

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 2100826-2100826A
1393 Walker RD Castio

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I49989235 thru I49989275

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



February 1, 2022

Strzyzewski, Marvin

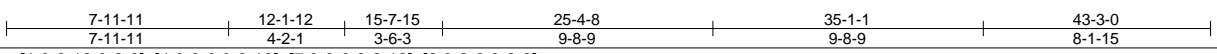
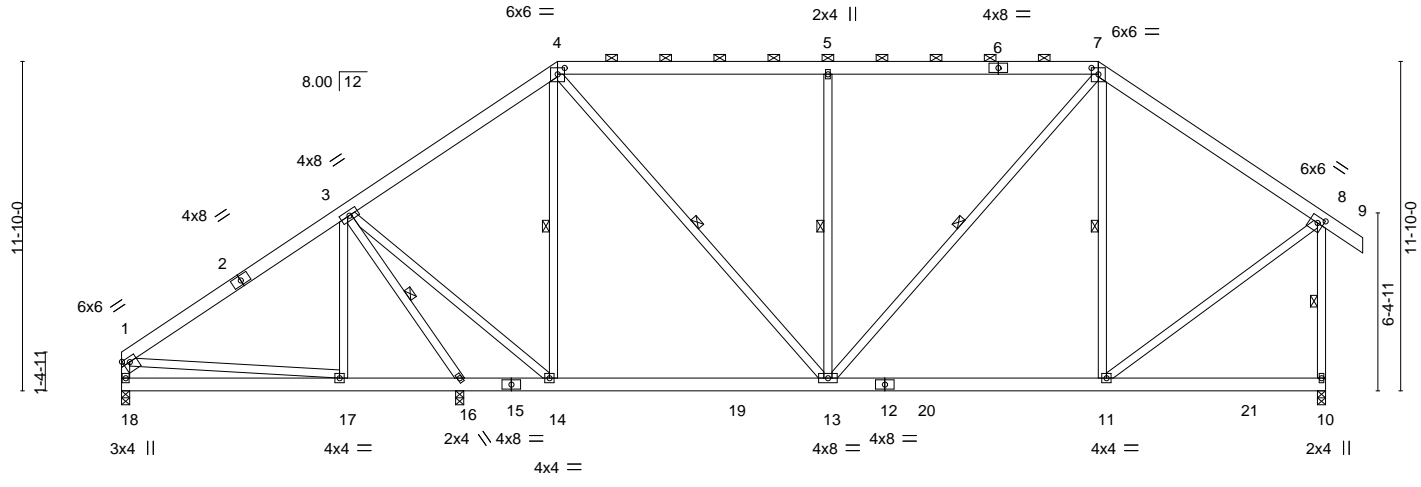
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.

Job 2100826-2100826A	Truss A	Truss Type Piggyback Base	Qty 1	Ply 1	1393 Walker RD Castio	149989235
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84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:17 2022 Page 1
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Scale = 1:82.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.09 13-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.47	Vert(CT) -0.18 13-14 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 377 lb	FT = 20%

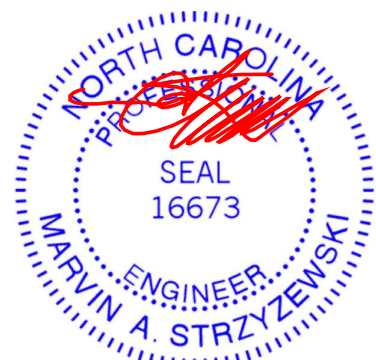
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except* 4-13,7-13: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 3-16, 4-14, 4-13, 5-13, 7-13, 7-11, 8-10

REACTIONS. (size) 18=0-3-8, 16=0-3-8, 10=0-3-8
 Max Horz 18=366(LC 11)
 Max Uplift 18=45(LC 12), 16=139(LC 12), 10=99(LC 13)
 Max Grav 18=806(LC 1), 16=1270(LC 1), 10=1531(LC 2)

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

TOP CHORD	1-3=-938/178, 3-4=-961/300, 4-5=-1142/404, 5-7=-1142/404, 7-8=-1084/323, 1-18=-722/162, 8-10=-1415/337
BOT CHORD	17-18=-331/478, 16-17=-232/784, 14-16=-275/188, 13-14=-207/705, 11-13=-131/815
WEBS	3-16=-1430/313, 3-14=-94/1085, 4-14=-524/175, 4-13=-180/701, 5-13=-670/308, 7-13=-188/550, 7-11=-373/179, 1-17=-48/495, 8-11=-98/1002

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18, 16, and 10. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



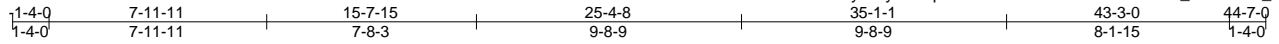
February 1, 2022

Job 2100826-2100826A	Truss A1	Truss Type Piggyback Base	Qty 1	Ply 1	1393 Walker RD Castio	149989236
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:18 2022 Page 1

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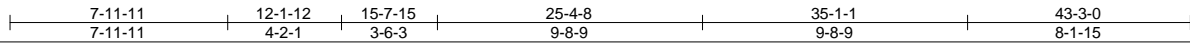
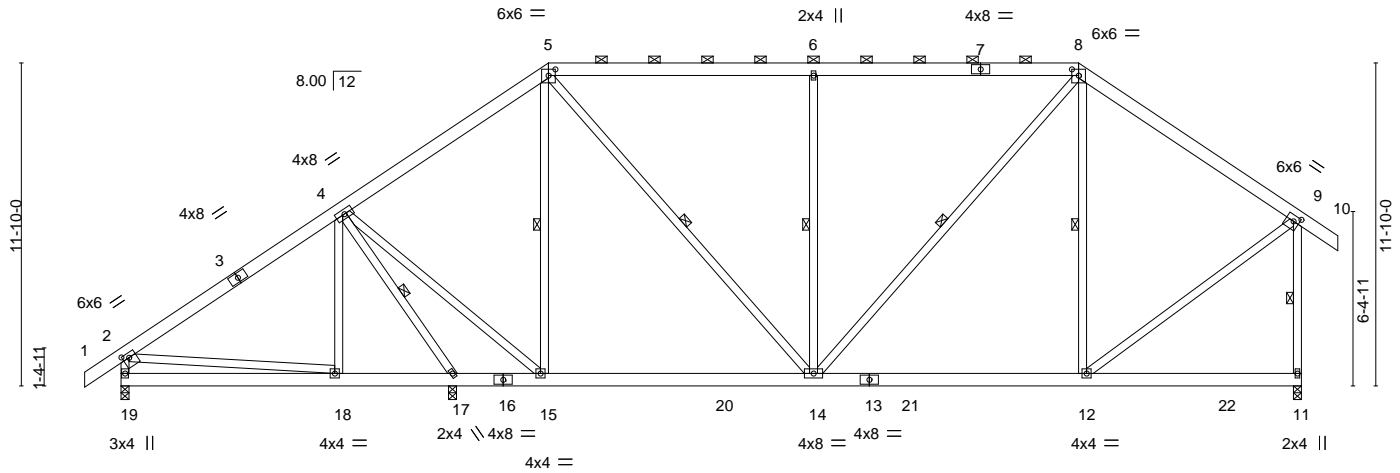
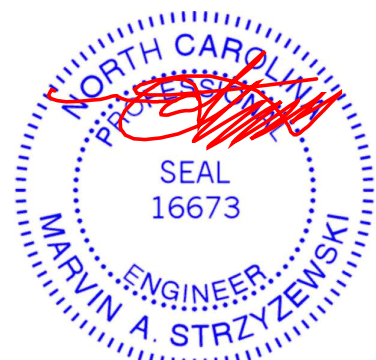


Plate Offsets (X, Y)--	[2:0-2-12,0-2-0], [5:0-3-0,0-2-12], [8:0-3-0,0-2-12], [9:0-2-8,0-2-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.09 14-15 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.18 14-15 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.02 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 381 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, and 2-0-0 oc purlins (6-0-0 max.): 5-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-17.
WEBS 2x4 SP No.3 *Except* 5-14,8-14: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 4-17, 5-15, 5-14, 6-14, 8-14, 8-12, 9-11
REACTIONS. (size) 19=0-3-8, 17=0-3-8, 11=0-3-8 Max Horz 19=382(LC 11) Max Uplift 19=80(LC 12), 17=133(LC 12), 11=100(LC 13) Max Grav 19=903(LC 1), 17=1261(LC 1), 11=1532(LC 2)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-940/185, 4-5=-962/304, 5-6=-1143/406, 6-8=-1143/406, 8-9=-1085/324, 2-19=-818/233, 9-11=-1416/338
BOT CHORD 18-19=-350/519, 17-18=-234/780, 15-17=-275/188, 14-15=-208/707, 12-14=-132/816
WEBS 4-17=-1421/308, 4-15=-92/1086, 5-15=-525/173, 5-14=-180/700, 6-14=-670/307, 8-14=-189/551, 8-12=-374/179, 2-18=-50/491, 9-12=-99/1003

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19, 17, and 11. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 1, 2022

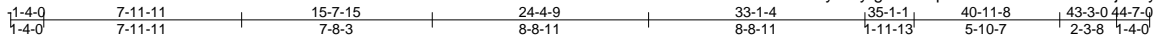
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	1393 Walker RD Castio	149989237
2100826-2100826A	A2	Piggyback Base	2	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

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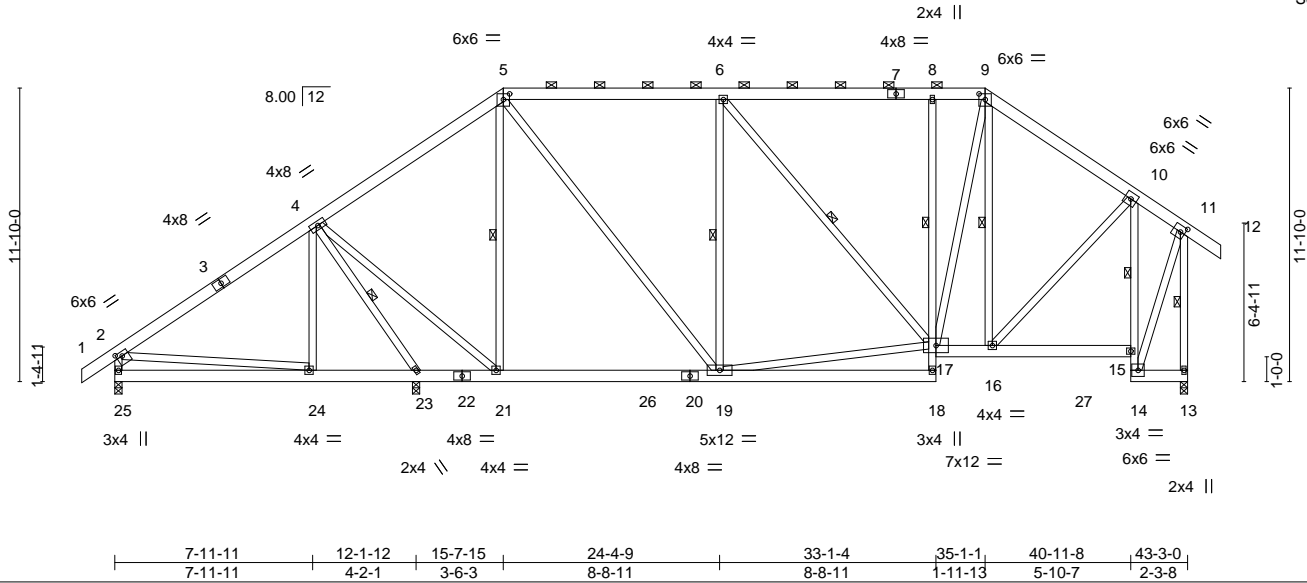


Plate Offsets (X, Y)--	[2:0-2-12,0-2-0], [5:0-3-0,0-2-12], [9:0-3-0,0-2-12], [11:0-2-3,0-3-0]
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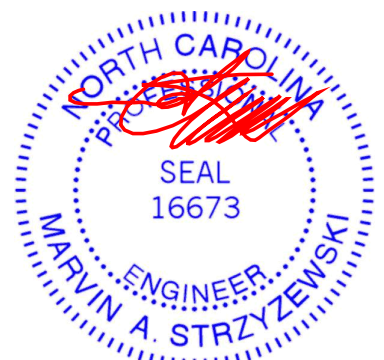
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) -0.09 19-21 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.62	Vert(CT) -0.16 19-21 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 13 n/a n/a		
	Code IRC2015/TPI2014			Weight: 437 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, and 2-0-0 oc purlins (6-0-0 max.): 5-9.
BOT CHORD 2x6 SP No.2 *Except* 8-18,10-14: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-23 4-1-7 oc bracing: 14-15.
WEBS 2x4 SP No.3 *Except* 5-19,6-17: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 8-17, 10-15 1 Row at midpt 4-23, 5-21, 6-19, 6-17, 9-16, 11-13

REACTIONS.
(size) 25=0-3-8, 13=0-3-8, 23=0-3-8
Max Horz 25=382(LC 11)
Max Uplift 25=-91(LC 12), 13=-100(LC 13), 23=-118(LC 12)
Max Grav 25=858(LC 23), 13=1431(LC 1), 23=1329(LC 1)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-873/200, 4-5=-857/317, 5-6=-1023/407, 6-8=-916/373, 8-9=-915/372, 9-10=-1068/346, 10-11=-479/227, 2-25=-774/243, 11-13=-1480/322
BOT CHORD 24-25=-349/513, 23-24=-234/695, 21-23=-337/167, 19-21=-209/611, 8-17=-368/184, 16-17=-143/805, 15-16=-117/384, 14-15=-985/199, 10-15=-973/242
WEBS 4-23=-1431/323, 4-21=-105/1077, 5-21=-587/168, 5-19=-171/733, 6-19=-476/253, 17-19=-220/804, 9-17=-218/617, 10-16=-123/615, 2-24=-65/415, 11-14=-202/1132

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 25, 13, and 23. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 1, 2022

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

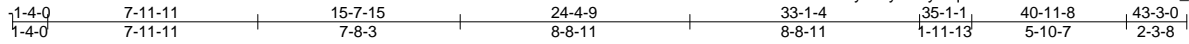
818 Soundside Road
 Edenton, NC 27932

Job 2100826-2100826A	Truss A2A	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989238
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:21 2022 Page 1

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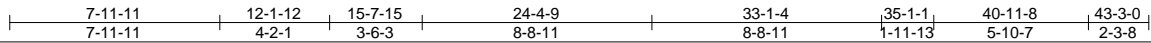
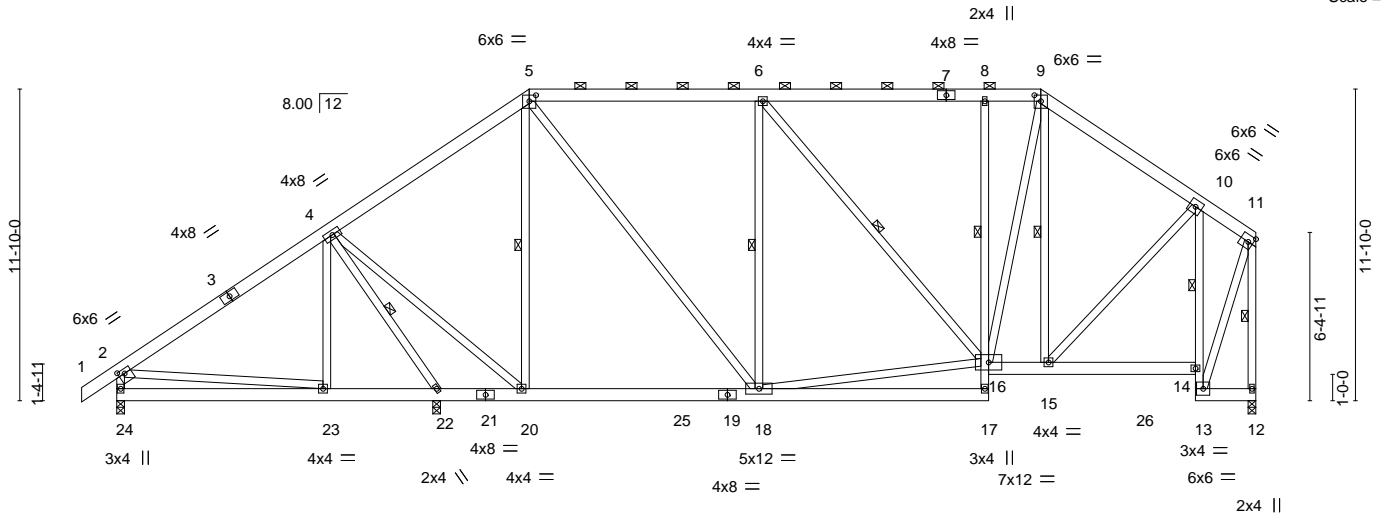


Plate Offsets (X, Y)--	[2:0-2-12,0-2-0], [5:0-3-0,0-2-12], [9:0-3-0,0-2-12]
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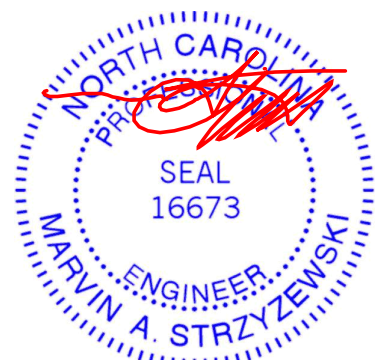
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.09	18-20	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.16	18-20	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	0.07	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 433 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, and 2-0-0 oc purlins (6-0-0 max.): 5-9.
BOT CHORD 2x6 SP No.2 *Except* 8-17,10-13; 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-22 4-0-1 oc bracing: 13-14.
WEBS 2x4 SP No.3 *Except* 5-18,6-16: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 8-16, 10-14 4-22, 5-20, 6-18, 6-16, 9-15, 11-12

REACTIONS.
(size) 24=0-3-8, 12=0-3-8, 22=0-3-8
Max Horz 24=374(LC 11)
Max Uplift 24=-87(LC 12), 12=-85(LC 8), 22=-121(LC 12)
Max Grav 24=858(LC 23), 12=1341(LC 1), 22=1329(LC 1)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-874/188, 4-5=-859/306, 5-6=-1026/397, 6-8=-921/363, 8-9=-920/362, 9-10=-1075/334, 10-11=-472/194, 2-24=-774/235, 11-12=-1392/267
BOT CHORD 23-24=-366/491, 22-23=-250/688, 20-22=-333/159, 18-20=-216/613, 8-16=-368/184, 15-16=-181/810, 14-15=-141/394, 13-14=-1011/260, 10-14=-1000/304
WEBS 4-22=-1432/336, 4-20=-116/1077, 5-20=-588/175, 5-18=-170/735, 6-18=-478/253, 16-18=-226/807, 9-16=-219/617, 10-15=-128/607, 2-23=-61/419, 11-13=-271/1162

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 24, 12, and 22. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 1, 2022

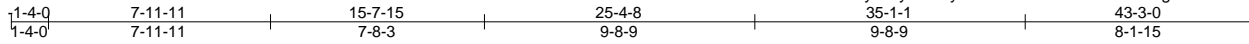
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>818 Soundside Road Edenton, NC 27932</p>
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Job 2100826-2100826A	Truss A3	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	1393 Walker RD Castio	149989239
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:22 2022 Page 1

