

RE: 2434707_MASTER - H&H/Calabash/

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Project Customer: H AND H Project Name: 2434707
 Lot/Block: Subdivision:
 Model:
 Address:
 City: State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.2
 Wind Code: ASCE 7-10 Wind Speed: 150 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	I42477944	A01	8/19/20	35	I42477978	A36	8/19/20
2	I42477945	A02	8/19/20	36	I42477979	A37	8/19/20
3	I42477946	A03	8/19/20	37	I42477980	A38	8/19/20
4	I42477947	A04	8/19/20	38	I42477981	A39	8/19/20
5	I42477948		8/19/20	39	I42477982	A40	8/19/20
6	I42477949	A06	8/19/20	40	I42477983		8/19/20
7	I42477950	A07	8/19/20	41	I42477984	A42	8/19/20
8	I42477951	A08	8/19/20		I42477985	A43	8/19/20
9	I42477952	A09	8/19/20	43	I42477986	A44	8/19/20
10	I42477953	A10	8/19/20	44	I42477987	A45	8/19/20
11	I42477954	A11	8/19/20	45	I42477988	A46	8/19/20
12	I42477955	A12	8/19/20	46	I42477989	A47	8/19/20
13	I42477956	A13	8/19/20	47	I42477990	A48	8/19/20
14	I42477957		8/19/20	48	I42477991	A49	8/19/20
	I42477958	A15	8/19/20	49	I42477992		8/19/20
16	I42477959	A16	8/19/20	50	I42477993	B01	8/19/20
17	I42477960	A17	8/19/20		I42477994	B02	8/19/20
18	I42477961	A18	8/19/20	52	I42477995	B03	8/19/20
19	I42477962	A19	8/19/20	53	I42477996		8/19/20
20	I42477963	A20	8/19/20	54	I42477997	B11	8/19/20
21	I42477964	A21	8/19/20	55	I42477998	B12	8/19/20
22	I42477965	A22	8/19/20	56	I42477999		8/19/20
23	I42477966		8/19/20	57	I42478000	B14	8/19/20
	I42477967	A24	8/19/20	58	I42478001	C01	8/19/20
25	I42477968	A25	8/19/20	59	I42478002	C02	8/19/20
26	I42477969	A26	8/19/20		I42478003		8/19/20
27	I42477970	A27	8/19/20	61		FG01	8/19/20
28	I42477971	A28	8/19/20	62	I42478005	FG02	8/19/20
29	I42477972	A30	8/19/20	63	I42478006	FG03	8/19/20
30	I42477973	A31	8/19/20	64	I42478007	FG04	8/19/20
31	I42477974		8/19/20	65	I42478008	G01	8/19/20
32	I42477975	A33	8/19/20	66	I42478009	G02	8/19/20
	I42477976	A34	8/19/20	67	I42478010	G03	8/19/20
34	I42477977	A35	8/19/20	68	I42478011	G04	8/19/20

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

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of North Carolina is December 31, 2020.

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.



August 19, 2020

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: 2434707_MASTER - H&H/Calabash/

No.	Seal#	Job ID#	Truss Name	Date
69	I42478012	2434707_MASTER	MASTER	8/19/20
70		2434707_MASTER	MASTER	8/19/20
71	I42478014	2434707_MASTER	MASTER	8/19/20
72	I42478015	2434707_MASTER	MASTER	8/19/20
73	I42478016	2434707_MASTER	MASTER	8/19/20
74	I42478017	2434707_MASTER	MASTER	8/19/20
75	I42478018	2434707_MASTER	MASTER	8/19/20
76	I42478019	2434707_MASTER	MASTER	8/19/20
77	I42478020	2434707_MASTER	MASTER	8/19/20
78	I42478021	2434707_MASTER	MASTER	8/19/20
79		2434707_MASTER	MASTER	8/19/20
80	I42478023	2434707_MASTER	MASTER	8/19/20
81	I42478024	2434707_MASTER	MASTER	8/19/20
82	I42478025	2434707_MASTER	MASTER	8/19/20
83	I42478026	2434707_MASTER	MASTER	8/19/20
84	I42478027	2434707_MASTER	MASTER	8/19/20
85	I42478028	2434707_MASTER	MASTER	8/19/20
86	I42478029	2434707_MASTER	MASTER	8/19/20
87	I42478030	2434707_MASTER	MASTER	8/19/20
88		2434707_MASTER	MASTER	8/19/20
89	I42478032	2434707_MASTER	MASTER	8/19/20
90	I42478033	2434707_MASTER	MASTER	8/19/20
91	I42478034	2434707_MASTER	MASTER	8/19/20
92	I42478035	2434707_MASTER	MASTER	8/19/20
93	I42478036	2434707_MASTER	MASTER	8/19/20
94	I42478037	2434707_MASTER	MASTER	8/19/20
95	I42478038	2434707_MASTER	MASTER	8/19/20
96	I42478039	2434707_MASTER	MASTER	8/19/20
97		2434707_MASTER	MASTER	8/19/20
98	I42478041	2434707_MASTER	MASTER	8/19/20
99	I42478042	2434707_MASTER	MASTER	8/19/20
100	I42478043	2434707_MASTER	MASTER	8/19/20
101	I42478044	2434707_MASTER	MASTER	8/19/20
102	I42478045	2434707_MASTER	MASTER	8/19/20
103	I42478046	2434707_MASTER	MASTER	8/19/20
104	I42478047	2434707_MASTER	MASTER	8/19/20
105	I42478048	2434707_MASTER	MASTER	8/19/20

Job 2434707_MASTER	Truss A01	Truss Type GABLE	Qty 12	Ply 1	H&H/Calabash/ Job Reference (optional)	142477944
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:31:52 2020 Page 1

ID:Tgj18SwfyF8hyT9h0Yt9kzZiYQ-bxPz0kbVyw6Mkubz1d2SCnKL4Tf2Lgpdj18XSdyma?5

-0-10-8	17-10-8	38-0-8	55-11-0	56-9-8
0-10-8	17-10-8	20-2-0	17-10-8	0-10-8

Scale = 1:100.6

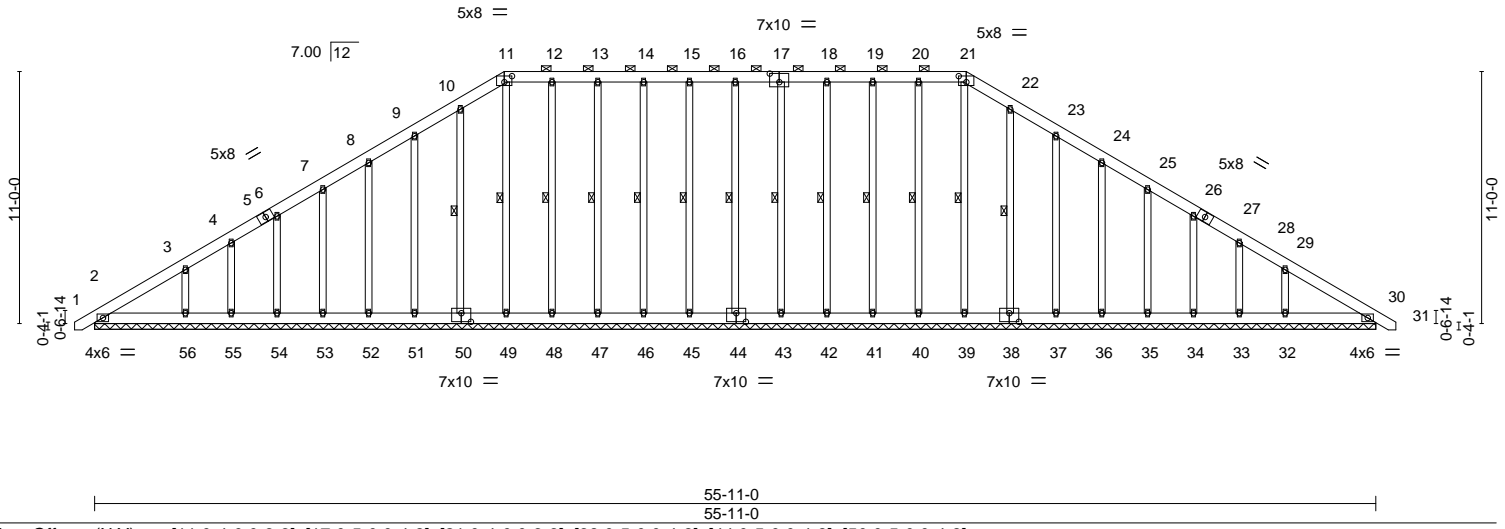


Plate Offsets (X, Y)--	[11:0-4-0,0-3-3], [17:0-5-0,0-4-8], [21:0-4-0,0-3-3], [38:0-5-0,0-4-8], [44:0-5-0,0-4-8], [50:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	0.00	31	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	0.00	31	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.02	30	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 559 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-21.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 16-44, 15-45, 14-46, 13-47, 12-48, 11-49, 10-50, 17-43, 18-42, 19-41, 20-40, 21-39, 22-38

REACTIONS. All bearings 55-11-0.
 (lb) - Max Horz 2=483(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 30, 44, 45, 46, 47, 48, 49, 55, 43, 42, 41, 40, 39, 33 except 2=-115(LC 8), 50=-116(LC 12), 51=-148(LC 12), 52=-138(LC 12), 53=-137(LC 12), 54=-144(LC 12), 56=-274(LC 12), 38=-106(LC 13), 37=-151(LC 13), 36=-138(LC 13), 35=-137(LC 13), 34=-145(LC 13), 32=-271(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 30, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33 except 2=251(LC 20), 56=375(LC 19), 32=372(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-430/390, 3-4=-309/307, 4-6=-281/291, 6-7=-254/283, 7-8=-228/308, 8-9=-249/361, 9-10=-328/419, 10-11=-388/463, 11-12=-364/441, 12-13=-363/442, 13-14=-363/442, 14-15=-363/442, 15-16=-363/442, 16-17=-363/441, 17-18=-363/440, 18-19=-363/440, 19-20=-363/440, 20-21=-363/440, 21-22=-387/461, 22-23=-327/388, 23-24=-248/295, 29-30=-281/214
 BOT CHORD 2-56=-224/330, 55-56=-224/330, 54-55=-224/330, 53-54=-224/330, 52-53=-224/330, 51-52=-224/330, 50-51=-224/330, 49-50=-225/330, 48-49=-225/329, 47-48=-225/329, 46-47=-225/329, 45-46=-225/329, 44-45=-225/329, 43-44=-225/329, 42-43=-226/330, 41-42=-226/330, 40-41=-226/330, 39-40=-226/330, 38-39=-226/330, 37-38=-225/330, 36-37=-225/330, 35-36=-225/330, 34-35=-225/330, 33-34=-225/330, 32-33=-225/330, 30-32=-225/330
 WEBS 3-56=-349/294, 29-32=-349/292

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.



August 19, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A01	GABLE	12	1		I42477944
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:31:52 2020 Page 2
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-bxPz0kbVyW6Mkubz1d2SCnKL4Tf2Lgpdj18XSdyma?5

NOTES- (12)

- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 44, 45, 46, 47, 48, 49, 55, 43, 42, 41, 40, 39, 33 except (jt=lb) 2=115, 50=116, 51=148, 52=138, 53=137, 54=144, 56=274, 38=106, 37=151, 36=138, 35=137, 34=145, 32=271.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477945
2434707_MASTER	A02	PIGGYBACK BASE	12	1		

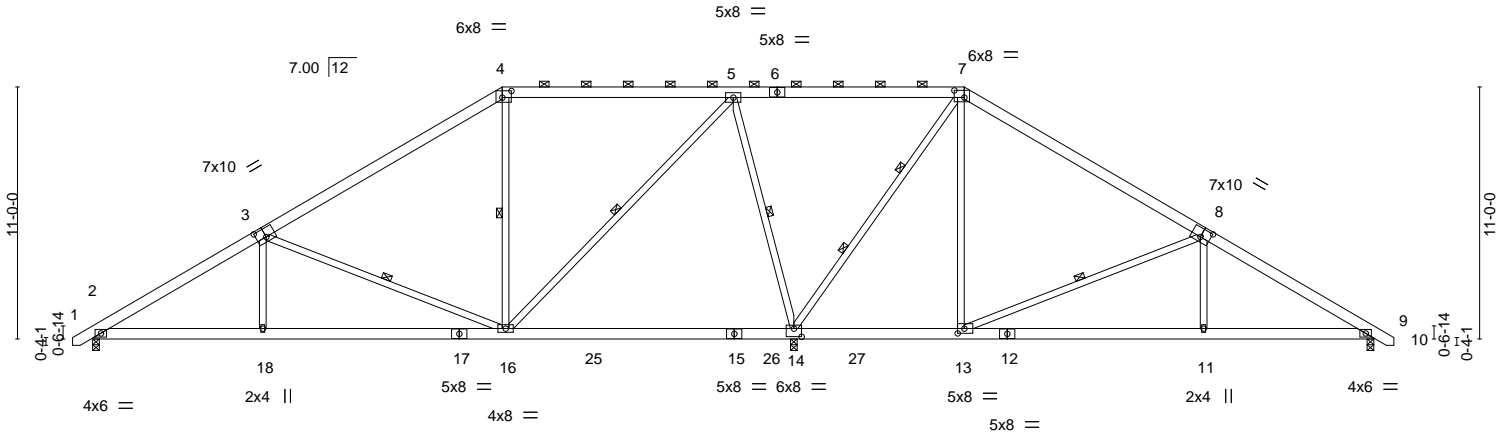
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:31:53 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-38yLD4c7jqEDL2A9bKZhk?sN4sto4ySnyhu5_3yma?4

0-10-8	7-5-2	17-10-8	27-11-8	38-0-8	48-5-14	55-11-0	56-9-8
0-10-8	7-5-2	10-5-6	10-1-0	10-1-0	10-5-6	7-5-2	0-10-8

Scale = 1:100.6



	7-5-2	17-10-8	30-7-4	38-0-8	48-5-14	55-11-0
	7-5-2	10-5-6	12-8-12	7-5-4	10-5-6	7-5-2

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

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 0.67	Vert(LL)	-0.25 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.38 14-16	>971	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.04 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08 16-18	>999	240	Weight: 410 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 4-7.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-16,7-14: 2x4 SP No.2	WEBS 1 Row at midpt 3-16, 4-16, 5-16, 5-14, 8-13
	2 Rows at 1/3 pts 7-14

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 9=0-3-8
 Max Horz 2=483(LC 11)
 Max Uplift 2=522(LC 12), 14=805(LC 12), 9=485(LC 13)
 Max Grav 2=1088(LC 23), 14=2742(LC 2), 9=879(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1673/885, 3-4=-872/567, 4-5=-771/651, 5-7=-22/649, 7-8=-357/342, 8-9=-1216/690
 BOT CHORD 2-18=-823/1566, 16-18=-824/1565, 14-16=-705/523, 13-14=-246/302, 11-13=-432/983, 9-11=-432/984
 WEBS 3-18=0/355, 3-16=-1234/790, 4-16=-279/289, 5-16=-564/1302, 5-14=-1536/1054, 7-14=-1386/724, 7-13=-198/644, 8-13=-1262/779, 8-11=0/407

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=522, 14=805, 9=485.
 - 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.



August 19, 2020

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477946
2434707_MASTER	A03	PIGGYBACK BASE	24	1		

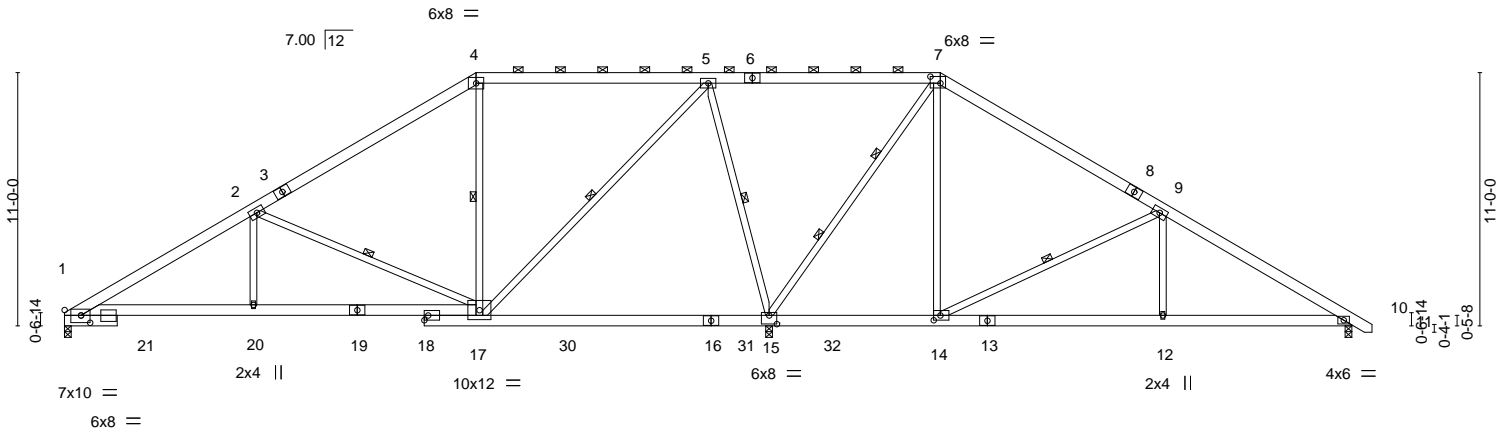
Builders FirstSource, Sumter, SC - 29153,

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ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-?W45emdNFRVxbMJYilb9qQyiggZaYr74P_NC3yyyma?2



Scale = 1:100.1



2-3-8	8-2-8	15-7-8	17-10-8	30-7-4	38-0-8	47-8-8	55-11-0
2-3-8	5-11-0	7-5-0	2-3-0	12-8-12	7-5-4	9-8-0	8-2-8

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

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 0.72	Vert(LL)	-0.22	15-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.34	15-17	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.07	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.14	17-20	>999		

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 4-7.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-17,7-15: 2x4 SP No.2	WEBS 1 Row at midpt 2-17, 4-17, 5-17, 5-15, 9-14
	2 Rows at 1/3 pts 7-15

REACTIONS. (size) 1=0-3-8, 15=0-3-8, 10=0-3-8
 Max Horz 1=-477(LC 8)
 Max Uplift 1=-424(LC 12), 15=-968(LC 12), 10=-475(LC 13)
 Max Grav 1=920(LC 23), 15=2927(LC 1), 10=860(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1508/780, 2-4=-707/462, 4-5=-613/547, 5-7=-236/897, 7-9=-265/456,
 9-10=-1109/638
 BOT CHORD 1-20=-729/1499, 17-20=-734/1499, 15-17=-960/618, 14-15=-453/428, 12-14=-360/874,
 10-12=-360/874
 WEBS 2-20=0/345, 2-17=-1288/848, 4-17=-308/302, 5-17=-634/1420, 5-15=-1625/1114,
 7-15=-1508/801, 7-14=-228/674, 9-14=-1215/747, 9-12=0/404

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=424, 15=968, 10=475.
 - 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.



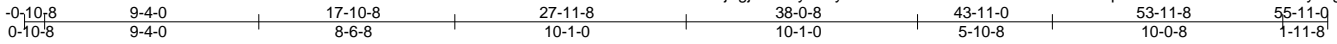
August 19, 2020

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477948
2434707_MASTER	A05	PIGGYBACK BASE	12	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:31:58 2020 Page 1

ID:jtGj18SwfyF8hyT9h0Y19kzZiYQ-Q5mEGnfGYMtWSp27Nt8sR2aCBtZXICUW5ybsgGyma??



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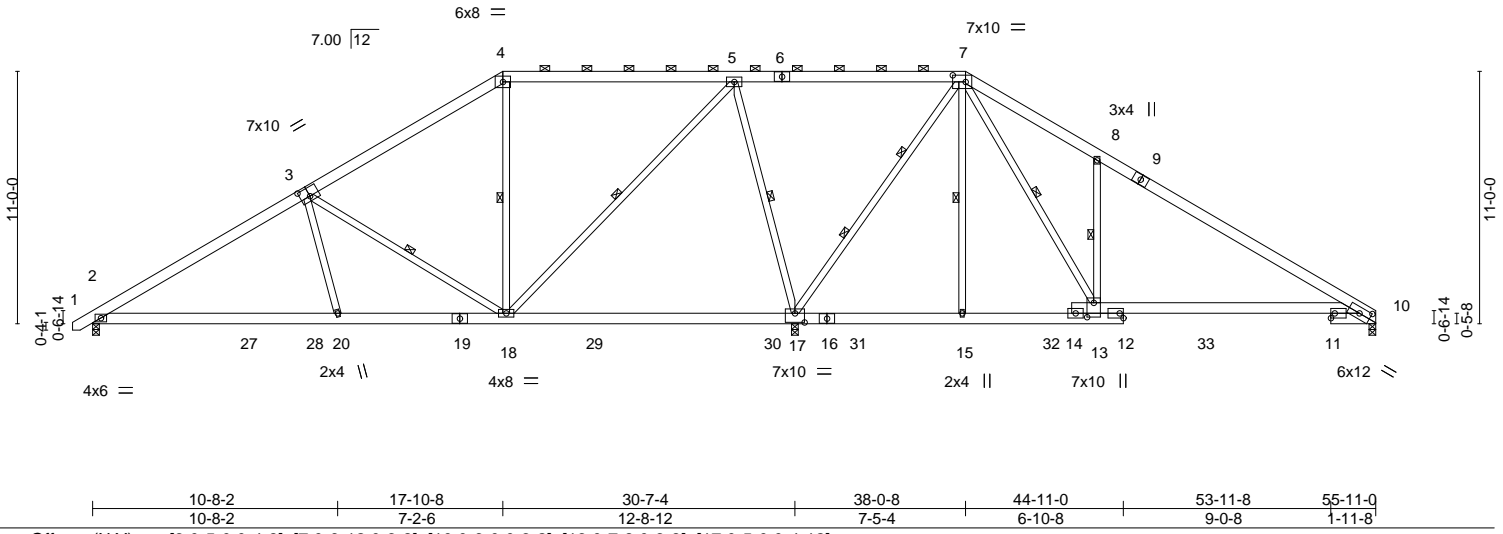


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [7:0-6-12,0-3-8], [10:0-6-0,0-3-2], [13:0-7-8,0-3-8], [17:0-5-0,0-4-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.24	17-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.38	17-18	>965		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.05	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.27	13-24	>999		
								Weight: 419 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except* 8-13: 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 4-7.
WEBS 2x4 SP No.3 *Except* 5-18,7-17: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 5-8-0 oc bracing: 8-13
	WEBS 1 Row at midpt 3-18, 4-18, 5-18, 5-17, 7-15, 7-13 2 Rows at 1/3 pts 7-17

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 17=0-3-8 (req. 0-3-13)
 Max Horz 2=477(LC 9)
 Max Uplift 2=-509(LC 12), 10=-362(LC 13), 17=-884(LC 13)
 Max Grav 2=1034(LC 23), 10=742(LC 20), 17=3206(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1383/700, 3-4=-725/476, 4-5=-516/536, 5-7=-169/995, 7-8=-842/777,
 8-10=-733/366
 BOT CHORD 2-20=-776/1261, 18-20=-756/1324, 17-18=-1026/668, 15-17=-546/414, 13-15=-546/413,
 10-13=-87/508, 8-13=-943/801
 WEBS 3-20=0/359, 3-18=-1172/710, 4-18=-307/247, 5-18=-620/1424, 5-17=-1664/1150,
 7-17=-1497/785, 7-13=-874/1533

- NOTES-** (11)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x8 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) WARNING: Required bearing size at joint(s) 17 greater than input bearing size.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=509, 10=362, 17=884.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



August 19,2020

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/
2434707_MASTER	A06	ATTIC	12	1	I42477949

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:00 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-MUthW4_7Dh7CVVIBKXTfXOhA1D6NpZG4zj9yma_z

NOTES- (14)

- 13) Attic room checked for L/360 deflection.
- 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. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477950
2434707_MASTER	A07	ATTIC	12	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:01 2020 Page 1

ID: jTgj18SwfyF8hyT9h0Y19kzZiYQ-qgRMupi8rHF4JHni20iZ3hCow5Z0yZHynwqWFbyma_y



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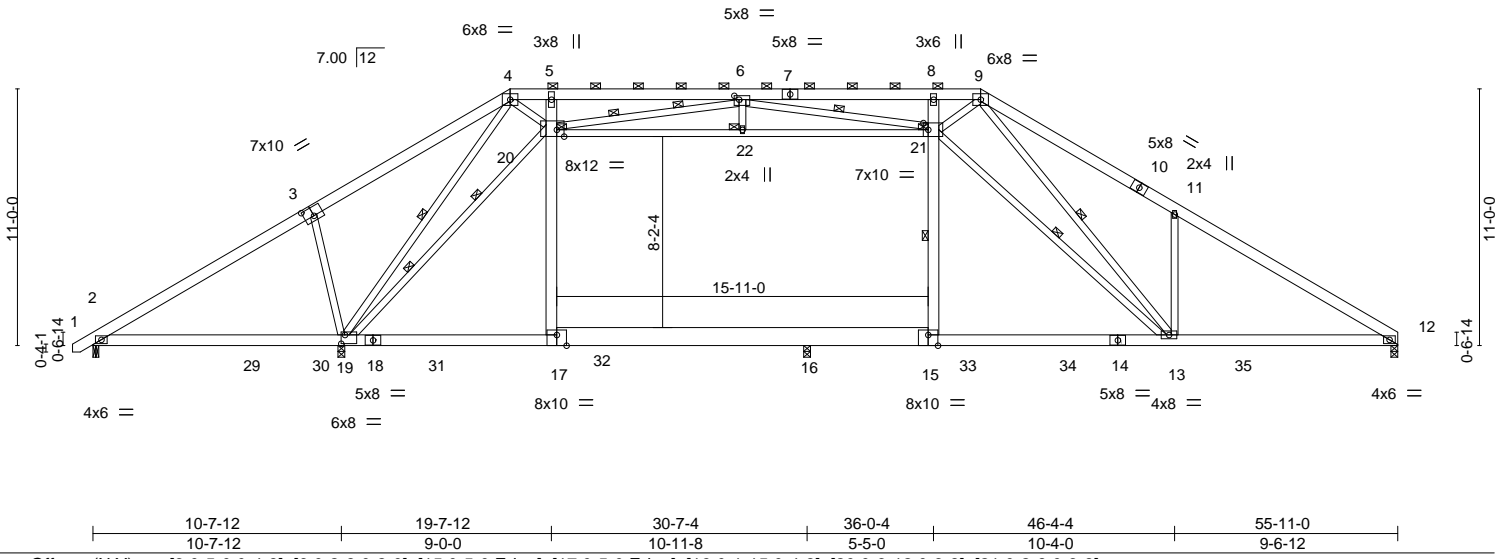


Plate Offsets (X, Y)--	[3:0-5-0,0-4-8], [6:0-2-8,0-2-0], [15:0-5-0,Edge], [17:0-5-0,Edge], [19:0-1-15,0-4-8], [20:0-3-12,0-3-8], [21:0-2-8,0-3-8]
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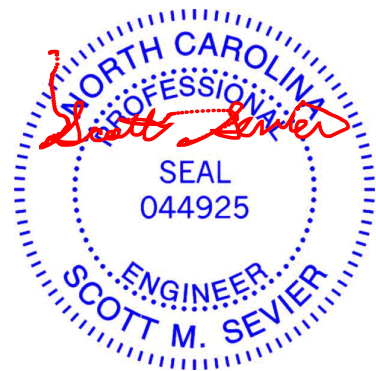
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(LL) -0.28 13-15 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Vert(CT) -0.55 13-15 >550 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) 0.06 12 n/a n/a		
			Wind(LL) 0.33 13-15 >918 240	Weight: 497 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except*	2-0-0 oc purlins (4-2-4 max.): 4-9.
15-17: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 15-21, 6-21, 4-19, 9-13, 13-21
5-17,8-15: 2x6 SP No.2, 20-21,4-19,9-13,13-21: 2x4 SP No.2	2 Rows at 1/3 pts 6-20, 19-20
19-20: 2x4 SP No.1	JOINTS 1 Brace at Jt(s): 20, 21, 22

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-3-0.
 (lb) - Max Horz 2=477(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 16 except 2=335(LC 13), 19=870(LC 9), 12=647(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=717(LC 1), 19=2186(LC 26), 12=1743(LC 21), 16=1452(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-865/586, 3-4=-948/723, 4-5=-343/250, 5-6=-304/226, 6-8=-2547/1047,
 8-9=-2543/1055, 9-11=-3189/1707, 11-12=-2969/1287
 BOT CHORD 2-19=-117/610, 17-19=-357/1699, 16-17=-359/1735, 15-16=-361/1747, 13-15=-362/1725,
 12-13=-909/2478
 WEBS 3-19=-830/746, 17-20=0/725, 5-20=-523/542, 20-22=-737/1021, 21-22=-737/1021,
 15-21=-289/494, 8-21=-404/504, 11-13=-910/792, 6-20=-2677/1509, 6-21=-605/1010,
 4-19=-781/653, 19-20=-2060/920, 9-13=-812/1087, 13-21=-505/739, 4-20=-592/475,
 9-21=-248/735

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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; porch 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.
 - Ceiling dead load (5.0 psf) on member(s). 20-22, 21-22; Wall dead load (5.0psf) on member(s). 17-20, 15-21
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17, 15-16
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 2=335, 19=870, 12=647.
 - 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.



August 19, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A07	ATTIC	12	1		I42477950
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:01 2020 Page 2

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-qgRMupi8rHF4JHni20iZ3hCow5Z0yZHynwqWfbyma_y

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



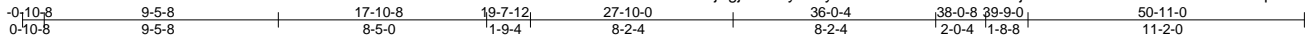
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477951
2434707_MASTER	A08	ATTIC	21	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:03 2020 Page 1

ID:jtjTg18SwfyF8hyT9h0Y19kzZiYQ-m3Z7JVjPNvVoYax4ARk186H8Uul5QWqFFEJdKUy_m_w



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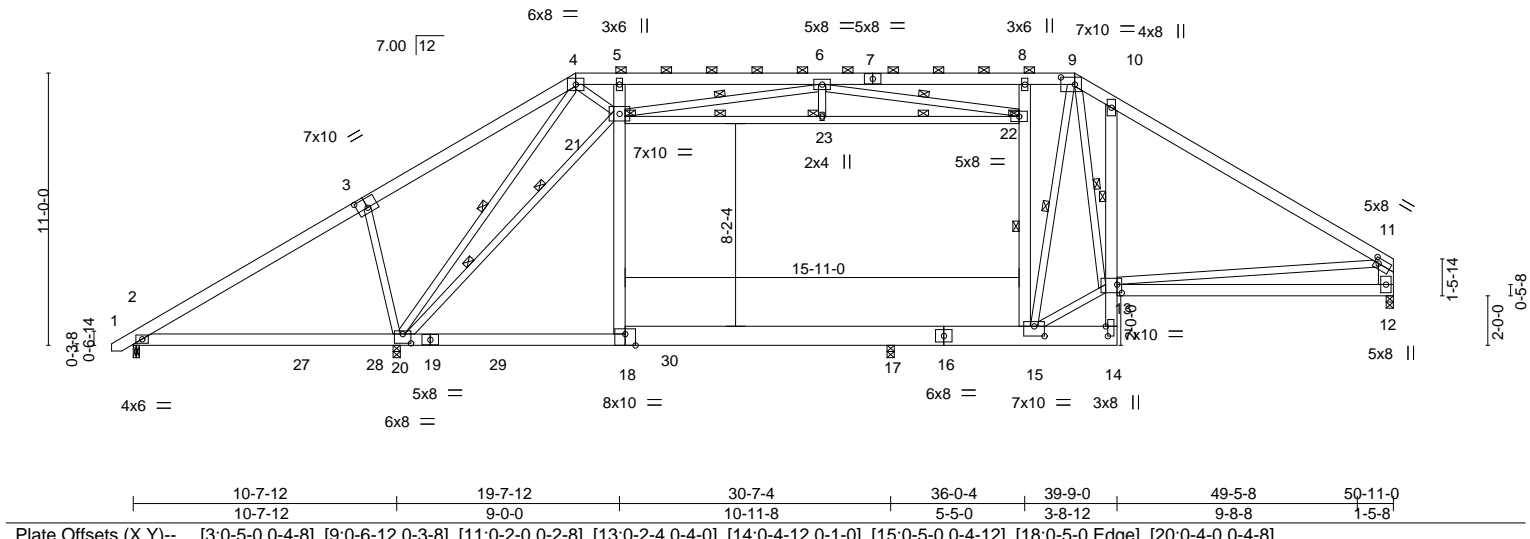


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [9:0-6-12,0-3-8], [11:0-2-0,0-2-8], [13:0-2-4,0-4-0], [14:0-4-12,0-1-0], [15:0-5-0,0-4-12], [18:0-5-0,Edge], [20:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	0.25	20-26	>521	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.24	12-13	>991		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.05	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Attic	-0.09	15-17	1529	Weight: 498 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.): 4-9.
BOT CHORD 2x6 SP No.2 *Except* 14-16,16-18: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied. Except:
WEBS 2x4 SP No.3 *Except* 5-18,8-15: 2x6 SP No.2, 21-22,4-20,20-21: 2x4 SP No.2 11-12: 2x8 SP DSS	WEBS 1 Row at midpt 10-13 21-23, 22-23, 15-22, 6-21, 6-22, 9-13, 9-15, 4-20 20-21
	JOINTS 2 Rows at 1/3 pts 20-21 1 Brace at Jt(s): 21, 22, 23

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-3-0.
 (lb) - Max Horz 2=461(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 17 except 2=-264(LC 8), 20=-915(LC 9), 12=-487(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=498(LC 1), 20=2398(LC 26), 12=1461(LC 1), 17=1333(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-483/470, 3-4=-510/578, 4-5=-592/377, 5-6=-590/368, 6-8=-1280/777, 8-9=-1288/810, 9-10=-2054/1247, 10-11=-1962/897, 11-12=-1354/736
 BOT CHORD 2-20=-224/312, 18-20=-361/1188, 17-18=-361/1219, 15-17=-354/1210, 12-13=-412/807, 13-14=-233/458, 10-13=-826/828
 WEBS 3-20=-841/752, 18-21=-777/3, 5-21=-509/535, 21-23=-790/958, 22-23=-789/957, 15-22=-824/647, 8-22=-501/490, 6-21=-1856/1239, 6-22=-1046/865, 11-13=-350/938, 9-13=-933/1740, 9-15=-504/172, 13-15=-221/1224, 4-20=-941/164, 20-21=-1441/698, 4-21=-195/609

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 21-23, 22-23; Wall dead load (5.0psf) on member(s).18-21, 15-22
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18, 15-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 2=264, 20=915, 12=487.
 - 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.



August 19,2020

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

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/
2434707_MASTER	A08	ATTIC	21	1	I42477951
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:03 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Y19kzZIYQ-m3Z7JVjPNvVoYax4ARk186H8Uul5QWqFFEJdKUyma_w

NOTES- (12)

- 11) Attic room checked for L/360 deflection.
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

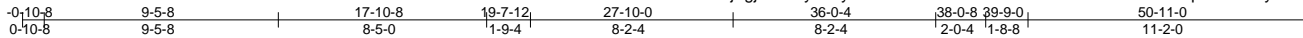
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477952
2434707_MASTER	A09	ATTIC	21	1		

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:04 2020 Page 1



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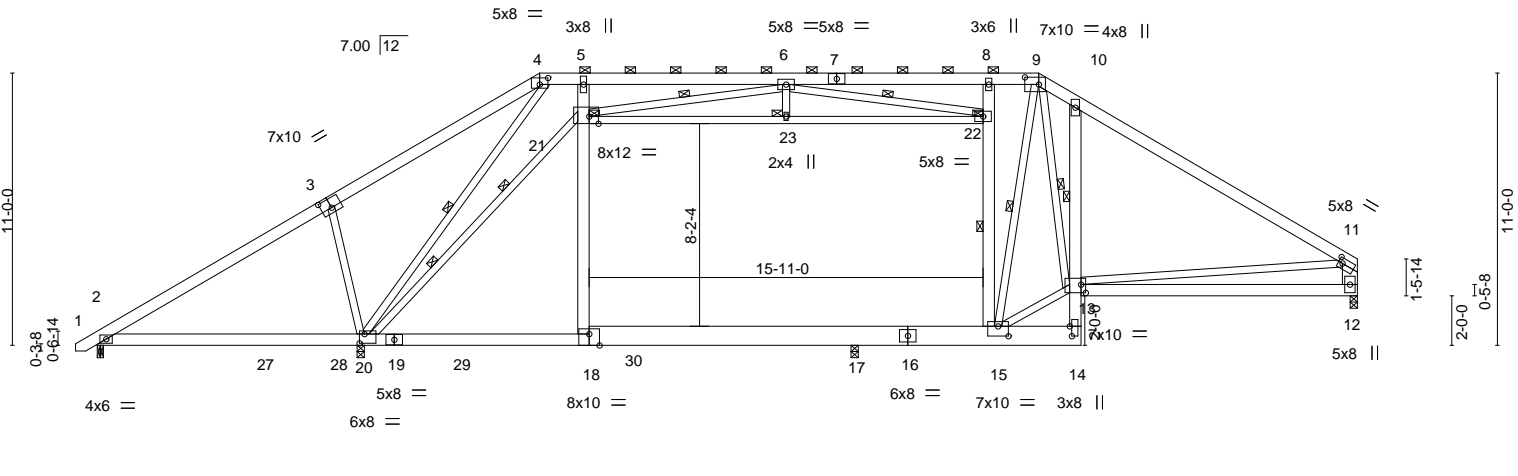


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [4:0-4-0,0-3-3], [9:0-6-12,0-3-8], [11:0-2-0,0-2-8], [13:0-2-4,0-4-0], [14:0-4-12,0-1-0], [15:0-5-0,0-4-12], [18:0-5-0,Edge], [20:0-2-7,0-4-8], [21:0-4-8,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	0.25	20-26	>522	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.24	12-13	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.05	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Attic	-0.08	15-17	1720	Weight: 496 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.): 4-9.
BOT CHORD 2x6 SP No.2 *Except* 14-16,16-18: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied. Except: 1 Row at midpt 10-13
WEBS 2x4 SP No.3 *Except* 5-18,8-15: 2x6 SP No.2, 21-22,4-20,20-21: 2x4 SP No.2 11-12: 2x8 SP DSS	WEBS 1 Row at midpt 15-22, 6-21, 6-22, 9-13, 9-15, 4-20 2 Rows at 1/3 pts 20-21
	JOINTS 1 Brace at Jt(s): 21, 22, 23

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-3-0.
 (lb) - Max Horz 2=461(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 17 except 2=-319(LC 13), 20=-942(LC 9), 12=-494(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=471(LC 1), 20=2550(LC 26), 12=1459(LC 1), 17=1295(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-513/666, 3-4=-560/799, 4-5=-574/457, 5-6=-517/398, 6-8=-1288/776, 8-9=-1289/812, 9-10=-2059/1246, 10-11=-1960/896, 11-12=-1357/736
 BOT CHORD 2-20=-418/354, 18-20=-363/1203, 17-18=-363/1224, 15-17=-356/1215, 12-13=-412/808, 13-14=-232/432, 10-13=-823/823
 WEBS 3-20=-847/751, 18-21=-7/770, 5-21=-465/550, 21-23=-749/849, 22-23=-749/849, 15-22=-803/639, 8-22=-500/489, 6-21=-1961/1240, 6-22=-946/828, 11-13=-349/928, 9-13=-925/1751, 9-15=-504/202, 13-15=-224/1233, 4-20=-859/157, 20-21=-1778/733

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 21-23, 22-23; Wall dead load (5.0psf) on member(s).18-21, 15-22
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18, 15-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 2=319, 20=942, 12=494.
 - 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.



August 19,2020

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A09	ATTIC	21	1		I42477952
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:04 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZIYQ-FF7VXrk18CdfAkVHk8FGhJqJDldm9wyOTu2Aswyma_v

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

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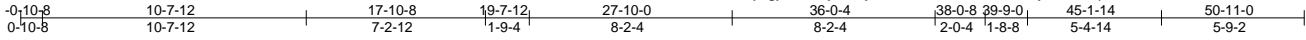
818 Soundside Road
 Edenton, NC 27932

Job 2434707_MASTER	Truss A10	Truss Type ATTIC GIRDER	Qty 21	Ply 1	H&H/Calabash/ Job Reference (optional)	142477953
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:06 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-BeFFyWmHfqtNP2frrZlkmkvdn6K3ds8hxCXHxpyma_t



Scale = 1:93.0

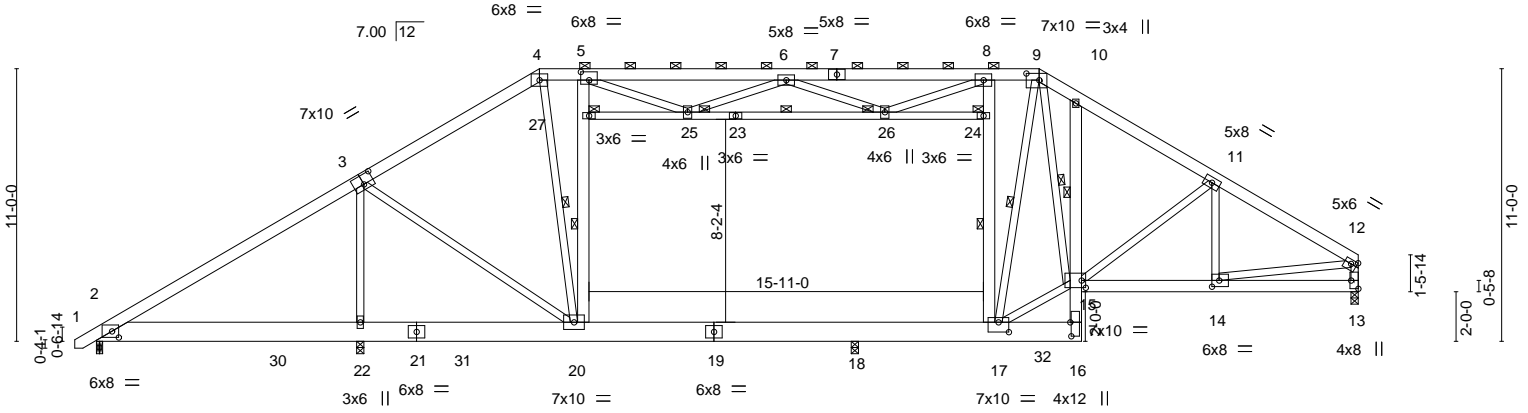


Plate Offsets (X,Y)--	[2:0-3-4,0-2-15], [3:0-5-0,0-4-8], [5:0-4-0,0-4-0], [9:0-6-4,0-3-4], [12:0-2-12,0-2-0], [13:Edge,0-3-8], [14:0-3-8,0-3-0], [15:0-2-0,0-3-8], [16:0-6-12,0-0-8], [17:0-5-0,0-4-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.54	Vert(LL) -0.16	16-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.54	Vert(CT) -0.31	16-17	>790	240		
BCLL 0.0 *	Rep Stress Incr NO		WB 0.89	Horz(CT) 0.05	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL) 0.30	16-17	>809	240		
								Weight: 525 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-9 max.): 4-9.
BOT CHORD 2x10 SP DSS *Except* 13-15,10-16: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing. Except: 1 Row at midpt 10-15
WEBS 2x4 SP No.3 *Except* 5-20,8-17: 2x6 SP No.2, 23-24,23-27: 2x4 SP No.2	WEBS 1 Row at midpt 4-20, 20-27, 25-26, 17-24, 9-15, 9-17
	JOINTS 1 Brace at Jt(s): 24, 25, 26, 27

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-3-0.
 (lb) - Max Horz 2=462(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=712(LC 4), 22=468(LC 5), 13=706(LC 4), 18=385(LC 4)
 Max Grav All reactions 250 lb or less at joint(s) except 2=1032(LC 1), 22=1862(LC 22), 13=1794(LC 1), 18=1723(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1410/1353, 3-4=-1706/873, 4-5=-1463/827, 5-6=-2143/1237, 6-8=-2249/1339, 8-9=-1504/869, 9-10=-2213/1202, 10-11=-2380/1168, 11-12=-2471/1036, 12-13=-1727/726
 BOT CHORD 2-22=-815/1115, 20-22=-812/1118, 18-20=-684/1522, 17-18=-684/1522, 16-17=-159/286, 14-15=-821/2065, 15-16=-540/812
 WEBS 3-22=-1359/405, 3-20=-322/838, 4-20=-671/889, 20-27=-968/743, 5-27=-873/746, 25-26=-977/1242, 17-24=-777/569, 8-24=-684/572, 5-25=-563/885, 6-25=-668/654, 6-26=-565/576, 8-26=-481/776, 12-14=-765/1923, 11-15=-273/293, 9-15=-885/1788, 9-17=-791/381, 15-17=-645/1551

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; porch 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.
 - Ceiling dead load (5.0 psf) on member(s). 25-27, 25-26, 24-26; Wall dead load (5.0psf) on member(s).20-27, 17-24
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-20, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 712 lb uplift at joint 2, 468 lb uplift at joint 22, 706 lb uplift at joint 13 and 385 lb uplift at joint 18.
 - Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
 - 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) 704 lb down and 623 lb up at joint 2 on the bottom chord. The design/selection of such connection device(s) is the responsibility of others.



August 19,2020

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Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/
2434707_MASTER	A10	ATTIC GIRDER	21	1	I42477953

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:06 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-BeFFyWmHfqtNP2ffrZlkmkvdn6K3ds8hxCXHxpyma_t

NOTES- (14)

- 12) Attic room checked for L/360 deflection.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 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.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-4=-60, 4-9=-60, 9-12=-60, 2-20=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
 - Drag: 20-27=-10, 17-24=-10
 - Concentrated Loads (lb)
 - Vert: 32=-635(B)

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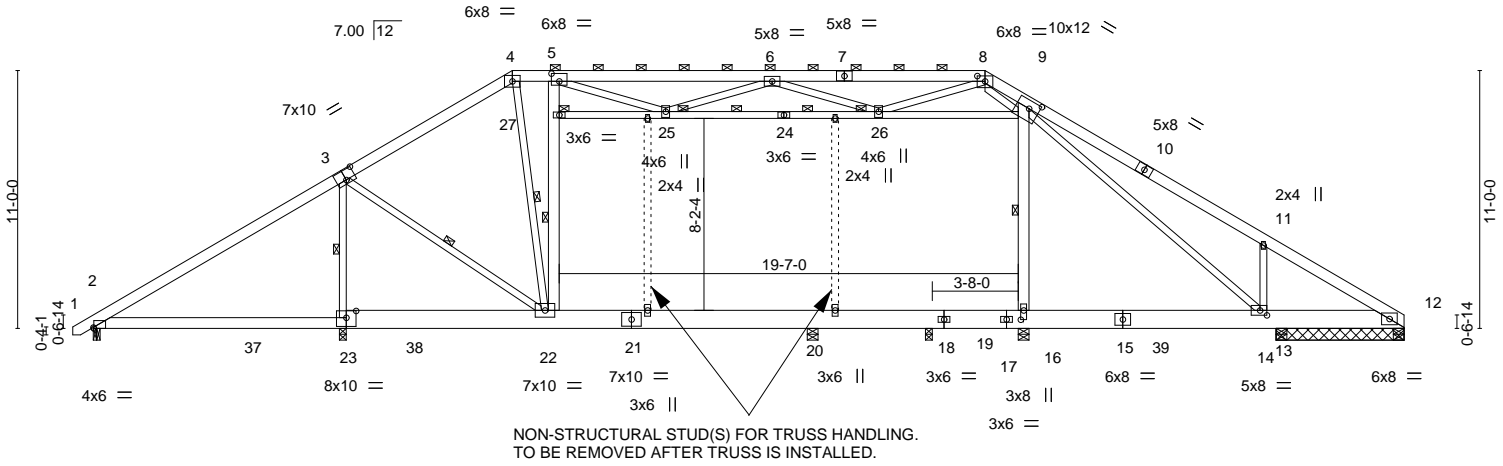
Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477954
2434707_MASTER	A11	ATTIC	21	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:07 2020 Page 1
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-fqpe9smvQ7?E1CEsPGpzJyRIDWfimJzrAsHqTFyma_s

0-10-8	10-7-12	17-10-8	19-7-12	28-11-8	38-0-8	39-8-4	49-11-0	55-11-0
0-10-8	10-7-12	7-2-12	1-9-4	9-3-12	9-1-0	1-7-12	10-2-12	6-0-0

Scale = 1:98.3



10-7-12	19-7-12	23-7-12	30-11-0	31-7-12	35-9-8	39-8-4	49-11-0	50-11-0	55-11-0
10-7-12	9-0-0	4-0-0	7-3-4	0-8-12	4-1-12	3-10-12	10-2-12	1-0-0	5-0-0

Plate Offsets (X,Y)-- [2:0-0-5,Edge], [3:0-5-0,0-5-0], [5:0-4-0,0-4-0], [8:0-4-0,0-2-12], [9:0-5-4,0-4-0], [14:0-3-8,0-2-8], [16:0-4-12,0-1-8], [23:0-5-0,0-3-8]

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 0.75	Vert(LL)	-0.13	20-22	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.22	20-22	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.16	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.22	23-34	>579		
								Weight: 540 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x10 SP DSS *Except*	2-0-0 oc purlins (5-5-0 max.): 4-8.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-22,9-16: 2x6 SP No.2, 9-24,24-27,9-14: 2x4 SP No.2	WEBS 1 Row at midpt 3-23, 22-27, 9-16, 4-22, 3-22
	2 Rows at 1/3 pts 25-26
	JOINTS 1 Brace at Jt(s): 25, 26, 27

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8, 23=0-3-14 (input: 0-3-8), 12=Mechanical, 12=Mechanical, 19=0-3-8.
 (lb) - Max Horz 23=477(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 19 except 2=882(LC 23), 23=1310(LC 9), 16=303(LC 8), 13=742(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 12, 12, 19 except 2=298(LC 9), 23=3304(LC 26), 16=1276(LC 2), 20=1348(LC 18), 13=990(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1003/2369, 3-4=-570/714, 4-5=-545/710, 5-6=-1287/1278, 6-8=-1452/1231, 8-9=-941/826, 9-11=-416/448
 BOT CHORD 2-23=-1859/968, 22-23=-1712/514
 WEBS 3-23=-2717/1378, 22-27=-1032/795, 5-27=-937/799, 25-26=-1660/2096, 9-26=-824/827, 9-16=-1127/563, 11-14=-789/712, 5-25=-842/1261, 6-25=-985/953, 6-26=-726/848, 8-26=-732/926, 4-22=-430/124, 3-22=-592/2079

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 25-27, 25-26, 9-26; Wall dead load (5.0psf) on member(s).22-27, 9-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 20-22, 19-20, 18-19, 16-17
 - WARNING:** Required bearing size at joint(s) 23 greater than input bearing size.
 - 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) 12, 19 except (jt=lb) 2=882, 23=1310, 16=303, 13=742.
 - 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.



August 19,2020

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A11	ATTIC	21	1		I42477954
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:08 2020 Page 2

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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.

