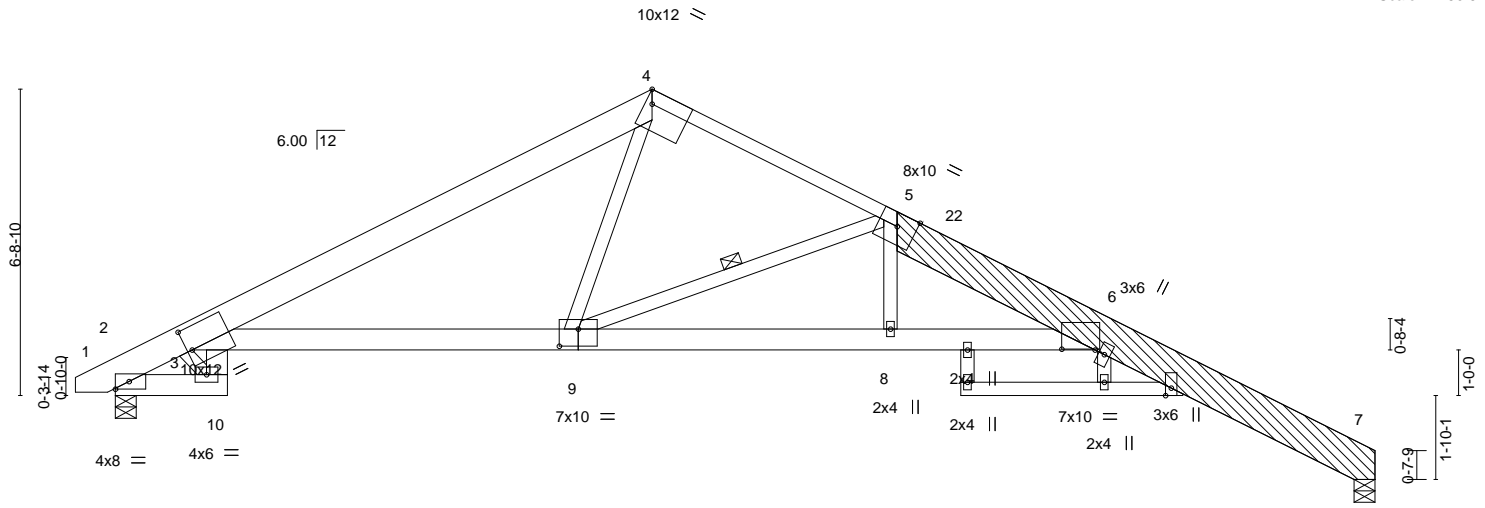


Plate Offsets (X, Y)--	[3:0-1-4,0-5-14], [4:Edge,0-3-8], [6:0-8-12,0-0-4], [9:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.30	8-21	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.60	8-21	>550		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.50	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.27	3-9	>999	Weight: 233 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP DSS *Except* 4-5: 2x4 SP No.2, 5-7: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2 *Except* 3-9: 2x6 SP No.1, 11-12: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-9
OTHERS 2x4 SP No.2 *Except* 14-15: 2x4 SP No.3	
LBR SCAB 5-7 2x10 SP DSS one side	

REACTIONS.	(lb/size)	2=1133/0-5-8, 7=1108/0-5-8
	Max Horz	2=-201(LC 13)
	Max Uplift	2=-189(LC 12), 7=-212(LC 13)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-17=-630/295, 3-4=-1776/505, 4-5=-1512/516, 5-6=-2618/773, 6-7=-474/218
BOT CHORD	3-9=-163/1545, 8-9=-579/2691, 6-8=-583/2684, 3-10=-51/291
WEBS	5-9=-1487/489, 4-9=-143/845

- NOTES-** (10)
- Attached 12-0-0 scab 5 to 7, front face(s) 2x10 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-1-7 from end at joint 5, nail 2 row(s) at 3" o.c. for 2-0-0; starting at 2-9-15 from end at joint 5, nail 2 row(s) at 3" o.c. for 3-0-5.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=189, 7=212.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

**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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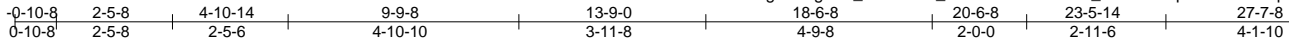


Job 812025	Truss B05	Truss Type HIP GIRDER	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204623
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Builders First Source, Sumter SC

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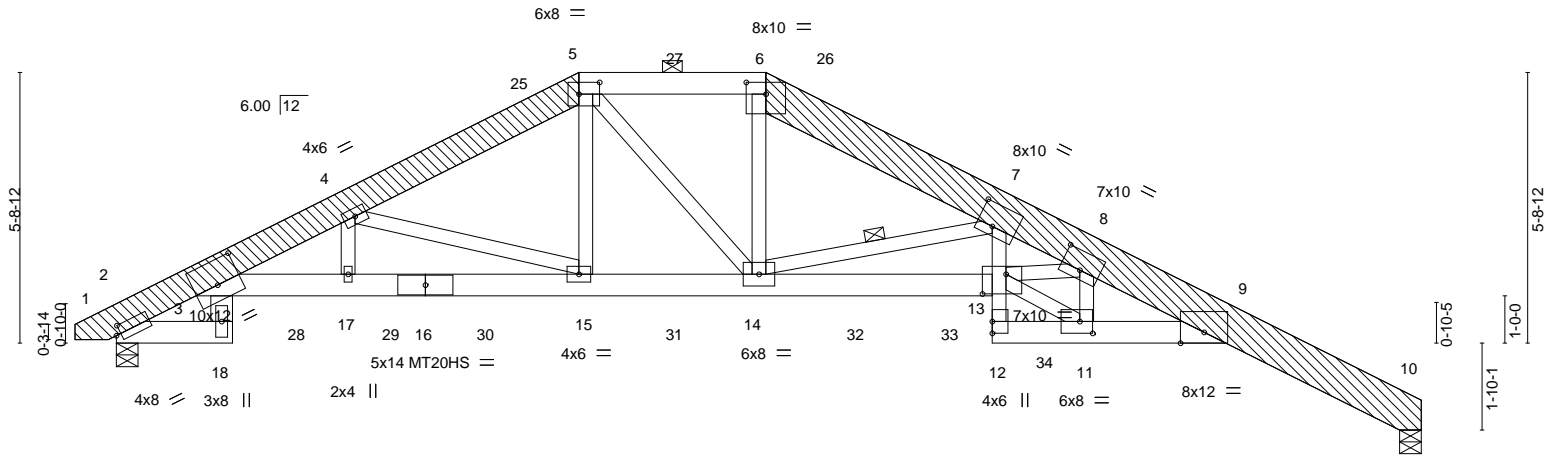


Plate Offsets (X,Y)--	[2:0-1-4,0-2-4], [3:0-6-0,0-6-2], [5:0-5-4,0-3-0], [6:0-5-0,0-3-0], [7:0-4-0,0-5-12], [8:0-5-0,0-4-12], [11:0-3-4,0-3-0], [13:0-6-0,0-5-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.28 13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.58 13-14	>565	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.80	Horz(CT)	0.43 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.28 13-14	>999	240		Weight: 311 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP DSS *Except* 5-6: 2x6 SP No.2, 6-10: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (4-3-5 max.): 5-6.
BOT CHORD 2x6 SP No.1 *Except* 2-18,3-18: 2x6 SP No.2, 7-12: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 11-13: 2x4 SP No.1	WEBS 1 Row at midpt 7-14
OTHERS 2x8 SP DSS	
LBR SCAB 1-5 2x8 SP DSS one side 6-10 2x10 SP DSS one side	

**REACTIONS.** (lb/size) 10=1550/0-5-8, 2=1749/0-5-8  
 Max Horz 2=-116(LC 9)  
 Max Uplift 10=-251(LC 9), 2=-352(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-20=-845/273, 3-4=-3981/912, 4-5=-2922/742, 5-6=-2859/733, 6-7=-3006/748,  
 7-8=-5924/1157, 8-9=-4608/836, 9-10=-679/157  
 BOT CHORD 3-18=-75/404, 3-17=-840/3850, 15-17=-839/3848, 14-15=-562/2603, 13-14=-868/5001,  
 7-13=-402/2802, 11-12=-48/347, 9-11=-717/4470  
 WEBS 4-15=-1338/297, 5-15=-124/627, 5-14=-88/475, 6-14=-90/590, 7-14=-2271/370,  
 8-11=-2233/459, 11-13=-785/4842, 8-13=-195/530

- NOTES-**
- Attached 12-0-13 scab 1 to 5, front face(s) 2x8 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-7-6 from end at joint 1, nail 2 row(s) at 3" o.c. for 3-6-14.
  - Attached 15-9-9 scab 6 to 10, front face(s) 2x10 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-1-1 from end at joint 6, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 4-6-4 from end at joint 6, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 6-7-2 from end at joint 6, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 8-10-5 from end at joint 6, nail 2 row(s) at 2" o.c. for 3-0-5.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	I37204623
812025	B05	HIP GIRDER	2	1		
Job Reference (optional)						

Builders First Source, Sumter SC

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**NOTES-**

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=251, 2=352.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 119 lb down and 117 lb up at 9-9-8, and 123 lb down and 117 lb up at 11-10-4, and 119 lb down and 117 lb up at 13-9-0 on top chord, and 145 lb down and 40 lb up at 2-0-2, 67 lb down at 3-10-4, 82 lb down and 51 lb up at 5-10-4, 119 lb down and 91 lb up at 7-10-4, 64 lb down and 25 lb up at 9-10-4, 64 lb down and 25 lb up at 11-10-4, 64 lb down and 25 lb up at 13-8-4, 119 lb down and 91 lb up at 15-8-4, and 82 lb down and 51 lb up at 17-8-4, and 195 lb down at 19-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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, 3-5=-60, 5-6=-60, 6-9=-60, 9-10=-82, 18-19=-20, 3-13=-20, 12-22=-20

Concentrated Loads (lb)

Vert: 5=-64(B) 6=-64(B) 18=-145(B) 15=-28(B) 14=-28(B) 27=-64(B) 28=-58(B) 29=-82(B) 30=-112(B) 31=-28(B) 32=-112(B) 33=-82(B) 34=-195(B)

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Job 812025	Truss B06	Truss Type ROOF SPECIAL	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204624
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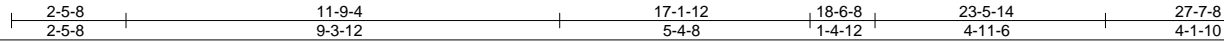
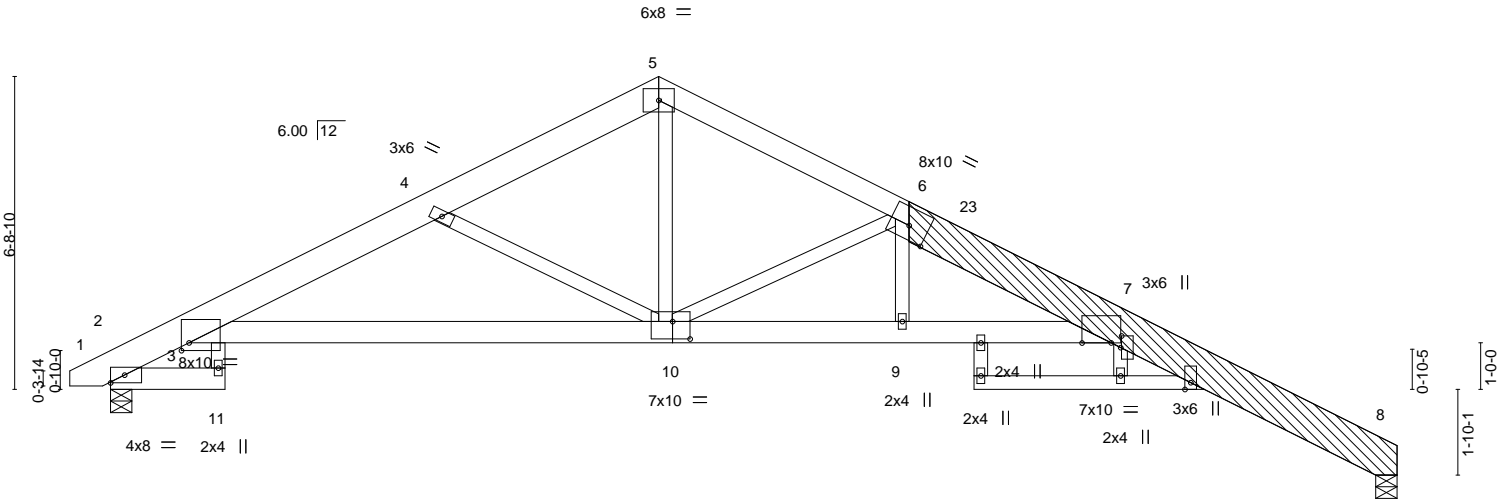


Plate Offsets (X, Y)-- [3:0-1-15,0-2-0], [6:0-5-0,0-3-8], [7:0-7-8,Edge], [10:0-4-8,0-4-8], [15:0-3-0,0-0-4]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.28	9-22	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.57	9-22	>579		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.45	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.23	9-22	>999	Weight: 241 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x8 SP DSS *Except* 5-6: 2x6 SP No.2, 6-8: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2 *Except* 3-11,12-13,13-14: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
LBR SCAB 6-8 2x10 SP DSS one side	

**REACTIONS.** (lb/size) 2=1135/0-5-8, 8=1108/0-5-8  
 Max Horz 2=-127(LC 13)  
 Max Uplift 2=-37(LC 12), 8=-52(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-18=-547/279, 3-4=-2377/744, 4-5=-1718/552, 5-6=-1773/566, 6-7=-2742/833,  
 7-8=-474/218  
 BOT CHORD 3-10=-480/2250, 9-10=-637/2812, 7-9=-638/2806  
 WEBS 4-10=-896/371, 5-10=-308/1244, 6-10=-1446/528

- NOTES-**
- Attached 12-0-0 scab 6 to 8, front face(s) 2x10 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-15 from end at joint 6, nail 2 row(s) at 3" o.c. for 2-0-0; starting at 2-9-15 from end at joint 6, nail 2 row(s) at 3" o.c. for 3-0-5.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



May 28, 2019

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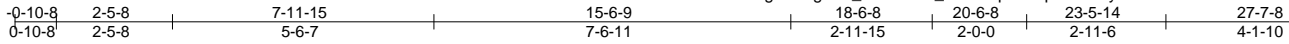
818 Soundside Road  
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Job 812025	Truss B10	Truss Type HIP GIRDER	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204625
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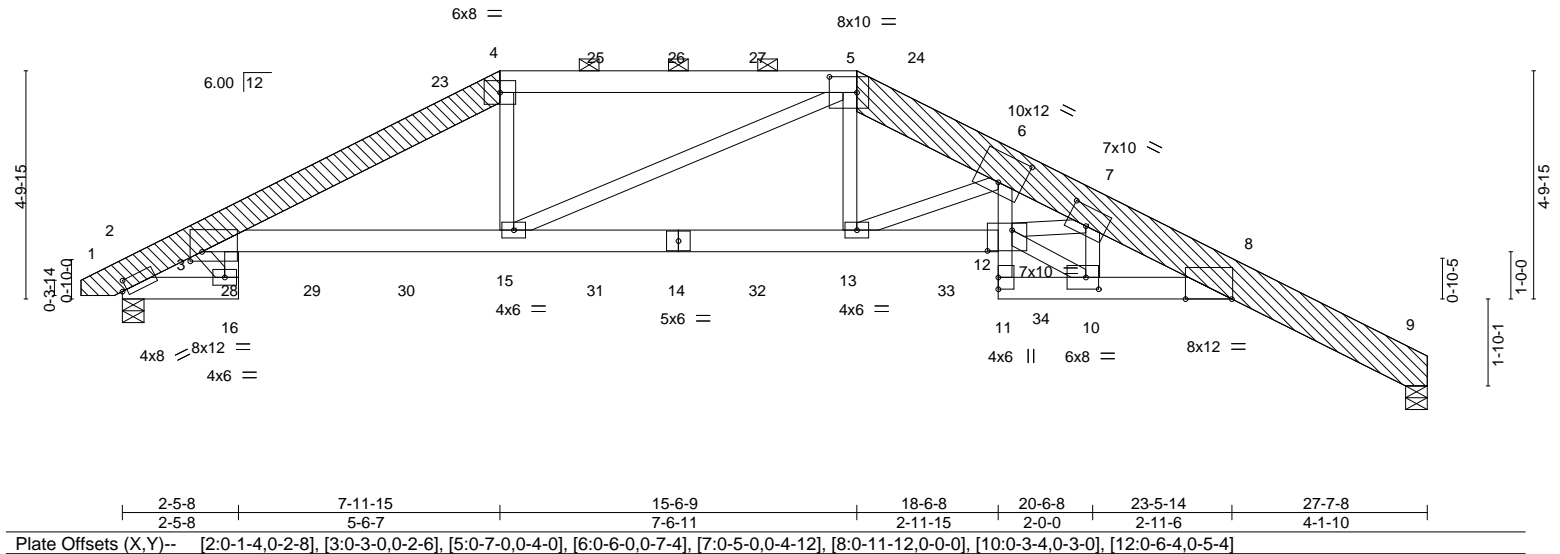
Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:32 2019 Page 1

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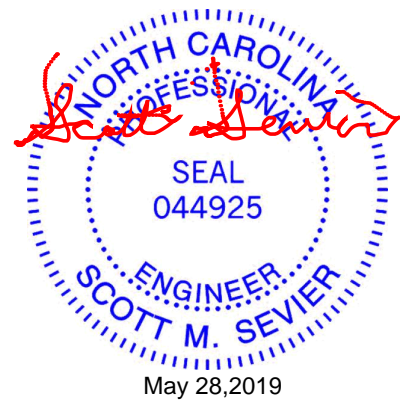
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.28 12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.57 12-13	>576	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.82	Horz(CT)	0.44 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.22 12-13	>999	240		
								Weight: 281 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP DSS *Except* 4-5: 2x6 SP No.2, 5-9: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (3-3-13 max.): 4-5.
BOT CHORD 2x6 SP No.1 *Except* 2-16: 2x6 SP No.2, 3-16,6-11: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-16.
WEBS 2x4 SP No.2 *Except* 10-12: 2x4 SP No.1, 3-16: 2x4 SP No.3	
OTHERS 2x8 SP DSS	
LBR SCAB 1-4 2x8 SP DSS one side 5-9 2x10 SP DSS one side	

**REACTIONS.** (lb/size) 9=1591/0-5-8, 2=1776/0-5-8  
 Max Horz 2=-106(LC 9)  
 Max Uplift 9=-138(LC 9), 2=-246(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-18=-765/201, 3-4=-3397/449, 4-5=-3178/462, 5-6=-3752/448, 6-7=-6197/584,  
 7-8=-4764/423, 8-9=-697/106  
 BOT CHORD 3-16=-57/349, 3-15=-352/3157, 13-15=-267/3662, 12-13=-384/5254, 6-12=-186/2870,  
 10-11=-12/399, 8-10=-321/4618  
 WEBS 4-15=0/705, 5-15=-645/34, 5-13=0/937, 6-13=-1809/128, 7-10=-2283/248,  
 10-12=-362/4954, 7-12=-124/659

- NOTES-**
- Attached 10-0-11 scab 1 to 4, front face(s) 2x8 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-7-6 from end at joint 1, nail 2 row(s) at 3" o.c. for 3-5-15; starting at 7-11-3 from end at joint 1, nail 2 row(s) at 7" o.c. for 2-0-0.
  - Attached 13-9-7 scab 5 to 9, front face(s) 2x10 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-1-1 from end at joint 5, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 2-6-2 from end at joint 5, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 4-7-0 from end at joint 5, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 6-10-3 from end at joint 5, nail 2 row(s) at 2" o.c. for 3-0-5.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCdL=6.0psf; BCdL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=138, 2=246.



On the ground representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	I37204625
812025	B10	HIP GIRDER	1	1	Job Reference (optional)	

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**NOTES-**

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 105 lb down and 93 lb up at 7-11-15, 109 lb down and 93 lb up at 10-0-11, 109 lb down and 93 lb up at 11-9-4, and 109 lb down and 93 lb up at 13-5-13, and 105 lb down and 93 lb up at 15-6-9 on top chord, and 140 lb down and 46 lb up at 2-3-12, 70 lb down and 27 lb up at 4-0-11, 106 lb down and 62 lb up at 6-0-11, 67 lb down at 8-0-11, 67 lb down at 10-0-11, 67 lb down at 11-9-4, 67 lb down at 13-5-13, 67 lb down at 15-5-13, and 106 lb down and 62 lb up at 17-5-13, and 249 lb down at 19-5-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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, 4-5=-60, 5-8=-60, 8-9=-82, 16-17=-20, 3-12=-20, 11-20=-20

Concentrated Loads (lb)

Vert: 4=-55(B) 5=-55(B) 14=-36(B) 15=-36(B) 13=-36(B) 16=-140(B) 25=-55(B) 26=-55(B) 27=-55(B) 29=-70(B) 30=-106(B) 31=-36(B) 32=-36(B) 33=-106(B) 34=-249(B)

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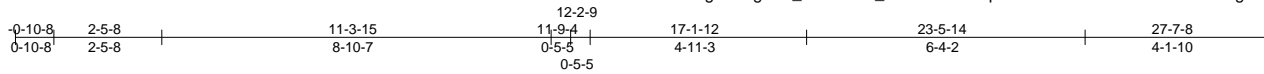


818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss B11	Truss Type HIP	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204626
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:33 2019 Page 1  
ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-VKNvaYqFV9VPk6Rlb3vidJWNDtwnmThmgMS?xlzDK7C



Scale = 1:52.5

7x14 MT20HS ||

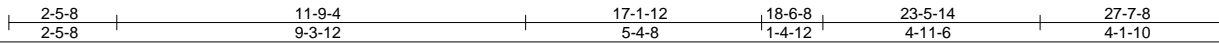
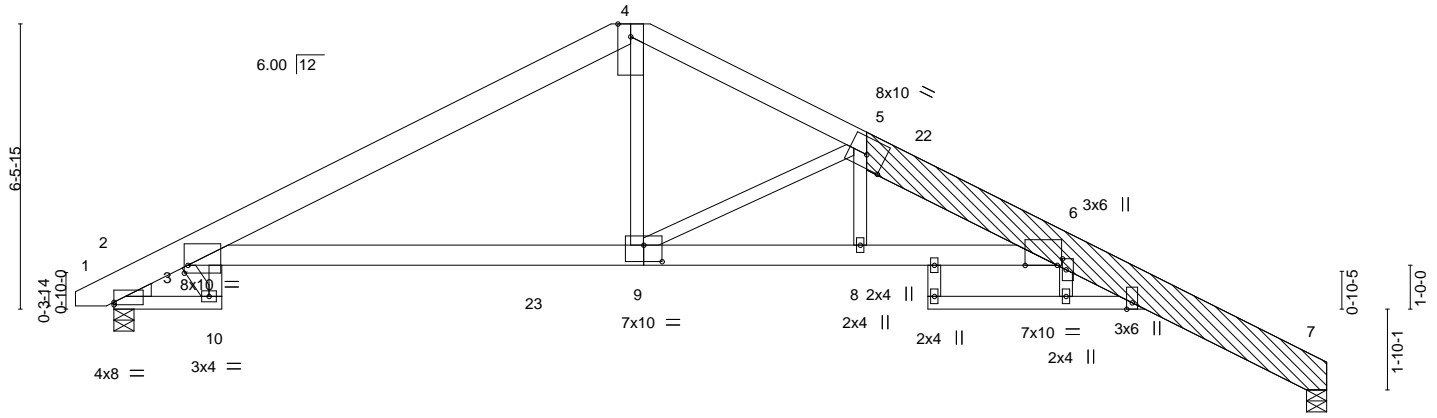


Plate Offsets (X, Y)-- [2:Edge,0-0-11], [3:0-1-0,0-2-2], [5:0-5-0,0-3-8], [6:0-8-12,Edge], [9:0-5-0,0-4-8], [14:0-3-0,0-1-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.29	3-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.62	3-9	>528	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.52	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.24	3-9	>999		
								Weight: 233 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x8 SP DSS *Except* 4-5: 2x6 SP No.2, 5-7: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2 *Except* 6-9,3-9: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
LBR SCAB 5-7 2x10 SP DSS one side	
WEDGE Left: 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=1136/0-5-8, 7=1109/0-5-8  
 Max Horz 2=-126(LC 13)  
 Max Uplift 2=-37(LC 12), 7=-52(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-17=-502/265, 3-4=-1793/536, 4-5=-1836/593, 5-6=-2683/803, 6-7=-474/218  
 BOT CHORD 3-9=-206/1593, 8-9=-607/2746, 6-8=-609/2742  
 WEBS 4-9=-137/834, 5-9=-1237/441

**NOTES-**

- Attached 12-0-0 scab 5 to 7, front face(s) 2x10 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-15 from end at joint 5, nail 2 row(s) at 3" o.c. for 2-0-0; starting at 2-9-15 from end at joint 5, nail 2 row(s) at 3" o.c. for 3-0-5.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 28, 2019

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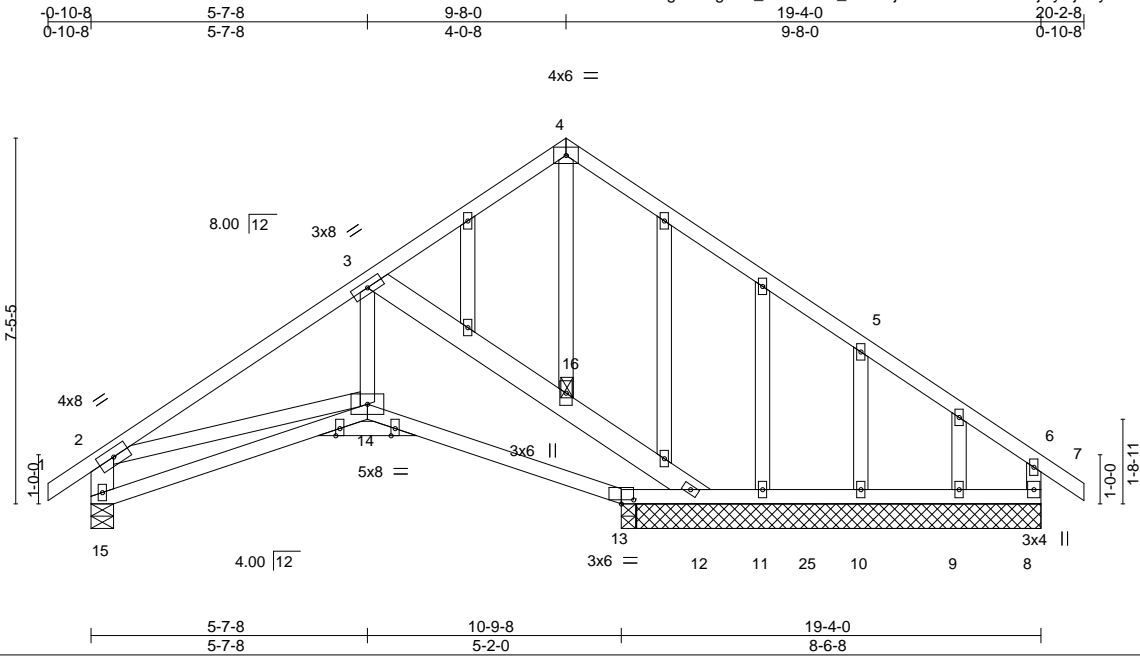
**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss C01	Truss Type GABLE	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204627
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8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:35 2019 Page 1  
ID:AmMffg3tW0ghNx\_OkVH7Bz\_9Ds-RjVf?ErV1mm7zQ?hjUyDjkbyhITEVO37gx60AzDK7A



Scale = 1:46.9

Plate Offsets (X,Y)--	[13-0-3-0,0-1-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.02 14 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.06 14-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.04 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.02 14 >999 240	Weight: 135 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except*	JOINTS 1 Brace at Jt(s): 16
OTHERS 2-15,3-12: 2x6 SP No.2	
2x4 SP No.3	

**REACTIONS.** All bearings 8-2-12 except (jt=length) 15=0-5-8, 13=0-3-8.  
 (lb) - Max Horz 15=-236(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 9 except 15=-129(LC 12), 12=-145(LC 12), 10=-273(LC 13), 13=-188(LC 19)  
 Max Grav All reactions 250 lb or less at joint(s) 11, 9, 13 except 15=653(LC 1), 8=312(LC 1), 12=522(LC 19), 10=431(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1022/196, 3-4=-259/171, 4-5=-286/144, 2-15=-675/229  
 BOT CHORD 14-15=-246/418, 13-14=-171/956, 12-13=-154/893  
 WEBS 3-16=-842/269, 12-16=-889/269, 3-14=-49/607, 2-14=0/567, 5-10=-406/308

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 15=129, 12=145, 10=273, 13=188.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

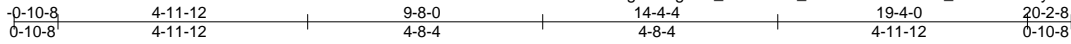


Job 812025	Truss C02	Truss Type Roof Special	Qty 6	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204628
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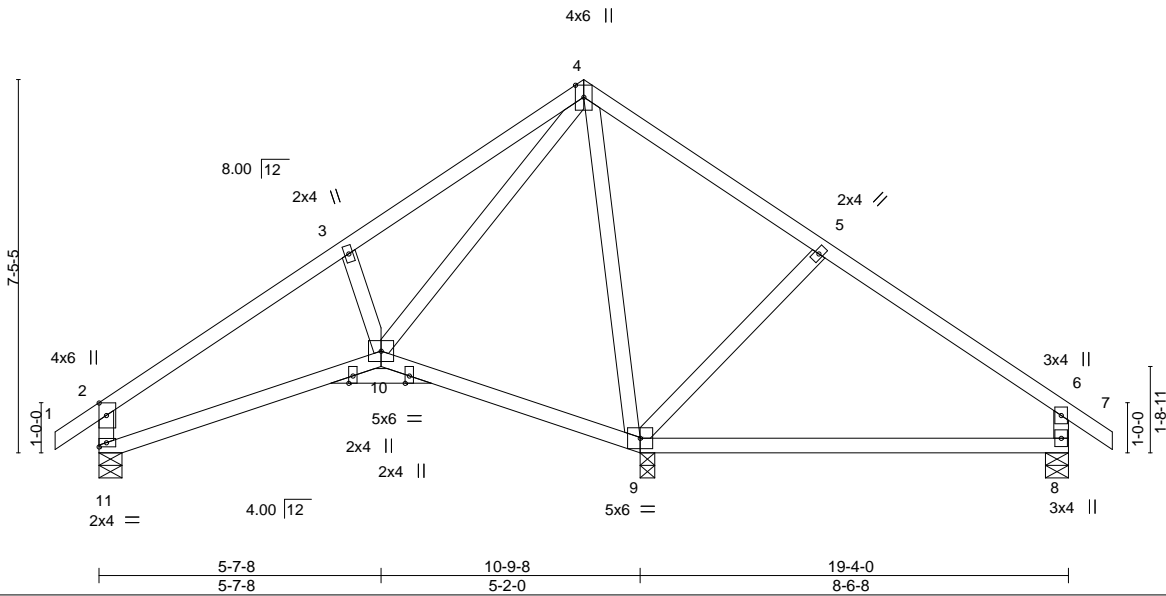