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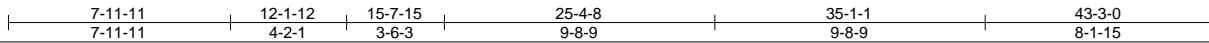
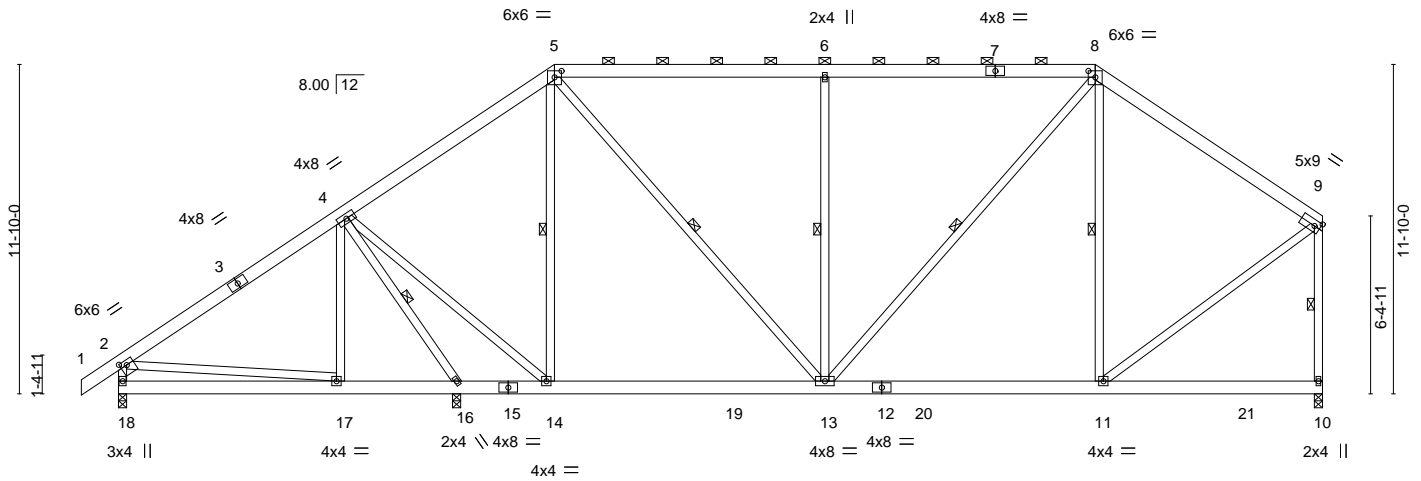


Plate Offsets (X, Y)--	[2:0-2-12,0-2-0], [5:0-3-0,0-2-12], [8:0-3-0,0-2-12]
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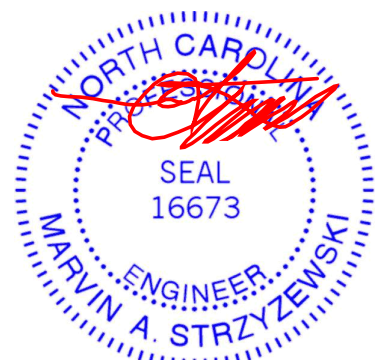
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.09 13-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.46	Vert(CT) -0.18 13-14 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 377 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, and 2-0-0 oc purlins (6-0-0 max.): 5-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except*	6-0-0 oc bracing: 14-16.
5-13,8-13: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 4-16, 5-14, 5-13, 6-13, 8-13, 8-11, 9-10

REACTIONS.
(size) 18=0-3-8, 16=0-3-8, 10=0-3-8
Max Horz 18=374(LC 9)
Max Uplift 18=77(LC 12), 16=135(LC 12), 10=81(LC 8)
Max Grav 18=905(LC 1), 16=1260(LC 1), 10=1457(LC 2)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-944/176, 4-5=-965/295, 5-6=-1146/397, 6-8=-1146/397, 8-9=-1064/308, 2-18=-821/227, 9-10=-1341/281
BOT CHORD 17-18=-368/496, 16-17=-259/774, 14-16=-267/178, 13-14=-216/710, 11-13=-168/821
WEBS 4-16=-1420/315, 4-14=-97/1085, 5-14=-524/177, 5-13=-178/701, 6-13=-669/308, 8-13=-190/550, 8-11=-378/205, 2-17=-46/495, 9-11=-137/1008

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18, 16, and 10. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 1, 2022

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

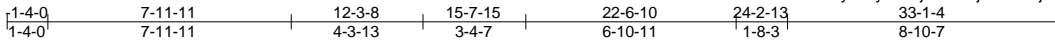
818 Soundside Road
 Edenton, NC 27932

Job 2100826-2100826A	Truss A4	Truss Type Piggyback Base	Qty 4	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989240
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:23 2022 Page 1

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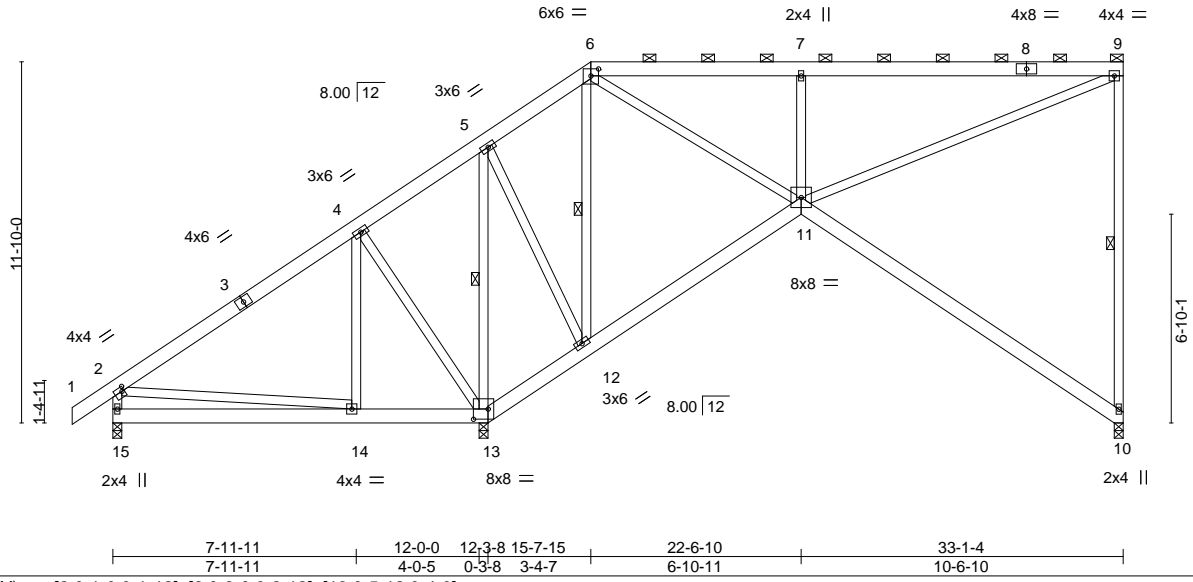


Plate Offsets (X,Y)--	[2:0-1-0,0-1-12], [6:0-3-0,0-2-12], [13:0-5-12,0-4-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.16	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.33	10-11	>752		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.09	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 295 lb	FT = 20%

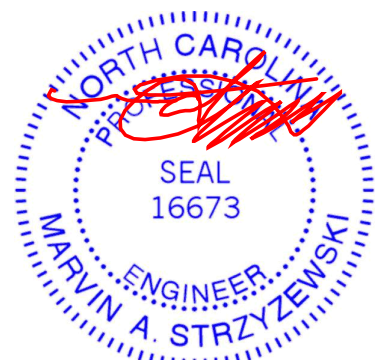
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 9-10, 5-13, 6-12

REACTIONS. (size) 10=0-3-8, 15=0-3-8, 13=0-3-8
 Max Horz 15=421(LC 12)
 Max Uplift 10=-133(LC 9), 15=-62(LC 24), 13=-240(LC 9)
 Max Grav 10=618(LC 1), 15=309(LC 19), 13=1870(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-253/388, 4-5=-178/595, 6-7=-617/218, 7-9=-617/218, 9-10=-525/213
 BOT CHORD 14-15=-475/509, 13-14=-283/169, 12-13=-599/109
 WEBS 4-14=0/327, 4-13=-554/218, 5-13=-1063/265, 5-12=-125/752, 6-12=-816/222, 6-11=-213/897, 7-11=-649/298, 9-11=-236/662, 2-14=-439/354

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 13. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 1, 2022

<p>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</p>	 818 Soundside Road Edenton, NC 27932
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Job 2100826-2100826A	Truss A5	Truss Type Piggyback Base	Qty 3	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989241
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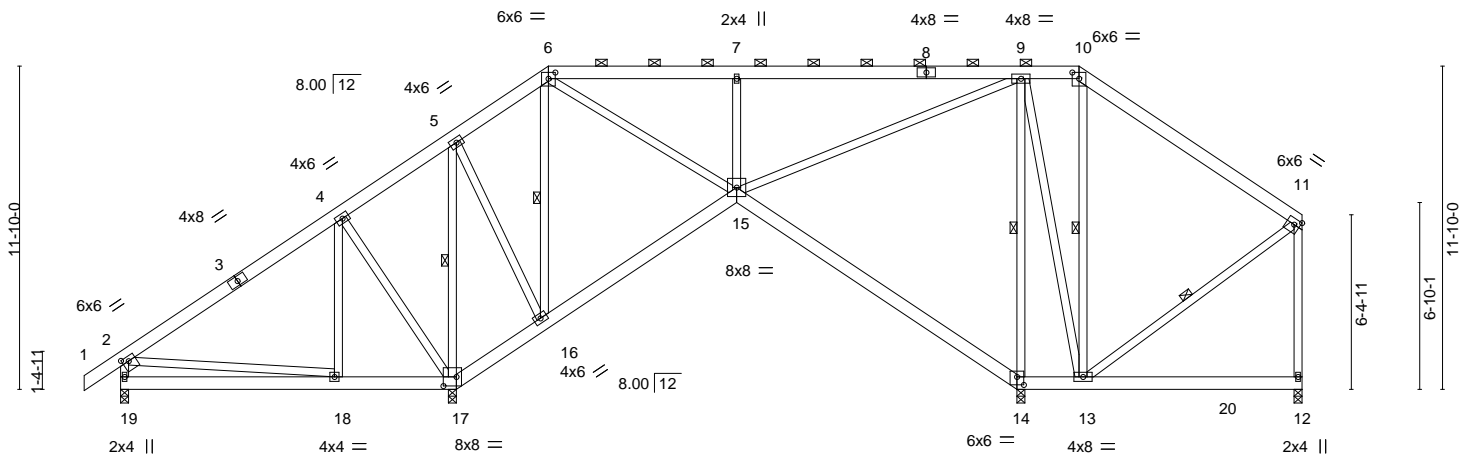
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:24 2022 Page 1

1-4-0 1-4-0	7-11-11 7-11-11	12-3-8 4-3-13	15-7-15 3-4-7	22-6-10 6-10-11	24-2-13 1-8-3	32-9-12 8-6-15	35-1-1 2-3-5	43-3-0 8-1-15
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7-11-11 7-11-11	12-1-12 4-2-1	12-3-8 0-1-12	15-7-15 3-4-7	22-6-10 6-10-11	32-9-12 10-3-2	35-1-1 32-1-8 0-1-12 2-1-9	43-3-0 8-1-15
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Plate Offsets (X, Y)-- [2:0-2-12,0-2-0], [6:0-3-0,0-2-12], [10:0-3-0,0-2-12], [11:Edge,0-2-8], [14:0-3-0,0-3-8], [17:0-5-12,0-4-0]

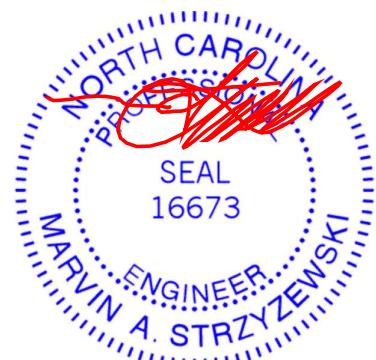
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.12 14-15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.24 14-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.07 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 402 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-10.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 18-19,12-13.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-17, 6-16, 9-14, 10-13, 11-13

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 19=374(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 12 except 17=-213(LC 9), 14=-268(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 19=332(LC 20), 17=1700(LC 1), 14=1404(LC 1), 12=418(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-282/350, 4-5=-200/552, 5-6=-110/257, 6-7=-348/188, 7-9=-348/188, 10-11=-251/246, 2-19=-259/168, 11-12=-284/152
 BOT CHORD 18-19=-365/466, 17-18=-252/259, 16-17=-552/204, 15-16=-302/242, 14-15=-305/193
 WEBS 4-18=0/325, 4-17=-546/204, 5-17=-925/199, 5-16=-113/644, 6-16=-678/208, 6-15=-145/591, 7-15=-572/266, 9-15=-249/556, 9-14=-1115/331, 9-13=-68/379, 2-18=-408/305

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19, 17, 14, and 12. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 1, 2022

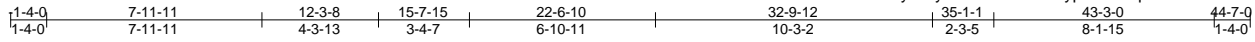
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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</p>	 818 Soundside Road Edenton, NC 27932
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Job	Truss	Truss Type	Qty	Ply	1393 Walker RD Castio	149989242
2100826-2100826A	A6	Piggyback Base	2	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

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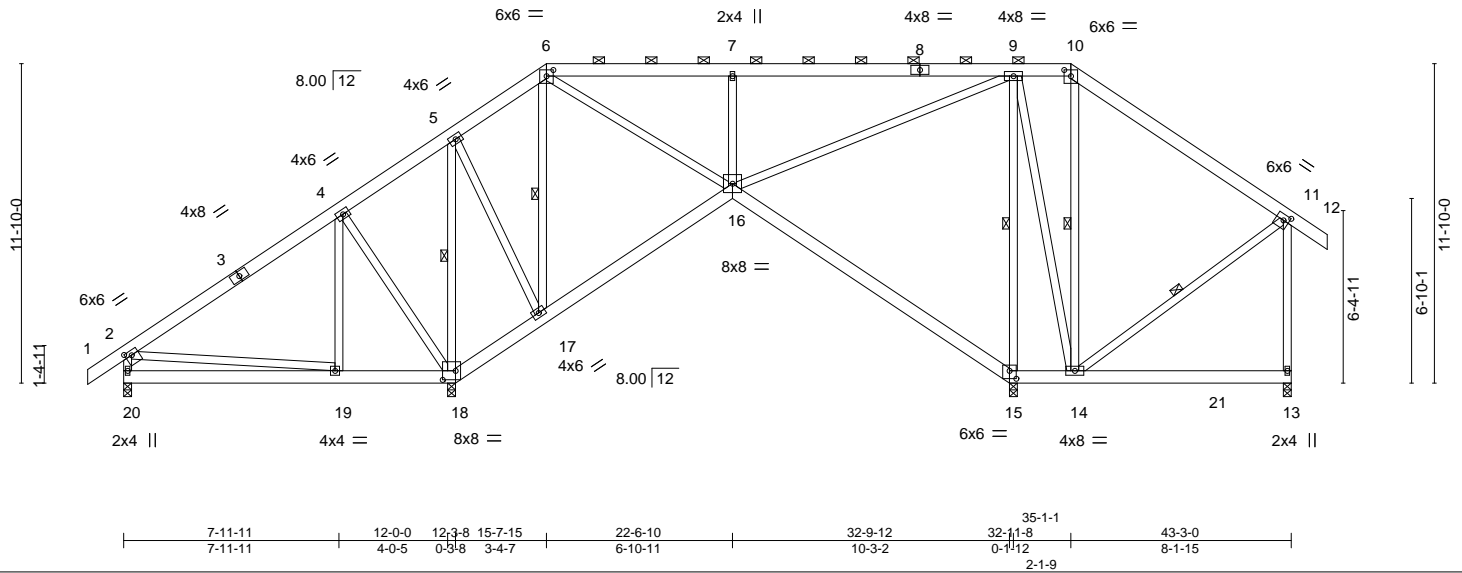


Plate Offsets (X, Y)--	[2:0-2-12,0-2-0], [6:0-3-0,0-2-12], [10:0-3-0,0-2-12], [11:0-2-8,0-2-8], [15:0-3-0,0-3-8], [18:0-5-12,0-4-0]
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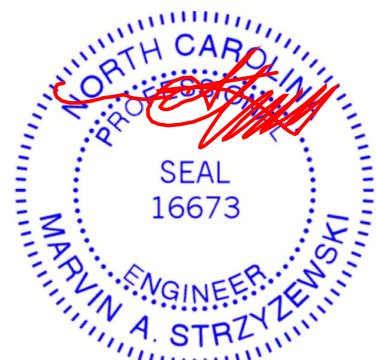
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.12 15-16 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.73	Vert(CT) -0.24 15-16 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 15 n/a n/a		
	Code IRC2015/TPI2014			Weight: 406 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-10.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 19-20,13-14.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-18, 6-17, 9-15, 10-14, 11-14

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 20=382(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 20=-101(LC 12), 18=-209(LC 9), 15=-263(LC 9), 13=-123(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 20=337(LC 20), 18=1692(LC 1), 15=1415(LC 1), 13=499(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-289/347, 4-5=-193/550, 5-6=-114/264, 6-7=-338/184, 7-9=-338/184, 9-10=-213/260, 10-11=-255/253, 2-20=-263/182, 11-13=-364/187
 BOT CHORD 19-20=-340/487, 18-19=-250/266, 17-18=-549/212, 16-17=-319/263, 15-16=-309/206
 WEBS 4-19=0/325, 4-18=-548/200, 5-18=-919/176, 5-17=-109/639, 6-17=-671/203, 6-16=-141/579, 7-16=-572/266, 9-16=-242/555, 9-15=-1119/307, 9-14=-50/385, 10-14=-260/110, 2-19=-420/277

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20, 18, 15, and 13. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 1, 2022

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818 Soundside Road
Edenton, NC 27932

Job 2100826-2100826A	Truss A6E	Truss Type GABLE	Qty 1	Ply 1	1393 Walker RD Castio	149989243
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:29 2022 Page 1

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1-4-0	7-11-11	4-3-13	3-4-7	6-10-11	10-3-2	2-3-5	8-1-15	1-4-0