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477955
2434707_MASTER	A12	ATTIC	21	1		

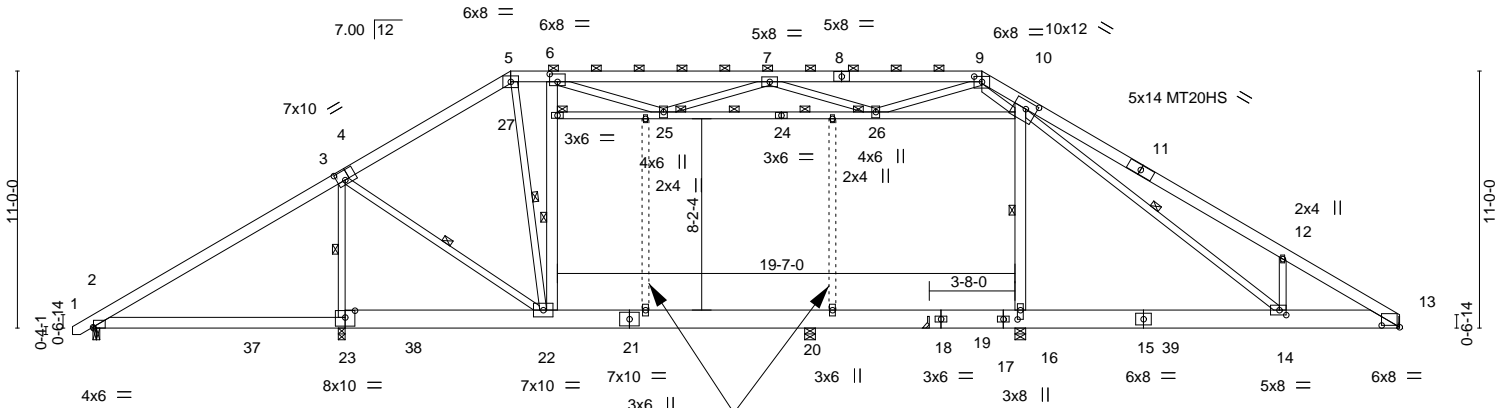
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:09 2020 Page 1

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Scale = 1:98.6



Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/
2434707_MASTER	A12	ATTIC	21	1	I42477955

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:09 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-bDwOaYo9yIFyGVOEWhrRONX5mJLBqDR7dAmxX8yma_q

NOTES- (15)

- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.
- 15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477956
2434707_MASTER	A13	ATTIC	42	1		

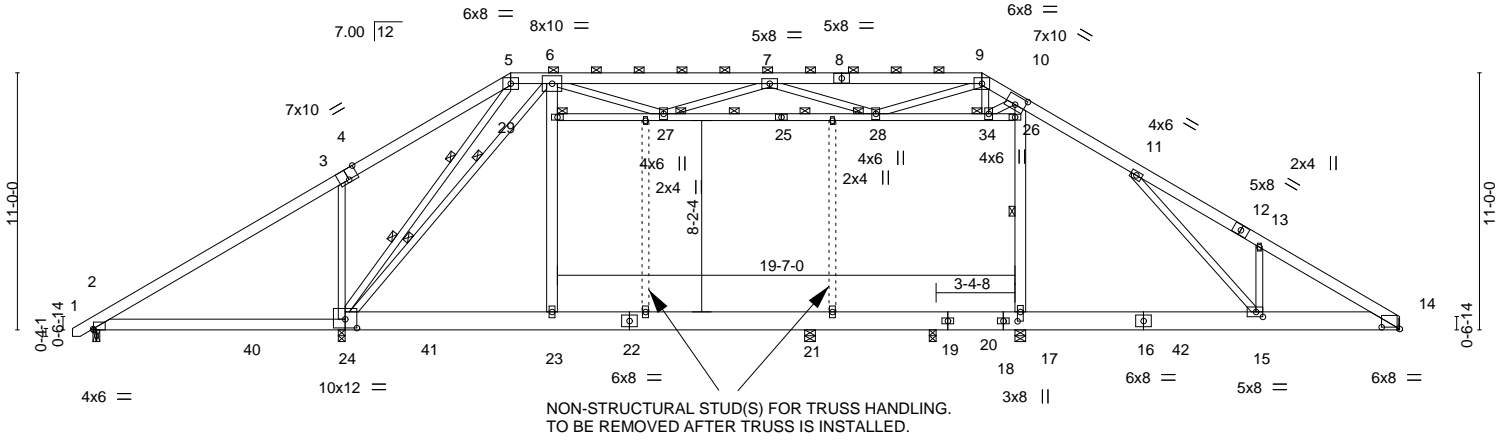
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:11 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-Yb28?EqQUMWgWpYde6tvTocPG7?NI43Q5UF2c0yma_o

0-10-8	10-7-12	17-10-8	19-7-12	28-11-8	38-0-8	39-8-4	44-5-5	49-11-0	55-11-0
0-10-8	10-7-12	7-2-12	1-9-4	9-3-12	9-1-0	1-7-12	4-9-1	5-5-11	6-0-0

Scale = 1:98.6



	10-7-12	19-7-12	23-7-12	30-11-0	31-7-12	36-1-0	39-8-4	49-11-0	55-11-0
	10-7-12	9-0-0	4-0-0	7-3-4	0-8-12	4-5-4	3-7-4	10-2-12	6-0-0

Plate Offsets (X,Y)-- [2:0-0-5,Edge], [3:0-2-0,0-0], [4:0-0-0,0-2-12], [4:0-5-0,Edge], [10:0-5-0,0-4-8], [14:0-9-4,0-0-15], [15:0-3-8,0-2-8], [17:0-4-12,0-1-8], [24:0-6-0,0-4-8]

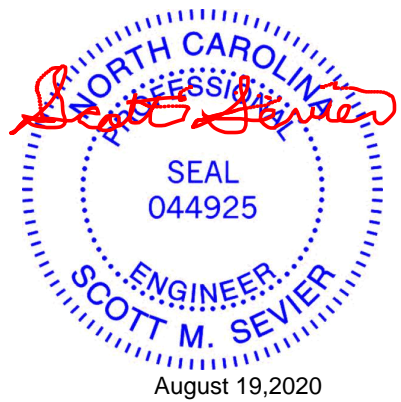
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	0.29 15-17	>659	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.23 15-17	>851	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.16 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Attic	0.02 17-18	875	360	Weight: 540 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 9-12: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-10-1 max.): 5-9.
BOT CHORD 2x10 SP DSS *Except* 2-24: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 6-23,10-17: 2x6 SP No.2, 25-26,25-29,5-24,6-24: 2x4 SP No.2	WEBS 1 Row at midpt 17-26 2 Rows at 1/3 pts 27-28, 5-24, 6-24
	JOINTS 1 Brace at Jt(s): 27, 28, 29, 34

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8, 14=Mechanical, 24=0-4-1 (input: 0-3-8), 20=0-3-8.
 (lb) - Max Horz 24=477(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 20 except 2=954(LC 23), 17=-477(LC 13), 14=-493(LC 13), 24=-1325(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 20 except 2=304(LC 9), 17=1606(LC 2), 14=723(LC 21), 24=3424(LC 26), 21=1309(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1016/2506, 3-5=-745/2498, 5-6=-380/1305, 6-7=-1184/1222, 7-9=-1268/1059, 9-10=-500/595, 10-11=-252/476, 11-13=-1121/810, 13-14=-706/409
 BOT CHORD 2-24=-1976/978, 14-15=-245/550
 WEBS 3-24=-953/819, 23-29=-5/745, 6-29=0/758, 27-28=-1686/1982, 28-34=-805/702, 17-26=-1357/763, 10-26=-1280/778, 13-15=-910/731, 6-27=-845/1187, 7-27=-908/957, 7-28=-847/933, 9-28=-773/1063, 5-24=-1508/331, 6-24=-1667/748, 11-15=-388/875, 9-34=-301/402, 10-34=-922/730

- NOTES-** (15)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 27-29, 27-28, 28-34, 26-34; Wall dead load (5.0psf) on member(s). 23-29, 17-26
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-23, 20-21, 19-20, 17-18
 - WARNING: Required bearing size at joint(s) 24 greater than input bearing size.
 - 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) 20 except (jt=lb) 2=954, 17=477, 14=493, 24=1325.



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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 ENGINEERING BY
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 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A13	ATTIC	42	1		I42477956
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:11 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZIYQ-Yb28?EqQUMWgWpYde6tvTocPG7?NI43Q5UF2c0yma_o

NOTES- (15)

- 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) Attic room checked for L/360 deflection.
- 15) 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. 5/19/2020 BEFORE USE.

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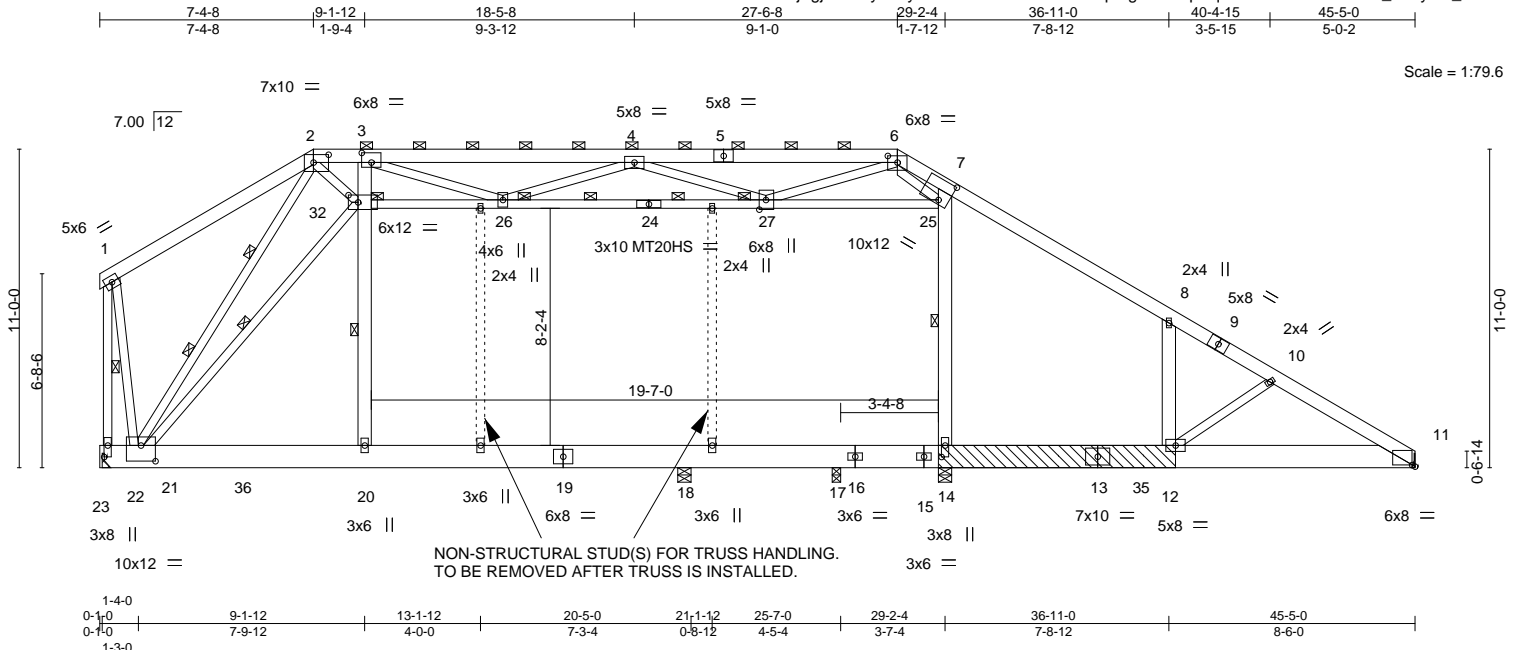
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477957
2434707_MASTER	A14	ATTIC	42	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:12 2020 Page 1

ID:Tgj18SwfyF8hyT9h0Yt9kzZiYQ-0ocXCaq2FgeW7z7pCqP80?9ZMXNL1YoaJ8_b8Tyma_n



Scale = 1:79.6

Plate Offsets (X,Y)-- [2:0-6-4,0-3-4], [3:0-4-0,0-4-0], [6:0-4-0,0-2-12], [7:0-3-3,0-0-0], [11:0-1-4,0-0-11], [14:0-4-12,0-1-8], [21:0-6-0,0-6-8], [22:0-4-12,0-1-8], [25:0-4-0,0-8-4], [27:0-4-0,0-2-12], [32:0-4-0,0-3-0]

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 0.92	Vert(LL)	-0.32 18-20	>740	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.59 18-20	>405	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.66 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Vert(LL)	0.43 20	>555	240		Weight: 525 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 6-9: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-3-5 max.): 2-6.
BOT CHORD 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 3-20,7-14,8-12: 2x6 SP No.2, 24-25,24-32,2-21: 2x4 SP No.1 2-32: 2x4 SP No.2	WEBS 1 Row at midpt 20-32, 14-25, 1-22, 21-32 2 Rows at 1/3 pts 26-27, 2-21
OTHERS 2x10 SP DSS	JOINTS 1 Brace at Jt(s): 26, 27, 32
LBR SCAB 12-14 2x10 SP DSS one side	

REACTIONS. All bearings 0-5-8 except (jt=length) 11=Mechanical, 22=Mechanical, 17=0-3-8.
 (lb) - Max Horz 22=-559(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 14=-321(LC 8), 11=-487(LC 13), 22=-369(LC 13), 18=-184(LC 9), 17=-267(LC 24)
 Max Grav All reactions 250 lb or less at joint(s) 17 except 14=2190(LC 2), 11=833(LC 21), 22=1181(LC 26), 18=1748(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-367/237, 2-3=-3403/1227, 3-4=-3444/1737, 4-6=-1993/1396, 6-7=-694/992, 7-8=-341/556, 8-10=-374/360, 10-11=-728/521, 1-22=-1418/505
 BOT CHORD 21-22=-343/553, 11-12=-369/629
 WEBS 20-32=-412/638, 3-32=-653/844, 26-32=-1372/3963, 26-27=-2368/3344, 25-27=-725/558, 14-25=-1502/594, 7-25=-1249/807, 8-12=-74/295, 3-26=-857/420, 4-26=-263/951, 4-27=-1564/980, 6-27=-822/1816, 6-25=-1173/1263, 2-21=-2312/669, 1-21=-264/1112, 21-32=-907/2520, 2-32=-934/2948, 10-12=-801/456

- NOTES-** (15)
- Attached 8-2-4 scab 12 to 14, front face(s) 2x10 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 4-6-0 from end at joint 14, nail 3 row(s) at 2" o.c. for 3-5-8.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 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.
 - Ceiling dead load (5.0 psf) on member(s). 26-32, 26-27, 25-27; Wall dead load (5.0psf) on member(s). 20-32, 14-25, 8-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-20, 17-18, 16-17, 14-15,



August 19, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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TRENCO
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 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A14	ATTIC	42	1		I42477957
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:13 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-U_AvQwrg0zmNI7h?IXwNYDhk6wjam?2jYok9gvyma_m

NOTES- (15)

- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 321 lb uplift at joint 14, 487 lb uplift at joint 11, 369 lb uplift at joint 22, 184 lb uplift at joint 18 and 267 lb uplift at joint 17.
- 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) Attic room checked for L/360 deflection.
- 15) 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. 5/19/2020 BEFORE USE.

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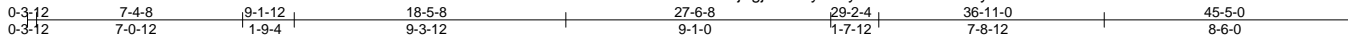
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477958
2434707_MASTER	A15	ATTIC	105	1		

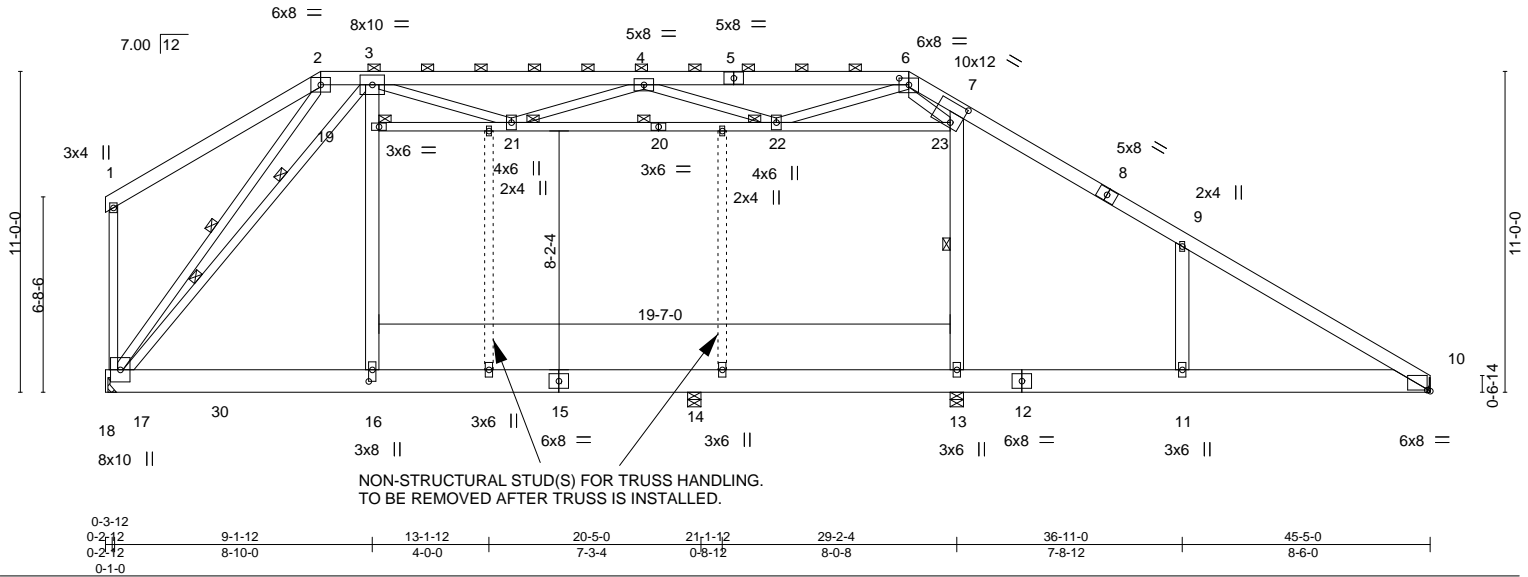
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8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:14 2020 Page 1

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Scale = 1:79.0



NON-STRUCTURAL STUD(S) FOR TRUSS HANDLING.
TO BE REMOVED AFTER TRUSS IS INSTALLED.

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.21	11-29	>921	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.40	11-29	>481		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.03	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.37	11-29	>528		
								Weight: 478 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x10 SP DSS
 WEBS 2x4 SP No.3 *Except*
 3-16,7-13,9-11: 2x6 SP No.2, 19-20,20-23,2-17: 2x4 SP No.2
 3-17: 2x4 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-7-13 max.): 2-6.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 21-22, 13-23, 2-17
 2 Rows at 1/3 pts 3-17
 JOINTS 1 Brace at Jt(s): 19, 21, 22

REACTIONS. All bearings 0-5-8 except (jt=length) 10=Mechanical, 17=Mechanical.
 (lb) - Max Horz 17=-559(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 13=-756(LC 13), 10=-149(LC 13), 17=-473(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 13=2028(LC 21), 10=1292(LC 2), 17=1825(LC 2), 14=1064(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-473/435, 3-4=-2070/1255, 4-6=-1937/1306, 6-7=-1396/697, 7-9=-1502/605, 9-10=-1635/608, 1-17=-306/273
 BOT CHORD 16-17=-531/1454, 14-16=-538/1455, 13-14=-538/1455, 11-13=-528/1439, 10-11=-528/1439
 WEBS 16-19=0/934, 3-19=0/949, 21-22=-1483/1696, 22-23=-755/175, 13-23=-630/568, 7-23=-951/714, 9-11=-589/502, 3-21=-752/1054, 4-21=-789/867, 4-22=-919/850, 6-22=-695/1170, 6-23=-198/863, 2-17=-509/230, 3-17=-1773/678

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 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.
 - Ceiling dead load (5.0 psf) on member(s). 19-21, 21-22, 22-23; Wall dead load (5.0psf) on member(s).16-19, 13-23, 9-11
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16, 13-14, 11-13
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 756 lb uplift at joint 13, 149 lb uplift at joint 10 and 473 lb uplift at joint 17.
 - 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.
 - Attic room checked for L/360 deflection.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



August 19,2020

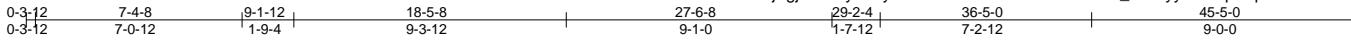
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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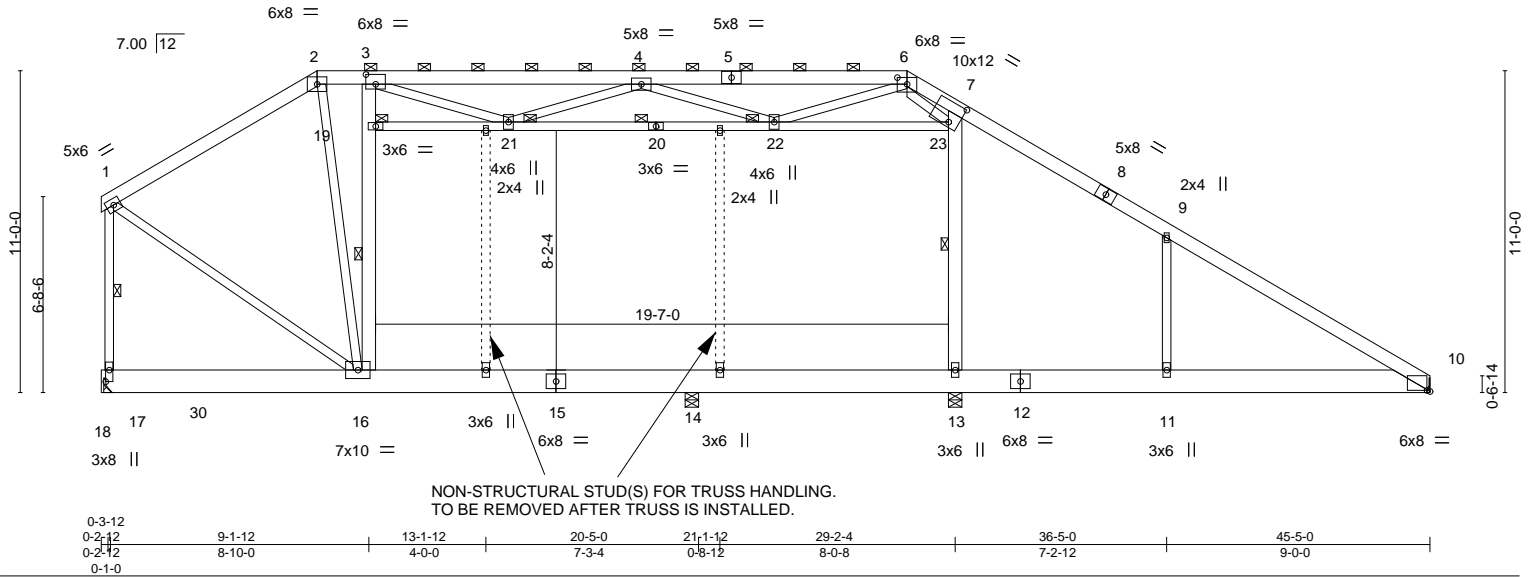
Job 2434707_MASTER	Truss A16	Truss Type ATTIC	Qty 21	Ply 1	H&H/Calabash/ Job Reference (optional)	142477959
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:15 2020 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-QNlfrbtwYb05_QrOtyyrden8pkRpEvF076DFInyma_k



Scale = 1:78.8



NON-STRUCTURAL STUD(S) FOR TRUSS HANDLING.
TO BE REMOVED AFTER TRUSS IS INSTALLED.

Plate Offsets (X,Y)--	[3:0-4-0,0-4-0], [6:0-4-0,0-2-12], [7:0-3-3,0-0-0], [7:0-4-0,0-8-0], [10:0-1-4,0-0-7], [17:0-4-12,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.20 11-29	>980	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.39 11-29	>499	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.02 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.37 11-29	>531	240	Weight: 468 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 (4-8-8 max.): 2-6.
BOT CHORD 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 3-16,7-13: 2x6 SP No.2, 19-20,20-23: 2x4 SP No.2	WEBS 1 Row at midpt 16-19, 21-22, 13-23, 1-17 1 Brace at Jt(s): 19, 21, 22
	JOINTS

REACTIONS. All bearings 0-5-8 except (jt=length) 10=Mechanical, 17=Mechanical.
(lb) - Max Horz 17=-559(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 13=-755(LC 13), 10=-151(LC 13), 17=-474(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 13=2034(LC 21), 10=1236(LC 2), 17=1772(LC 2), 14=1100(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1393/584, 2-3=-1197/647, 3-4=-1986/1249, 4-6=-1920/1298, 6-7=-1302/680,
7-9=-1408/611, 9-10=-1544/617, 1-17=-1636/705
BOT CHORD 16-17=-342/551, 14-16=-546/1379, 13-14=-546/1379, 11-13=-535/1363, 10-11=-535/1363
WEBS 16-19=-929/813, 3-19=-834/817, 21-22=-1464/1665, 22-23=-684/152, 13-23=-607/544,
7-23=-900/663, 9-11=-585/494, 3-21=-752/1052, 4-21=-788/868, 4-22=-901/841,
6-22=-686/1152, 6-23=-160/772, 2-16=-395/611, 1-16=-425/1380

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 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.
 - Ceiling dead load (5.0 psf) on member(s). 19-21, 21-22, 22-23; Wall dead load (5.0psf) on member(s).16-19, 13-23, 9-11
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16, 13-14, 11-13
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 755 lb uplift at joint 13, 151 lb uplift at joint 10 and 474 lb uplift at joint 17.
 - 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.
 - Attic room checked for L/360 deflection.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



August 19,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A17	ATTIC	9	1		I42477960
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:17 2020 Page 2
 ID:Tgj18SwfyF8hyT9h0Yt9kzZiYQ-MIPPFHuB4CGpEk?n_N_Jj3sYhY5ZioKJTPiMqgya_i

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A18	ATTIC	9	1		I42477961
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:18 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-qyzoTdvprW0gruazY4VYFGPjVxRoRFaSi3RvM6yma_h

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

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/
2434707_MASTER	A19	ATTIC	18	1	I42477962

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:20 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-nK5YUjx3M7eO5CkLgVY0KhU3xI6Nv9GI9Nw0Q?yma_f

NOTES- (14)

- 13) Attic room checked for L/360 deflection.
- 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.

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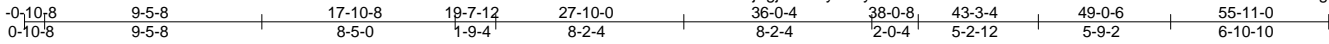
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477963
2434707_MASTER	A20	ATTIC	27	1		

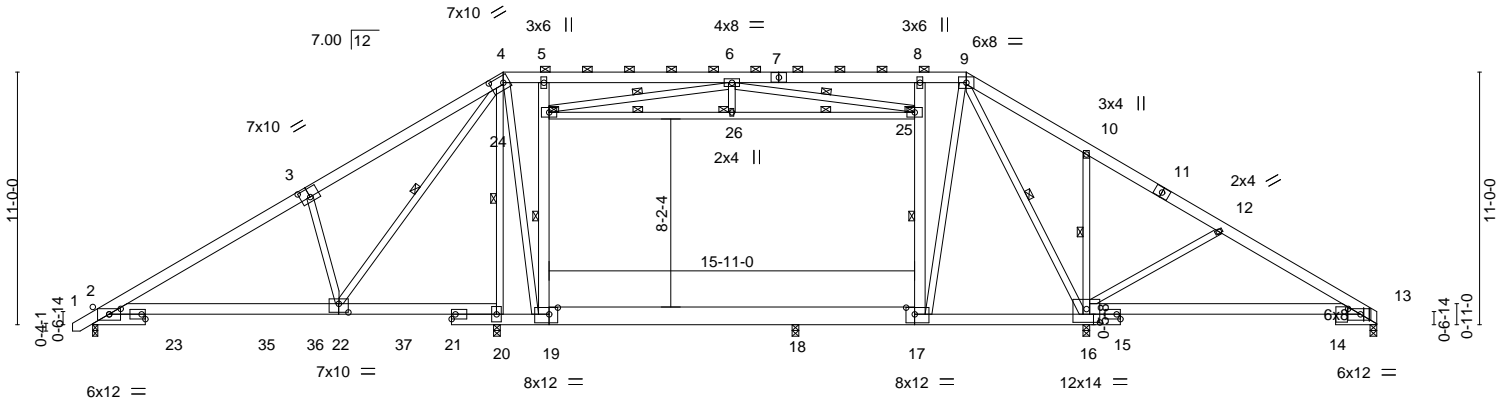
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:21 2020 Page 1

ID: jTgj18SwfyF8hyT9h0Y19kzZiYQ-FXfw5fXh7RmFIMJYDD3Ftv1EI9SXeduvO1gazRyma_e



Scale = 1:100.3



	10-8-12	17-5-8	19-7-12	30-7-4	36-0-4	43-3-4	44-9-0	54-1-8	55-11-0
Plate Offsets (X,Y)--	[2:0-6-0,0-2-14]	[2:0-3-14,0-8-9]	[3:0-5-0,0-4-8]	[4:0-6-12,0-3-8]	[13:0-6-8,0-2-14]	[16:0-7-0,0-7-0]	[17:0-4-8,0-3-8]	[19:0-4-8,0-3-8]	[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 0.43	Vert(LL)	-0.10	2-22	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.24	2-22	>864		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.02	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.18	2-22	>999		
								Weight: 520 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except*	2-0-0 oc purlins (6-0-0 max.): 4-9.
10-16: 2x4 SP No.2, 17-19: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied. Except:
WEBS 2x4 SP No.3 *Except*	6-0-0 oc bracing: 10-16
5-19,8-17: 2x6 SP No.2, 24-25: 2x4 SP No.2	WEBS 1 Row at midpt 19-24, 24-26, 25-26, 17-25, 6-24, 6-25, 9-16, 4-22, 4-20
	JOINTS 1 Brace at Jt(s): 24, 25, 26

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-2-11.
 (lb) - Max Horz 2=479(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=323(LC 12), 16=752(LC 13), 13=142(LC 13), 20=531(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 13 except 2=775(LC 24), 16=1992(LC 1), 20=1862(LC 2), 18=1289(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-930/525, 3-4=-937/749, 4-5=-269/481, 5-6=-224/444, 6-8=-265/452, 8-9=-277/480, 9-10=0/716, 10-12=-215/722, 12-13=-66/436
 BOT CHORD 2-22=-511/777, 20-22=-410/402, 19-20=-380/400, 18-19=-356/399, 17-18=-355/400, 16-17=-408/415, 13-16=-359/154, 10-16=-528/473
 WEBS 3-22=-839/692, 19-24=-887/700, 5-24=-501/529, 24-26=-924/1294, 25-26=-924/1294, 17-25=-872/652, 8-25=-493/484, 9-17=-449/803, 6-24=-1361/980, 6-25=-1321/951, 9-16=-1272/488, 12-16=-629/486, 4-22=-710/1243, 4-20=-1519/564, 4-19=-425/933

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 24-26, 25-26; Wall dead load (5.0psf) on member(s). 19-24, 17-25
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-19, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 2, 752 lb uplift at joint 16, 142 lb uplift at joint 13 and 531 lb uplift at joint 20.
 - 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.



August 19, 2020

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TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A20	ATTIC	27	1		I42477963
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:21 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-FXfw5fxh7RmFiMJYDD3Ftv1EI9SXeduvO1gazRyma_e

NOTES- (14)

- 13) Attic room checked for L/360 deflection.
- 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.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477964
2434707_MASTER	A21	ATTIC	9	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:23 2020 Page 1

ID:JtGj18SwfyF8hyT9h0Y19kzZiYQ-BvmhWKzyf20zyfSwLd5jyK6Z8y9W6WHBrl9g1Kyma_c

0-10-8	9-5-8	17-10-8	19-7-12	27-10-0	36-0-4	38-0-8	43-3-4	49-0-6	55-11-0
0-10-8	9-5-8	8-5-0	1-9-4	8-2-4	8-2-4	2-0-4	5-2-12	5-9-2	6-10-10

Scale = 1:100.4

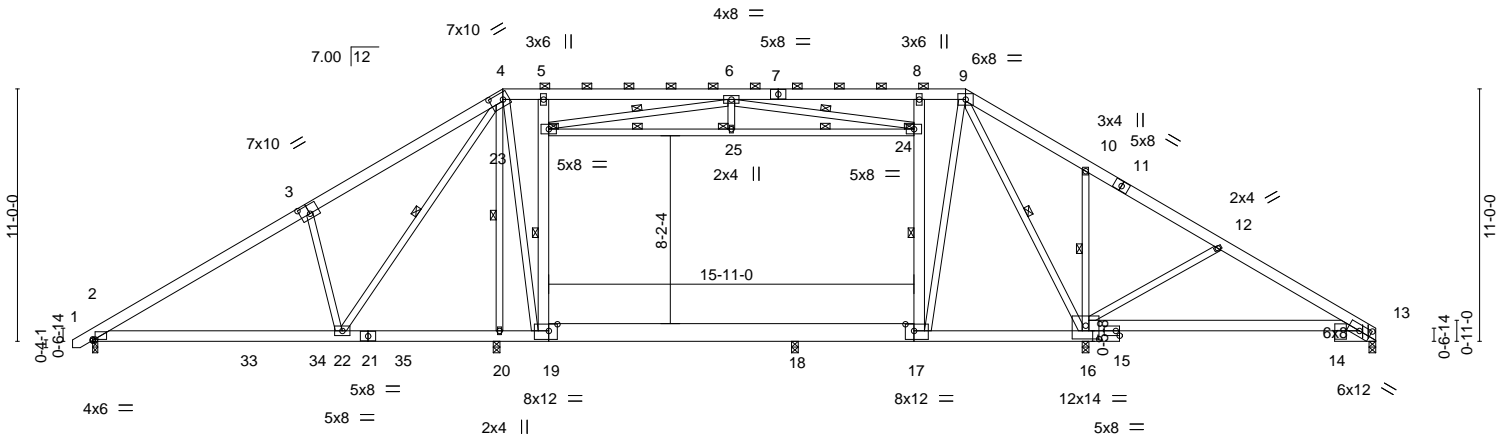


Plate Offsets (X,Y)--	[2:0-1-5,0-0-8], [2:0-0-10,0-0-0], [3:0-5-0,0-4-8], [4:0-6-12,0-3-8], [13:0-6-0,0-3-2], [16:0-7-0,0-7-0], [17:0-4-8,0-3-8], [19:0-4-8,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.09	16-31	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.20	22-28	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.02	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.15	22-28	>999		
								Weight: 513 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except* 10-16: 2x4 SP No.2, 17-19: 2x10 SP DSS	2-0-0 oc purlins (6-0-0 max.): 4-9.
WEBS 2x4 SP No.3 *Except* 5-19,8-17: 2x6 SP No.2, 23-24: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 10-16
	WEBS 1 Row at midpt 19-23, 23-25, 24-25, 17-24, 6-23, 6-24, 9-16, 4-22, 4-20
	JOINTS 1 Brace at Jt(s): 23, 24, 25

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-2-11.
 (lb) - Max Horz 2=477(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-353(LC 12), 16=-743(LC 13), 13=-152(LC 13), 20=-506(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 2=848(LC 24), 16=1917(LC 1), 13=288(LC 21), 20=1804(LC 2), 18=1281(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1016/576, 3-4=-1079/808, 4-5=-410/500, 5-6=-373/458, 6-8=-389/477, 8-9=-414/504, 9-10=0/538, 10-12=-133/541, 12-13=-45/277
 BOT CHORD 2-22=-516/898, 20-22=-331/381, 19-20=-328/380, 18-19=-326/476, 17-18=-324/482, 16-17=-304/402, 10-16=-525/473
 WEBS 3-22=-848/712, 19-23=-876/701, 5-23=-491/529, 23-25=-923/1294, 24-25=-923/1294, 17-24=-880/653, 8-24=-498/485, 9-17=-452/820, 6-23=-1353/976, 6-24=-1330/956, 9-16=-1186/448, 12-16=-636/486, 4-22=-728/1248, 4-20=-1515/539, 4-19=-431/980

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 23-25, 24-25; Wall dead load (5.0psf) on member(s). 19-23, 17-24
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-19, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 353 lb uplift at joint 2, 743 lb uplift at joint 16, 152 lb uplift at joint 13 and 506 lb uplift at joint 20.
 - 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.



August 19, 2020

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TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A21	ATTIC	9	1		I42477964
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:23 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Y19kzZiYQ-BvmhWKzyf20zyfSwLd5jyK6Z8y9W6WHBRL9g1Kyma_c

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

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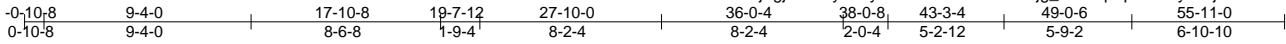
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477965
2434707_MASTER	A22	ATTIC	9	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:24 2020 Page 1

ID: jTgj18SwfyF8hyT9h0Y19kzZiYQ-f5K3jg_aQM8pZp17vLcyVXfj2MUhrzzL4?uEZmyma_b



Scale = 1:103.8

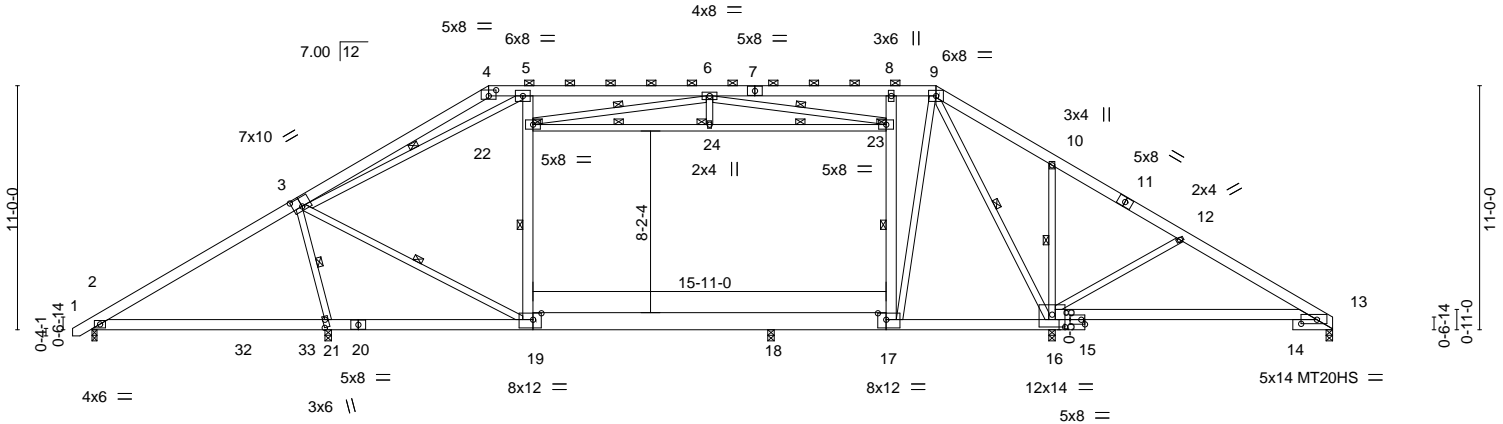


Plate Offsets (X,Y)--	[3:0-5-0,0-4-12], [4:0-4-0,0-3-3], [13:0-8-8,0-2-3], [16:0-7-0,0-6-12], [17:0-4-8,0-3-8], [19:0-4-8,0-3-8], [21:0-4-3,0-1-4]
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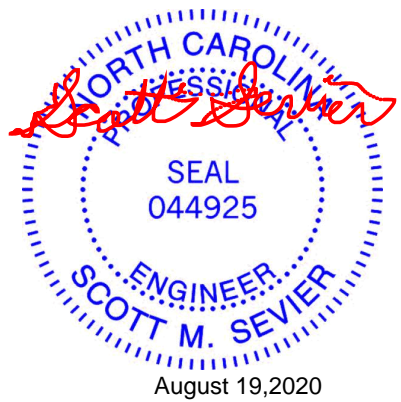
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.10	16-30	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.23	16-30	>641	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.03	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.10	21-27	>999		
								Weight: 498 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except* 10-16: 2x4 SP No.2, 17-19: 2x10 SP DSS	2-0-0 oc purlins (6-0-0 max.): 4-9.
WEBS 2x4 SP No.3 *Except* 5-19,8-17: 2x6 SP No.2, 22-23: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 10-16 1 Row at midpt 3-21, 19-22, 22-24, 23-24, 17-23, 6-22, 6-23, 9-16, 3-19, 3-5
	JOINTS 1 Brace at Jt(s): 22, 23, 24

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-2-11.
 (lb) - Max Horz 2=477(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=189(LC 13), 16=725(LC 13),
 13=171(LC 13), 21=692(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 2=297(LC 24), 16=1669(LC
 25), 13=591(LC 2), 21=2263(LC 2), 18=1275(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-150/598, 3-4=-731/472, 4-5=-638/534, 5-6=-894/660, 6-8=-794/638, 8-9=-878/686,
 9-10=-501/437, 10-12=-529/297, 12-13=-783/364
 BOT CHORD 2-21=-420/190, 19-21=-738/295, 18-19=-445/922, 17-18=-445/928, 16-17=-357/785,
 13-16=-177/693, 10-16=-515/472
 WEBS 3-21=-1975/955, 19-22=-555/465, 5-22=-179/295, 22-24=-919/1303, 23-24=-919/1303,
 17-23=-921/664, 8-23=-529/493, 9-17=-469/880, 6-22=-1326/980, 6-23=-1395/972,
 9-16=-900/407, 12-16=-659/488, 3-19=-412/1734, 3-5=-724/705

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - Ceiling dead load (5.0 psf) on member(s). 22-24, 23-24; Wall dead load (5.0psf) on member(s).19-22, 17-23
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-19, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 2, 725 lb uplift at joint 16, 171 lb uplift at joint 13 and 692 lb uplift at joint 21.
 - 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.
- On the truss representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	I42477965
2434707_MASTER	A22	ATTIC	9	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:24 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-f5K3jg_aQM8pZp17vLcyVXfj2MUhrzzL4?uEZmyma_b

NOTES- (14)

- 13) Attic room checked for L/360 deflection.
- 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. 5/19/2020 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477966
2434707_MASTER	A23	ATTIC	9	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 Mitek Industries, Inc. Tue Aug 18 15:32:26 2020 Page 1

ID: jTgji18SwfyF8hyT9h0Y19kzZiYQ-bUSp8M?qyzPXp7BV0mfQayk3tA2Sjt?eXJNLefyma_Z



Scale = 1:98.9

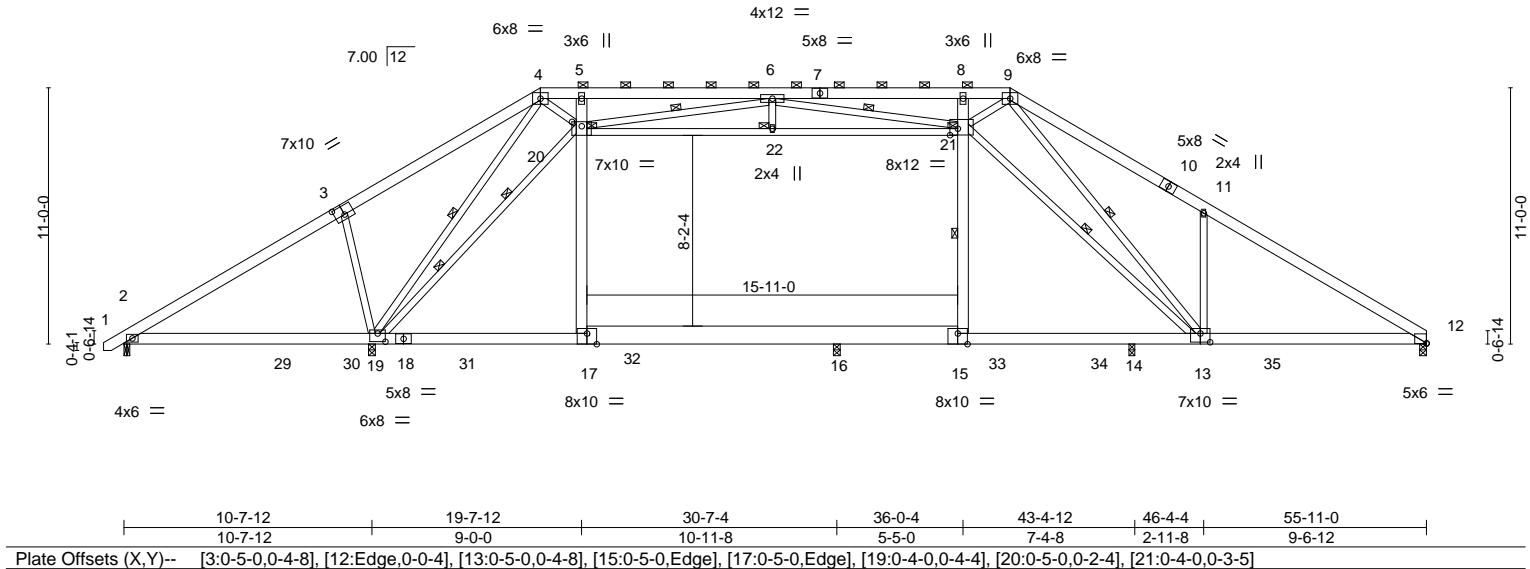


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [12:Edge,0-0-4], [13:0-5-0,0-4-8], [15:0-5-0,Edge], [17:0-5-0,Edge], [19:0-4-0,0-4-4], [20:0-5-0,0-2-4], [21:0-4-0,0-3-5]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.13	13-28	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.29	13-28	>532		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.04	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.23	13-28	>672		
								Weight: 497 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except* 15-17: 2x10 SP DSS	2-0-0 oc purlins (5-8-0 max.): 4-9.
WEBS 2x4 SP No.3 *Except* 5-17,8-15: 2x6 SP No.2, 20-21,4-19,19-20,9-13,13-21: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 15-21, 6-20, 6-21, 4-19, 9-13, 13-21 2 Rows at 1/3 pts 19-20
	JOINTS 1 Brace at Jt(s): 20, 21, 22

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-3-0, 14=0-3-0.
 (lb) - Max Horz 2=477(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 16 except 2=-274(LC 13), 19=-719(LC 12), 12=-513(LC 13), 14=-185(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 2=505(LC 1), 19=2315(LC 26), 12=1282(LC 21), 16=1390(LC 18), 14=665(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-491/455, 3-4=-508/607, 4-5=-514/129, 5-6=-499/102, 6-8=-1504/917,
 8-9=-1513/918, 9-11=-2212/1349, 11-12=-1889/941
 BOT CHORD 2-19=-83/258, 17-19=-378/1303, 16-17=-375/1336, 15-16=-375/1347, 14-15=-374/1328,
 13-14=-374/1328, 12-13=-616/1580
 WEBS 3-19=-855/720, 17-20=0/763, 5-20=-512/525, 20-22=-722/979, 21-22=-722/979,
 15-21=-423/472, 8-21=-449/503, 11-13=-937/793, 6-20=-2007/1459, 6-21=-1055/994,
 4-19=-687/204, 19-20=-1577/735, 9-13=-575/864, 13-21=-499/579, 4-20=-198/458,
 9-21=-160/337

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 20-22, 21-22; Wall dead load (5.0psf) on member(s). 17-20, 15-21
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17, 15-16
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 2=274, 19=719, 12=513, 14=185.
 - 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.
 - Attic room checked for L/360 deflection.



August 19, 2020

Continued on page 2

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ENGINEERING BY
TRENCO
 A Mitek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A23	ATTIC	9	1		I42477966
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:26 2020 Page 2

ID:jTgj18SwfyF8hyT9h0Y19kzZiYQ-bUSp8M?qyzPXp7BV0mfQayk3tA2Sjt?eXJNLefyma_Z

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477967
2434707_MASTER	A24	PIGGYBACK BASE	4	1		

Builders FirstSource, Sumter, SC - 29153,

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ID: jTg18SwlyF8hyT9h0Yt9kzZiYQ-4g0BMi0SjHXOQHmiaTAF7AGBGaUh2LDnmz7uA5yma_Y

Job Reference (optional)



Scale = 1:80.2

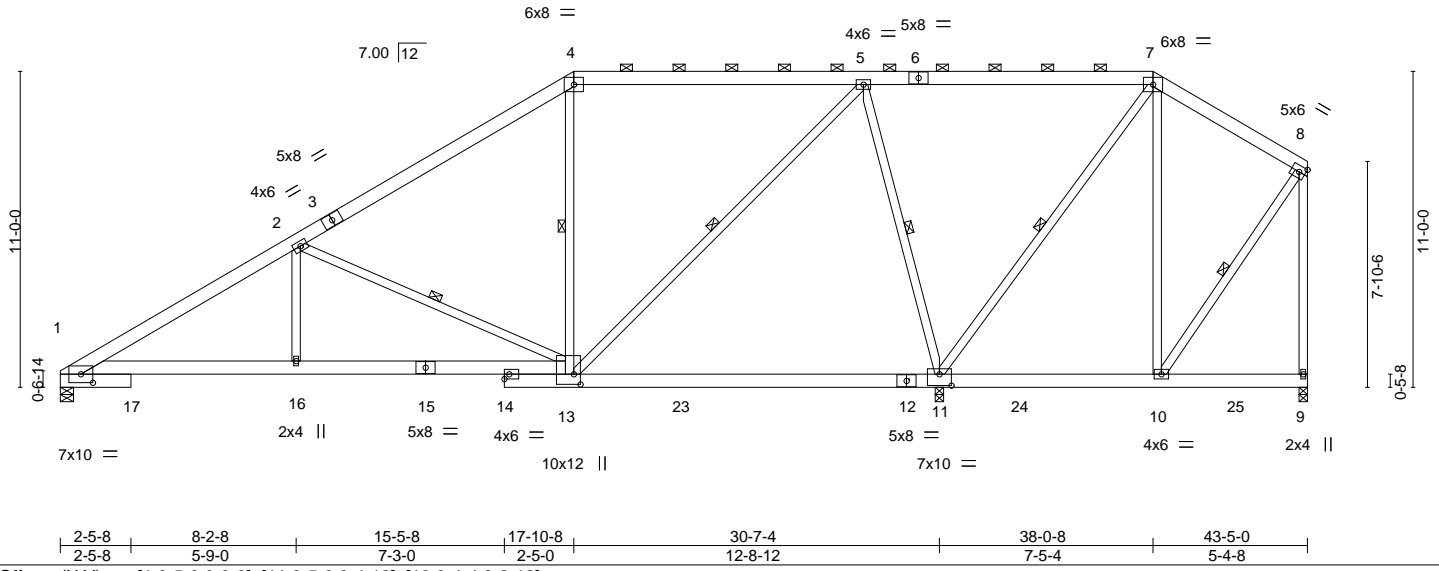


Plate Offsets (X,Y)--	[1:0-5-0,0-3-9], [11:0-5-0,0-4-12], [13:0-4-4,0-2-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.25 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.37 11-13	>986	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	-0.08 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.17 13-16	>999	240	Weight: 350 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.): 4-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-13,7-11: 2x4 SP No.2	WEBS 1 Row at midpt 4-13, 5-13, 5-11, 7-11, 2-13, 8-10

REACTIONS. (size) 1=0-5-8, 11=0-3-8, 9=0-3-8
 Max Horz 1=595(LC 12)
 Max Uplift 1=413(LC 12), 11=-1025(LC 9), 9=-219(LC 8)
 Max Grav 1=1011(LC 23), 11=2358(LC 2), 9=293(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1684/788, 2-4=-903/439, 4-5=-777/534, 5-7=-261/523, 8-9=-195/258
 BOT CHORD 1-16=-1053/1784, 13-16=-1056/1784, 11-13=-332/196
 WEBS 2-16=0/339, 4-13=-168/302, 5-13=-680/1325, 5-11=-1500/1162, 7-11=-933/611,
 7-10=-108/318, 2-13=-1316/874

- NOTES-** (9)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=413, 11=1025, 9=219.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



August 19,2020

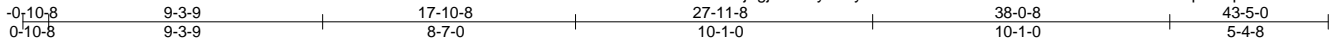
Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477968
2434707_MASTER	A25	PIGGYBACK BASE	1	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:28 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-YtaaZ214UafF2QLu8HufNpM4zpFno5w?dsRiXyma_X

Job Reference (optional)



Scale = 1:78.2

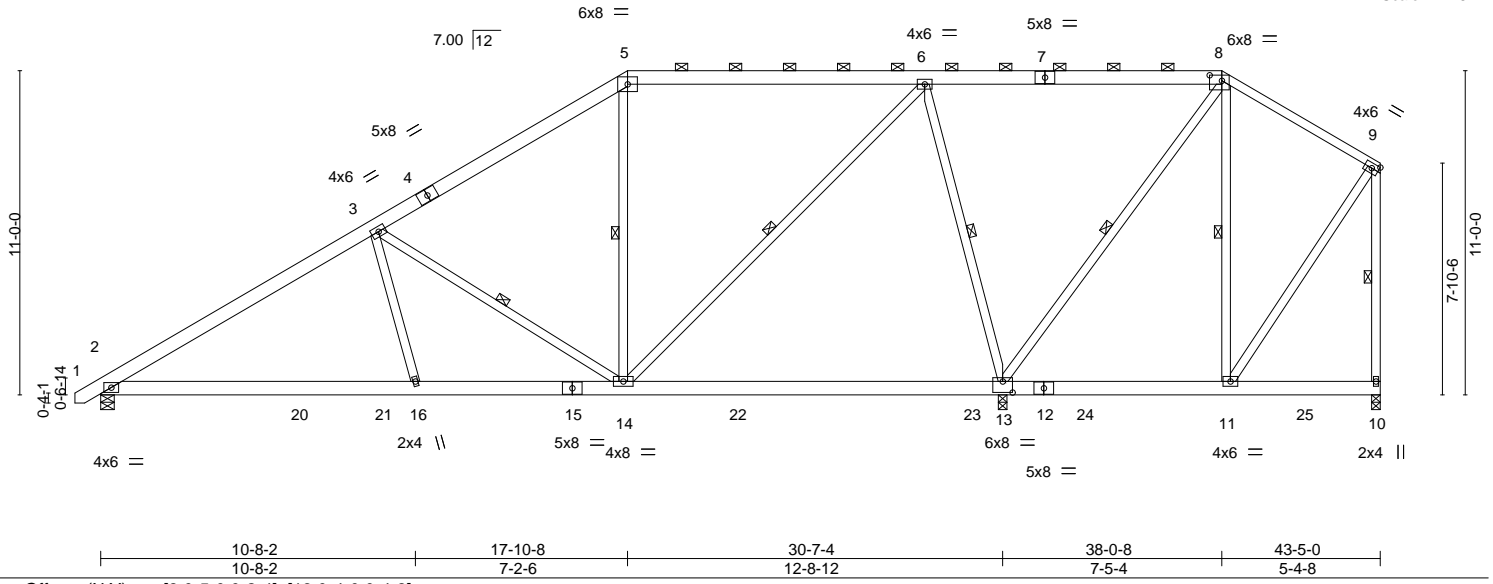


Plate Offsets (X,Y)--	[8:0-5-0,0-2-4], [13:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.26 13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.43 13-14	>859	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.03 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.14 16-19	>999	240	Weight: 340 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 8-9: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 6-14,8-13: 2x4 SP No.2	WEBS 1 Row at midpt 3-14, 5-14, 6-14, 6-13, 8-13, 8-11, 9-10

REACTIONS. (size) 2=0-5-8, 13=0-3-8, 10=0-3-8
 Max Horz 2=633(LC 12)
 Max Uplift 2=-504(LC 12), 13=-909(LC 9), 10=-161(LC 8)
 Max Grav 2=1196(LC 19), 13=2228(LC 2), 10=349(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1632/780, 3-5=-990/559, 5-6=-905/616, 6-8=-109/319, 9-10=-265/185
 BOT CHORD 2-16=-982/1653, 14-16=-966/1711
 WEBS 3-16=0/343, 3-14=-1154/710, 6-14=-579/1153, 6-13=-1432/1112, 8-13=-628/418

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=504, 13=909, 10=161.
 - 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.