Plate Offsets (X,Y)--	[2:0-3-0,Edge]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.14	8-9	>704	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.29	8-9	>348		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.03	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.02	10	>999		
								Weight: 104 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

<b>REACTIONS.</b> (lb/size)	11=375/0-5-8, 9=1015/0-3-8, 8=255/0-5-8
	Max Horz 11=-235(LC 10)
	Max Uplift 11=-83(LC 12), 9=-154(LC 13), 8=-121(LC 13)
	Max Grav 11=387(LC 23), 9=1015(LC 1), 8=334(LC 24)

<b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-424/136, 3-4=-452/229, 4-5=-47/287, 2-11=-408/177, 6-8=-251/176
BOT CHORD 10-11=-182/445
WEBS 3-10=-288/238, 4-10=-226/587, 4-9=-671/139, 5-9=-336/224

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 9=154, 8=121.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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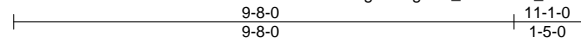


Job 812025	Truss C03	Truss Type Scissor	Qty 9	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204629
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8x10

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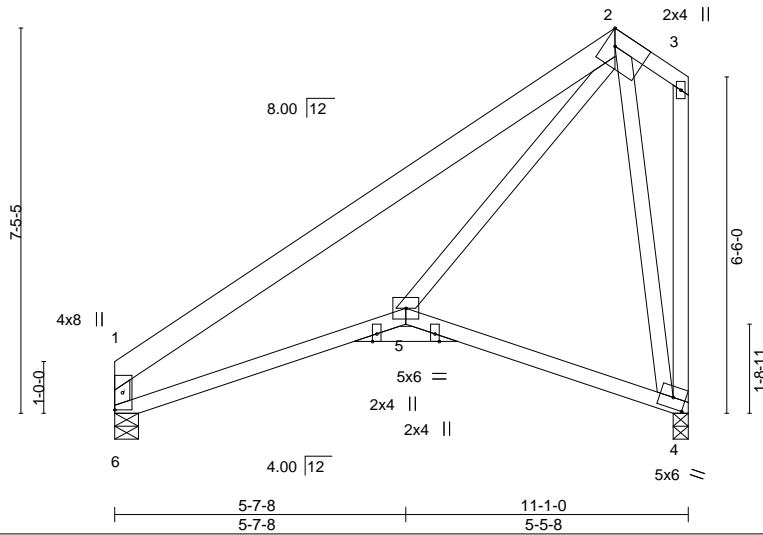


Plate Offsets (X,Y)--	[1:0-1-3,0-1-12], [2:Edge,0-3-8], [4:0-2-14,0-2-8], [6:0-0-9,0-1-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.04	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.07	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.04	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	-0.05	4-5	>999	Weight: 81 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 2-3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

**REACTIONS.** (lb/size) 6=432/0-5-8, 4=432/0-3-8  
 Max Horz 6=253(LC 12)  
 Max Uplift 6=-17(LC 12), 4=-179(LC 12)  
 Max Grav 6=432(LC 1), 4=451(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-511/12, 1-6=-482/126  
 BOT CHORD 5-6=-128/399  
 WEBS 2-5=-41/423, 2-4=-713/474

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
  - 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.
  - Bearing at joint(s) 6, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 4=179.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



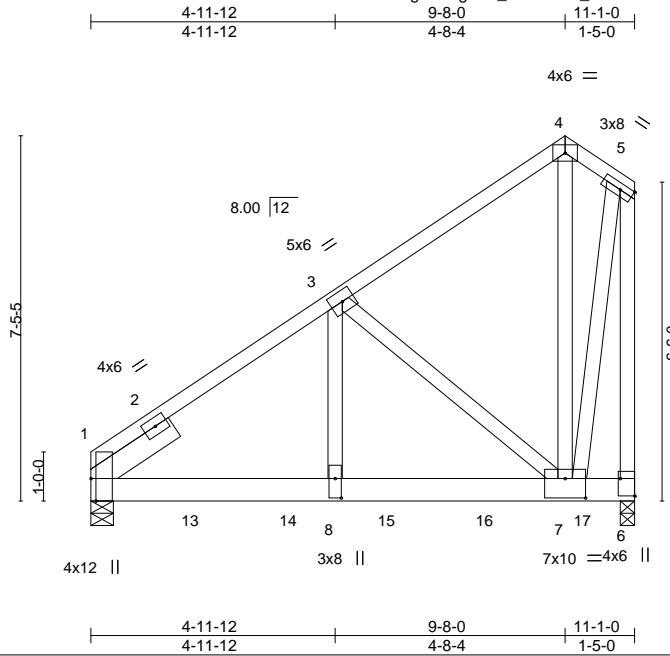
May 28, 2019

Job 812025	Truss C04	Truss Type Common Girder	Qty 3	Ply 2	H&H/Jessamine/ Job Reference (optional)	137204630
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Scale = 1:47.0

Plate Offsets (X,Y)--	[1:0-5-8,Edge], [6:Edge,0-3-8], [7:0-5-0,0-4-12], [8:0-4-12,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.06 7-8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.11 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.46	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.05 7-8 >999 240	Weight: 185 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x6 SP No.2 2-0-0

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

**REACTIONS.** (lb/size) 1=3536/0-5-8, 6=4292/0-3-8  
 Max Horz 1=183(LC 27)  
 Max Uplift 1=446(LC 8), 6=702(LC 8)  
 Max Grav 1=3536(LC 1), 6=4310(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-3971/537, 3-4=-1009/147, 4-5=-954/159, 5-6=-4252/682  
 BOT CHORD 1-8=-560/3250, 7-8=-560/3250  
 WEBS 3-8=-494/3534, 3-7=-3218/565, 4-7=-204/934, 5-7=-614/3779

- NOTES-** (10)
- 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.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=446, 6=702.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1390 lb down and 196 lb up at 2-0-12, 1470 lb down and 224 lb up at 4-0-12, 1415 lb down and 236 lb up at 6-0-12, and 1415 lb down and 236 lb up at 8-0-12, and 1416 lb down and 234 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard



May 28, 2019

Continued on page 2

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



818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss C04	Truss Type Common Girder	Qty 3	Ply <b>2</b>	H&H/Jessamine/ Job Reference (optional)	137204630
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:38 2019 Page 2  
ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-rIAodGuOKh8iqtkGOcVwKNDBMuffRoZWpeAmcVzDK77

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
  - Vert: 1-4=-60, 4-5=-60, 6-9=-20
- Concentrated Loads (lb)
  - Vert: 13=-1390(B) 14=-1390(B) 15=-1390(B) 16=-1390(B) 17=-1392(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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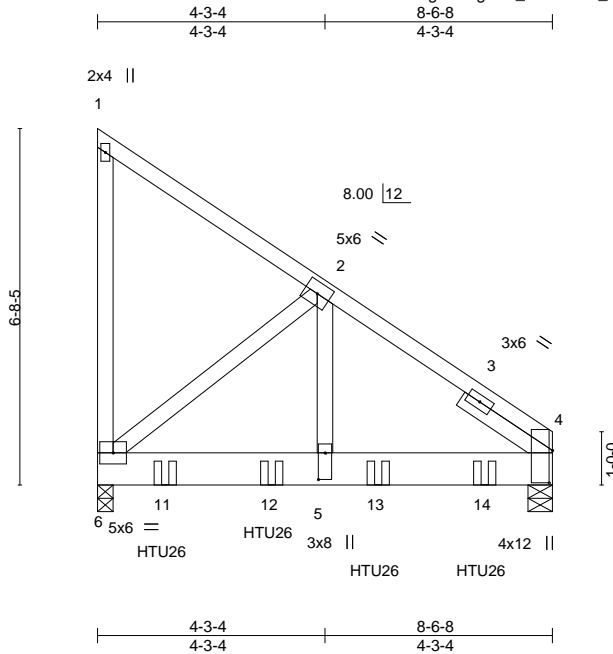
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss C05	Truss Type Roof Special Girder	Qty 3	Ply 2	H&H/Jessamine/ Job Reference (optional)	137204631
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:39 2019 Page 1

ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-KUkAqcu05?GZS1JSyK09talUxI6vAFI2IvJ9xzDK76



Scale = 1:43.3

Plate Offsets (X,Y)--	[4:0-7-5,0-0-12], [5:0-6-0,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) -0.02 5-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.04 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.47	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.01 5-6 >999 240	Weight: 130 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP DSS  
WEBS 2x4 SP No.2  
SLIDER Right 2x4 SP No.3 2-0-0

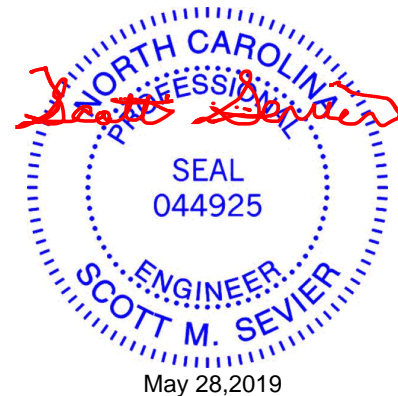
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=3617/0-5-8, 6=3733/0-3-8  
Max Horz 6=-173(LC 24)  
Max Uplift 4=-122(LC 9), 6=-265(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-3324/109  
BOT CHORD 5-6=-52/2727, 4-5=-52/2727  
WEBS 2-6=-3498/265, 2-5=-157/3809

- NOTES-** (10)
- 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.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=122, 6=265.
  - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-3-4 from the left end to 7-3-4 to connect truss(es) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-60, 6-7=-20



Continued on page 2

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

Job 812025	Truss C05	Truss Type Roof Special Girder	Qty 3	Ply <b>2</b>	H&H/Jessamine/ Job Reference (optional)	I37204631
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:39 2019 Page 2  
ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-KUkAqcu05?GZS1JSyK09talUxI6vAFIf2lvJ9xzDK76

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 11=-1670(B) 12=-1670(B) 13=-1670(B) 14=-1670(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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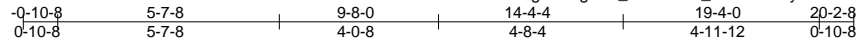
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss C11	Truss Type GABLE	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204632
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:40 2019 Page 1

ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-ohY2yvesJQ4BtFW1XOQoldXiTKvguoHyfthOzDK75



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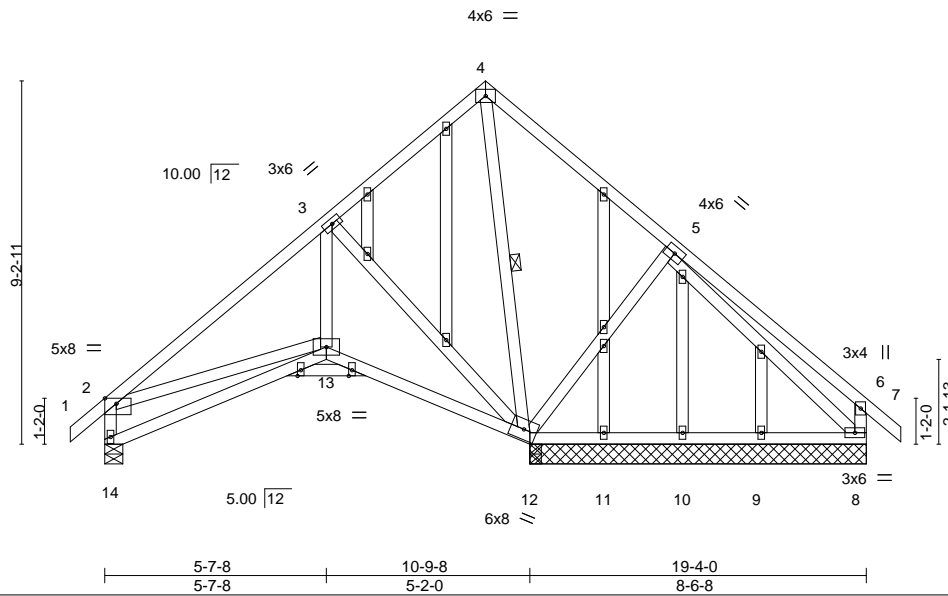


Plate Offsets (X,Y)--	[2:0-3-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.03	13-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.05	13-14	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.02	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.01	13	>999		
								Weight: 161 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 4-12
OTHERS 2-14,6-8: 2x4 SP No.2 2x4 SP No.3	

**REACTIONS.** All bearings 8-6-8 except (jt=length) 14=0-5-8.  
 (lb) - Max Horz 14=-293(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 14 except 12=-228(LC 12), 8=-146(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 11, 10, 9 except 14=390(LC 1), 12=942(LC 19), 12=932(LC 1), 8=277(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-388/61, 4-5=-51/295, 2-14=-397/194, 6-8=-296/226  
 BOT CHORD 13-14=-316/433, 12-13=-180/419  
 WEBS 3-13=-88/409, 3-12=-592/251, 4-12=-464/34, 5-12=-341/264

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable 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.
  - Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 12=228, 8=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.



May 28, 2019

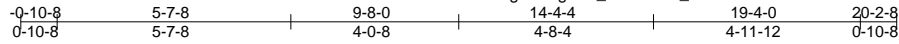
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Affiliate</small></p> <p>818 Soundside Road        Edenton, NC 27932</p>
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Job 812025	Truss C12	Truss Type Roof Special	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204633
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:42 2019 Page 1

ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-k3QJTdxuOwe8JV11dSasVDNu0V5FNb25kG8zmGzDK73



4x6 =

Scale = 1:55.5

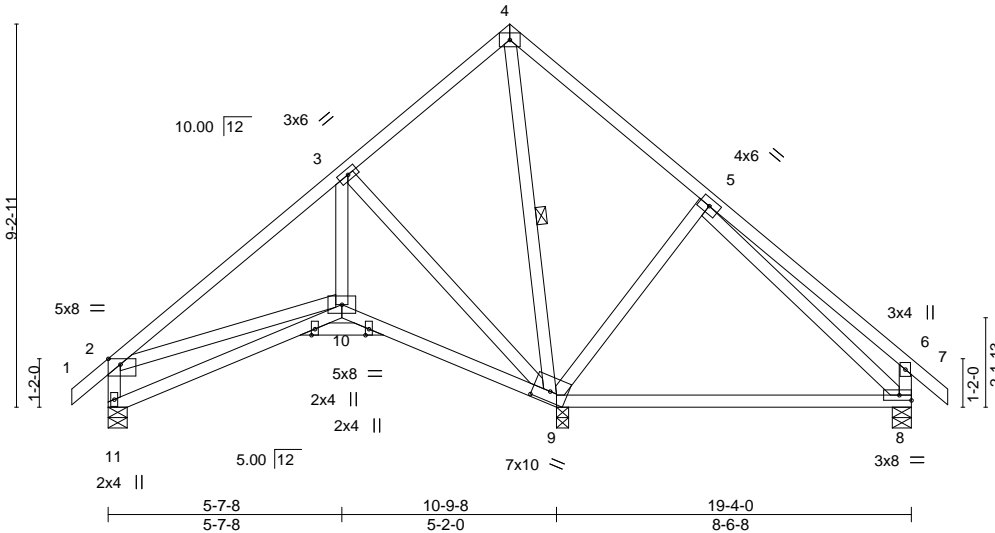


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [9:0-5-0,0-2-14]
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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) -0.13 8-9 >770 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.26 8-9 >386 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.02 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.01 10 >999 240	Weight: 132 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-9

<b>REACTIONS.</b> (lb/size)	11=396/0-5-8, 9=967/0-3-8, 8=282/0-5-8
Max Horz	11=-234(LC 10)
Max Uplift	11=-24(LC 13), 9=-57(LC 12), 8=-48(LC 13)
Max Grav	11=396(LC 1), 9=967(LC 1), 8=342(LC 24)

<b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-399/55, 4-5=-52/261, 5-6=-353/160, 2-11=-396/191, 6-8=-373/187
BOT CHORD 10-11=-245/370, 9-10=-125/383
WEBS 3-10=-49/370, 3-9=-550/147, 4-9=-422/19, 5-9=-352/243, 5-8=-47/294

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 9, 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.



May 28, 2019

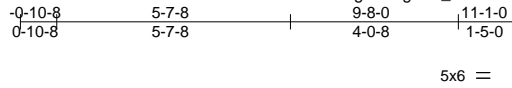
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> 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 812025	Truss C13	Truss Type Scissor	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204634
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:43 2019 Page 1

ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-CG\_hgzxW9Em?xfcDB9551Qw5hvUu61xFzwtXljzDK72



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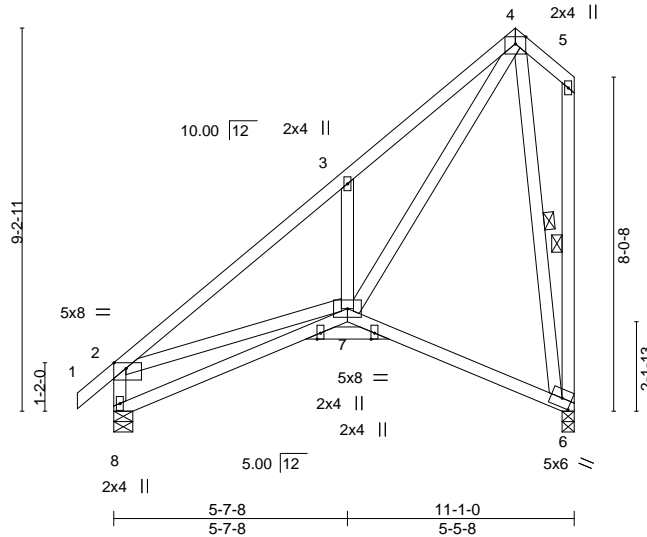


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-2-12,0-2-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.03	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.06	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.02	7	>999		
								Weight: 94 lb	FT = 20%

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

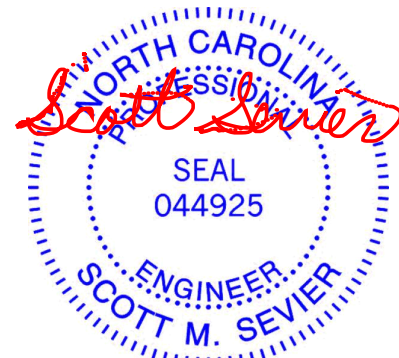
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 5-6, 4-6

**REACTIONS.** (lb/size) 8=496/0-5-8, 6=429/0-3-8  
Max Horz 8=237(LC 12)  
Max Uplift 6=122(LC 12)  
Max Grav 8=496(LC 1), 6=456(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-613/135, 3-4=-703/378, 2-8=-499/239  
BOT CHORD 7-8=-483/521  
WEBS 3-7=-419/331, 4-7=-496/887, 2-7=0/250, 4-6=-470/275

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=122.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 28, 2019

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818 Soundside Road  
Edenton, NC 27932

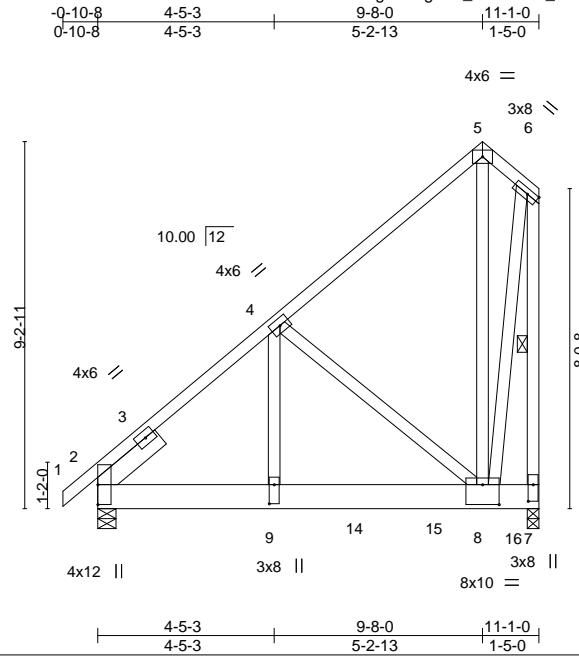


Job 812025	Truss C14	Truss Type Common Girder	Qty 1	Ply 2	H&H/Jessamine/ Job Reference (optional)	137204635
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:44 2019 Page 1

ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-gSX3tJy9wXusYoBQItcKaeTHpJnQrWNOCad4q9zDK71



Scale = 1:57.9

Plate Offsets (X,Y)--	[7:0-5-0,0-1-8], [8:0-5-0,0-6-0], [9:0-5-12,0-1-8]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.06	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.11	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.44	Horz(CT)	-0.01	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.05	8-9	>999	Weight: 225 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-7
SLIDER Left 2x6 SP No.2 1-11-12	

<b>REACTIONS.</b> (lb/size)	2=2683/0-5-8, 7=4515/0-3-8
	Max Horz 2=246(LC 8)
	Max Uplift 2=-396(LC 8), 7=-560(LC 8)

<b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3409/528, 4-5=-843/110, 5-6=-754/104, 6-7=-3856/521
BOT CHORD 2-9=-561/2547, 8-9=-561/2547
WEBS 4-9=-605/3099, 4-8=-2571/627, 5-8=-197/817, 6-8=-477/3411

- 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.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - 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=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=396, 7=560.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2094 lb down and 608 lb up at 4-6-4, 1395 lb down and 137 lb up at 6-5-8, and 1415 lb down and 134 lb up at 8-5-8, and 1396 lb down and 35 lb up at 10-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

<b>LOAD CASE(S)</b> Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-6=-60, 7-10=-20



Continued on page 2

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY <b>TRENCO</b> A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 812025	Truss C14	Truss Type Common Girder	Qty 1	Ply <b>2</b>	H&H/Jessamine/ Job Reference (optional)	I37204635
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:44 2019 Page 2  
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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 9=-2094(B) 14=-1390(B) 15=-1390(B) 16=-1396(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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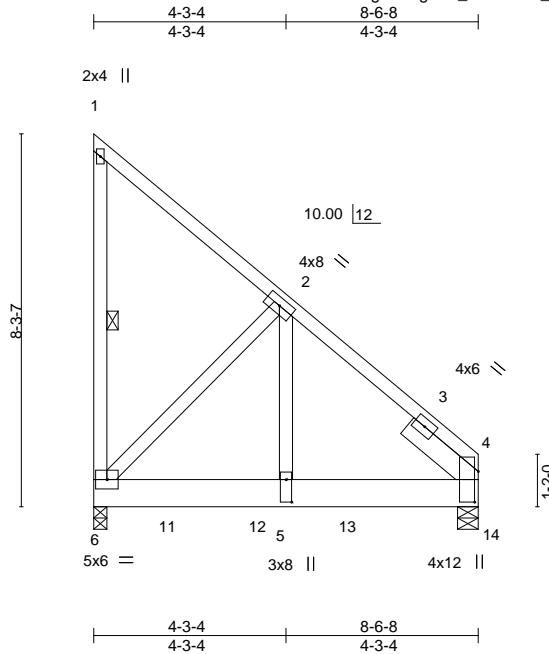
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss C15	Truss Type Roof Special Girder	Qty 1	Ply 2	H&H/Jessamine/ Job Reference (optional)	137204636
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:45 2019 Page 1

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Scale = 1:51.2

Plate Offsets (X,Y)--	[4:0-8-3,0-1-0], [5:0-6-0,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.02 5-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.04 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.46	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.01 5-6 >999 240	Weight: 145 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x8 SP DSS  
 WEBS 2x4 SP No.2  
 SLIDER Right 2x6 SP No.2 1-11-12

**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.  
 WEBS 1 Row at midpt 1-6

**REACTIONS.** (lb/size) 6=3418/0-3-8, 4=3933/0-5-8  
 Max Horz 6=-216(LC 9)  
 Max Uplift 6=-288(LC 9), 4=-98(LC 9)

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

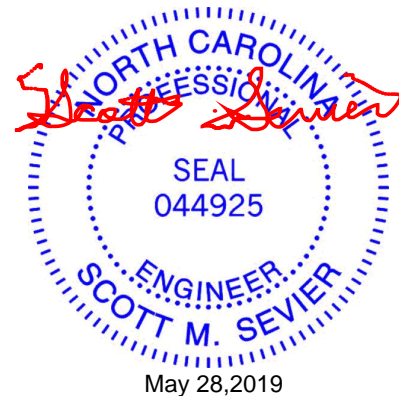
TOP CHORD 2-4=-2876/88  
 BOT CHORD 5-6=-42/2165, 4-5=-42/2165  
 WEBS 2-6=-3086/276, 2-5=-174/3782

**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.  
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=288.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1670 lb down and 90 lb up at 1-8-0, 1670 lb down and 90 lb up at 3-8-0, and 1670 lb down and 90 lb up at 5-8-0, and 1671 lb down and 89 lb up at 7-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-60, 6-7=-20  
 Concentrated Loads (lb)  
 Vert: 11=-1670(B) 12=-1670(B) 13=-1670(B) 14=-1671(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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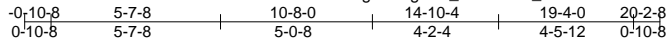
818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss C21	Truss Type GABLE	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204637
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:47 2019 Page 1

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4x6 =

Scale = 1:76.5

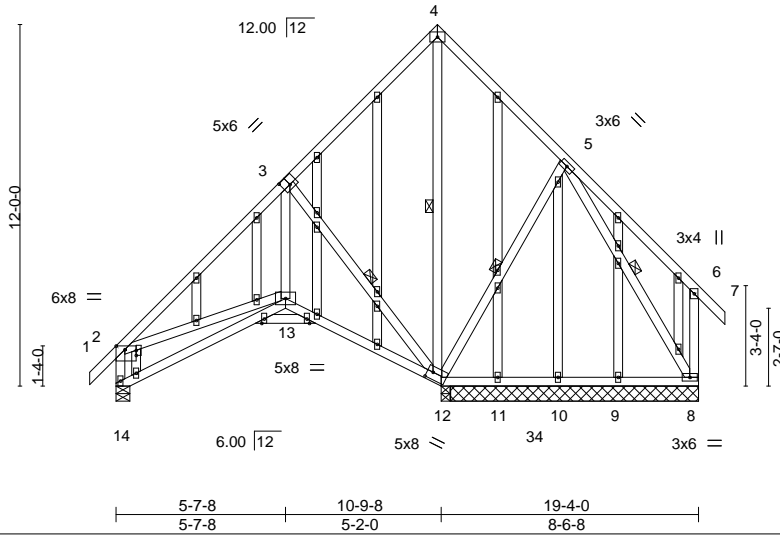


Plate Offsets (X,Y)--	[2:0-2-0,0-0-0], [2:0-3-8,Edge], [3:0-3-0,0-3-4], [12:0-2-4,0-2-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.03	13-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.07	13-14	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.03	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.01	13	>999		
								Weight: 216 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 3-12, 4-12, 5-12, 5-8
OTHERS 2-14,6-8: 2x4 SP No.2	
2x4 SP No.3	

**REACTIONS.** All bearings 8-2-12 except (jt=length) 14=0-5-8, 12=0-3-8.  
 (lb) - Max Horz 14=406(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 14, 8 except 12=312(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 11, 10, 9 except 14=440(LC 20), 8=279(LC 24), 12=990(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-385/41, 3-4=-182/300, 5-6=-260/284, 2-14=-392/187, 6-8=-320/270  
 BOT CHORD 13-14=-460/514, 12-13=-311/451  
 WEBS 3-13=-211/501, 3-12=-653/338, 4-12=-495/99, 5-12=-354/305

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8 except (jt=lb) 12=312.



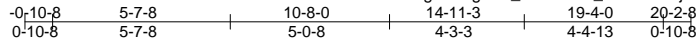
May 28, 2019

Job 812025	Truss C22	Truss Type Roof Special	Qty 4	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204638
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:48 2019 Page 1

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4x6 =

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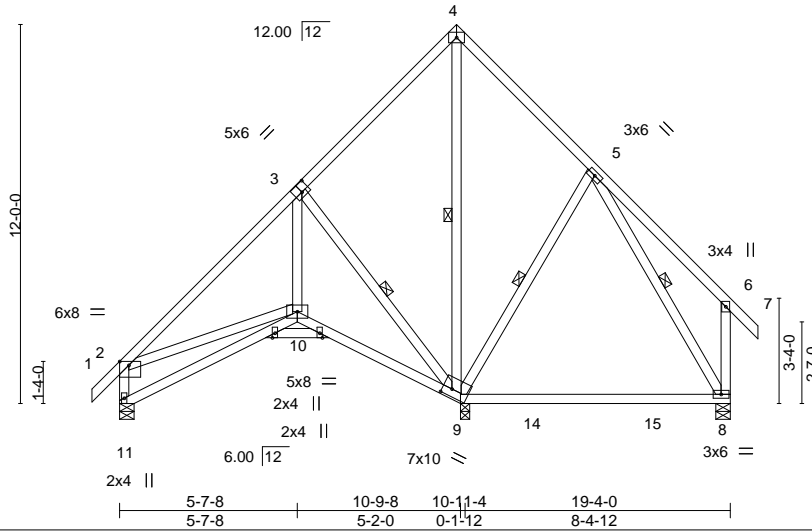


Plate Offsets (X,Y)-- [2-0-3-8,Edge], [3-0-3-0,0-3-4], [9-0-3-8,0-2-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.22	8-9	>457	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.37	8-9	>269		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.01	10	>999		
								Weight: 152 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.1 *Except* 12-13: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-9, 4-9, 5-9, 5-8

**REACTIONS.** (lb/size) 11=397/0-5-8, 9=965/0-3-8, 8=283/0-5-8  
 Max Horz 11=326(LC 11)  
 Max Uplift 11=-42(LC 8), 9=-105(LC 12), 8=-22(LC 8)  
 Max Grav 11=427(LC 20), 9=1058(LC 19), 8=366(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-389/38, 3-4=-151/252, 5-6=-286/264, 2-11=-390/184, 6-8=-337/253  
 BOT CHORD 10-11=-365/428, 9-10=-244/397  
 WEBS 3-10=-148/429, 3-9=-622/283, 4-9=-439/57, 5-9=-358/287

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 8 except (jt=lb) 9=105.