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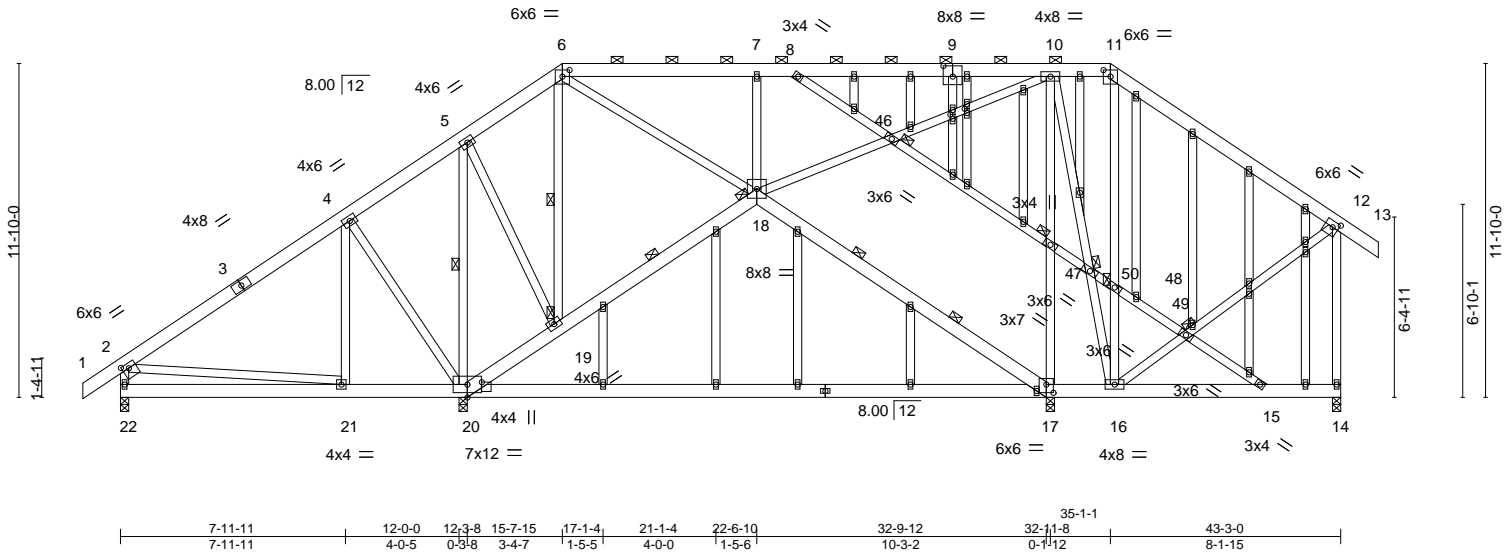


Plate Offsets (X, Y)--	[2:0-2-12,0-2-0], [6:0-3-0,0-2-12], [9:0-4-0,0-4-8], [11:0-3-0,0-2-12], [12:0-2-8,0-2-8], [17:0-3-0,0-3-8], [20:0-6-8,0-6-2], [24:0-1-13,0-1-0], [31:0-1-13,0-1-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.12 17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.24 17-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.07 17	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 578 lb	FT = 20%

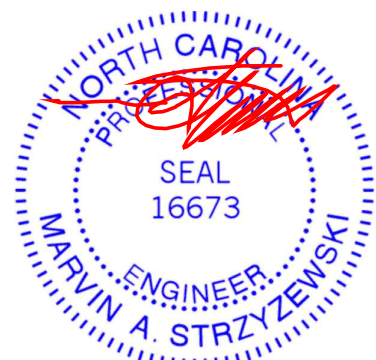
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-11.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: 19-20, 18-19, 17-18
OTHERS 2x4 SP No.3 *Except*	1 Row at midpt 5-20, 6-19
17-51,20-51: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 19, 18, 46, 47, 48, 49, 50

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 22=382(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 22=-108(LC 12), 20=-213(LC 9), 17=-211(LC 9), 14=-148(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 22=331(LC 20), 20=1705(LC 1), 17=1391(LC 1), 14=412(LC 20)

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

TOP CHORD	2-4=-272/352, 4-5=-177/555, 5-6=-101/269, 6-7=-351/234, 7-8=-351/234, 8-10=-344/134, 10-11=-217/257, 11-12=-260/248, 2-22=-258/191, 12-14=-361/184
BOT CHORD	21-22=-341/487, 20-21=-253/255, 19-20=-555/198, 18-19=-329/243, 17-18=-404/112
WEBS	4-21=0/328, 4-20=-549/199, 5-20=-928/189, 5-19=-122/646, 6-19=-681/219, 6-18=-177/595, 7-18=-567/204, 18-46=-200/548, 10-46=-200/544, 17-47=-1104/334, 10-47=-1121/340, 10-50=-113/365, 16-50=-113/364, 16-48=-254/115, 11-48=-255/117, 2-21=-427/266

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22, 20, 17, and 14. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



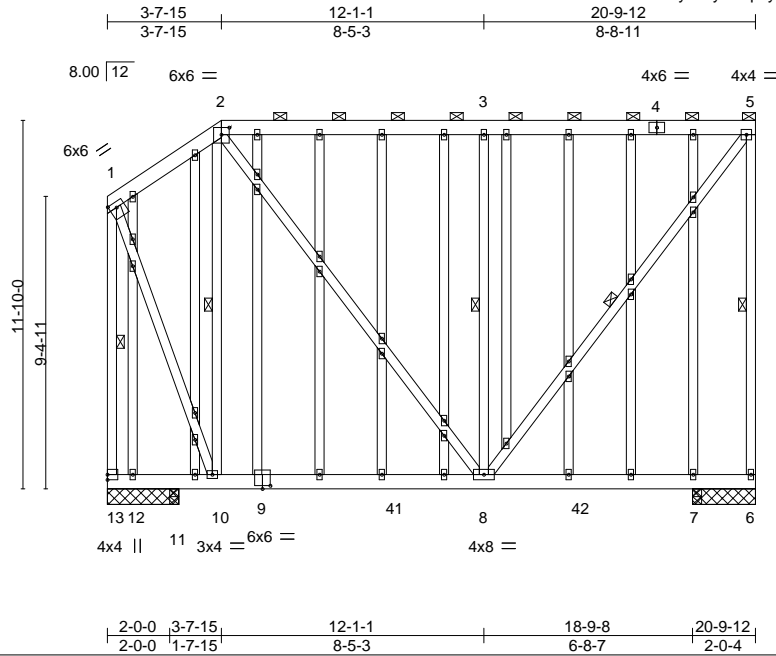
February 1, 2022

<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>818 Soundside Road Edenton, NC 27932</p>
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Job 2100826-2100826A	Truss A7E	Truss Type GABLE	Qty 1	Ply 1	1393 Walker RD Castio 149989244
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:31 2022 Page 1
ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-Joqkryy7KBPbrtHfTOFa3?VsLIZnmYlqcmxOxmzpoCM



Scale = 1:74.0

Plate Offsets (X,Y)--	[1:0-2-12,0-2-0], [2:0-3-0,0-2-12], [9:0-3-0,0-1-4]
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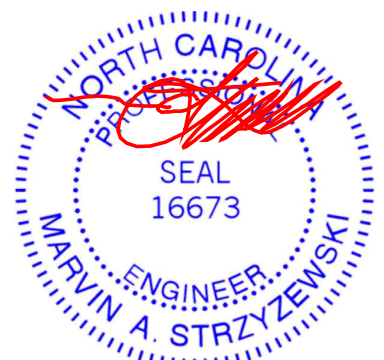
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.06	8-10	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.10	8-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 372 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, and 2-0-0 oc purlins (6-0-0 max.): 2-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-6, 2-10, 3-8, 5-8, 1-13
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 0-3-8 except (jt=length) 6=2-0-4, 13=2-3-8, 12=2-3-8.
 (lb) - Max Horz 13=-275(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 11 except 6=-252(LC 9), 13=-165(LC 8), 12=-369(LC 22)
 Max Grav All reactions 250 lb or less at joint(s) 12, 7 except 6=676(LC 1), 13=882(LC 2), 11=389(LC 1), 7=297(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-337/191, 2-3=-390/159, 3-5=-390/159, 5-6=-702/302, 1-13=-750/97
 BOT CHORD 8-10=-181/259
 WEBS 2-10=-498/245, 2-8=-134/344, 3-8=-608/280, 5-8=-261/643, 1-10=-116/587

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - 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, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6, 13, 12, and 11. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 1, 2022

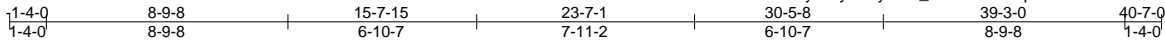
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2100826-2100826A	Truss B	Truss Type ROOF TRUSS	Qty 5	Ply 1	1393 Walker RD Castio	149989245
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:33 2022 Page 1

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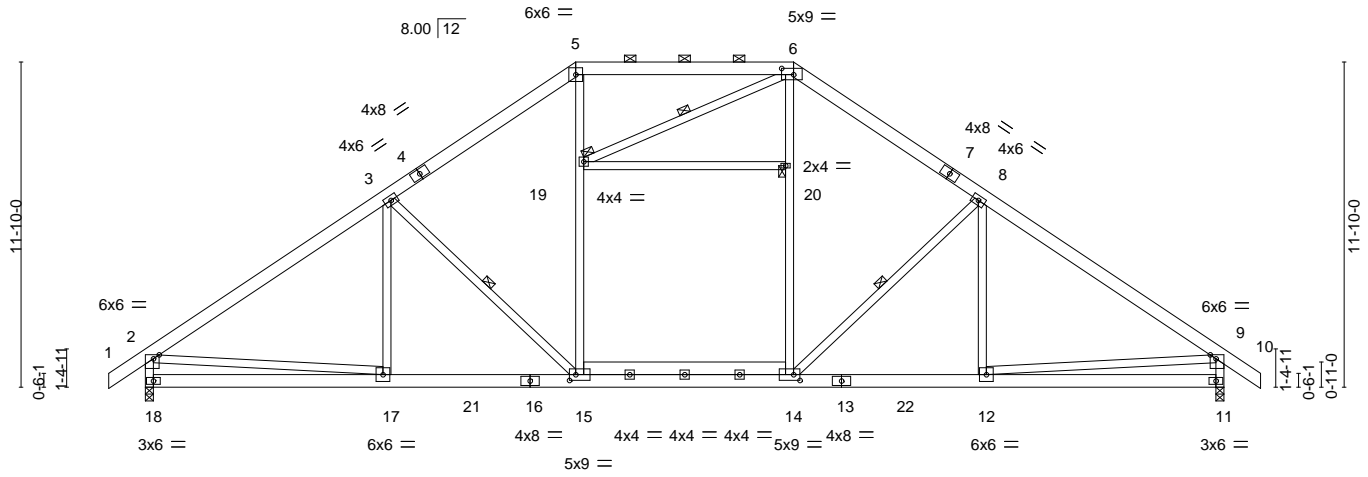


Plate Offsets (X, Y)-- [2:0-2-8,0-1-12], [6:0-5-4,0-2-12], [9:0-2-8,0-1-12], [14:0-2-12,0-2-8], [15:0-2-12,0-2-8]

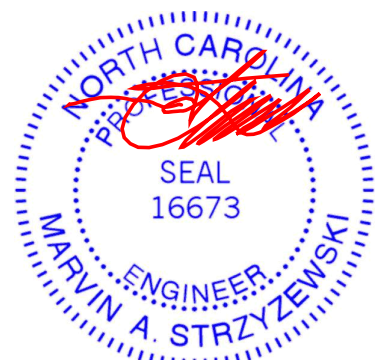
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.62	Vert(LL) -0.20 15-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.62	Vert(CT) -0.27 15-17 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 11 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.13 14-15 690 360	Weight: 352 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-14 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 3-15, 8-14, 6-19
2-18,9-11: 2x4 SP No.2 or 2x4 SPF No.2	JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS. (size) 18=0-3-8, 11=0-3-8
 Max Horz 18=317(LC 11)
 Max Uplift 18=-48(LC 12), 11=-48(LC 13)
 Max Grav 18=1802(LC 1), 11=1802(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2357/191, 3-5=-2011/241, 5-6=-1611/251, 6-8=-2012/241, 8-9=-2357/191, 2-18=-1713/242, 9-11=-1713/242
 BOT CHORD 17-18=-262/614, 15-17=-22/2004, 14-15=0/1590, 12-14=0/1858, 11-12=-86/439
 WEBS 3-15=-567/311, 15-19=-39/705, 5-19=0/737, 14-20=-40/706, 6-20=0/745, 8-14=-566/310, 2-17=0/1493, 9-12=0/1493

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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). 19-20; Wall dead load (5.0psf) on member(s).15-19, 14-20
 - Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15
 - Bearing at joint(s) 18, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 11. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



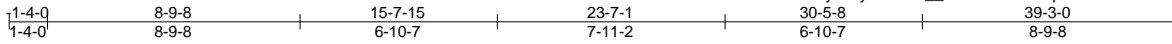
February 1, 2022

Job 2100826-2100826A	Truss B1	Truss Type Piggyback Base Girder	Qty 1	Ply 2	1393 Walker RD Castio Job Reference (optional)	149989246
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:34 2022 Page 1

ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-kNwTt_?d6nAiK?E9WpHhd7PDVYRzqgGikA2Y5zpoCJ



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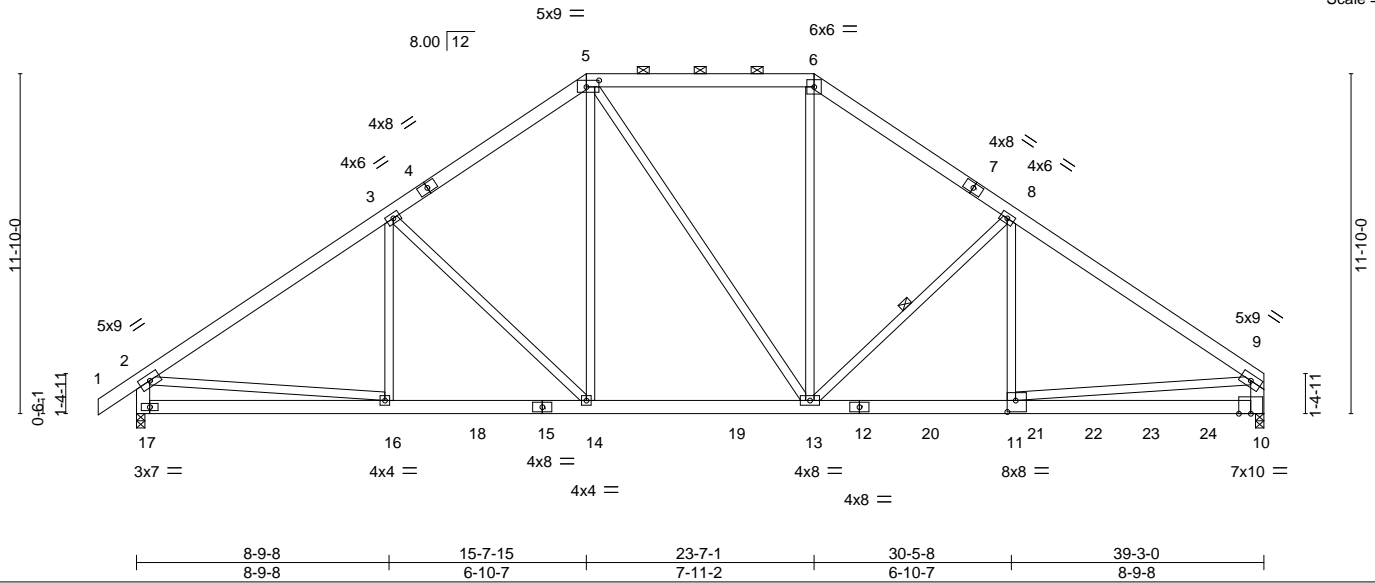


Plate Offsets (X,Y)--	[5:0-5-4,0-2-12], [11:0-3-8,0-4-12]
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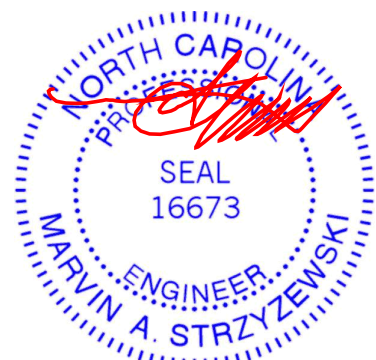
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.49	Vert(LL) -0.14 10-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.75	Vert(CT) -0.29 10-11 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.04 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 659 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, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x6 SP No.2 *Except* 10-12: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-13: 2x4 SP No.2 or 2x4 SPF No.2, 2-17,9-10: 2x6 SP No.2	WEBS 1 Row at midpt 8-13

REACTIONS. (size) 17=0-3-8, 10=0-3-8
 Max Horz 17=310(LC 9)
 Max Uplift 17=264(LC 12), 10=576(LC 13)
 Max Grav 17=2389(LC 1), 10=5062(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3172/521, 3-5=-2887/592, 5-6=-2789/608, 6-8=-3458/664, 8-9=-6194/891, 2-17=-2287/460, 9-10=-4056/621
 BOT CHORD 16-17=-326/736, 14-16=-322/2510, 13-14=-194/2308, 11-13=-634/5029, 10-11=-244/1465
 WEBS 3-14=-527/306, 5-14=-101/641, 5-13=-257/1021, 6-13=-180/1483, 8-13=-3151/589, 8-11=-392/3248, 2-16=-133/2016, 9-11=-393/3630

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Bearing at joint(s) 17, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
 - Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 1, 2022

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

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

Job 2100826-2100826A	Truss B1	Truss Type Piggyback Base Girder	Qty 1	Ply 2	1393 Walker RD Castio I49989246 Job Reference (optional)
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:35 2022 Page 2
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NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2269 lb down and 277 lb up at 30-5-8, 513 lb down and 73 lb up at 31-2-4, 513 lb down and 73 lb up at 33-2-4, and 513 lb down and 73 lb up at 35-2-4, and 513 lb down and 73 lb up at 37-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-5=-60, 5-6=-60, 6-9=-60, 10-17=-20
Concentrated Loads (lb)
Vert: 11=-2200(B) 21=-513(B) 22=-513(B) 23=-513(B) 24=-513(B)

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

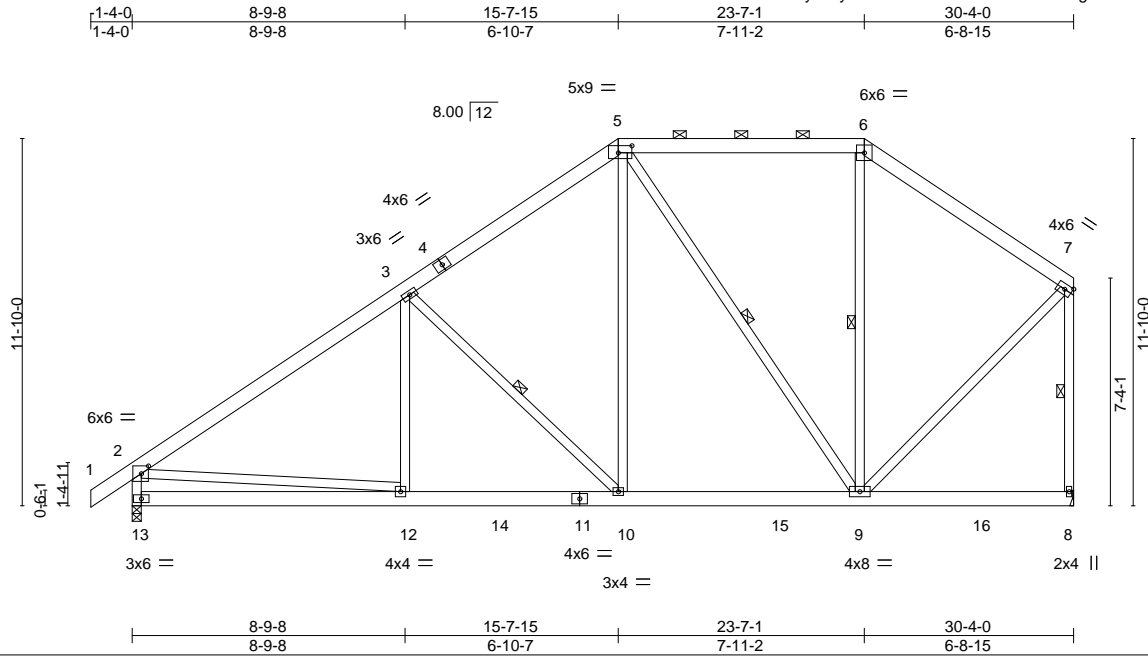
Job 2100826-2100826A	Truss B2	Truss Type Piggyback Base	Qty 3	Ply 1	1393 Walker RD Castio	149989247
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:35 2022 Page 1