August 19,2020

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

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477970
2434707_MASTER	A27	ATTIC	4	1		

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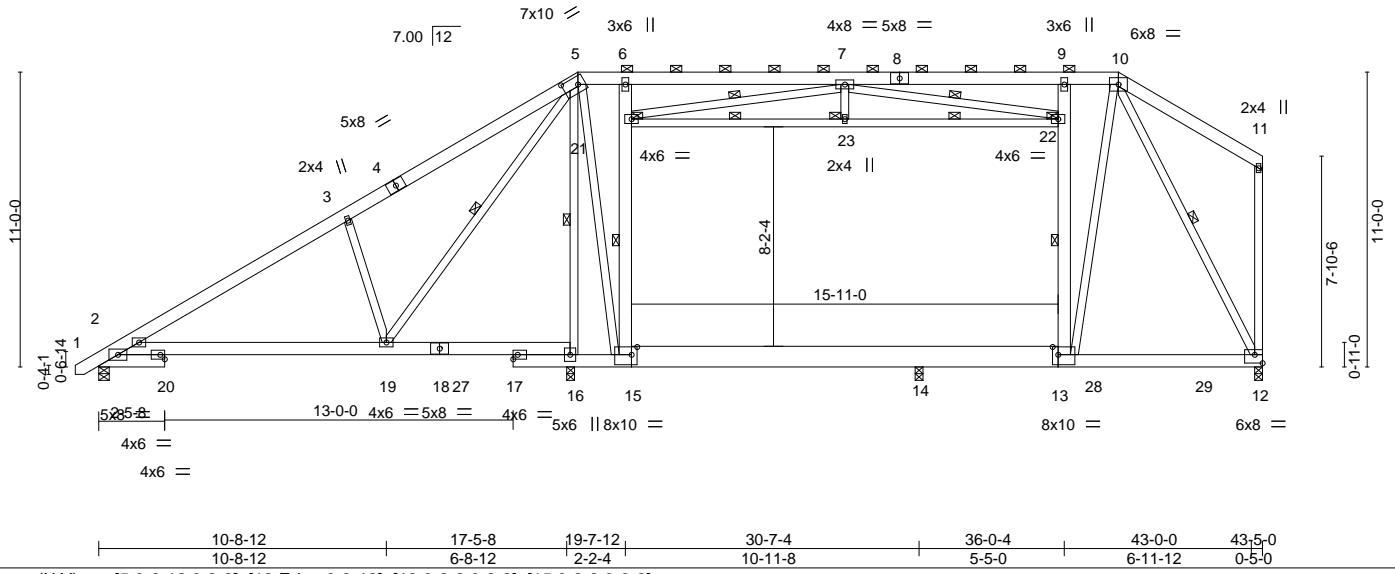


Plate Offsets (X,Y)--	[5:0-6-12,0-3-8], [12:Edge,0-3-12], [13:0-2-8,0-3-8], [15:0-2-8,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) 0.19 19-24 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.23 19-24 >897 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.04 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Attic -0.04 13-14 3113 360	Weight: 442 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.): 5-10.
BOT CHORD 2x6 SP No.2 *Except* 13-15: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 6-15,9-13: 2x6 SP No.2, 21-22,11-12: 2x4 SP No.2	WEBS 1 Row at midpt 15-21, 21-23, 22-23, 13-22, 7-21, 7-22, 10-12, 5-19, 5-16
	JOINTS 1 Brace at Jt(s): 21, 22, 23

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-4-11.
 (lb) - Max Horz 2=628(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-320(LC 12), 12=-424(LC 8), 16=-536(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 2=1004(LC 1), 12=1172(LC 27), 16=1584(LC 26),
 14=1261(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1404/583, 3-5=-1395/790, 5-6=-633/453, 6-7=-568/400, 7-9=-638/446,
 9-10=-640/460
 BOT CHORD 2-19=-797/1359, 16-19=-216/463, 15-16=-221/473, 14-15=-250/634, 13-14=-250/640,
 12-13=-191/466
 WEBS 3-19=-844/702, 15-21=-899/703, 6-21=-509/532, 21-23=-923/1291, 22-23=-923/1291,
 13-22=-847/658, 9-22=-470/490, 10-13=-433/852, 7-21=-1384/988, 7-22=-1311/941,
 10-12=-1018/417, 5-19=-738/1305, 5-16=-1246/522, 5-15=-394/937

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 21-23, 22-23; Wall dead load (5.0psf) on member(s).15-21, 13-22
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15, 13-14
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 320 lb uplift at joint 2, 424 lb uplift at joint 12 and 536 lb uplift at joint 16.
 - 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.
 - Attic room checked for L/360 deflection.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



August 19,2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477971
2434707_MASTER	A28	ATTIC	1	1		

Builders FirstSource, Sumter, SC - 29153,

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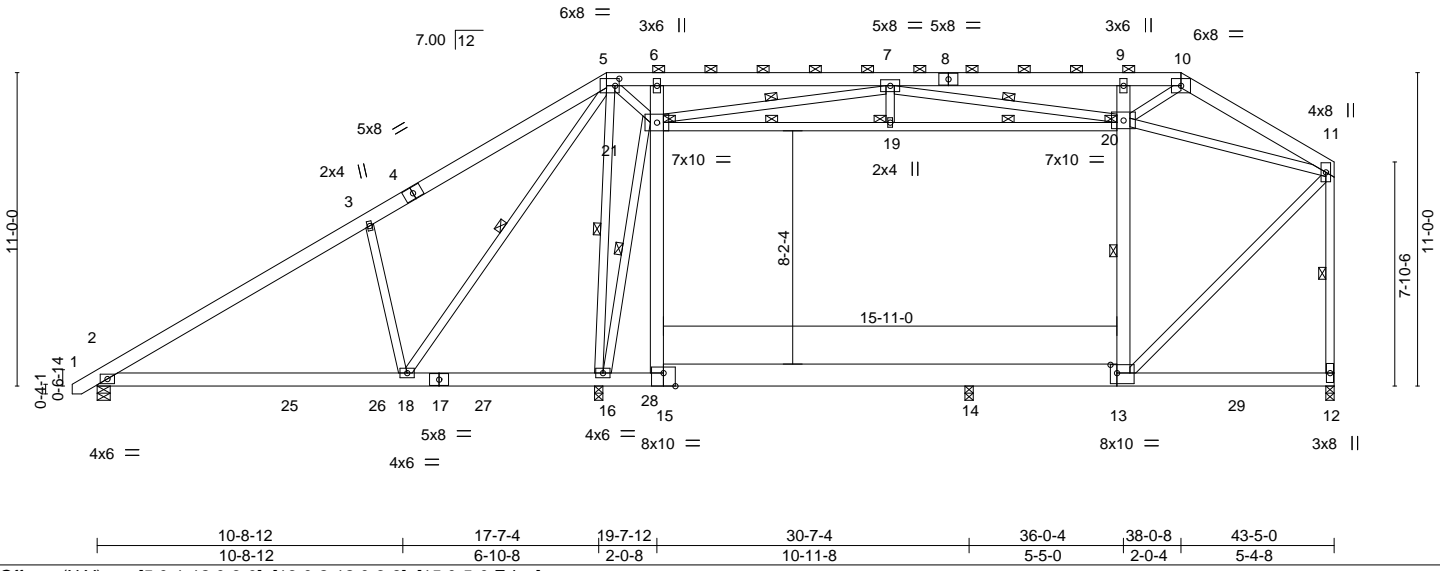


Plate Offsets (X,Y)--	[5:0-1-12,0-3-0], [13:0-2-12,0-3-8], [15:0-5-0,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.08 18-24 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.19 18-24 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.02 14 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.14 18-24 >999 240	Weight: 433 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.): 5-10.
BOT CHORD 2x6 SP No.2 *Except* 13-15: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-18,20-21: 2x4 SP No.2, 6-15,9-13: 2x6 SP No.2	WEBS 1 Row at midpt 5-18, 19-21, 19-20, 13-20, 7-21, 7-20, 11-12, 5-16, 16-21
REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-5-8. (lb) - Max Horz 2=629(LC 12) Max Uplift All uplift 100 lb or less at joint(s) except 2=-298(LC 12), 12=-431(LC 8), 16=-578(LC 12) Max Grav All reactions 250 lb or less at joint(s) except 2=983(LC 1), 12=1165(LC 27), 16=1721(LC 26), 14=1216(LC 18)	JOINTS 1 Brace at Jt(s): 19, 20, 21

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1279/498, 3-5=-1301/751, 5-6=-249/273, 6-7=-242/277, 7-9=-474/234, 9-10=-462/218, 10-11=-471/190, 11-12=-1076/569
BOT CHORD 2-18=-715/1216, 16-18=-197/434, 15-16=-297/644, 14-15=-293/659, 13-14=-294/662
WEBS 3-18=-857/722, 5-18=-757/1294, 15-21=0/647, 6-21=-507/515, 19-21=-780/1048, 19-20=-780/1047, 13-20=-658/546, 9-20=-508/504, 7-21=-1597/1135, 7-20=-1269/996, 11-20=-450/382, 10-20=-186/274, 11-13=-428/941, 5-16=-690/364, 5-21=-604/509, 16-21=-1367/637

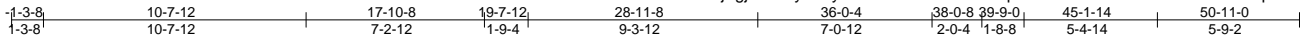
- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members 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.
 - Ceiling dead load (5.0 psf) on member(s). 19-21, 19-20; Wall dead load (5.0psf) on member(s).15-21, 13-20
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15, 13-14
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 2, 431 lb uplift at joint 12 and 578 lb uplift at joint 16.
 - 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.
 - Attic room checked for L/360 deflection.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477972
2434707_MASTER	A30	ATTIC GIRDER	8	1		

Builders FirstSource, Sumter, SC - 29153,

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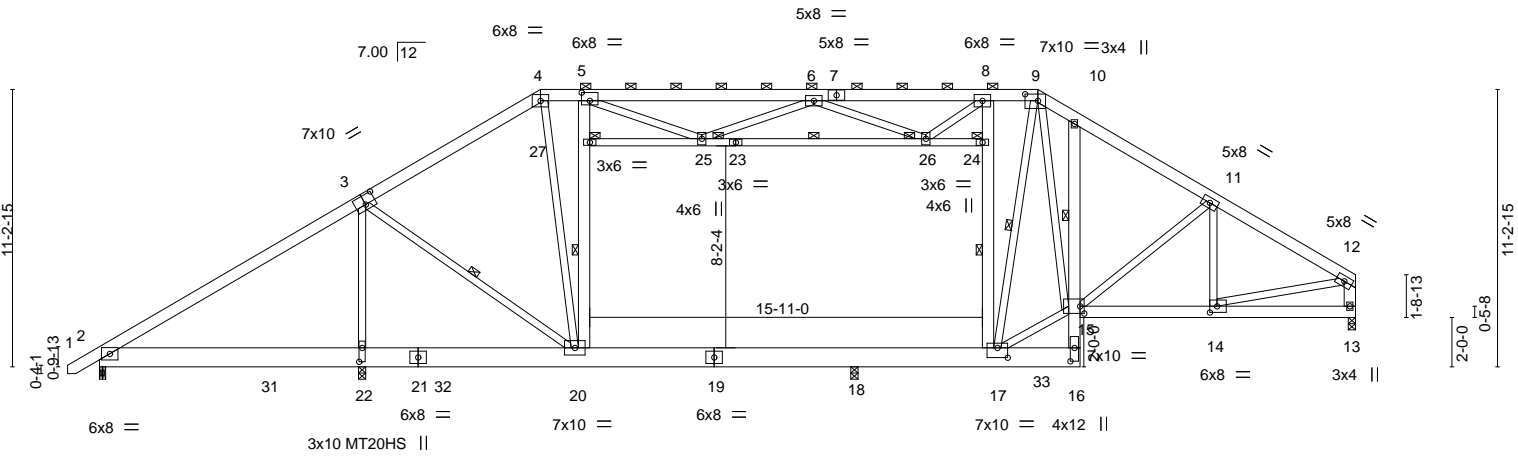


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [5:0-4-0,0-4-0], [9:0-6-4,0-3-4], [14:0-3-8,0-3-0], [15:0-2-0,0-3-8], [16:0-6-8,0-2-0], [17:0-5-0,0-4-12], [22:0-6-12,0-1-8]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.10 16-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.29 16-17 >818 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.92	Horz(CT) 0.05 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.14 16-17 >999 240	Weight: 532 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-3 max.): 4-9.
BOT CHORD 2x10 SP DSS *Except* 13-15,10-16: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 1 Row at midpt 10-15
WEBS 2x4 SP No.3 *Except* 5-20,8-17,12-13: 2x6 SP No.2, 23-24,23-27: 2x4 SP No.2	WEBS 1 Row at midpt 3-20, 20-27, 25-26, 17-24, 9-17
	JOINTS 1 Brace at Jt(s): 24, 25, 26, 27

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-3-0.
 (lb) - Max Horz 2=473(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 13 except 22=-1175(LC 5)
 Max Grav All reactions 250 lb or less at joint(s) except 2=1122(LC 1), 22=1786(LC 22), 13=1870(LC 1), 18=1715(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1502/0, 3-4=-1770/31, 4-5=-1535/70, 5-6=-2170/435, 6-8=-2061/291,
 8-9=-1568/63, 9-10=-2255/130, 10-11=-2422/0, 11-12=-2421/51, 12-13=-1802/123
 BOT CHORD 2-22=0/1173, 20-22=0/1175, 18-20=0/1584, 17-18=0/1584, 16-17=0/283, 14-15=0/2022,
 15-16=0/776, 10-15=-152/323
 WEBS 3-22=-1292/1131, 3-20=-692/762, 4-20=-225/958, 20-27=-1019/698, 5-27=-924/703,
 25-26=-873/1121, 17-24=-694/637, 8-24=-622/628, 5-25=-427/815, 6-25=-582/539,
 6-26=-709/726, 8-26=-383/586, 11-14=-345/52, 12-14=0/1918, 11-15=-202/415,
 9-15=-208/1717, 9-17=-773/111, 15-17=0/1624

- NOTES-** (15)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 25-27, 25-26, 24-26; Wall dead load (5.0psf) on member(s).20-27, 17-24
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-20, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 22=1175.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 35-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A30	ATTIC GIRDER	8	1		I42477972
					Job Reference (optional)	

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NOTES- (15)

- 13) Attic room checked for L/360 deflection.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 15) 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, 4-9=-60, 9-12=-60, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-9=-50, 9-12=-50, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-9=-20, 9-12=-20, 20-28=-40, 17-20=-30, 16-17=-40, 24-27=-10, 13-15=-40
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-4=-17, 4-9=57, 9-12=27, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-18, 2-4=5, 9-12=39
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=27, 4-9=57, 9-12=-17, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-29, 2-4=-39, 9-12=-5
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-4=-45, 4-9=29, 9-12=-1, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=15, 2-4=25, 9-12=19
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-4=-1, 4-9=29, 9-12=-45, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=-29, 2-4=-19, 9-12=-25
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=47, 2-4=57, 4-9=27, 9-12=27, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-59, 2-4=-69, 9-12=39
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=27, 4-9=27, 9-12=57, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-29, 2-4=-39, 9-12=69
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=47, 2-4=57, 4-9=27, 9-12=27, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-59, 2-4=-69, 9-12=39
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A30	ATTIC GIRDER	8	1		I42477972
					Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=17, 2-4=27, 4-9=27, 9-12=57, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-29, 2-4=-39, 9-12=69
Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

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

Uniform Loads (plf)

Vert: 1-2=39, 2-4=29, 4-9=-1, 9-12=-1, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=-59, 2-4=-49, 9-12=19
Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

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

Uniform Loads (plf)

Vert: 1-2=9, 2-4=-1, 4-9=-1, 9-12=29, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=-29, 2-4=-19, 9-12=49
Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

- 14) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-4=-20, 4-9=-20, 9-12=-20, 28-31=-20, 31-32=-60, 20-32=-20, 17-20=-110, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

- 15) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-4=-20, 4-9=-20, 9-12=-20, 28-31=-20, 31-32=-60, 20-32=-20, 17-20=-110, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-61, 2-4=-69, 4-9=-13, 9-12=-35, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=11, 2-4=19, 9-12=15
Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-28, 2-4=-35, 4-9=-13, 9-12=-69, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=22, 2-4=-15, 9-12=-19
Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-5, 2-4=-13, 4-9=-35, 9-12=-35, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=-45, 2-4=-37, 9-12=15
Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-28, 2-4=-35, 4-9=-35, 9-12=-13, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=-22, 2-4=-15, 9-12=37
Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

- 20) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-9=-60, 9-12=-20, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

- 21) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-9=-60, 9-12=-60, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

Continued on page 4

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A30	ATTIC GIRDER	8	1		I42477972
					Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:34 2020 Page 4
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-M1xrq55r3QPPmLo2URolve3P2OurAVfpNZJmwByma_R

LOAD CASE(S) Standard

- 22) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-9=-50, 9-12=-20, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 23) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-20, 4-9=-50, 9-12=-50, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 24) Reversal: Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-9=-60, 9-12=-60, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 25) Reversal: Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-9=-50, 9-12=-50, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 26) Reversal: Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-4=-20, 4-9=-20, 9-12=-20, 28-31=-20, 31-32=-60, 20-32=-20, 17-20=-110, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 27) Reversal: Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-4=-20, 4-9=-20, 9-12=-20, 28-31=-20, 31-32=-60, 20-32=-20, 17-20=-110, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 28) Reversal: 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-9=-60, 9-12=-20, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 29) Reversal: 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-20, 4-9=-60, 9-12=-60, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 30) Reversal: 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-9=-50, 9-12=-20, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 31) Reversal: 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-20, 4-9=-50, 9-12=-50, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-4=-17, 4-9=57, 9-12=27, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-18, 2-4=5, 9-12=39
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=27, 4-9=57, 9-12=-17, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-29, 2-4=-39, 9-12=-5
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)

Continued on page 5

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A30	ATTIC GIRDER	8	1		I42477972
					Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:34 2020 Page 5
ID:Tgj18SwfyF8hyT9h0Yt9kzZiYQ-M1xrq55r3QPPmLo2URolve3P2OurAVfpNZJmwByma_R

LOAD CASE(S) Standard

- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-4=-45, 4-9=29, 9-12=-1, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=15, 2-4=25, 9-12=19
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-4=-1, 4-9=29, 9-12=-45, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=-29, 2-4=-19, 9-12=-25
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=47, 2-4=57, 4-9=27, 9-12=27, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-59, 2-4=-69, 9-12=39
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=27, 4-9=27, 9-12=57, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-29, 2-4=-39, 9-12=69
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=47, 2-4=57, 4-9=27, 9-12=27, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-59, 2-4=-69, 9-12=39
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=17, 2-4=27, 4-9=27, 9-12=57, 20-28=-12, 17-20=-18, 16-17=-12, 24-27=-6, 13-15=-12
Horz: 1-2=-29, 2-4=-39, 9-12=69
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=39, 2-4=29, 4-9=-1, 9-12=-1, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=-59, 2-4=-49, 9-12=19
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-4=-1, 4-9=-1, 9-12=29, 20-28=-20, 17-20=-30, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=-29, 2-4=-19, 9-12=49
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left):
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-61, 2-4=-69, 4-9=-13, 9-12=-35, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=90, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=11, 2-4=19, 9-12=15
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right):
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-4=-35, 4-9=-13, 9-12=69, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=90, 16-17=-20, 24-27=-10, 13-15=-20
Horz: 1-2=-22, 2-4=-15, 9-12=-19
Drag: 20-27=-10, 17-24=-10
Concentrated Loads (lb)
Vert: 33=-700(F)
- 44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 6

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A30	ATTIC GIRDER	8	1		I42477972
					Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:34 2020 Page 6
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-M1xrq55r3QPPmLo2URolve3P2OurAVfpNZJmwByma_R

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-5, 2-4=-13, 4-9=-35, 9-12=-35, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20

Horz: 1-2=-45, 2-4=-37, 9-12=15

Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-28, 2-4=-35, 4-9=-35, 9-12=-13, 28-31=-20, 31-32=-50, 20-32=-20, 17-20=-90, 16-17=-20, 24-27=-10, 13-15=-20

Horz: 1-2=-22, 2-4=-15, 9-12=37

Drag: 20-27=-10, 17-24=-10

Concentrated Loads (lb)

Vert: 33=-700(F)

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818 Soundside Road
Edenton, NC 27932

Job 2434707_MASTER	Truss A31	Truss Type ATTIC	Qty 8	Ply 1	H&H/Calabash/ Job Reference (optional)	142477973
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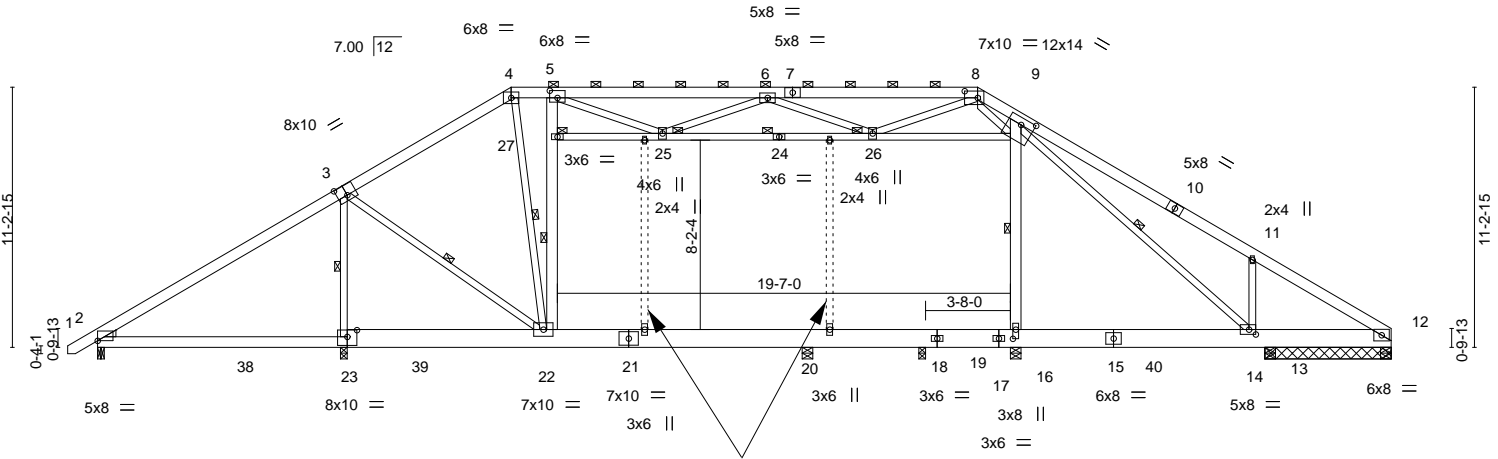
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:37 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-ncdzS78kMLnzdpXd9aL?XGht_cs1NsKF3XYQXWyma_O



Scale = 1:99.6



NON-STRUCTURAL STUD(S) FOR TRUSS HANDLING.
TO BE REMOVED AFTER TRUSS IS INSTALLED.

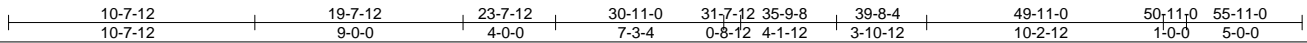


Plate Offsets (X, Y)--	[2:0-0-0,0-0-0], [3:0-5-0,0-5-4], [5:0-4-0,0-3-12], [8:0-6-12,0-3-8], [9:0-7-0,0-3-8], [14:0-3-8,0-2-8], [16:0-4-12,0-1-8], [23:0-5-0,0-3-8]
------------------------	--

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 0.79	Vert(LL)	-0.13 20-22	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.24 20-22	>998	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.19 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.16 22	>999	240	Weight: 545 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x10 SP DSS *Except* 2-23: 2x6 SP No.2	2-0-0 oc purlins (5-9-8 max.): 4-8.
WEBS 2x4 SP No.3 *Except* 5-22,9-16: 2x6 SP No.2, 9-24,24-27,9-14: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEDGE Left: 2x4 SP No.3	WEBS 1 Row at midpt 3-23, 22-27, 25-26, 9-16, 4-22, 3-22, 9-14
	JOINTS 1 Brace at Jt(s): 25, 26, 27

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8, 23=0-3-14 (input: 0-3-8), 12=Mechanical, 12=Mechanical, 19=0-3-8.
(lb) - Max Horz 23=484(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 12, 19 except 2=846(LC 23), 23=1132(LC 9), 16=294(LC 8), 13=748(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12, 12, 19 except 2=472(LC 9), 23=3273(LC 26), 16=1276(LC 2), 20=1368(LC 18), 13=996(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1027/2233, 3-4=-584/716, 4-5=-551/711, 5-6=-1234/1215, 6-8=-1311/1182, 8-9=-917/785, 9-11=-413/447
BOT CHORD 2-23=-1724/991, 22-23=-1576/529
WEBS 3-23=-2631/1104, 22-27=-1014/774, 5-27=-920/779, 25-26=-1489/1888, 9-26=-791/804, 9-16=-1123/555, 11-14=-791/712, 5-25=-762/1140, 6-25=-895/860, 6-26=-659/757, 8-26=-653/847, 4-22=-400/123, 3-22=-628/1945

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 25-27, 25-26, 9-26; Wall dead load (5.0psf) on member(s).22-27, 9-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 20-22, 19-20, 18-19, 16-17
 - WARNING: Required bearing size at joint(s) 23 greater than input bearing size.
 - 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) 12, 19 except (jt=lb) 2=846, 23=1132, 16=294, 13=748.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheathing be applied directly to the bottom chord.



August 19,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/
2434707_MASTER	A31	ATTIC	8	1	I42477973

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:37 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-ncdzS78kMLnzdpXd9aL?XGht_cs1NsKF3XYQXWyma_O

NOTES- (14)

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.
- 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. 5/19/2020 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job 2434707_MASTER	Truss A32	Truss Type ATTIC	Qty 8	Ply 1	H&H/Calabash/ Job Reference (optional)	142477974
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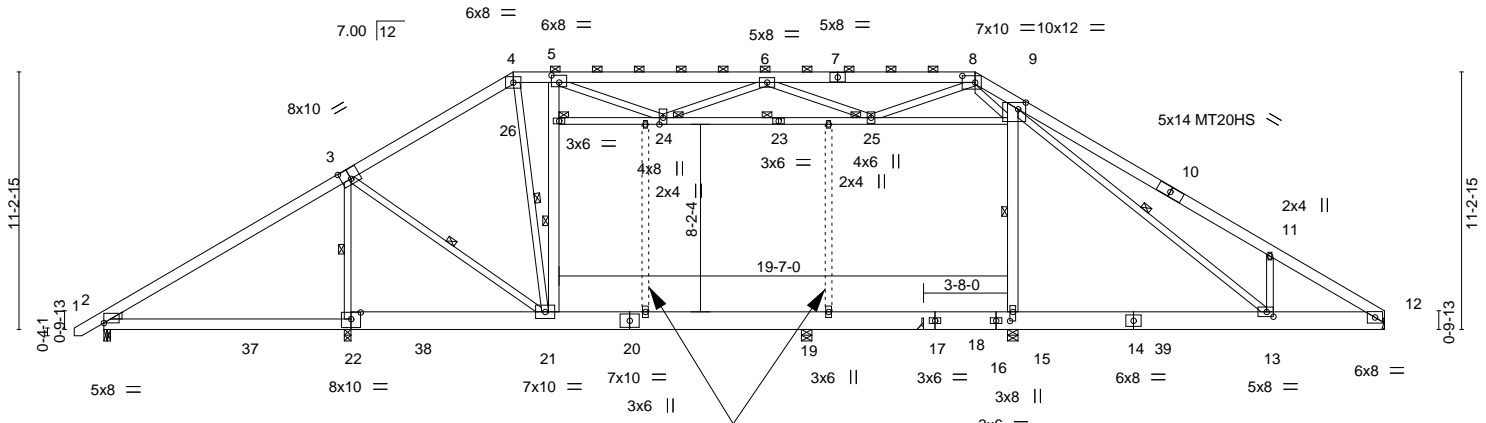
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:39 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-j_kktp9_uy1ht7h?H_OTchmCUPYVrmbYXr1XbOyma_M

1-3-8	10-7-12	17-10-8	19-7-12	28-11-8	38-0-8	39-8-4	50-11-0	55-11-0
1-3-8	10-7-12	7-2-12	1-9-4	9-3-12	9-1-0	1-7-12	11-2-12	5-0-0

Scale = 1:100.6



NON-STRUCTURAL STUD(S) FOR TRUSS HANDLING.
TO BE REMOVED AFTER TRUSS IS INSTALLED.

10-7-12	19-7-12	23-7-12	30-11-0	31-7-12	35-9-8	39-8-4	50-11-0	55-11-0
10-7-12	9-0-0	4-0-0	7-3-4	0-8-12	4-1-12	3-10-12	11-2-12	5-0-0

Plate Offsets (X,Y)--	[2:0-0-0,0-0-0]	[3:0-5-0,0-5-4]	[5:0-4-0,0-3-12]	[8:0-6-12,0-3-8]	[9:0-4-0,0-3-8]	[13:0-3-8,0-2-8]	[15:0-4-12,0-1-8]	[22:0-5-0,0-3-8]	[24:0-3-8,0-2-0]
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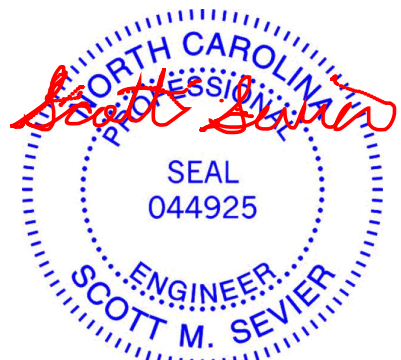
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.79	Vert(LL)	-0.13	19-21	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.24	19-21	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.18	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.16	21	>999		Weight: 545 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x10 SP DSS *Except*	2-0-0 oc purlins (5-9-15 max.): 4-8.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
WEDGE Left: 2x4 SP No.3	WEBS 1 Row at midpt 3-22, 21-26, 24-25, 9-15, 4-21, 3-21, 9-13
	JOINTS 1 Brace at Jt(s): 24, 25, 26

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8, 22=0-3-14 (input: 0-3-8), 12=Mechanical, 18=Mechanical.
 (lb) - Max Horz 22=484(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 18 except 2=-845(LC 23), 22=-1136(LC 9), 15=-437(LC 13), 12=-512(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 18 except 2=474(LC 9), 22=3268(LC 26), 15=1538(LC 2), 12=763(LC 21), 19=1367(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1030/2233, 3-4=-584/717, 4-5=-551/712, 5-6=-1209/1196, 6-8=-1292/1123, 8-9=-887/814, 9-11=-1615/1192, 11-12=-1233/741
 BOT CHORD 2-22=-1724/994, 21-22=-1573/532, 12-13=-582/1028
 WEBS 3-22=-2627/1108, 21-26=-1006/770, 5-26=-912/774, 24-25=-1501/1875, 9-25=-830/795, 9-15=-1366/789, 11-13=-835/764, 5-24=-769/1133, 6-24=-888/866, 6-25=-680/781, 8-25=-716/933, 4-21=-399/122, 3-21=-632/1944, 9-13=-756/1328

- NOTES-** (15)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 24-26, 24-25, 9-25; Wall dead load (5.0psf) on member(s). 21-26, 9-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 19-21, 18-19, 17-18, 15-16
 - WARNING: Required bearing size at joint(s) 22 greater than input bearing size.
 - 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) 18 except (jt=lb) 2=845, 22=1136, 15=437, 12=512.



August 19, 2020

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A32	ATTIC	8	1		I42477974
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:39 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-j_kktp9_uy1ht7h?H_OTchmCUPYVmbYXr1XbOyma_M

NOTES- (15)

- 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) Attic room checked for L/360 deflection.
- 15) 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. 5/19/2020 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477975
2434707_MASTER	A33	ATTIC	16	1		

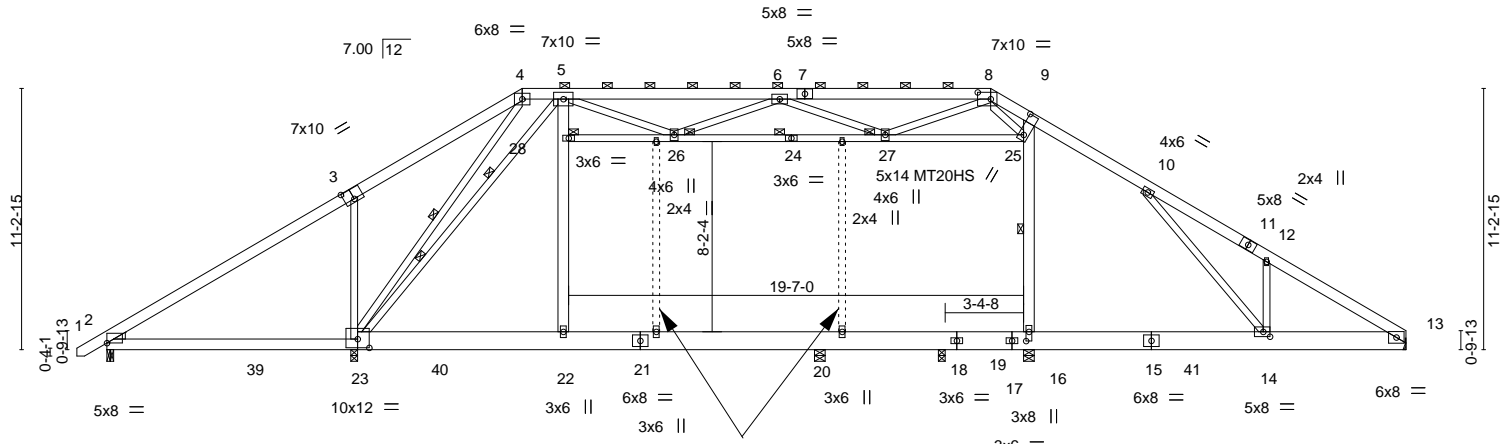
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:40 2020 Page 1

ID: jTgj18SwfyF8hyT9h0Yt9kzZiYQ-BAI649AcfG9YUGGBrivi8vJM_puQaCsilVm48ryma_L

1-3-8	10-7-12	17-10-8	19-7-12	28-11-8	38-0-8	39-8-4	44-7-5	49-11-0	55-11-0
1-3-8	10-7-12	7-2-12	1-9-4	9-3-12	9-1-0	1-7-12	4-11-1	5-3-11	6-0-0

Scale = 1:99.2



NON-STRUCTURAL STUD(S) FOR TRUSS HANDLING.
TO BE REMOVED AFTER TRUSS IS INSTALLED.

10-7-12	19-7-12	23-7-12	30-11-0	31-7-12	36-1-0	39-8-4	49-11-0	55-11-0
10-7-12	9-0-0	4-0-0	7-3-4	0-8-12	4-5-4	3-7-4	10-2-12	6-0-0

Plate Offsets (X,Y)--	[2:0-0-0,0-0-0]	[3:0-5-0,0-5-4]	[8:0-6-12,0-3-8]	[9:0-0-0,0-3-3]	[14:0-3-8,0-2-8]	[16:0-4-12,0-1-8]	[23:0-6-0,0-4-8]	[25:0-11-0,0-2-8]
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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 0.87	Vert(LL)	0.31 14-16	>634	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.24 14-16	>813	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.19 16	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Attic	0.02 16-17	875	360		Weight: 545 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 8-11: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 4-8.
BOT CHORD 2x10 SP DSS *Except* 2-23: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-22,9-16: 2x6 SP No.2, 24-25,24-28,4-23,5-23: 2x4 SP No.2	WEBS 1 Row at midpt 26-27, 16-25, 4-23 2 Rows at 1/3 pts 5-23
WEDGE Left: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 26, 27, 28

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8, 13=Mechanical, 23=0-4-0 (input: 0-3-8), 19=0-3-8.
(lb) - Max Horz 23=484(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 19 except 2=-916(LC 23), 16=-479(LC 13), 13=-495(LC 13), 23=-1148(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 19 except 2=478(LC 9), 16=1615(LC 2), 13=727(LC 21), 23=3384(LC 26), 20=1328(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1032/2358, 3-4=-772/2340, 4-5=-376/1241, 5-6=-1135/1163, 6-8=-1139/1003, 8-9=-975/1082, 9-10=-256/478, 10-12=-1073/786, 12-13=-657/384
BOT CHORD 2-23=-1832/999, 13-14=-221/506
WEBS 3-23=-981/814, 22-28=0/717, 5-28=0/730, 26-27=-1510/1779, 25-27=-720/613, 16-25=-1357/757, 9-25=-1659/1203, 12-14=-917/735, 5-26=-764/1065, 6-26=-822/861, 6-27=-768/829, 8-27=-693/991, 8-25=-898/1144, 4-23=-1409/379, 5-23=-1592/650, 10-14=-365/835

- NOTES-** (15)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - Ceiling dead load (5.0 psf) on member(s). 26-28, 26-27, 25-27; Wall dead load (5.0psf) on member(s).22-28, 16-25
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 20-22, 19-20, 18-19, 16-17
 - WARNING: Required bearing size at joint(s) 23 greater than input bearing size.
 - Refer to girder(s) for truss to truss connections.



August 19, 2020

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A33	ATTIC	16	1		I42477975
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:40 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-BAI649AcfG9YUGGBrivi8vJM_puQaCsilVm48ryma_L

NOTES- (15)

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 2=916, 16=479, 13=495, 23=1148.
- 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) Attic room checked for L/360 deflection.
- 15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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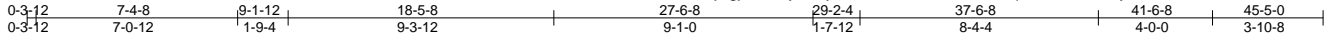
818 Soundside Road
 Edenton, NC 27932

Job 2434707_MASTER	Truss A34	Truss Type ATTIC	Qty 16	Ply 1	H&H/Calabash/ Job Reference (optional)	142477976
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:42 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-7ZQsVqCsBtQGkaPay7xADKOnRdd027i_DoFBCjyma_J



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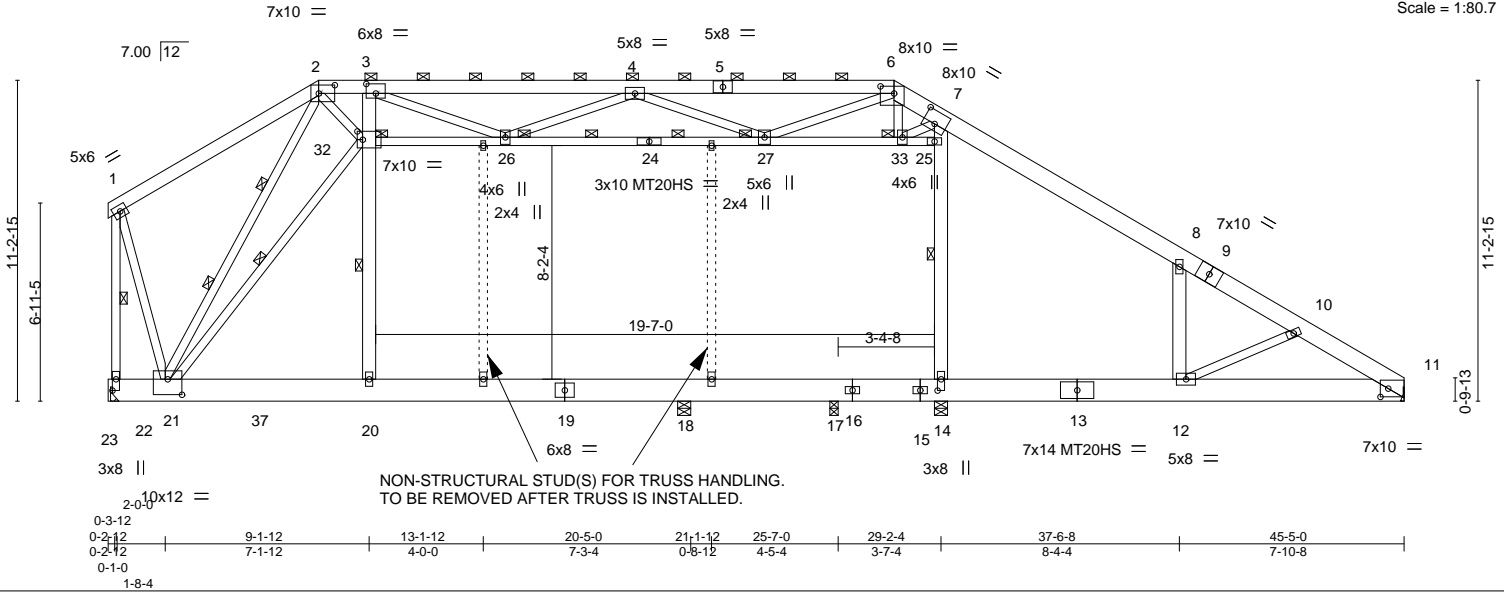


Plate Offsets (X,Y)--	[2:0-6-12,0-3-8], [3:0-4-0,0-4-0], [6:0-5-12,0-3-0], [7:0-5-0,0-5-4], [11:0-3-5,0-3-8], [14:0-4-12,0-1-8], [21:0-6-0,0-6-8], [22:0-4-12,0-1-8], [32:0-2-4,0-3-8]
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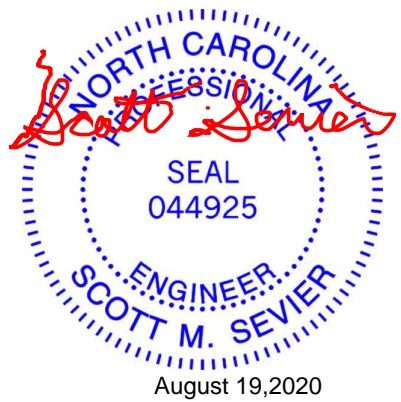
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	-0.28 18-20	>848	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.51 18-20	>467	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.58 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.38 18-20	>630	240		Weight: 511 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 6-9,9-11: 2x8 SP DSS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-7-12 max.): 2-6.
BOT CHORD 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 3-20,7-14,8-12: 2x6 SP No.2, 24-25,24-32,2-32: 2x4 SP No.2 2-21: 2x4 SP No.1	WEBS 1 Row at midpt 20-32, 14-25, 1-22, 21-32 2 Rows at 1/3 pts 26-27, 2-21
	JOINTS 1 Brace at Jt(s): 26, 27, 32, 33

REACTIONS. All bearings 0-5-8 except (jt=length) 11=Mechanical, 22=Mechanical, 17=0-3-8.
 (lb) - Max Horz 22=-567(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 14=-333(LC 8), 11=-472(LC 13), 22=-365(LC 13), 18=-155(LC 9), 17=-231(LC 24)
 Max Grav All reactions 250 lb or less at joint(s) 17 except 14=2308(LC 2), 11=811(LC 21), 22=1171(LC 26), 18=1662(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-455/283, 2-3=-3094/1173, 3-4=-3015/1598, 4-6=-1622/1275, 6-7=-526/645,
 7-8=-276/570, 8-10=-422/358, 10-11=-1088/679, 1-22=-1351/587
 BOT CHORD 21-22=-346/561, 11-12=-570/1076
 WEBS 20-32=-400/634, 3-32=-613/841, 26-32=-1301/3620, 26-27=-2139/2868, 27-33=-804/632,
 25-33=-285/183, 14-25=-1693/687, 7-25=-1622/699, 8-12=0/539, 3-26=-757/281,
 4-26=-134/840, 4-27=-1505/880, 6-27=-746/1696, 2-21=-2273/700, 1-21=-298/1027,
 21-32=-943/2533, 2-32=-943/2842, 7-33=-985/762, 6-33=-365/500, 10-12=-1213/632

- NOTES-** (15)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 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.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 26-32, 26-27, 27-33, 25-33; Wall dead load (5.0psf) on member(s). 20-32, 14-25, 8-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-20, 17-18, 16-17, 14-15, 12-14
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint 14, 472 lb uplift at joint 11, 365 lb uplift at joint 22, 155 lb uplift at joint 18 and 231 lb uplift at joint 17.