May 28, 2019

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

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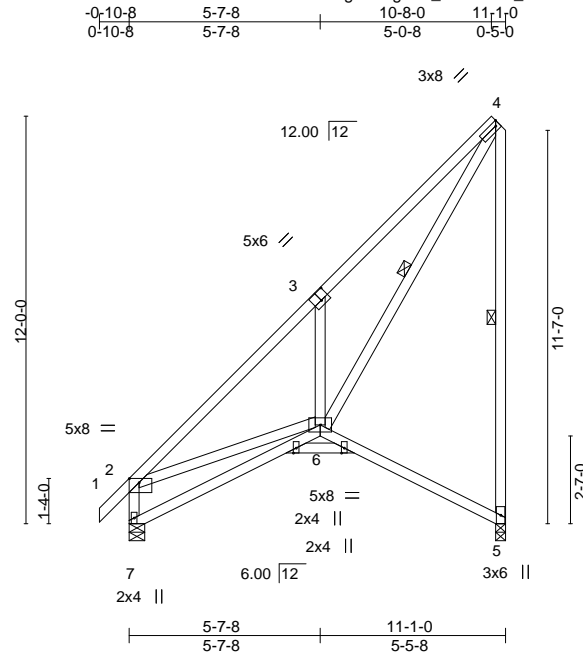
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss C23	Truss Type Scissor	Qty 6	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204639
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Builders First Source, Sumter SC

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Scale = 1:67.8

Plate Offsets (X,Y)--	[2:0-3-8,Edge], [3:0-3-0,0-3-4]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.03 5-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.07 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.04 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.03 6 >999 240	Weight: 94 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 4-6, 4-5
4-5: 2x4 SP No.2	

**REACTIONS.** (lb/size) 7=496/0-5-8, 5=429/0-3-8  
 Max Horz 7=349(LC 12)  
 Max Uplift 5=-244(LC 12)  
 Max Grav 7=496(LC 1), 5=502(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-588/21, 3-4=-690/388, 2-7=-489/184, 4-5=-605/439  
 BOT CHORD 6-7=-686/661  
 WEBS 3-6=-549/463, 4-6=-721/1074, 2-6=-21/253

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) Bearing at joint(s) 7, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=244.
  - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 28, 2019

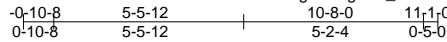
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Affiliate</small></p> <p>818 Soundside Road        Edenton, NC 27932</p>
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Job 812025	Truss C24	Truss Type Common Girder	Qty 2	Ply 2	H&H/Jessamine/ Job Reference (optional)	137204640
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:50 2019 Page 1

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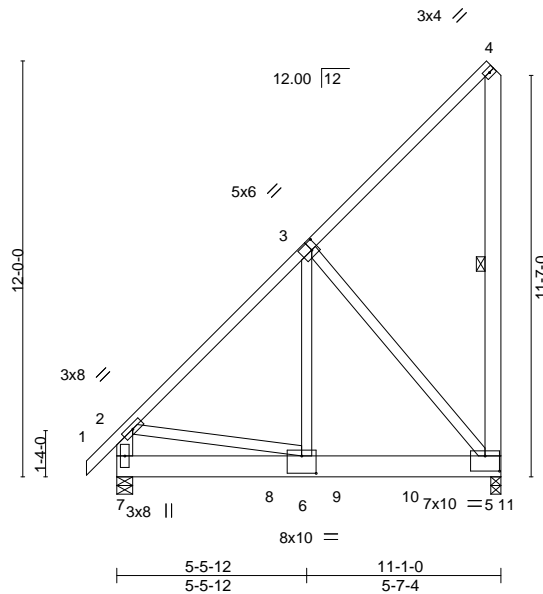


Plate Offsets (X,Y)--	[3:0-2-4,0-3-0], [5:0-5-0,0-5-4], [6:0-5-0,0-6-0]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.04	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.07	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.03	5-6	>999	Weight: 229 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 2-7,4-5: 2x6 SP No.2	WEBS 1 Row at midpt 4-5

**REACTIONS.** (lb/size) 7=2656/0-5-8, 5=4485/0-3-8  
 Max Horz 7=347(LC 8)  
 Max Uplift 7=-580(LC 4), 5=-929(LC 8)  
 Max Grav 7=2656(LC 1), 5=4491(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2833/618, 2-7=-2469/452  
 BOT CHORD 6-7=-523/457, 5-6=-600/1899  
 WEBS 3-6=-1018/3803, 2-6=-413/1629, 3-5=-2918/923

- 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: 2x8 - 2 rows staggered at 0-5-0 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.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=580, 5=929.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2047 lb down and 1049 lb up at 4-6-4, 1400 lb down and 135 lb up at 6-5-8, and 1474 lb down and 129 lb up at 8-5-8, and 1474 lb down and 117 lb up at 10-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-4=-60, 5-7=-20



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Continued on page 2

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

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

**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss C24	Truss Type Common Girder	Qty 2	Ply <b>2</b>	H&H/Jessamine/ Job Reference (optional)	I37204640
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:50 2019 Page 2  
ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-VcvK8M1vVNe?Gjea58jkqvjLjkq?F9THaW4O1pzDK6x

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 8=-2047(B) 9=-1390(B) 10=-1390(B) 11=-1396(B)

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818 Soundside Road  
Edenton, NC 27932

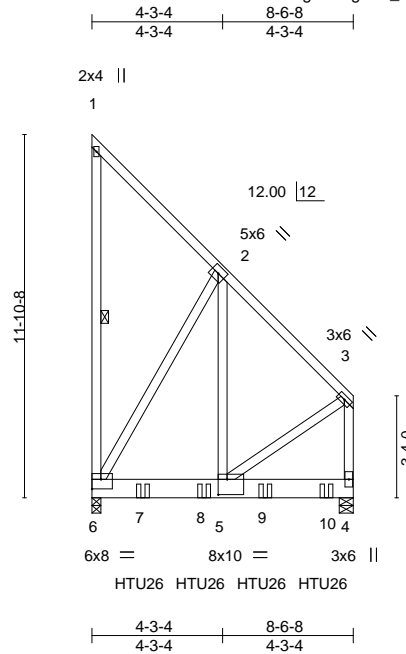


Job 812025	Truss C25	Truss Type Roof Special Girder	Qty 2	Ply 2	H&H/Jessamine/ Job Reference (optional)	137204641
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:51 2019 Page 1

ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-zoTiLi2YGhnsutDmfrEz2M6FXa8CF\_eAQpApyZFzDK6w



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Plate Offsets (X,Y)--	[5:0-3-8,0-6-0], [6:Edge,0-3-12]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.02 4-5 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.04 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.63	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.01 4-5 >999 240	Weight: 186 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x8 SP DSS  
 WEBS 2x4 SP No.2

**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.  
 WEBS 1 Row at midpt 1-6

**REACTIONS.** (lb/size) 4=3993/0-5-8, 6=3349/0-3-8  
 Max Horz 6=-237(LC 4)  
 Max Uplift 4=-90(LC 5), 6=-392(LC 9)

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

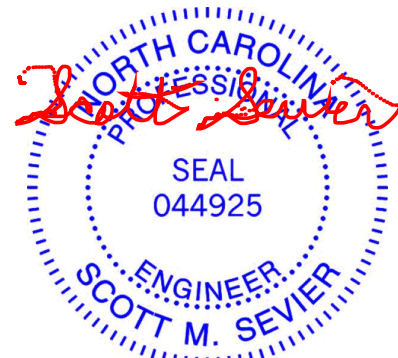
TOP CHORD 2-3=-1899/70, 3-4=-2291/35  
 BOT CHORD 5-6=-128/1289  
 WEBS 2-6=-2555/322, 2-5=-197/3209, 3-5=-115/1531

**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.  
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=392.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-8-0 from the left end to 7-8-0 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 4-6=-20  
 Concentrated Loads (lb)  
 Vert: 7=-1670(B) 8=-1670(B) 9=-1670(B) 10=-1672(B)



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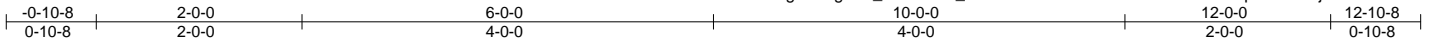
818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss CP01	Truss Type Hip Girder	Qty 5	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204642
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ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-vBaTmO3ool1a7BN8mGGRRXLpKxrfSe2jGT13d8zDK6u



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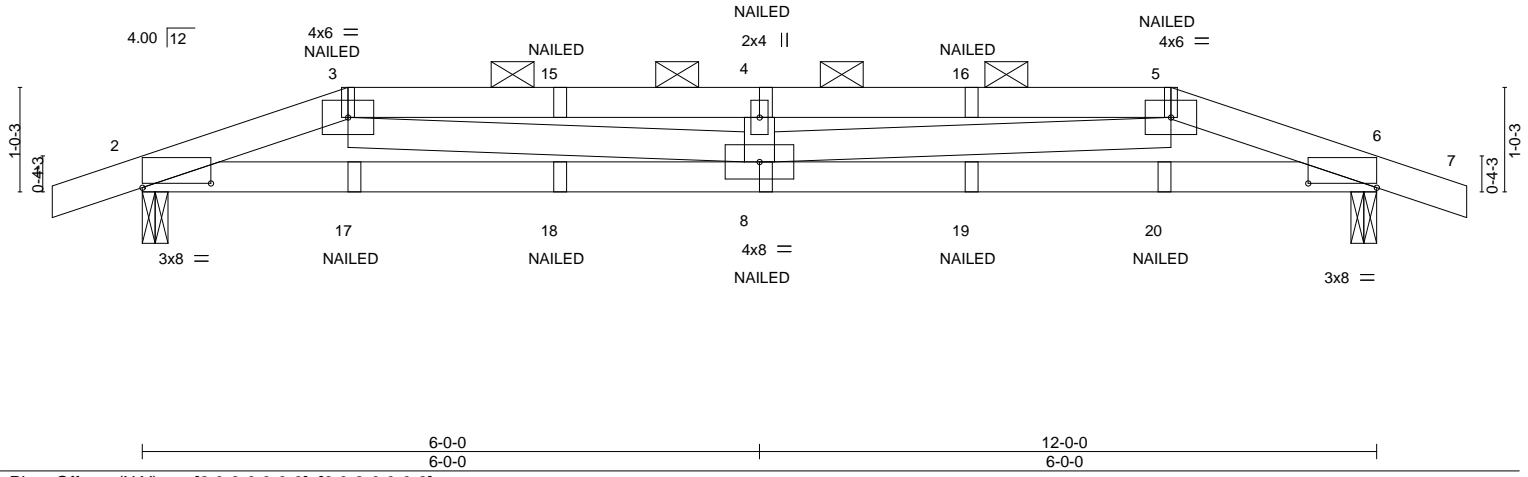


Plate Offsets (X,Y)-- [2:0-8-0,0-0-8], [6:0-8-0,0-0-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.09	8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.18	8	>804		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.22	Horz(CT)	0.02	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.13	8	>999		
								Weight: 51 lb	FT = 20%

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

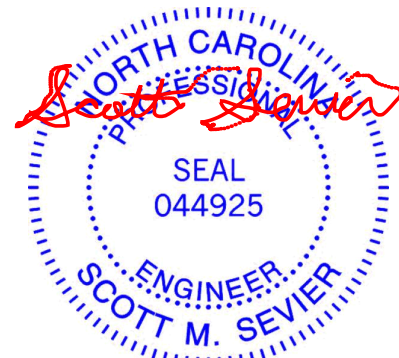
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-3-5 oc purlins, except 2-0-0 oc purlins (3-9-9 max.): 3-5.  
 BOT CHORD Rigid ceiling directly applied or 8-7-13 oc bracing.

**REACTIONS.** (lb/size) 2=549/0-3-0, 6=549/0-3-0  
 Max Horz 2=14(LC 4)  
 Max Uplift 2=-228(LC 4), 6=-228(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1211/492, 3-4=-2022/832, 4-5=-2022/832, 5-6=-1211/492  
 BOT CHORD 2-8=-456/1156, 6-8=-458/1157  
 WEBS 3-8=-361/904, 5-8=-360/904

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; porch 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 100 lb uplift at joint(s) except (jt=lb) 2=228, 6=228.
  - 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 Nails (0.148" x 3") 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).
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-5=-60, 5-7=-60, 9-12=-20  
 Concentrated Loads (lb)  
 Vert: 8=-6(B) 17=-6(B) 18=-6(B) 19=-6(B) 20=-6(B)



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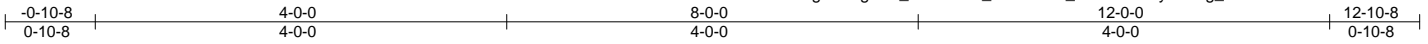
818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss CP02	Truss Type Hip	Qty 5	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204643
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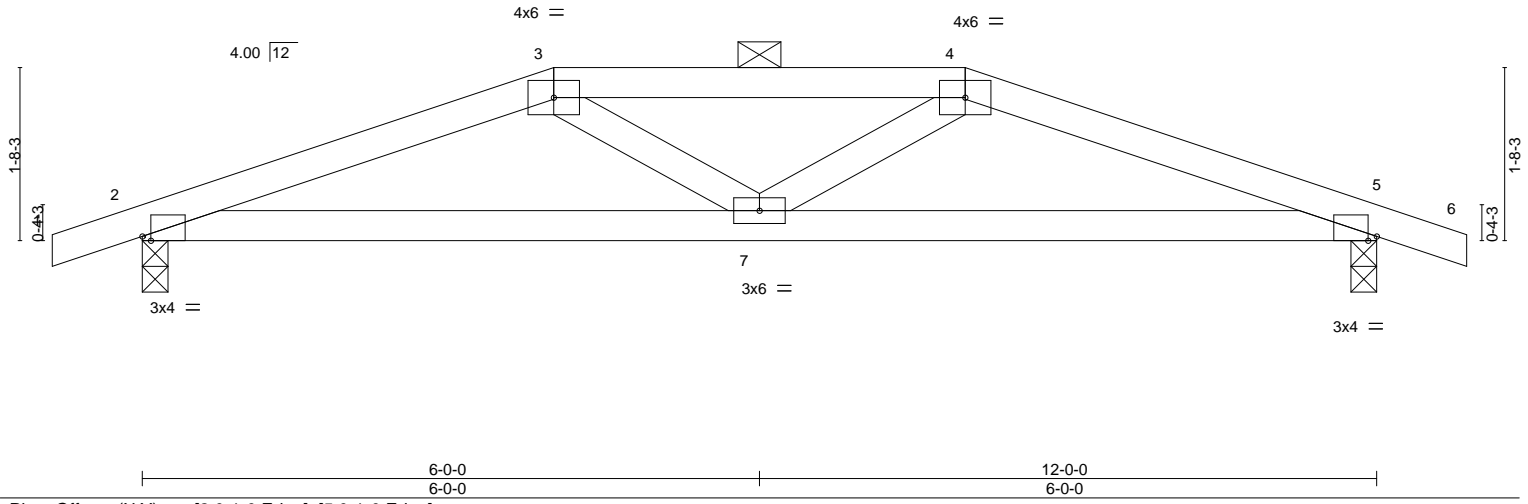


Plate Offsets (X,Y)--	[2:0-1-0,Edge], [5:0-1-0,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) 0.08 7-13 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.07 7-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.02 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 46 lb	FT = 20%

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

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

**REACTIONS.** (lb/size) 2=533/0-3-0, 5=532/0-3-0  
Max Horz 2=-31(LC 13)  
Max Uplift 2=-281(LC 8), 5=-281(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-989/1049, 3-4=-1017/1236, 4-5=-989/1049  
BOT CHORD 2-7=-940/922, 5-7=-943/922  
WEBS 3-7=-254/214, 4-7=-254/214

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=281, 5=281.
  - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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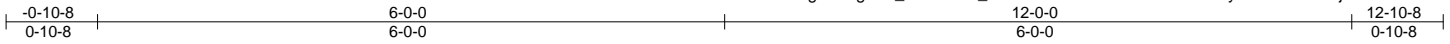
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss CP03	Truss Type Common	Qty 10	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204644
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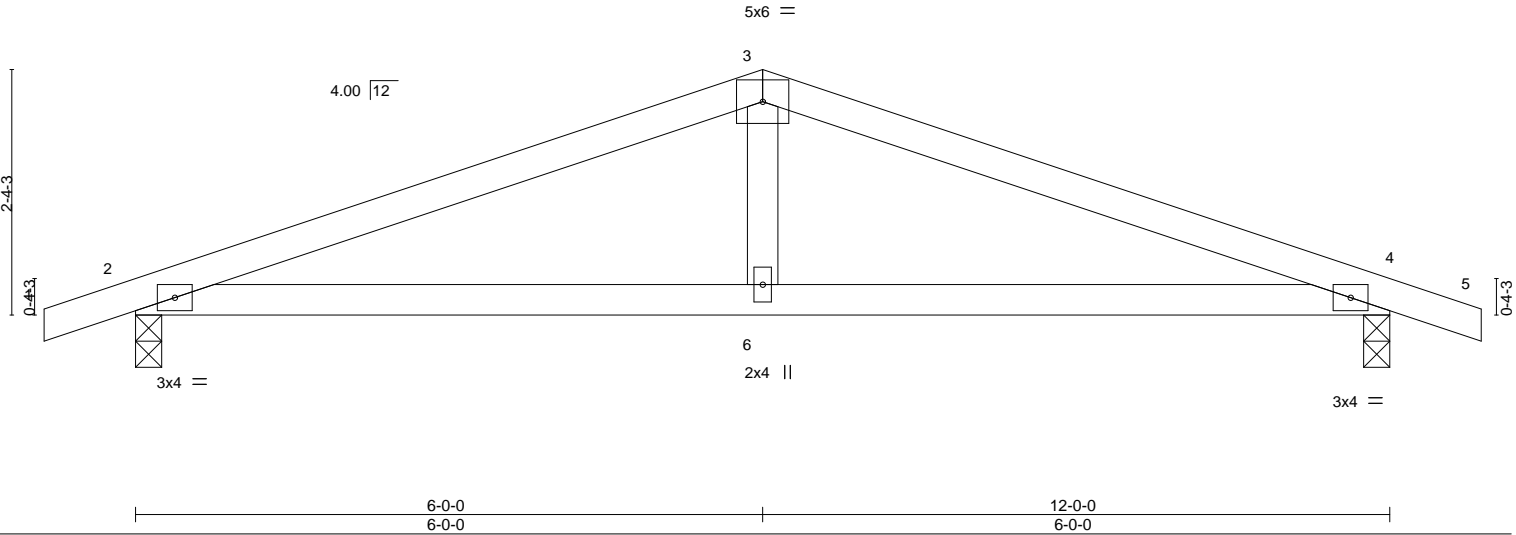
Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:55 2019 Page 1

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Scale = 1:22.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	0.09 6-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.09 6-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS					Weight: 42 lb	FT = 20%

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

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

**REACTIONS.** (lb/size) 2=533/0-3-0, 4=532/0-3-0  
 Max Horz 2=-44(LC 13)  
 Max Uplift 2=-268(LC 8), 4=-268(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-889/982, 3-4=-889/982  
 BOT CHORD 2-6=-857/813, 4-6=-857/813  
 WEBS 3-6=-330/265

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=268, 4=268.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 28, 2019

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

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



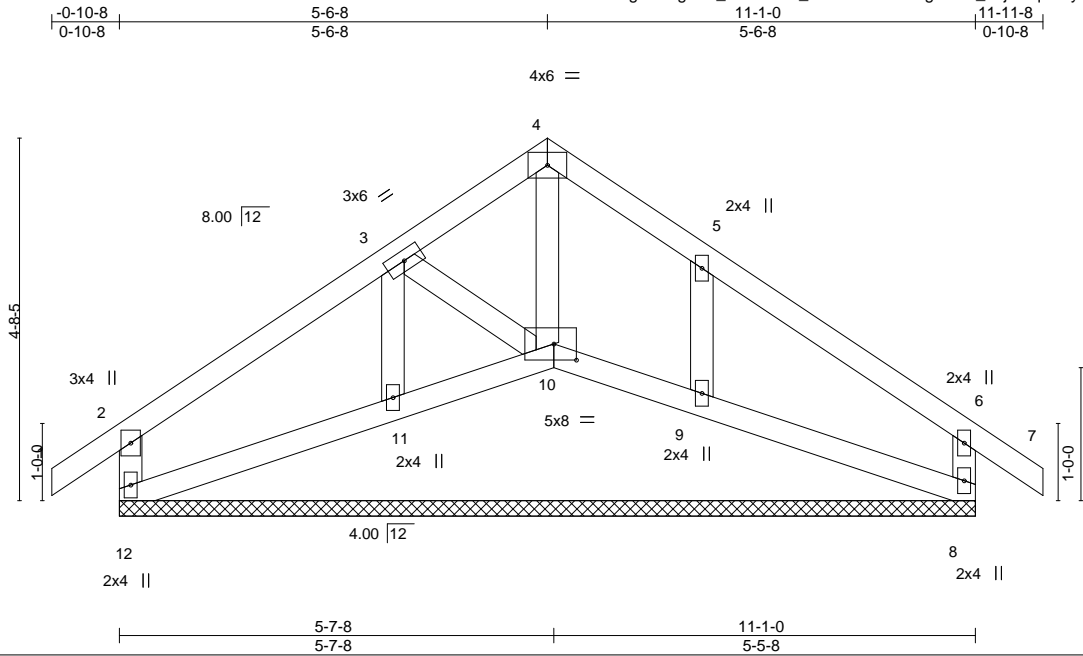
818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss D01	Truss Type Scissor Supported Gable	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204645
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:56 2019 Page 1

ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-KmGbPQ6g5DP9\_e6jSOq83AyOI9y7f2U9yRXjESzDK6r



Scale = 1:29.8

Plate Offsets (X,Y)--	[10:0-3-8,0-2-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) 0.00 6 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) 0.00 7 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 55 lb	FT = 20%

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

**REACTIONS.** All bearings 11-1-0.  
 (lb) - Max Horz 12=-157(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 11 except 10=-179(LC 11), 9=-130(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 12, 8 except 10=263(LC 8), 11=278(LC 20), 9=278(LC 20)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Truss to be fully sheathed from 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8, 11 except (jt=lb) 10=179, 9=130.
  - 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11, 9.



May 28, 2019

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Affiliate</small></p> <p>818 Soundside Road        Edenton, NC 27932</p>
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Job 812025	Truss D11	Truss Type GABLE	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204646
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Builders First Source, Sumter SC

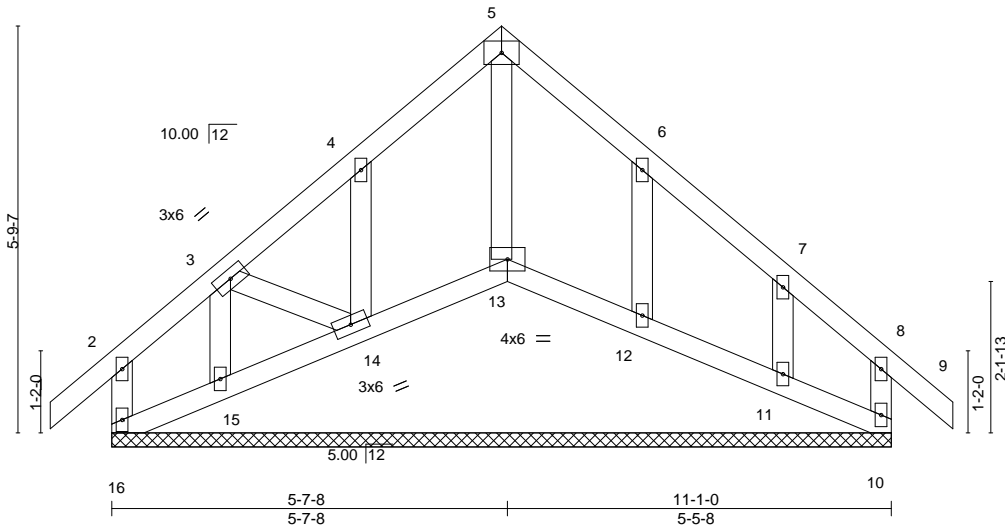
8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:57 2019 Page 1

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4x6 =

Scale = 1:32.8



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	9	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 64 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 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 6-0-0 oc bracing.

**REACTIONS.**

All bearings 11-1-0.  
 (lb) - Max Horz 16=-196(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 16, 13, 10, 15 except 14=-179(LC 12), 12=-102(LC 13), 11=-120(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 15, 12, 11 except 13=254(LC 13), 14=274(LC 19)

**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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 13, 10, 15 except (jt=lb) 14=179, 12=102, 11=120.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 13, 14, 15, 12, 11.



May 28, 2019

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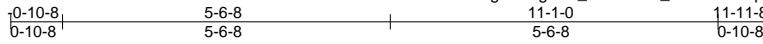


818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss D21	Truss Type GABLE	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204647
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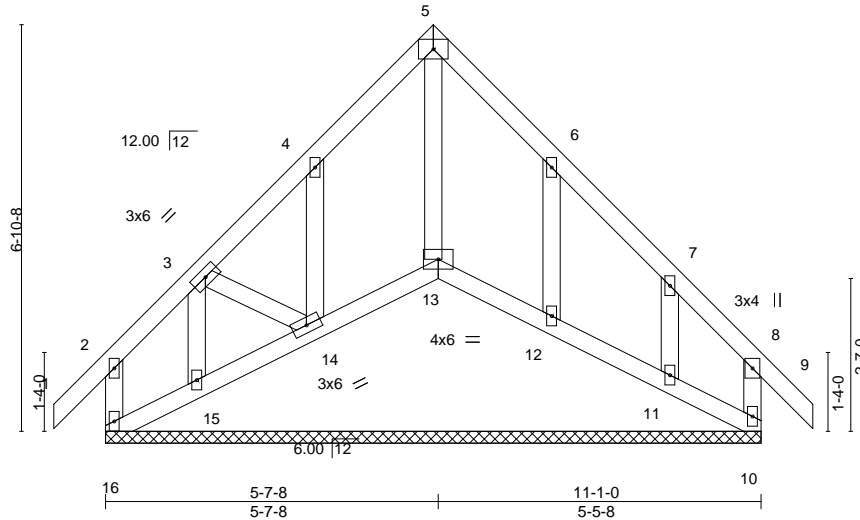
Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:58 2019 Page 1  
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4x6 =

Scale = 1:39.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL) -0.00	9	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT) -0.00	9	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT) -0.00	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S				Weight: 71 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

All bearings 11-1-0.  
(lb) - Max Horz 16=-234(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 10 except 16=-111(LC 13), 13=-131(LC 11), 14=-239(LC 12), 15=-124(LC 8), 12=-126(LC 13), 11=-158(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 15, 12, 11 except 13=376(LC 13), 14=318(LC 19)

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

TOP CHORD 4-5=-243/293, 5-6=-244/294  
WEBS 5-13=-339/216

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 16=111, 13=131, 14=239, 15=124, 12=126, 11=158.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 13, 14, 15, 12, 11.