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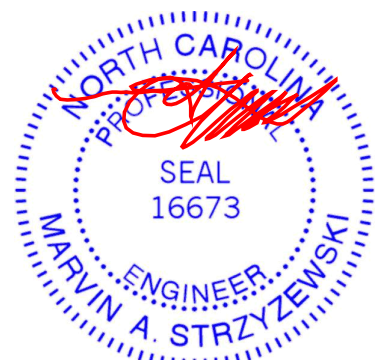
Plate Offsets (X,Y)--	[2:0-2-12,0-3-0], [5:0-5-4,0-2-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.99	Vert(LL) -0.05 9-10 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.10 12-13 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.02 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 269 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 3-10, 5-9, 6-9, 7-8
OTHERS 5-9: 2x4 SP No.2 or 2x4 SPF No.2	
2x4 SP No.3	

REACTIONS. (size) 8=Mechanical, 13=0-3-8
 Max Horz 13=386(LC 11)
 Max Uplift 8=-73(LC 12), 13=-155(LC 12)
 Max Grav 8=1253(LC 2), 13=1293(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1526/282, 3-5=-1114/341, 5-6=-619/297, 6-7=-773/282, 2-13=-1205/303, 7-8=-1144/269
 BOT CHORD 12-13=-463/658, 10-12=-401/1314, 9-10=-244/899
 WEBS 3-12=0/264, 3-10=-588/254, 5-10=-93/679, 5-9=-530/123, 2-12=0/867, 7-9=-161/835

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) Refer to girder(s) for truss to truss connections.
 - 7) Bearing at joint(s) 13 considers parallel to grain value using ANS/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
 - 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 1, 2022

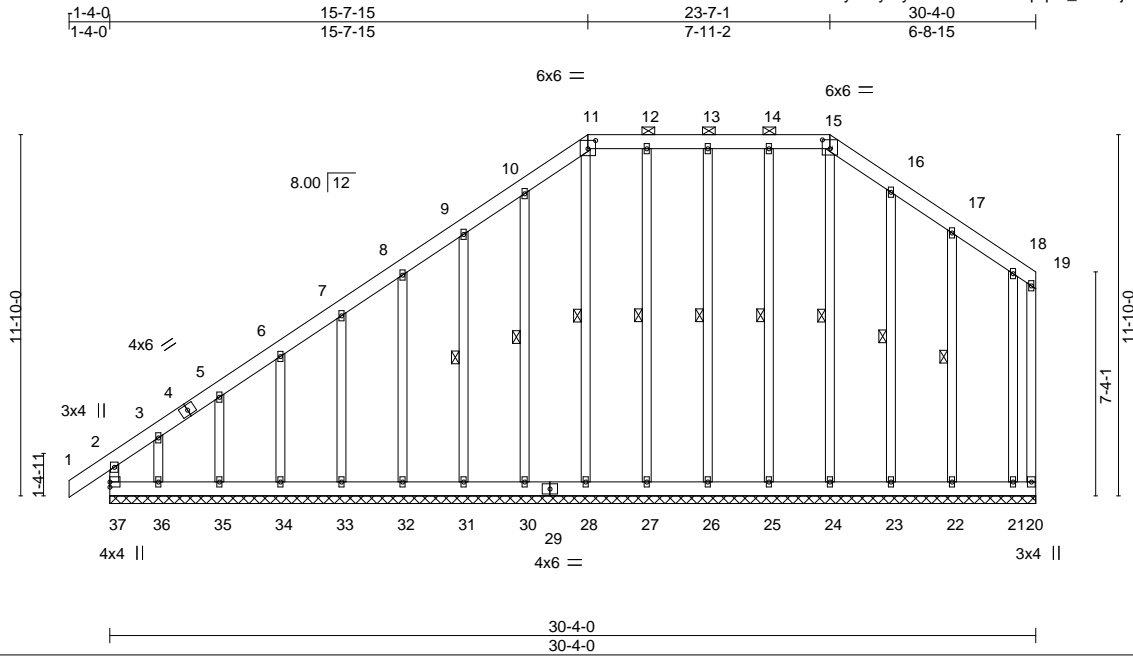
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>818 Soundside Road Edenton, NC 27932</p>
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Job 2100826-2100826A	Truss B2E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989248
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:37 2022 Page 1
ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-8yB?601uw19lZokpqfM_JGlzJf3ALDI_iOi9QzpoCG



Scale = 1:75.5

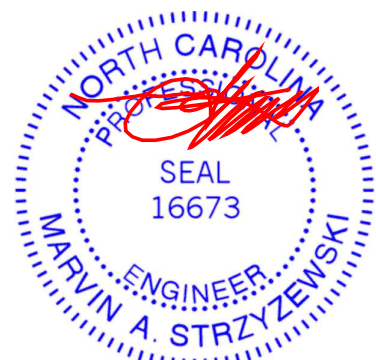
Plate Offsets (X,Y)--	[11:0-3-0,0-3-4], [15:0-3-0,0-3-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.00 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.00 1 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) -0.00 20 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R			
				Weight: 344 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, and 2-0-0 oc purlins (6-0-0 max.): 11-15.
BOT CHORD 2x6 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 15-24, 14-25, 13-26, 12-27, 11-28, 10-30, 9-31, 16-23, 17-22
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 30-4-0.
 (lb) - Max Horz 37=385(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 23, 22 except 37=271(LC 8), 36=294(LC 9), 21=103(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 20, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 23, 22, 21 except 37=432(LC 9), 36=307(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-37=-318/196, 2-3=-410/334, 3-5=-310/249, 5-6=-292/232, 6-7=-274/227, 7-8=-257/223, 10-11=-261/295, 11-12=-232/271, 12-13=-232/271, 13-14=-232/271, 14-15=-232/271, 15-16=-260/294

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 37, 20, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 36, 23, 22, and 21. This connection is for uplift only and does not consider lateral forces.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



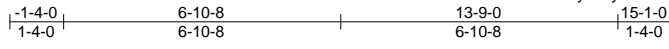
February 1, 2022

Job 2100826-2100826A	Truss C	Truss Type Common	Qty 3	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989249
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84 Components (Dunn), Dunn, NC - 28334,

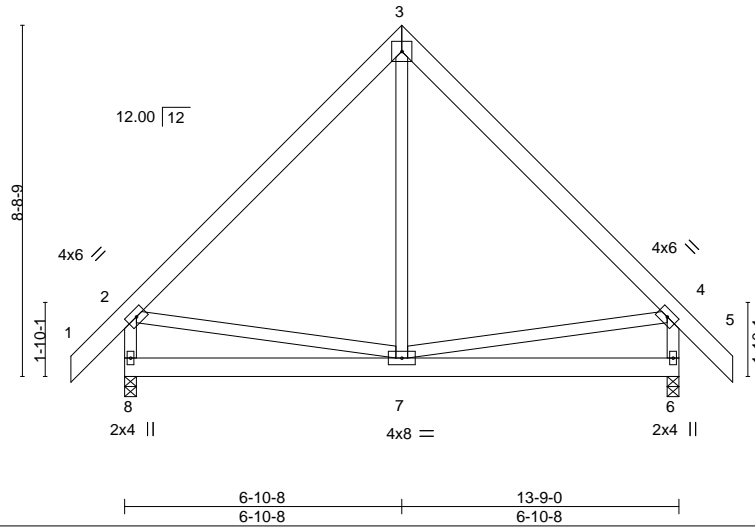
8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:38 2022 Page 1

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6x6 =

Scale = 1:57.2



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 0.43	Vert(LL)	-0.02 6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.03 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00 6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP					Weight: 122 lb	FT = 20%

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

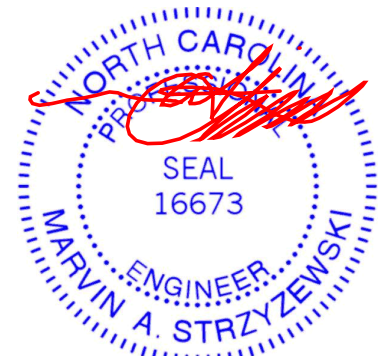
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 8=-255(LC 10)
 Max Uplift 8=-64(LC 12), 6=-64(LC 13)
 Max Grav 8=627(LC 1), 6=627(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-470/111, 3-4=-470/111, 2-8=-575/194, 4-6=-575/194
 WEBS 3-7=0/253, 2-7=-7/293, 4-7=-7/293

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.



February 1, 2022

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



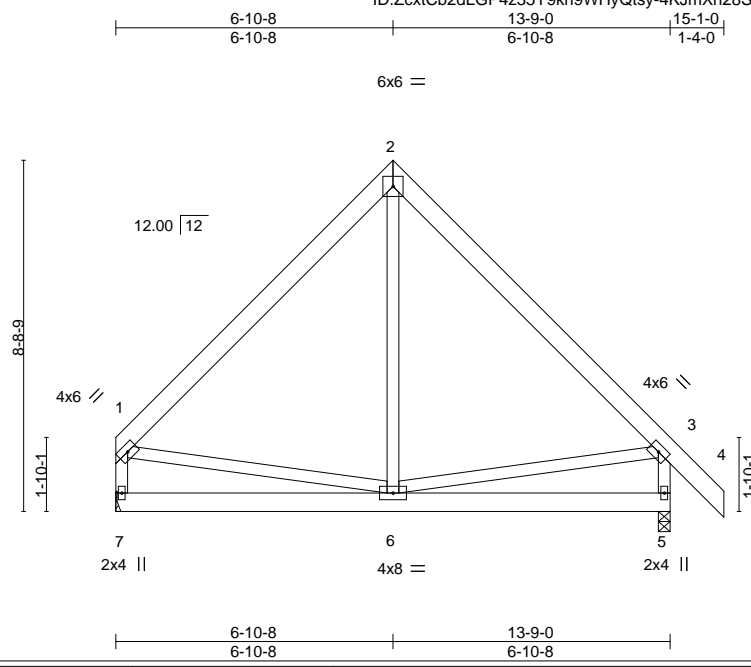
818 Soundside Road
 Edenton, NC 27932

Job 2100826-2100826A	Truss C1	Truss Type Common	Qty 4	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989250
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:39 2022 Page 1

ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-4KJmXh28SePTo5uCx4PSOhqKQWJCeF8?R0tpDIzpoCE



Scale = 1:57.2

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 0.43	Vert(LL)	-0.02	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.03	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						
								Weight: 118 lb	FT = 20%

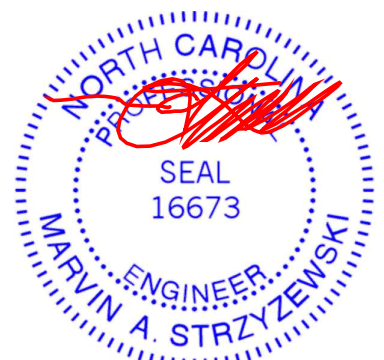
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (size) 7=Mechanical, 5=0-3-8
 Max Horz 7=242(LC 8)
 Max Uplift 7=53(LC 13), 5=63(LC 13)
 Max Grav 7=533(LC 1), 5=632(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-440/102, 2-3=-476/110, 1-7=-482/128, 3-5=-580/193
 WEBS 2-6=0/252, 1-6=-21/278, 3-6=-6/297

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) 7.
 - 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.



February 1, 2022

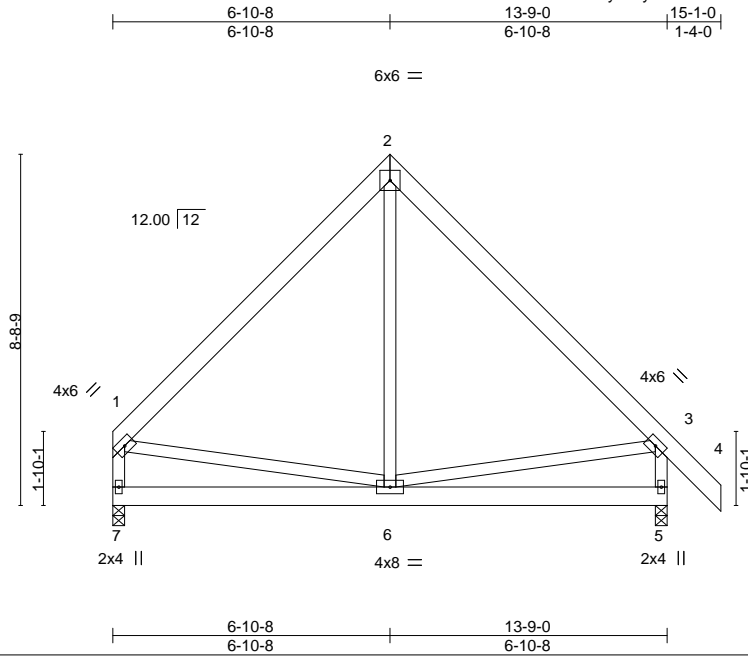
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2100826-2100826A	Truss C1A	Truss Type Common	Qty 1	Ply 1	1393 Walker RD Castio Job Reference (optional)	I49989251
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:39 2022 Page 1

ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-4KJmXh28SePTo5uCx4PSOhqKQWJCeF8?R0tpDIzpoCE



Scale = 1:57.2

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 0.43	Vert(LL)	-0.02	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.03	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						
								Weight: 118 lb	FT = 20%

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

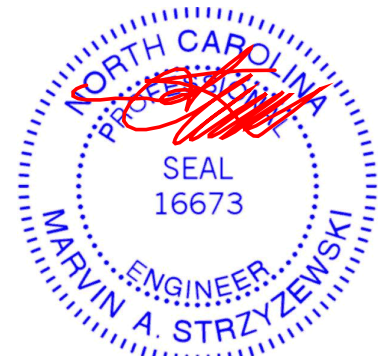
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 5=0-3-8
 Max Horz 7=-242(LC 8)
 Max Uplift 7=-53(LC 13), 5=-63(LC 13)
 Max Grav 7=533(LC 1), 5=632(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-440/102, 2-3=-476/110, 1-7=-482/128, 3-5=-580/193
 WEBS 2-6=0/252, 1-6=-21/278, 3-6=-6/297

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.



February 1, 2022

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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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 2100826-2100826A	Truss CE	Truss Type Common Supported Gable	Qty 1	Ply 1	1393 Walker RD Castio 149989252
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84 Components (Dunn), Dunn, NC - 28334,

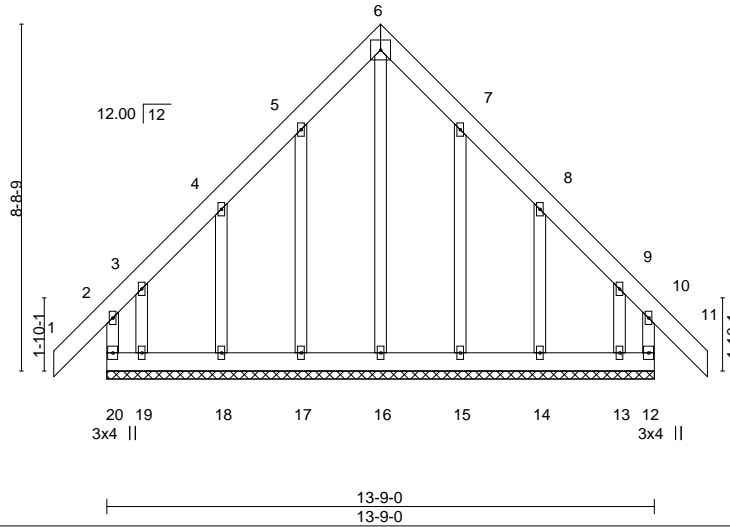
8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:40 2022 Page 1

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6x6 =

Scale = 1:57.9



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 0.26	Vert(LL)	-0.00	11	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	11	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	-0.00	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 136 lb	FT = 20%

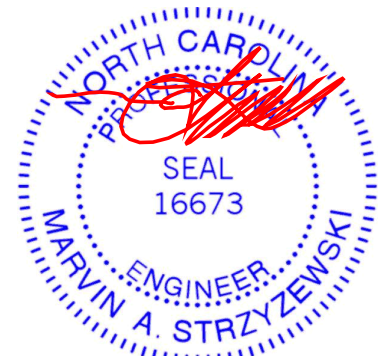
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 13-9-0.
 (lb) - Max Horz 20=-254(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 15 except 20=-278(LC 8), 12=-258(LC 9), 18=-121(LC 12), 19=-241(LC 9), 14=-121(LC 13), 13=-228(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 17, 18, 15, 14 except 20=329(LC 20), 12=313(LC 19), 16=289(LC 13), 19=300(LC 10), 13=285(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-6=-220/313, 6-7=-220/313
 WEBS 6-16=-345/173

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



February 1, 2022

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

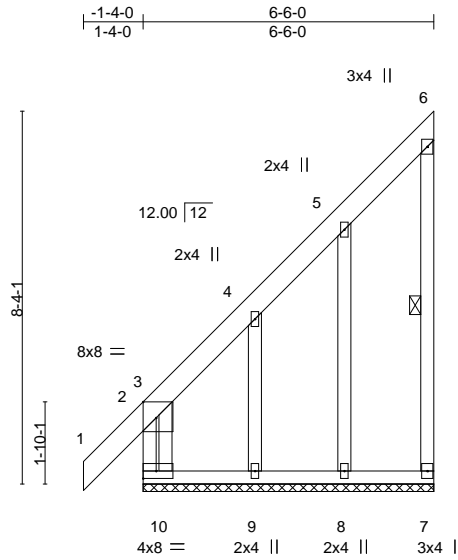
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 2100826-2100826A	Truss M1	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	1393 Walker RD Castio Job Reference (optional)	I49989253
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:41 2022 Page 1

ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-1jRWxN4OzFgA1P1a3URwT6wc0K?A65DlvKMwIBzpoCC



Scale = 1:51.5

Plate Offsets (X,Y)--	[2:0-3-8,Edge]						PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	0.00	1-2	n/r	120
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	0.00	1-2	n/r	90
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	-0.00	7	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					
							Weight: 65 lb	FT = 20%

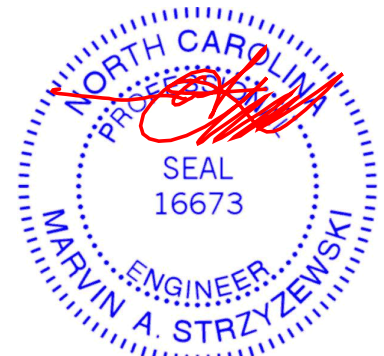
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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.
 WEBS 1 Row at midpt 6-7

REACTIONS. All bearings 6-6-0.
 (lb) - Max Horz 10=312(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 8 except 10=161(LC 8), 9=308(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 7, 8 except 10=403(LC 20), 9=303(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-10=-918/1008, 2-3=-445/517, 3-4=-637/565, 4-5=-267/262
 WEBS 4-9=-471/501, 3-10=-1507/1276

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 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, 8 except (jt=lb) 10=161, 9=308.