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A34	ATTIC	16	1		I42477976
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:42 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-7ZQsVqCsBtQGkaPay7xADKOnRdd027i_DoFBCjyma_J

NOTES- (15)

- 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) Attic room checked for L/360 deflection.
- 15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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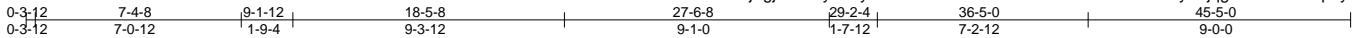
818 Soundside Road
 Edenton, NC 27932

Job 2434707_MASTER	Truss A36	Truss Type ATTIC	Qty 8	Ply 1	H&H/Calabash/ Job Reference (optional)	142477978
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:45 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Y19kzZiYQ-Y86?7sEIUorb289dFUtry0Fjgg8FXeRvmUrp2yma_G



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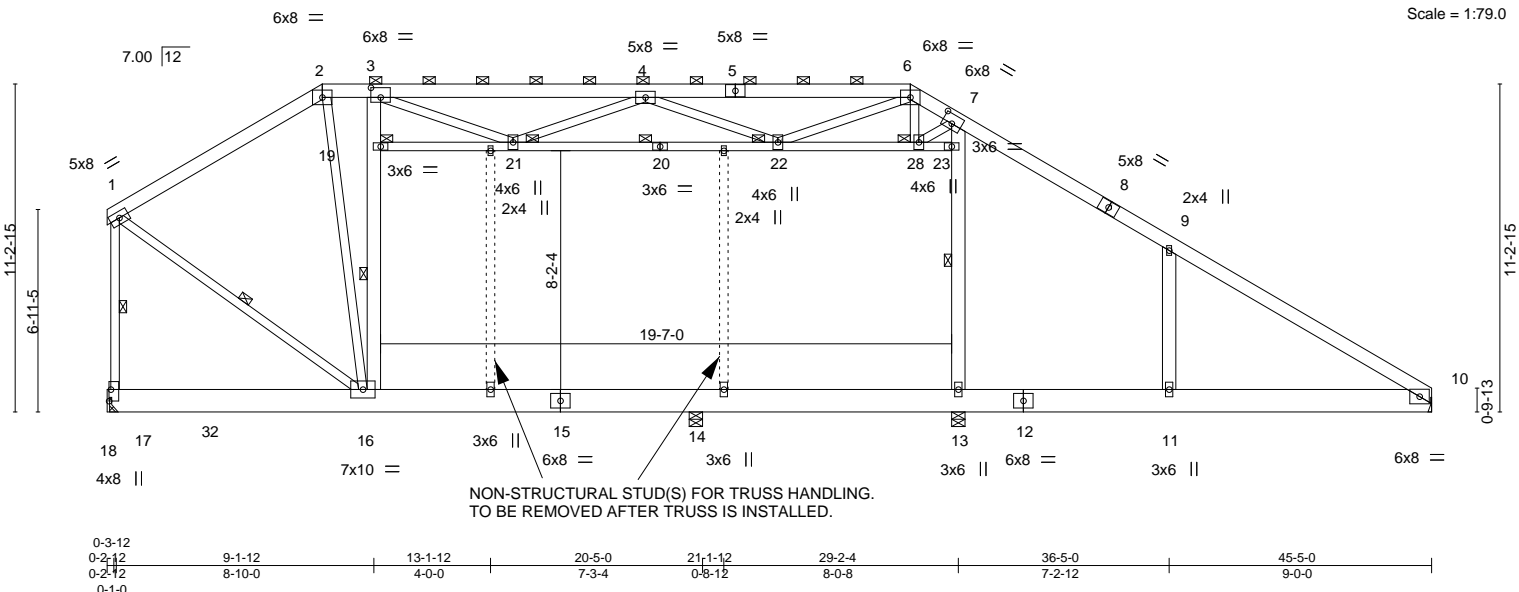


Plate Offsets (X,Y)-- [3:0-4-0,0-4-0], [7:0-4-0,0-3-12], [17:0-4-12,0-0-12]

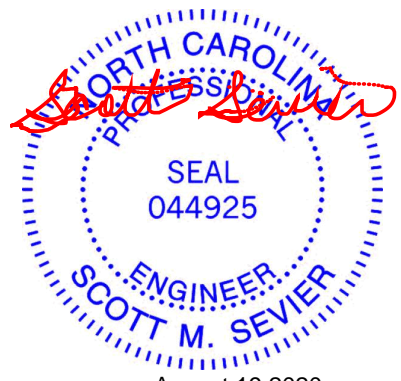
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	0.37 11-31	>526	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.37 11-31	>523	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	-0.02 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Attic	-0.19 11-13	913	360		
								Weight: 476 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 (4-10-11 max.): 2-6.
BOT CHORD 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 3-16,7-13,9-11: 2x6 SP No.2, 19-20,20-23: 2x4 SP No.2	WEBS 1 Row at midpt 16-19, 21-22, 13-23, 1-17, 1-16 JOINTS 1 Brace at Jt(s): 19, 21, 22, 28

REACTIONS. All bearings 0-5-8 except (jt=length) 10=Mechanical, 17=Mechanical.
 (lb) - Max Horz 17=-620(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 13=-730(LC 13), 10=-187(LC 13), 17=-466(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 13=2039(LC 21), 10=1256(LC 2), 17=1790(LC 2), 14=1096(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1365/701, 2-3=-1186/749, 3-4=-1883/1280, 4-6=-1824/1253, 6-7=-1143/819,
 7-9=-1404/672, 9-10=-1538/676, 1-17=-1657/732
 BOT CHORD 16-17=-429/524, 14-16=-596/1345, 13-14=-596/1345, 11-13=-585/1333, 10-11=-585/1333
 WEBS 16-19=-921/797, 3-19=-828/802, 21-22=-1300/1494, 22-28=-561/166, 13-23=-621/565,
 7-23=-544/575, 9-11=-604/506, 3-21=-676/958, 4-21=-716/779, 4-22=-809/767,
 6-22=-630/1002, 2-16=-334/599, 1-16=-484/1391, 6-28=-87/328, 7-28=-572/178

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 19-21, 21-22, 22-28, 23-28; Wall dead load (5.0psf) on member(s).16-19, 13-23, 9-11
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16, 13-14, 11-13
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 730 lb uplift at joint 13, 187 lb uplift at joint 10 and 466 lb uplift at joint 17.
 - 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.
 - Attic room checked for L/360 deflection.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



August 19,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/
2434707_MASTER	A37	ATTIC	5	1	I42477979

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:49 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZIYQ-QvLWzDHFX11G3fSws5Zp0oB0_R0aBHR0qOS2ypyma_C

NOTES- (13)

- 12) Attic room checked for L/360 deflection.
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477980
2434707_MASTER	A38	ATTIC	5	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:50 2020 Page 1
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-u6vuBZItLQ7hp06Qo42Y0jBgrMpwkkA22BcUGyma_B



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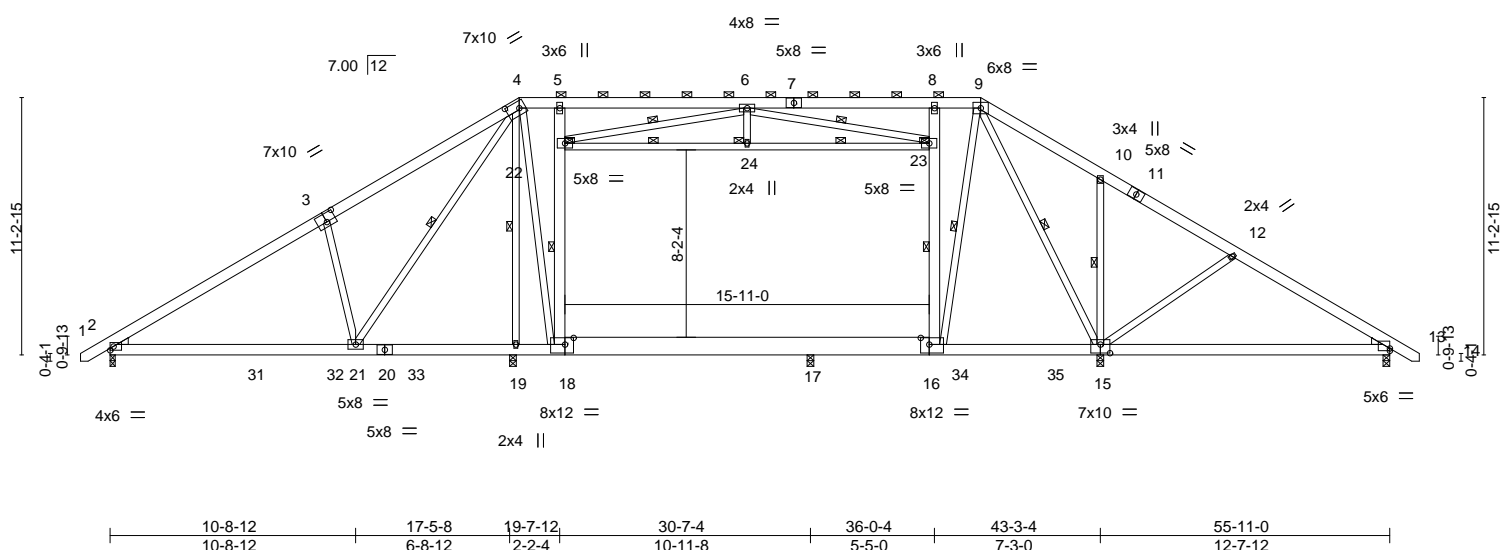


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [4:0-6-12,0-3-8], [13:0-0-0,0-1-4], [15:0-5-0,0-4-8], [16:0-4-8,0-3-8], [18:0-4-8,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.41	Vert(LL)	-0.13 15-27	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.25 15-27	>602	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.02 15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.11 21-30	>999	240	Weight: 518 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except* 10-15: 2x4 SP No.2, 16-18: 2x10 SP DSS	2-0-0 oc purlins (6-0-0 max.): 4-9.
WEBS 2x4 SP No.3 *Except* 5-18,8-16: 2x6 SP No.2, 22-23,4-21: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 10-15
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	WEBS 1 Row at midpt 18-22, 22-24, 23-24, 16-23, 9-16, 6-22, 6-23, 9-15, 4-21, 4-19
	JOINTS 1 Brace at Jt(s): 22, 23, 24

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-2-11.
 (lb) - Max Horz 2=494(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 15=728(LC 13), 19=499(LC 12), 13=231(LC 13), 2=379(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 15=1749(LC 1), 19=1678(LC 26), 13=533(LC 21), 2=962(LC 1), 17=1263(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=1202/601, 3-4=1355/847, 4-5=669/538, 5-6=638/509, 6-8=656/521, 8-9=674/542, 9-10=243/276, 12-13=379/168
 BOT CHORD 10-15=511/464, 2-21=418/1124, 19-21=179/508, 18-19=185/524, 17-18=220/669, 16-17=220/674, 15-16=136/533, 13-15=0/254
 WEBS 3-21=837/721, 18-22=850/684, 5-22=453/505, 22-24=846/1185, 23-24=846/1185, 16-23=854/645, 8-23=461/468, 9-16=458/818, 6-22=1240/889, 6-23=1214/877, 9-15=1003/415, 12-15=642/495, 4-21=728/1213, 4-19=1381/512, 4-18=412/965

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 22-24, 23-24; Wall dead load (5.0psf) on member(s). 18-22, 16-23
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18, 16-17
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 728 lb uplift at joint 15, 499 lb uplift at joint 19, 231 lb uplift at joint 13 and 379 lb uplift at joint 2.
 - 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.
- On the graphic 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. 5/19/2020 BEFORE USE.
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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A38	ATTIC	5	1		I42477980
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:51 2020 Page 2
 ID:jtGj18SwfyF8hyT9h0Yt9kzZiYQ-NITGOvJW3eY_JzbJ_WbH5DGMPFi2fB_JHix90iyma_A

NOTES- (13)

- 12) Attic room checked for L/360 deflection.
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477981
2434707_MASTER	A39	ATTIC	10	1		

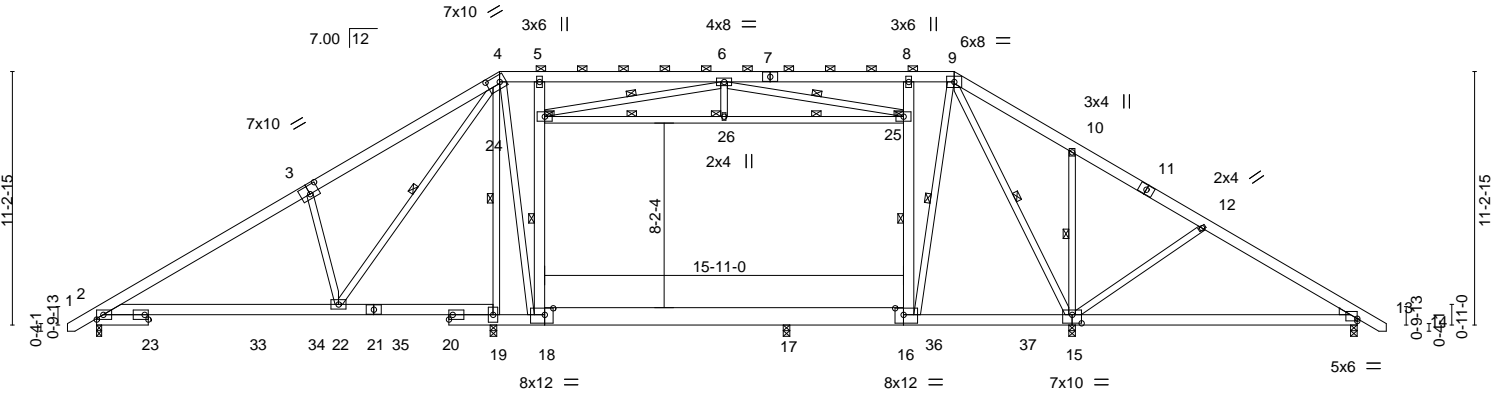
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:52 2020 Page 1

ID: jTg18SwfyF8hyT9h0Y19kzZiYQ-rU1ebFJ8qygrw6AVYD6WdRpXwf2OOeiTWMGjZ8yma_9



Scale = 1:102.2



	10-8-12	17-5-8	19-7-12	30-7-4	36-0-4	43-3-4	55-11-0
	10-8-12	6-8-12	2-2-4	10-11-8	5-5-0	7-3-0	12-7-12
Plate Offsets (X,Y)--	[3:0-5-0,0-4-8]	[4:0-6-12,0-3-8]	[13:0-0-0,0-1-4]	[15:0-5-0,0-4-8]	[16:0-4-8,0-3-8]	[18:0-4-8,0-3-8]	

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 0.43	Vert(LL)	-0.13 15-32	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.25 15-32	>598	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.02 15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.14 22-27	>999	240	Weight: 525 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD 2x6 SP No.2 *Except* 10-15: 2x4 SP No.2, 16-18: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 10-15
WEBS 2x4 SP No.3 *Except* 5-18,8-16: 2x6 SP No.2, 24-25: 2x4 SP No.2	WEBS 1 Row at midpt 18-24, 24-26, 25-26, 16-25, 9-16, 6-24, 6-25, 9-15, 4-22, 4-19
WEDGE Right: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 24, 25, 26

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-2-11.
 (lb) - Max Horz 2=495(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-349(LC 12), 15=-732(LC 13), 19=-531(LC 12), 13=-227(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=910(LC 1), 15=1809(LC 1), 19=1722(LC 20), 13=478(LC 21), 17=1270(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1118/559, 3-4=-1246/791, 4-5=-537/492, 5-6=-501/461, 6-8=-533/478, 8-9=-544/496, 9-10=-130/405, 10-12=-125/337, 12-13=-278/160
 BOT CHORD 2-22=-404/1036, 19-22=-190/433, 18-19=-183/448, 17-18=-191/579, 16-17=-191/585, 15-16=-163/447, 10-15=-509/464
 WEBS 3-22=-843/705, 18-24=-862/682, 5-24=-464/503, 24-26=-847/1184, 25-26=-847/1184, 16-25=-850/644, 8-25=-459/468, 9-16=-453/802, 6-24=-1243/891, 6-25=-1209/874, 9-15=-1067/441, 12-15=-650/495, 4-22=-704/1240, 4-19=-1374/525, 4-18=-410/900

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 24-26, 25-26; Wall dead load (5.0psf) on member(s). 18-24, 16-25
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18, 16-17
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 349 lb uplift at joint 2, 732 lb uplift at joint 15, 531 lb uplift at joint 19 and 227 lb uplift at joint 13.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheathing be applied directly to the bottom chord.



August 19, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/
2434707_MASTER	A39	ATTIC	10	1	I42477981

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:52 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-rU1ebFJ8qygrw6AVYD6WdRpXwf2OOeITWMgjZ8yma_9

NOTES- (14)

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.
- 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.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477982
2434707_MASTER	A40	ATTIC	15	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:54 2020 Page 1

ID:jtGj18SwfyF8hyT9h0Y19kzZiYQ-nt8P0xLOmZwZAQKufe9_jsusQsJqsXalzg9pd1yma_7



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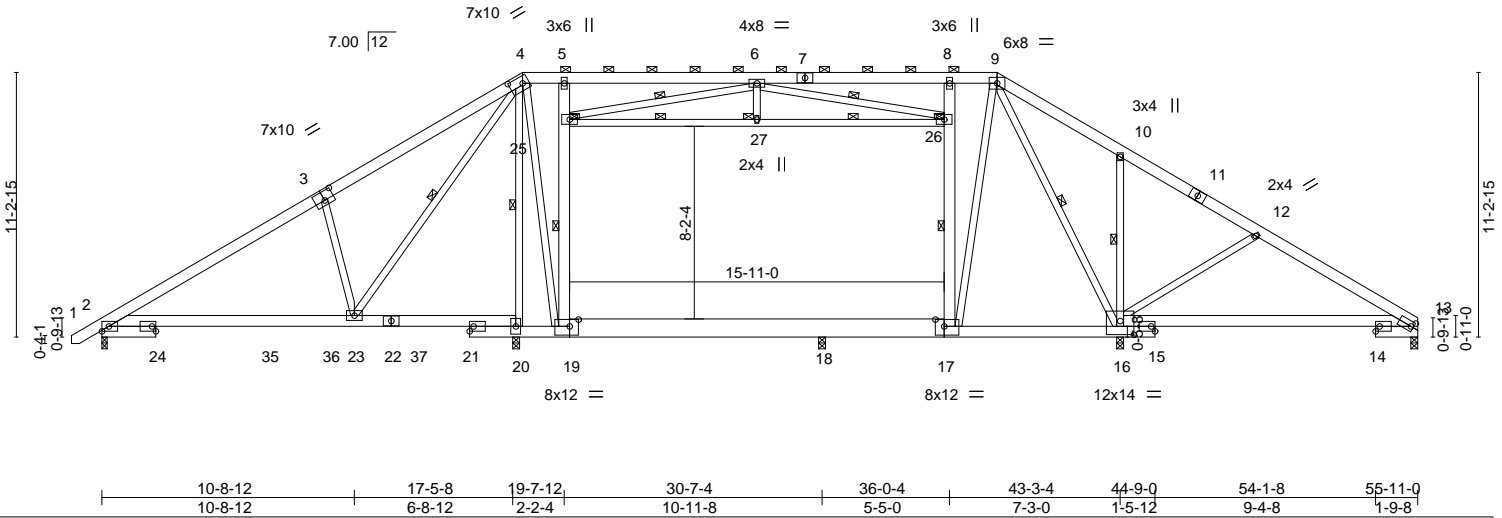


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [4:0-6-12,0-3-8], [13:0-1-6,0-2-8], [16:0-7-0,0-7-0], [17:0-4-8,0-3-8], [19:0-4-8,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.10 16-33	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.21 23-28	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.02 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.14 23-28	>999	240	Weight: 527 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except*	2-0-0 oc purlins (6-0-0 max.): 4-9.
10-16: 2x4 SP No.2, 17-19: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied. Except:
WEBS 2x4 SP No.3 *Except*	6-0-0 oc bracing: 10-16
5-19,8-17: 2x6 SP No.2, 25-26: 2x4 SP No.2	WEBS 1 Row at midpt 19-25, 25-27, 26-27, 17-26, 6-25, 6-26, 9-16, 4-23, 4-20
	JOINTS 1 Brace at Jt(s): 25, 26, 27

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-2-11.
 (lb) - Max Horz 2=483(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-367(LC 12), 16=-731(LC 13), 13=-164(LC 13), 20=-513(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 2=868(LC 24), 16=1897(LC 1), 13=312(LC 21), 20=1797(LC 20), 18=1287(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1033/570, 3-4=-1099/801, 4-5=-417/497, 5-6=-386/465, 6-8=-410/485, 8-9=-423/502, 9-10=0/498, 10-12=-120/499
 BOT CHORD 2-23=-495/889, 20-23=-302/364, 19-20=-293/363, 18-19=-283/448, 17-18=-281/454, 16-17=-260/378, 10-16=-519/470
 WEBS 3-23=-843/705, 19-25=-858/683, 5-25=-461/504, 25-27=-847/1184, 26-27=-847/1184, 17-26=-854/639, 8-26=-463/463, 9-17=-442/785, 6-25=-1239/893, 6-26=-1212/873, 9-16=-1146/440, 12-16=-634/485, 4-23=-708/1232, 4-20=-1443/517, 4-19=-409/897

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 25-27, 26-27; Wall dead load (5.0psf) on member(s). 19-25, 17-26
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-19, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 2, 731 lb uplift at joint 16, 164 lb uplift at joint 13 and 513 lb uplift at joint 20.
 - 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.
- On the truss 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. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A40	ATTIC	15	1		I42477982
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:54 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Y19kzZiYQ-nt8P0xLOMZwZAQKufe9_jsusQsXalzg9pd1yma_7

NOTES- (14)

- 13) Attic room checked for L/360 deflection.
- 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.

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818 Soundside Road
 Edenton, NC 27932

Job 2434707_MASTER	Truss A41	Truss Type ATTIC	Qty 5	Ply 1	H&H/Calabash/ Job Reference (optional)	142477983
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:56 2020 Page 1

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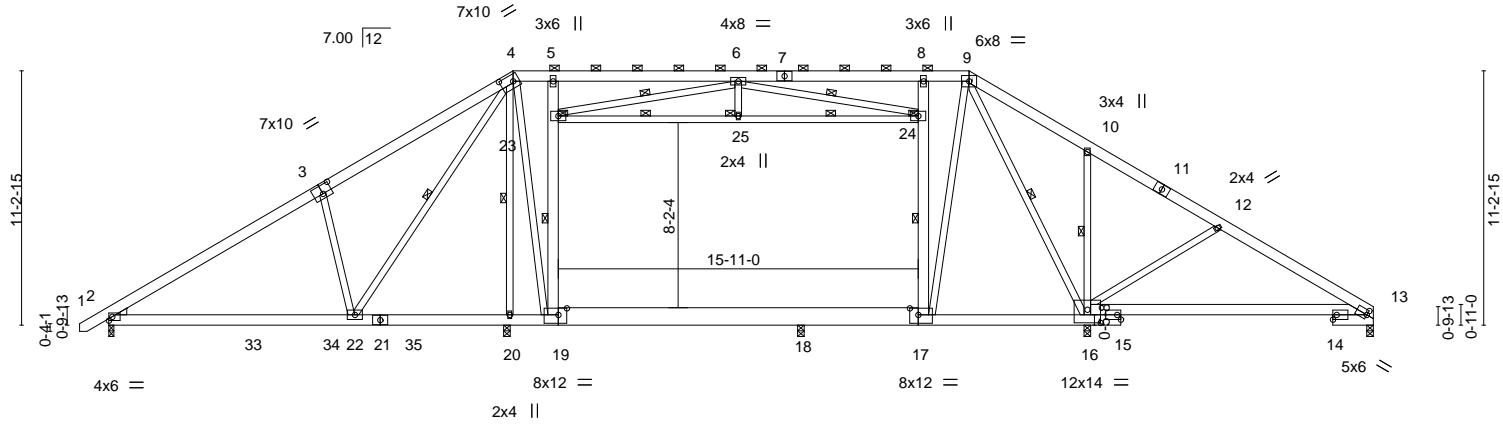


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [4:0-6-12,0-3-8], [13:0-0-2,0-2-8], [16:0-7-0,0-7-0], [17:0-4-8,0-3-8], [19:0-4-8,0-3-8]
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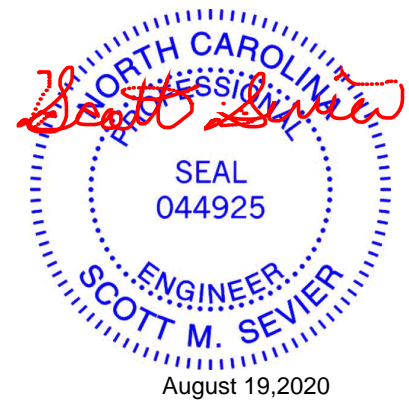
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.10	16-31	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.20	16-31	>734		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.02	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.11	22-28	>999	Weight: 520 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except* 10-16: 2x4 SP No.2, 17-19: 2x10 SP DSS	2-0-0 oc purlins (6-0-0 max.): 4-9.
WEBS 2x4 SP No.3 *Except* 5-19,8-17: 2x6 SP No.2, 23-24,4-22: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 10-16
WEDGE Left: 2x4 SP No.3	WEBS 1 Row at midpt 19-23, 23-25, 24-25, 17-24, 6-23, 6-24, 9-16, 4-22, 4-20
	JOINTS 1 Brace at Jt(s): 23, 24, 25

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-2-11.
 (lb) - Max Horz 2=484(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-392(LC 12), 16=-726(LC 13), 13=-169(LC 13), 20=-486(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 2=914(LC 24), 16=1845(LC 1), 13=360(LC 21), 20=1757(LC 2), 18=1281(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1088/603, 3-4=-1193/843, 4-5=-531/540, 5-6=-506/510, 6-8=-514/523, 8-9=-535/544, 9-10=-7/380, 10-12=-64/380
 BOT CHORD 2-22=-500/971, 20-22=-274/367, 19-20=-272/383, 18-19=-306/525, 17-18=-306/531, 16-17=-245/414, 10-16=-518/470
 WEBS 3-22=-840/718, 19-23=-848/685, 5-23=-452/505, 23-25=-847/1186, 24-25=-847/1186, 17-24=-858/641, 8-24=-466/464, 9-17=-446/795, 6-23=-1235/890, 6-24=-1217/876, 9-16=-1089/410, 12-16=-634/485, 4-22=-720/1214, 4-20=-1457/508, 4-19=-415/953

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 23-25, 24-25; Wall dead load (5.0psf) on member(s). 19-23, 17-24
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-19, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 392 lb uplift at joint 2, 726 lb uplift at joint 16, 169 lb uplift at joint 13 and 486 lb uplift at joint 20.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheathing be applied directly to the bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A41	ATTIC	5	1		I42477983
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:56 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Y19kzZiYQ-jFG9RdMeuBAHPkUGn3BSoHzC3GPgKRy2R_fwivyma_5

NOTES- (14)

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.
- 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.

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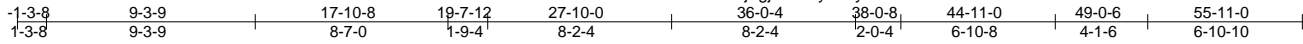
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477984
2434707_MASTER	A42	ATTIC	8	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:58 2020 Page 1

ID:jtTgj18SwfyF8hyT9h0Yt9kzZiYQ-feOvslOvQoR?e1efuUDwti3Xk349oQmLui81moyma_3



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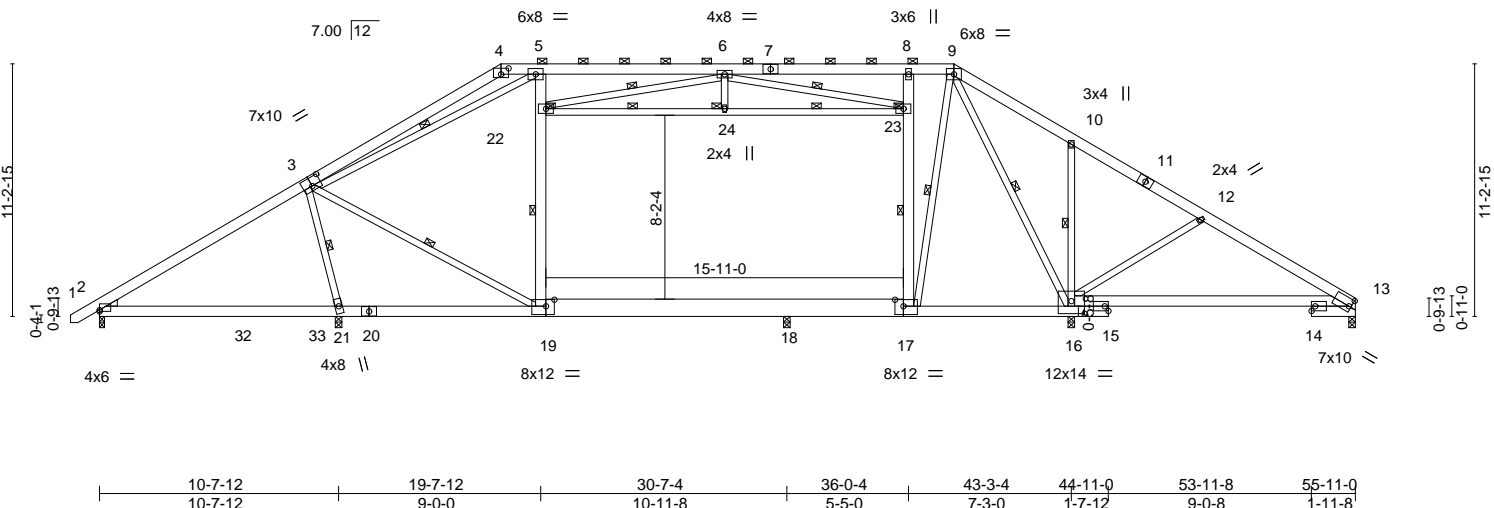


Plate Offsets (X,Y)--	[2:0-0,0,0-12], [3:0-5,0,0-4-8], [4:0-4,0,0-3-3], [13:0-1-4,0,4-0], [16:0-7,0,0-6-12], [17:0-4-8,0-3-8], [19:0-4-8,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(LL) -0.11 16-30 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Vert(CT) -0.24 16-30 >622 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) 0.03 13 n/a n/a		
			Wind(LL) 0.09 21-27 >999 240	Weight: 505 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except* 10-16: 2x4 SP No.2, 17-19: 2x10 SP DSS	2-0-0 oc purlins (6-0-0 max.): 4-9.
WEBS 2x4 SP No.3 *Except* 5-19,8-17: 2x6 SP No.2, 22-23: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 10-16
WEDGE Left: 2x4 SP No.3	WEBS 1 Row at midpt 3-21, 19-22, 22-24, 23-24, 17-23, 9-17, 6-22, 6-23, 9-16, 3-19, 3-5
	JOINTS 1 Brace at Jt(s): 22, 23, 24

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-2-11.
 (lb) - Max Horz 2=484(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-233(LC 12), 16=-709(LC 13),
 13=-193(LC 12), 21=-642(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 2=418(LC 24), 16=1590(LC 25),
 13=691(LC 2), 21=2156(LC 2), 18=1277(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-180/380, 3-4=-765/491, 4-5=-683/550, 5-6=-1029/720, 6-8=-943/699,
 8-9=-1010/737, 9-10=-734/530, 10-12=-730/303, 12-13=-961/440
 BOT CHORD 2-21=-288/251, 19-21=-533/231, 18-19=-447/991, 17-18=-448/997, 16-17=-362/862,
 13-16=-242/840, 10-16=-514/470
 WEBS 3-21=-1853/909, 19-22=-509/458, 5-22=-122/282, 22-24=-840/1194, 23-24=-840/1194,
 17-23=-897/651, 8-23=-494/473, 9-17=-462/852, 6-22=-1217/894, 6-23=-1271/890,
 9-16=-808/432, 12-16=-633/484, 3-19=-385/1578, 3-5=-766/647

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 22-24, 23-24; Wall dead load (5.0psf) on member(s). 19-22, 17-23
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-19, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2, 709 lb uplift at joint 16, 193 lb uplift at joint 13 and 642 lb uplift at joint 21.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheathing be applied directly to the bottom chord.



Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A42	ATTIC	8	1		I42477984
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:58 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZIYQ-feOvslOvQoR?e1efuUDwti3Xk349oQmLuI81moyma_3

NOTES- (14)

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.
- 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. 5/19/2020 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477985
2434707_MASTER	A43	ATTIC	8	1		

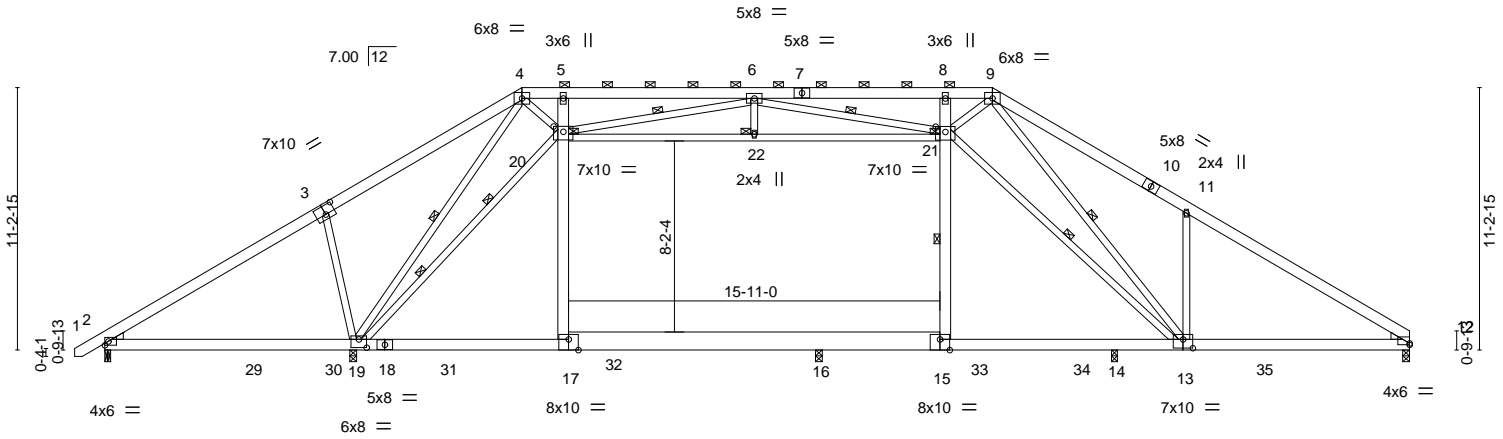
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:59 2020 Page 1

ID: jTgj18SwfyF8hyT9h0Yt9kzZiYQ-8qyl4ePXB6ZsGBDrSBk9QvbiVTkXxrIU7ytaJEyma_2



Scale = 1:98.7



	10-7-12	19-7-12	30-7-4	36-0-4	43-4-12	46-4-4	55-11-0
	10-7-12	9-0-0	10-11-8	5-5-0	7-4-8	2-11-8	9-6-12
Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [12:0-0-0,0-0-12], [13:0-5-0,0-4-8], [15:0-5-0,Edge], [17:0-5-0,Edge], [19:0-4-0,0-4-4], [20:0-5-0,0-2-12], [21:0-5-0,0-2-12]						

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.12 13-28	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.24 13-28	>625	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.04 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.18 13-28	>854	240	Weight: 503 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except* 15-17: 2x10 SP DSS	2-0-0 oc purlins (5-5-15 max.): 4-9.
WEBS 2x4 SP No.3 *Except* 5-17,8-15: 2x6 SP No.2, 20-21,4-19,19-20,9-13,13-21: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	WEBS 1 Row at midpt 15-21, 6-20, 6-21, 4-19, 9-13, 13-21 2 Rows at 1/3 pts 19-20
	JOINTS 1 Brace at Jt(s): 20, 21, 22

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-3-0, 14=0-3-0.
 (lb) - Max Horz 2=484(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-299(LC 13), 19=-673(LC 9),
 12=-542(LC 13), 14=-174(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 2=594(LC 1), 19=2249(LC 26),
 12=1342(LC 21), 16=1373(LC 18), 14=639(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-558/473, 3-4=-716/627, 4-5=-629/260, 5-6=-617/239, 6-8=-1602/997,
 8-9=-1610/998, 9-11=-2274/1393, 11-12=-1955/988
 BOT CHORD 2-19=-189/358, 17-19=-386/1357, 16-17=-383/1389, 15-16=-383/1399, 14-15=-382/1381,
 13-14=-382/1381, 12-13=-654/1596
 WEBS 3-19=-857/731, 17-20=0/763, 5-20=-480/507, 20-22=-658/891, 21-22=-657/891,
 15-21=-377/437, 8-21=-424/487, 11-13=-908/792, 6-20=-1859/1334, 6-21=-971/942,
 4-19=-653/209, 19-20=-1505/749, 9-13=-557/841, 13-21=-490/571, 4-20=-121/492,
 9-21=-172/343

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 20-22, 21-22; Wall dead load (5.0psf) on member(s). 17-20, 15-21
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17, 15-16
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 2, 673 lb uplift at joint 19, 542 lb uplift at joint 12 and 174 lb uplift at joint 14.
 - 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.
- On-Grade bracing representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A43	ATTIC	8	1		I42477985
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:32:59 2020 Page 2
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-8qyl4ePXB6ZsGBDrSBk9QvbiVTkXrfU7ytaJEyma_2

NOTES- (12)

- 11) Attic room checked for L/360 deflection.
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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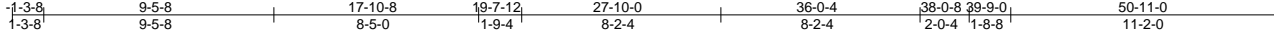
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477986
2434707_MASTER	A44	ATTIC	8	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:01 2020 Page 1

ID:jtGj18SwfyF8hyT9h0Yt9kzZiYQ-4D32UKQnjppZVvMEZcndVKh2VH4A?iKnaGMhN7yma_0



Scale = 1:94.7

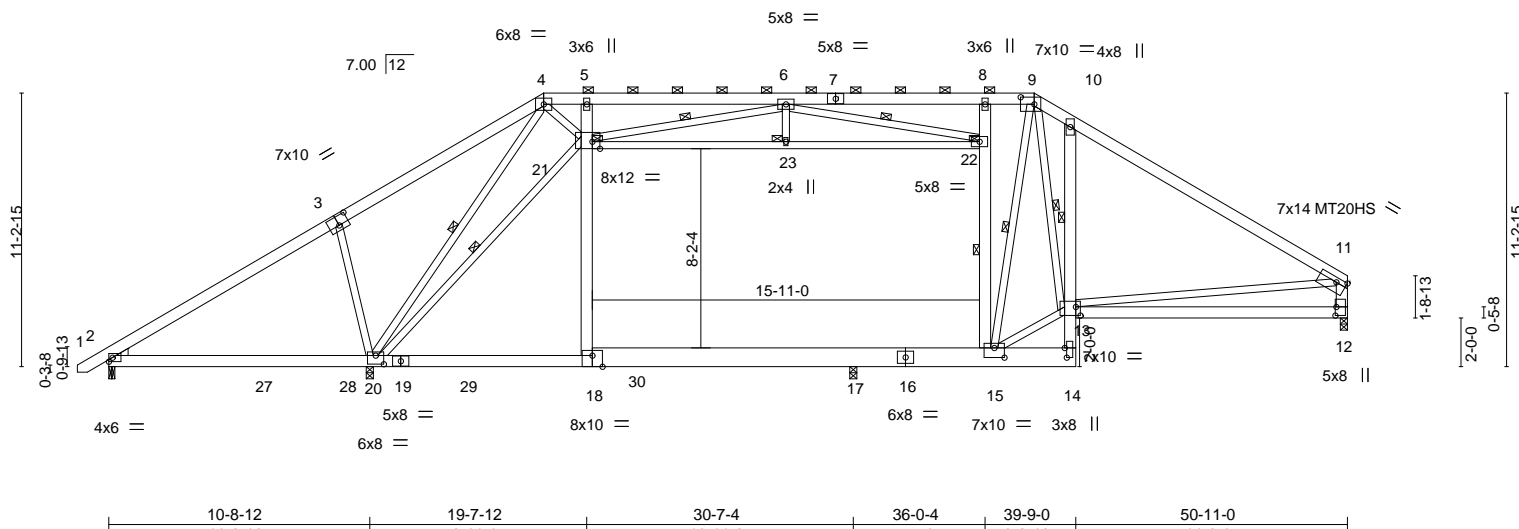


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [9:0-6-12,0-3-8], [11:0-5-0,0-2-4], [12:0-4-4,0-0-8], [13:0-2-4,0-4-4], [14:0-4-12,0-1-0], [15:0-5-0,0-4-12], [18:0-5-0,Edge], [20:0-4-0,0-4-4], [21:0-3-12,0-3-7]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.50	Vert(LL) -0.11	12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.59	Vert(CT) -0.25	12-13	>965	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES		WB 0.99	Horz(CT) 0.05	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL) 0.13	14-15	>999	240		
								Weight: 504 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.): 4-9.
BOT CHORD 2x6 SP No.2 *Except* 14-16,16-18: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied. Except: 1 Row at midpt 10-13
WEBS 2x4 SP No.3 *Except* 5-18,8-15,11-12: 2x6 SP No.2, 21-22,4-20,20-21: 2x4 SP No.2	WEBS 1 Row at midpt 15-22, 6-21, 6-22, 9-13, 9-15, 4-20, 20-21
WEDGE Left: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 21, 22, 23

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-3-0.
 (lb) - Max Horz 2=472(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 17 except 2=-270(LC 13), 20=-722(LC 9), 12=-494(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=579(LC 1), 20=2326(LC 26), 12=1489(LC 1), 17=1320(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-522/420, 3-4=-619/570, 4-5=-693/257, 5-6=-692/240, 6-8=-1325/847, 8-9=-1338/854, 9-10=-2090/1312, 10-11=-1962/955, 11-12=-1389/780
 BOT CHORD 2-20=-242/410, 18-20=-391/1209, 17-18=-391/1238, 15-17=-389/1229, 12-13=-347/669, 13-14=-230/429, 10-13=-855/854
 WEBS 3-20=-857/731, 18-21=0/765, 5-21=-479/504, 21-23=-736/877, 22-23=-736/877, 15-22=-807/638, 8-22=-475/470, 6-21=-1700/1240, 6-22=-960/809, 11-13=-353/1049, 9-13=-978/1703, 9-15=-484/160, 13-15=-251/1251, 4-20=-843/239, 20-21=-1363/739, 4-21=-124/638

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 21-23, 22-23; Wall dead load (5.0psf) on member(s).18-21, 15-22
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18, 15-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 2=270, 20=722, 12=494.



Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	I42477986
2434707_MASTER	A44	ATTIC	8	1		
Job Reference (optional)						

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:01 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-4D32UKQnjppZVVMEZcndVKh2VH4A?iKnaGMhN7yma_0

NOTES- (13)

- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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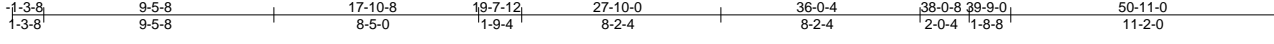
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477987
2434707_MASTER	A45	ATTIC	8	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:03 2020 Page 1

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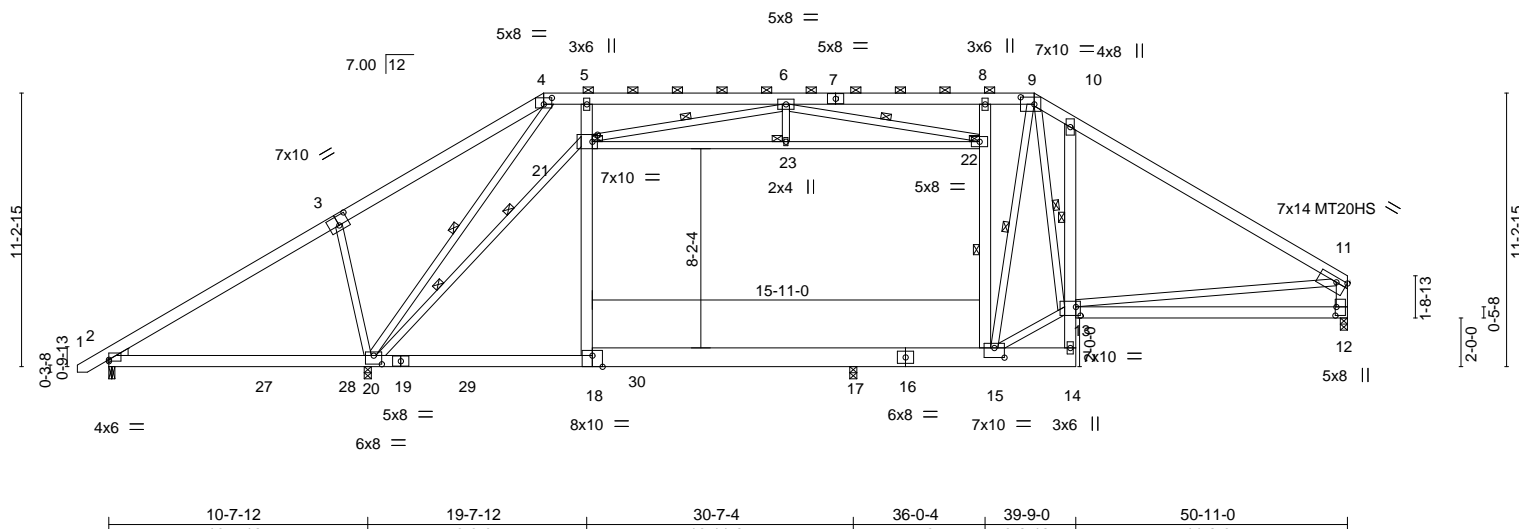


Plate Offsets (X,Y)--	[2:0-0-0,0-0-12], [3:0-5-0,0-4-8], [4:0-4-0,0-3-3], [9:0-6-12,0-3-8], [11:0-5-0,0-2-4], [12:0-4-4,0-0-8], [13:0-2-4,0-4-4], [15:0-5-0,0-4-12], [18:0-5-0,Edge], [20:0-4-0,0-4-4], [21:0-2-8,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.50	Vert(LL) -0.12	17-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.64	Vert(CT) -0.24	12-13	>986	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES		WB 0.91	Horz(CT) 0.05	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL) 0.13	10-13	>999	240		Weight: 501 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.): 4-9.
BOT CHORD 2x6 SP No.2 *Except* 14-16,16-18: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied. Except: 1 Row at midpt 10-13
WEBS 2x4 SP No.3 *Except* 5-18,8-15,11-12: 2x6 SP No.2, 21-22,4-20,20-21: 2x4 SP No.2	WEBS 1 Row at midpt 15-22, 6-21, 6-22, 9-13, 9-15, 4-20 2 Rows at 1/3 pts 20-21
WEDGE Left: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 21, 22, 23

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-3-0.
 (lb) - Max Horz 2=472(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 17 except 2=-335(LC 13), 20=-770(LC 9), 12=-502(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=530(LC 1), 20=2528(LC 26), 12=1489(LC 1), 17=1270(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-562/586, 3-4=-618/714, 4-5=-635/529, 5-6=-604/487, 6-8=-1331/857, 8-9=-1343/856, 9-10=-2095/1319, 10-11=-1961/964, 11-12=-1393/785
 BOT CHORD 2-20=-349/398, 18-20=-387/1233, 17-18=-391/1253, 15-17=-389/1244, 12-13=-348/669, 13-14=-231/395, 10-13=-854/848
 WEBS 3-20=-863/740, 18-21=0/762, 5-21=-421/524, 21-23=-674/748, 22-23=-674/748, 15-22=-780/626, 8-22=-475/470, 6-21=-1825/1143, 6-22=-842/753, 11-13=-352/1041, 9-13=-997/1703, 9-15=-497/196, 13-15=-258/1270, 4-20=-756/218, 20-21=-1735/705

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 21-23, 22-23; Wall dead load (5.0psf) on member(s). 18-21, 15-22
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18, 15-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 2=335, 20=770, 12=502.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheathing be applied directly to the bottom chord.



Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	A45	ATTIC	8	1		I42477987
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:03 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-0cBov0S1EK3HlpWch1p5almO_4msTd?42aroS?yama__

NOTES- (13)

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.
- 13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477988
2434707_MASTER	A46	GABLE	3	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:05 2020 Page 1
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-y_JZKiTlmyJ?_6g?oSrZfArqZua8xivNVtKvVuyMZy

-1-3-8	17-10-8	38-0-7	55-11-0	57-2-8
1-3-8	17-10-8	20-1-15	17-10-9	1-3-8

Scale = 1:101.7

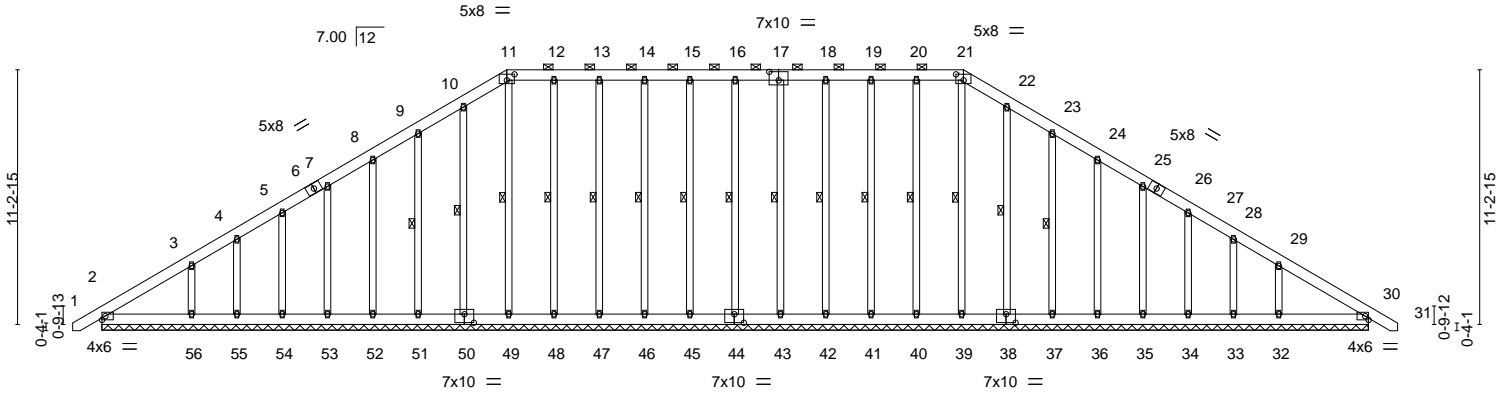


Plate Offsets (X,Y)--	[11:0-4-0,0-3-3], [17:0-5-0,0-4-8], [21:0-4-0,0-3-3], [38:0-5-0,0-4-8], [44:0-5-0,0-4-8], [50:0-5-0,0-4-8]
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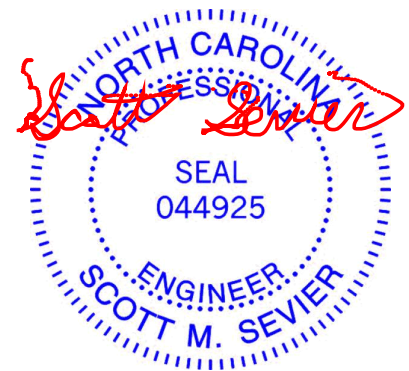
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	0.00	31	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	0.00	31	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.02	30	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 570 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-21.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 16-44, 15-45, 14-46, 13-47, 12-48, 11-49, 10-50, 9-51, 17-43, 18-42, 19-41, 20-40, 21-39, 22-38, 23-37

REACTIONS. All bearings 55-11-0.
 (lb) - Max Horz 2=493(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 30, 44, 45, 46, 47, 48, 49, 55, 43, 42, 41, 40, 39, 33 except 2=137(LC 8), 50=115(LC 12), 51=148(LC 12), 52=138(LC 12), 53=138(LC 12), 54=144(LC 12), 56=296(LC 12), 38=105(LC 13), 37=151(LC 13), 36=139(LC 13), 35=137(LC 13), 34=144(LC 13), 32=286(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 30, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33 except 2=283(LC 20), 56=378(LC 19), 32=367(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=443/405, 3-4=309/308, 4-5=283/294, 5-7=257/287, 7-8=231/317, 8-9=258/371, 9-10=338/429, 10-11=397/472, 11-12=372/450, 12-13=371/450, 13-14=371/450, 14-15=371/450, 15-16=371/450, 16-17=372/451, 17-18=371/450, 18-19=371/450, 19-20=371/450, 20-21=371/449, 21-22=396/472, 22-23=337/400, 23-24=258/306, 29-30=287/219
 BOT CHORD 2-56=230/339, 55-56=230/339, 54-55=230/339, 53-54=230/339, 52-53=230/339, 51-52=230/339, 50-51=230/339, 49-50=230/339, 48-49=230/338, 47-48=230/338, 46-47=230/338, 45-46=230/338, 44-45=230/338, 43-44=230/338, 42-43=230/338, 41-42=230/338, 40-41=230/338, 39-40=230/338, 38-39=231/339, 37-38=230/338, 36-37=230/338, 35-36=230/338, 34-35=230/338, 33-34=230/338, 32-33=230/338, 30-32=230/338
 WEBS 3-56=366/318, 29-32=367/308

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 4) Provide adequate drainage to prevent water ponding.
 5) All plates are 2x4 MT20 unless otherwise indicated.
 6) Gable requires continuous bottom chord bearing.