May 28, 2019

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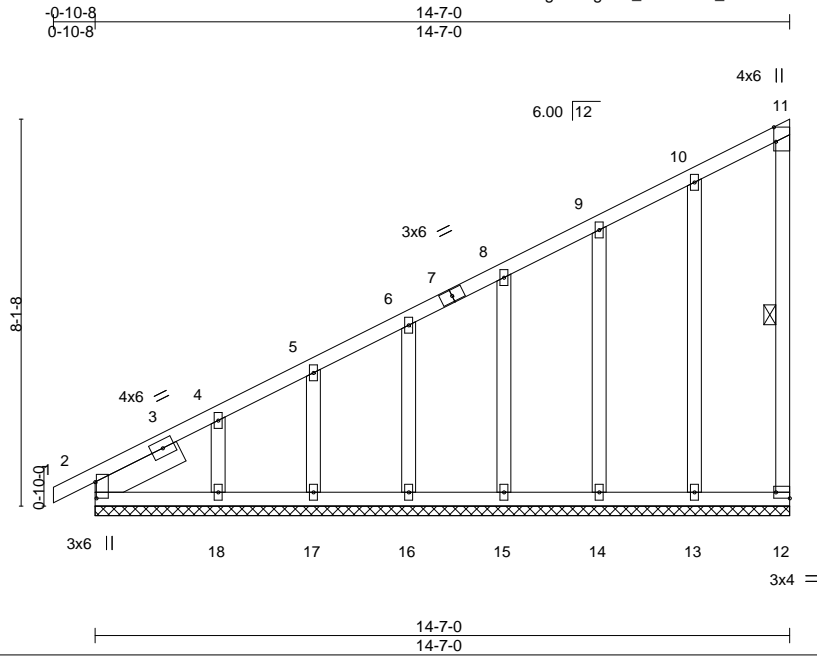


818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss E01	Truss Type GABLE	Qty 6	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204648
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:52:59 2019 Page 1  
ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-kLxk1R8ZN8nr6q17WNrhoarGMysNxbePINrmzDK6o



Scale: 1/4"=1'

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

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 0.21	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 100 lb	FT = 20%

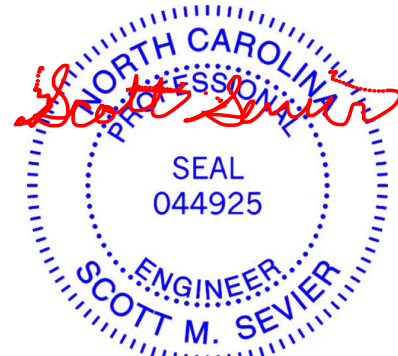
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2  
OTHERS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 2-0-0

**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.  
WEBS 1 Row at midpt 11-12

**REACTIONS.** All bearings 14-7-0.  
(lb) - Max Horz 2=349(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 13, 14, 15, 16, 17 except 18=140(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 12, 2, 13, 14, 15, 16, 17, 18

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-550/287, 4-5=-413/232, 5-6=-365/217, 6-8=-305/196

- NOTES-** (10)
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 13, 14, 15, 16, 17 except (jt=lb) 18=140.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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818 Soundside Road  
Edenton, NC 27932



Job 812025	Truss E02	Truss Type Monopitch	Qty 18	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204649
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:00 2019 Page 1

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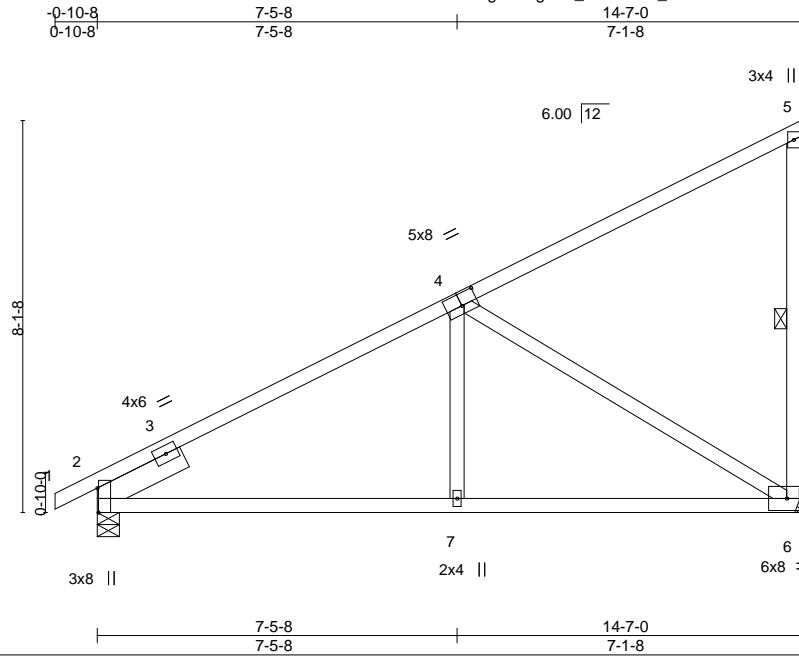


Plate Offsets (X,Y)-- [2:0-6-1,Edge], [4:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.48	Vert(LL) -0.06 6-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.84	Vert(CT) -0.11 6-7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) -0.02 2 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 7-10 >999 240	Weight: 81 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-6
SLIDER Left 2x6 SP No.2 2-0-0	

**REACTIONS.** (lb/size) 2=632/0-5-8, 6=576/Mechanical  
 Max Horz 2=337(LC 12)  
 Max Uplift 2=-79(LC 12), 6=-239(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-566/72  
 BOT CHORD 2-7=-330/580, 6-7=-331/579  
 WEBS 4-7=0/313, 4-6=-661/381

- NOTES-** (8)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) All bearings are assumed to be User Defined crushing capacity of 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) 2 except (jt=lb) 6=239.
  - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



May 28, 2019

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

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.

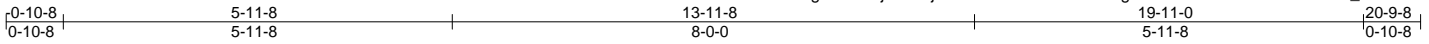
**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss G01	Truss Type GABLE	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204650
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:02 2019 Page 1  
ID:NgWZiw6hjSF7C2j7uRlaKrz9M0e-8vdtfTARg39lIZZtofxYJRCR8Z0z3l22LN\_1S6zDK6l



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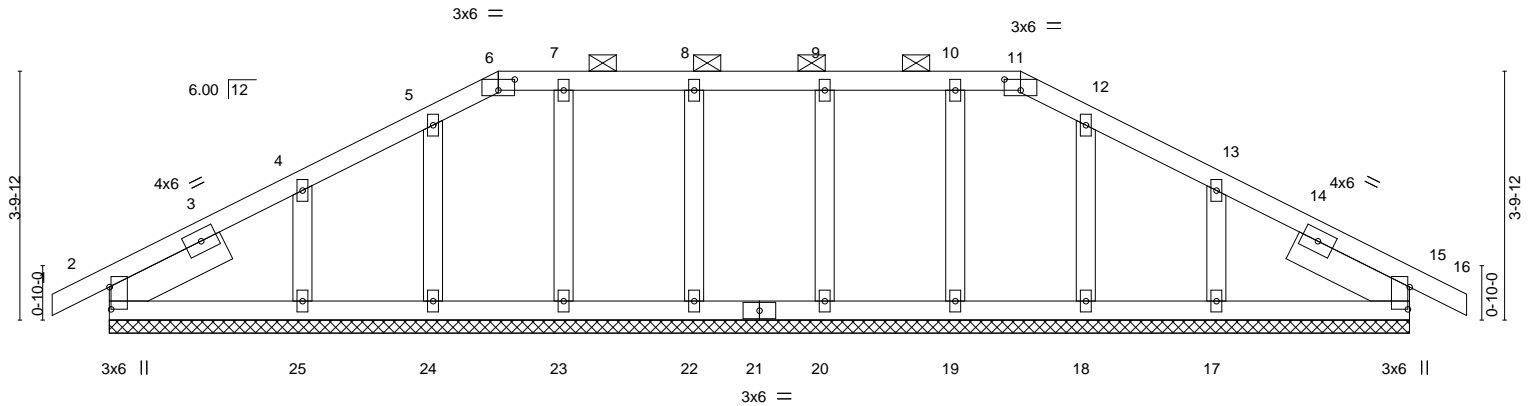


Plate Offsets (X,Y)--	[2:0-4-1,0-0-5], [6:0-3-0,0-2-0], [11:0-3-0,0-2-0], [15:0-4-1,0-0-5]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	0.00	15	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	0.00	15	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 107 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 6-11.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

**REACTIONS.** All bearings 19-11-0.  
 (lb) - Max Horz 2=44(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 24, 25, 20, 19, 18, 17, 15  
 Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 24, 25, 20, 19, 18, 17, 15

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 23, 24, 25, 20, 19, 18, 17, 15.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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.



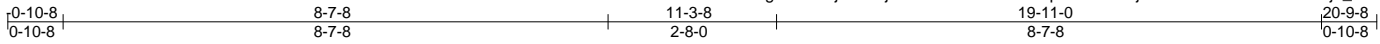
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss G02	Truss Type HIP	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204651
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:03 2019 Page 1

ID:NgWZiw6hjSf7C2j7uRlaKrz9M0e-d6BFtpB3RNH9Kj83MMSnrelXxzAloBTBZ1ja\_YzDK6k



Scale = 1:36.5

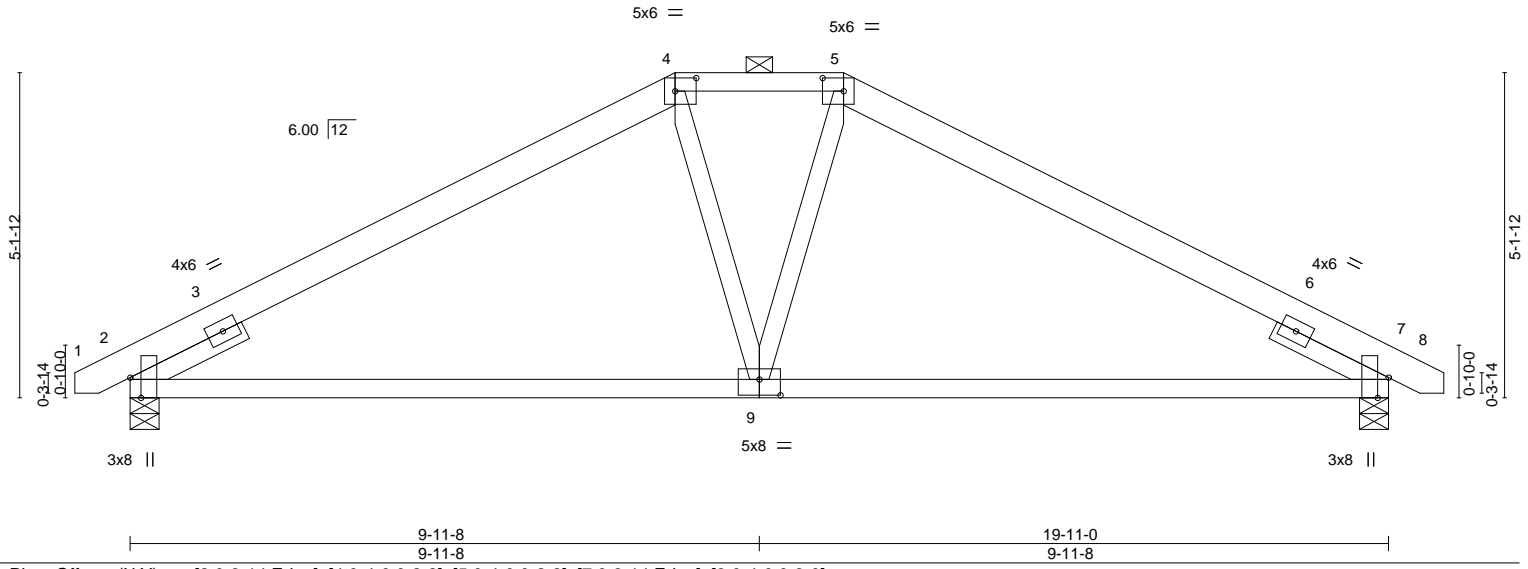


Plate Offsets (X,Y)-- [2:0-3-14,Edge], [4:0-4-0,0-2-8], [5:0-4-0,0-2-8], [7:0-3-14,Edge], [9:0-4-0,0-3-0]

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 0.39	Vert(LL)	-0.11	9-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.25	9-12	>967		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.02	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.05	9-12	>999	Weight: 104 lb	FT = 20%

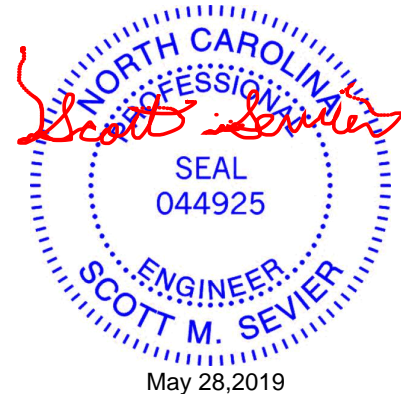
**LUMBER-**  
 TOP CHORD 2x6 SP No.2 \*Except\*  
 4-5: 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

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

**REACTIONS.** (lb/size) 2=838/0-5-8, 7=838/0-5-8  
 Max Horz 2=59(LC 11)  
 Max Uplift 2=-35(LC 12), 7=-35(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-945/337, 4-5=-870/367, 5-7=-945/337  
 BOT CHORD 2-9=-149/840, 7-9=-149/840

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



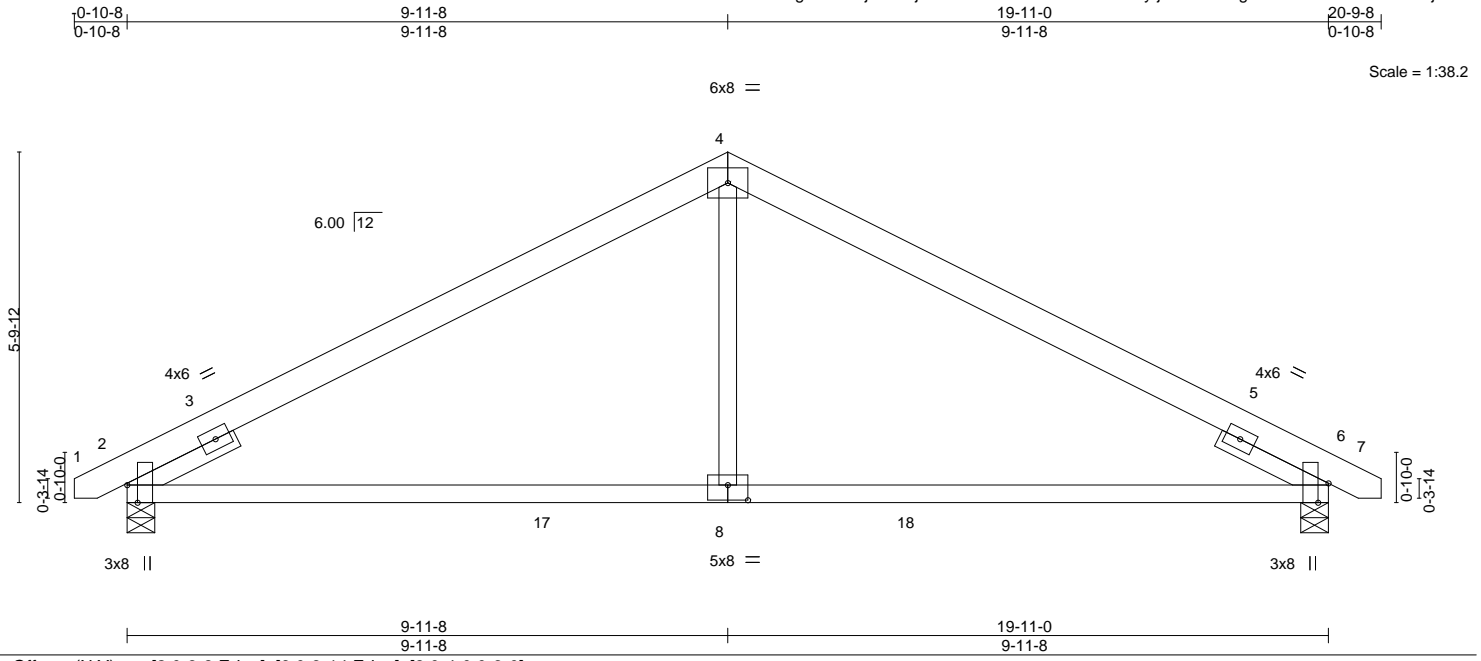
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
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ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss G03	Truss Type COMMON	Qty 4	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204652
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:04 2019 Page 1  
ID:NgWZiw6hjSf7C2j7uRlaKrz9M0e-5lld49ChChP0ytjGw4z0Oslg?NWzXdlLohT8W?zDK6j



Scale = 1:38.2

Plate Offsets (X,Y)--	[2:0-3-8,Edge], [6:0-3-14,Edge], [8:0-4-0,0-3-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) -0.11 8-15 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(CT) -0.25 8-15 >968 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.03 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.07 8-11 >999 240	Weight: 100 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
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.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

**REACTIONS.** (lb/size) 2=838/0-5-8, 6=838/0-5-8  
 Max Horz 2=66(LC 11)  
 Max Uplift 2=-41(LC 12), 6=-41(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1076/353, 4-6=-1076/353  
 BOT CHORD 2-8=-159/903, 6-8=-159/903  
 WEBS 4-8=0/420

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



May 28, 2019

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></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 <b>ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> 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 812025	Truss J01	Truss Type Monopitch	Qty 34	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204653
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:05 2019 Page 1  
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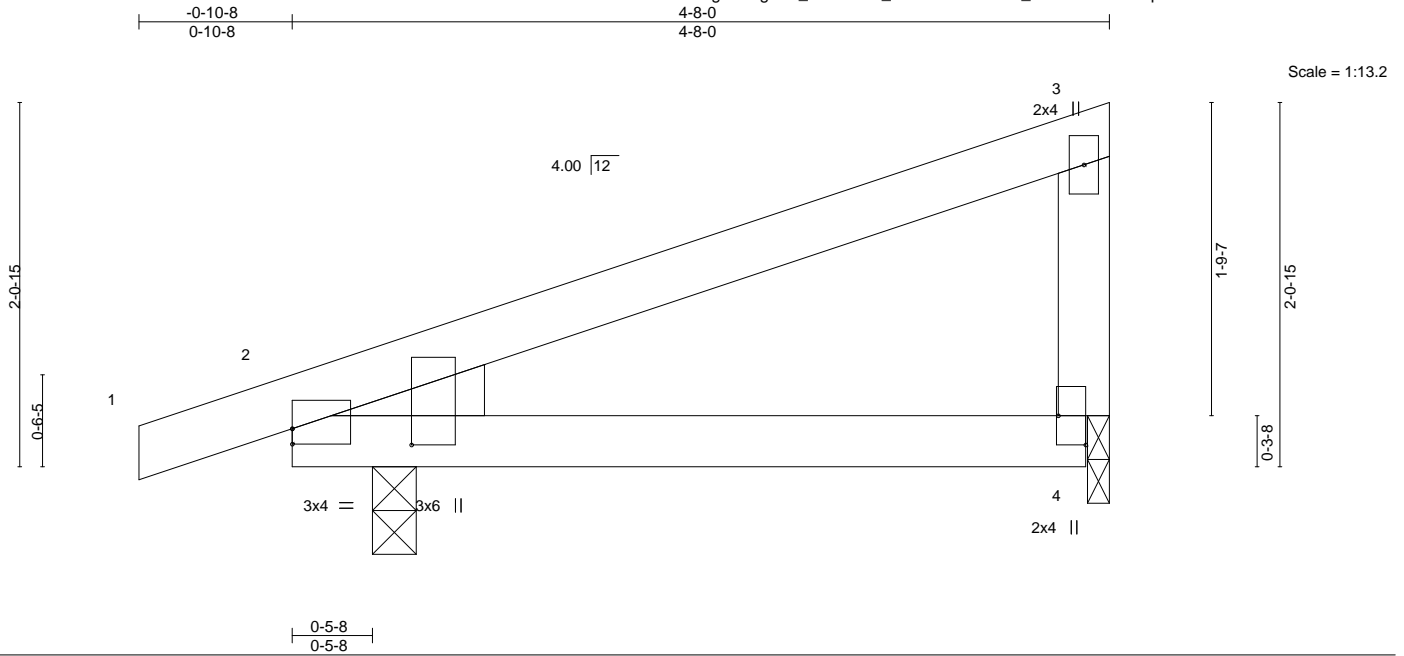


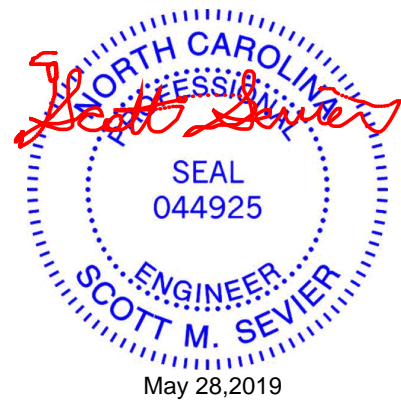
Plate Offsets (X,Y)--	[2:0-0-0,0-1-1], [2:0-1-2,0-8-3], [4:Edge,0-1-14]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) 0.03 4-9 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0.02 4-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 19 lb	FT = 20%

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

**REACTIONS.** (lb/size) 2=265/0-3-0, 4=149/0-1-8  
 Max Horz 2=84(LC 8)  
 Max Uplift 2=-139(LC 8), 4=-91(LC 8)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=139.
  - 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.



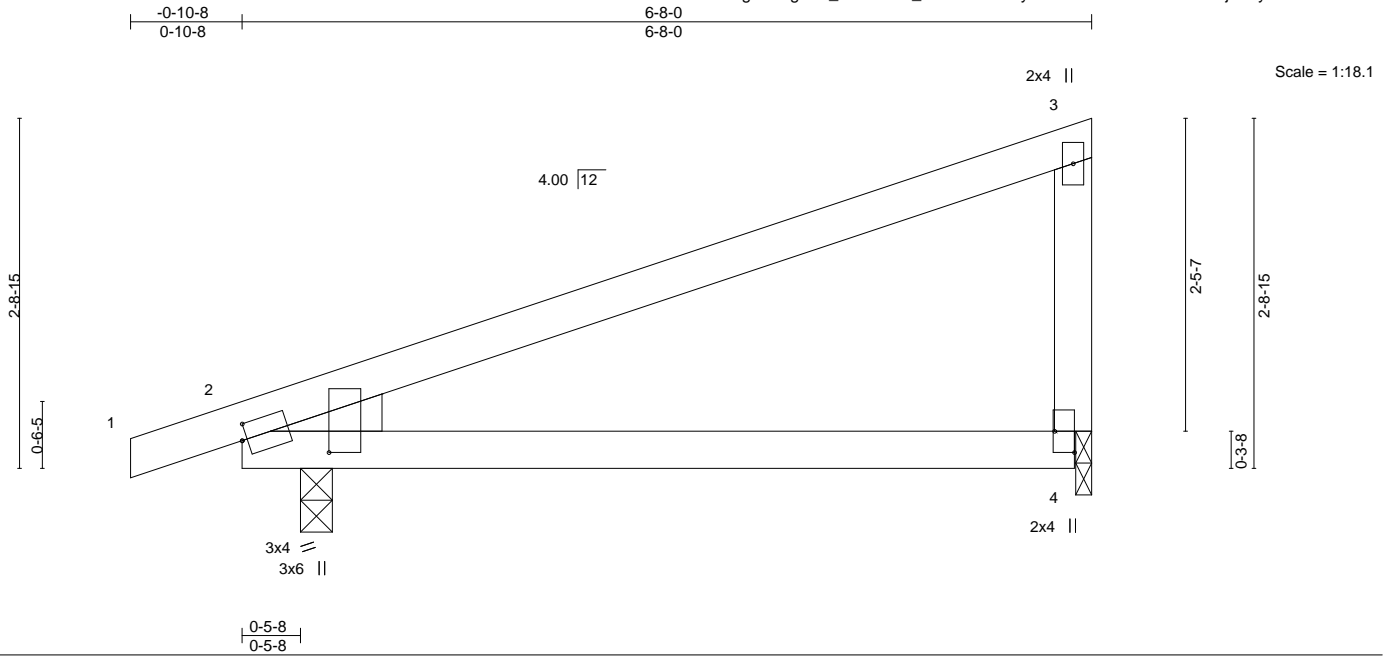
May 28, 2019

Job 812025	Truss J02	Truss Type Monopitch	Qty 24	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204654
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8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:06 2019 Page 1

ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-1htNVrDyKlfbBte1V?UTHN0fBis?ZjdF?yFbtzDK6h



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) 0.17 4-9 >461 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.12 4-9 >652 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) -0.02 2 n/a n/a		
	Code IRC2015/TPI2014			Weight: 26 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

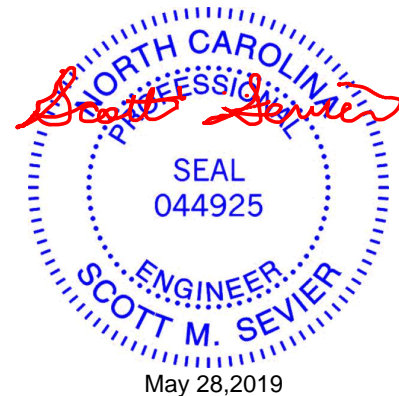
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 2=341/0-3-0, 4=233/0-1-8  
 Max Horz 2=114(LC 8)  
 Max Uplift 2=-172(LC 8), 4=-140(LC 8)

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

**NOTES-**

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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 and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=172, 4=140.
- 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.



**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 812025	Truss J03	Truss Type Monopitch	Qty 6	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204655
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:06 2019 Page 1

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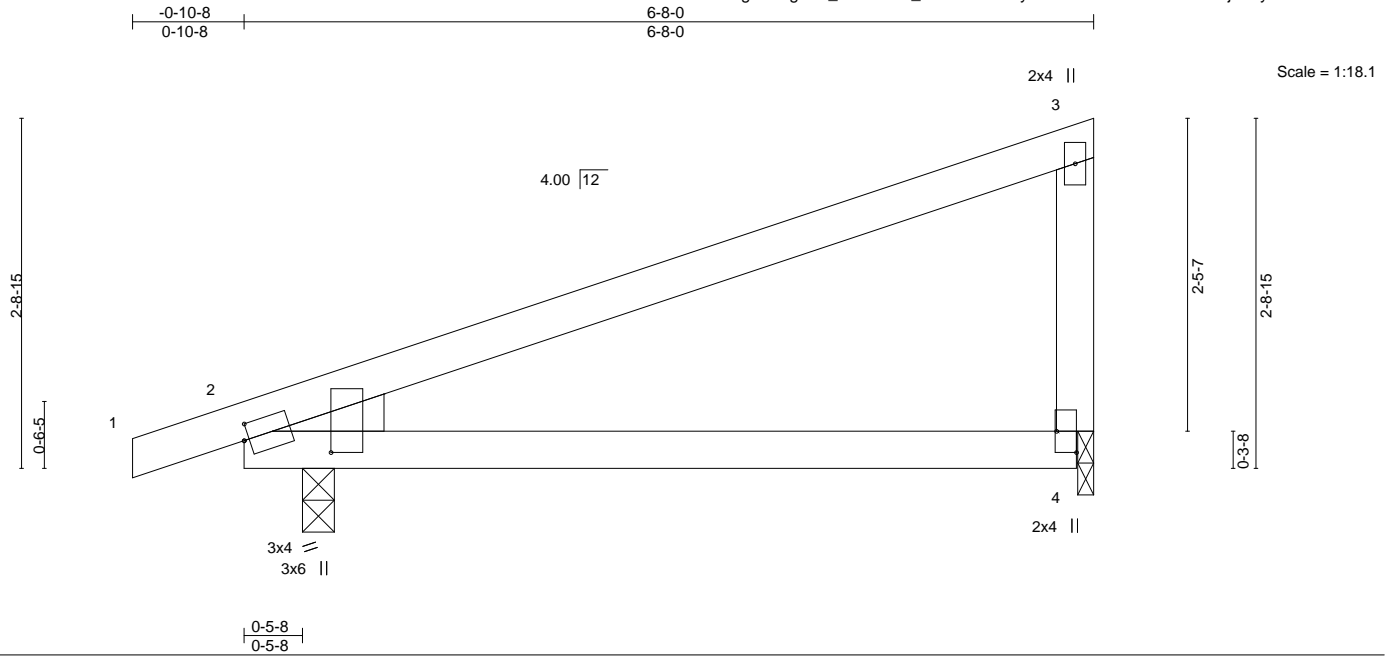


Plate Offsets (X,Y)--	[2:0-0-8,0-1-8], [2:0-1-2,0-8-3], [4:Edge,0-1-14]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) 0.17 4-9 >455 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.12 4-9 >652 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.02 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 26 lb	FT = 20%

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

**REACTIONS.** (lb/size) 2=341/0-3-0, 4=233/0-1-8  
 Max Horz 2=119(LC 11)  
 Max Uplift 2=-183(LC 8), 4=-129(LC 8)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
- 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=183, 4=129.
- 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.

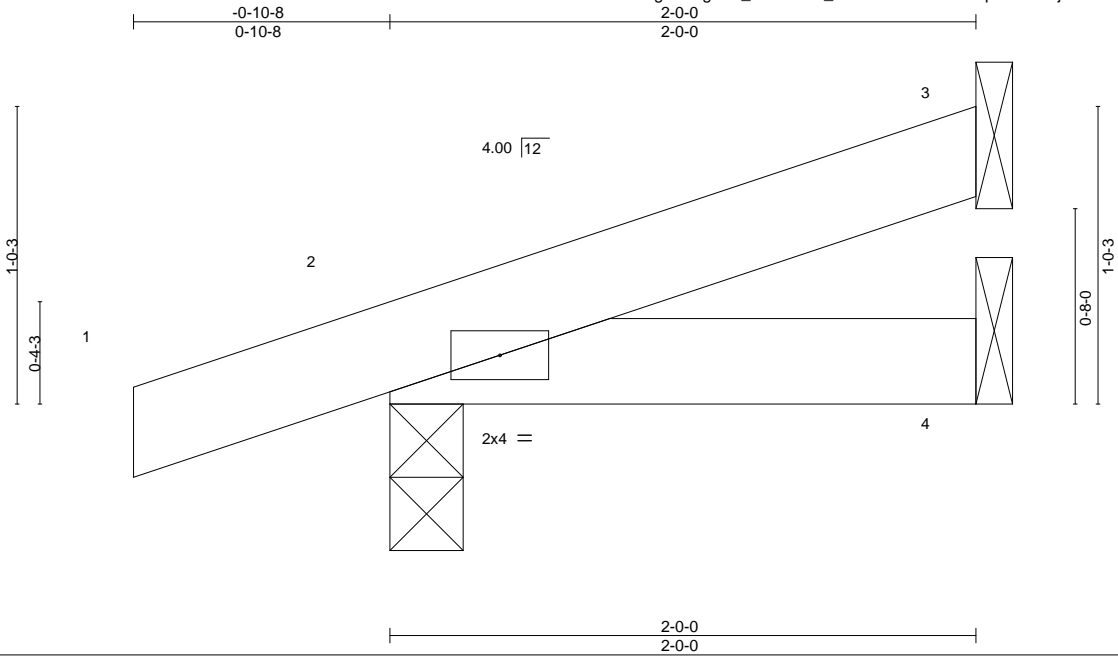


Job 812025	Truss J04	Truss Type Jack-Open	Qty 25	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204656
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:07 2019 Page 1

ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-VtQmiEAeVcobpLSrbCWj0UwIHakVk0znUfho7KzDK6g



Scale = 1:7.9

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 0.05	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP							
									Weight: 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 2-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=43/Mechanical, 2=144/0-3-0, 4=25/Mechanical  
Max Horz 2=47(LC 8)  
Max Uplift 3=-25(LC 8), 2=-87(LC 8), 4=-12(LC 8)  
Max Grav 3=43(LC 1), 2=144(LC 1), 4=33(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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 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) 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) 3, 2, 4.