February 1, 2022

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



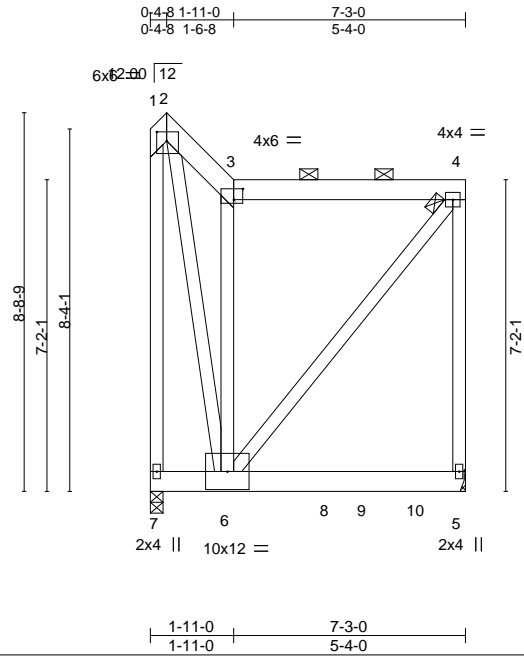
818 Soundside Road
 Edenton, NC 27932

Job 2100826-2100826A	Truss M1GR	Truss Type Roof Special Girder	Qty 1	Ply 2	1393 Walker RD Castio Job Reference (optional)	I49989254
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:42 2022 Page 1

ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-Vv?u9j51kZo1fZcmdCy90JSr9kHirTGR8_6TqdzpoCB



Scale = 1:53.0

Plate Offsets (X,Y)--	[1:0-2-12,0-2-8], [3:0-2-8,0-3-0]
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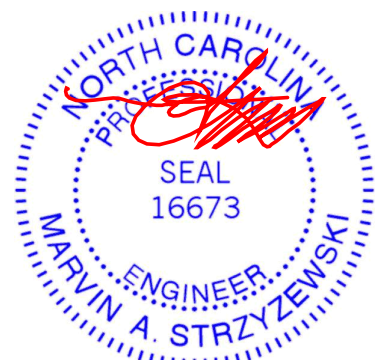
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.07	5-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.13	5-6	>661	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.65	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 182 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, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 5=Mechanical, 7=0-3-8
 Max Horz 7=205(LC 11)
 Max Uplift 5=-242(LC 9), 7=-207(LC 8)
 Max Grav 5=2302(LC 2), 7=1906(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1642/272, 2-3=-950/139, 3-4=-544/48, 4-5=-809/183
 BOT CHORD 6-7=-279/308
 WEBS 2-6=-490/3133, 3-6=-958/251, 4-6=-196/825, 1-7=-2327/385

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - 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=242.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
 - 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) 1233 lb down and 93 lb up at 2-0-12, and 1231 lb down and 93 lb up at 4-0-12, and 1203 lb down and 93 lb up at 6-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



February 1, 2022

LOAD CASE(S) Standard
 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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Job 2100826-2100826A	Truss M1GR	Truss Type Roof Special Girder	Qty 1	Ply 2	1393 Walker RD Castio Job Reference (optional)	I49989254
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:42 2022 Page 2
ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-Vv?u9j51kZo1fZcmdCy90JSr9kHirTGR8_6TqdzpoCB

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-1179(F) 8=-1179(F) 10=-1179(F)

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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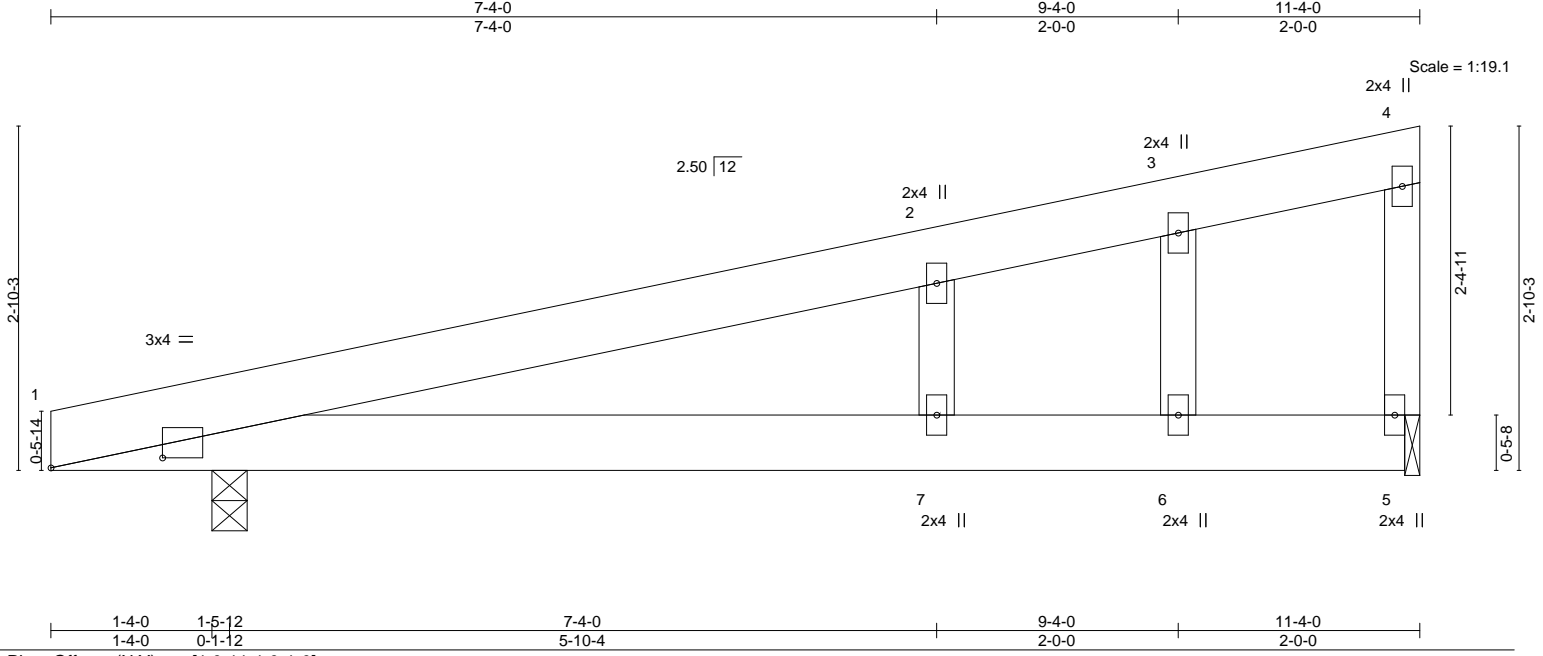


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	1393 Walker RD Castio	149989255
2100826-2100826A	M2	MONOPITCH	2	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:43 2022 Page 1
 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-z5YHM35fVtwuHjBzAvTOYX?_38bYa48bMer1M3zpoCA



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)	0.14	7-12	>933	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.28	7-12	>480		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	1	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						
								Weight: 60 lb	FT = 20%

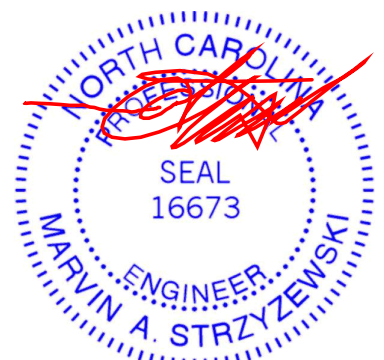
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (size) 1=0-3-8, 5=0-1-8
 Max Horz 1=94(LC 11)
 Max Uplift 1=-88(LC 8), 5=-76(LC 12)
 Max Grav 1=508(LC 1), 5=387(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.



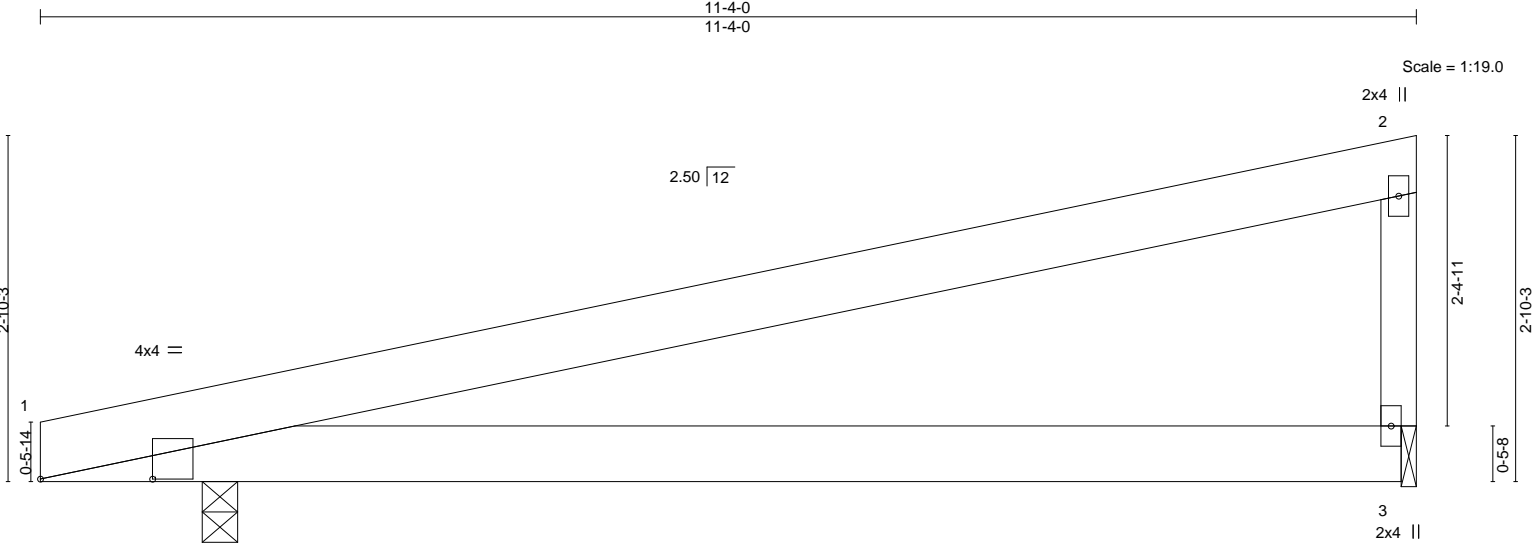
February 1, 2022

Job	Truss	Truss Type	Qty	Ply	1393 Walker RD Castio	149989256
2100826-2100826A	M3	MONOPICH	15	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:43 2022 Page 1

ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-z5YHM35fVtwuHjBzAvTOYX?yU8cda4ebMer1M3zpoCA



1-4-0	1-5-12
1-4-0	0-1-12

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.48	Vert(LL) -0.10 3-8 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.24 3-8 >564 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 1 n/a n/a		
	Code IRC2015/TPI2014			Weight: 56 lb	FT = 20%

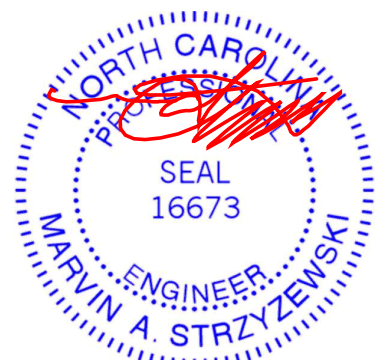
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (size) 1=0-3-8, 3=0-1-8
 Max Horz 1=94(LC 11)
 Max Uplift 1=-88(LC 8), 3=-76(LC 12)
 Max Grav 1=508(LC 1), 3=387(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-262/159

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.



February 1, 2022

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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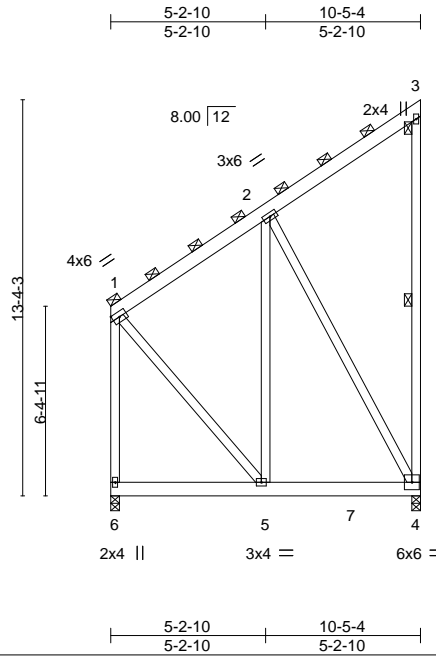
818 Soundside Road
 Edenton, NC 27932

Job 2100826-2100826A	Truss MG1	Truss Type Monopitch	Qty 2	Ply 2	1393 Walker RD Castio Job Reference (optional)	149989257
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:44 2022 Page 1

ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-RI6faP6HGA2lutm9kd_d5kX5vX1rJPykblbauWzpoC9



Scale = 1:77.6

LOADING (psf)	SPACING-	5-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.01 4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02 4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.57	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP					Weight: 241 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
 (Switched from sheeted: Spacing > 2-8-0).
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD 1 Row at midpt
 WEBS 3-4

REACTIONS.

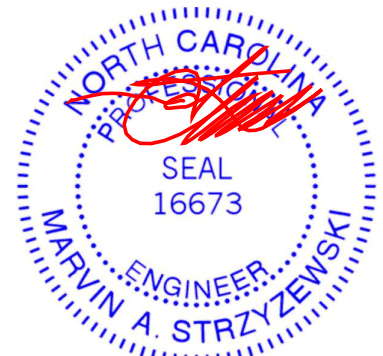
(size) 6=0-3-8, 4=0-3-8
 Max Horz 6=676(LC 9)
 Max Uplift 4=-730(LC 12)
 Max Grav 6=1020(LC 20), 4=1411(LC 19)

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

TOP CHORD 1-2=-621/36, 2-3=-297/159, 3-4=-312/209, 1-6=-935/0
 BOT CHORD 5-6=-913/771, 4-5=-424/606
 WEBS 2-5=-381/496, 2-4=-1272/890, 1-5=-255/756

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 1, 2022

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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

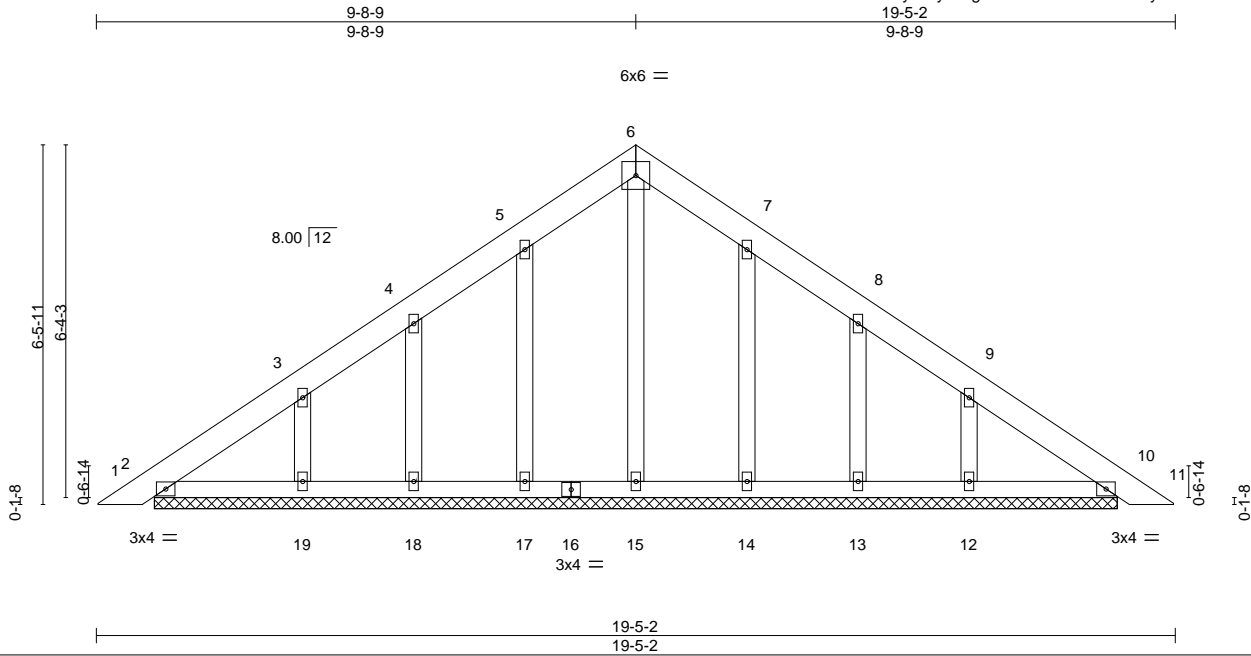


818 Soundside Road
 Edenton, NC 27932

Job 2100826-2100826A	Truss PB1	Truss Type Piggyback	Qty 2	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989258
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:45 2022 Page 1
ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-vUg1nl7v1UAcWOLLIKVsdy4R?xPs2zztqyK7RyzpoC8



Scale = 1:41.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	0.00	10	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	10	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 115 lb	FT = 20%

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

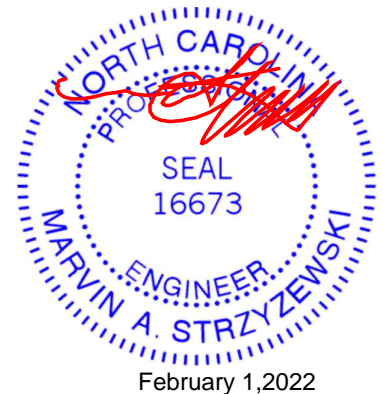
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-4-0.
 (lb) - Max Horz 2=153(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 13, 19, 17, 14, 12
 Max Grav All reactions 250 lb or less at joint(s) 2, 15, 18, 13, 19, 17, 14, 12, 10

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- N/A
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 1, 2022