August 19, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/
2434707_MASTER	A46	GABLE	3	1	I42477988

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:06 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-QBtxY1UwXFRscGFBM9NoCOO?JlwNg99WkX4S1KymZzx

NOTES-

- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 44, 45, 46, 47, 48, 49, 55, 43, 42, 41, 40, 39, 33 except (jt=lb) 2=137, 50=115, 51=148, 52=138, 53=138, 54=144, 56=296, 38=105, 37=151, 36=139, 35=137, 34=144, 32=286.
- 11) 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. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job 2434707_MASTER	Truss A47	Truss Type PIGGYBACK BASE	Qty 3	Ply 1	H&H/Calabash/ Job Reference (optional)	142477989
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:07 2020 Page 1

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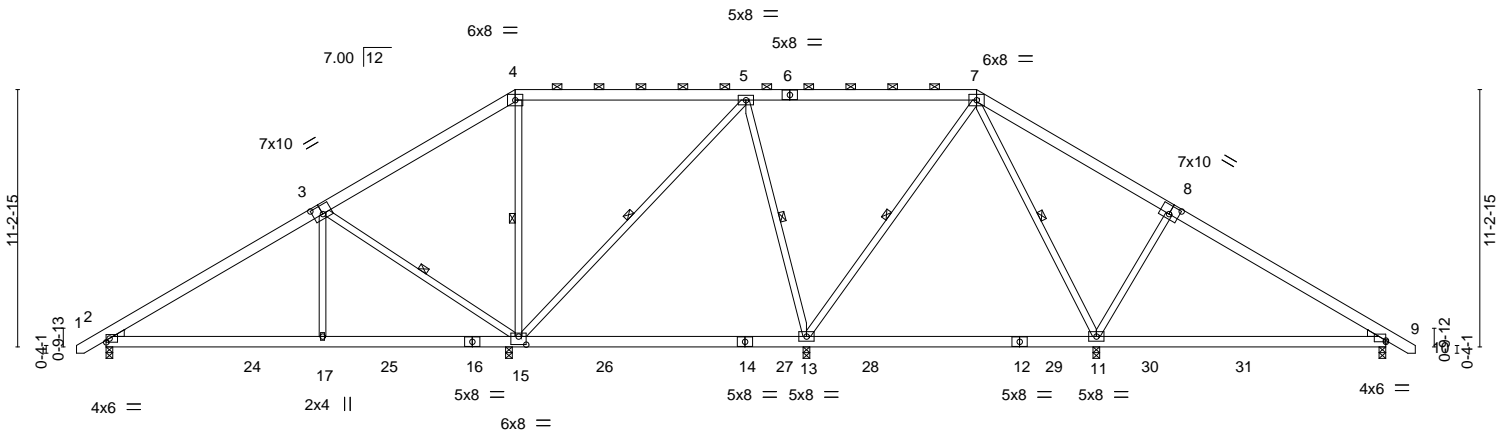


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [8:0-5-0,0-4-8], [9:0-0-0,0-0-11], [15:0-4-0,0-4-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.19	13-15	>789	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.30	13-15	>506		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.02	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.11	11-23	>999		
								Weight: 404 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 4-7.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-15,7-13: 2x4 SP No.2	WEBS 1 Row at midpt 3-15, 4-15, 5-15, 5-13, 7-13, 7-11
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=494(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-367(LC 12), 15=-651(LC 12), 13=-442(LC 9), 11=-501(LC 13), 9=-377(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=780(LC 19), 15=1433(LC 2), 13=1128(LC 26), 11=1078(LC 20), 9=721(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-884/454, 3-4=-206/345, 4-5=-247/349, 5-7=-382/441, 7-8=-533/429, 8-9=-605/370
 BOT CHORD 2-17=-386/903, 15-17=-384/909, 13-15=-217/301, 11-13=-99/325, 9-11=-87/418
 WEBS 3-17=0/358, 3-15=-1103/711, 4-15=-541/399, 5-15=-311/295, 5-13=-487/554, 7-13=-324/207, 8-11=-833/696

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 2, 651 lb uplift at joint 15, 442 lb uplift at joint 13, 501 lb uplift at joint 11 and 377 lb uplift at joint 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.



August 19, 2020

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142477990
2434707_MASTER	A48	PIGGYBACK BASE	6	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:09 2020 Page 1
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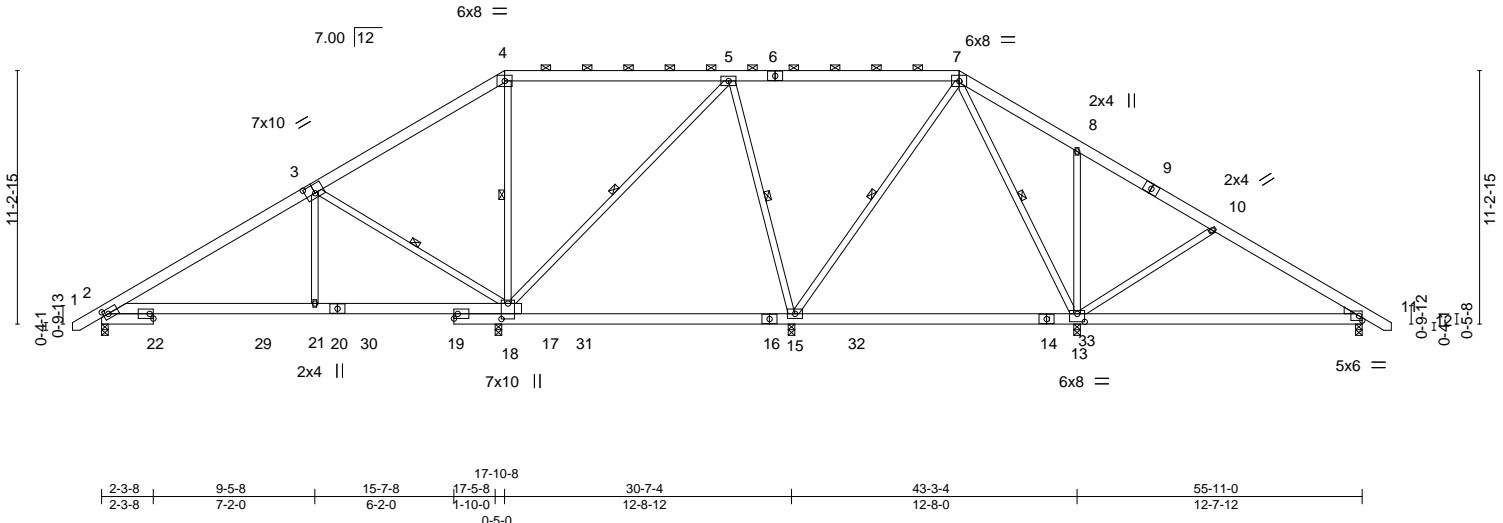


Plate Offsets (X,Y)--	[2:0-2-10,0-2-8], [3:0-5-0,0-4-8], [13:0-4-0,0-4-4], [18:0-8-4,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.22	13-15	>698	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.28	13-15	>531		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	-0.02	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.09	21-23	>999		
								Weight: 425 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 7-15,5-18: 2x4 SP No.2

WEDGE
 Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (6-0-0 max.): 4-7.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 3-18, 5-15, 7-13, 4-18, 7-15, 5-18

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=495(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-291(LC 12), 18=-767(LC 12),
 15=-469(LC 9), 11=-270(LC 13), 13=-663(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=673(LC 19), 18=1557(LC 19),
 15=1056(LC 26), 11=562(LC 20), 13=1196(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-704/312, 3-4=-199/469, 4-5=-66/319, 5-7=-234/368, 7-8=-310/328,
 10-11=-497/249
 BOT CHORD 2-21=-248/765, 18-21=-252/772, 15-18=-322/358, 13-15=-241/365, 11-13=-34/387
 WEBS 3-21=0/350, 3-18=-1128/716, 5-15=-477/530, 4-18=-630/454, 8-13=-506/469,
 7-15=-307/168, 10-13=-662/510, 5-18=-385/333

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 2, 767 lb uplift at joint 18, 469 lb uplift at joint 15, 270 lb uplift at joint 11 and 663 lb uplift at joint 13.
 - 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.



August 19, 2020

Job 2434707_MASTER	Truss A49	Truss Type PIGGYBACK BASE	Qty 9	Ply 1	H&H/Calabash/ Job Reference (optional)	142477991
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:10 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-Jy6SNPXQbUxI5tYyb?RkMEYX2v8wct16f92gA5ymZzt



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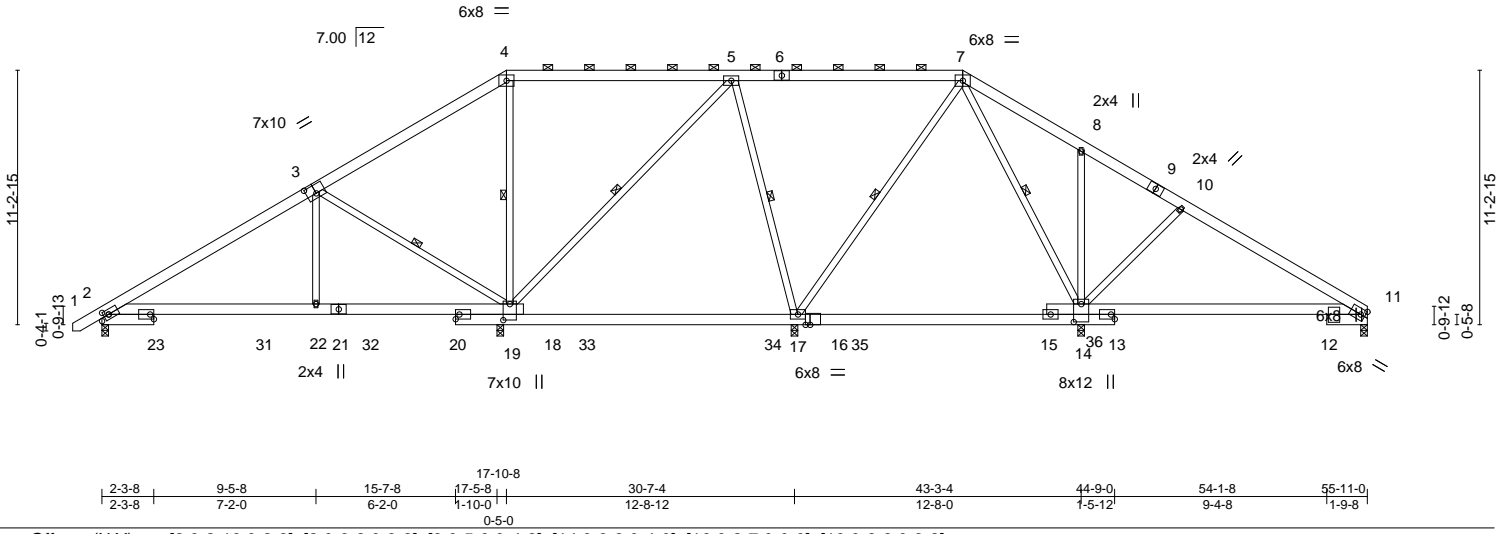


Plate Offsets (X,Y)--	[2:0-2-10,0-2-8], [2:0-3-8,0-3-8], [3:0-5-0,0-4-8], [14:0-9-8,0-4-0], [16:0-2-7,0-0-0], [19:0-8-8,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.19 14-17	>807	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.23 17-19	>665	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	-0.02 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.09 22-24	>999	240	Weight: 428 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 4-7.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
7-17,5-19: 2x4 SP No.2	WEBS 1 Row at midpt 3-19, 5-17, 7-14, 4-19, 7-17, 5-19

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=483(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-289(LC 12), 11=-214(LC 13), 19=-775(LC 12), 17=-479(LC 9), 14=-660(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=692(LC 19), 11=443(LC 20), 19=1576(LC 19), 17=964(LC 26), 14=1282(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-725/283, 3-4=-194/431, 4-5=-53/277, 5-7=-153/353, 7-8=-135/281, 10-11=-365/179
 BOT CHORD 2-22=-268/782, 19-22=-273/788, 17-19=-362/350, 14-17=-311/376, 11-14=-26/277
 WEBS 3-22=0/343, 3-19=-1127/719, 5-17=-521/524, 7-14=-391/217, 4-19=-644/454, 8-14=-336/313, 7-17=-283/173, 5-19=-392/336, 10-14=-671/559

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x8 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 289 lb uplift at joint 2, 214 lb uplift at joint 11, 775 lb uplift at joint 19, 479 lb uplift at joint 17 and 660 lb uplift at joint 14.
 - 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.

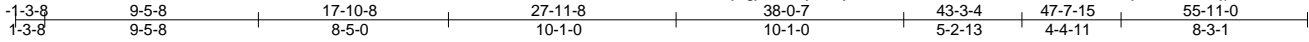


August 19,2020

Job 2434707_MASTER	Truss A50	Truss Type PIGGYBACK BASE	Qty 3	Ply 1	H&H/Calabash/ Job Reference (optional)	142477992
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:12 2020 Page 1
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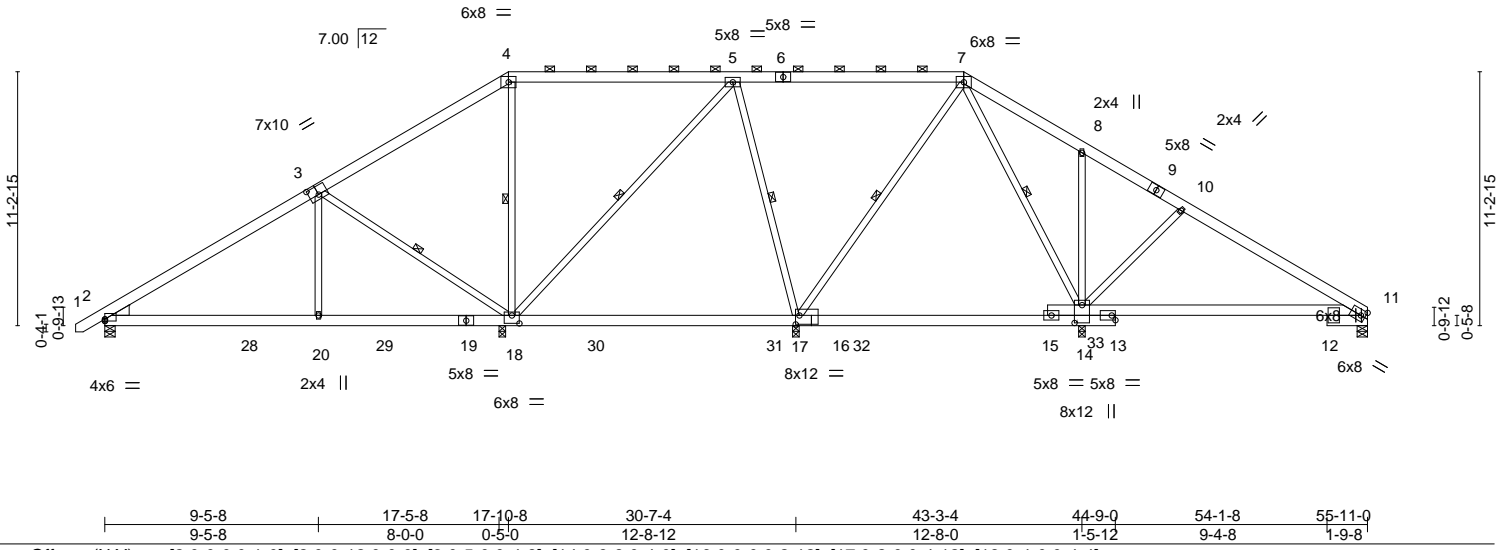


Plate Offsets (X,Y)--	[2:0-0,0-0,1-0], [2:0-0-12,0-0-0], [3:0-5-0,0-4-8], [14:0-9-8,0-4-0], [16:0-0-0,0-2-12], [17:0-2-0,0-4-12], [18:0-4-0,0-4-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(LL) -0.19 17-18 >801 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Vert(CT) -0.31 17-18 >492 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) 0.02 11 n/a n/a		
			Wind(LL) 0.08 20-23 >999 240	Weight: 421 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 4-7.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
7-17,5-18: 2x4 SP No.2	WEBS 1 Row at midpt 3-18, 5-17, 7-14, 4-18, 7-17, 5-18
WEDGE	
Left: 2x6 SP No.2	

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-5-8, 11=0-5-8.
 (lb) - Max Horz 2=484(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-363(LC 12), 11=-237(LC 13),
 18=-652(LC 12), 17=-468(LC 9), 14=-636(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=786(LC 19), 11=454(LC
 20), 18=1442(LC 25), 17=1045(LC 26), 14=1225(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-814/416, 3-4=-135/319, 4-5=-184/313, 5-7=-238/386, 7-8=-160/309,
 10-11=-387/243
 BOT CHORD 2-20=-403/896, 18-20=-402/902, 17-18=-281/288, 14-17=-244/366, 11-14=-59/284
 WEBS 3-20=0/355, 3-18=-1108/714, 5-17=-555/532, 7-14=-366/209, 4-18=-565/393,
 8-14=-339/315, 7-17=-259/136, 5-18=-306/278, 10-14=-664/555

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 2, 237 lb uplift at joint 11, 652 lb uplift at joint 18, 468 lb uplift at joint 17 and 636 lb uplift at joint 14.
 - 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.



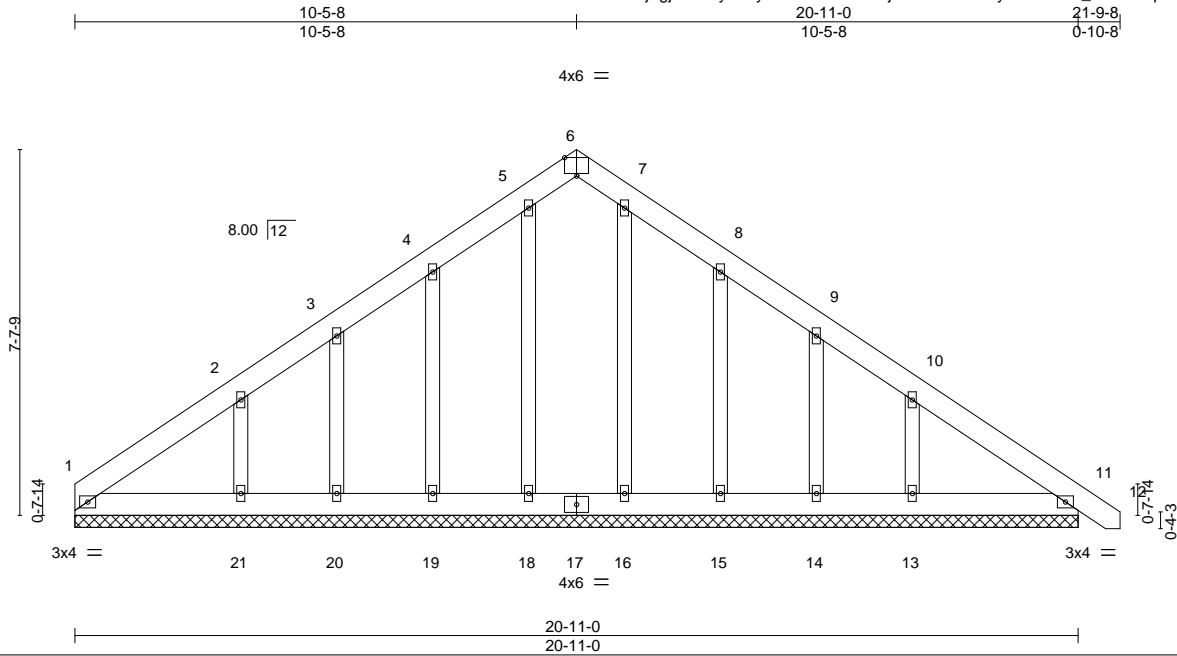
August 19, 2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2434707_MASTER	Truss B01	Truss Type GABLE	Qty 15	Ply 1	H&H/Calabash/ Job Reference (optional)	142477993
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:13 2020 Page 1
ID:jtGj18SwfyF8hyT9h0Yt9kzZiYQ-jXoa0RaJuPKtyLHXG7?R_sAB26JlpL7YL7GKnQymZzq



Scale: 1/4"=1'

Plate Offsets (X,Y)--	{6:0-3-0,Edge}				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) 0.00 11 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) 0.00 12 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 159 lb	FT = 20%

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

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

REACTIONS. All bearings 20-11-0.
(lb) - Max Horz 1=-326(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 11, 18, 16 except 19=-169(LC 12), 20=-115(LC 12), 21=-276(LC 12), 15=-168(LC 13), 14=-118(LC 13), 13=-264(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 18, 19, 20, 16, 15, 14 except 6=302(LC 13), 21=344(LC 19), 13=331(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-265/264, 3-4=-161/252, 4-5=-256/319, 5-6=-293/360, 6-7=-293/360, 7-8=-256/305
WEBS 2-21=-329/297, 10-13=-326/281

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 11, 18, 16 except (jt=lb) 19=169, 20=115, 21=276, 15=168, 14=118, 13=264.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	I42477994
2434707_MASTER	B02	COMMON	63	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:14 2020 Page 1
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-BjMzDnaxfjSjZVskqrWgW4jF?WWW4YmUian0tJymZzp



7x14 MT20HS ||

Scale = 1:49.6

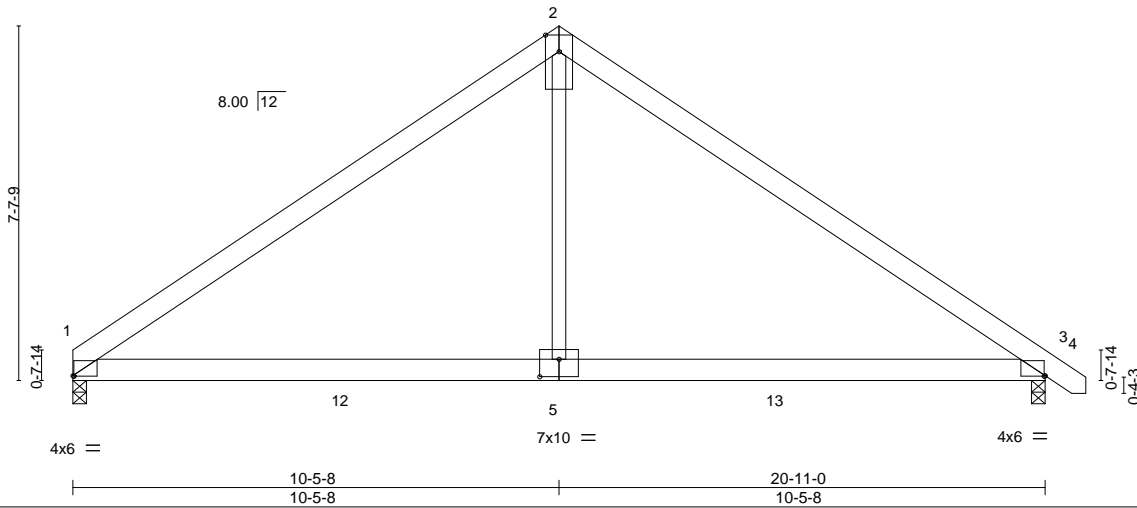


Plate Offsets (X,Y)--	[1:0-0-4,0-0-2], [3:0-0-4,0-0-2], [5:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	0.17	5-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.17	5-8	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						Weight: 121 lb	FT = 20%

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

REACTIONS. (size) 1=0-3-8, 3=0-3-8
 Max Horz 1=-324(LC 10)
 Max Uplift 1=-360(LC 12), 3=-395(LC 13)
 Max Grav 1=941(LC 19), 3=986(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1169/542, 2-3=-1170/542
 BOT CHORD 1-5=-217/966, 3-5=-217/966
 WEBS 2-5=0/573

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=360, 3=395.
 - 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.

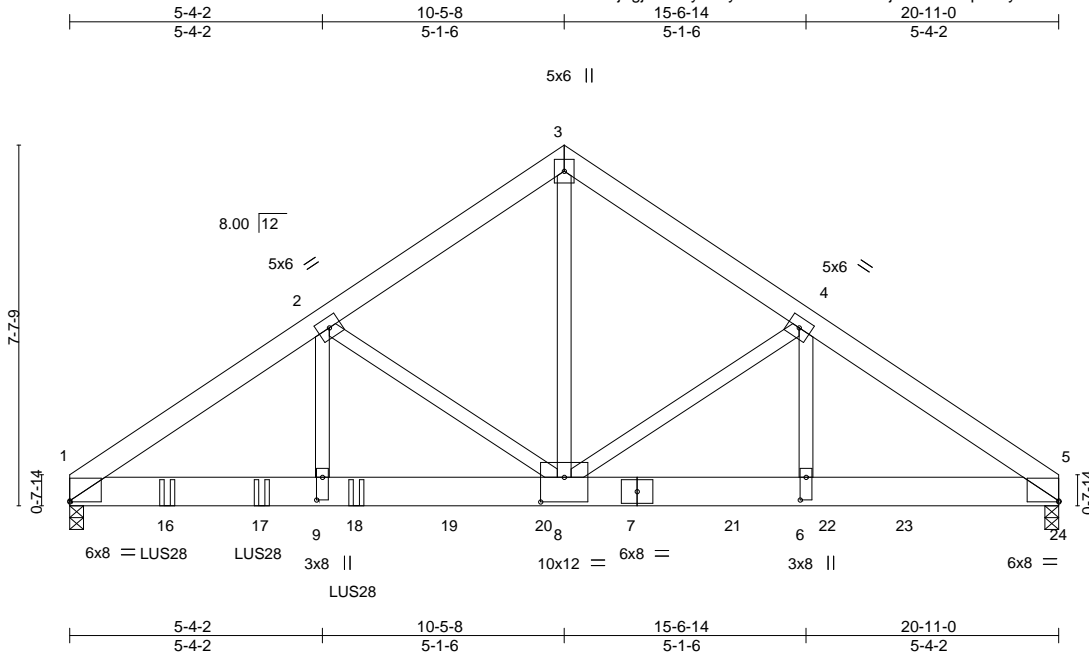


August 19,2020

Job 2434707_MASTER	Truss B03	Truss Type COMMON GIRDER	Qty 21	Ply 3	H&H/Calabash/ Job Reference (optional)	142477995
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:16 2020 Page 1
ID:jTgj18SwfyF8hyT9h0Y19kzZiYQ-86TJeScBAKIRpo06yGY9cVofcKF60Yc?15V_OlymZzn



Scale = 1:48.7

Plate Offsets (X,Y)--	[1:0-0-0,0-0-4], [5:Edge,0-0-4], [6:0-5-12,0-1-8], [8:0-6-0,0-6-4], [9:0-5-12,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.08	6-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.15	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.04	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.11	6-8	>999		
								Weight: 482 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.	(size)	1=0-3-8, 5=0-3-8 (req. 0-3-13)	SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.
	Max Horz	1=310(LC 7)	
	Max Uplift	1=-2918(LC 8), 5=-3926(LC 9)	
	Max Grav	1=6548(LC 2), 5=9624(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-10606/4293, 2-3=-8702/3285, 3-4=-8711/3285, 4-5=-13067/5221
BOT CHORD	1-9=-3644/8745, 8-9=-3644/8745, 6-8=-4226/10861, 5-6=-4226/10861
WEBS	3-8=-3368/9249, 4-8=-4646/2340, 4-6=-2137/4798, 2-8=-2065/1378, 2-9=-1081/2017

- NOTES-** (12)
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=2918, 5=3926.
 - Use Simpson Strong-Tie LUS28 (6-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 6-0-12 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2150 lb down and 361 lb up at 8-0-12, 2150 lb down and 361 lb up at 10-0-12, 1767 lb down and 796 lb up at 12-0-12, 1767 lb down and 796 lb up at 14-0-12, 1767 lb down and 796 lb up at 16-0-12, and 1767 lb down and 796 lb up at 17-8-4, and 1767 lb down and 796 lb up at 19-9-12 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.



August 19, 2020

LOAD CASE(S) Standard

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

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	I42477995
2434707_MASTER	B03	COMMON GIRDER	21	3	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:16 2020 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-1411 16=-586(B) 17=-549(B) 18=-549(B) 19=-1857 20=-1857 21=-1411 22=-1411 23=-1411 24=-1411

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Job 2434707_MASTER	Truss B11	Truss Type Common Supported Gable	Qty 5	Ply 1	H&H/Calabash/ Job Reference (optional)	142477997
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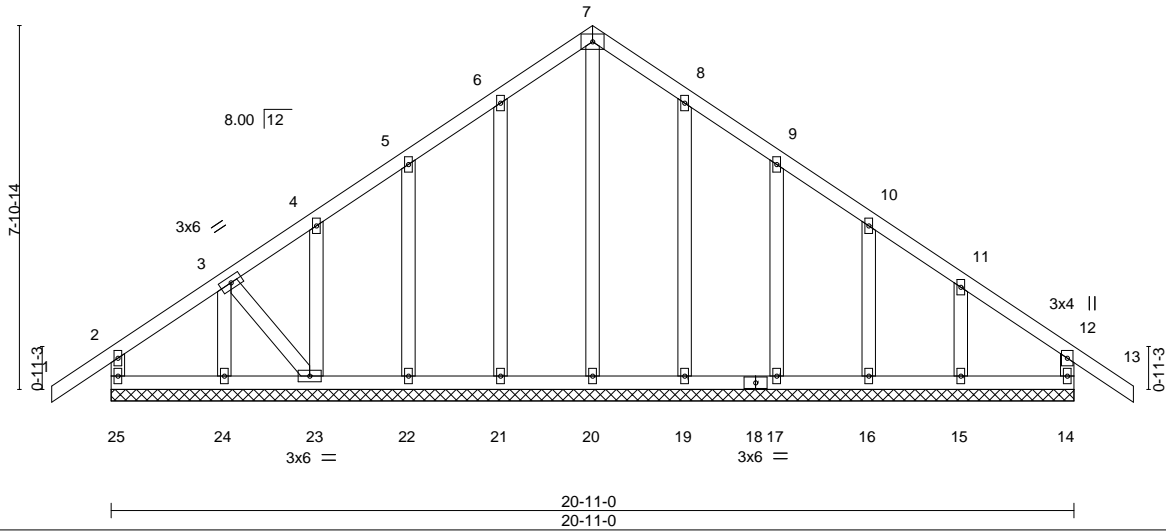
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:18 2020 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-4UbT38dRixy9269V3hadhwu0g70aUYWHVP_5TeymZl



4x6 =

Scale = 1:50.1



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 0.21	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.01	13	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.01	14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 138 lb	FT = 20%

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

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

REACTIONS. All bearings 20-11-0.
(lb) - Max Horz 25=-394(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14, 20 except 25=-113(LC 13), 21=-150(LC 12), 22=-161(LC 12), 23=-340(LC 12), 24=-173(LC 8), 19=-144(LC 13), 17=-164(LC 13), 16=-129(LC 13), 15=-228(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 25, 14, 21, 22, 19, 17, 16, 15 except 20=339(LC 13), 23=339(LC 10), 24=306(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-215/264, 5-6=-257/331, 6-7=-340/395, 7-8=-340/395, 8-9=-257/296
BOT CHORD 24-25=-285/306, 23-24=-285/306
WEBS 7-20=-316/214, 3-24=-273/217, 11-15=-269/223, 3-23=-276/313

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 20 except (jt=lb) 25=113, 21=150, 22=161, 23=340, 24=173, 19=144, 17=164, 16=129, 15=228.



August 19, 2020

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	I42477998
2434707_MASTER	B12	COMMON	24	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:19 2020 Page 1

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5x8 ||

Scale = 1:48.5

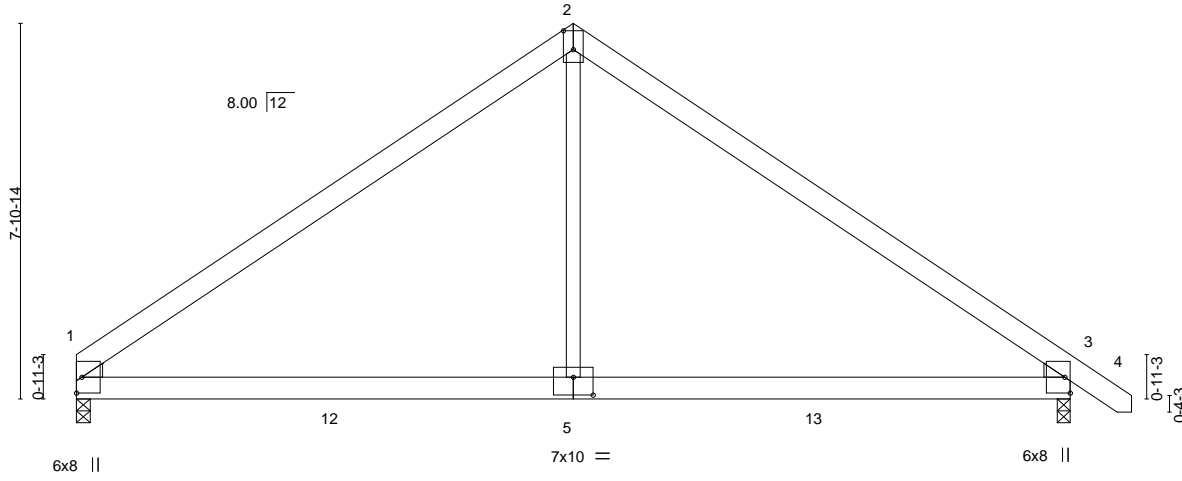


Plate Offsets (X,Y)--	[1:0-0-15,0-4-14], [1:0-0-7,0-0-11], [2:0-4-12,0-2-8], [3:0-0-7,0-0-11], [3:0-0-15,0-4-14], [5:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	0.16	5-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.15	5-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	-0.03	1	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS							
									Weight: 124 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	
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS.	(size) 1=0-3-8, 3=0-3-4
	Max Horz 1=-332(LC 8)
	Max Uplift 1=-357(LC 12), 3=-413(LC 13)
	Max Grav 1=949(LC 19), 3=1022(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1165/532, 2-3=-1168/533
BOT CHORD	1-5=-203/941, 3-5=-203/941
WEBS	2-5=0/571

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=357, 3=413.
 - 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.



August 19,2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2434707_MASTER	Truss B13	Truss Type Common Girder	Qty 8	Ply 3	H&H/Calabash/ Job Reference (optional)	142477999
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:20 2020 Page 1

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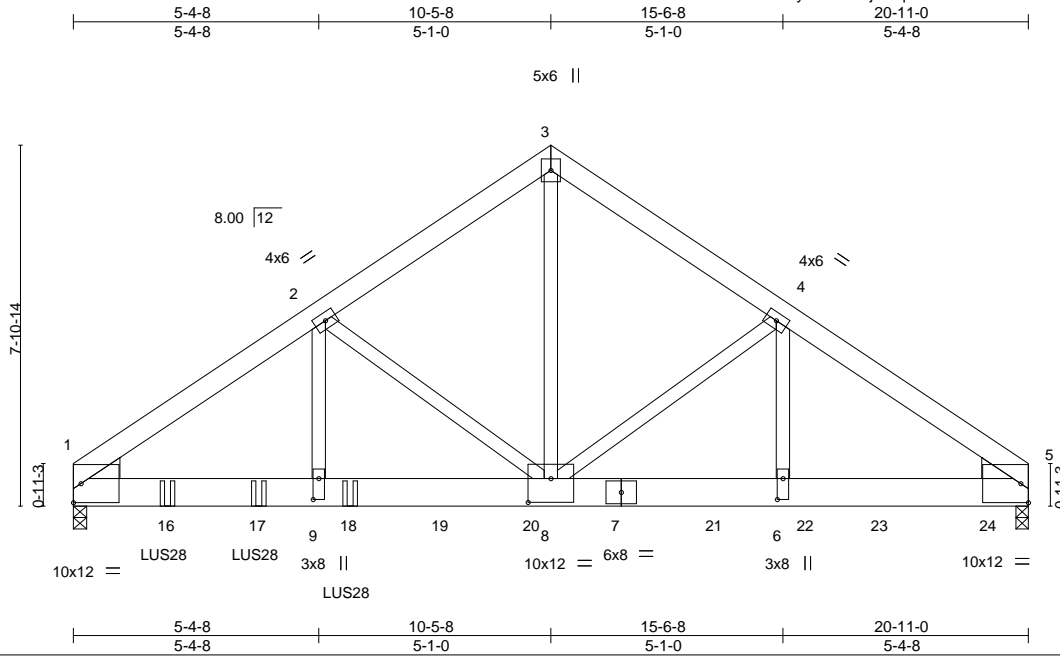


Plate Offsets (X,Y)--	[6:0-5-8,0-1-8], [8:0-6-0,0-6-4], [9:0-5-8,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.09 6-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.74	Vert(CT) -0.16 8-9 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.04 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.10 6-8 >999 240	Weight: 497 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x6 SP No.2, Right: 2x6 SP No.2	

REACTIONS. (size) 1=0-3-8, 5=0-3-4 (req. 0-3-14)
 Max Horz 1=310(LC 7)
 Max Uplift 1=-2918(LC 8), 5=-3920(LC 9)
 Max Grav 1=6688(LC 2), 5=9792(LC 2)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-9989/3958, 2-3=-8579/3173, 3-4=-8579/3171, 4-5=-12146/4751
 BOT CHORD 1-9=-3339/8151, 8-9=-3339/8151, 6-8=-3803/9967, 5-6=-3803/9967
 WEBS 3-8=-3218/9018, 4-8=-3831/1976, 4-6=-1897/4231, 2-8=-1507/1142, 2-9=-925/1622

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=2918, 5=3920.
 - Use Simpson Strong-Tie LUS28 (6-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 6-0-12 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2268 lb down and 373 lb up at 8-0-12, 2268 lb down and 373 lb up at 10-0-12, 1777 lb down and 790 lb up at 12-0-12, 1777 lb down and 790 lb up at 14-0-12, 1777 lb down and 790 lb up at 16-0-12, and 1777 lb down and 790 lb up at 17-8-4, and 1780 lb down and 788 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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LOAD CASE(S) Standard

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	I42477999
2434707_MASTER	B13	Common Girder	8	3	Job Reference (optional)	

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8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:21 2020 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-1373 16=-593(B) 17=-553(B) 18=-553(B) 19=-1938 20=-1938 21=-1373 22=-1373 23=-1373 24=-1376

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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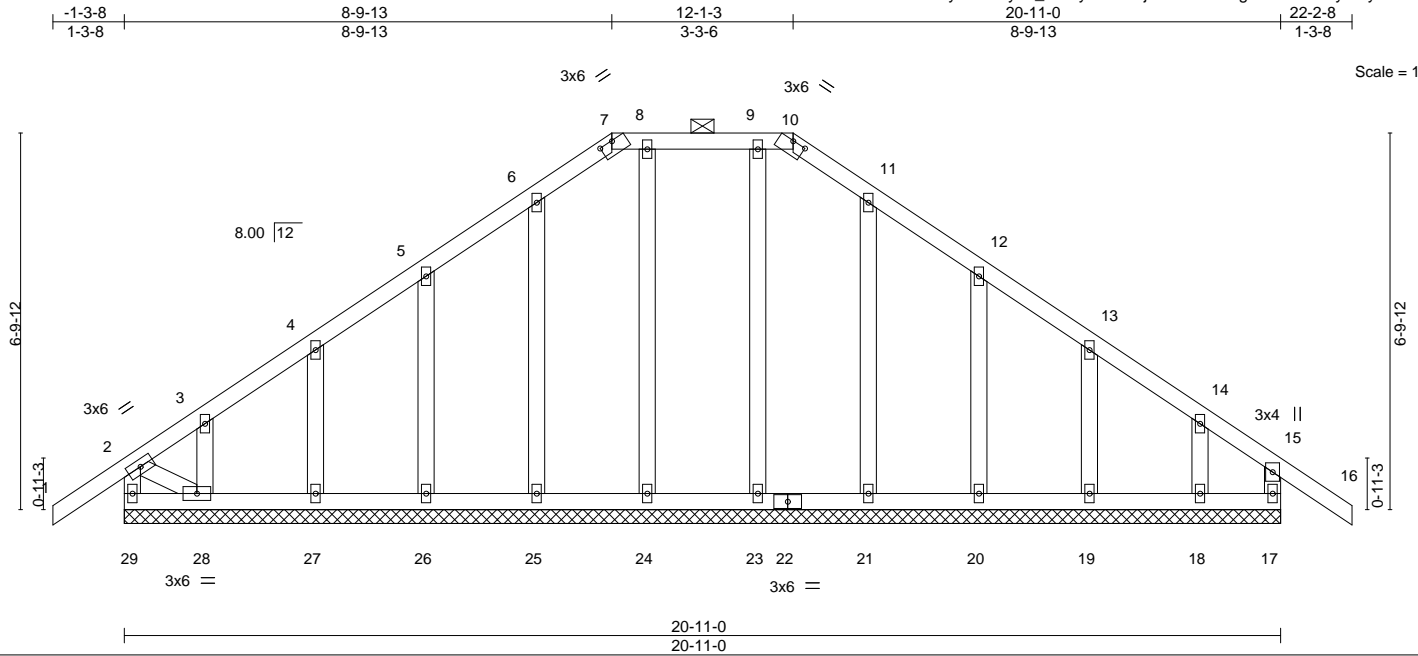
Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478000
2434707_MASTER	B14	GABLE	3	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:u2XELeCnRWP0nPLJeNfnnKyCKHZ-yGr_uWhymASbXjTGIWfZrm2iglNdQQBtP1ylcPymZzh

Job Reference (optional)



Scale = 1:41.7

Plate Offsets (X,Y)--	[7:0-3-0,0-0-2], [10:0-3-0,0-0-2]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.01 16 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.01 16 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.01 17 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 134 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.): 7-10.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	
OTHERS 2-28: 2x4 SP No.3	
2x4 SP No.3	

REACTIONS. All bearings 20-11-0.
 (lb) - Max Horz 29=-347(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 24, 23, 21 except 29=-212(LC 8), 25=-106(LC 12), 26=-164(LC 12), 27=-157(LC 12), 28=-216(LC 12), 20=-172(LC 13), 19=-142(LC 13), 18=-203(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 17, 24, 25, 26, 27, 28, 23, 21, 20, 19, 18 except 29=266(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-29=-251/211, 5-6=-199/250, 6-7=-256/295, 7-8=-238/285, 8-9=-238/285, 9-10=-238/285, 10-11=-256/295
 BOT CHORD 28-29=-298/298

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 24, 23, 21 except (jt=lb) 29=212, 25=106, 26=164, 27=157, 28=216, 20=172, 19=142, 18=203.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

Job 2434707_MASTER	Truss C01	Truss Type GABLE	Qty 20	Ply 1	H&H/Calabash/ Job Reference (optional)	142478001
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8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:23 2020 Page 1
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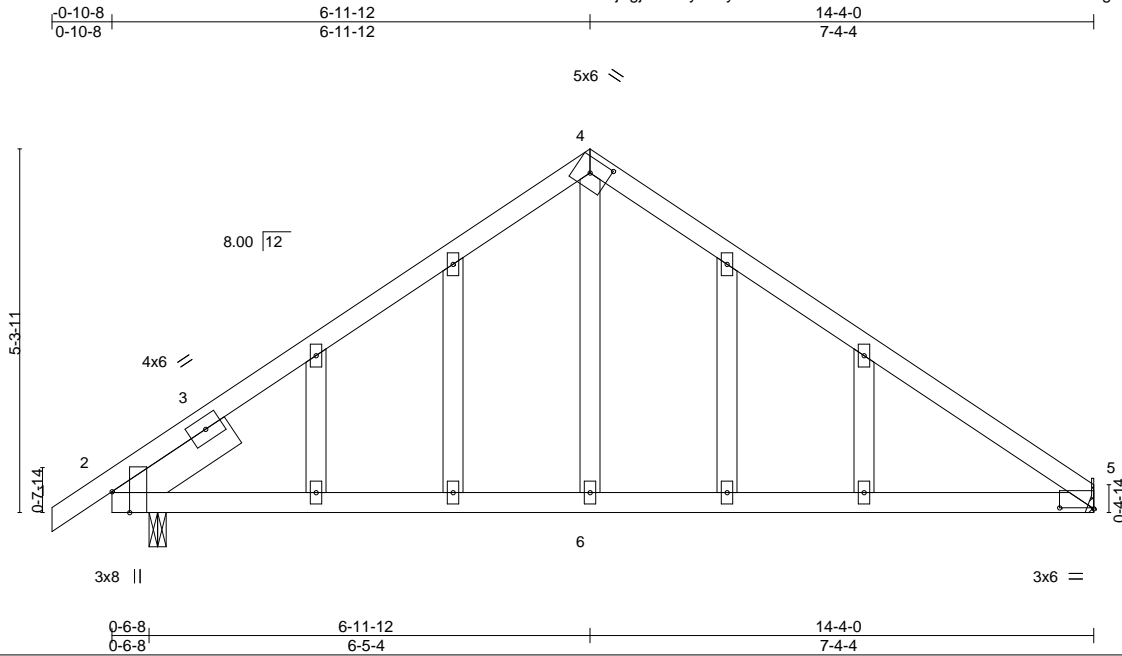


Plate Offsets (X,Y)--	[2:0-3-11,Edge], [4:0-3-4,0-2-8], [5:0-6-0,0-0-3]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	0.30	6-17	>569	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.19	6-17	>915		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.02	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS					Weight: 77 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-12	

REACTIONS. (size) 5=Mechanical, 2=0-3-0
 Max Horz 2=230(LC 11)
 Max Uplift 5=-240(LC 13), 2=-297(LC 12)
 Max Grav 5=547(LC 1), 2=652(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-614/979, 4-5=-629/937
 BOT CHORD 2-6=-610/434, 5-6=-610/434
 WEBS 4-6=-633/298

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left 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
 - 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.
 - 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) 5=240, 2=297.
 - 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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Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478002
2434707_MASTER	C02	Common	66	1		

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8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:24 2020 Page 1
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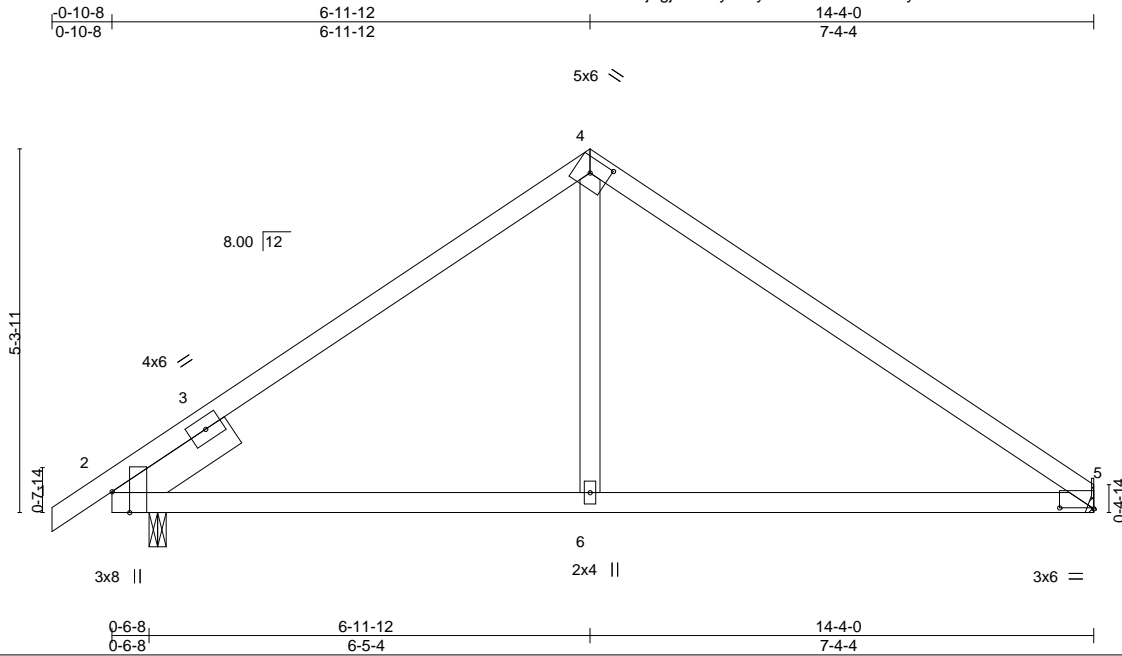


Plate Offsets (X,Y)--	[2:0-3-11,Edge], [4:0-3-4,0-2-8], [5:0-6-0,0-0-3]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	0.30	6-9	>569	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.19	6-9	>915	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.02	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						Weight: 61 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-12	

REACTIONS. (size) 5=Mechanical, 2=0-3-0
 Max Horz 2=230(LC 11)
 Max Uplift 5=-240(LC 13), 2=-297(LC 12)
 Max Grav 5=547(LC 1), 2=652(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-614/979, 4-5=-629/937
 BOT CHORD 2-6=-610/434, 5-6=-610/434
 WEBS 4-6=-633/298

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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; cantilever left exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 5=240, 2=297.
 - 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.



August 19,2020

Job 2434707_MASTER	Truss C03	Truss Type GABLE	Qty 9	Ply 1	H&H/Calabash/ Job Reference (optional)	142478003
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8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:25 2020 Page 1

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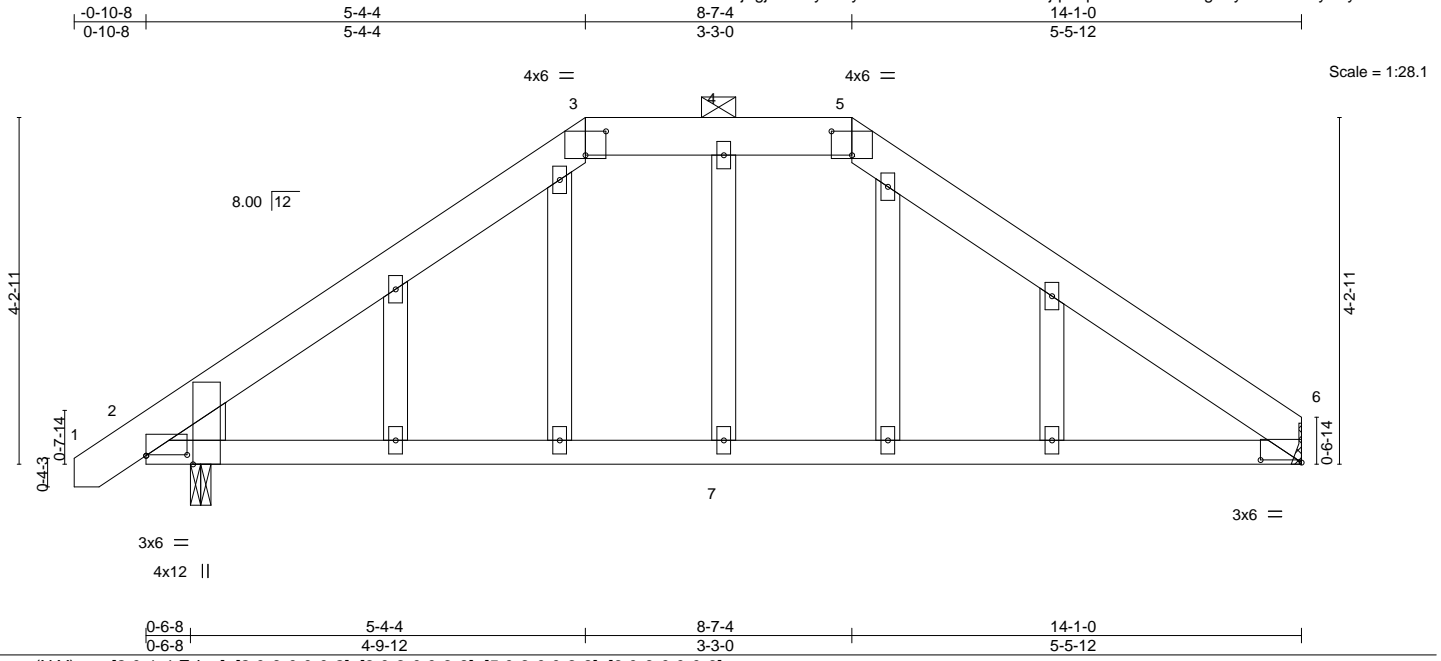


Plate Offsets (X, Y)--	[2:0-1-4,Edge], [2:0-6-0,0-0-2], [3:0-3-0,0-3-8], [5:0-3-0,0-3-8], [6:0-6-0,0-0-6]
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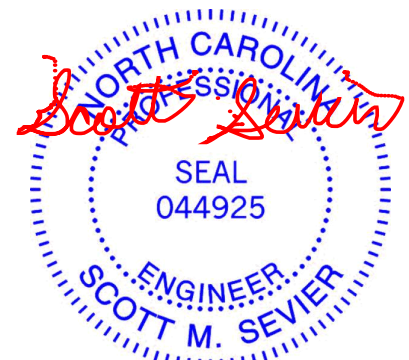
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	0.15	7-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.09	7-18	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.01	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS					Weight: 85 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 3-5.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	
Left: 2x6 SP No.2	

REACTIONS. (size) 6=Mechanical, 2=0-3-0
 Max Horz 2=177(LC 11)
 Max Uplift 6=-312(LC 8), 2=-346(LC 9)
 Max Grav 6=538(LC 1), 2=632(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-635/1003, 3-4=-539/943, 4-5=-539/943, 5-6=-616/970
 BOT CHORD 2-7=-693/463, 6-7=-693/463
 WEBS 4-7=-520/260

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) 6=312, 2=346.
 - 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.