May 28, 2019

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

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



818 Soundside Road  
Edenton, NC 27932



Job 812025	Truss J05	Truss Type Monopitch	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204657
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:08 2019 Page 1

ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-z3\_8wWFCGvwSRU019v2yYiSOv\_\_ITTDwjJRLfzmzDK6f  
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6-0-0

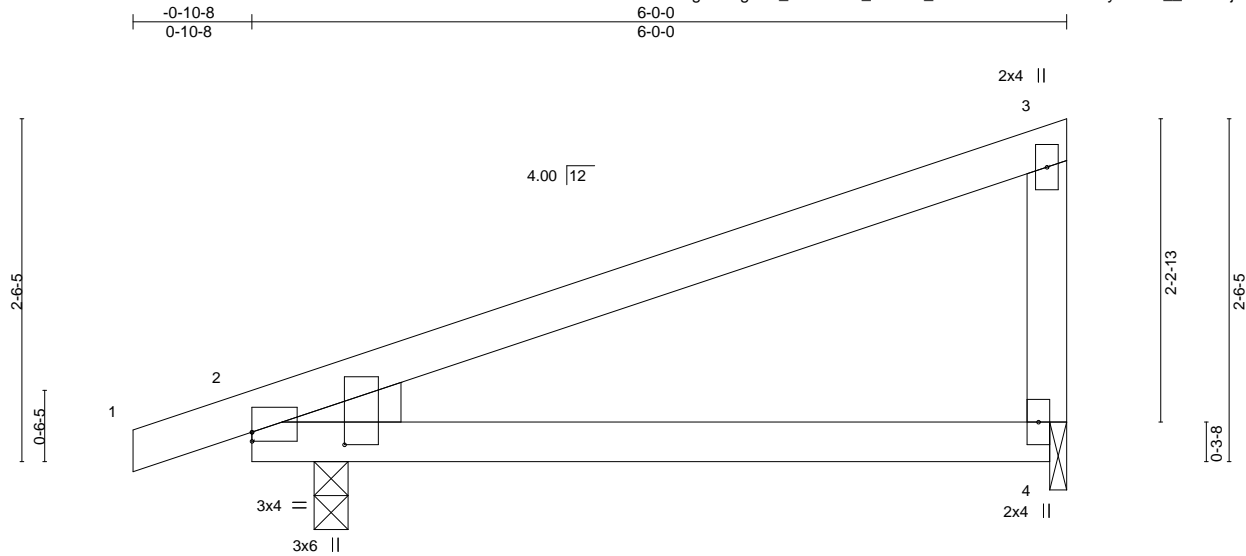


Plate Offsets (X,Y)-- [2:0-0-0,0-0-13], [2:0-1-2,0-8-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(LL) 0.11 4-9 >647 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.07 4-9 >939 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) -0.01 2 n/a n/a		
				Weight: 24 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

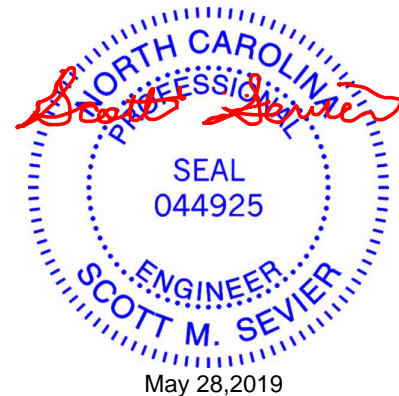
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 2=315/0-3-0, 4=206/0-1-8  
Max Horz 2=74(LC 8)  
Max Uplift 2=-110(LC 8), 4=-84(LC 8)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=110.
- 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.



**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 812025	Truss J06	Truss Type Monopitch	Qty 6	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204658
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:09 2019 Page 1

ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-RGYW7sGq1D2J2ebDidZB5v?ZfOK\_CwT4yzBvCCzDK6e

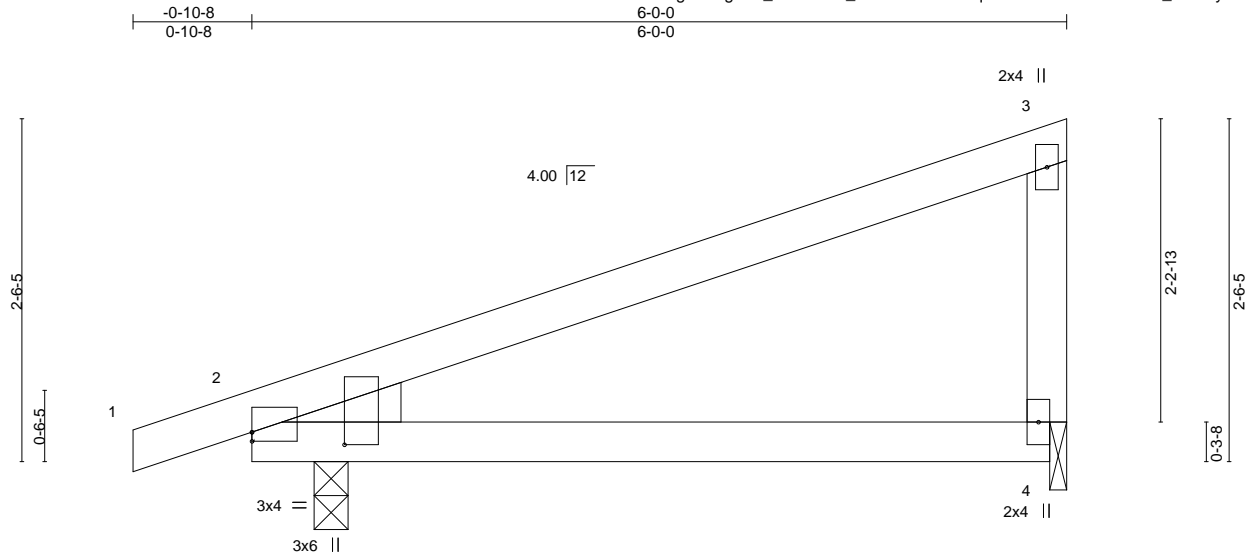


Plate Offsets (X,Y)-- [2:0-0-0,0-0-13], [2:0-1-2,0-8-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(LL) 0.11 4-9 >647 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.07 4-9 >939 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) -0.01 2 n/a n/a		
				Weight: 24 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

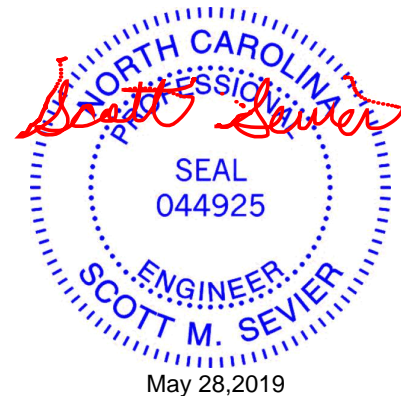
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 2=315/0-3-0, 4=206/0-1-8  
 Max Horz 2=74(LC 8)  
 Max Uplift 2=-110(LC 8), 4=-84(LC 8)

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

**NOTES-**

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=110.
- 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.



**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 812025	Truss J07	Truss Type Half Hip	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204659
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Builders First Source, Sumter SC

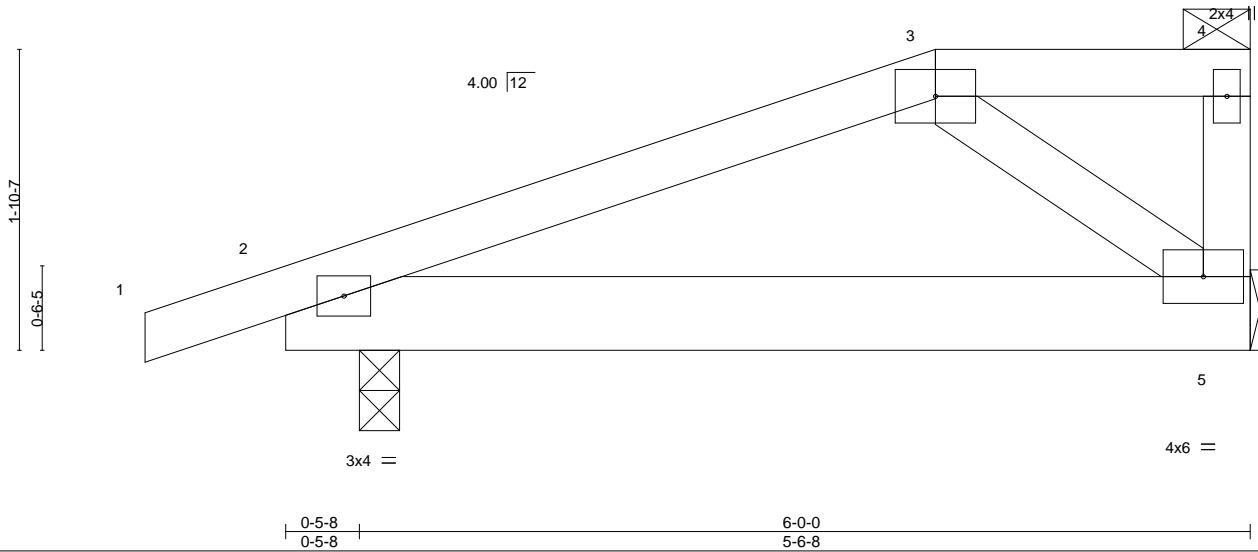
8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:10 2019 Page 1

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4x6 =

Scale = 1:14.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	-0.01 5-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02 5-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.02 5-10	>999	240	Weight: 29 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=315/0-3-0, 5=206/Mechanical  
 Max Horz 2=55(LC 8)  
 Max Uplift 2=-117(LC 8), 5=-77(LC 8)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=117.
- 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.



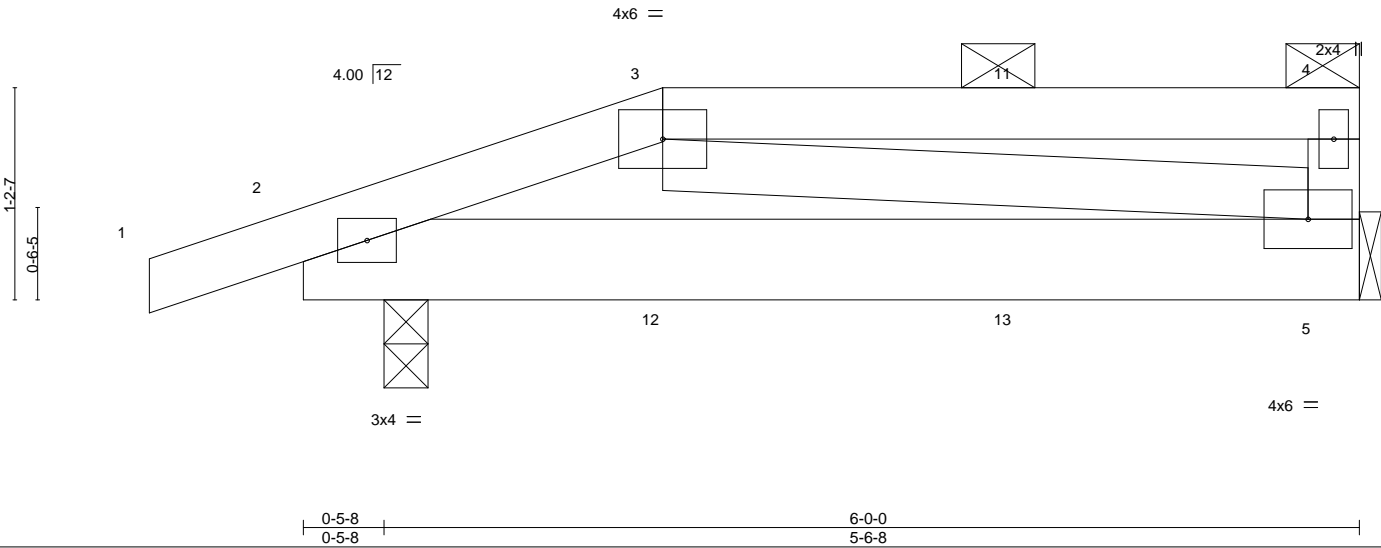
Job 812025	Truss J08	Truss Type Half Hip Girder	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204660
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:11 2019 Page 1  
ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-OegGYH4Zq10lylcq2bfAK4wBC3ugpzMPHg?G5zDK6c



Scale = 1:13.1



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 0.31	Vert(LL)	-0.01	5-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.01	5-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.01	5-10	>999	240		
									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: 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=198/Mechanical, 2=308/0-3-0  
Max Horz 2=35(LC 4)  
Max Uplift 5=-74(LC 4), 2=-123(LC 4)

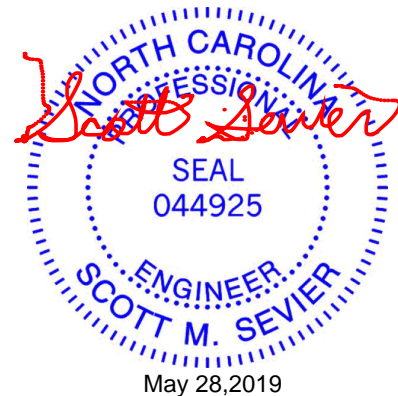
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-256/81

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=123.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 10 lb down and 11 lb up at 2-0-8, and 10 lb down and 11 lb up at 4-1-4 on top chord, and 26 lb down and 16 lb up at 2-1-4, and 26 lb down and 16 lb up at 4-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-4=-60, 5-6=-20  
Concentrated Loads (lb)  
Vert: 12=8(F) 13=8(F)



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

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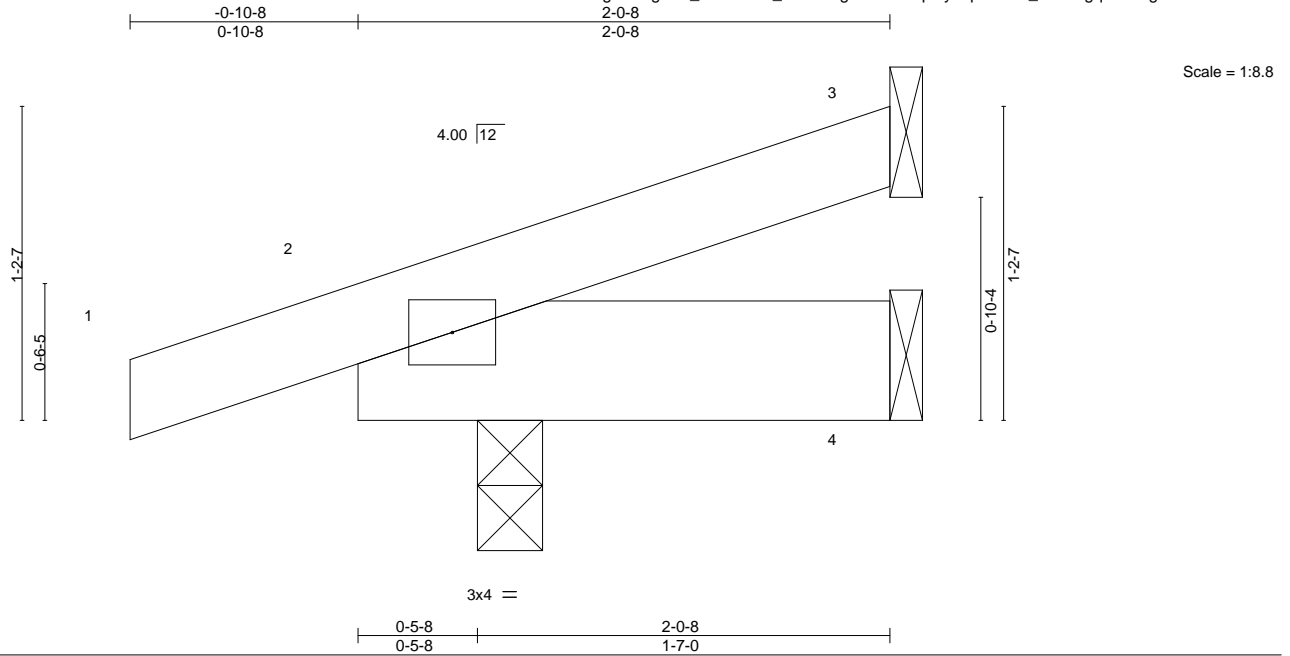
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss J09	Truss Type Jack-Open	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204661
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:11 2019 Page 1

ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-OegGYH4Zq0lYlcq2bfAK4\_GC5RgqzMPHg?G5zDK6c



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	5	>999	240		
									Weight: 9 lb	FT = 20%

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

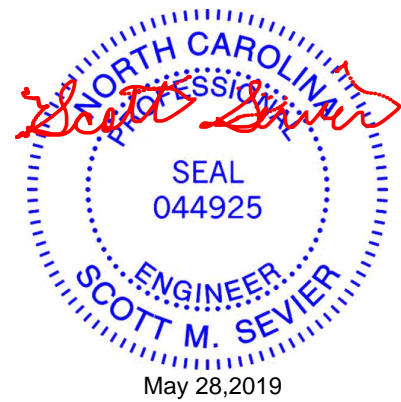
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-0-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=26/Mechanical, 2=186/0-3-0, 4=-2/Mechanical  
Max Horz 2=34(LC 8)  
Max Uplift 3=-11(LC 12), 2=-77(LC 8), 4=-8(LC 9)  
Max Grav 3=26(LC 1), 2=186(LC 1), 4=21(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be User Defined crushing capacity of 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) 3, 2, 4.



Job 812025	Truss J10	Truss Type Monopitch Girder	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204662
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:12 2019 Page 1  
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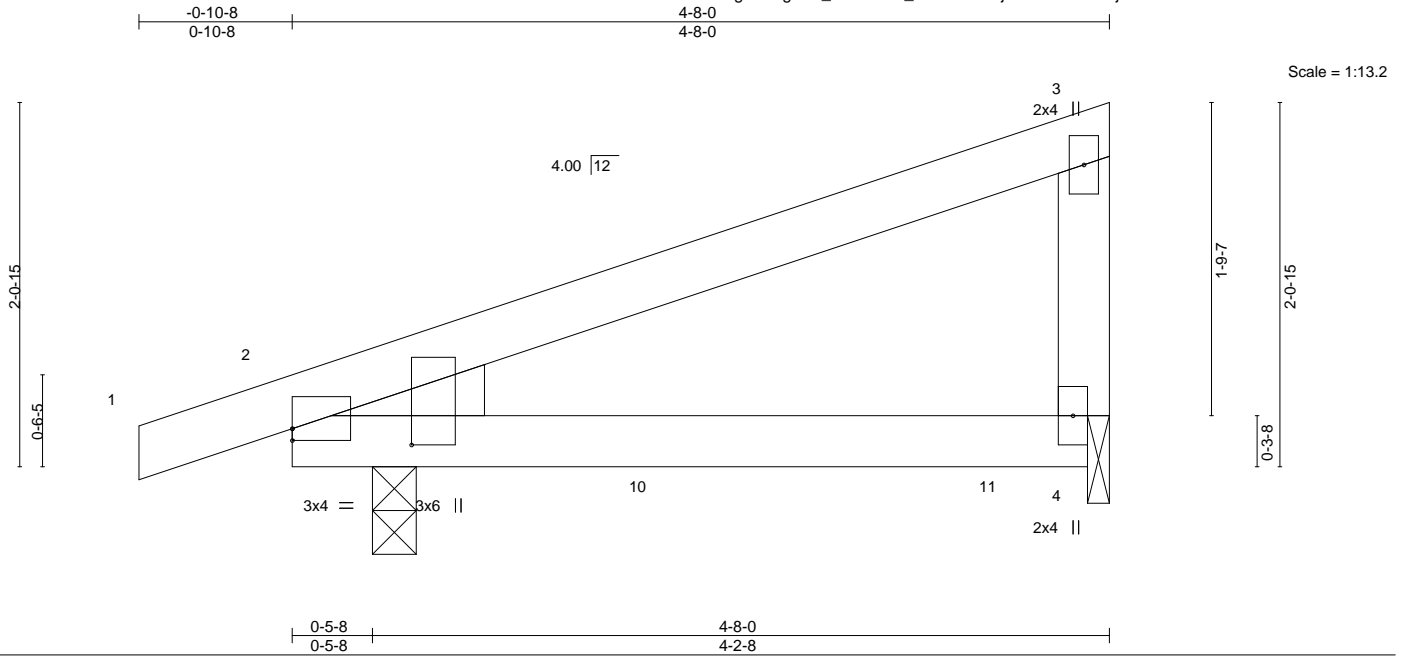


Plate Offsets (X,Y)--	[2:0-0-0,0-0-13], [2:0-1-2,0-8-3]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.03 4-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.07 4-9 >798 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.01 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.04 4-9 >999 240	Weight: 19 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=391/0-3-0, 4=393/0-1-8  
Max Horz 2=66(LC 7)  
Max Uplift 2=-111(LC 4), 4=-132(LC 8)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=111, 4=132.
  - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 178 lb down and 97 lb up at 2-1-4, and 191 lb down and 94 lb up at 4-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

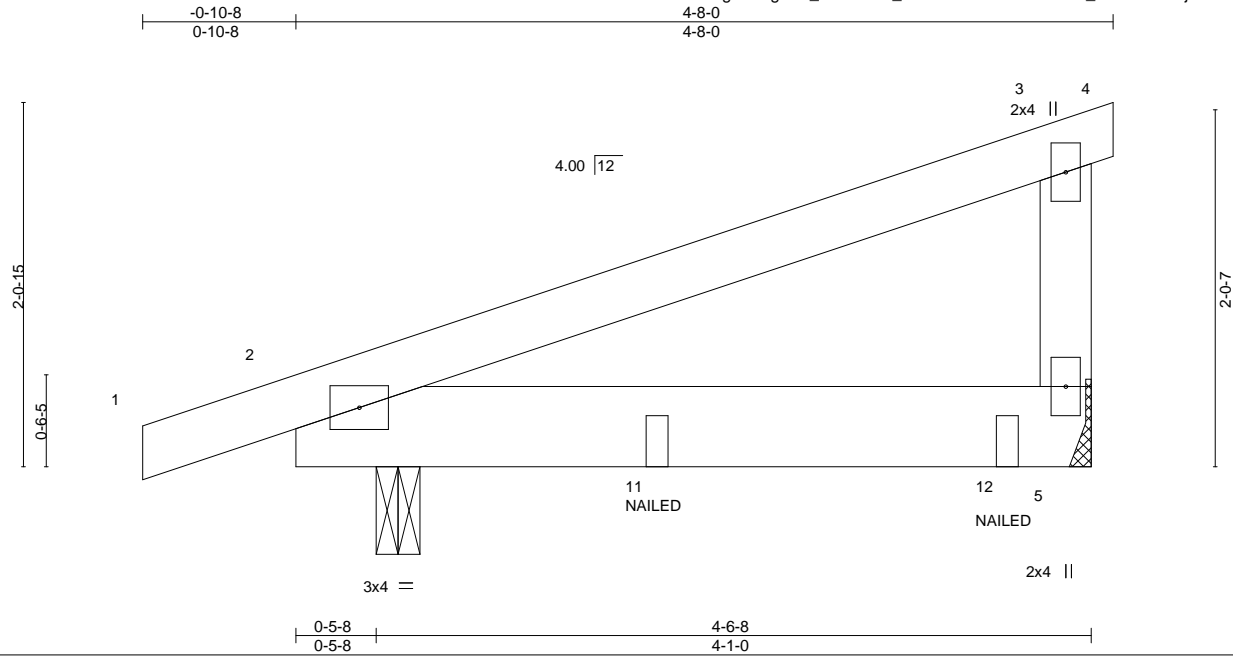
<b>LOAD CASE(S)</b> Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 10=-178(B) 11=-191(B)



Job 812025	Truss J11	Truss Type Monopitch Girder	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204663
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:13 2019 Page 1  
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	0.02 5-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.02 5-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP					Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-0 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	

**REACTIONS.** (lb/size) 5=415/Mechanical, 2=389/0-3-0  
Max Horz 2=61(LC 19)  
Max Uplift 5=-165(LC 4), 2=-145(LC 4)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed; end vertical left exposed; porch left exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=165, 2=145.
  - 7) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
  - 8) 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=-20, 5-6=-20  
Concentrated Loads (lb)  
Vert: 11=-187(B) 12=-208(B)



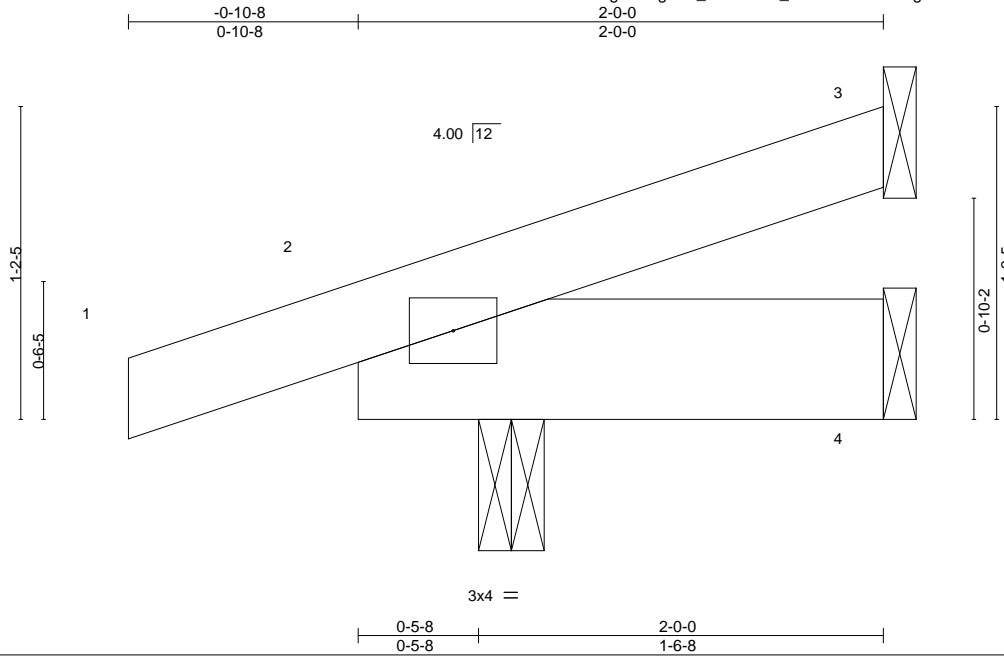
May 28, 2019

Job 812025	Truss J12	Truss Type Jack-Open	Qty 3	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204664
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:14 2019 Page 1

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Scale = 1:8.8

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 0.05	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	5	>999	240		
									Weight: 9 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

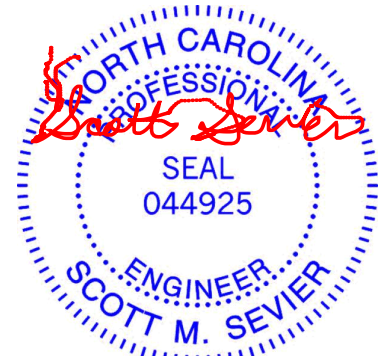
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=27/Mechanical, 4=-2/Mechanical, 2=187/0-3-0  
Max Horz 2=34(LC 8)  
Max Uplift 3=-11(LC 12), 4=-9(LC 9), 2=-77(LC 8)  
Max Grav 3=27(LC 1), 4=21(LC 3), 2=187(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be User Defined crushing capacity of 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) 3, 4, 2.