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

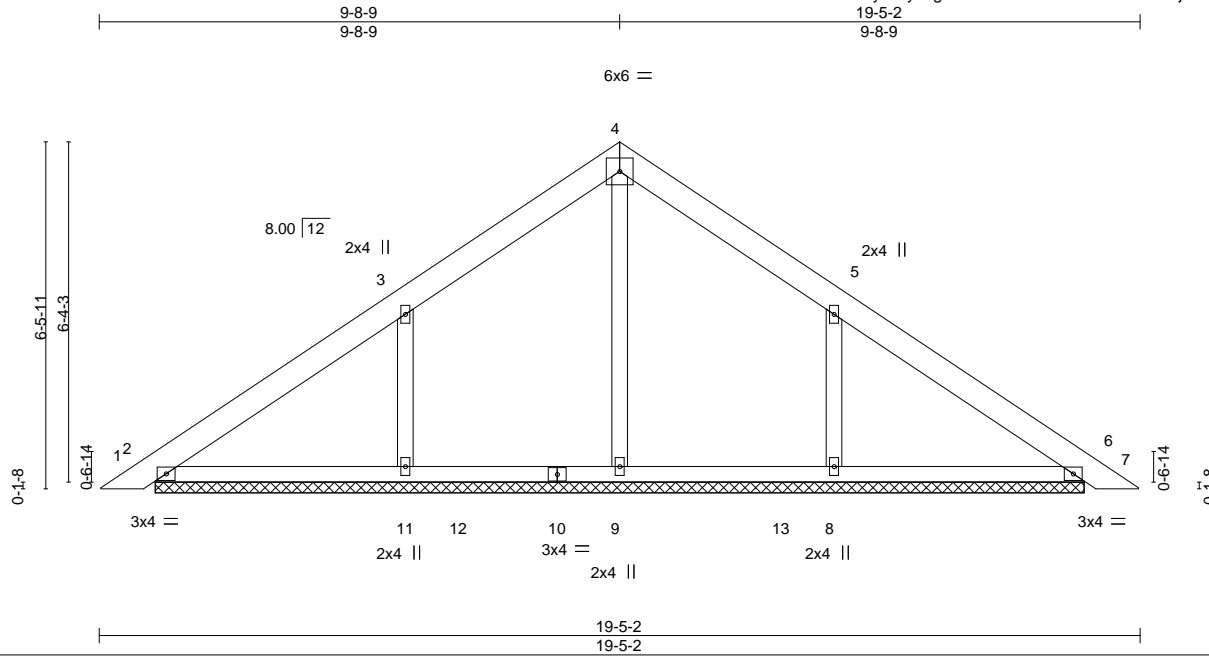
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 2100826-2100826A	Truss PB2	Truss Type Piggyback	Qty 11	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989259
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:46 2022 Page 1

ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-NgEP?58XoolT8AwYs215A9dbQLJFnQs12c4hzOzpcC7



Scale = 1:43.0

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 0.12	Vert(LL)	0.00	7	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	0.01	7	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 97 lb	FT = 20%

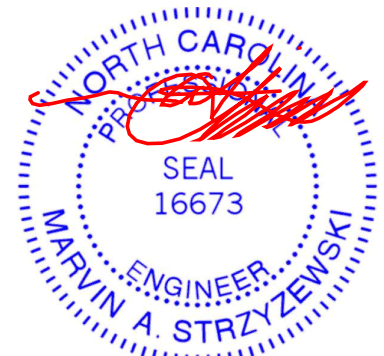
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3

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 17-4-0.
 (lb) - Max Horz 2=-153(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 11=-173(LC 12), 8=-171(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=352(LC 22), 11=472(LC 19), 8=469(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-11=-341/225, 5-8=-339/223

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - N/A
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 1, 2022

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

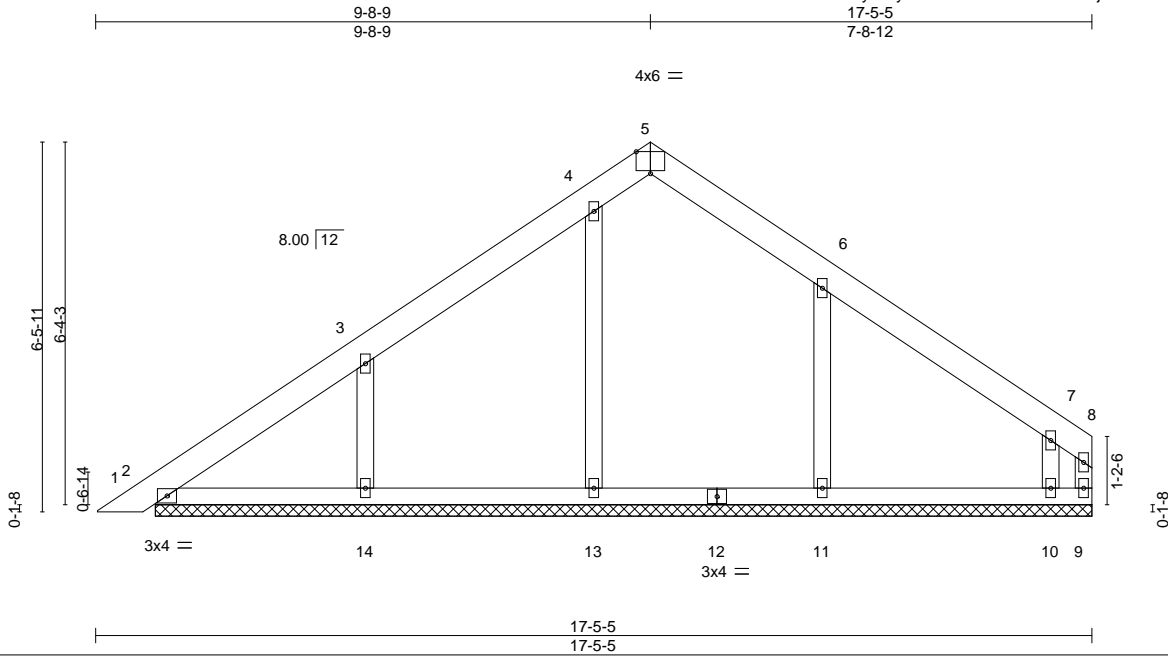
Job 2100826-2100826A	Truss PB3	Truss Type Piggyback	Qty 4	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989260
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:47 2022 Page 1

ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-rtonCR99Z5QKIKVvPIYKjN9mal3WtrAHGpEVzqpcC6



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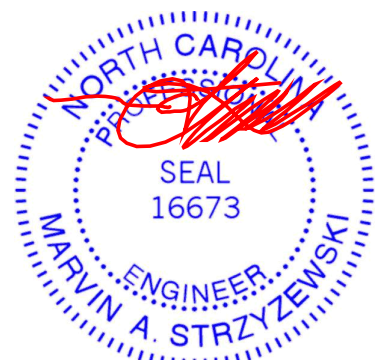
Plate Offsets (X,Y)--		[5:0-3-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10
TCDL 10.0	Lumber DOL	1.15	BC 0.14
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S
DEFL.	DEFL.	in (loc)	l/defl
Vert(LL) 0.00	Vert(LL) 0.00	1	n/r
Vert(CT) 0.00	Vert(CT) 0.00	1	n/r
Horz(CT) 0.00	Horz(CT) 0.00	9	n/a
PLATES	GRIP		
MT20	197/144		
Weight: 92 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	2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 or 2x4 SPF No.2		
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 16-4-12.
 (lb) - Max Horz 2=162(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 11 except 9=150(LC 11), 14=161(LC 12), 10=261(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 9, 2 except 13=370(LC 19), 14=361(LC 19), 11=402(LC 20), 10=326(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-14=301/208, 6-11=250/144, 7-10=310/254

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 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) N/A
 - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 1, 2022

<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 2100826-2100826A	Truss PB3A	Truss Type Piggyback	Qty 1	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989261
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:48 2022 Page 1

ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-J3MAPm9nKPYBNU4wzT3ZFaixV9P4FKDKWwZo1HzpoC5



4x6 =

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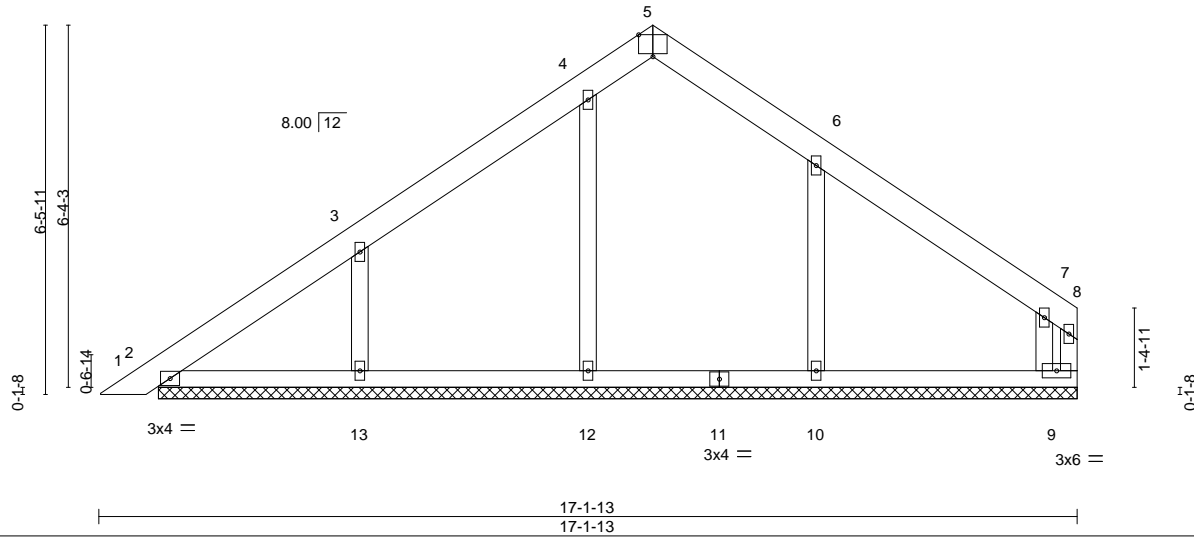


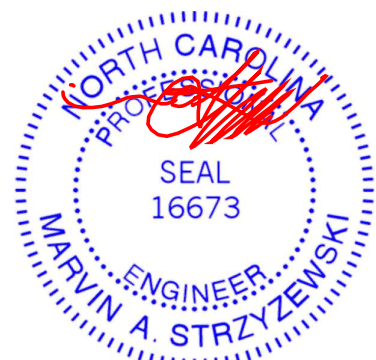
Plate Offsets (X,Y)--	[5:0-3-0,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	0.00	1	n/r	120
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	0.00	1	n/r	90
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	9	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					
								PLATES
								MT20
								GRIP
								197/144
								Weight: 91 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	2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 or 2x4 SPF No.2		
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 16-1-4.
 (lb) - Max Horz 2=165(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 12 except 13=163(LC 12), 10=114(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 9, 2 except 12=361(LC 19), 13=354(LC 19), 10=413(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-13=-308/209, 6-10=-254/161

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 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) N/A
 - 8) N/A
 - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 1, 2022

<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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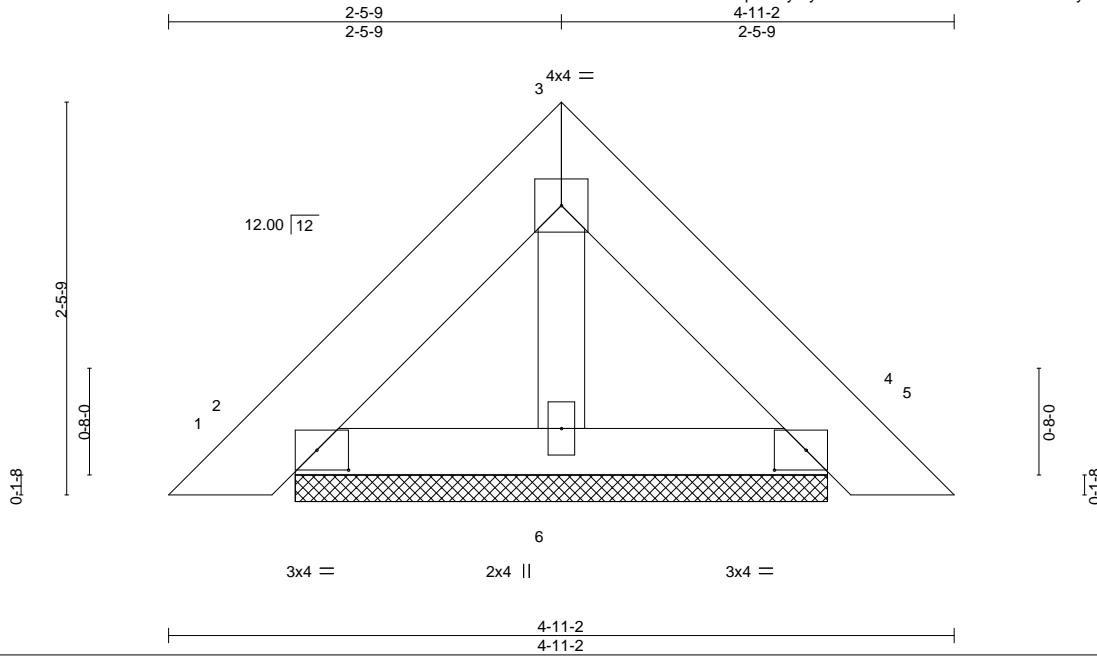
Job 2100826-2100826A	Truss PB4	Truss Type Piggyback	Qty 15	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989262
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:48 2022 Page 1

ID:Mr6LQdviPukxcduzKqRJs6ymy5r-J3MAPm9nKPYBNU4wzT3ZFaiyT9RsFLkKWwZo1HzpoC5



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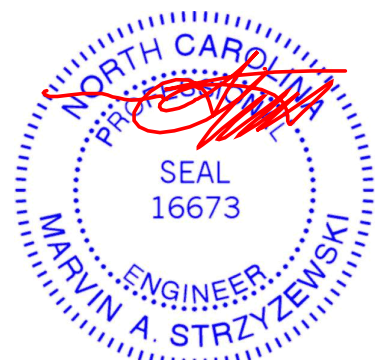
Plate Offsets (X, Y)--	[2:0-2-6,0-1-8], [4:0-2-6,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.02	Vert(LL) 0.00 4 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00 4 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 23 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=3-4-1, 4=3-4-1, 6=3-4-1
 Max Horz 2=-53(LC 10)
 Max Uplift 2=-28(LC 13), 4=-34(LC 13)
 Max Grav 2=117(LC 1), 4=117(LC 1), 6=100(LC 3)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) N/A
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



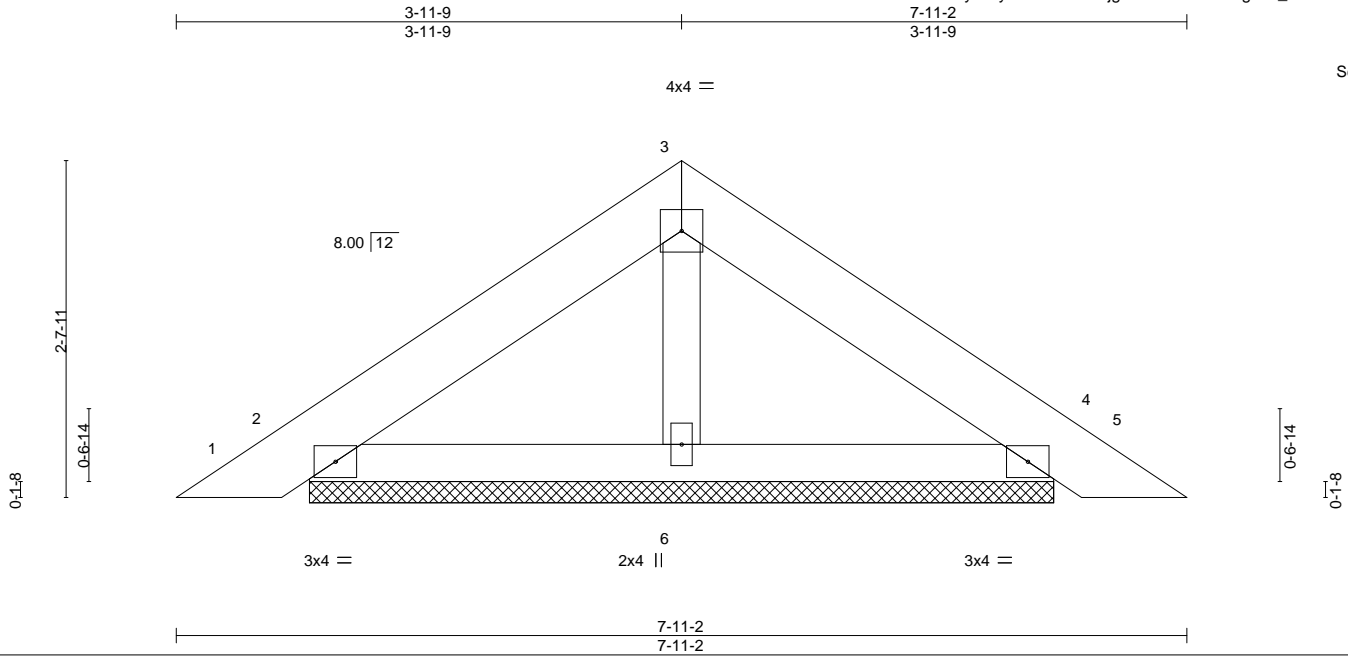
February 1, 2022

<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 2100826-2100826A	Truss PB5	Truss Type Piggyback	Qty 10	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989263
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:49 2022 Page 1
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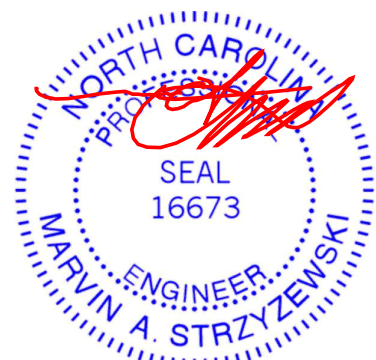
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	0.00	5	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	0.00	5	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 33 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 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=5-10-1, 4=5-10-1, 6=5-10-1
 Max Horz 2=-59(LC 10)
 Max Uplift 2=-46(LC 12), 4=-55(LC 13)
 Max Grav 2=173(LC 1), 4=173(LC 1), 6=196(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=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) N/A
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 1, 2022

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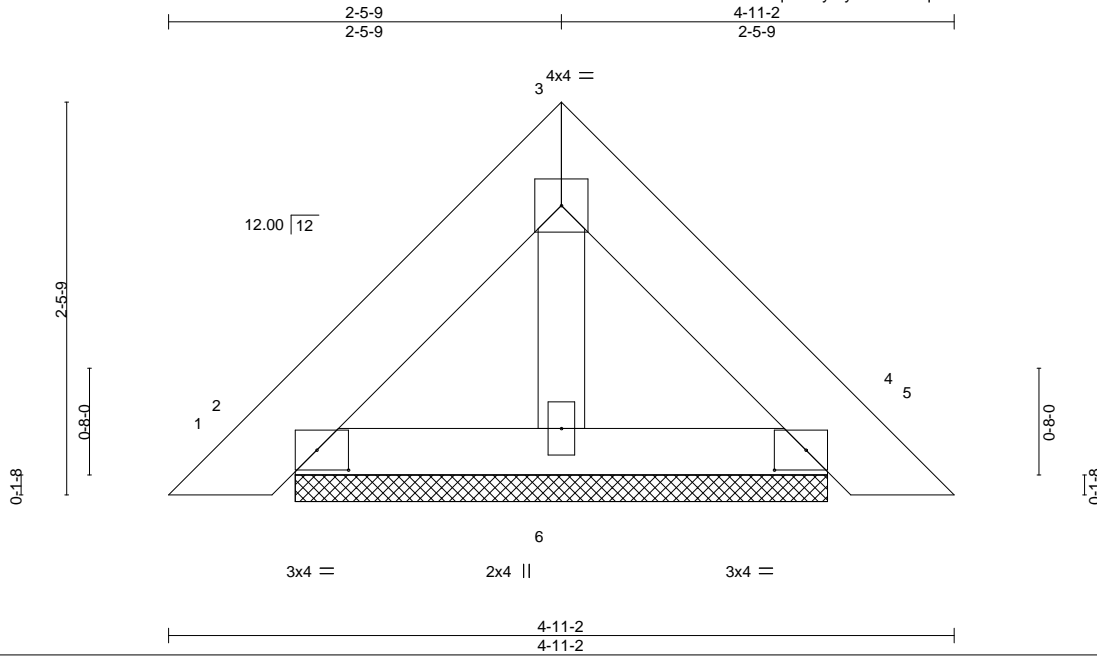
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 2100826-2100826A	Truss PB6	Truss Type Piggyback	Qty 2	Ply 2	1393 Walker RD Castio Job Reference (optional)	149989264
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:50 2022 Page 1
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Scale = 1:14.4