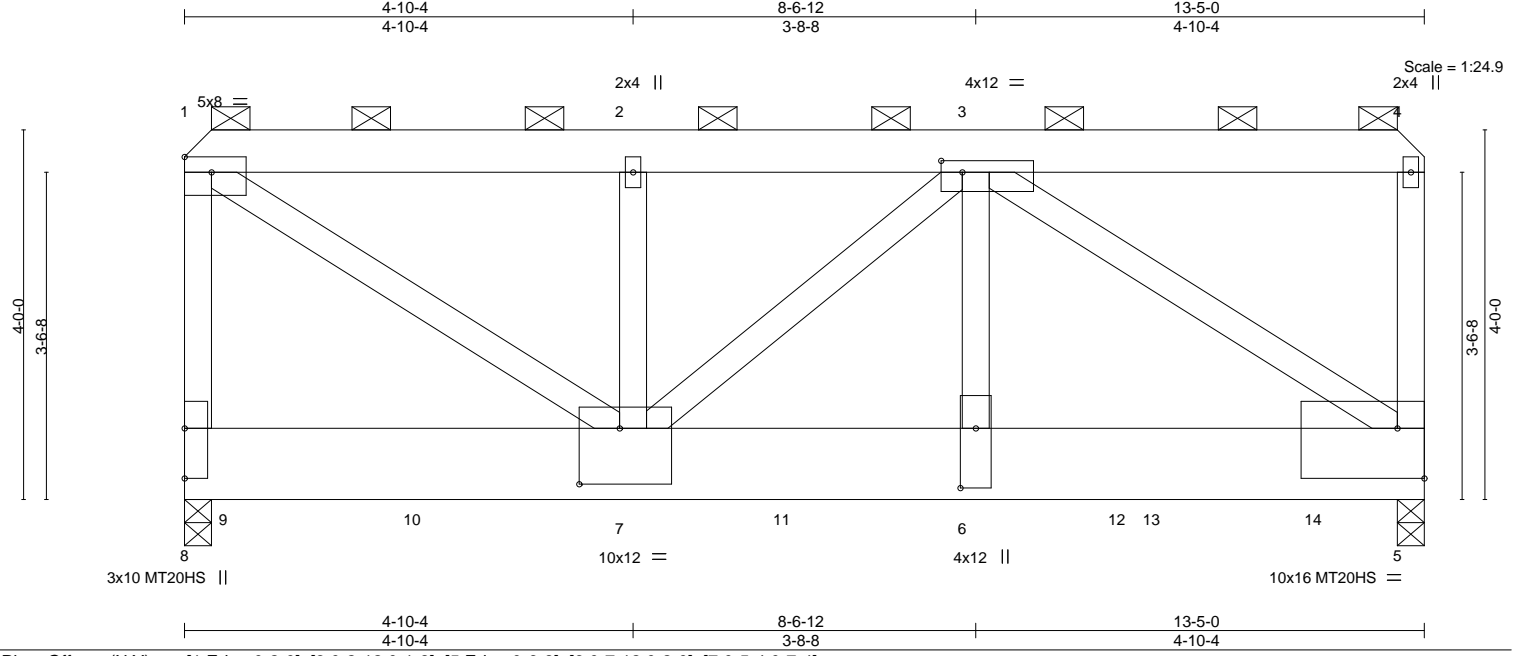
August 19, 2020

Job 2434707_MASTER	Truss FG01	Truss Type FLAT GIRDER	Qty 9	Ply 2	H&H/Calabash/ Job Reference (optional)	142478004
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:26 2020 Page 1

ID: jTgj18SwfyF8hyT9h0Yf9kzZiYQ-r14VktkTqPy0?Ln1XMjV0cDLmMexM0_TKfwWIAymZzd



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.06 6-7 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.96	Vert(CT) -0.11 6-7 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 6-7 >999 240	Weight: 245 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.2 *Except*
1-7,3-5: 2x4 SP No.1

BRACING-
TOP CHORD 2-0-0 oc purlins (5-10-11 max.); 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8 (req. 0-4-5), 5=0-3-8 (req. 0-4-10)
Max Horz 8=220(LC 4)
Max Uplift 8=3177(LC 4), 5=3192(LC 5)
Max Grav 8=7316(LC 2), 5=7884(LC 2)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-5036/2155, 1-2=-6844/2821, 2-3=-6844/2821
BOT CHORD 6-7=-2988/7230, 5-6=-2988/7230
WEBS 1-7=-3447/8336, 2-7=-200/292, 3-7=-523/186, 3-6=-1922/5311, 3-5=-8796/3572

- NOTES-** (12)
- 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: 2x10 - 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=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - WARNING:** Required bearing size at joint(s) 8, 5 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=3177, 5=3192.
 - 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) 1167 lb down and 383 lb up at 0-6-12, 492 lb down and 365 lb up at 0-6-12, 1161 lb down and 389 lb up at 2-6-12, 486 lb down and 370 lb up at 2-6-12, 1805 lb down and 493 lb up at 4-6-12, 486 lb down and 370 lb up at 4-6-12, 1805 lb down and 493 lb up at 6-6-12, 486 lb down and 370 lb up at 6-6-12, 1805 lb down and 493 lb up at 8-6-12, 486 lb down and 370 lb up at 8-6-12, 1805 lb down and 493 lb up at 10-6-12, 486 lb down and 370 lb up at 10-6-12, and 1805 lb down and 493 lb up at 12-6-12 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 application is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Job 2434707_MASTER	Truss FG01	Truss Type FLAT GIRDER	Qty 9	Ply 2	H&H/Calabash/ Job Reference (optional)	I42478004
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:26 2020 Page 2
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-r14VktkTqPy0?Ln1XMjV0cDLmMexM0_TKfwWIAymZzd

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-1931(F=-1549, B=-383) 6=-1931(F=-1549, B=-383) 9=-1431(F=-1043, B=-389) 10=-1420(F=-1037, B=-383) 11=-1931(F=-1549, B=-383) 12=-1549(F=13=-383(B) 14=-1935(F=-1549, B=-386)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job 2434707_MASTER	Truss FG02	Truss Type FLAT GIRDER	Qty 8	Ply 2	H&H/Calabash/ Job Reference (optional)	142478005
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:28 2020 Page 1

ID: jTgj18SwfyF8hyT9h0Yt9kzZiYQ-nPCF9ZijM0ckFewQfzmz51lhJ9Lqqv3moyPdp3ymZzb

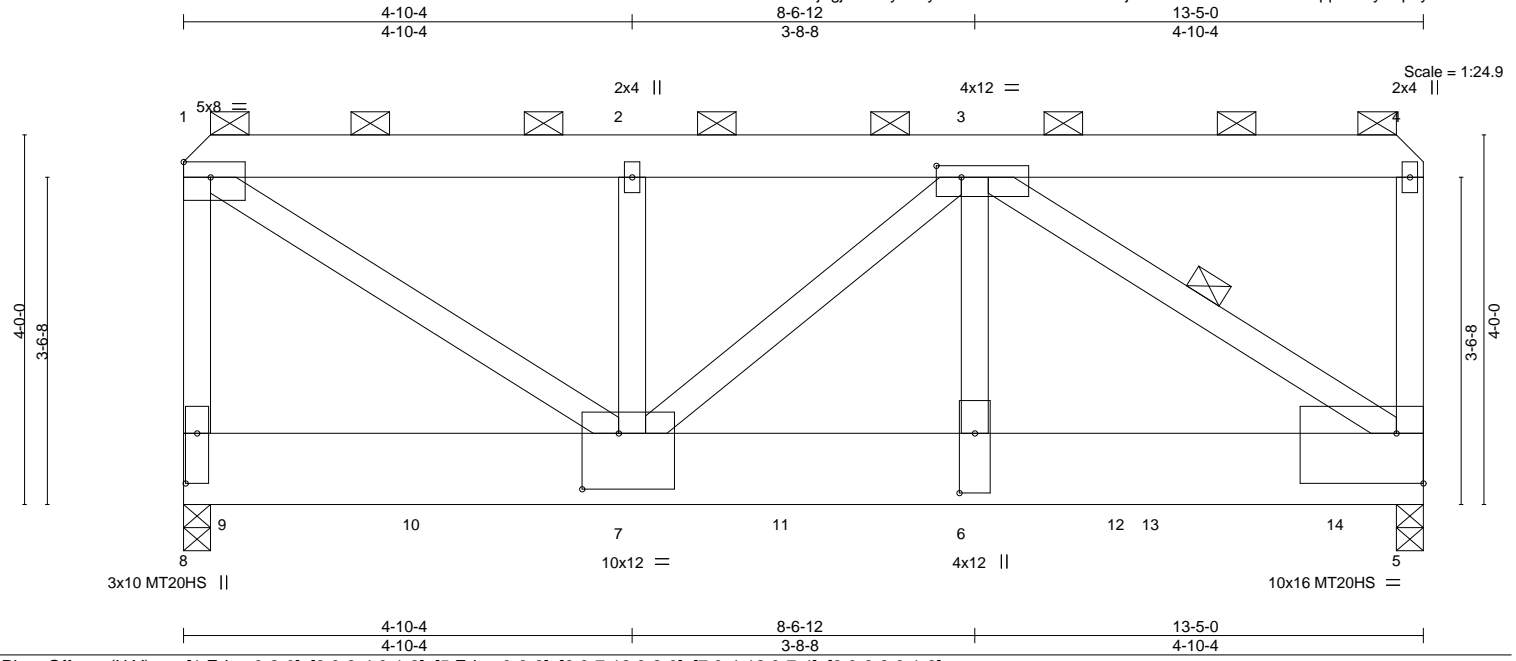


Plate Offsets (X, Y)--	[1:Edge,0-2-0], [3:0-3-4,0-1-8], [5:Edge,0-6-8], [6:0-7-12,0-2-0], [7:0-4-12,0-7-4], [8:0-6-8,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.06	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.12	6-7	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.98	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.08	6-7	>999		
								Weight: 245 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except end verticals.
BOT CHORD 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-5

REACTIONS. (size) 8=0-3-8 (req. 0-4-3), 5=0-3-8 (req. 0-4-9)
 Max Horz 8=220(LC 5)
 Max Uplift 8=-3167(LC 4), 5=-3221(LC 5)
 Max Grav 8=7100(LC 2), 5=7711(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-8=-4843/2136, 1-2=-6574/2795, 2-3=-6574/2795
 BOT CHORD 6-7=-2935/6871, 5-6=-2935/6871
 WEBS 1-7=-3412/7999, 2-7=-194/294, 3-7=-402/151, 3-6=-1860/4972, 3-5=-8353/3505

- NOTES-** (12)
- 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: 2x10 - 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=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - WARNING: Required bearing size at joint(s) 8, 5 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=3167, 5=3221.
 - 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) 1156 lb down and 379 lb up at 0-6-12, 470 lb down and 367 lb up at 0-6-12, 1151 lb down and 385 lb up at 2-6-12, 464 lb down and 373 lb up at 2-6-12, 1760 lb down and 495 lb up at 4-6-12, 464 lb down and 373 lb up at 4-6-12, 1760 lb down and 495 lb up at 6-6-12, 464 lb down and 373 lb up at 6-6-12, 1760 lb down and 495 lb up at 8-6-12, 464 lb down and 373 lb up at 8-6-12, 1760 lb down and 495 lb up at 10-2-4, 464 lb down and 373 lb up at 10-6-12, and 1763 lb down and 492 lb up at 12-6-12, and 467 lb down and 370 lb up at 12-6-12 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.



August 19, 2020

Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 2434707_MASTER	Truss FG02	Truss Type FLAT GIRDER	Qty 8	Ply 2	H&H/Calabash/ Job Reference (optional)	I42478005
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:28 2020 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-1898(F=-1547, B=-352) 6=-1898(F=-1547, B=-352) 9=-1402(F=-1045, B=-357) 10=-1390(F=-1039, B=-352) 11=-1898(F=-1547, B=-352) 12=-1547(F) 13=-352(B) 14=-1904(F=-1550, B=-355)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job 2434707_MASTER	Truss FG03	Truss Type FLAT GIRDER	Qty 12	Ply 2	H&H/Calabash/ Job Reference (optional)	142478006
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:28 2020 Page 1

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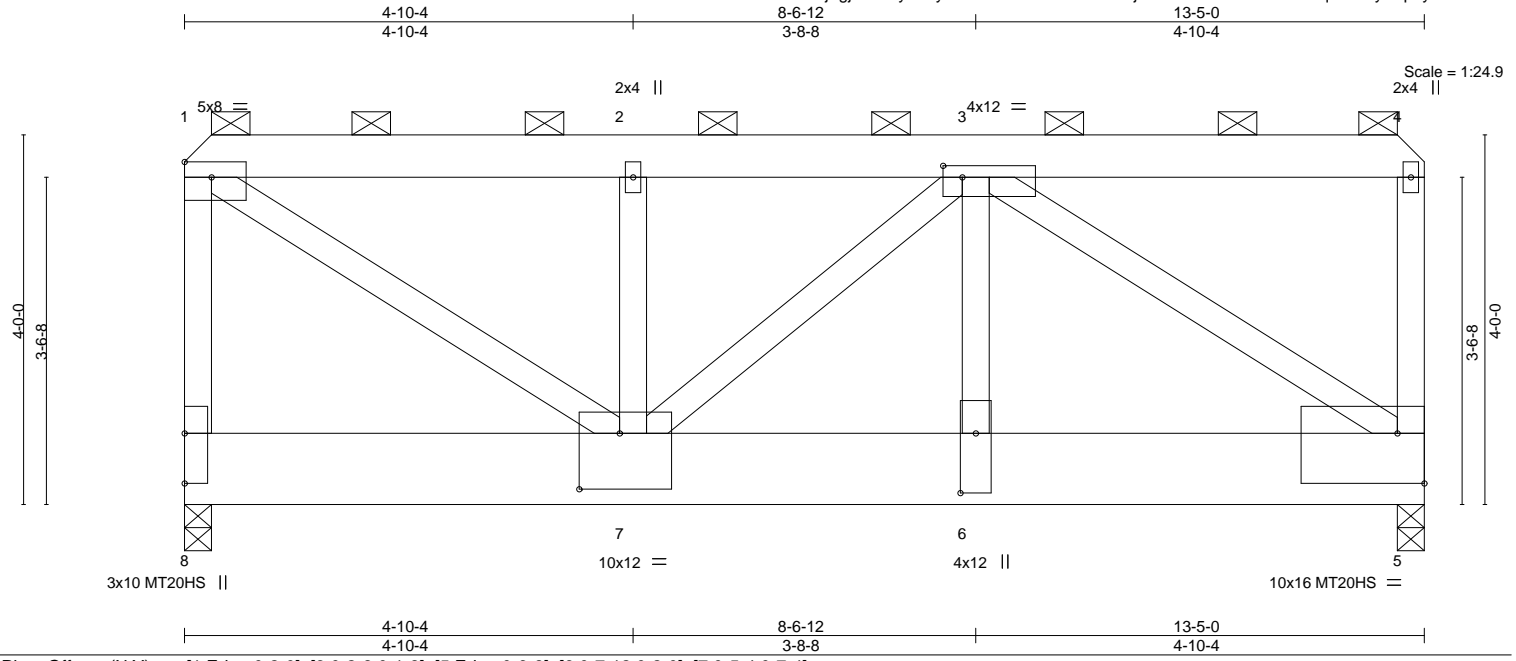


Plate Offsets (X, Y)--	[1:Edge,0-2-0], [3:0-2-8,0-1-8], [5:Edge,0-6-8], [6:0-7-12,0-2-0], [7:0-5-4,0-7-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(LL) -0.00 7 >999 360	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.07	Vert(CT) -0.01 7 >999 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Horz(CT) -0.00 5 n/a n/a		
			Wind(LL) 0.01 7 >999 240	Weight: 245 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.2 *Except*
1-7,3-5: 2x4 SP No.1

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Horz 8=-220(LC 10)
Max Uplift 8=-326(LC 8), 5=-326(LC 9)
Max Grav 8=525(LC 1), 5=525(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-459/622, 1-2=-472/577, 2-3=-472/577
BOT CHORD 7-8=-258/260, 6-7=-680/511, 5-6=-680/511
WEBS 1-7=-705/567, 2-7=-262/462, 3-5=-586/738

- NOTES-** (11)
- 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: 2x10 - 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 7-16; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=326, 5=326.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



August 19, 2020

Job 2434707_MASTER	Truss FG04	Truss Type FLAT GIRDER	Qty 12	Ply 2	H&H/Calabash/ Job Reference (optional)	142478007
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:30 2020 Page 1
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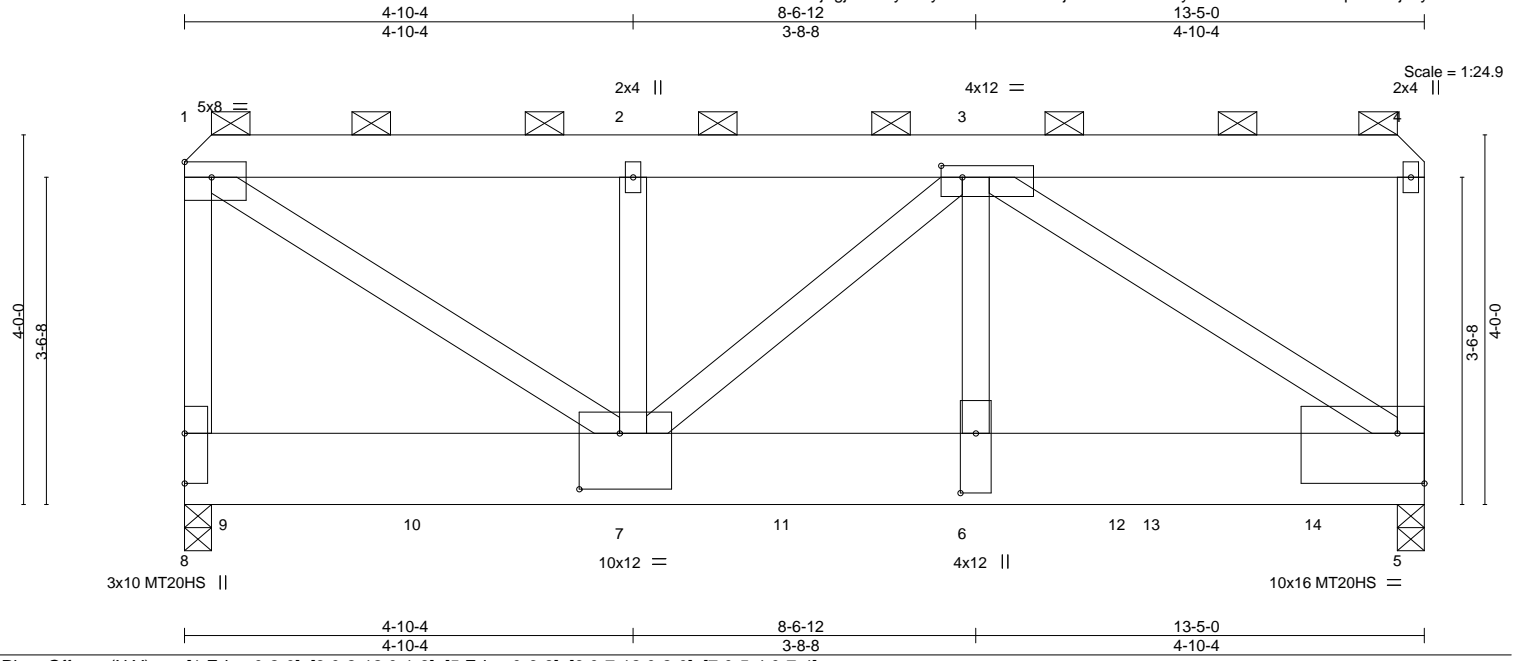


Plate Offsets (X,Y)--	[1:Edge,0-2-0], [3:0-2-12,0-1-8], [5:Edge,0-6-8], [6:0-7-12,0-2-0], [7:0-5-4,0-7-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.06 6-7 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.94	Vert(CT) -0.11 6-7 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 6-7 >999 240	Weight: 245 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (5-11-4 max.): 1-4, except end verticals.
BOT CHORD 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-7,3-5: 2x4 SP No.1	

REACTIONS.	SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.
(size) 8=0-3-8 (req. 0-4-4), 5=0-3-8 (req. 0-4-9) Max Horz 8=-220(LC 4) Max Uplift 8=-3151(LC 4), 5=-3167(LC 5) Max Grav 8=7213(LC 2), 5=7786(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-8=-4973/2138, 1-2=-6756/2798, 2-3=-6756/2798
BOT CHORD	6-7=-2966/7141, 5-6=-2966/7141
WEBS	1-7=-3420/8229, 2-7=-201/291, 3-7=-521/186, 3-6=-1905/5246, 3-5=-8688/3544

- NOTES-** (12)
- 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: 2x10 - 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=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - WARNING: Required bearing size at joint(s) 8, 5 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=3151, 5=3167.
 - 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) 1167 lb down and 383 lb up at 0-6-12, 461 lb down and 357 lb up at 0-6-12, 1161 lb down and 389 lb up at 2-6-12, 455 lb down and 363 lb up at 2-6-12, 1805 lb down and 493 lb up at 4-6-12, 455 lb down and 363 lb up at 4-6-12, 1805 lb down and 493 lb up at 6-6-12, 455 lb down and 363 lb up at 6-6-12, 1805 lb down and 493 lb up at 8-6-12, 455 lb down and 363 lb up at 8-6-12, 1805 lb down and 493 lb up at 10-6-12, 455 lb down and 363 lb up at 10-6-12, and 1805 lb down and 493 lb up at 12-3-12, and 458 lb down and 360 lb up at 12-6-12 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 application is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



August 19, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job 2434707_MASTER	Truss FG04	Truss Type FLAT GIRDER	Qty 12	Ply 2	H&H/Calabash/ Job Reference (optional)	I42478007
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:30 2020 Page 2
ID:jTgj18SwfyF8hyT9h0Yt9kzZIYQ-joK0aFnztdTSUy4omCoRASN1sz0zIq93FGujuxymZzZ

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-1900(F=-1549, B=-352) 6=-1900(F=-1549, B=-352) 9=-1400(F=-1043, B=-357) 10=-1389(F=-1037, B=-352) 11=-1900(F=-1549, B=-352) 12=-1549(F) 13=-352(B) 14=-1904(F=-1549, B=-355)

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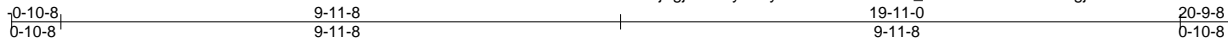
818 Soundside Road
Edenton, NC 27932

Job 2434707_MASTER	Truss G01	Truss Type GABLE	Qty 7	Ply 1	H&H/Calabash/ Job Reference (optional)	142478008
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:31 2020 Page 1

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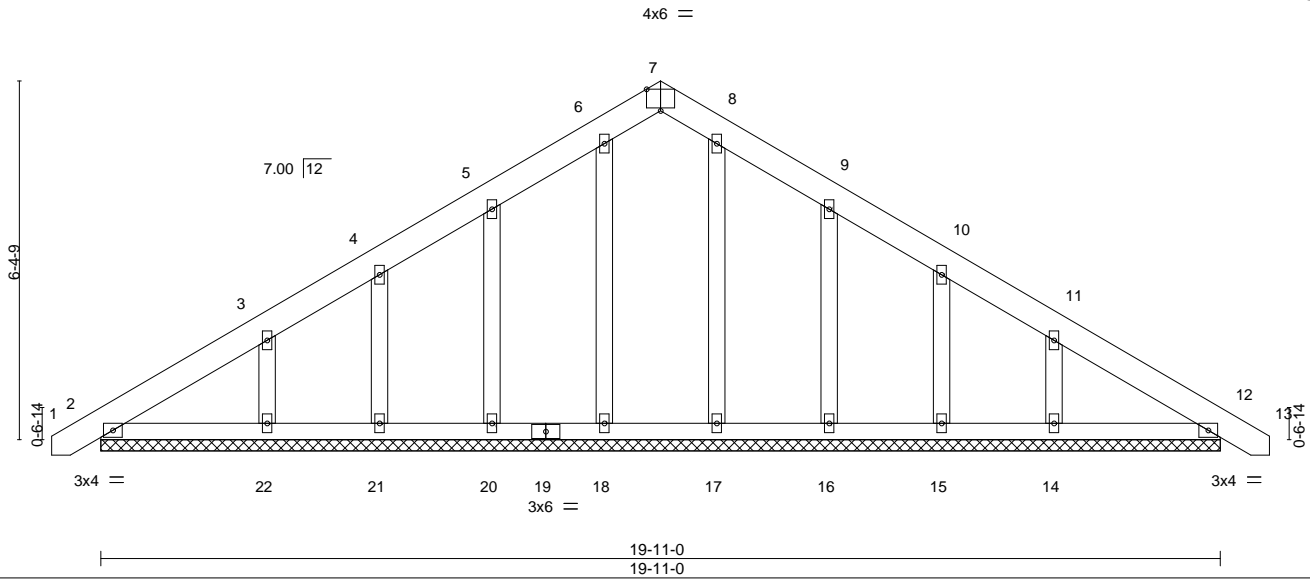


Plate Offsets (X,Y)--	[7:0-3-0,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.08	Vert(LL) 0.00	12	n/r	120		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.06	Vert(CT) 0.00	13	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.08	Horz(CT) 0.01	12	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 128 lb	FT = 20%

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

REACTIONS. All bearings 19-11-0.
 (lb) - Max Horz 2=-276(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 12 except 20=-161(LC 12), 21=-119(LC 12), 22=-213(LC 12), 16=-168(LC 13), 15=-119(LC 13), 14=-209(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 20, 21, 17, 16, 15, 12 except 22=284(LC 19), 14=280(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-22=-286/241, 11-14=-287/237

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 12 except (jt=lb) 20=161, 21=119, 22=213, 16=168, 15=119, 14=209.



August 19, 2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478009
2434707_MASTER	G02	Common	50	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:32 2020 Page 1
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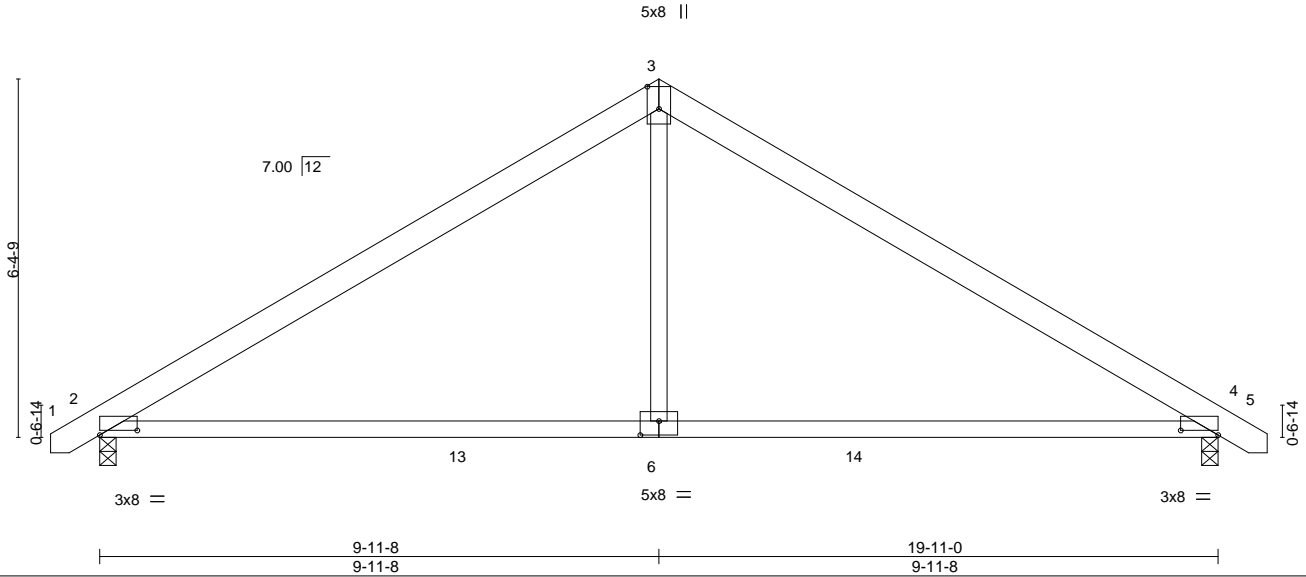


Plate Offsets (X,Y)--	[2:0-8-0,0-1-0], [3:0-4-12,0-2-8], [4:0-8-0,0-1-0], [6:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.13 6-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.18	Vert(CT) -0.29 6-12 >837 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 4 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.19 6-9 >999 240	Weight: 97 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=276(LC 11)
 Max Uplift 2=-385(LC 12), 4=-385(LC 13)
 Max Grav 2=921(LC 19), 4=921(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1134/526, 3-4=-1133/526
 BOT CHORD 2-6=-244/972, 4-6=-244/972
 WEBS 3-6=0/462

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=385, 4=385.
 - 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.



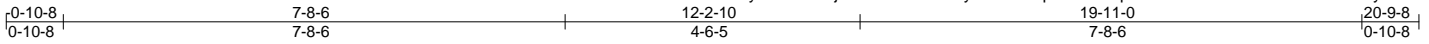
August 19, 2020

Job 2434707_MASTER	Truss G03	Truss Type GABLE	Qty 3	Ply 1	H&H/Calabash/ Job Reference (optional)	142478010
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:33 2020 Page 1

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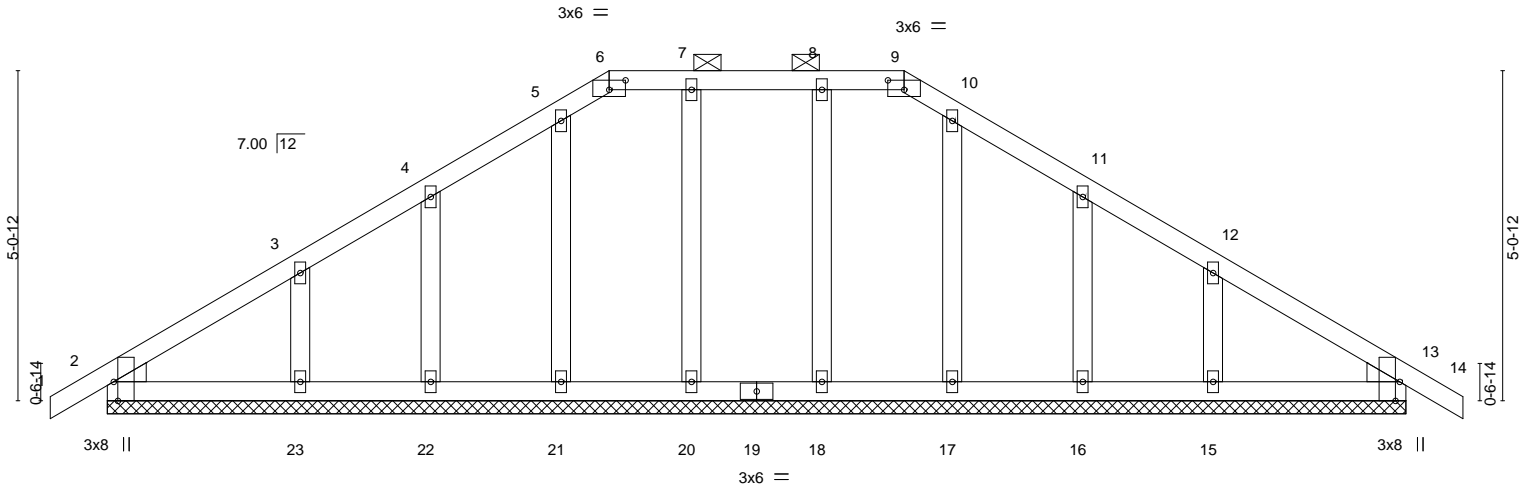


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [2:0-0-11,0-5-3], [2:0-0-5,0-0-9], [6:0-3-0,0-1-12], [9:0-3-0,0-1-12], [13:0-0-5,0-0-9], [13:0-0-11,0-5-3], [13:0-3-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	0.00	14	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	0.00	14	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.01	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 107 lb	FT = 20%

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

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

REACTIONS. All bearings 19-11-0.
 (lb) - Max Horz 2=223(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 18, 17, 13 except 22=129(LC 12), 23=217(LC 12), 16=133(LC 13), 15=212(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 21, 22, 18, 17, 16, 13 except 23=284(LC 19), 15=279(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-23=279/238, 12-15=280/233

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 18, 17, 13 except (jt=lb) 22=129, 23=217, 16=133, 15=212.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19,2020

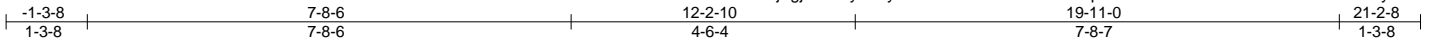
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478011
2434707_MASTER	G04	Hip Supported Gable	2	1		
Builders FirstSource, Sumter, SC - 29153,						8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:34 2020 Page 1
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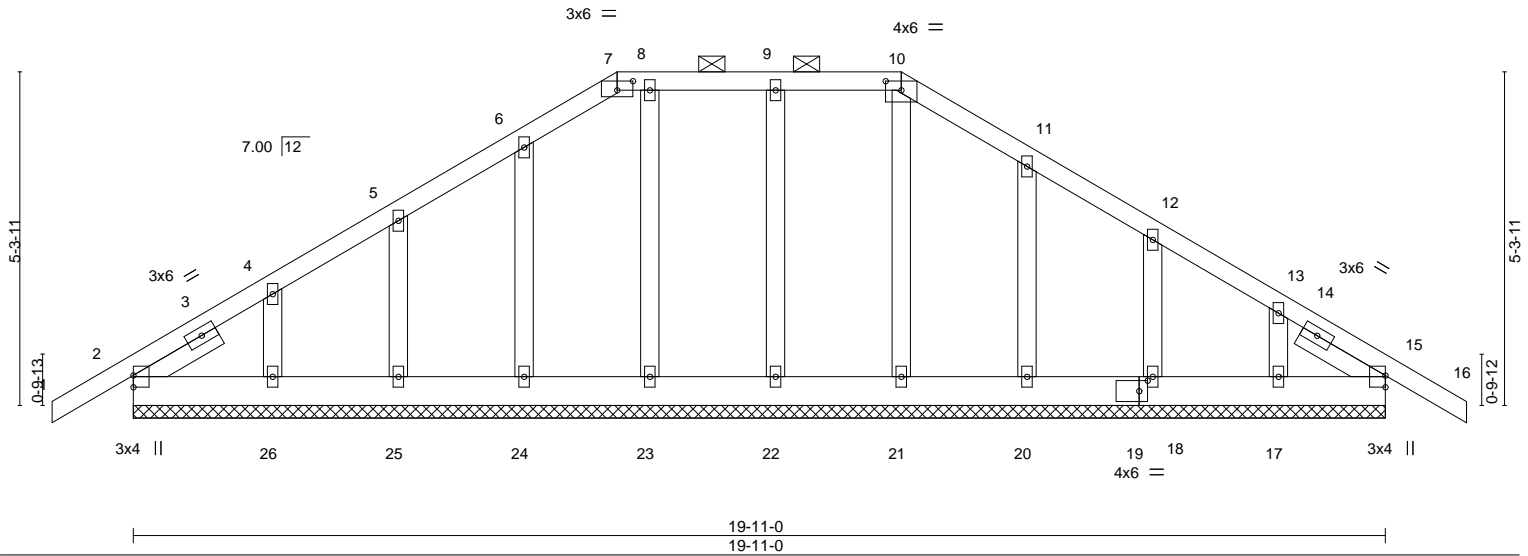


Plate Offsets (X,Y)--	[7:0-3-0,0-1-12], [10:0-3-0,0-1-12], [19:0-1-10,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	-0.00	16	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	16	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 131 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 7-10.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x4 SP No.3 1-6-3, Right 2x4 SP No.3 1-6-3	

REACTIONS. All bearings 19-11-0.
 (lb) - Max Horz 2=-234(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 21, 23, 15 except 22=-110(LC 8), 24=-120(LC 12), 25=-136(LC 12), 26=-183(LC 12), 20=-148(LC 13), 18=-139(LC 13), 17=-151(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 24, 25, 26, 20, 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=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 21, 23, 15 except (jt=lb) 22=110, 24=120, 25=136, 26=183, 20=148, 18=139, 17=151.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 15.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

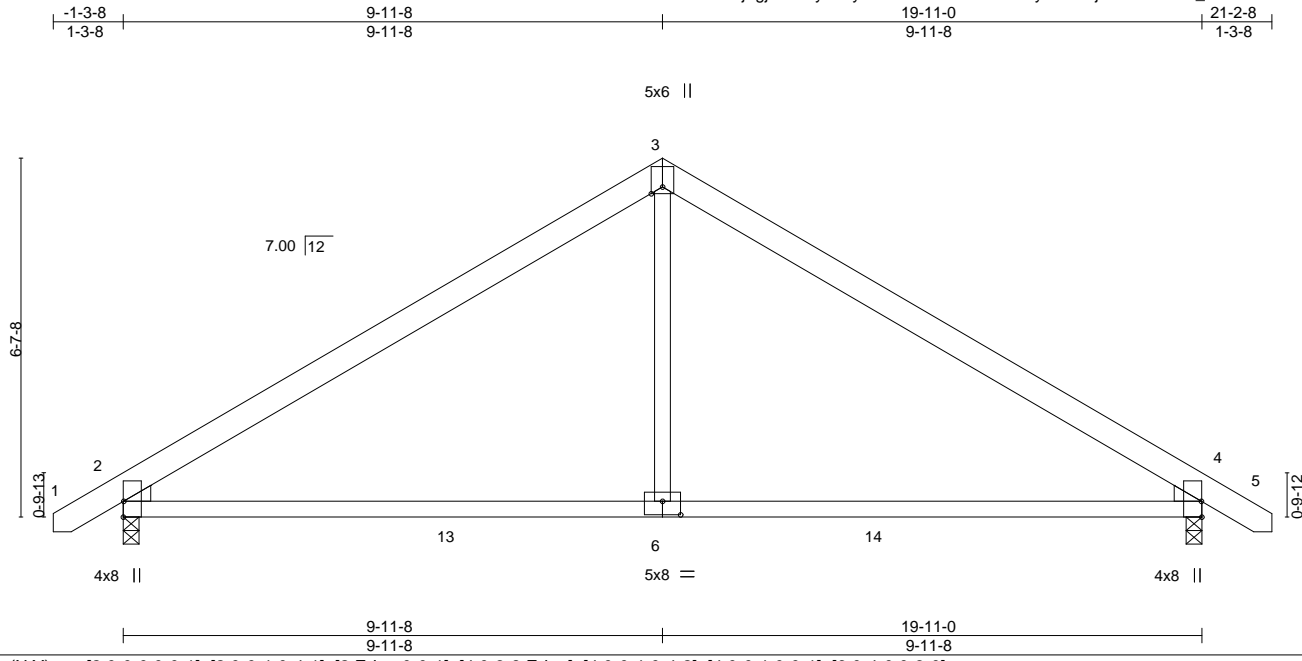


August 19,2020

Job 2434707_MASTER	Truss G05	Truss Type Common	Qty 10	Ply 1	H&H/Calabash/ Job Reference (optional)	142478012
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:35 2020 Page 1
ID:jtGj18SwfyF8hyT9h0Yt9kzZiYQ-4m7vdyr6iA5IbjzmZIOctV5sr_dvzHloPYbUZ9ymZzU



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Plate Offsets (X,Y)--	[2:0-0-0,0-0-1], [2:0-0-1,0-4-1], [2:Edge,0-0-1], [4:0-3-8,Edge], [4:0-0-1,0-4-2], [4:0-0-1,0-0-1], [6:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.12	6-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.25	6-12	>940		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	-0.04	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.17	6-9	>999	Weight: 101 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=287(LC 11)
Max Uplift 2=-403(LC 12), 4=-403(LC 13)
Max Grav 2=957(LC 19), 4=957(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1129/512, 3-4=-1129/512
BOT CHORD 2-6=-227/945, 4-6=-227/945
WEBS 3-6=0/475

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=403, 4=403.
 - 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.



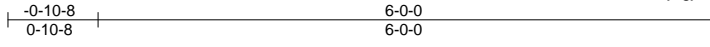
August 19,2020

Job 2434707_MASTER	Truss J01	Truss Type ROOF SPECIAL GIRDER	Qty 29	Ply 1	H&H/Calabash/ Job Reference (optional)	142478013
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:36 2020 Page 1

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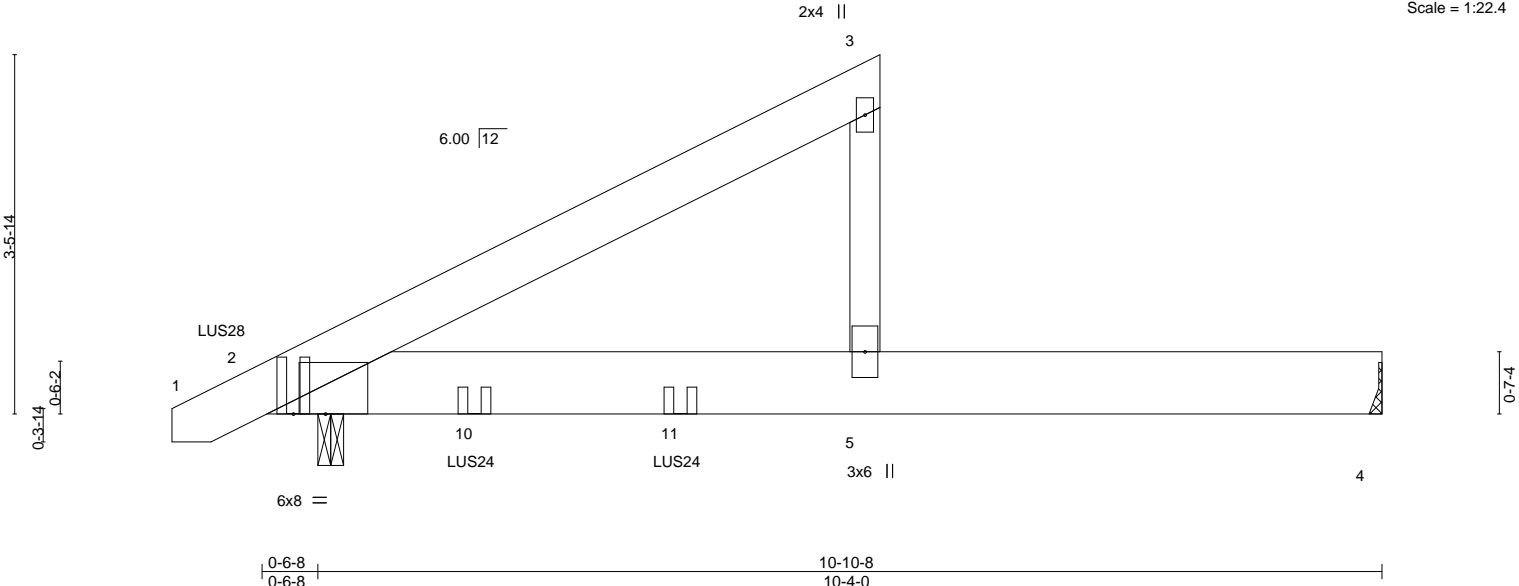


Plate Offsets (X,Y)--	[2-0-3-12,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.21	5	>624	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.39	5-9	>335		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.27	5-9	>474		
								Weight: 55 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 6-11-15 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 2=0-3-0
 Max Horz 2=223(LC 8)
 Max Uplift 4=-143(LC 8), 2=-845(LC 8)
 Max Grav 4=541(LC 1), 2=1856(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=143, 2=845.
- 6) Load case(s) 1, 2, 15, 16, 17, 18, 29, 30, 31, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 7) Use Simpson Strong-Tie LUS28 (6-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 0-0-9 from the left end to connect truss(es) to back face of bottom chord.
- 8) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 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, 2-5=-20, 4-5=-60
 Concentrated Loads (lb)
 Vert: 2=-537(B) 10=-527(B) 11=-527(B)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-50, 2-5=-20, 4-5=-50



Continued on page 2

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 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	
2434707_MASTER	J01	ROOF SPECIAL GIRDER	29	1		I42478013
					Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:36 2020 Page 2
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-YyhHrirkTTDcCtYy7TvrQjd2oO_NimNxdCL25bymZzT

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 2=-469(B) 10=-459(B) 11=-459(B)

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

Uniform Loads (plf)

Vert: 1-2=-42, 2-3=-50, 2-5=5, 4-5=-50

Horz: 1-2=-8, 2-3=-0, 7-9=-25

Concentrated Loads (lb)

Vert: 2=136(B) 10=134(B) 11=134(B)

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

Uniform Loads (plf)

Vert: 1-2=-26, 2-3=-33, 2-5=-20, 4-5=-50

Horz: 1-2=-24, 2-3=-17

Concentrated Loads (lb)

Vert: 2=149(B) 10=159(B) 11=159(B)

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

Uniform Loads (plf)

Vert: 1-2=-5, 2-3=-13, 2-5=-20, 4-5=-50

Horz: 1-2=-45, 2-3=-37

Concentrated Loads (lb)

Vert: 2=149(B) 10=159(B) 11=159(B)

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

Uniform Loads (plf)

Vert: 1-2=-28, 2-3=-35, 2-5=-20, 4-5=-50

Horz: 1-2=-22, 2-3=-15

Concentrated Loads (lb)

Vert: 2=149(B) 10=159(B) 11=159(B)

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

Uniform Loads (plf)

Vert: 1-2=-42, 2-3=-50, 2-5=5, 4-5=-50

Horz: 1-2=-8, 2-3=-0, 7-9=-25

Concentrated Loads (lb)

Vert: 2=-353(B) 10=-355(B) 11=-355(B)

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

Uniform Loads (plf)

Vert: 1-2=-26, 2-3=-33, 2-5=-20, 4-5=-50

Horz: 1-2=-24, 2-3=-17

Concentrated Loads (lb)

Vert: 2=-340(B) 10=-331(B) 11=-331(B)

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

Uniform Loads (plf)

Vert: 1-2=-5, 2-3=-13, 2-5=-20, 4-5=-50

Horz: 1-2=-45, 2-3=-37

Concentrated Loads (lb)

Vert: 2=-340(B) 10=-331(B) 11=-331(B)

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

Uniform Loads (plf)

Vert: 1-2=-28, 2-3=-35, 2-5=-20, 4-5=-50

Horz: 1-2=-22, 2-3=-15

Concentrated Loads (lb)

Vert: 2=-340(B) 10=-331(B) 11=-331(B)

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818 Soundside Road
Edenton, NC 27932

Job 2434707_MASTER	Truss J01A	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	H&H/Calabash/ Job Reference (optional)	142478014
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:37 2020 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZIYQ-08Ff2esMEEnLTq169gAQ4ywADyoLXRdD4ss4bd1ymZzS



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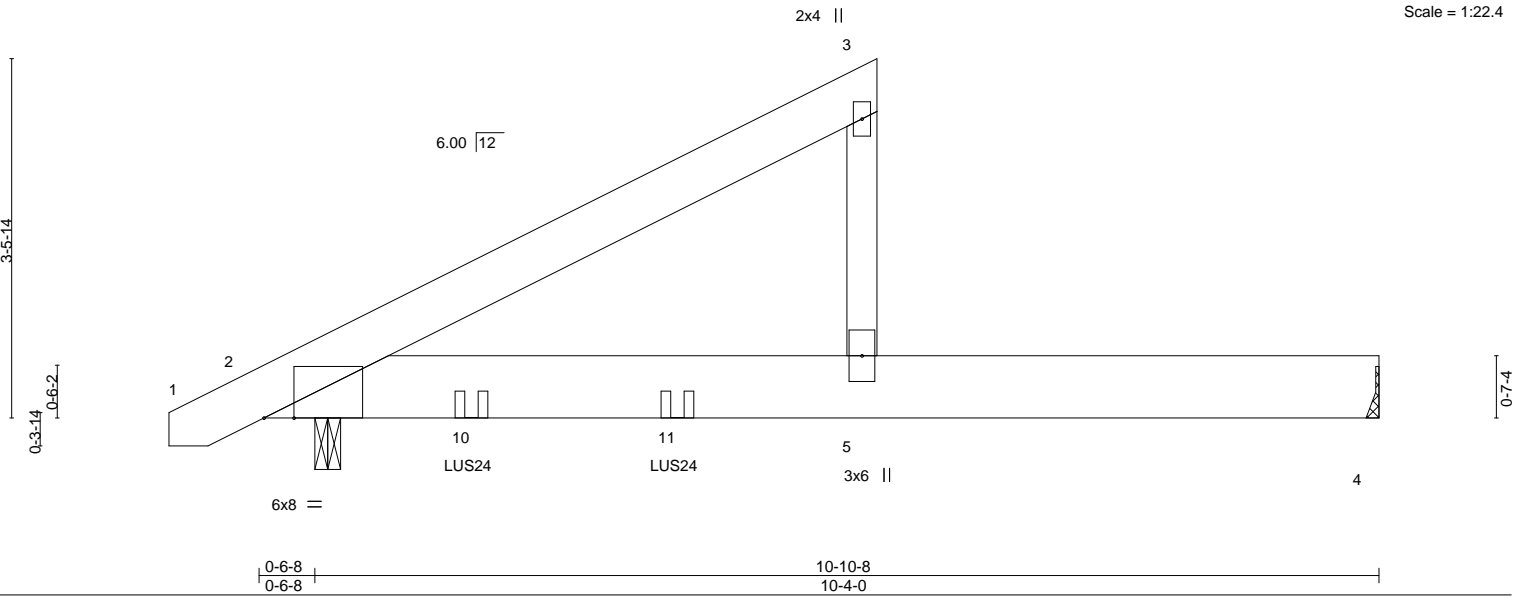


Plate Offsets (X,Y)--	[2:0-3-8,0-0-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	0.26	5-9	>504	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.34	5-9	>383	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 55 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 8-4-5 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 2=0-3-0
 Max Horz 2=216(LC 22)
 Max Uplift 4=-125(LC 8), 2=-937(LC 8)
 Max Grav 4=392(LC 1), 2=1798(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=125, 2=937.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to back face of bottom chord.
- 8) Fill all nail holes where hanger is in contact with lumber.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 528 lb down and 324 lb up at 0-0-9 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, 2-4=-20
 Concentrated Loads (lb)
 Vert: 2=-528(B) 10=-527(B) 11=-527(B)



August 19, 2020

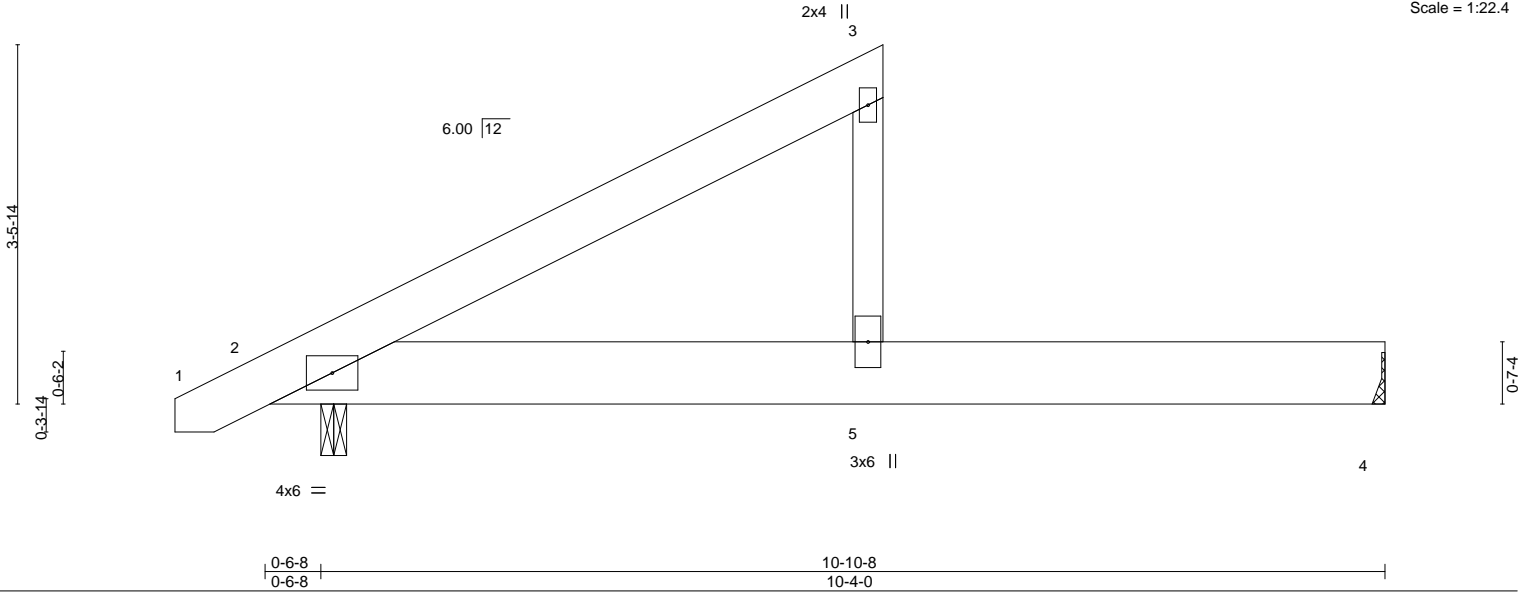
Job 2434707_MASTER	Truss J02	Truss Type ROOF SPECIAL	Qty 58	Ply 1	H&H/Calabash/ Job Reference (optional)	I42478015
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:37 2020 Page 1
ID:Tgj18SwfyF8hyT9h0Yt9kzZiYQ-08Ff2esMEEnLTq169gAQ4ywAFqoQuRDd4ss4bd1ymZzS