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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.**

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



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Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	137204665
812025	J13	HALF HIP GIRDER	1	1		

Builders First Source, Sumter SC

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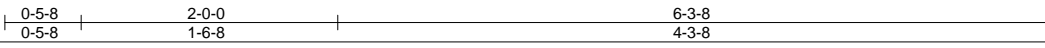
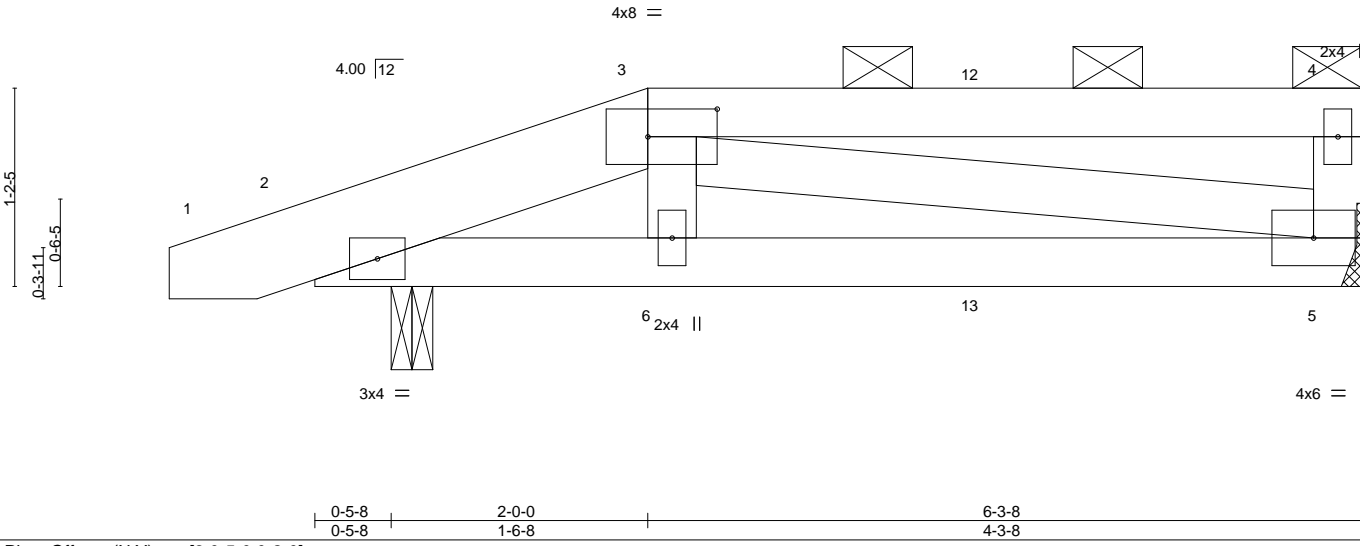


Plate Offsets (X,Y)-- [3:0-5-0,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	-0.01	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.02	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.08	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.01	5-6	>999	Weight: 30 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2 \*Except\*  
 3-4: 2x4 SP No.2  
 BOT CHORD 2x4 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) 5=207/Mechanical, 2=299/0-3-0  
 Max Horz 2=33(LC 4)  
 Max Uplift 5=-82(LC 4), 2=-116(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-303/115  
 BOT CHORD 2-6=-106/251, 5-6=-111/268  
 WEBS 3-5=-274/114

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=116.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 10 lb down and 11 lb up at 2-0-0, and 10 lb down and 11 lb up at 4-0-12, and 10 lb down and 13 lb up at 6-1-12 on top chord, and 26 lb down and 16 lb up at 2-0-12, and 26 lb down and 16 lb up at 4-0-12, and 19 lb down and 16 lb up at 6-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-4=-60, 5-7=-20



Continued on page 2

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

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



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Job	Truss	Truss Type	Qty	Ply	H&H/Jessamine/	I37204665
812025	J13	HALF HIP GIRDER	1	1		
Job Reference (optional)						

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8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:15 2019 Page 2  
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**LOAD CASE(S)** Standard  
 Concentrated Loads (lb)  
 Vert: 5=7(F) 6=7(F) 13=7(F)

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 Edenton, NC 27932



Job 812025	Truss J15	Truss Type MONOPITCH	Qty 7	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204667
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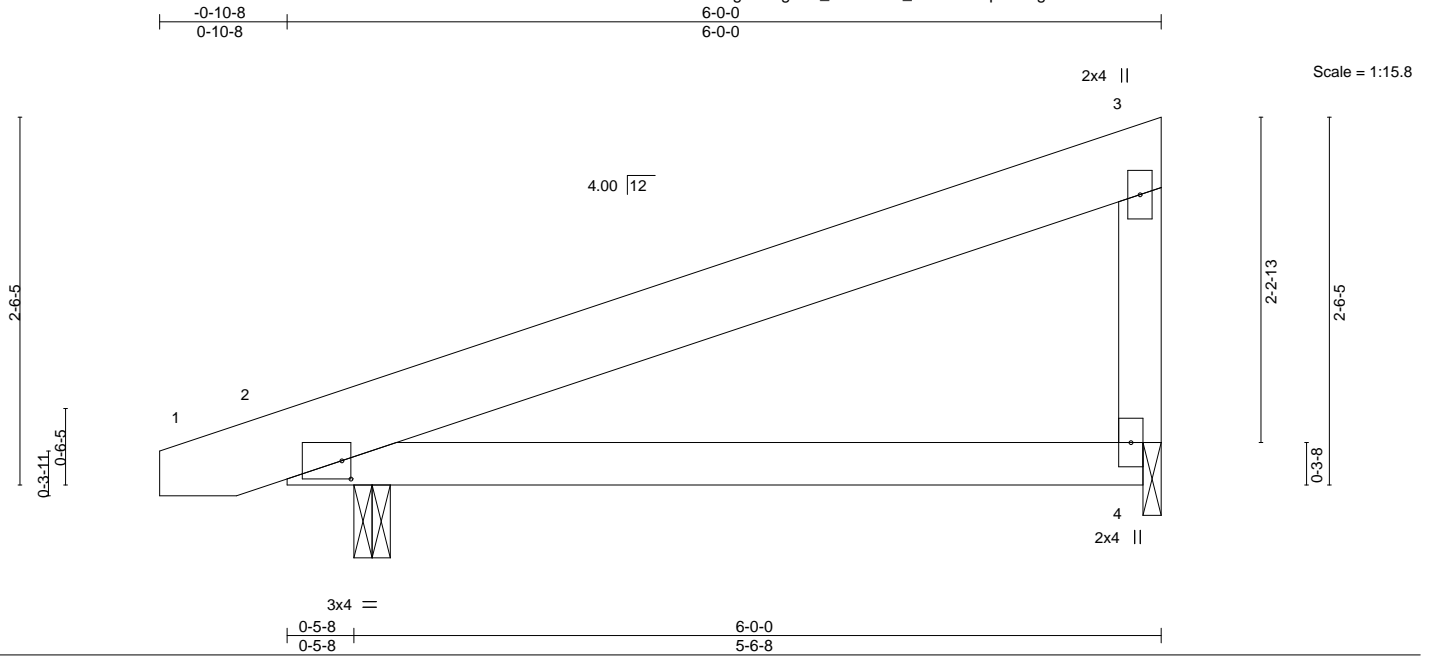


Plate Offsets (X,Y)--	[2:0-0-12,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.02 4-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.05 4-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.07 4-9 >999 240	Weight: 28 lb	FT = 20%

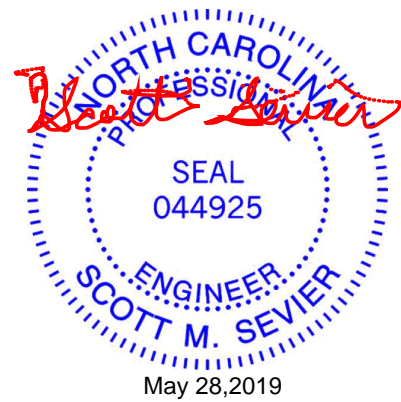
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=296/0-3-0, 4=209/0-1-8  
 Max Horz 2=70(LC 8)  
 Max Uplift 2=100(LC 8), 4=85(LC 8)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=100.
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



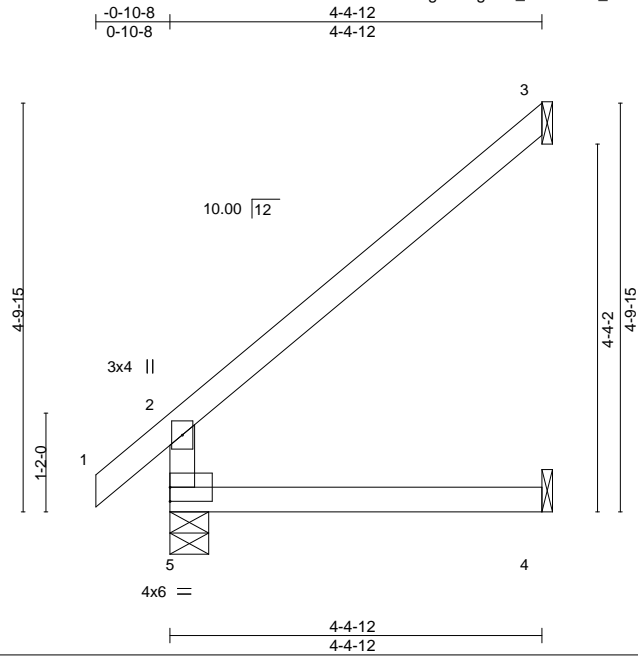
May 28, 2019

Job 812025	Truss J201	Truss Type Jack-Open	Qty 14	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204668
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Scale = 1:27.2

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.01 4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.03 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.05 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.03 4-5	>999	240	Weight: 18 lb	FT = 20%

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

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

**REACTIONS.** (lb/size) 5=236/0-5-8, 3=113/Mechanical, 4=47/Mechanical  
 Max Horz 5=121(LC 12)  
 Max Uplift 3=86(LC 12)  
 Max Grav 5=236(LC 1), 3=133(LC 19), 4=79(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 28, 2019

**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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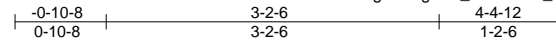
818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss J202	Truss Type Half Hip	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204669
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:19 2019 Page 1

ID:iAmMfgg3tW0ghNx\_OkVH7Bz\_9Ds-9B9IEHN6glluFBM8ljkXV0PK6QlsYS4YFWcRYdzDK6U



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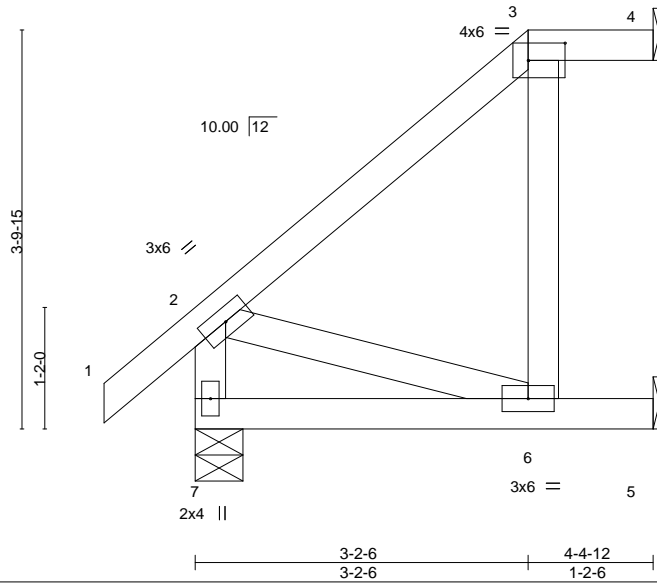


Plate Offsets (X,Y)-- [3:0-4-4,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.02	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.05	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.04	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.03	6-7	>999	Weight: 27 lb	FT = 20%

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

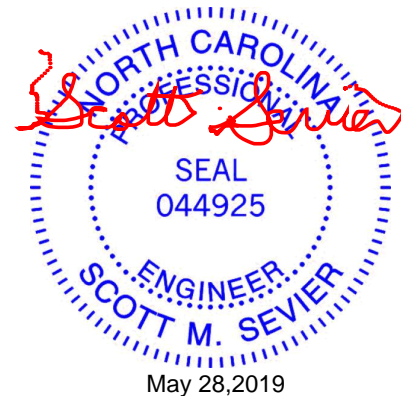
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 4=34/Mechanical, 7=236/0-5-8, 5=126/Mechanical  
 Max Horz 7=93(LC 12)  
 Max Uplift 4=-11(LC 8), 5=-42(LC 12)  
 Max Grav 4=34(LC 1), 7=236(LC 1), 5=134(LC 19)

**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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



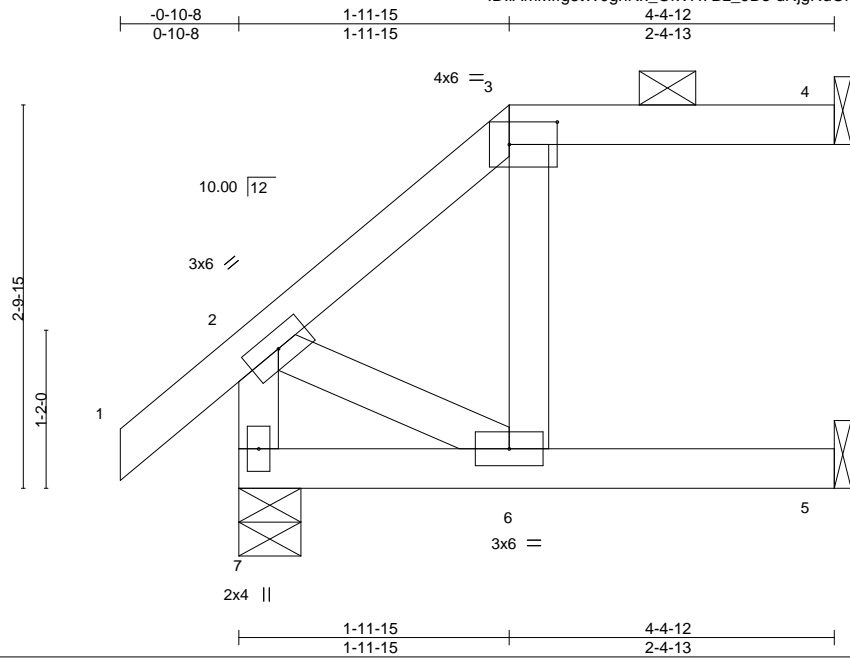
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 812025	Truss J203	Truss Type Half Hip Girder	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204670
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:20 2019 Page 1  
ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-dNjgRdOkRbQltKxLrRfM1EyV6q43HuohTAL\_43zDK6T



Scale = 1:17.0

Plate Offsets (X,Y)--	[3:0-4-4,0-2-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.02 6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.05 6 >933 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.03	Horz(CT) 0.07 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.05 6 >999 240	Weight: 23 lb	FT = 20%

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

**REACTIONS.** (lb/size) 4=70/Mechanical, 7=236/0-5-8, 5=90/Mechanical  
 Max Horz 7=66(LC 9)  
 Max Uplift 4=-22(LC 8), 5=-7(LC 12)  
 Max Grav 4=70(LC 1), 7=236(LC 1), 5=100(LC 3)

**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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 812025	Truss J204	Truss Type Half Hip Girder	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204671
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Builders First Source, Sumter SC

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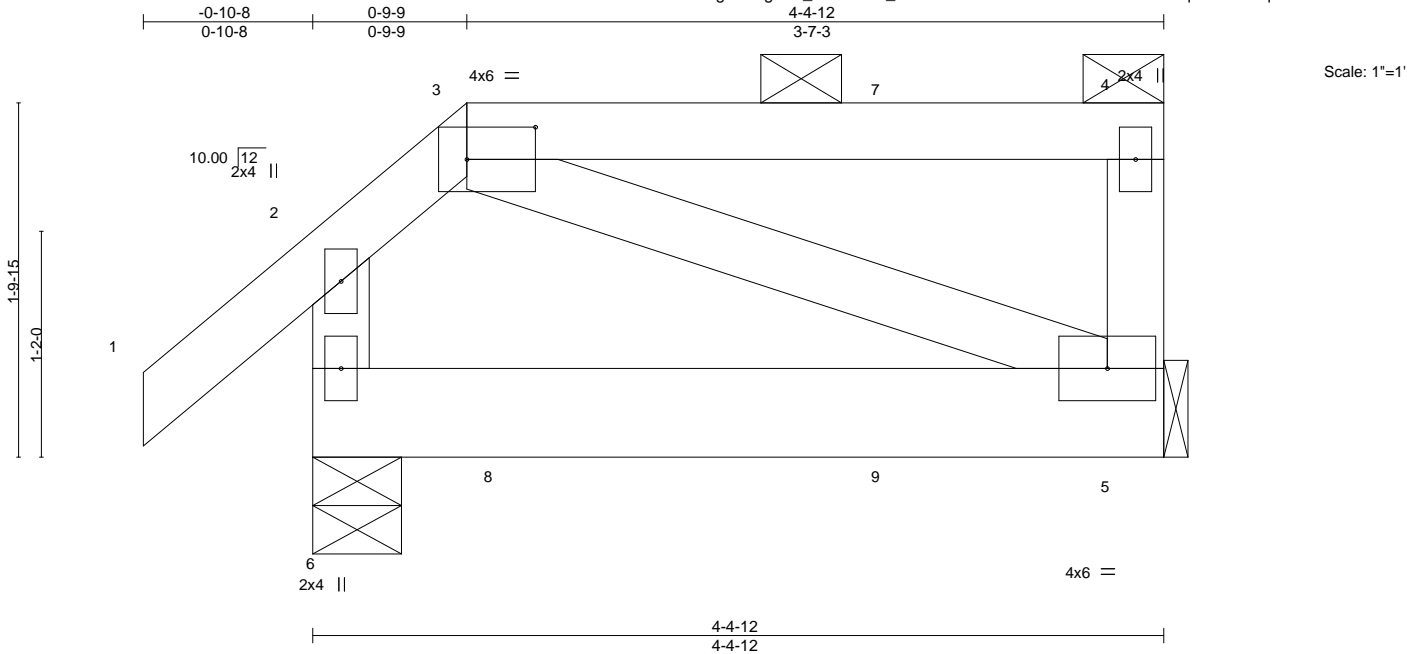


Plate Offsets (X,Y)--	[3:0-4-4,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) -0.00 5-6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Vert(CT) -0.01 5-6 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) -0.00 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) -0.00 6 >999 240	Weight: 27 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

**REACTIONS.** (lb/size) 6=238/0-5-8, 5=160/Mechanical  
 Max Horz 6=62(LC 7)  
 Max Uplift 6=-22(LC 8), 5=-26(LC 5)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 27 lb up at 0-9-9, and 20 lb down and 27 lb up at 3-0-12 on top chord, and 9 lb down at 1-0-12, and 9 lb down at 3-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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, 3-4=-60, 5-6=-20	
Concentrated Loads (lb)	
Vert: 8=-4(F) 9=-4(F)	



May 28, 2019

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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

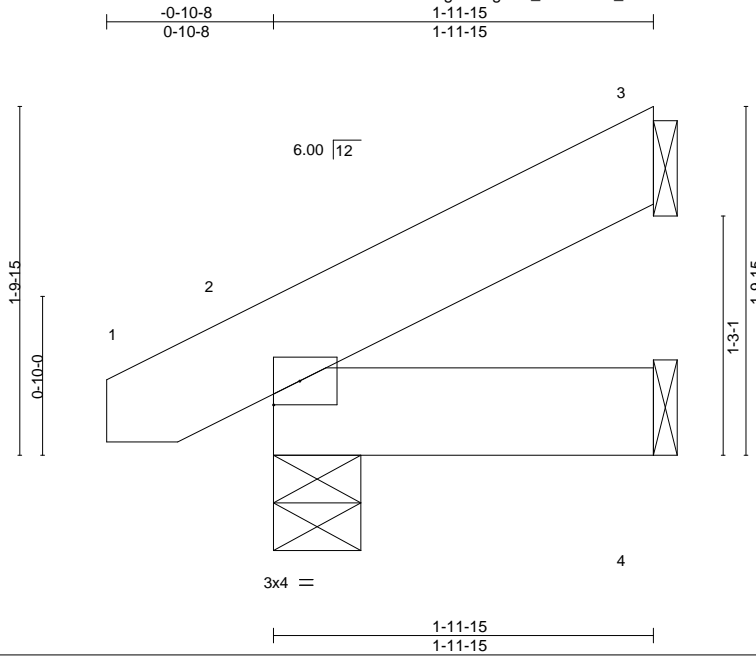


Job 812025	Truss J205	Truss Type Jack-Open	Qty 4	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204672
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8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:21 2019 Page 1

ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-5ZH2ezPMCvYcUUWXP8n?aRvHGEV20LRriq5XdWzDK6S



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 0.02	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	7	>999		
								Weight: 12 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-11-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=49/Mechanical, 2=128/0-5-8, 4=23/Mechanical  
Max Horz 2=39(LC 12)  
Max Uplift 3=23(LC 12), 2=3(LC 12)  
Max Grav 3=49(LC 1), 2=128(LC 1), 4=36(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



May 28, 2019

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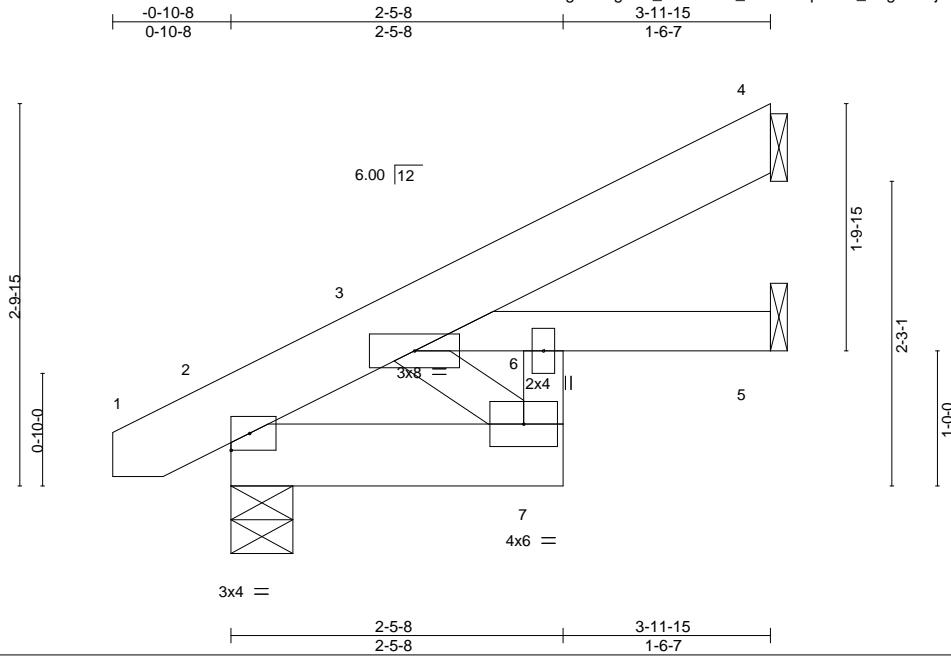


818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss J206	Truss Type Jack-Open	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204673
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8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:22 2019 Page 1  
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Scale = 1:17.1

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 0.10	Vert(LL)	-0.01	7 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.02	7 >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-MP	Wind(LL)	0.01	7 >999	240	Weight: 25 lb	FT = 20%

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

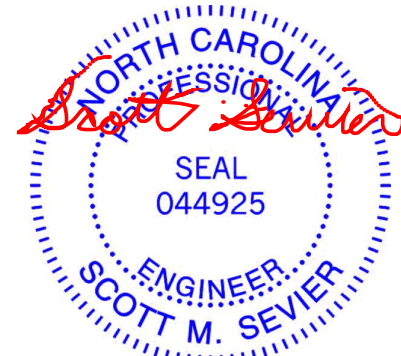
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=107/Mechanical, 2=215/0-5-8, 5=56/Mechanical  
Max Horz 2=69(LC 12)  
Max Uplift 4=34(LC 12)  
Max Grav 4=107(LC 1), 2=215(LC 1), 5=75(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.



May 28, 2019

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818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss J207	Truss Type Half Hip Girder	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204674
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:23 2019 Page 1

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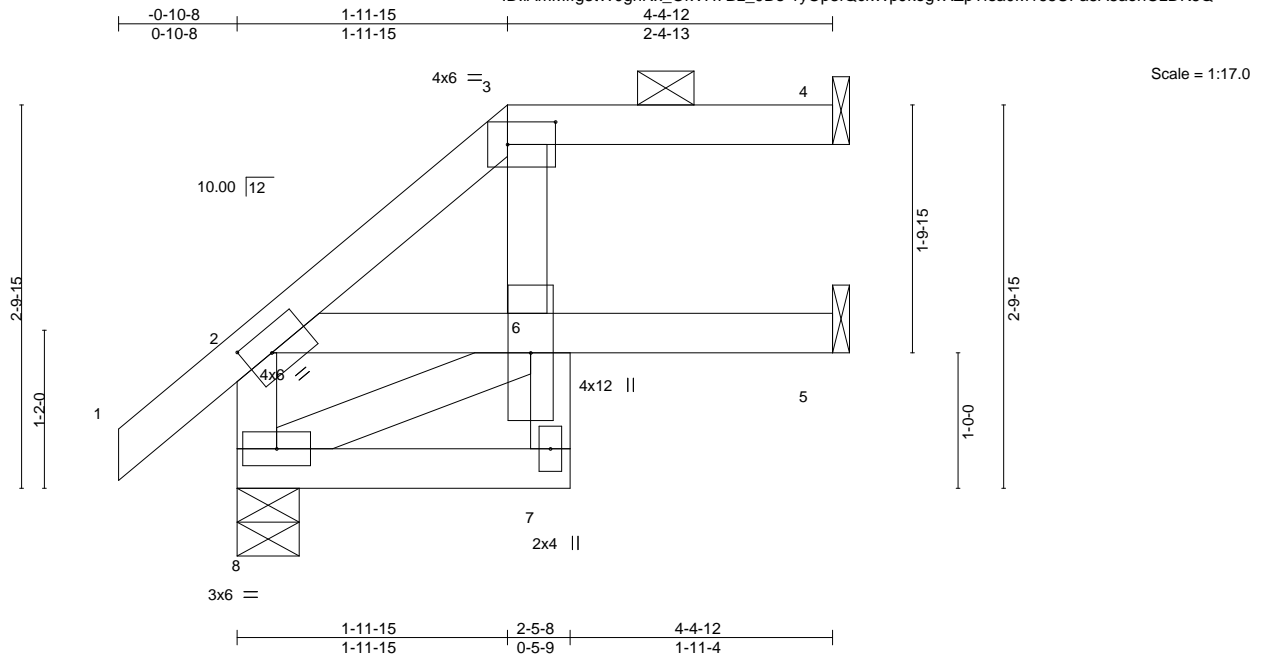


Plate Offsets (X,Y)-- [2:0-2-5,0-2-0], [3:0-4-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(LL) -0.02 6 >999 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Vert(CT) -0.05 7 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) 0.06 4 n/a n/a	Weight: 26 lb	FT = 20%
			Wind(LL) 0.04 6 >999 240		

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

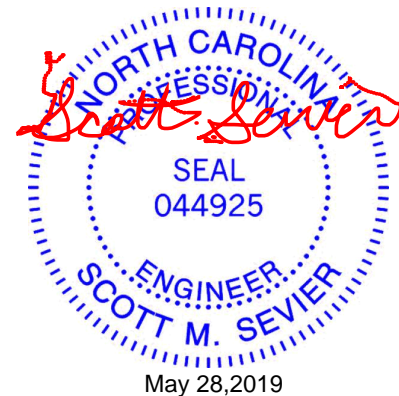
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 4=70/Mechanical, 5=90/Mechanical, 8=236/0-5-8  
 Max Horz 8=67(LC 9)  
 Max Uplift 4=-22(LC 8), 5=-7(LC 12)  
 Max Grav 4=70(LC 1), 5=100(LC 3), 8=236(LC 1)

**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=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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.



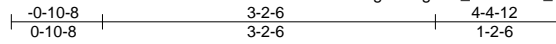
818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss J208	Truss Type Half Hip	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204675
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:24 2019 Page 1

ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-V8yBH?REVqxALyF64HKiC47AwRSeDiNH0oJCErzDK6P



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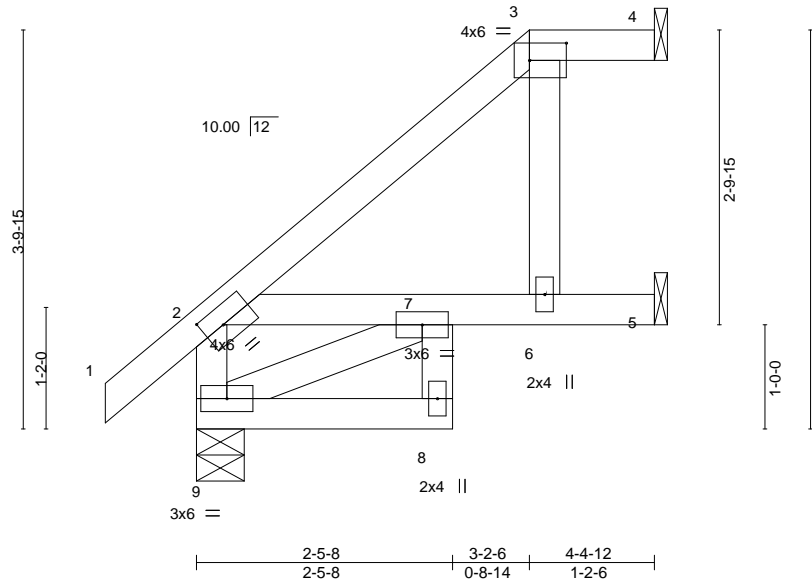


Plate Offsets (X, Y)--	[2:0-2-5,0-2-0], [3:0-4-4,0-2-0]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -0.02	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.04		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.06		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.05	Weight: 28 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins: 3-4.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
7-8: 2x4 SP No.2	

**REACTIONS.** (lb/size) 4=34/Mechanical, 5=126/Mechanical, 9=236/0-5-8  
 Max Horz 9=93(LC 12)  
 Max Uplift 4=-11(LC 8), 5=-42(LC 12)  
 Max Grav 4=34(LC 1), 5=134(LC 19), 9=236(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
  - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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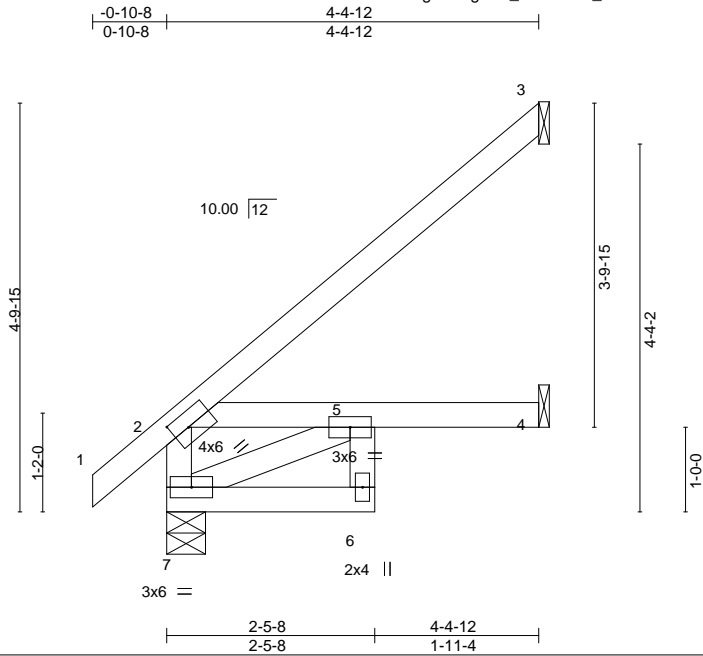
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Affiliate</small></p> <p>818 Soundside Road        Edenton, NC 27932</p>
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Job 812025	Truss J209	Truss Type Jack-Open	Qty 5	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204676
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Builders First Source, Sumter SC

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ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-zLWZUKSsG831z6qle\_rxkHfIOrOdy9RQdS3lmHzDK6O



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Plate Offsets (X,Y)--	[2:0-2-5,0-2-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.03 6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.05 6 >967 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.02 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.03 5 >999 240	Weight: 25 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-6: 2x4 SP No.2	

**REACTIONS.** (lb/size) 7=267/0-5-8, 3=115/Mechanical, 4=56/Mechanical  
 Max Horz 7=121(LC 12)  
 Max Uplift 3=-79(LC 12)  
 Max Grav 7=267(LC 1), 3=131(LC 19), 4=107(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-7=-253/104  
 WEBS 5-7=-258/215

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
  - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY  <b>TRENCO</b>        A MiTek Affiliate</p> <p>818 Soundside Road        Edenton, NC 27932</p>
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Job 812025	Truss J211	Truss Type Half Hip	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204677
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:26 2019 Page 1

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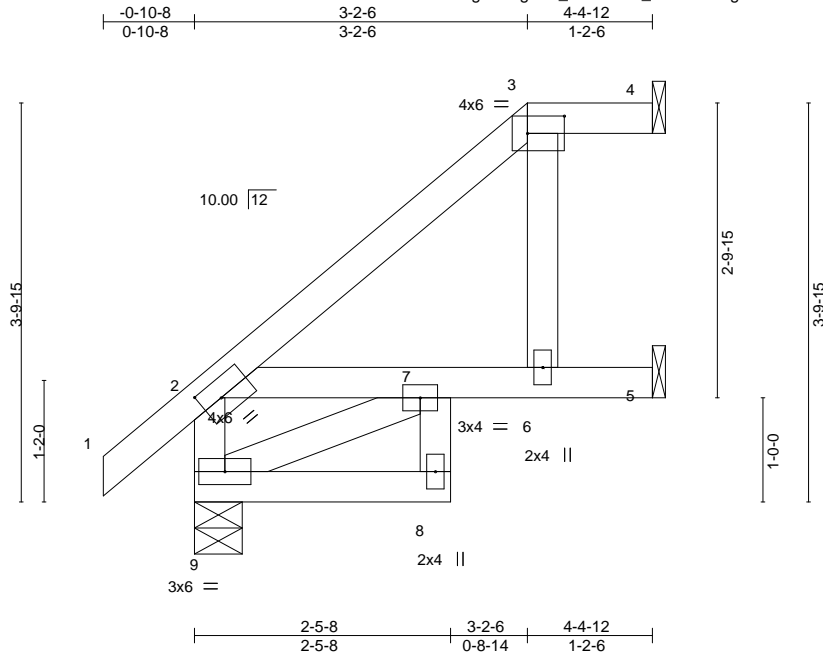