Plate Offsets (X, Y)--	[2:0-2-6,0-1-8], [4:0-2-6,0-1-8]				
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 0.02	Vert(LL) 0.00 4 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 4 n/r 90		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.01	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 47 lb	FT = 20%

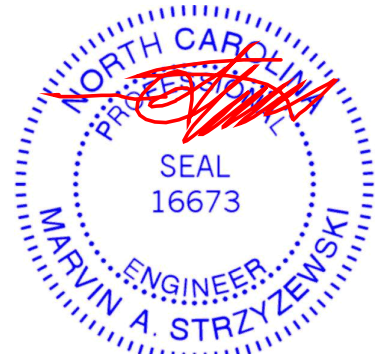
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=3-4-1, 4=3-4-1, 6=3-4-1
 Max Horz 2=-53(LC 10)
 Max Uplift 2=-57(LC 13), 4=-63(LC 13)
 Max Grav 2=272(LC 1), 4=272(LC 1), 6=164(LC 19)

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

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - N/A
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-150(F=90), 3-5=-150(F=90), 2-4=-20



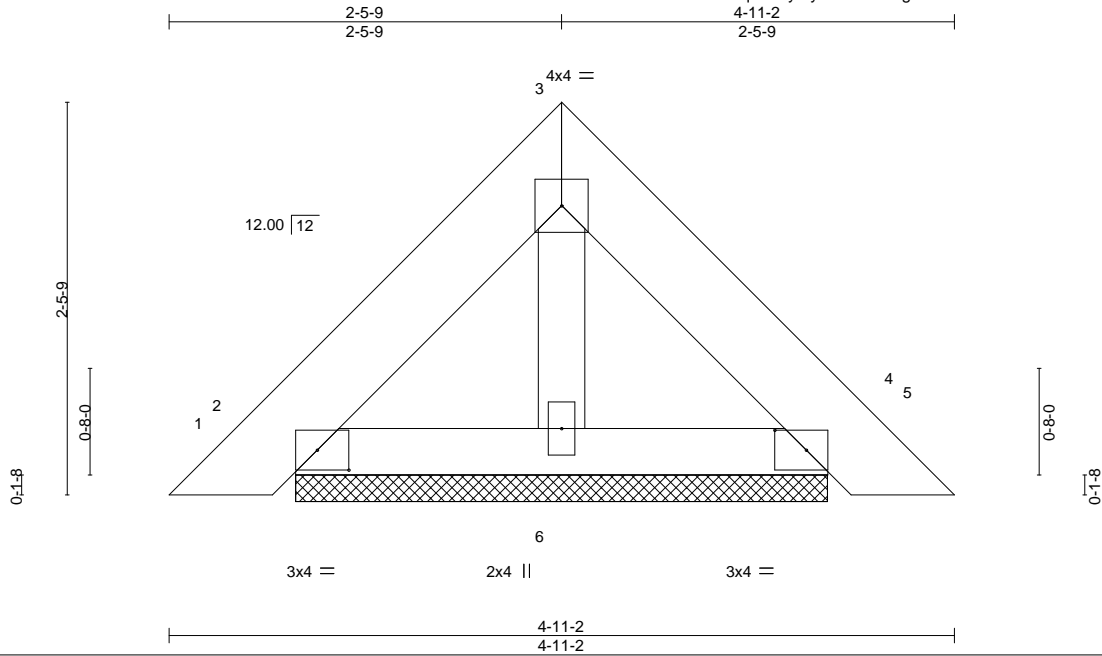
February 1, 2022

Job 2100826-2100826A	Truss PB6A	Truss Type PIGGYBACK	Qty 1	Ply 2	1393 Walker RD Castio Job Reference (optional)	149989265
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:51 2022 Page 1

ID:Mr6LQdviPukxcduzKqRJs6ymy5r-ke1I2oCgdKwmExoVebcGtDKTKMSgShFmCtnSeczpoC2



Scale = 1:14.5

Plate Offsets (X, Y)--	[2:0-2-6,0-1-8], [4:0-2-6,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) 0.00 4 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) 0.00 4 n/r 90		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 47 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

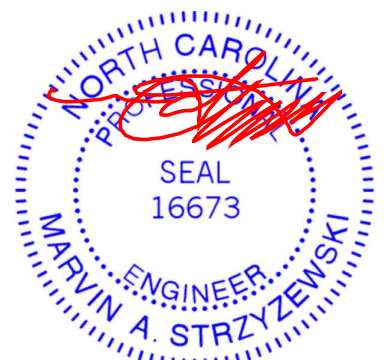
REACTIONS. (size) 2=3-4-1, 4=3-4-1, 6=3-4-1
 Max Horz 2=53(LC 11)
 Max Uplift 2=-105(LC 13), 4=-110(LC 13), 6=-19(LC 12)
 Max Grav 2=533(LC 1), 4=533(LC 1), 6=286(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-356/87, 3-4=-348/88

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - N/A
 - Non Standard bearing condition. Review required.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-300(F=-240), 3-5=-300(F=-240), 2-4=-20



February 1, 2022

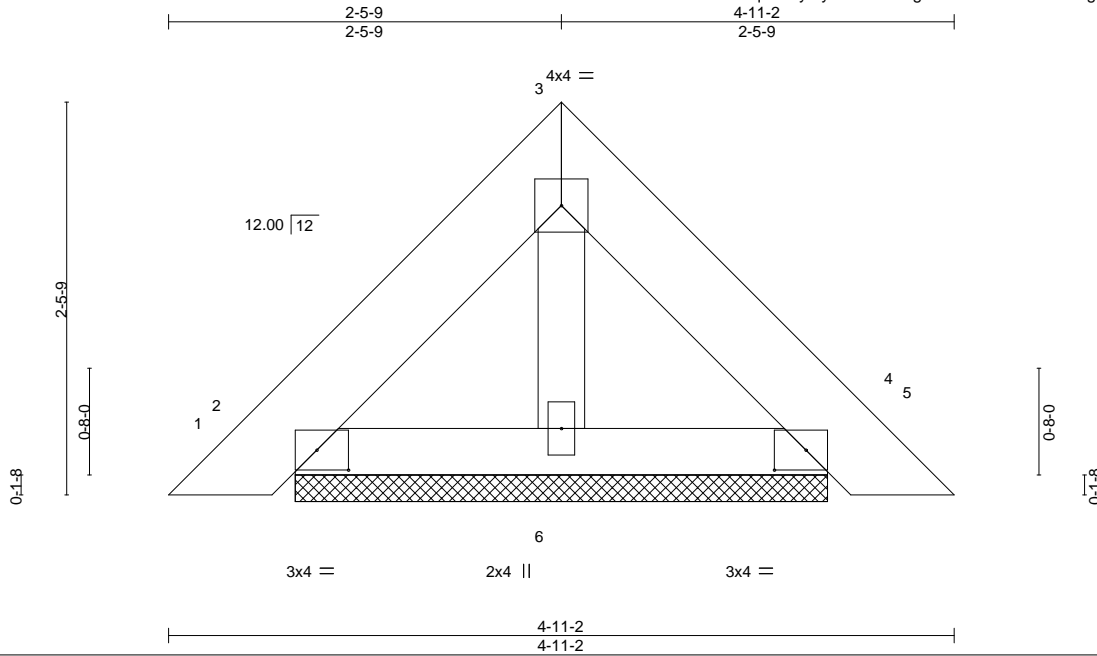
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 2100826-2100826A	Truss PB7	Truss Type Piggyback	Qty 1	Ply 2	1393 Walker RD Castio Job Reference (optional)	I49989266
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:51 2022 Page 1

ID:Mr6LQdviPukxcduzKqRJs6ymy5r-ke112oCgdKwmExoVebcGtDKTgMSkShQmCtnSeczpoC2



Scale = 1:14.4

Plate Offsets (X, Y)--	[2:0-2-6,0-1-8], [4:0-2-6,0-1-8]				
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 0.03	Vert(LL) 0.00 4 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 4 n/r 90		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.01	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 47 lb	FT = 20%

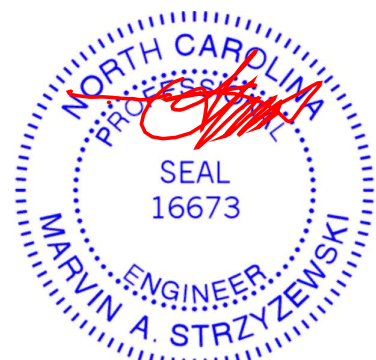
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=3-4-1, 4=3-4-1, 6=3-4-1
 Max Horz 2=-53(LC 10)
 Max Uplift 2=-62(LC 13), 4=-67(LC 13)
 Max Grav 2=298(LC 1), 4=298(LC 1), 6=176(LC 19)

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

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - N/A
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-165(F=-105), 3-5=-165(F=-105), 2-4=-20



February 1, 2022

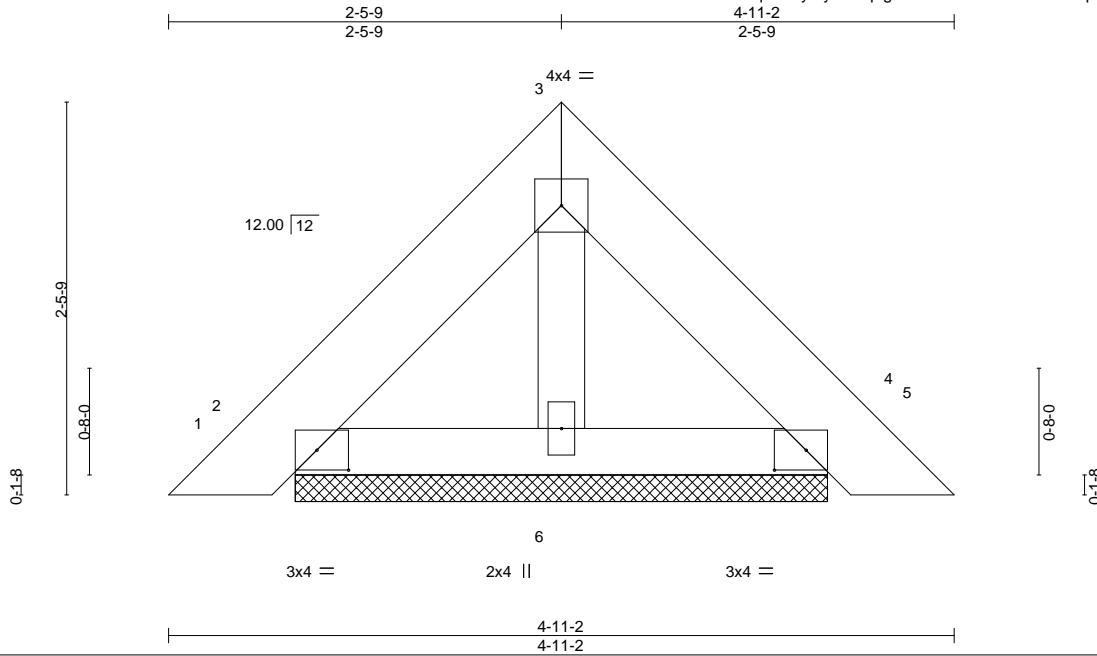
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2100826-2100826A	Truss PB7A	Truss Type Piggyback	Qty 1	Ply 2	1393 Walker RD Castio Job Reference (optional)	149989267
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:52 2022 Page 1

ID:Mr6LQdviPukxcduzKqRJs6ymy5r-CqbgF8ClOe2ds5NhCl7VQQtdpmosB8NvrXX?A2zpoC1



Scale = 1:14.4

Plate Offsets (X, Y)--	[2:0-2-6,0-1-8], [4:0-2-6,0-1-8]				
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 0.07	Vert(LL) 0.00 4 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00 4 n/r 90		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.03	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 47 lb	FT = 20%

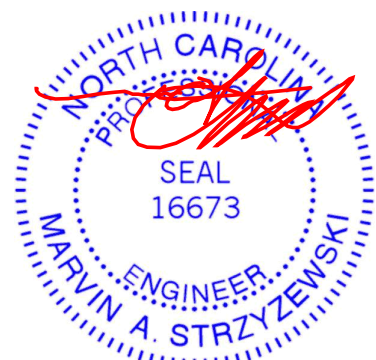
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=3-4-1, 4=3-4-1, 6=3-4-1
 Max Horz 2=-53(LC 10)
 Max Uplift 2=-138(LC 13), 4=-144(LC 13), 6=-35(LC 12)
 Max Grav 2=714(LC 1), 4=714(LC 1), 6=371(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-478/115, 3-4=-469/117
 WEBS 3-6=-330/71

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - N/A
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=405(F=-345), 3-5=-405(F=-345), 2-4=-20

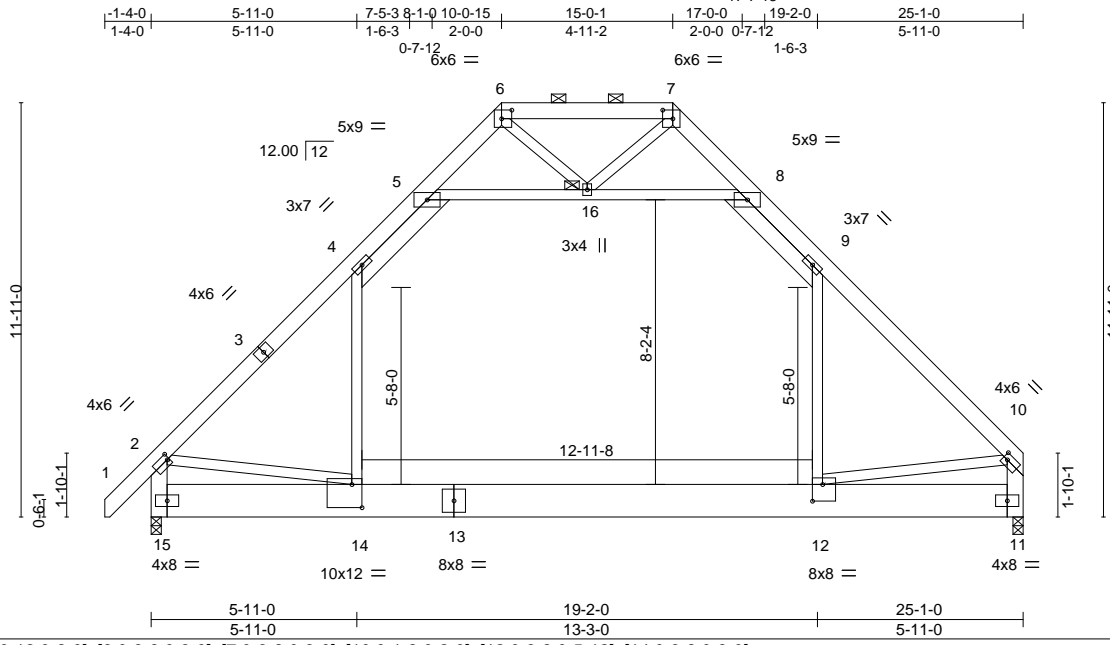


February 1, 2022

Job 2100826-2100826A	Truss T1	Truss Type ATTIC	Qty 11	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989268
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:53 2022 Page 1
ID:Mr6LQdviPukxcduzKqRJs6ymy5r-g193TUDw9xATTfYum0fkYePawA3FwWH3fBGyJuzpoc0



Scale = 1:66.3

Plate Offsets (X,Y)--	[2:0-0-12,0-2-0], [6:0-3-8,0-3-0], [7:0-3-8,0-3-0], [10:0-1-8,0-2-0], [12:0-3-8,0-5-12], [14:0-3-8,0-8-0]
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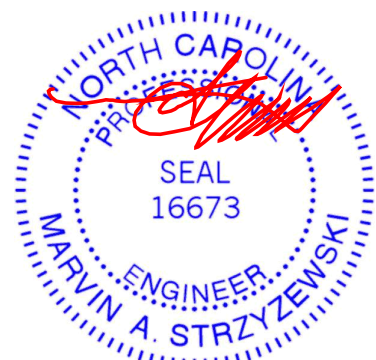
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.17 12-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.37	Vert(CT) -0.26 12-14 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 11 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.09 12-14 1674 360	Weight: 282 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 7-10: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x12 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-14,5-8,9-12: 2x4 SP No.2 or 2x4 SPF No.2, 2-15,10-11: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 15=0-3-8, 11=0-3-8
Max Horz 15=316(LC 9)
Max Grav 15=1538(LC 2), 11=1459(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1711/5, 4-5=-1016/175, 5-6=-272/128, 7-8=-278/130, 8-9=-1015/177,
9-10=-1698/0, 2-15=-1562/76, 10-11=-1503/5
BOT CHORD 14-15=-300/602, 12-14=0/1101, 11-12=-82/299
WEBS 4-14=0/821, 5-16=-1249/161, 8-16=-1239/162, 9-12=0/810, 2-14=-39/824,
10-12=-27/878

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-16, 8-16; Wall dead load (5.0psf) on member(s).4-14, 9-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
 - Bearing at joint(s) 15, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 11. This connection is for uplift only and does not consider lateral forces.
 - 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.