Scale = 1:22.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.09	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.16	5	>791		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.19	5	>690		
								Weight: 55 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.3

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

REACTIONS. (size) 4=Mechanical, 2=0-3-0
Max Horz 2=223(LC 12)
Max Uplift 4=39(LC 12), 2=-200(LC 12)
Max Grav 4=325(LC 1), 2=481(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-151/281

NOTES-

- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=200.
- Load case(s) 1, 2, 19, 20, 21, 22 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 2-5=-20, 4-5=-60
- Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 2-5=-20, 4-5=-50
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-3=-50, 2-5=5, 4-5=-50
Horz: 1-2=-8, 2-3=-0, 7-9=-25
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60



August 19, 2020

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	I42478015
2434707_MASTER	J02	ROOF SPECIAL	58	1		
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:37 2020 Page 2
 ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-08Ff2esMEEnLTq169gAQ4yWAFqoQuRDd4ss4bd1ymZzS

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-26, 2-3=-33, 2-5=-20, 4-5=-50

Horz: 1-2=-24, 2-3=-17

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

Uniform Loads (plf)

Vert: 1-2=-5, 2-3=-13, 2-5=-20, 4-5=-50

Horz: 1-2=-45, 2-3=-37

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

Uniform Loads (plf)

Vert: 1-2=-28, 2-3=-35, 2-5=-20, 4-5=-50

Horz: 1-2=-22, 2-3=-15

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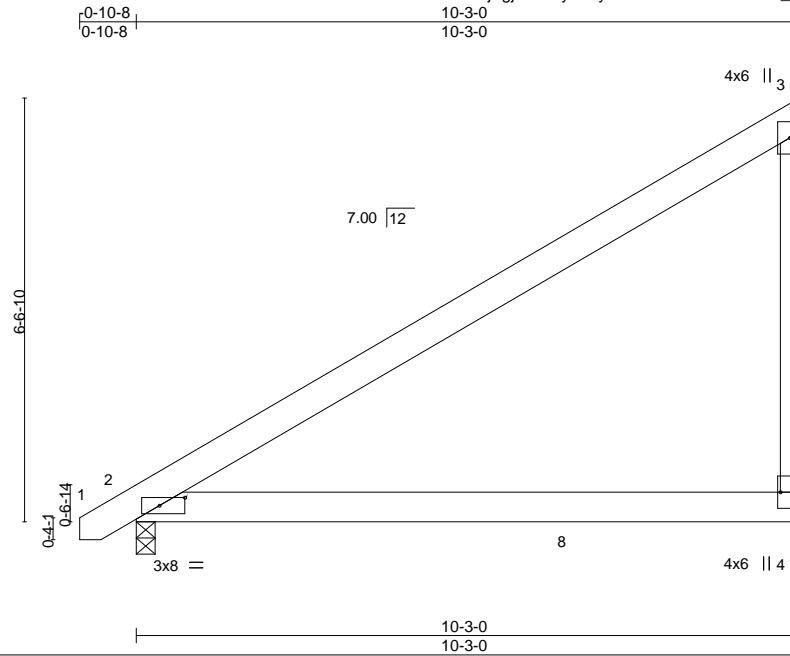
818 Soundside Road
 Edenton, NC 27932

Job 2434707_MASTER	Truss J03	Truss Type JACK-CLOSED	Qty 63	Ply 1	H&H/Calabash/ Job Reference (optional)	142478016
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:38 2020 Page 1

ID: jTgj18SwfyF8hyT9h0Yt9kzZiYQ-ULo1F_t_75TJSBhLEuxJV8jFxBISAgE5Wq8AUymZzR



Scale = 1:35.6

Plate Offsets (X,Y)--	[2:0-4-11,0-1-8], [4:Edge,0-3-8]							
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.96	Vert(LL) 0.19	4-7	>623	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.22	4-7	>560	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: 63 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 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. (size) 4=Mechanical, 2=0-3-8
Max Horz 2=434(LC 12)
Max Uplift 4=-350(LC 12), 2=-142(LC 12)
Max Grav 4=564(LC 19), 2=477(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-423/347

- NOTES-** (7)
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=350, 2=142.
 - 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.
 - 7) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



August 19, 2020

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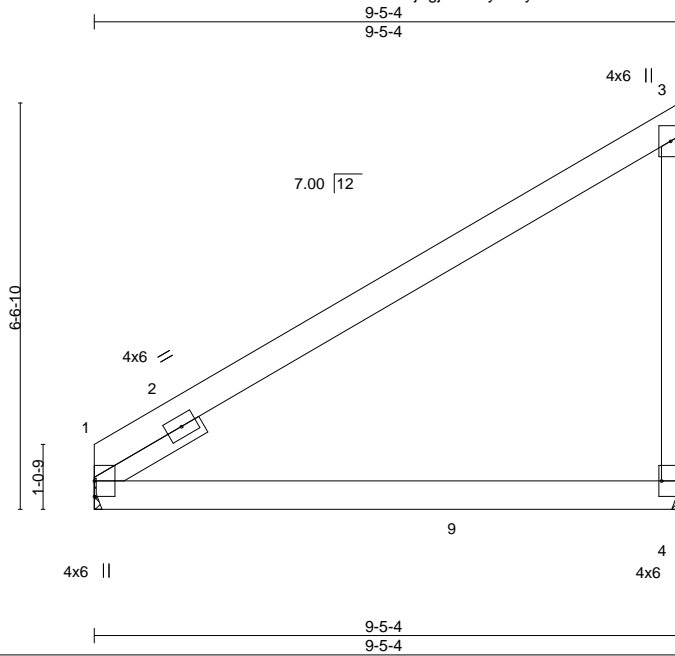
818 Soundside Road
Edenton, NC 27932

Job 2434707_MASTER	Truss J03A	Truss Type Jack-Closed	Qty 84	Ply 1	H&H/Calabash/ Job Reference (optional)	I42478017
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8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:39 2020 Page 1

ID:Tgj18SwfyF8hyT9h0Yt9kzZiYQ-zXMPTKudmObA3LGXobSY1LFSJb5Vv77NKAZiwwmZzQ



Scale = 1:37.2

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	0.15	4-7	>720	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.16	4-7	>710		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.05	1	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 59 lb	FT = 20%

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

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

REACTIONS. (size) 1=Mechanical, 4=Mechanical
Max Horz 1=376(LC 12)
Max Uplift 1=-79(LC 12), 4=-343(LC 12)
Max Grav 1=395(LC 19), 4=531(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-419/146, 3-4=-401/336

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=343.
 - 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.



August 19,2020

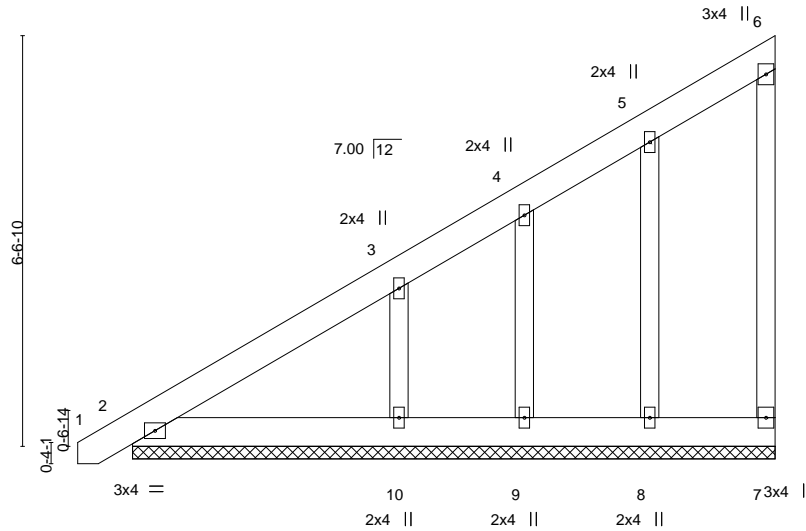
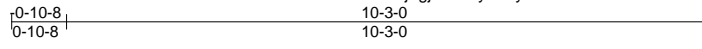
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job 2434707_MASTER	Truss J04	Truss Type GABLE	Qty 9	Ply 1	H&H/Calabash/ Job Reference (optional)	I42478018
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:39 2020 Page 1



Scale = 1:36.8

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)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	-0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 77 lb	FT = 20%

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

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

REACTIONS. All bearings 10-3-0.
 (lb) - Max Horz 2=415(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 9 except 8=-154(LC 12), 10=-294(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=401(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-543/500, 3-4=-352/325, 4-5=-286/283
 WEBS 5-8=-266/229, 3-10=-386/322

- NOTES-** (8)
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 2-0-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 9 except (jt=lb) 8=154, 10=294.
 - 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.



August 19, 2020

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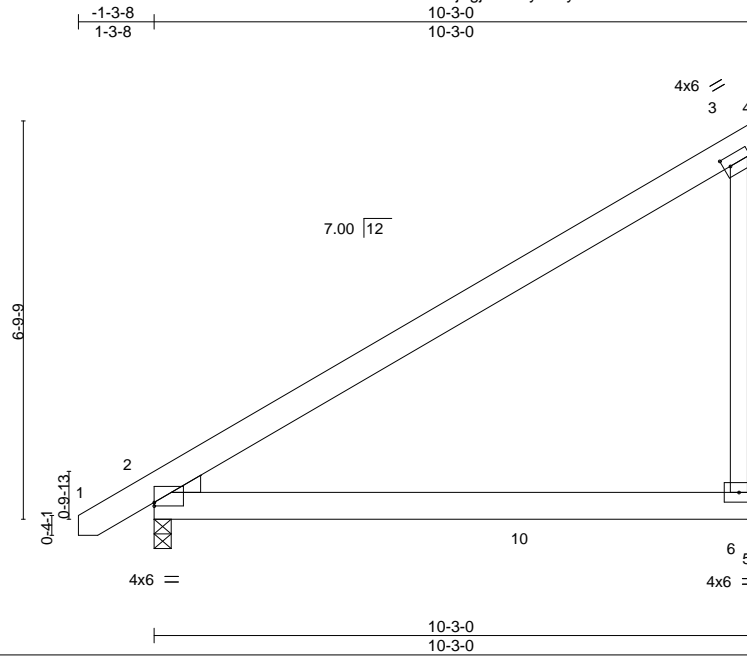
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 2434707_MASTER	Truss J13	Truss Type JACK-CLOSED	Qty 21	Ply 1	H&H/Calabash/ Job Reference (optional)	142478020
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:41 2020 Page 1

ID: jTgj18SwfyF8hyT9h0Yt9kzZiYQ-vvUAu?vtl0ruJeQwv0V07mLrqPmeN0cgnU2pnoymZzO
10-3-0
10-3-0



Scale = 1:39.3

Plate Offsets (X,Y)--	[2:0-0-0,0-0-12], [3:0-1-6,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) 0.17 6-9 >716 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.20 6-9 >608 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) -0.03 2 n/a n/a		
	Code IRC2015/TPI2014			Weight: 65 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

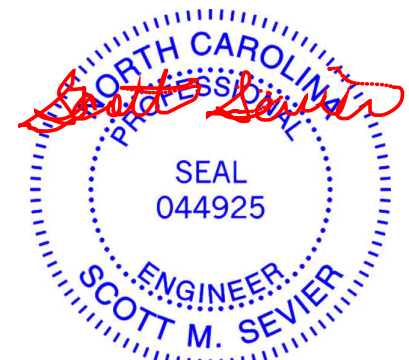
BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=453(LC 12)
Max Uplift 6=-370(LC 12), 2=-146(LC 12)
Max Grav 6=580(LC 19), 2=499(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-265/155, 3-6=-446/372

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=370, 2=146.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



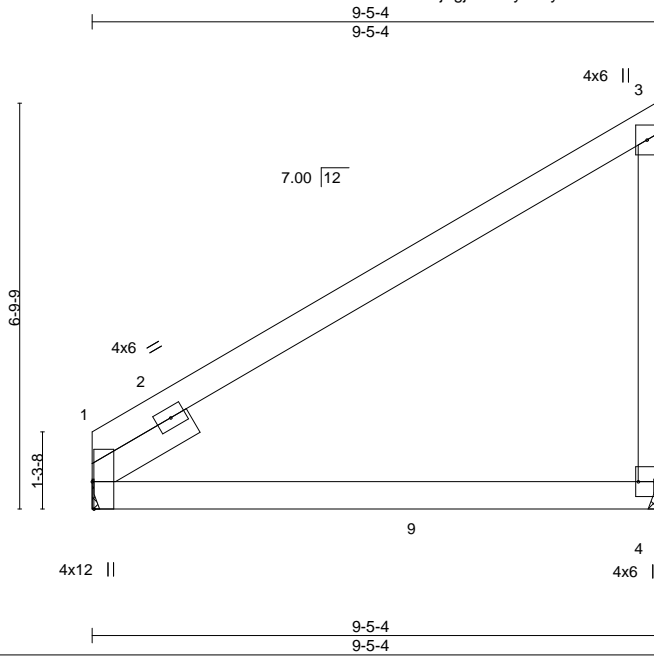
August 19, 2020

Job 2434707_MASTER	Truss J13A	Truss Type JACK-CLOSED	Qty 35	Ply 1	H&H/Calabash/ Job Reference (optional)	I42478021
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:42 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-N62Y5LwV3Jzlwo?6Tj0Ff_ty8p716Tsq08oMJFymZzN



Scale = 1:38.6

Plate Offsets (X,Y)--	[1:0-5-8,Edge], [4:Edge,0-3-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL) 0.16 4-7 >699 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.16 4-7 >689 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.07 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 61 lb	FT = 20%

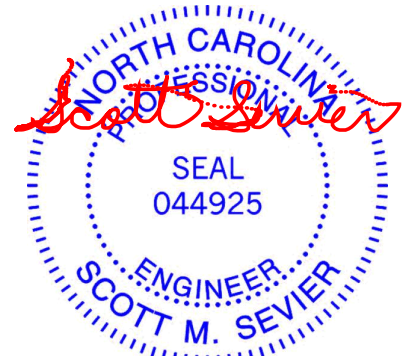
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-12

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

REACTIONS. (size) 1=Mechanical, 4=Mechanical
Max Horz 1=376(LC 12)
Max Uplift 1=-69(LC 12), 4=-353(LC 12)
Max Grav 1=397(LC 19), 4=542(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-445/173, 3-4=-407/343

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=353.
 - 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.



August 19,2020

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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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



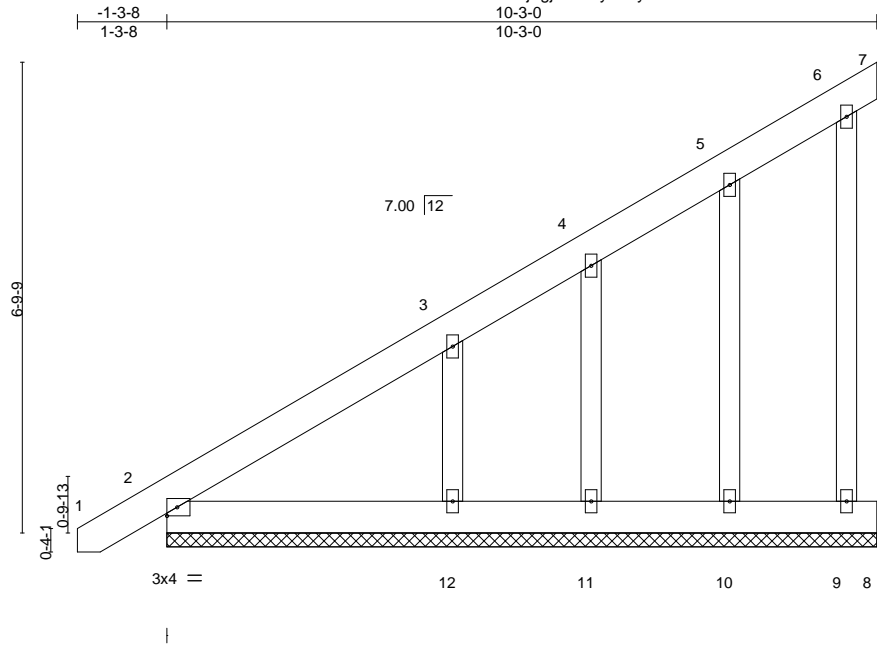
818 Soundside Road
Edenton, NC 27932

Job 2434707_MASTER	Truss J14	Truss Type MONOPITCH SUPPORTED	Qty 3	Ply 1	H&H/Calabash/ Job Reference (optional)	I42478022
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:42 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Y19kzZiYQ-N62Y5LwV3Jzwo?6Tj0Ff_t7opD36SjQ08oMJFymZzN
10-3-0
10-3-0



Scale = 1:33.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 79 lb	FT = 20%

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

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

REACTIONS. All bearings 10-3-0.
 (lb) - Max Horz 2=457(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 9, 8, 11 except 10=143(LC 12), 12=306(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 7, 9, 2, 8, 10, 11 except 12=384(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-433/371
 WEBS 3-12=-403/334

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 9, 8, 11 except (jt=lb) 10=143, 12=306.
 - 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



August 19, 2020

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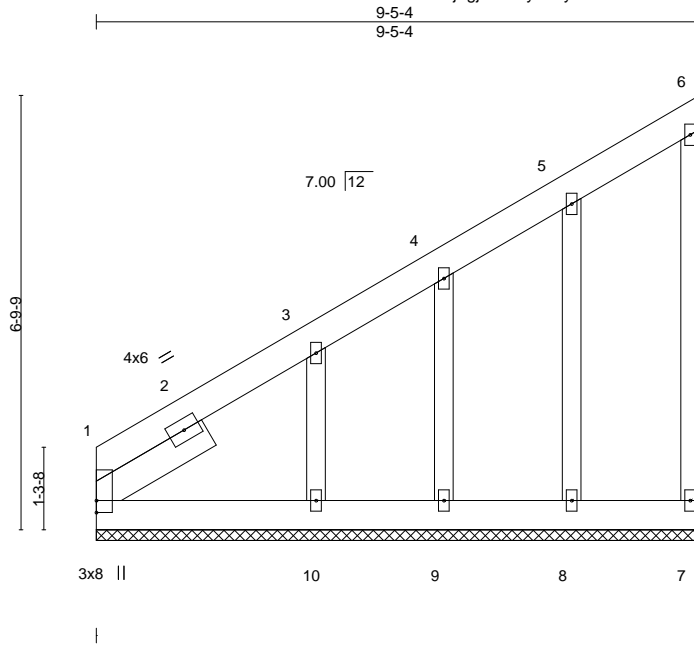
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 2434707_MASTER	Truss J14A	Truss Type GABLE	Qty 5	Ply 1	H&H/Calabash/ Job Reference (optional)	I42478023
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:43 2020 Page 1

ID:jtGj18SwfyF8hyT9h0Yt9kzZiYQ-ricwJhx7pd5cYyal1RXUCBQHjCZMrvHzEoXvrhmZzM



Scale = 1:36.1

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 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	-0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 78 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 2-0-11

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

REACTIONS. All bearings 9-5-4.
 (lb) - Max Horz 1=432(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9 except 8=145(LC 12), 10=380(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 8, 9 except 10=360(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=441/360
 WEBS 3-10=417/395

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 9 except (jt=lb) 8=145, 10=380.



August 19, 2020

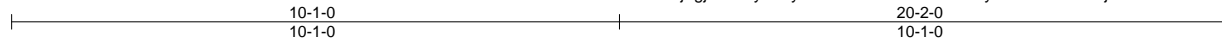
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

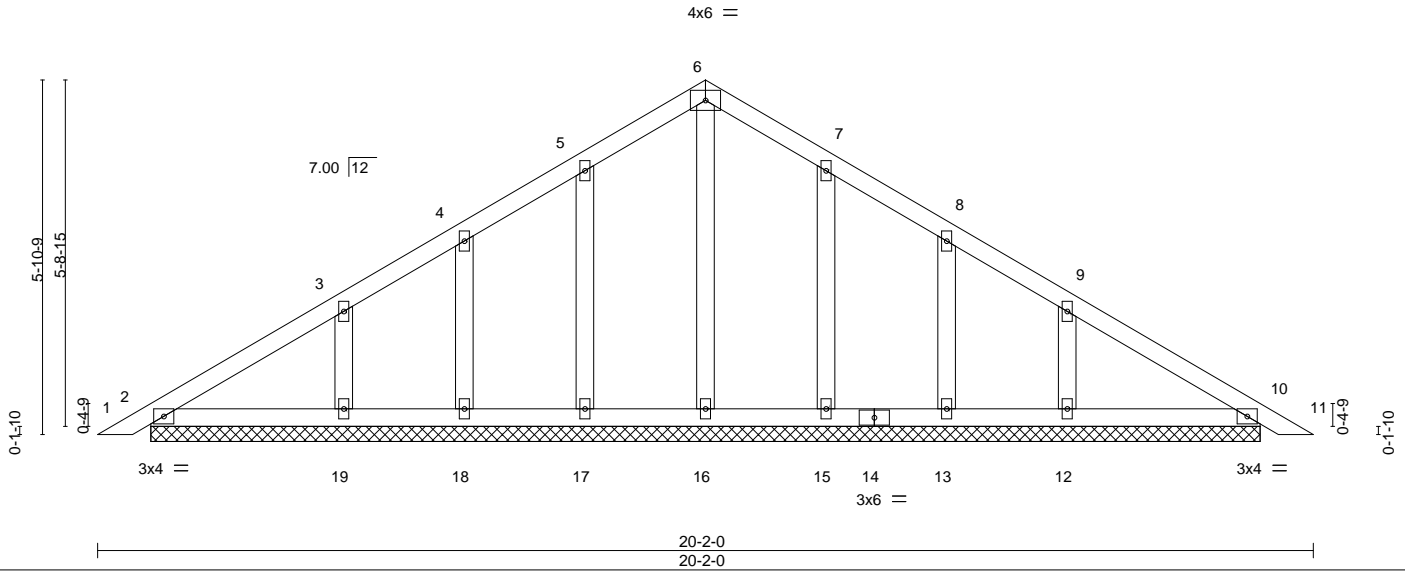
Job 2434707_MASTER	Truss PB01	Truss Type GABLE	Qty 40	Ply 1	H&H/Calabash/ Job Reference (optional)	142478024
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:44 2020 Page 1
ID:jtGj18SwfyF8hyT9h0Yt9kzZiYQ-JUAIW1ylaxETA69Vb82jkPzTJcuCaM56TSHNTn7ymZzL



Scale = 1:38.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	0.00 11	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00 11	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 95 lb	FT = 20%

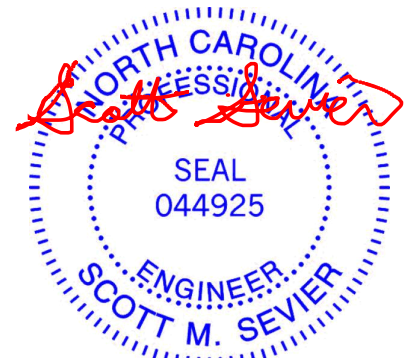
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 18-4-13.
(lb) - Max Horz 2--254(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 17--150(LC 12), 18--108(LC 12), 19--224(LC 12), 15--148(LC 13), 13--109(LC 13), 12--223(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 17, 10, 18, 15, 13 except 19=307(LC 19), 12=306(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-19--290/244, 9-12--291/243

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 17=150, 18=108, 19=224, 15=148, 13=109, 12=223.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



August 19, 2020

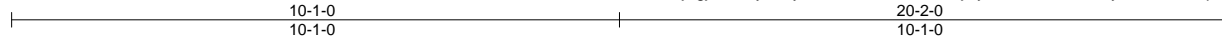
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job 2434707_MASTER	Truss PB02	Truss Type GABLE	Qty 616	Ply 1	H&H/Calabash/ Job Reference (optional)	142478025
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:45 2020 Page 1
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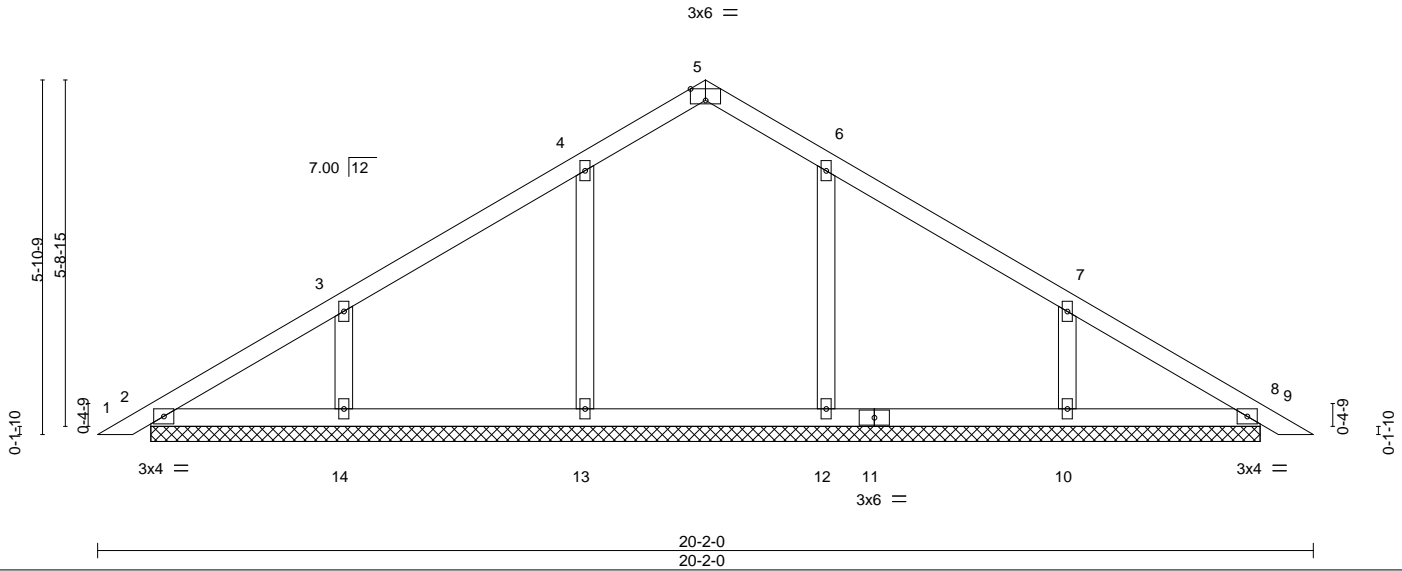


Plate Offsets (X,Y)--	[5:0-3-0,Edge], [6:0-0-0,0-0-0], [7:0-0-0,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) 0.00 9 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) 0.00 9 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.01 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 79 lb	FT = 20%

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

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

REACTIONS. All bearings 18-4-13.
(lb) - Max Horz 2=254(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 13=213(LC 12), 14=293(LC 12), 12=206(LC 13),
10=294(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8 except 13=413(LC 19), 14=374(LC 19), 12=404(LC 20),
10=376(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-300/199, 7-8=-287/201
BOT CHORD 2-14=-206/310, 13-14=-206/310, 12-13=-206/310, 10-12=-206/310, 8-10=-206/310
WEBS 4-13=-303/263, 3-14=-385/331, 6-12=-302/255, 7-10=-385/333

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 4-0-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 13, 293 lb uplift at joint 14, 206 lb uplift at joint 12 and 294 lb uplift at joint 10.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



August 19, 2020

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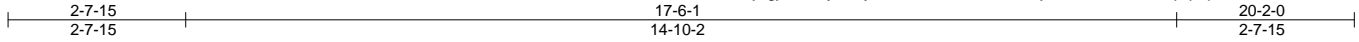
818 Soundside Road
Edenton, NC 27932

Job 2434707_MASTER	Truss PB03	Truss Type GABLE	Qty 6	Ply 1	H&H/Calabash/ Job Reference (optional)	142478026
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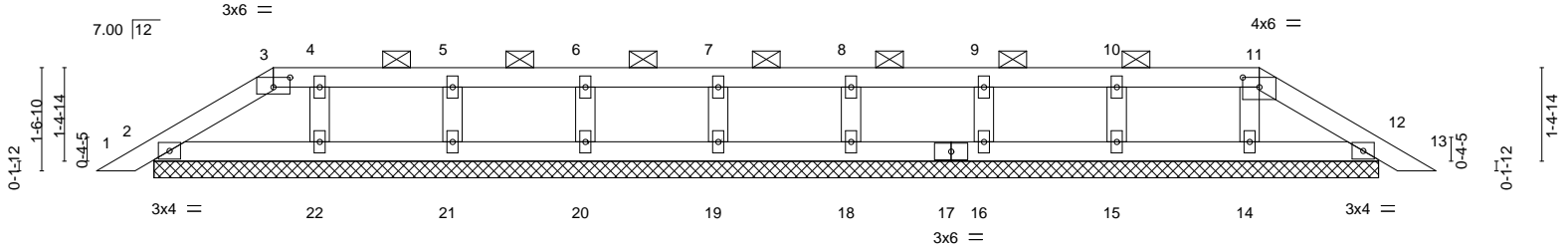
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:46 2020 Page 1

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Scale = 1:34.5



20-2-0
20-2-0

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	12	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	12	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 68 lb	FT = 20%

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

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

REACTIONS. All bearings 18-5-4.
(lb) - Max Horz 2=-63(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 16, 18, 19, 20, 22, 12 except 15=-110(LC 9), 21=-106(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 15, 16, 18, 19, 20, 21, 22, 12

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=150mph (3-second gust) Vasd=119mph; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 16, 18, 19, 20, 22, 12 except (jt=lb) 15=110, 21=106.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

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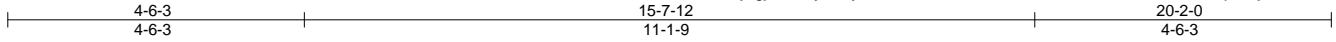
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478027
2434707_MASTER	PB04	GABLE	6	1		

Builders FirstSource, Sumter, SC - 29153,

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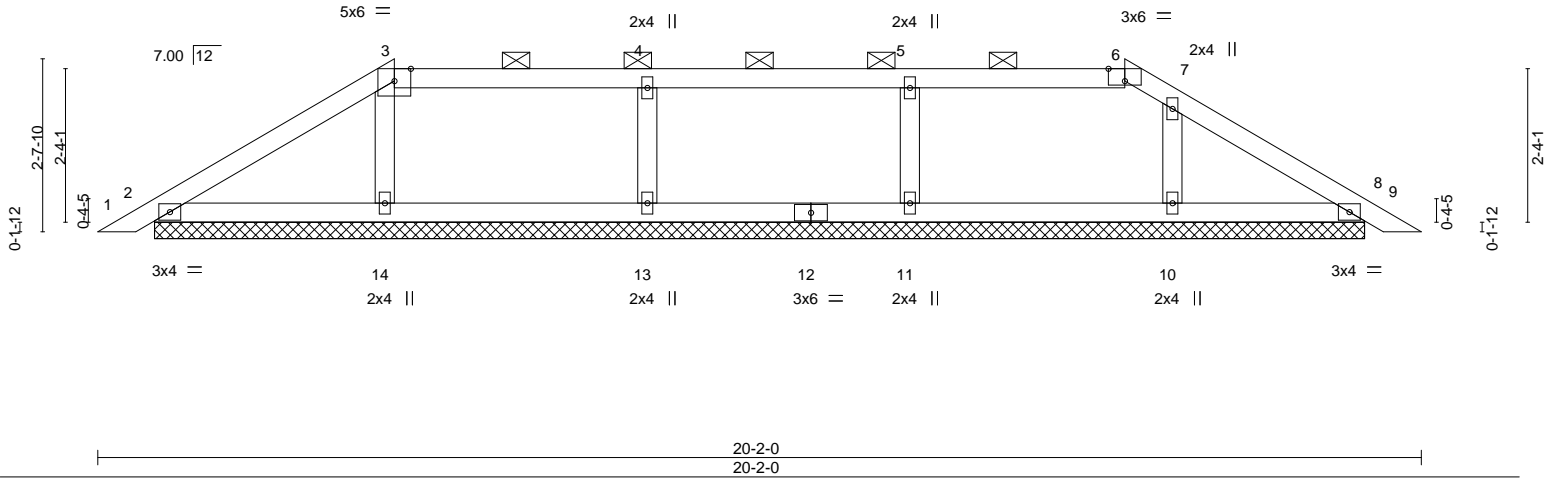


Plate Offsets (X,Y)--	[6:0-3-0,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	0.00	8	n/r 120
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	0.00	9	n/r 120
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	8	n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S				
							PLATES MT20
							GRIP 244/190
							Weight: 70 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 2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 18-5-4.
 (lb) - Max Horz 2=-107(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 14=-137(LC 12), 13=-206(LC 8), 11=-188(LC 9), 10=-141(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 8 except 14=295(LC 1), 13=334(LC 24), 11=325(LC 23), 10=278(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-13=-255/251

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 14=137, 13=206, 11=188, 10=141.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



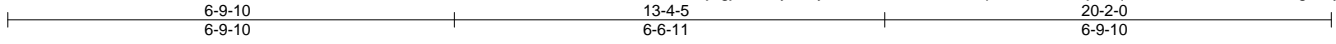
August 19, 2020

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478028
2434707_MASTER	PB05	GABLE	6	1		

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8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:48 2020 Page 1

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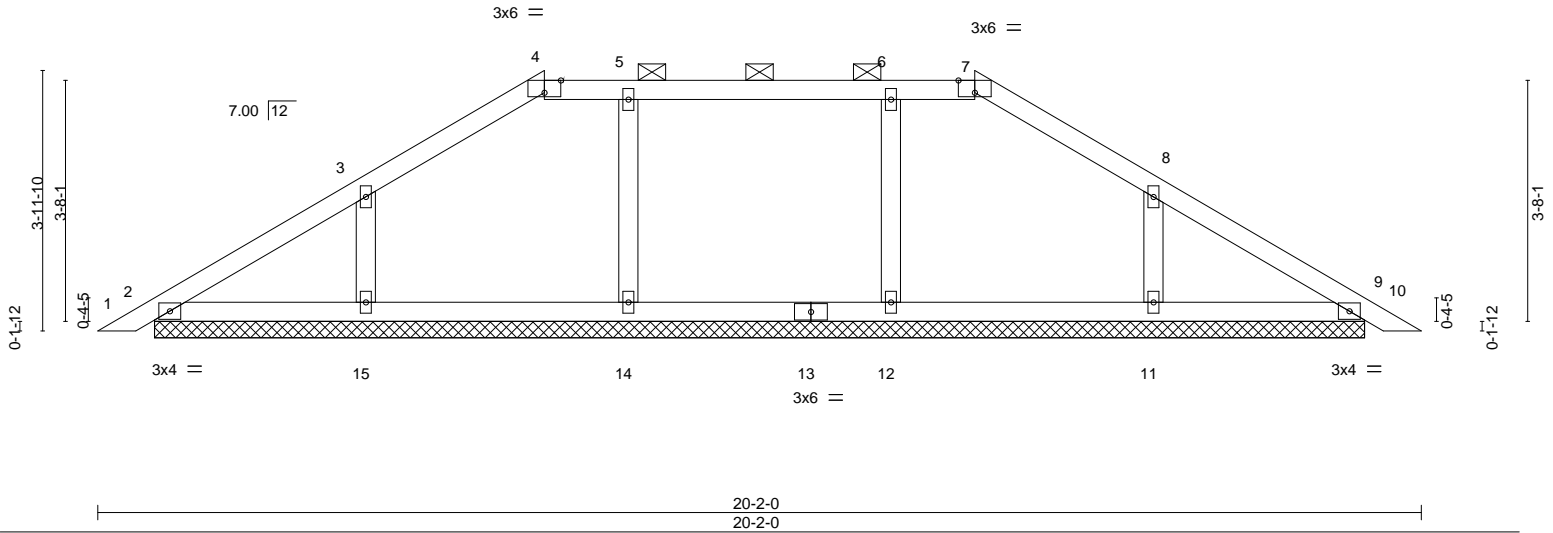


Plate Offsets (X,Y)--	[4:0-3-0,Edge], [7:0-3-0,Edge], [8:0-0-0,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) 0.00 10 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) 0.00 10 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 75 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.): 4-7.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-5-4.
 (lb) - Max Horz 2=165(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 9 except 14=183(LC 9), 15=246(LC 12), 12=-175(LC 8),
 11=-243(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 14=316(LC 23), 15=362(LC 19), 12=316(LC 24),
 11=357(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-15=-325/283, 8-11=-326/279

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 14=183, 15=246, 12=175, 11=243.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

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

Job 2434707_MASTER	Truss PB06	Truss Type GABLE	Qty 6	Ply 1	H&H/Calabash/ Job Reference (optional)	142478029
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:49 2020 Page 1

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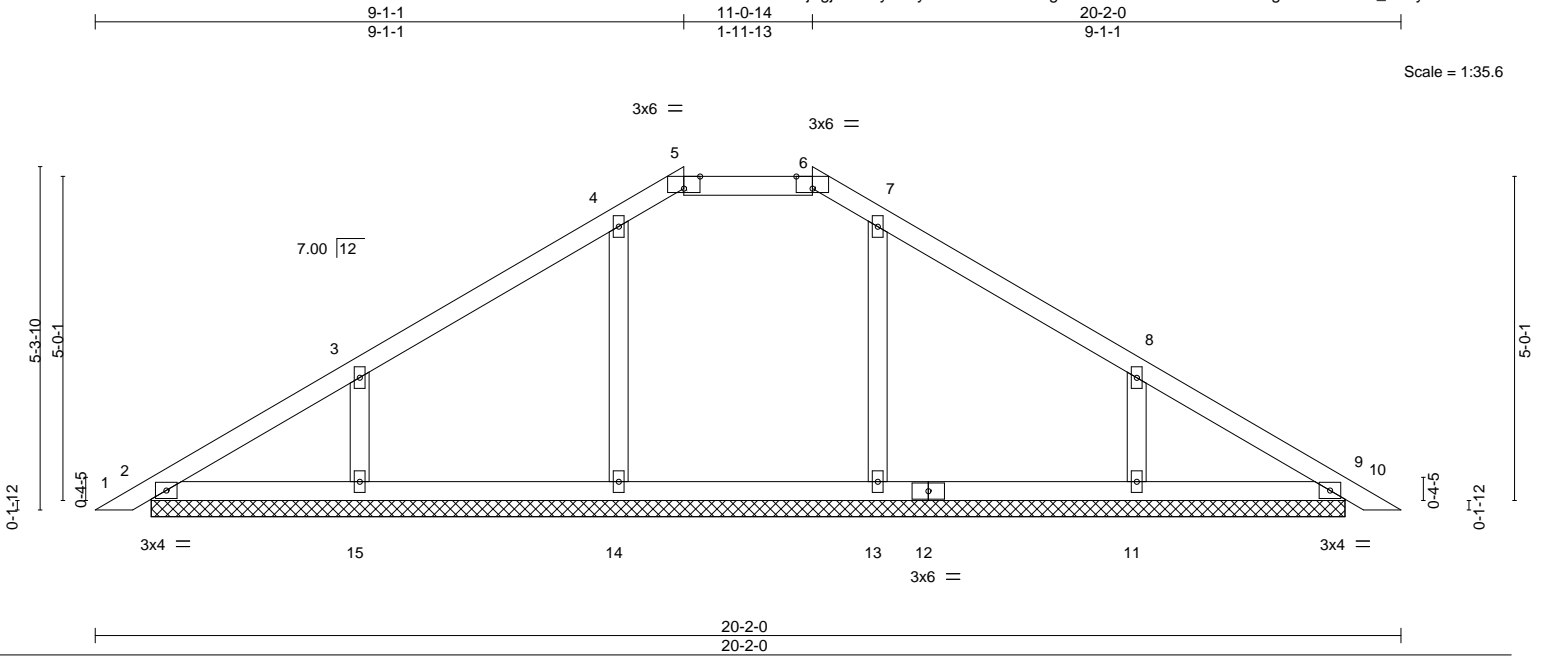


Plate Offsets (X,Y)-- [5:0-3-0,Edge], [6:0-3-0,Edge], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	0.00	10	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	0.00	10	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 79 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.): 5-6.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-5-4.
 (lb) - Max Horz 2=-225(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 9 except 14=-176(LC 12), 15=-295(LC 12), 13=-160(LC 13), 11=-297(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 14=398(LC 19), 15=379(LC 19), 13=380(LC 20), 11=382(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-263/217
 BOT CHORD 2-15=-201/265, 14-15=-201/265, 13-14=-201/265, 11-13=-201/265, 9-11=-201/265
 WEBS 4-14=-265/226, 3-15=-390/334, 7-13=-264/209, 8-11=-389/337

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 14=176, 15=295, 13=160, 11=297.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

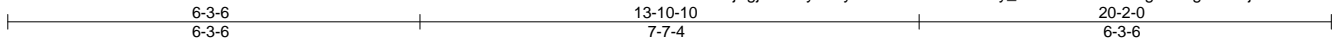


August 19, 2020

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478031
2434707_MASTER	PB08	GABLE	6	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:51 2020 Page 1
 ID:Tgj18SwfyF8hyT9h0Yt9kzZiYQ-cr5y_Q18x46TVBBrV6gMWtlg0RHGjXt841TK7DymZzE



Scale = 1:35.1

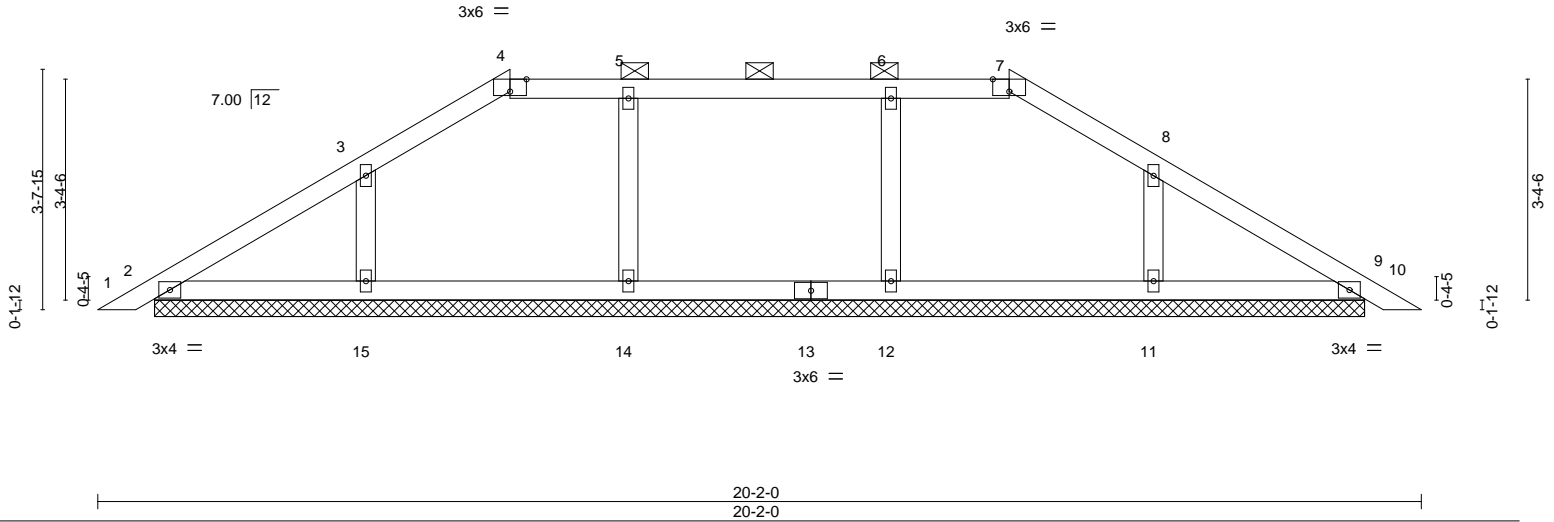


Plate Offsets (X,Y)--	[4:0-3-0,Edge], [7:0-3-0,Edge], [8:0-0-0,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) 0.00 10 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) 0.00 10 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 74 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.): 4-7.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-5-4.
 (lb) - Max Horz 2=-152(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 9 except 14=-174(LC 9), 15=-229(LC 12), 12=-169(LC 8),
 11=-224(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 14=310(LC 23), 15=347(LC 19), 12=310(LC 24),
 11=341(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-15=-304/264, 8-11=-305/259

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 14=174, 15=229, 12=169, 11=224.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

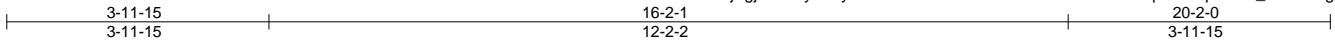
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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 Edenton, NC 27932

Job 2434707_MASTER	Truss PB09	Truss Type GABLE	Qty 6	Ply 1	H&H/Calabash/ Job Reference (optional)	142478032
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:52 2020 Page 1
ID:Tgj18SwfyF8hyT9h0Yt9kzZiYQ-41fKBm2miOEK7Lm13qBb35lqHrcZS_AJhDufgymZzD



Scale = 1:35.1

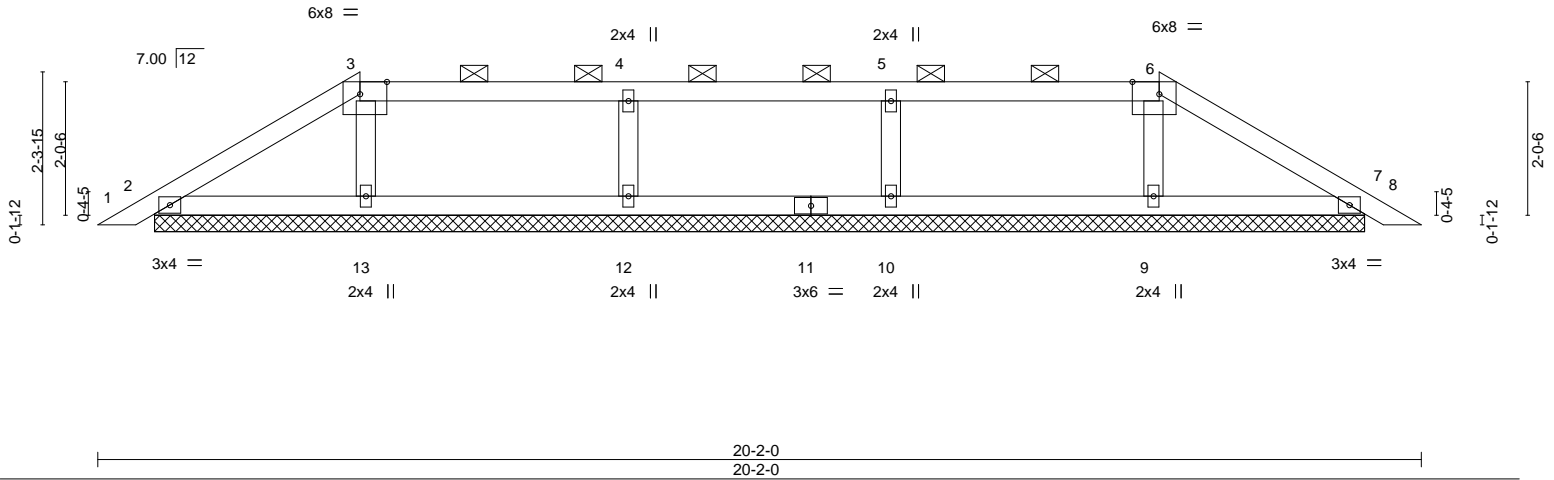


Plate Offsets (X,Y)--	[3:0-4-15,Edge], [6:0-4-15,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) 0.00 8 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) 0.00 8 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 68 lb	FT = 20%

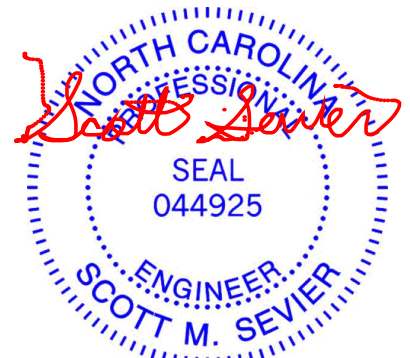
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 18-5-4.
(lb) - Max Horz 2=93(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 12=206(LC 8), 13=123(LC 9), 7=108(LC 13), 10=205(LC 9), 9=101(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2, 7 except 12=340(LC 24), 13=287(LC 23), 10=339(LC 23), 9=287(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-12=-259/252, 5-10=-259/252

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (it=lb) 12=206, 13=123, 7=108, 10=205, 9=101.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

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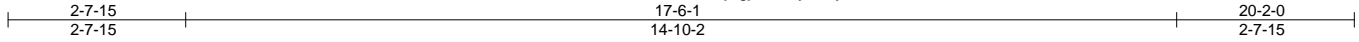
Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478033
2434707_MASTER	PB10	GABLE	6	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:54 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-0Qm4cS31E?U2MewQAFE38WNCfelUwv9bm?i?kYymZzB

Job Reference (optional)



Scale = 1:34.5

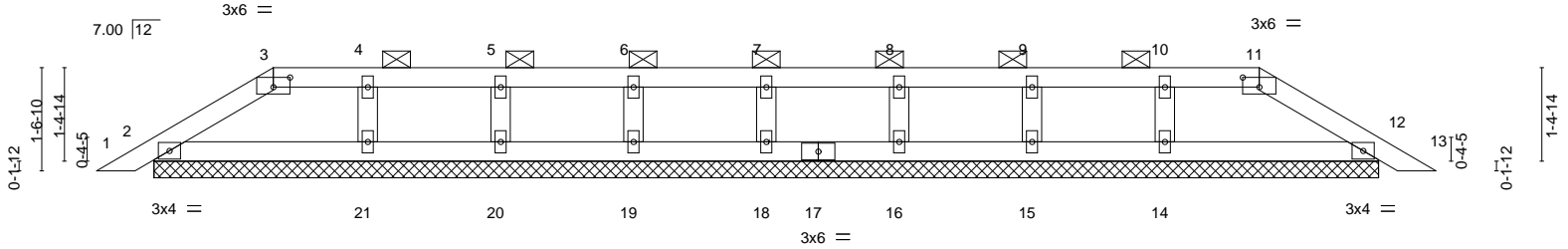


Plate Offsets (X,Y)--	[3:0-3-0,0-1-12], [11:0-3-0,0-1-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 67 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.): 3-11.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-5-4.
 (lb) - Max Horz 2=-62(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 16 except 2=-103(LC 12), 20=-107(LC 8), 21=-115(LC 9),
 15=-105(LC 9), 14=-109(LC 8), 12=-107(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 16, 15, 14, 12