Plate Offsets (X,Y)--	[2:0-2-5,0-2-0], [3:0-4-4,0-2-0]
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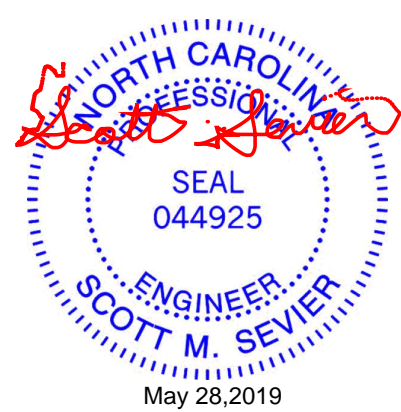
LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.18	Vert(LL) -0.02	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.04		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.06		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.05	Weight: 28 lb	FT = 20%

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

**REACTIONS.** (lb/size) 4=34/Mechanical, 5=126/Mechanical, 9=236/0-5-8  
 Max Horz 9=93(LC 12)  
 Max Uplift 4=-11(LC 8), 5=-42(LC 12)  
 Max Grav 4=34(LC 1), 5=134(LC 19), 9=236(LC 1)

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

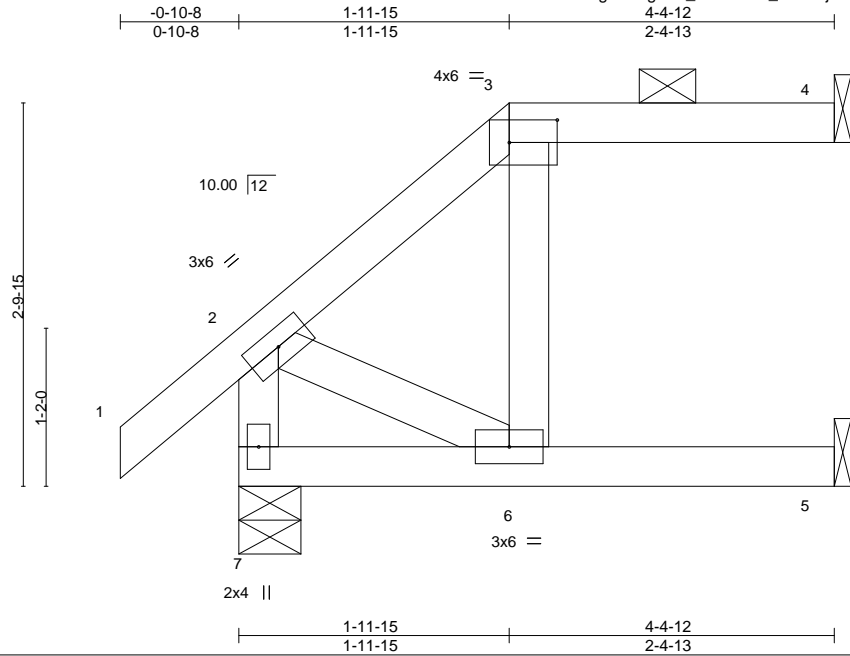
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 812025	Truss J212	Truss Type Half Hip Girder	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204678
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:27 2019 Page 1  
ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-wjeJv0U7nJICPzhmPtPqiliLeJ8Q3Jj4mYsq9zDK6M



Scale = 1:17.0

Plate Offsets (X,Y)--	[3:0-4-4,0-2-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.06 6 >815 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 1.00	Vert(CT) -0.13 6 >378 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.04	Horz(CT) 0.17 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.04 6 >999 240	Weight: 23 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	

**REACTIONS.** (lb/size) 4=266/Mechanical, 7=367/0-5-8, 5=269/Mechanical  
Max Horz 7=66(LC 5)  
Max Uplift 4=10(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 3-6=-270/26

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- 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) 4.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 193 lb down and 17 lb up at 1-11-15, and 196 lb down and 9 lb up at 4-4-0 on top chord, and 64 lb down at 2-0-11, and 72 lb down at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20  
Concentrated Loads (lb)  
Vert: 3=-174(B) 4=-196(B) 5=-72(B) 6=-64(B)



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Job 812025	Truss J214	Truss Type GABLE COMMON	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204679
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:28 2019 Page 1

ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-OwCi6MUIY2RcqZYtJ6PeMwHtK2t69WAJQHPNczDK6L

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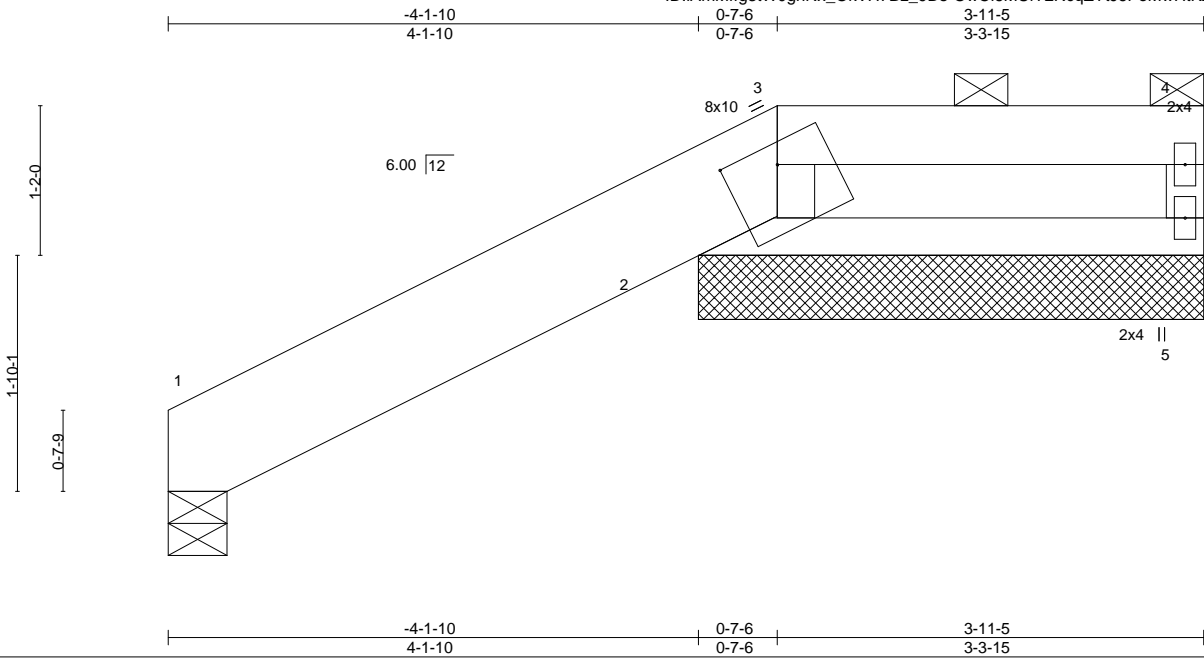


Plate Offsets (X,Y)--	[2:0-3-15,0-0-0], [3:0-5-1,0-1-15]
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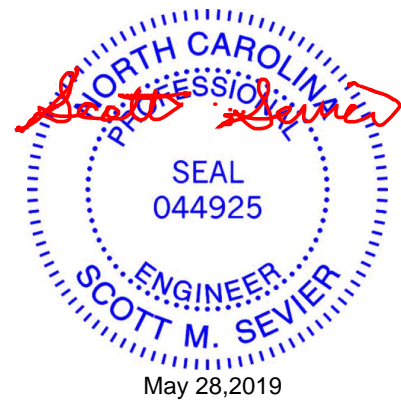
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) -0.01 2-5 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.01 2-5 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) -0.00 2 >999 240	Weight: 37 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x10 SP DSS *Except* 3-4: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-5 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (lb/size) 1=119/0-5-8, 5=125/3-11-5, 2=381/3-11-5  
 Max Horz 2=65(LC 9)  
 Max Uplift 1=-16(LC 12), 5=-9(LC 8), 2=-25(LC 12)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) Gable studs spaced at 2-0-0 oc.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



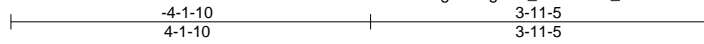
May 28, 2019



Job 812025	Truss J215	Truss Type Jack-Open	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204680
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:29 2019 Page 1  
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Scale = 1:26.5

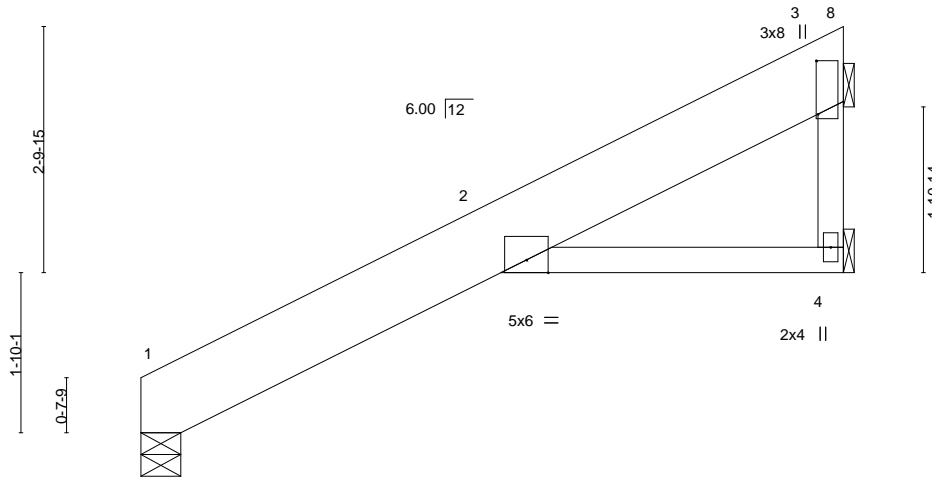


Plate Offsets (X,Y)--	[3-0-7-6,0-0-4]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	-0.02	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.04	5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.02	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.03	5	>999	Weight: 45 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x10 SP DSS  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-11-5 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=322/0-5-8, 4=84/Mechanical, 3=234/Mechanical  
Max Horz 3=121(LC 12)  
Max Uplift 1=49(LC 12)  
Max Grav 1=322(LC 1), 4=88(LC 3), 3=234(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left 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) 1 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) 1.



May 28, 2019

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

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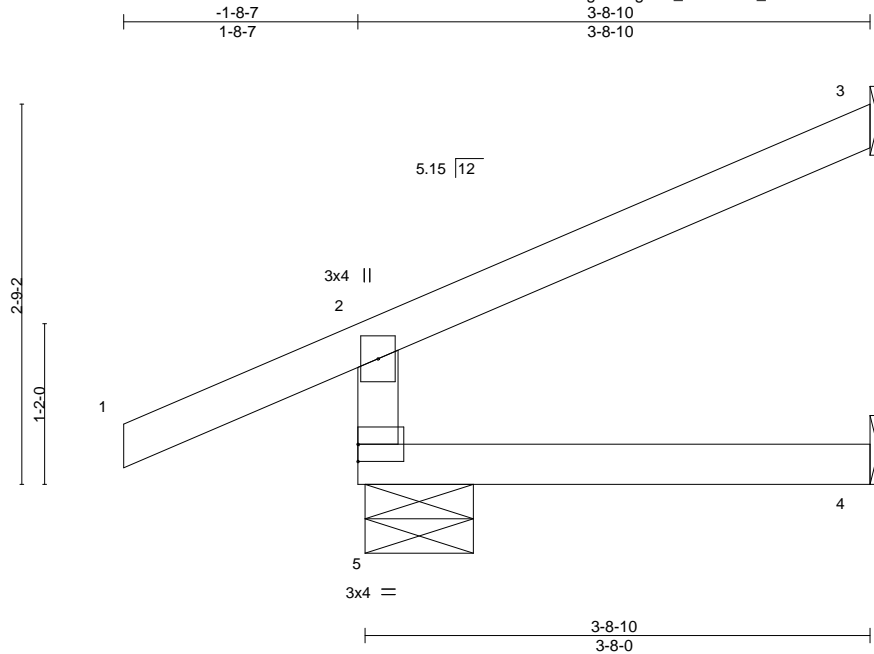


818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss J216	Truss Type Jack-Open	Qty 1	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204681
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:29 2019 Page 1  
ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-s6l4KiVNMZTSj73tqwtv7q?9SCguzQ0Y41yv2zDK6K



Scale = 1:16.7

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 0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.01	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	0.01	4-5	>999	240		
									Weight: 15 lb	FT = 20%

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

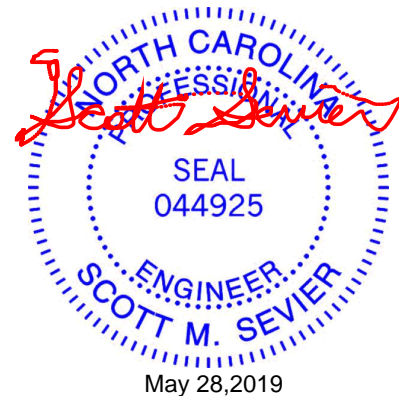
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-8-10 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=280/0-9-7, 3=80/Mechanical, 4=31/Mechanical  
Max Horz 5=66(LC 9)  
Max Uplift 5=-31(LC 8), 3=-40(LC 12)  
Max Grav 5=280(LC 1), 3=80(LC 1), 4=64(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.



May 28, 2019

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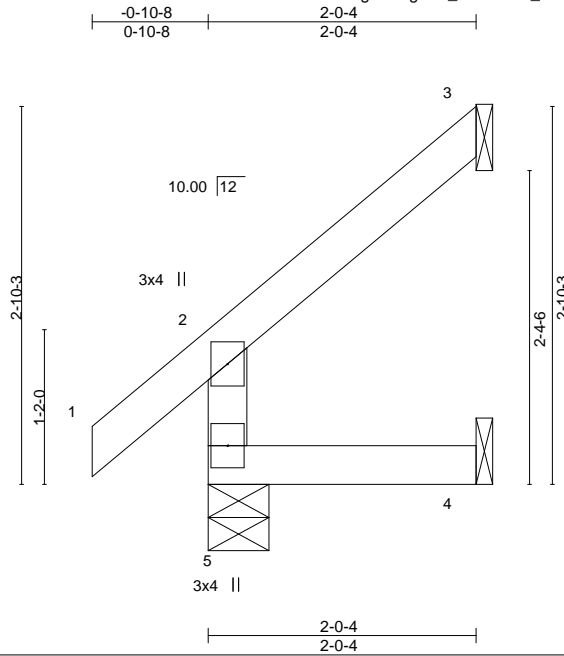
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss J217	Truss Type Jack-Open	Qty 6	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204682
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:30 2019 Page 1

ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-KIJSX2W?4ghK3tiGRXR6RLNCJsZfdQg9nkmWRUzDK6J



Scale = 1:17.4

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR					Weight: 10 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** (lb/size) 5=151/0-5-8, 3=40/Mechanical, 4=16/Mechanical  
 Max Horz 5=64(LC 9)  
 Max Uplift 3=43(LC 12), 4=-8(LC 12)  
 Max Grav 5=151(LC 1), 3=53(LC 19), 4=34(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.



May 28, 2019

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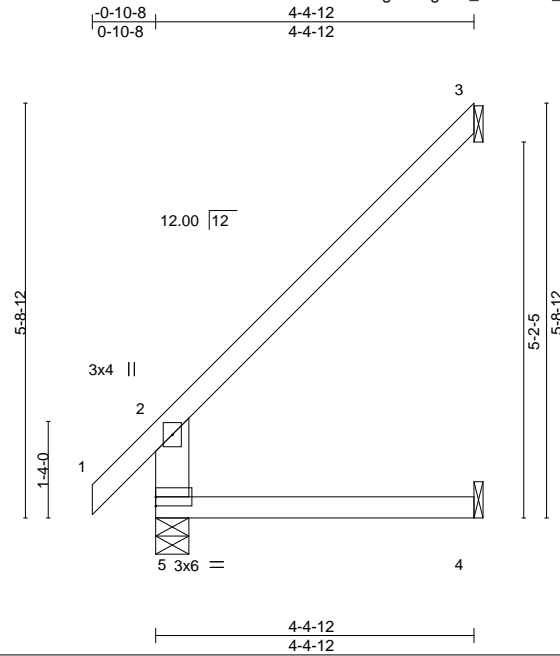
818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss J220	Truss Type Jack-Open	Qty 26	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204683
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:31 2019 Page 1

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Scale: 3/8"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	0.04 4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.05 4-5	>969	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.07 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS					Weight: 21 lb	FT = 20%

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

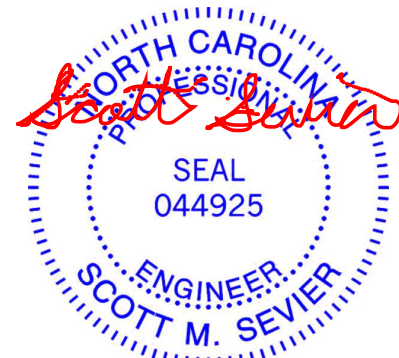
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 5=239/0-5-8, 3=108/Mechanical, 4=47/Mechanical  
 Max Horz 5=145(LC 12)  
 Max Uplift 3=-105(LC 12), 4=-11(LC 12)  
 Max Grav 5=239(LC 1), 3=136(LC 19), 4=77(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 3=105.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 28, 2019

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ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate

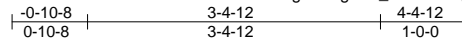
818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss J221	Truss Type Half Hip	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204684
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Builders First Source, Sumter SC

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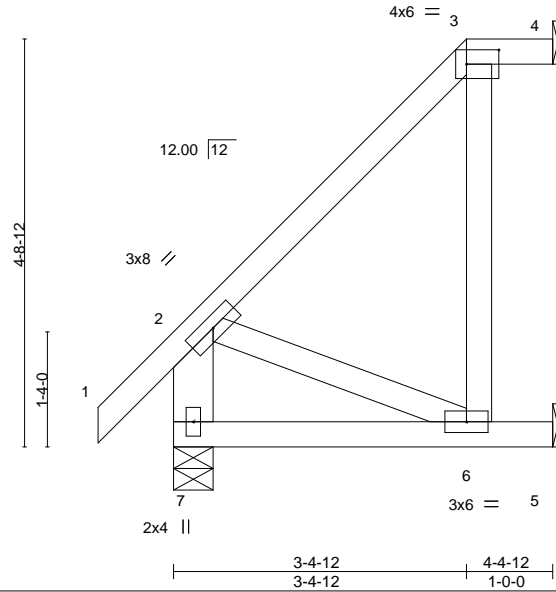


Plate Offsets (X,Y)--	[3:0-4-8,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.02	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.04	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.04	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.03	6-7	>999	Weight: 31 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins: 3-4.
WEBS 2x4 SP No.3 *Except* 2-7: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 4=28/Mechanical, 7=239/0-5-8, 5=127/Mechanical  
 Max Horz 7=117(LC 12)  
 Max Uplift 4=9(LC 8), 5=71(LC 12)  
 Max Grav 4=28(LC 1), 7=239(LC 1), 5=147(LC 19)

**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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

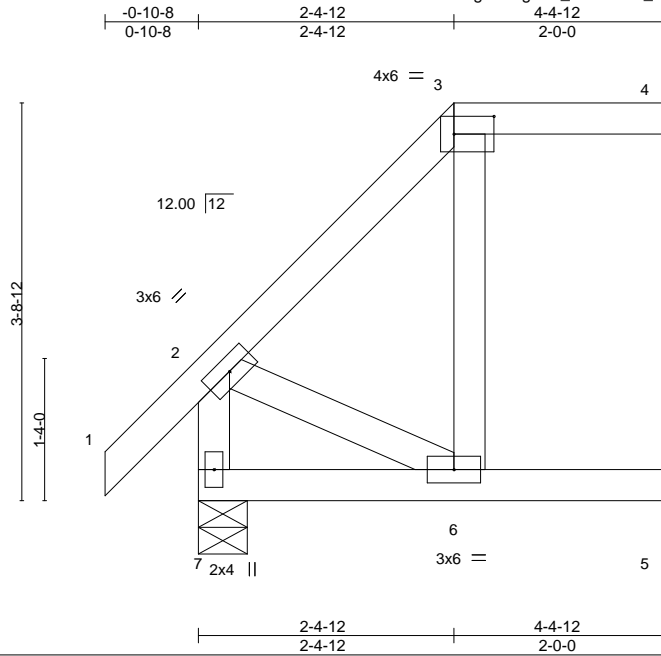
818 Soundside Road  
 Edenton, NC 27932

Job 812025	Truss J222	Truss Type Half Hip	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204685
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:33 2019 Page 1

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Scale = 1:21.6

Plate Offsets (X,Y)--	[3:0-4-8,0-2-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.02 6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.05 6 >924 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.10 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.06 6 >881 240	Weight: 26 lb	FT = 20%

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

**REACTIONS.** (lb/size) 4=58/Mechanical, 7=236/0-5-8, 5=102/Mechanical  
 Max Horz 7=88(LC 9)  
 Max Uplift 4=-18(LC 8), 5=-30(LC 12)  
 Max Grav 4=58(LC 1), 7=236(LC 1), 5=107(LC 19)

**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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019



Job 812025	Truss J224	Truss Type Half Hip Girder	Qty 4	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204687
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8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:35 2019 Page 1

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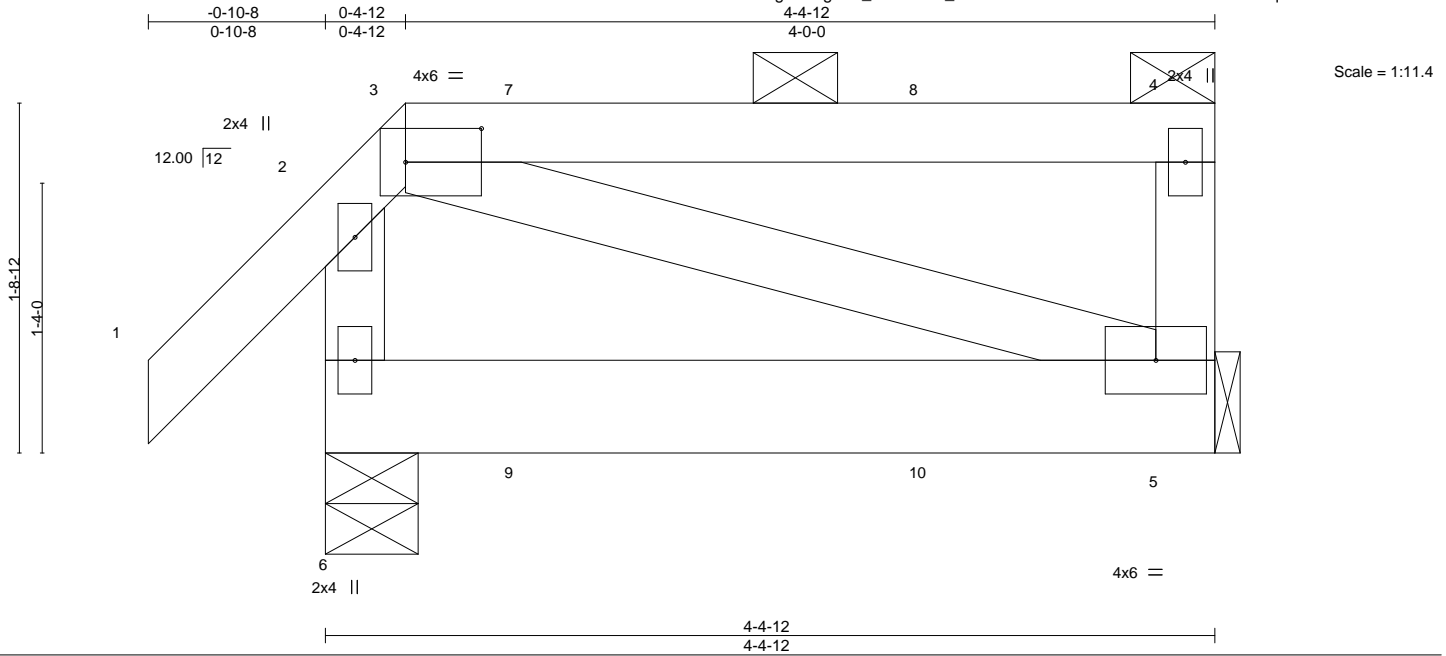


Plate Offsets (X,Y)--	[3:0-4-8,0-2:0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.00	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	-0.00	6	>999	Weight: 28 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

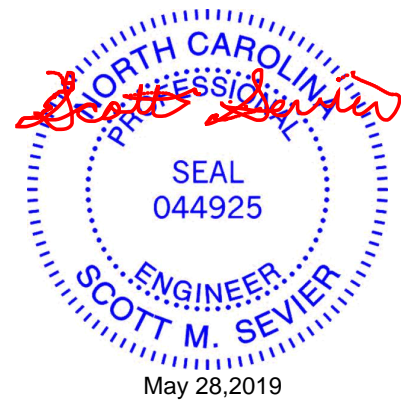
**REACTIONS.** (lb/size) 6=227/0-5-8, 5=159/Mechanical  
 Max Horz 6=41(LC 5)  
 Max Uplift 6=-12(LC 8), 5=-20(LC 5)  
 Max Grav 6=227(LC 1), 5=165(LC 20)

**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=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
  - 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) 6, 5.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 16 lb down and 22 lb up at 1-0-12, and 17 lb down and 23 lb up at 3-0-12 on top chord, and 7 lb down at 1-0-12, and 6 lb down at 3-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**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=-20, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 9=-3(F) 10=-3(F)



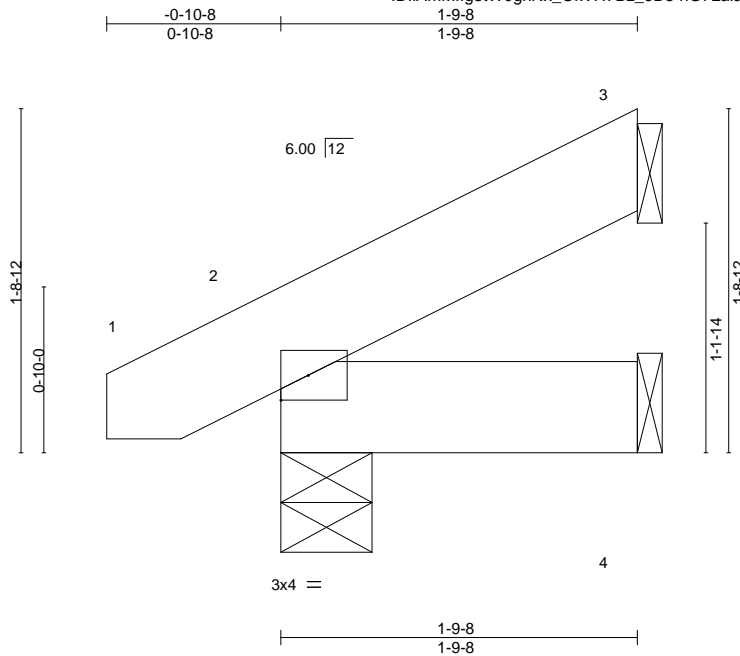


Job 812025	Truss J225	Truss Type Jack-Open	Qty 8	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204688
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:35 2019 Page 1

ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-hG7Lala8vCJcAebDE41H8O45mtHNihvww0UH6izDK6E



Scale = 1:11.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	7	>999		
								Weight: 11 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 1-9-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=43/Mechanical, 2=120/0-5-8, 4=21/Mechanical  
Max Horz 2=36(LC 12)  
Max Uplift 3=-20(LC 12), 2=-3(LC 12)  
Max Grav 3=43(LC 1), 2=120(LC 1), 4=33(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



May 28, 2019

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

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



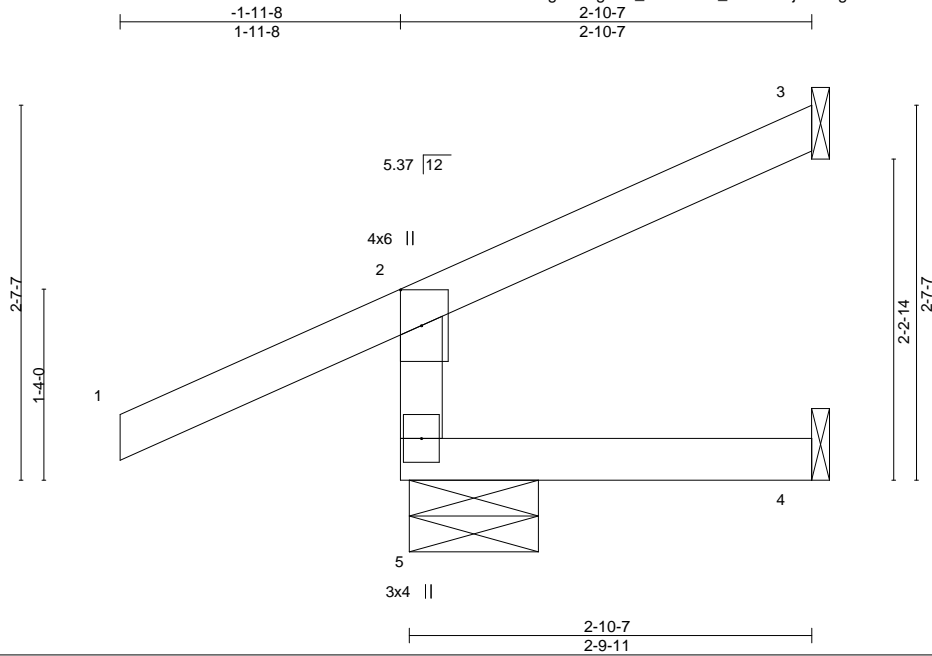
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss J226	Truss Type Jack-Open Structural Gable	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204689
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Builders First Source, Sumter SC

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ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-9Shjo5amgWRTno9PnoYWhcdA1HcJ18929gDqf8zDK6D



Scale: 3/4"=1'

Plate Offsets (X,Y)--	[2:0-3-0-0-1-12]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.00 4-5 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.00 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR	Wind(LL) 0.00 4-5 >999 240	Weight: 14 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (lb/size) 3=42/Mechanical, 5=282/0-10-13, 4=15/Mechanical  
 Max Horz 5=60(LC 12)  
 Max Uplift 3=-32(LC 12), 5=-32(LC 8)  
 Max Grav 3=42(LC 1), 5=282(LC 1), 4=46(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.