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=150mph (3-second gust) Vasd=119mph; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 19, 16 except (jt=lb) 2=103, 20=107, 21=115, 15=105, 14=109, 12=107.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

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818 Soundside Road
Edenton, NC 27932

Job 2434707_MASTER	Truss PB11	Truss Type GABLE	Qty 15	Ply 1	H&H/Calabash/ Job Reference (optional)	142478034
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Builders FirstSource, Sumter, SC - 29153,

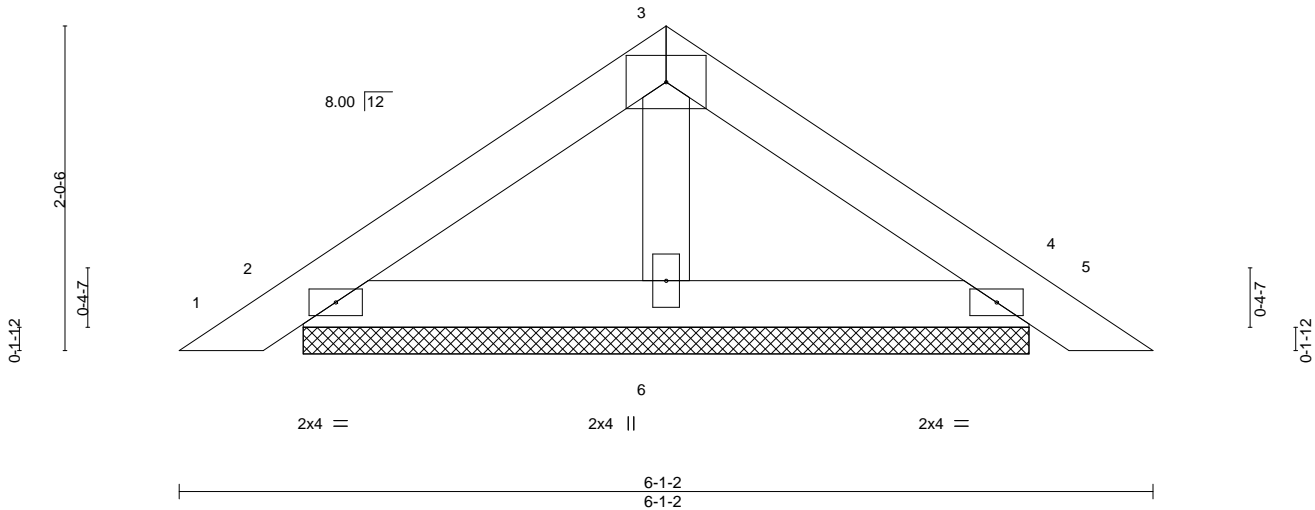
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:54 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-0Qm4cS31E?U2MewQAFE38WNC1eJuwvTbm?i?kYymZzB



4x6 =

Scale = 1:14.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 19 lb	FT = 20%

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

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

REACTIONS. (size) 2=4-6-8, 4=4-6-8, 6=4-6-8
 Max Horz 2=-82(LC 10)
 Max Uplift 2=-89(LC 12), 4=-100(LC 13), 6=-29(LC 12)
 Max Grav 2=132(LC 1), 4=138(LC 20), 6=161(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=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 4=100.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 19, 2020

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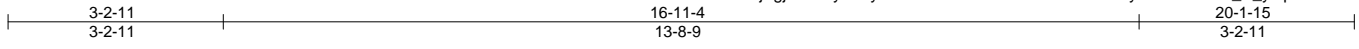
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



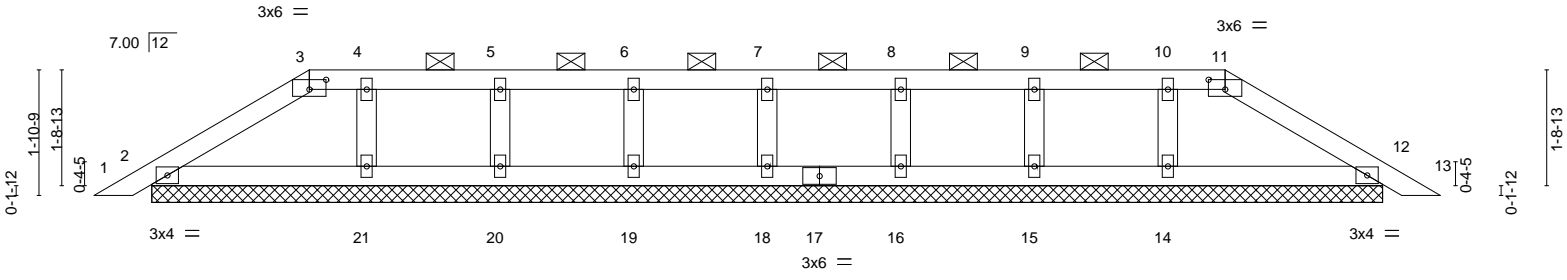
818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478035
2434707_MASTER	PB12	GABLE	3	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:56 2020 Page 1
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Scale = 1:34.5



20-1-15
20-1-15

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	12	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
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 18-5-3.
 (lb) - Max Horz 2=77(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 16 except 2=-109(LC 12), 12=-116(LC 13), 20=-117(LC 8), 21=-116(LC 9), 15=-113(LC 9), 14=-104(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 12, 20, 21, 16, 15, 14

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=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 19, 16 except (jt=lb) 2=109, 12=116, 20=117, 21=116, 15=113, 14=104.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

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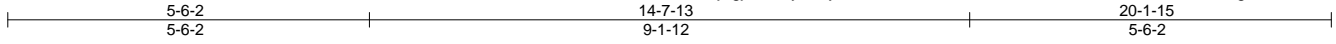
Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478036
2434707_MASTER	PB13	GABLE	3	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:57 2020 Page 1

ID:Tgj18SwfyF8hyT9h0Yt9kzZiYQ-R?SDFU6vWwsdD6e?rNnm8?idsKg7FU1SzwfLtmZz8

Job Reference (optional)



Scale = 1:35.1

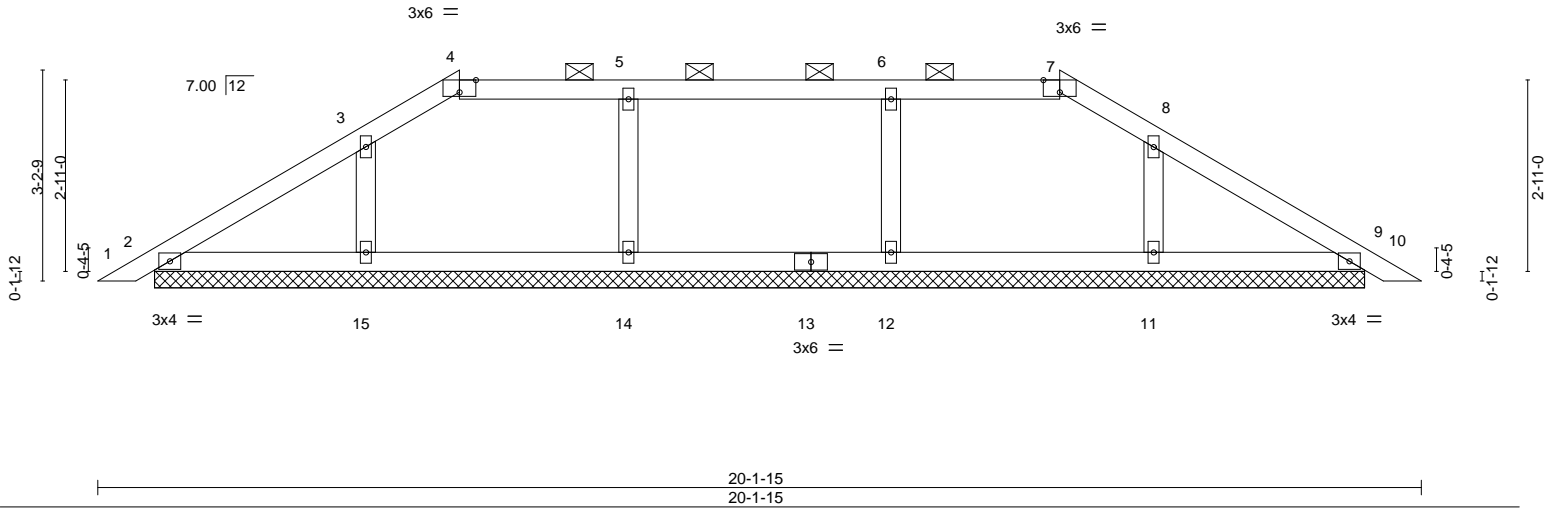


Plate Offsets (X,Y)--	[4:0-3-0,Edge], [7:0-3-0,Edge], [8:0-0-0,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) 0.00 10 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) 0.00 10 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 72 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.): 4-7.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-5-3.
 (lb) - Max Horz 2=132(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 9 except 14=171(LC 9), 15=202(LC 12), 12=170(LC 9), 11=195(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 14=310(LC 23), 15=326(LC 19), 12=310(LC 24), 11=318(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-15=-280/236, 8-11=-282/229

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 14=171, 15=202, 12=170, 11=195.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



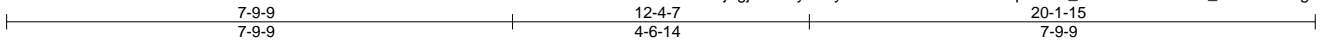
August 19, 2020

Job 2434707_MASTER	Truss PB14	Truss Type GABLE	Qty 3	Ply 1	H&H/Calabash/ Job Reference (optional)	142478037
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:58 2020 Page 1

ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-vB0bSp6XHE_UrGDBP4I?JMYS_FeRsiLAhdgCtJymZz7



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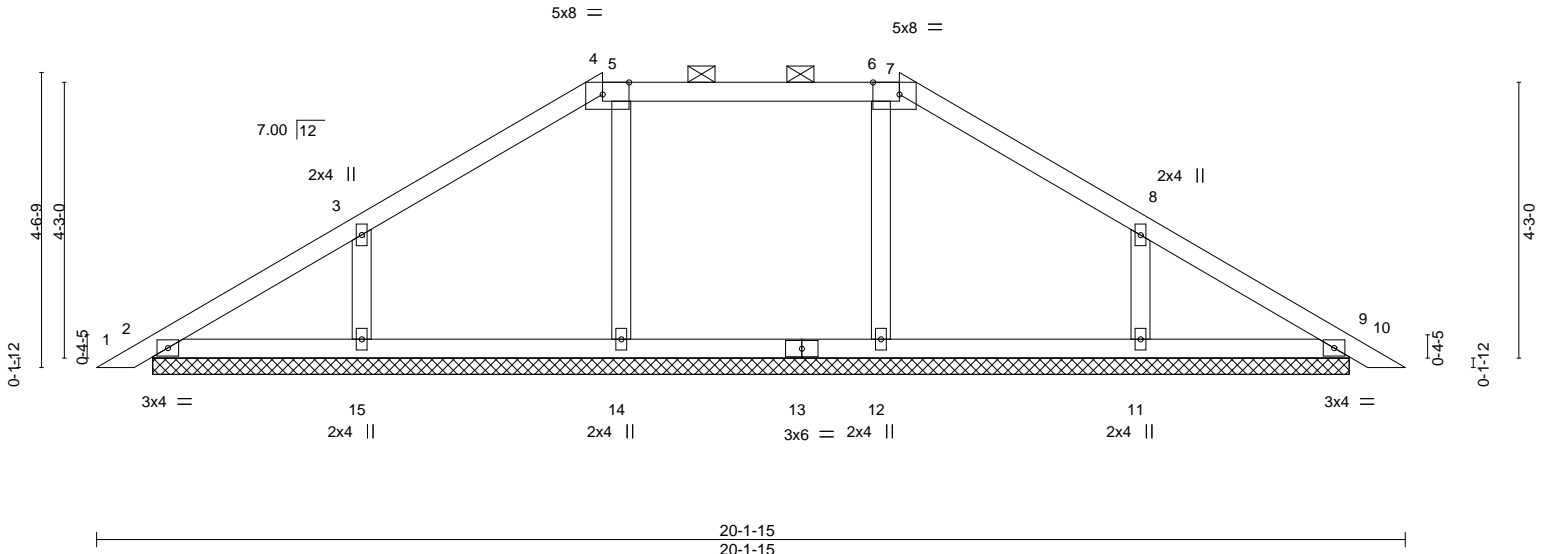


Plate Offsets (X,Y)--	[4:0-0-0,0-1-2], [4:0-4-14,Edge], [5:0-1-12,0-0-0], [6:0-1-12,0-0-0], [7:0-0-0,0-1-2], [7:0-4-14,Edge], [8:0-0-0,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	0.00	10	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	0.00	10	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 77 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.): 4-7.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 18-5-3.
 (lb) - Max Horz 2=191(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 9 except 14=187(LC 9), 15=282(LC 12), 12=158(LC 8),
 11=278(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 14=359(LC 25), 15=383(LC 19), 12=359(LC 26),
 11=380(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-14=256/237, 3-15=372/320, 6-12=256/207, 8-11=373/316

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 14=187, 15=282, 12=158, 11=278.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

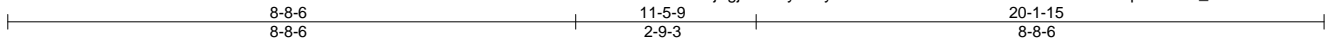
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2434707_MASTER	Truss PB15	Truss Type GABLE	Qty 3	Ply 1	H&H/Calabash/ Job Reference (optional)	142478038
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:33:59 2020 Page 1

ID:Tgj18SwfyF8hyT9h0Y19kzZiYQ-NNazf9792Y6LTPoNzopErZ407f_eb8WKwHPmPmymZz6



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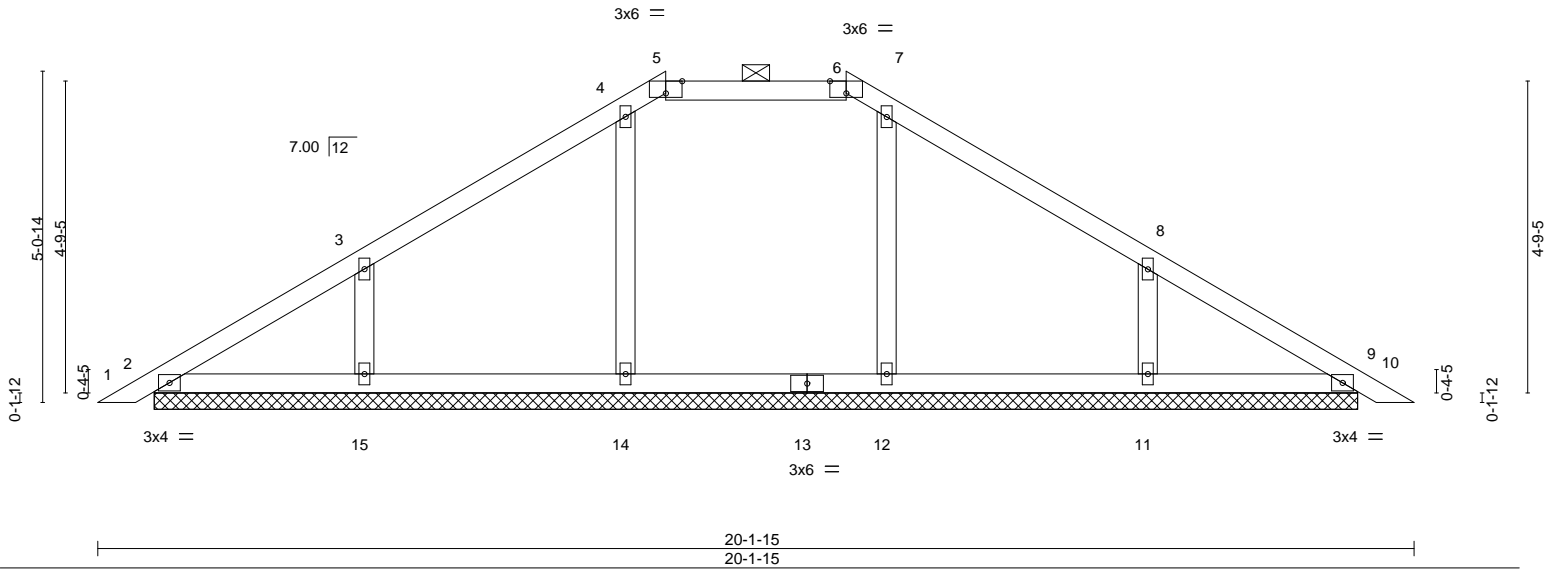


Plate Offsets (X,Y)-- [5:0-3-0,Edge], [6:0-3-0,Edge], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	0.00	10	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	0.00	10	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 78 lb	FT = 20%

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

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

REACTIONS. All bearings 18-5-3.
(lb) - Max Horz 2=-215(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 9 except 14=-145(LC 12), 15=-297(LC 12), 12=-121(LC 13), 11=-299(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 14=385(LC 19), 15=383(LC 19), 12=358(LC 20), 11=386(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-15=-392/336, 8-11=-392/339

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 4-0-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 14=145, 15=297, 12=121, 11=299.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

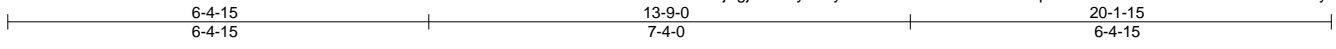
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478039
2434707_MASTER	PB16	GABLE	3	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:34:00 2020 Page 1
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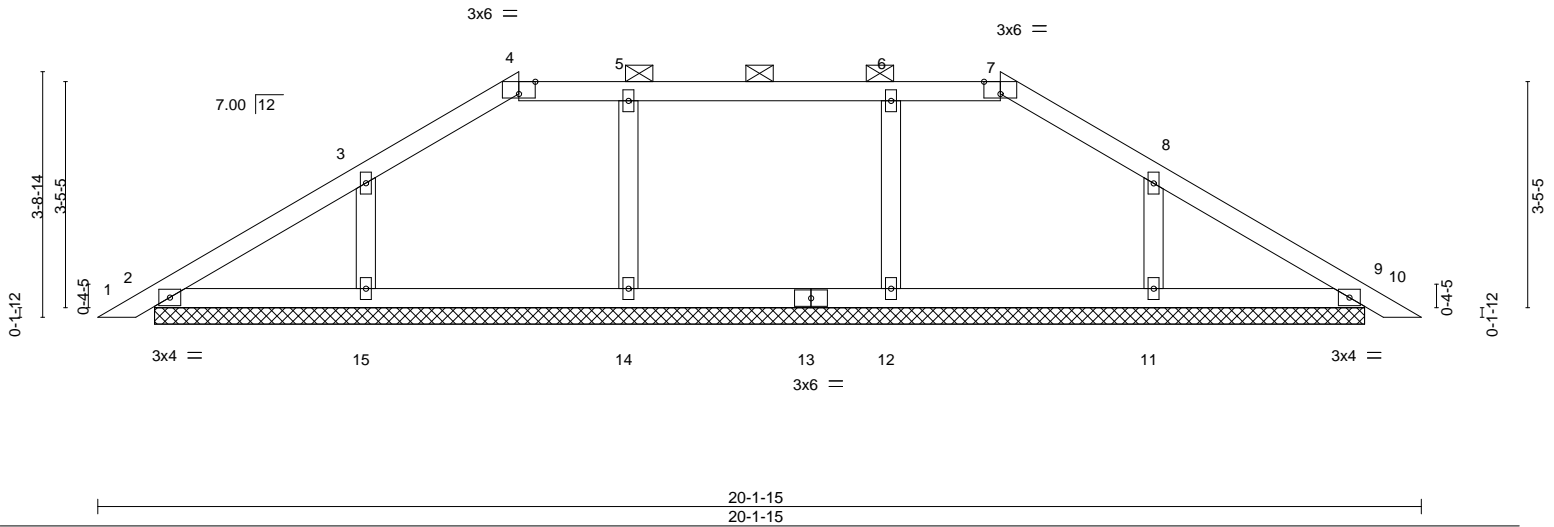


Plate Offsets (X,Y)-- [4:0-3-0,Edge], [7:0-3-0,Edge], [8:0-0-0,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	0.00	10	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	0.00	10	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 74 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-5-3.
 (lb) - Max Horz 2=155(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 9 except 14=176(LC 9), 15=233(LC 12), 12=171(LC 8), 11=229(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 14=311(LC 23), 15=350(LC 19), 12=311(LC 24), 11=345(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-15=309/269, 8-11=310/264

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 14=176, 15=233, 12=171, 11=229.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

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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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

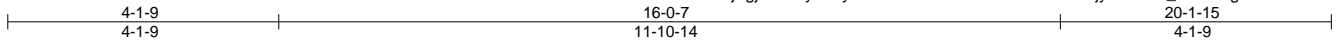
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 2434707_MASTER	Truss PB17	Truss Type GABLE	Qty 3	Ply 1	H&H/Calabash/ Job Reference (optional)	142478040
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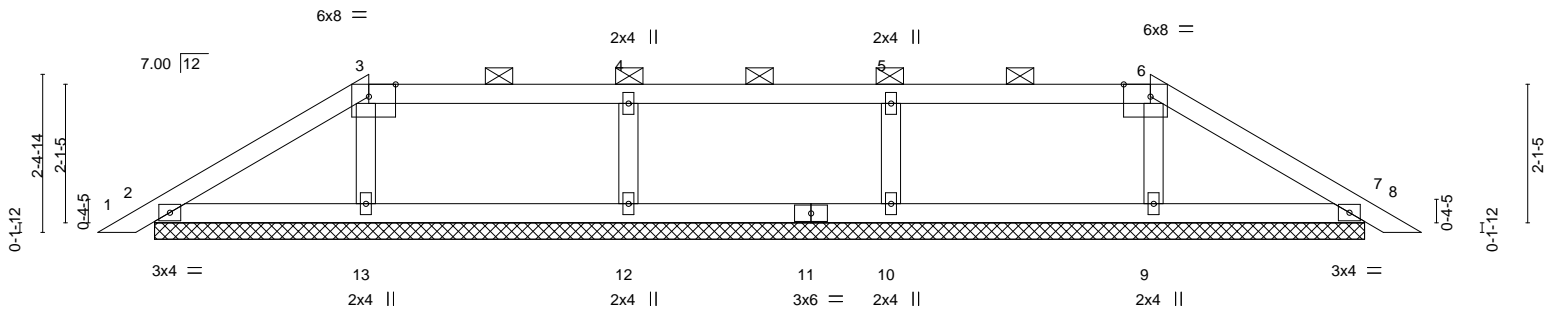
Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:34:01 2020 Page 1

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Scale = 1:35.1



20-1-15
20-1-15

Plate Offsets (X,Y)-- [3:0-4-14,Edge], [6:0-4-14,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	0.00	8	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	0.00	8	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 68 lb	FT = 20%

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

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

REACTIONS. All bearings 18-5-3.
(lb) - Max Horz 2=97(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 12=203(LC 8), 13=126(LC 9), 7=107(LC 13), 10=202(LC 9), 9=103(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2, 7 except 12=336(LC 24), 13=293(LC 23), 10=336(LC 23), 9=293(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-12=-255/249, 5-10=-255/249

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (it=lb) 12=203, 13=126, 7=107, 10=202, 9=103.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

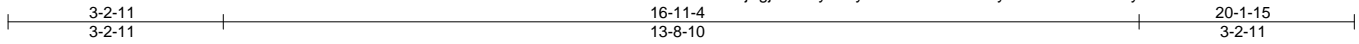
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	142478041
2434707_MASTER	PB18	GABLE	3	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:34:02 2020 Page 1
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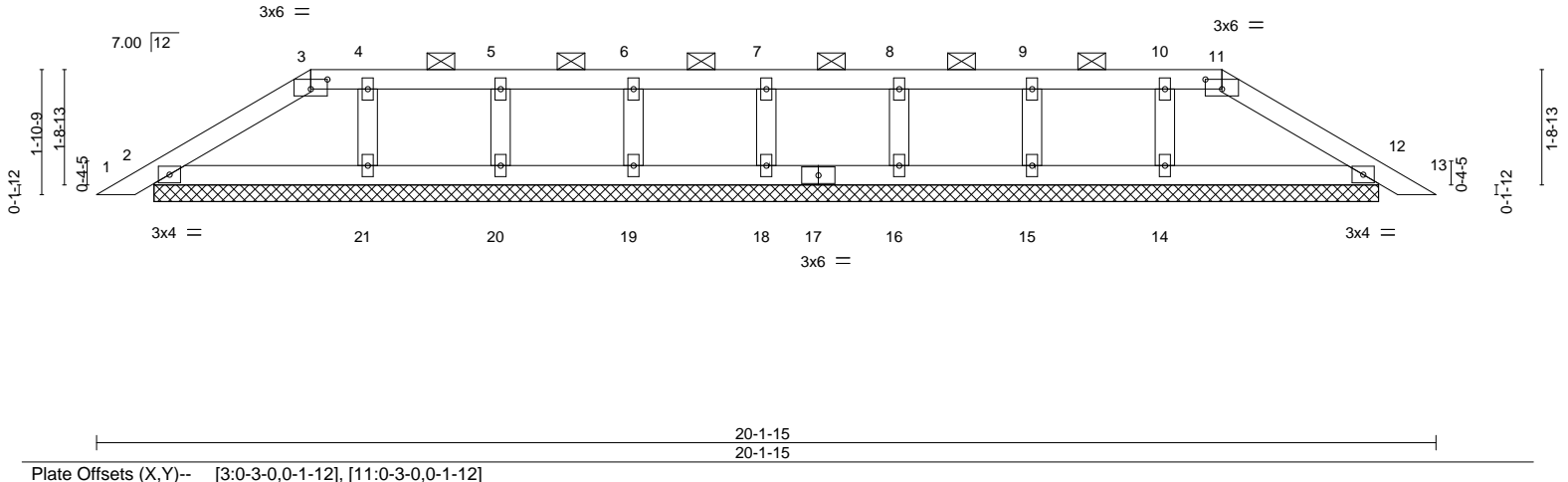


Plate Offsets (X,Y)--	[3:0-3-0,0-1-12], [11:0-3-0,0-1-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) 0.00 13 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 13 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 71 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.): 3-11.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-5-3.
 (lb) - Max Horz 2=77(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 16 except 2=-109(LC 12), 20=-117(LC 8), 21=-116(LC 9),
 15=-113(LC 9), 14=-104(LC 8), 12=-116(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 16, 15, 14, 12

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

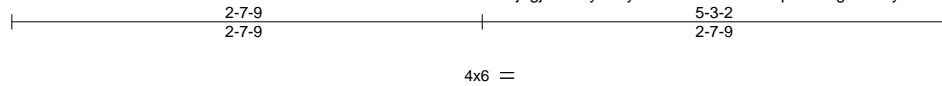
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 19, 16 except (jt=lb) 2=109, 20=117, 21=116, 15=113, 14=104, 12=116.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



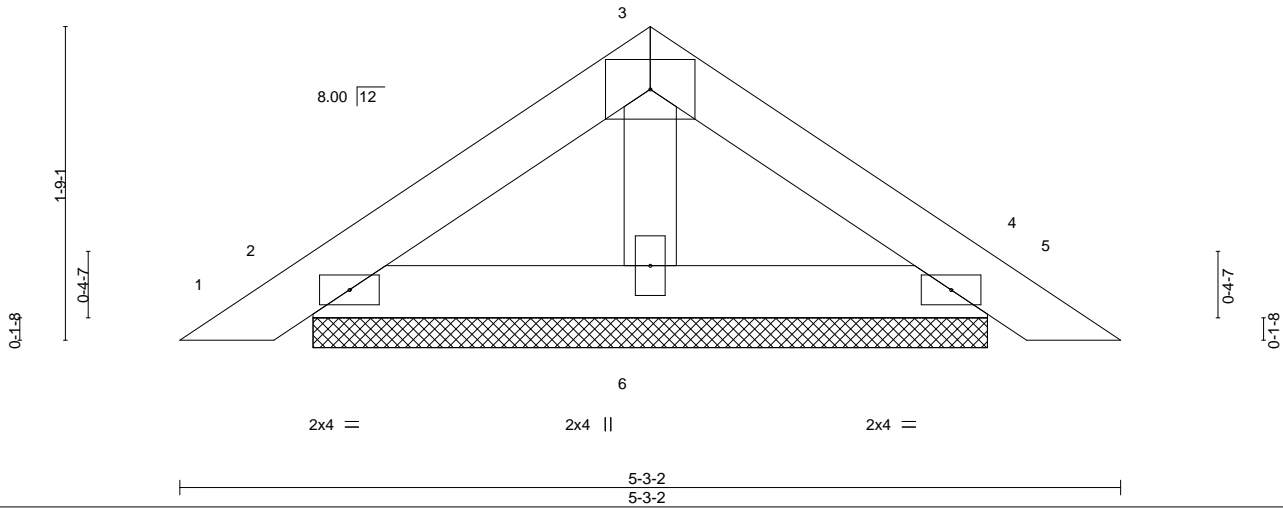
Job 2434707_MASTER	Truss PB19	Truss Type GABLE	Qty 5	Ply 1	H&H/Calabash/ Job Reference (optional)	142478042
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:34:03 2020 Page 1
ID:jTgj18SwfyF8hyT9h0Yt9kzZiYQ-G8pUVXAg6mdmy168CeuA0PFkNGOFXznrvNzYXymZz2



Scale = 1:12.9



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 0.08	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P							
									Weight: 16 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 5-3-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=3-9-4, 4=3-9-4, 6=3-9-4
Max Horz 2=-70(LC 10)
Max Uplift 2=-78(LC 12), 4=-87(LC 13), 6=-22(LC 12)
Max Grav 2=113(LC 1), 4=119(LC 20), 6=132(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=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 19, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

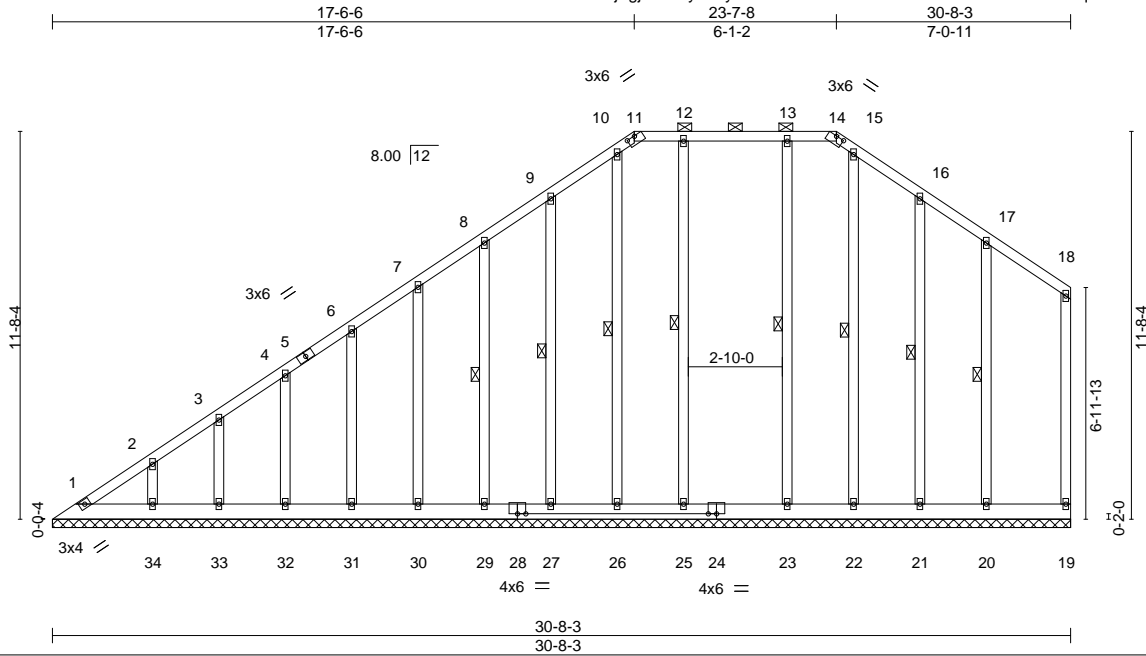


818 Soundside Road
Edenton, NC 27932

Job 2434707_MASTER	Truss V01	Truss Type GABLE	Qty 15	Ply 1	H&H/Calabash/ Job Reference (optional)	I42478043
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:34:05 2020 Page 1
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Scale = 1:69.4

Plate Offsets (X,Y)--	[11:0-3-0,0-0-2], [14:0-3-0,0-0-2]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.18	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 19 n/a n/a		
	Code IRC2015/TPI2014			Weight: 273 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.): 11-14.
BOT CHORD 2x6 SP No.2 *Except* 24-28: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 27-29,23-25.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 12-25, 10-26, 9-27, 8-29, 13-23, 15-22, 16-21, 17-20
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 30-8-3.
 (lb) - Max Horz 1=602(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 26 except 1=-190(LC 10), 25=-132(LC 9), 27=-173(LC 12), 29=-150(LC 12), 30=-153(LC 12), 31=-152(LC 12), 32=-155(LC 12), 33=-141(LC 12), 34=-211(LC 12), 23=-126(LC 9), 21=-172(LC 13), 20=-187(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 19, 25, 26, 27, 29, 30, 31, 32, 33, 22, 21 except 1=348(LC 12), 34=251(LC 19), 23=261(LC 26), 20=288(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-679/446, 2-3=-537/388, 3-4=-430/351, 4-6=-336/310, 6-7=-273/270, 8-9=-206/280, 9-10=-260/356, 10-11=-242/295, 11-12=-254/322, 12-13=-254/322, 13-14=-254/322, 14-15=-242/295, 15-16=-260/320

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 26 except (jt=lb) 1=190, 25=132, 27=173, 29=150, 30=153, 31=152, 32=155, 33=141, 34=211, 23=126, 21=172, 20=187.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 25, 26, 27.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

Job 2434707_MASTER	Truss V02	Truss Type GABLE	Qty 6	Ply 1	H&H/Calabash/ Job Reference (optional)	142478044
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:34:07 2020 Page 1

ID: jTgj18SwfyF8hyT9h0Yt9kzZiYQ-8w3?LuDBA?7CQePwRTz6AFQPrukNTI4VmXLbhlymZz_

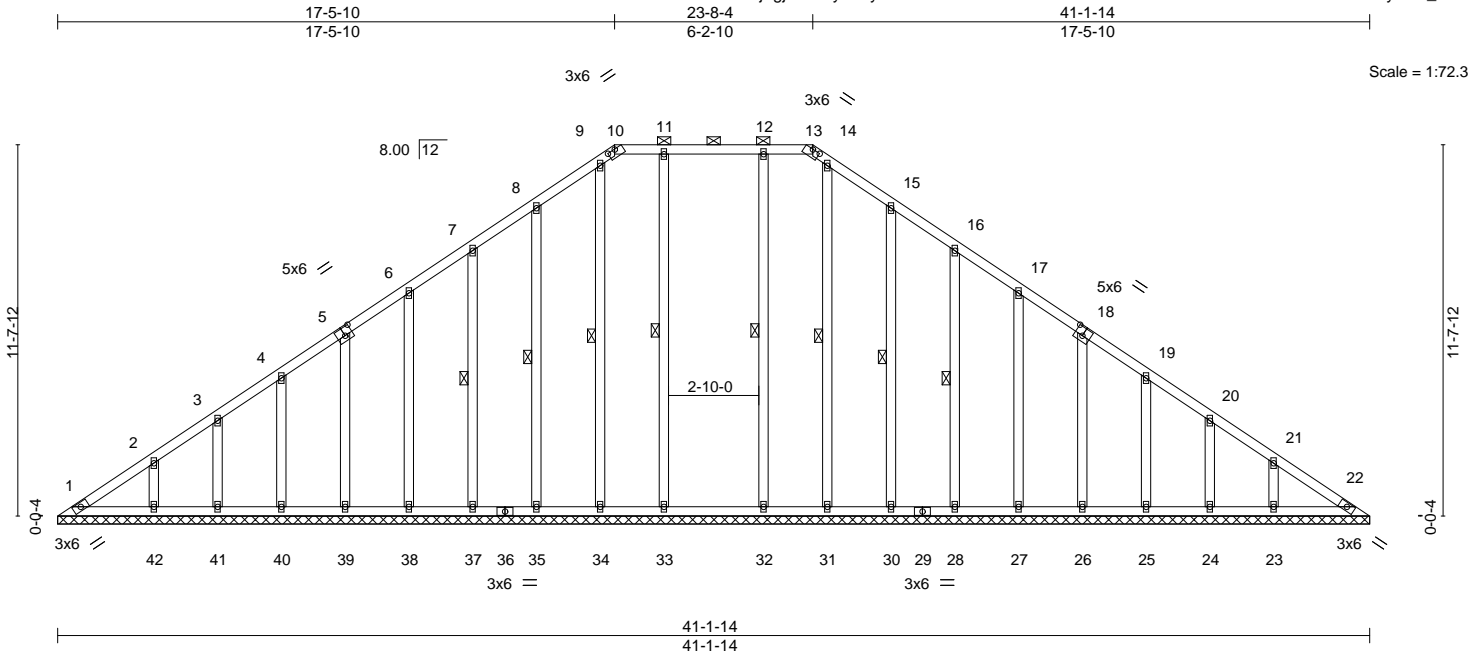


Plate Offsets (X,Y)--	[5:0-3-0,0-3-0], [10:0-3-0,0-0-2], [13:0-3-0,0-0-2], [18:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.02	22	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 310 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 2-0-0 oc purlins (6-0-0 max.): 10-13.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 11-33, 9-34, 8-35, 7-37, 12-32, 14-31, 15-30, 16-28

REACTIONS. All bearings 41-1-14.
 (lb) - Max Horz 1=-504(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 34, 22 except 1=-154(LC 10), 33=-121(LC 9), 35=-178(LC 12), 37=-150(LC 12), 38=-157(LC 12), 39=-151(LC 12), 40=-150(LC 12), 41=-138(LC 12), 42=-203(LC 12), 32=-121(LC 9), 30=-184(LC 13), 28=-149(LC 13), 27=-157(LC 13), 26=-151(LC 13), 25=-150(LC 13), 24=-138(LC 13), 23=-203(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 34, 35, 37, 38, 39, 40, 41, 22, 31, 30, 28, 27, 26, 25, 24 except 33=251(LC 25), 42=260(LC 19), 32=251(LC 26), 23=260(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-530/412, 2-3=-389/354, 3-4=-324/319, 4-5=-275/283, 5-6=-244/276, 6-7=-212/323, 7-8=-287/385, 8-9=-391/462, 9-10=-332/393, 10-11=-357/429, 11-12=-357/429, 12-13=-357/429, 13-14=-332/393, 14-15=-391/458, 15-16=-287/337, 20-21=-258/160, 21-22=-399/277
 BOT CHORD 1-42=-258/379, 41-42=-258/379, 40-41=-258/379, 39-40=-258/379, 38-39=-261/381, 37-38=-261/381, 35-37=-261/381, 34-35=-261/381, 33-34=-261/381, 32-33=-261/381, 31-32=-261/381, 30-31=-261/381, 28-30=-261/381, 27-28=-261/381, 26-27=-261/381, 25-26=-258/378, 24-25=-258/378, 23-24=-258/378, 22-23=-258/378
 WEBS 2-42=-253/223, 21-23=-253/223

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 34, 22 except (jt=lb) 1=154, 33=121, 35=178, 37=150, 38=157, 39=151, 40=150, 41=138, 42=203, 32=121, 30=184, 28=149, 27=157, 26=151, 25=150, 24=138, 23=203.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

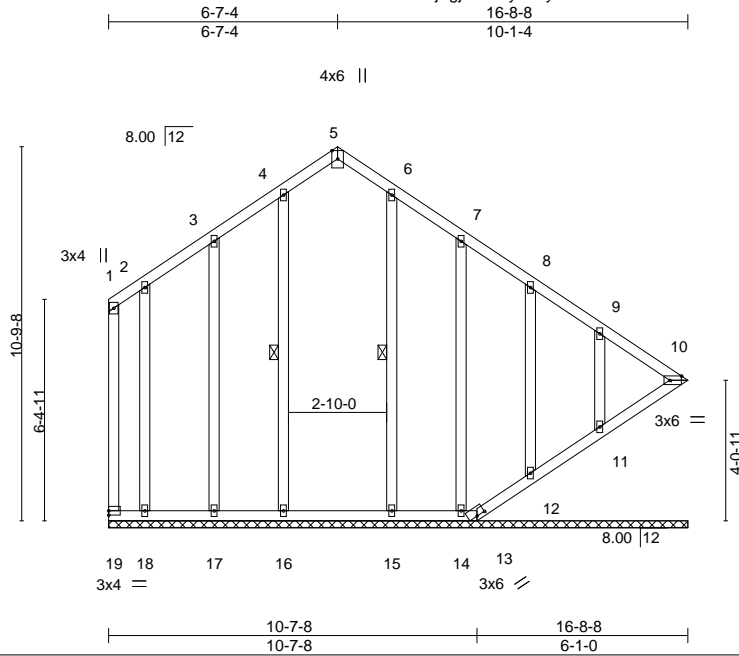


August 19, 2020

Job	Truss	Truss Type	Qty	Ply	H&H/Calabash/	I42478045
2434707_MASTER	V03	GABLE	1	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:34:08 2020 Page 1
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Scale = 1:66.5

Plate Offsets (X,Y)--	[10:0-4-1,Edge], [13:0-3-0,0-0-2]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 139 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	WEBS 1 Row at midpt 4-16, 6-15
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 16-8-8.
 (lb) - Max Horz 19=-533(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 16 except 10=-383(LC 9), 13=-238(LC 10), 17=-224(LC 12), 18=-111(LC 9), 15=-171(LC 10), 14=-236(LC 13), 12=-129(LC 13), 11=-189(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 19, 13, 17, 18, 14, 12, 11 except 10=514(LC 10), 16=306(LC 20), 15=403(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-264/289, 2-3=-282/312, 3-4=-428/489, 4-5=-351/387, 5-6=-351/387, 6-7=-428/489, 7-8=-376/348, 8-9=-414/365, 9-10=-448/376
 BOT CHORD 18-19=-309/377, 17-18=-309/377, 16-17=-309/377, 15-16=-309/377, 14-15=-309/377, 13-14=-309/377, 12-13=-377/467, 11-12=-377/466, 10-11=-380/465
 WEBS 3-17=-303/295, 6-15=-286/228, 7-14=-299/293

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 16 except (jt=lb) 10=383, 13=238, 17=224, 18=111, 15=171, 14=236, 12=129, 11=189.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 12, 11.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



August 19,2020

Job 2434707_MASTER	Truss V04	Truss Type GABLE	Qty 1	Ply 1	H&H/Calabash/ Job Reference (optional)	142478046
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:34:09 2020 Page 1
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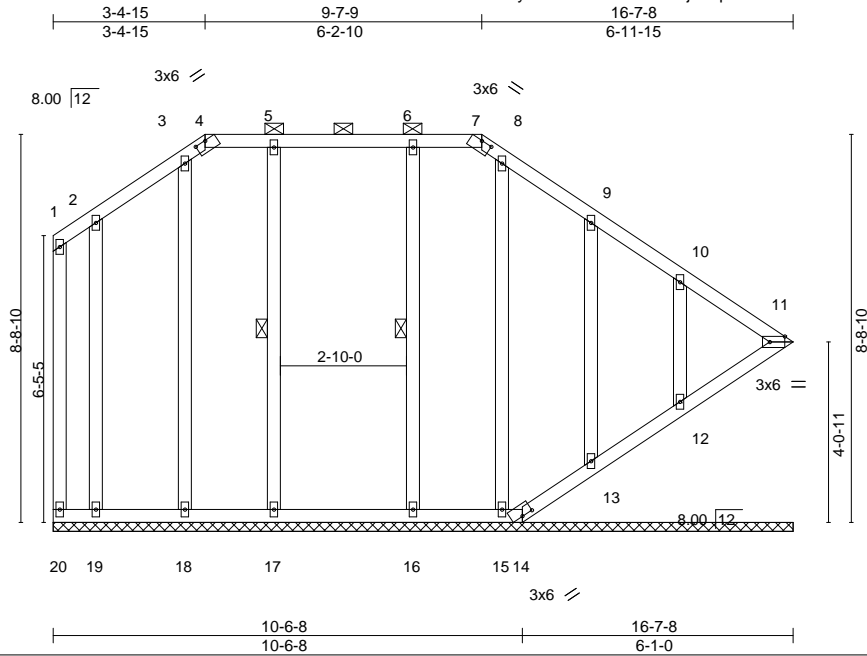


Plate Offsets (X, Y)--	[4:0-3-0,0-0-2], [7:0-3-0,0-0-2], [11:0-4-1,Edge], [14:0-3-0,0-0-2]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.01 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 133 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.): 4-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: 11-12.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 5-17, 6-16

REACTIONS. All bearings 16-7-8.
 (lb) - Max Horz 20=-227(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 18, 15 except 11=-137(LC 11), 14=-143(LC 13), 17=-129(LC 8), 19=-139(LC 12), 16=-126(LC 8), 13=-155(LC 13), 12=-185(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 20, 11, 14, 18, 19, 15, 13, 12 except 17=251(LC 26), 16=256(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 13-14=-196/280, 12-13=-196/278, 11-12=-203/282

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 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 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 18, 15 except (jt=lb) 11=137, 14=143, 17=129, 19=139, 16=126, 13=155, 12=185.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 13, 12.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2020

Job 2434707_MASTER	Truss V06	Truss Type GABLE	Qty 5	Ply 1	H&H/Calabash/ Job Reference (optional)	142478048
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Aug 18 15:34:13 2020 Page 1
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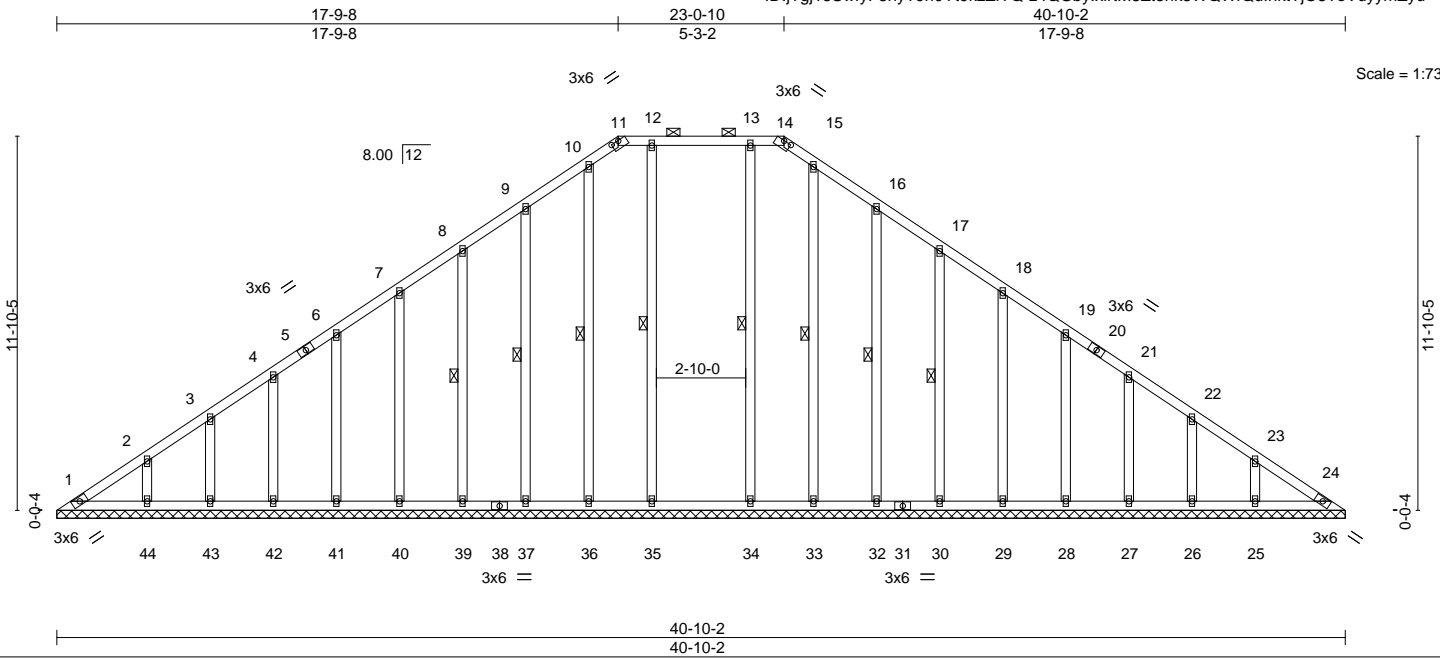


Plate Offsets (X,Y)--	[11:0-3-0,0-0-2], [14:0-3-0,0-0-2]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.03 24 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 307 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 2-0-0 oc purlins (6-0-0 max.): 11-14.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 12-35, 10-36, 9-37, 8-39, 13-34, 15-33, 16-32, 17-30

REACTIONS. All bearings 40-10-2.
 (lb) - Max Horz 1=-514(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 36, 24 except 1=-158(LC 10), 35=-116(LC 9), 37=-181(LC 12), 39=-149(LC 12), 40=-153(LC 12), 41=-152(LC 12), 42=-155(LC 12), 43=-140(LC 12), 44=-194(LC 12), 34=-102(LC 9), 32=-190(LC 13), 30=-148(LC 13), 29=-153(LC 13), 28=-152(LC 13), 27=-155(LC 13), 26=-140(LC 13), 25=-194(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 36, 37, 39, 40, 41, 42, 43, 44, 33, 32, 30, 29, 28, 27, 26, 25, 24 except 1=271(LC 12), 35=268(LC 22), 34=261(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-569/411, 2-3=-435/356, 3-4=-345/320, 4-6=-281/279, 6-7=-248/260, 7-8=-217/285, 8-9=-249/345, 9-10=-355/427, 10-11=-345/400, 11-12=-344/409, 12-13=-344/409, 13-14=-344/409, 14-15=-345/400, 15-16=-355/412, 16-17=-249/287, 22-23=-312/201, 23-24=-447/313
 BOT CHORD 1-44=-286/415, 43-44=-286/415, 42-43=-286/415, 41-42=-286/415, 40-41=-286/415, 39-40=-286/415, 37-39=-286/415, 36-37=-286/415, 35-36=-286/415, 34-35=-286/415, 33-34=-286/415, 32-33=-286/415, 30-32=-286/415, 29-30=-286/415, 28-29=-286/415, 27-28=-286/415, 26-27=-286/415, 25-26=-286/415, 24-25=-286/415

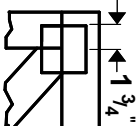
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for 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 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 24 except (jt=lb) 1=158, 35=116, 37=181, 39=149, 40=153, 41=152, 42=155, 43=140, 44=194, 34=102, 32=190, 30=148, 29=153, 28=152, 27=155, 26=140, 25=194.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



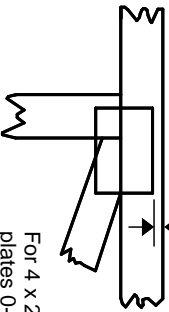
August 19, 2020

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

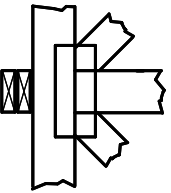
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



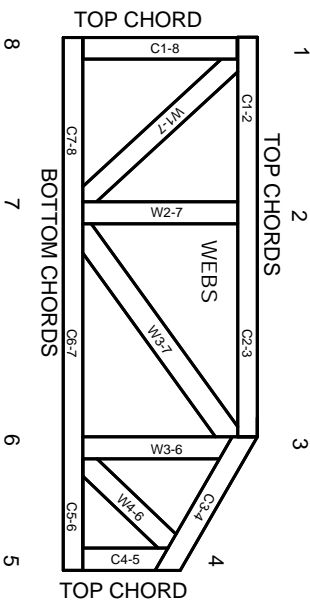
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



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 T or 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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.