May 28, 2019

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Job 812025	Truss J227	Truss Type Half Hip Girder	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204690
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:37 2019 Page 1

ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-deE5?RbORpZKPYkLV3lDp9OkugumbQBOKzOBazDK6C

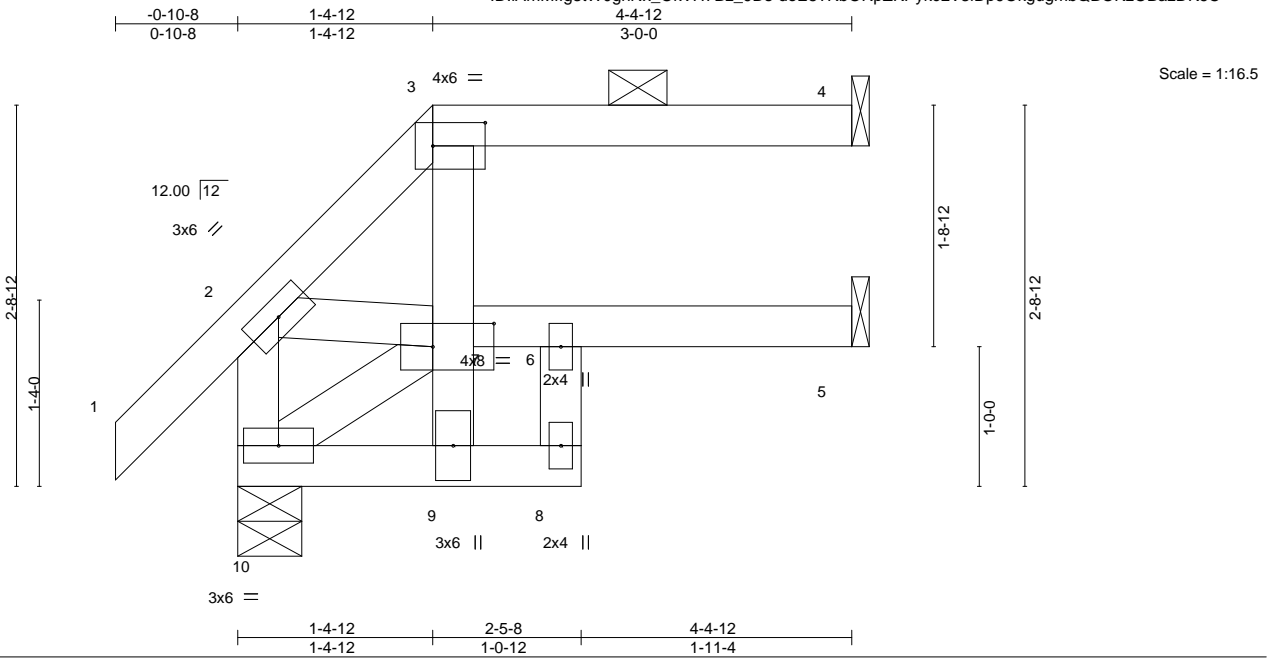


Plate Offsets (X,Y)--	[3:0-4-8,0-2-0], [7:0-5-4,0-2-0]
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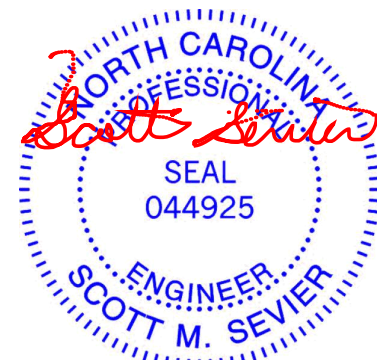
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(LL) -0.02 8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) -0.05 8 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.08 4 n/a n/a	Weight: 27 lb	FT = 20%
	Code IRC2015/TPI2014		Wind(LL) 0.04 8 >999 240		

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

**REACTIONS.** (lb/size) 4=88/Mechanical, 5=78/Mechanical, 10=245/0-5-8  
 Max Horz 10=66(LC 9)  
 Max Uplift 4=-28(LC 8)  
 Max Grav 4=88(LC 1), 5=107(LC 3), 10=245(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 6-8=-207/267, 7-9=-381/341

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Affiliate</small></p> <p>818 Soundside Road        Edenton, NC 27932</p>
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Job 812025	Truss J228	Truss Type Half Hip	Qty 4	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204691
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:38 2019 Page 1  
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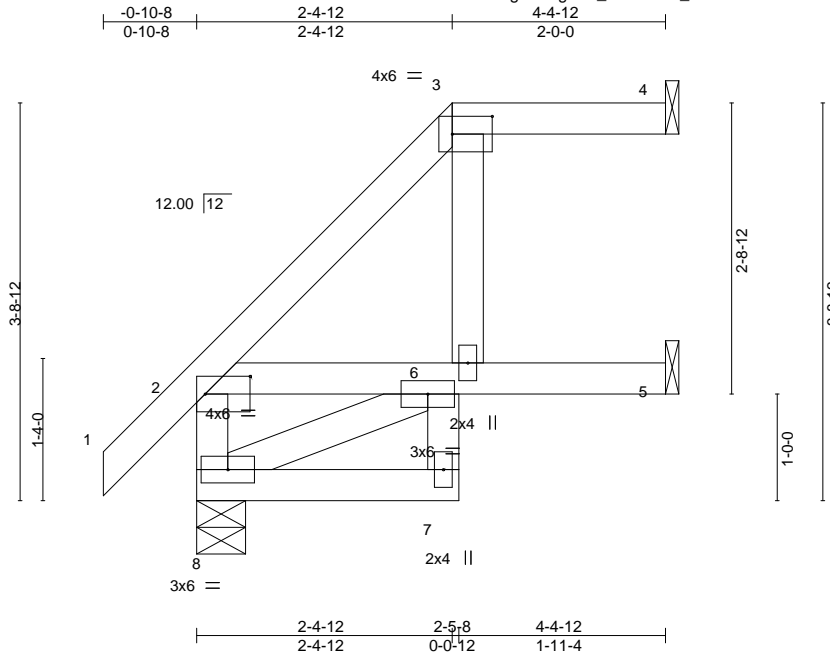


Plate Offsets (X,Y)--	[2:0-5-1,0-2-0], [3:0-4-8,0-2-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.03 6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.06 6 >851 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.12 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.07 6 >759 240	Weight: 29 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-7: 2x4 SP No.2	

**REACTIONS.** (lb/size) 4=58/Mechanical, 5=102/Mechanical, 8=236/0-5-8  
 Max Horz 8=89(LC 12)  
 Max Uplift 4=-18(LC 8), 5=-31(LC 12)  
 Max Grav 4=58(LC 1), 5=107(LC 19), 8=236(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



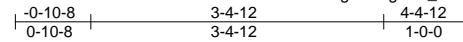
May 28, 2019

Job 812025	Truss J229	Truss Type Half Hip	Qty 4	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204692
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8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:39 2019 Page 1

ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds-Z1MsQ7dfzRq2fFu\_Tw5DJEEiUUaoEU4UrdSUFTzDK6A



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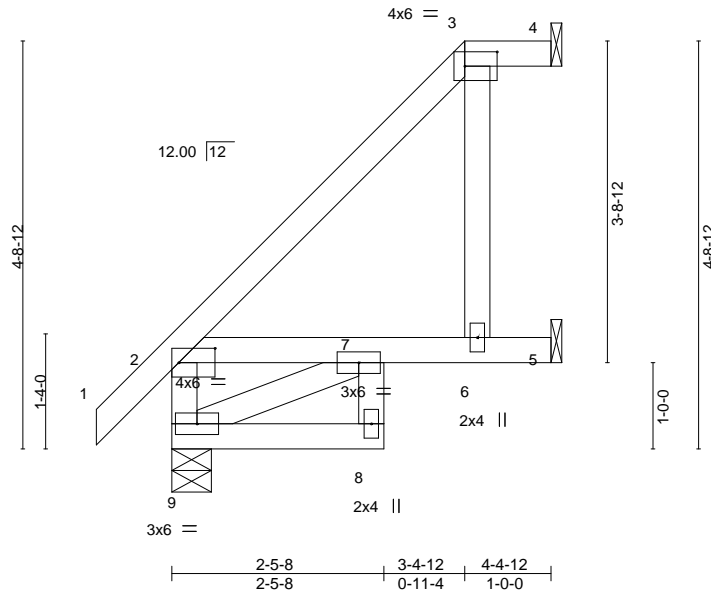


Plate Offsets (X, Y)--	[2:0-5-1,0-2-0], [3:0-4-8,0-2-0]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	0.05	7	>979	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.04	8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.07	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						
								Weight: 31 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 7-8: 2x4 SP No.2	

**REACTIONS.** (lb/size) 4=28/Mechanical, 5=132/Mechanical, 9=236/0-5-8  
 Max Horz 9=120(LC 12)  
 Max Uplift 4=-9(LC 8), 5=-71(LC 12)  
 Max Grav 4=28(LC 1), 5=151(LC 19), 9=236(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2019

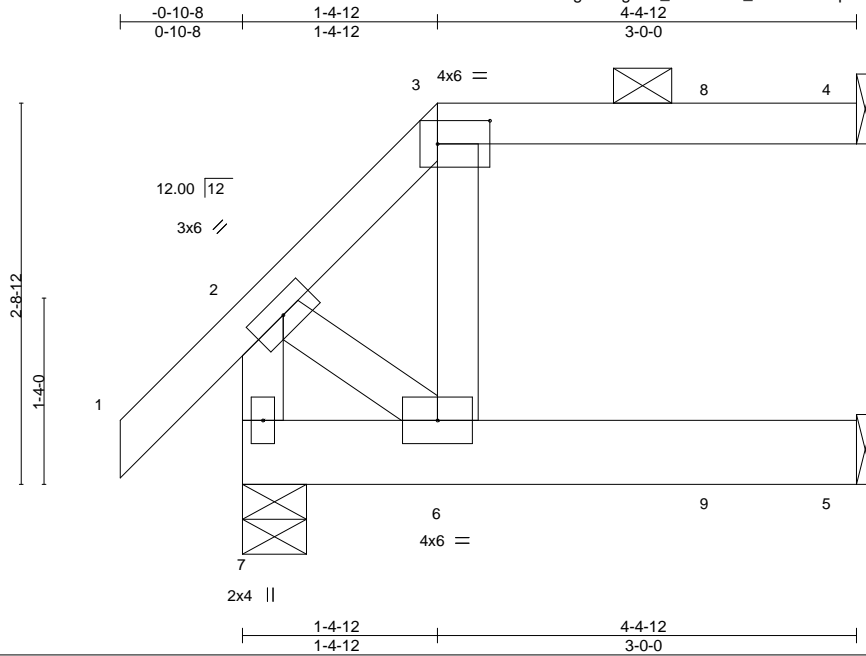
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY  <b>TRENCO</b>        A MiTek Affiliate</p> <p>818 Soundside Road        Edenton, NC 27932</p>
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Job 812025	Truss J231	Truss Type Half Hip Girder	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204694
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8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:41 2019 Page 1  
ID:AmMfg3tW0ghNx\_OkVH7Bz\_9Ds-VQUcrpevU24muZ2NaL8hOfK0mIECiOknlxxbKLzDK68



Scale = 1:16.5

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

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.02	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.04	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.04	Horz(CT)	0.06	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.01	6	>999		
								Weight: 26 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 4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=206/Mechanical, 7=445/0-5-8, 5=211/Mechanical  
Max Horz 7=64(LC 5)  
Max Uplift 4=-16(LC 4)  
Max Grav 4=206(LC 1), 7=445(LC 1), 5=215(LC 20)

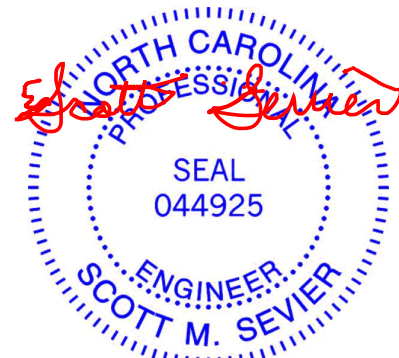
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 3-6=-306/22

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- 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) 4.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 183 lb down and 18 lb up at 1-4-12, and 168 lb down and 14 lb up at 3-5-8 on top chord, and 67 lb down at 1-5-8, and 68 lb down at 3-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20  
Concentrated Loads (lb)  
Vert: 3=-164(B) 6=-67(B) 8=-168(B) 9=-68(B)



May 28, 2019

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

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818 Soundside Road  
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Job 812025	Truss J232	Truss Type GABLE COMMON	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204695
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:42 2019 Page 1  
ID:iAmMfg3tW0ghNx\_OkVH7Bz\_9Ds\_c2\_28fXfMcDwJdZ82fwmtsFFhgWRrRwXbg8sozDK67

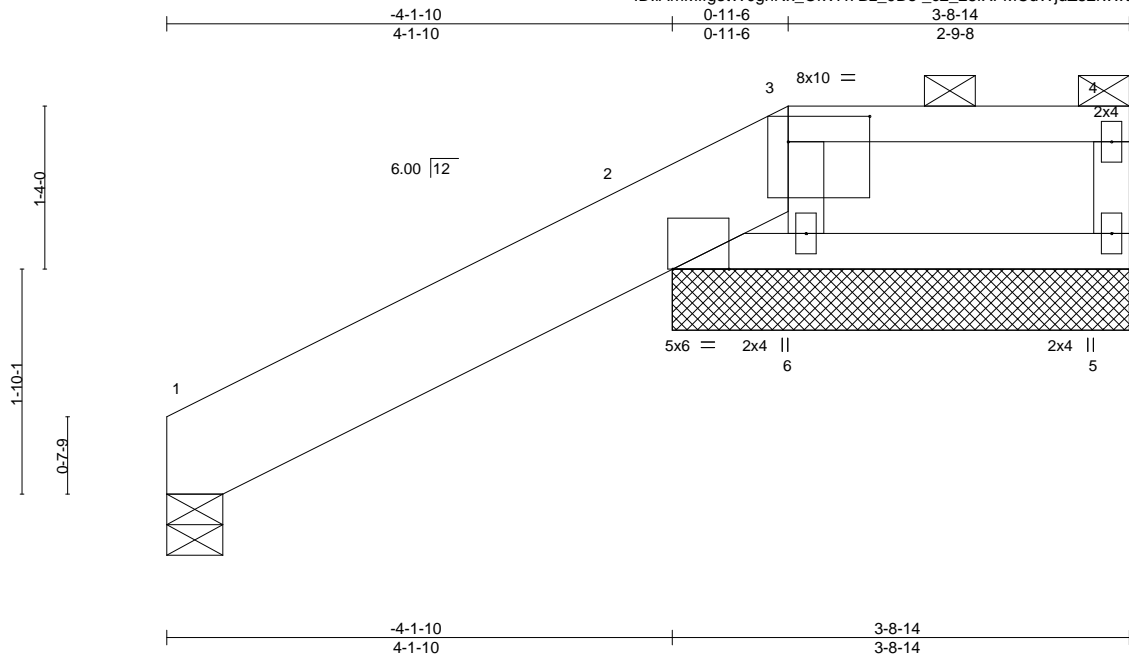


Plate Offsets (X,Y)--	[2:0-5-8,0-0-0], [3:0-8-0,0-2-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.00 5-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) -0.00 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00 6 **** 240	Weight: 35 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x10 SP DSS *Except* 3-4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-14 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 3-8-14 except (jt=length) 1=0-5-8.  
 (lb) - Max Horz 2=84(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 6  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=341(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) Provide adequate drainage to prevent water ponding.
  - 4) Gable studs spaced at 2-0-0 oc.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 6.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



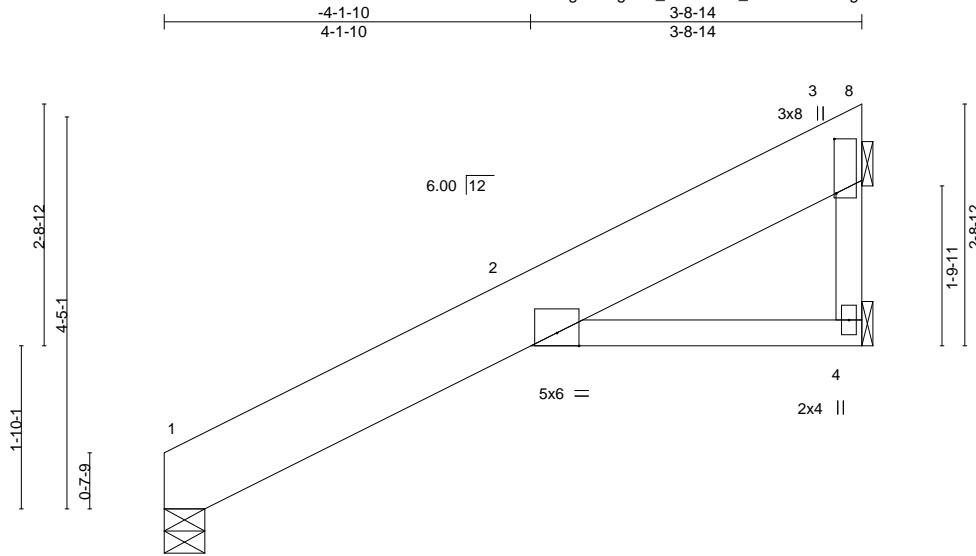
May 28, 2019



Job 812025	Truss J233	Truss Type Jack-Open	Qty 4	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204696
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Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:43 2019 Page 1  
ID:iiAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-SocNGUg90fKU7tClimAAT4PRO5?2Alu4mFQiPEzDK66



Scale = 1:26.0

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

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 0.10	Vert(LL)	-0.02	5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.03	5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.02	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.03	5	>999	240	Weight: 44 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-8-14 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=313/0-5-8, 4=87/Mechanical, 3=224/Mechanical  
Max Horz 3=126(LC 9)  
Max Uplift 1=45(LC 12), 3=-2(LC 12)  
Max Grav 1=313(LC 1), 4=87(LC 3), 3=224(LC 1)

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

**NOTES-**

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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Job 812025	Truss J234	Truss Type Jack-Open	Qty 10	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204697
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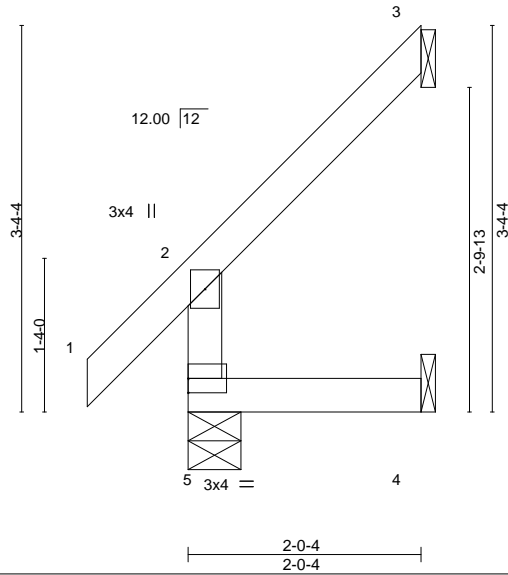
Builders First Source, Sumter SC

8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:43 2019 Page 1

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Scale = 1:20.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL) -0.00	4-5 >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT) -0.00	4-5 >999	180		
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-MR				Weight: 11 lb	FT = 20%

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

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

**REACTIONS.** (lb/size) 5=151/0-5-8, 3=39/Mechanical, 4=16/Mechanical  
Max Horz 5=77(LC 9)  
Max Uplift 3=-55(LC 12), 4=-16(LC 12)  
Max Grav 5=151(LC 1), 3=58(LC 19), 4=34(LC 10)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.



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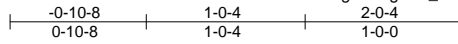


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Job 812025	Truss J235	Truss Type Half Hip Girder	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204698
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8.240 s May 13 2019 MiTek Industries, Inc. Fri May 24 09:53:44 2019 Page 1  
ID:iAmMffg3tW0ghNx\_OkVH7Bz\_9Ds-w?AITqhnzSL1nyFThP0lycOVLBvID?v9FgzDK65



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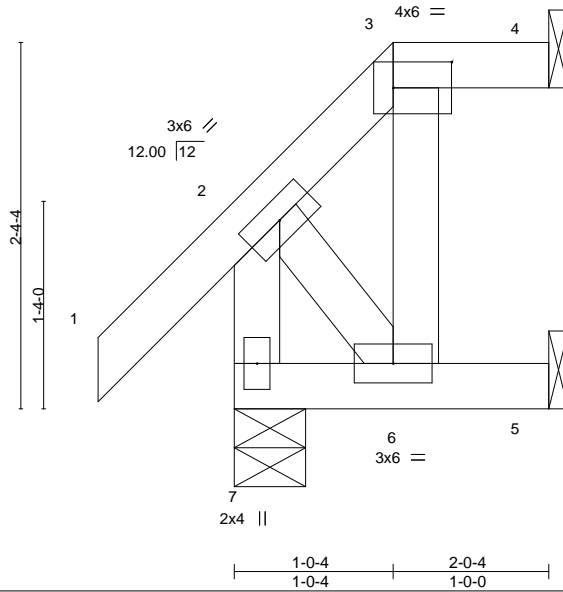


Plate Offsets (X,Y)--	[3:0-4-8,0-2-0]						
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	0.00	6	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.00	6	>999
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	-0.01	4	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP				
							<b>PLATES</b>
							MT20
							<b>GRIP</b>
							244/190
							Weight: 15 lb
							FT = 20%

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

**REACTIONS.** (lb/size) 4=28/Mechanical, 7=170/0-5-8, 5=48/Mechanical  
 Max Horz 7=58(LC 5)  
 Max Uplift 4=-9(LC 4), 7=-9(LC 4), 5=-41(LC 5)  
 Max Grav 4=28(LC 1), 7=170(LC 1), 5=66(LC 25)

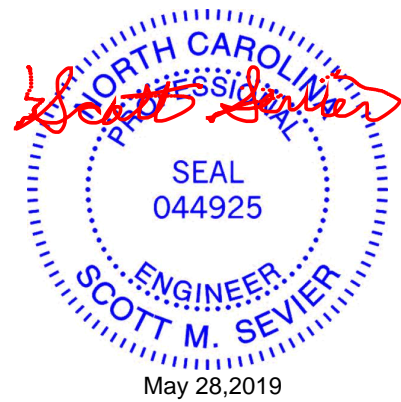
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7, 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 50 lb up at 1-0-4 on top chord, and 22 lb down and 18 lb up at 1-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20  
 Concentrated Loads (lb)  
 Vert: 3=-21(B) 6=-19(B)

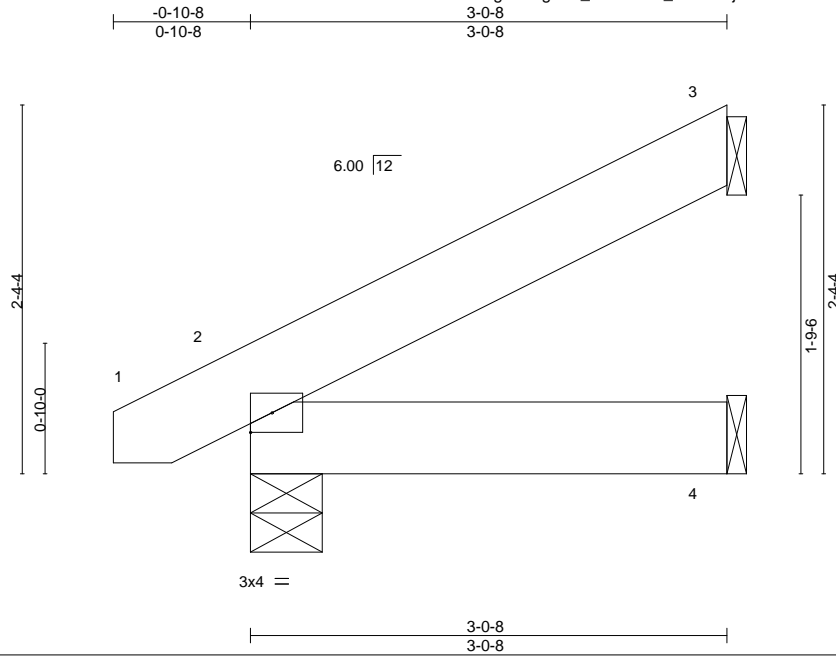


Job 812025	Truss J236	Truss Type Jack-Open	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204699
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Builders First Source, Sumter SC

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Scale = 1:14.7

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 0.05	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	7	>999	240		
									Weight: 18 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-0-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=77/Mechanical, 2=165/0-5-8, 4=29/Mechanical  
Max Horz 2=55(LC 12)  
Max Uplift 3=35(LC 12), 2=-3(LC 12)  
Max Grav 3=77(LC 1), 2=165(LC 1), 4=56(LC 3)

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

**NOTES-**

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 50 lb up at 2-11-12 on top chord, and 2 lb down and 8 lb up at 2-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 4-5=-20  
Concentrated Loads (lb)  
Vert: 4=8(F)



May 28, 2019

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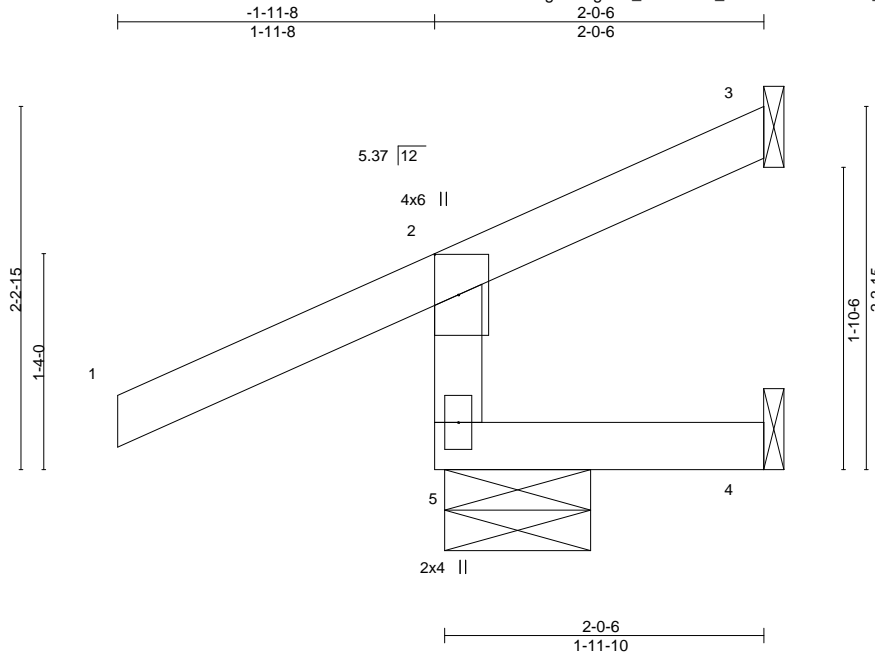
818 Soundside Road  
Edenton, NC 27932

Job 812025	Truss J237	Truss Type Jack-Open Structural Gable	Qty 2	Ply 1	H&H/Jessamine/ Job Reference (optional)	137204700
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Scale = 1:14.2

Plate Offsets (X,Y)--	[2:0-3-0,0-1-12]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) 0.00 5 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) 0.00 5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR	Wind(LL) 0.00 5 >999 240	Weight: 11 lb	FT = 20%

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

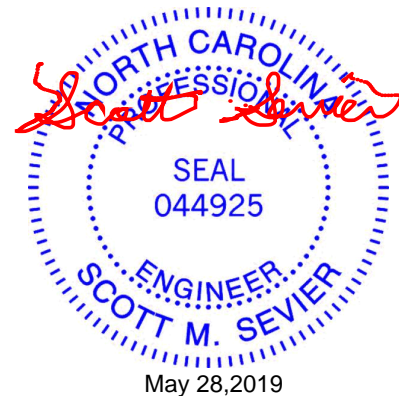
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-0-6 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=1/Mechanical, 5=272/0-10-13, 4=1/Mechanical  
 Max Horz 5=48(LC 12)  
 Max Uplift 3=-19(LC 12), 5=-40(LC 8)  
 Max Grav 3=3(LC 8), 5=272(LC 1), 4=29(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.



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

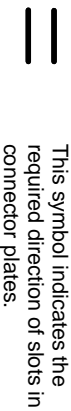
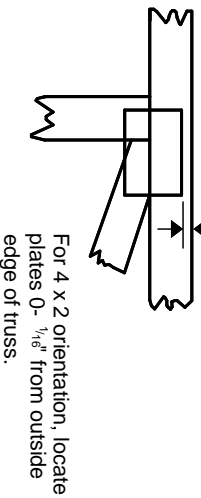
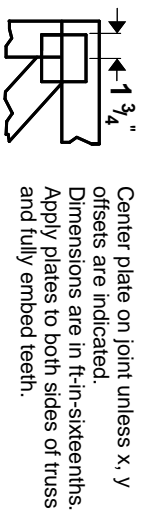
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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 Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



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

## PLATE SIZE

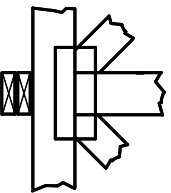
**4 X 4**

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

## LATERAL BRACING LOCATION



## BEARING

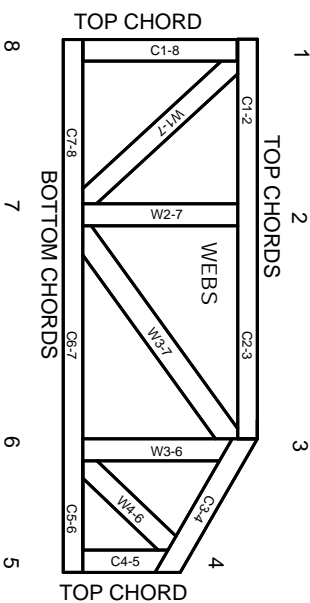


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## 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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# 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.