February 1, 2022

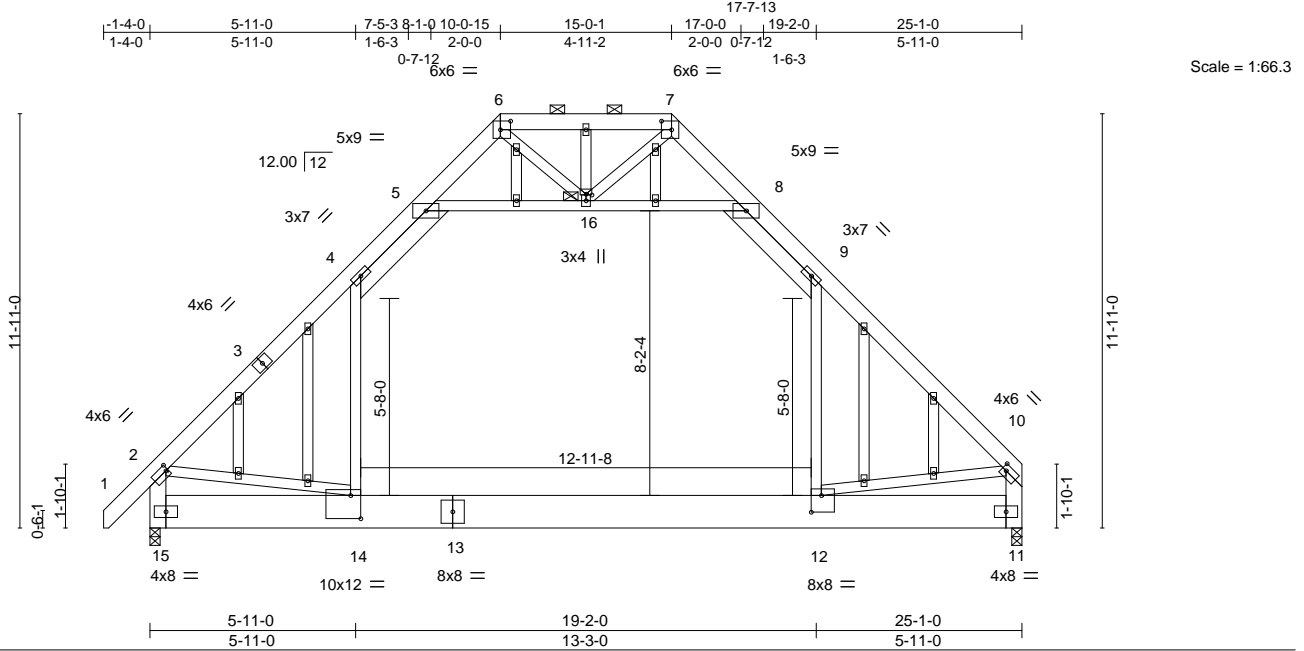
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 2100826-2100826A	Truss T1E	Truss Type GABLE	Qty 1	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989269
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:54 2022 Page 1
ID:Mr6LQdviPukxcdudzKqRJs6ymy5r-8DjRgqEYvFIK5PX4KjAzVrylfZPUfzXCUR06Fwzpc0?



Scale = 1:66.3

Plate Offsets (X,Y)--	[2:0-0-12,0-2-0], [6:0-3-8,0-3-0], [7:0-3-8,0-3-0], [10:0-1-8,0-2-0], [12:0-3-8,0-5-12], [14:0-3-8,0-8-0], [16:0-2-0,0-0-5]
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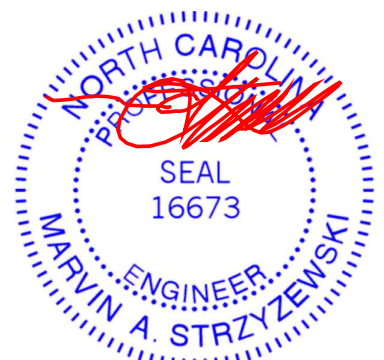
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	-0.17	12-14	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.26	12-14	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.09	12-14	1674	Weight: 310 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 7-10: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x12 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-14,5-8,9-12: 2x4 SP No.2 or 2x4 SPF No.2, 2-15,10-11: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 16
OTHERS 2x4 SP No.3	

REACTIONS. (size) 15=0-3-8, 11=0-3-8
Max Horz 15=316(LC 9)
Max Grav 15=1538(LC 2), 11=1459(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1711/5, 4-5=-1016/175, 5-6=-272/128, 7-8=-278/130, 8-9=-1015/177,
9-10=-1698/0, 2-15=-1562/76, 10-11=-1503/5
BOT CHORD 14-15=-300/602, 12-14=0/1101, 11-12=-82/299
WEBS 4-14=0/821, 5-16=-1249/161, 8-16=-1239/162, 9-12=0/810, 2-14=-39/824,
10-12=-27/878

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-16, 8-16; Wall dead load (5.0psf) on member(s).4-14, 9-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
 - Bearing at joint(s) 15, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 11. This connection is for uplift only and does not consider lateral forces.
 - 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.



February 1, 2022

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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

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

Job 2100826-2100826A	Truss T1GR	Truss Type Attic Structural Gable	Qty 1	Ply 2	1393 Walker RD Castio Job Reference (optional)	149989270
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:56 2022 Page 1

ID:Mr6LQdviPukxcduzKqRJs6ymy5r-4crB5VFpRsZ2KjhTR8CRaG1DMN4Z7wHVM9VDJpzzoBz

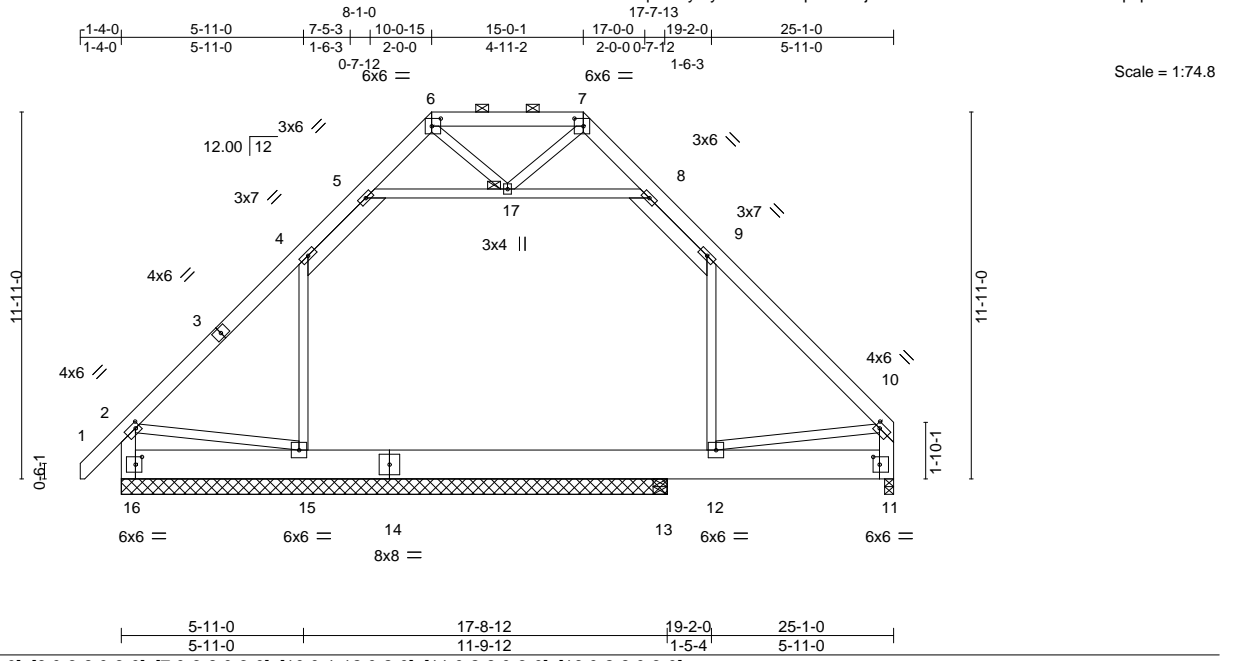


Plate Offsets (X,Y)--	[2:0-1-12,0-2-0], [6:0-3-8,0-3-0], [7:0-3-8,0-3-0], [10:0-1-12,0-2-0], [11:0-2-8,0-3-0], [16:0-2-8,0-3-0]
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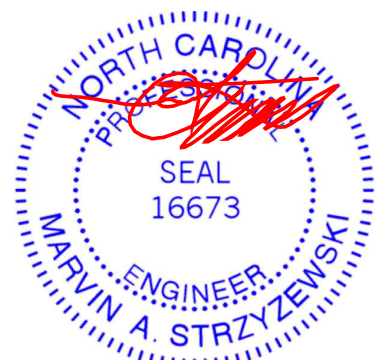
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.05	13-15	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.07	13-15	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.17	Horz(CT)	0.00	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.05	13-15	2780	Weight: 564 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, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x12 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-15,9-12,5-8: 2x4 SP No.2 or 2x4 SPF No.2, 2-16,10-11: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 17

REACTIONS. All bearings 17-8-12 except (jt=length) 11=0-3-8, 13=0-5-8.
 (lb) - Max Horz 16=316(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 16=-339(LC 8), 15=-589(LC 12), 11=-273(LC 9), 13=-567(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 16=3199(LC 22), 15=5681(LC 20), 11=3323(LC 20), 13=5776(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-16/330, 2-4=-2519/289, 4-5=-2357/328, 5-6=-1858/253, 6-7=-1240/187, 7-8=-1857/252, 8-9=-2392/331, 9-10=-2436/261, 2-16=-2804/289, 10-11=-2258/229
 BOT CHORD 15-16=-342/653, 13-15=-193/1355, 12-13=-193/1355, 11-12=-132/626
 WEBS 4-15=-1924/443, 9-12=-1915/456, 2-15=-154/1040, 10-12=-152/779

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x12 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-17, 8-17; Wall dead load (5.0psf) on member(s).4-15, 9-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15, 12-13
 - Bearing at joint(s) 16, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - N/A
 - N/A



February 1, 2022

Continued on page 2

<p>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/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>	 818 Soundside Road Edenton, NC 27932
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Job	Truss	Truss Type	Qty	Ply	1393 Walker RD Castio	I49989270
2100826-2100826A	T1GR	Attic Structural Gable	1	2	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:56 2022 Page 2
 ID:Mr6LQdviPukxcduzKqRJs6ymy5r-4crB5VFpRsZ2KjhTR8CRaG1DMN4Z7wHVM9VDJpzpoBz

NOTES-

13) N/A

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

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)

Vert: 1-2=-200(F=-140), 2-4=-200(F=-140), 4-5=-210(F=-140), 5-6=-200(F=-140), 6-7=-200(F=-140), 7-8=-200(F=-140), 8-9=-210(F=-140), 9-10=-200(F=-140),
 15-16=-195(F=-175), 12-15=-205(F=-175), 11-12=-195(F=-175), 5-8=-10
 Drag: 4-15=-10, 9-12=-10

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 2100826-2100826A	Truss T2GR	Truss Type Attic	Qty 2	Ply 2	1393 Walker RD Castio Job Reference (optional)	149989271
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:58 2022 Page 1
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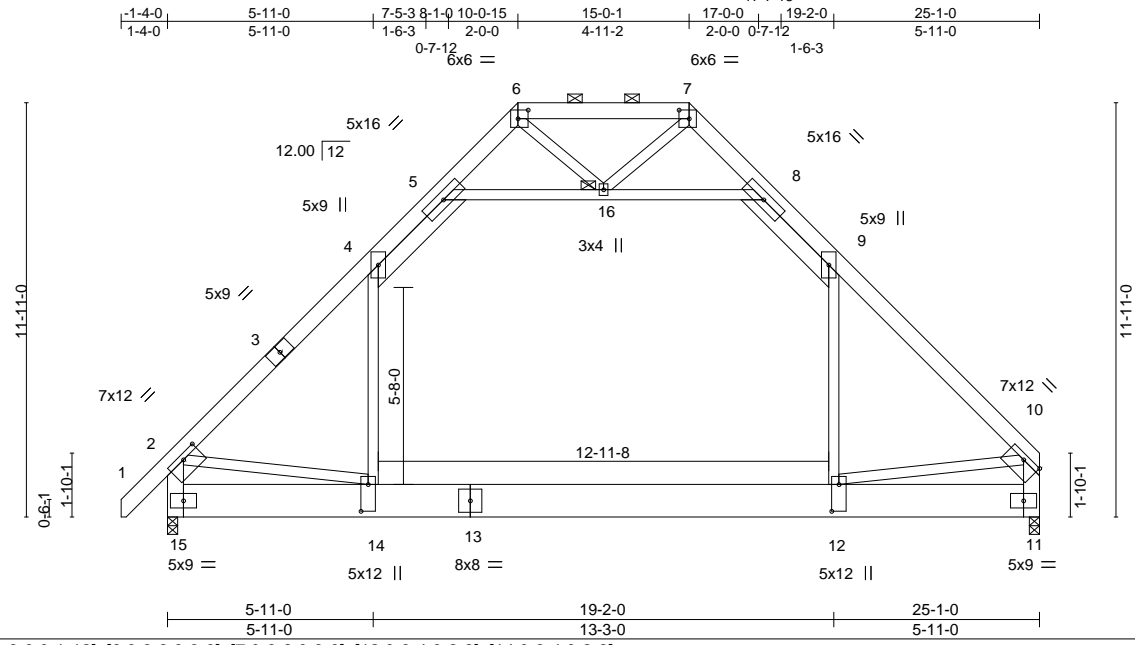


Plate Offsets (X,Y)--	[2:0-6-0,0-1-12], [6:0-3-8,0-3-0], [7:0-3-8,0-3-0], [12:0-9-4,0-2-8], [14:0-9-4,0-2-8]
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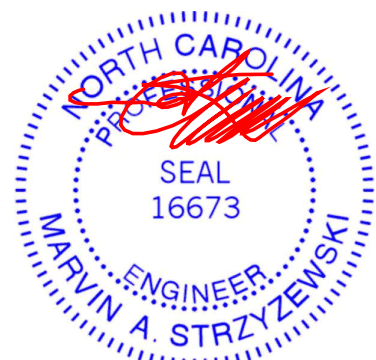
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.30	12-14	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.44	12-14	>671		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.65	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.15	12-14	1068	Weight: 564 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 6-7,4-5,8-9: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD 2x12 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-14,5-8,9-12: 2x4 SP No.2 or 2x4 SPF No.2, 2-15,10-11: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 15=0-3-8, 11=0-3-8
 Max Horz 15=316(LC 9)
 Max Uplift 15=-514(LC 12), 11=-457(LC 13)
 Max Grav 15=7322(LC 20), 11=6952(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-7204/544, 4-5=-4197/489, 5-6=-362/195, 6-7=-40/780, 7-8=-356/198,
 8-9=-4252/493, 9-10=-7276/524, 2-15=-6732/622, 10-11=-6452/518
 BOT CHORD 14-15=-425/1896, 12-14=-287/4595, 11-12=-186/1276
 WEBS 4-14=-228/3142, 5-16=-5293/585, 8-16=-5386/592, 9-12=-221/3034, 2-14=-257/3040,
 10-12=-268/3394

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x12 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-16, 8-16; Wall dead load (5.0psf) on member(s).4-14, 9-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
 - Bearing at joint(s) 15, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 11. This connection is for uplift only and does not consider lateral forces.
 - 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.



February 1, 2022

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	1393 Walker RD Castio	I49989271
2100826-2100826A	T2GR	Attic	2	2	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:58 2022 Page 2
 ID:Mr6LQdviPukxcduzKqRJs6ymy5r-1_yyWBH3zUpma0rrZZEvfh7SDBiWbiAopT_JNizpoBx

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-150(F=-90), 2-4=-150(F=-90), 4-5=-160(F=-90), 5-6=-150(F=-90), 6-7=-150(F=-90), 7-8=-150(F=-90), 8-9=-160(F=-90), 9-10=-150(F=-90),

14-15=-170(F=-150), 12-14=-180(F=-150), 11-12=-170(F=-150), 5-8=-10

Drag: 4-14=-10, 9-12=-10

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 2100826-2100826A	Truss T4	Truss Type Attic	Qty 2	Ply 1	1393 Walker RD Castio Job Reference (optional)	149989272
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:34:59 2022 Page 1
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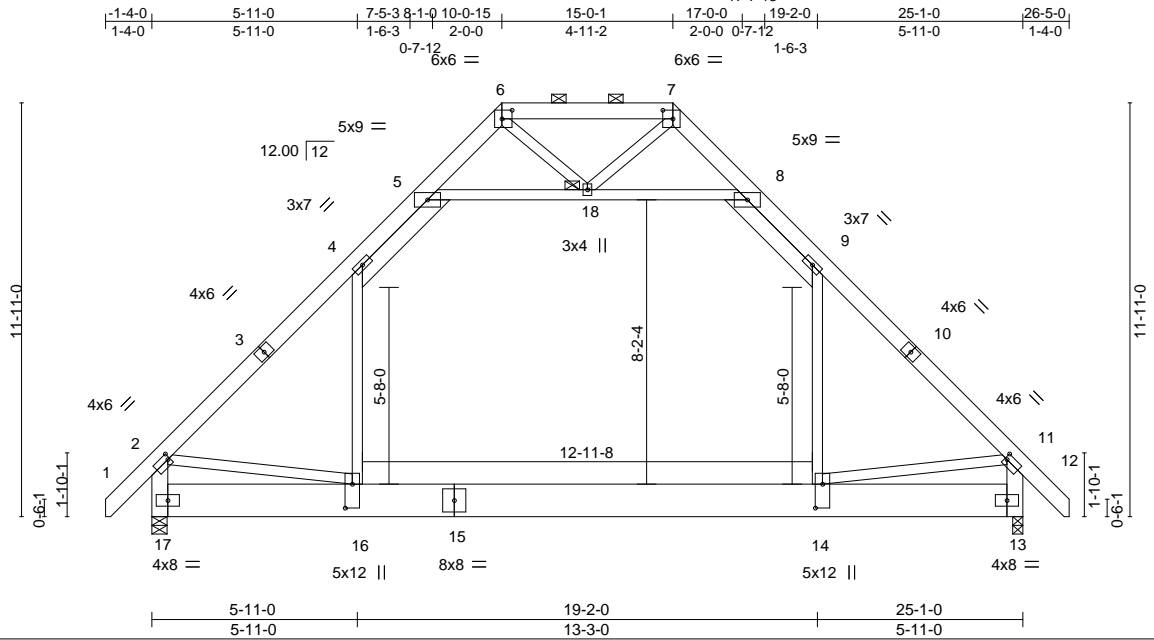


Plate Offsets (X,Y)--	[2:0-0-12,0-2-0], [6:0-3-8,0-3-0], [7:0-3-8,0-3-0], [11:0-0-12,0-2-0], [14:0-8-4,0-2-8], [16:0-8-4,0-2-8]
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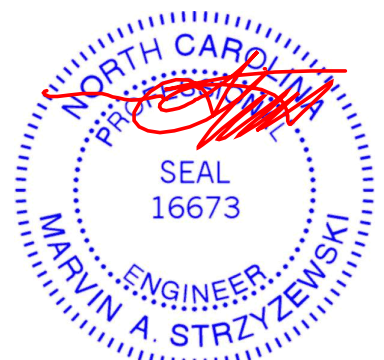
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.97	Vert(LL)	-0.18 14-16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.28 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.01 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.10 14-16	1624	360	Weight: 286 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.): 6-7.
BOT CHORD 2x12 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-16,5-8,9-14: 2x4 SP No.2 or 2x4 SPF No.2, 2-17,11-13: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 18

REACTIONS.	(size)
17=0-5-4, 13=0-3-8	
Max Horz 17=329(LC 11)	
Max Grav 17=1536(LC 2), 13=1536(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-1699/4, 4-5=-1008/175, 5-6=-278/129, 7-8=-278/129, 8-9=-1008/175, 9-11=-1699/0, 2-17=-1553/74, 11-13=-1553/74
BOT CHORD	16-17=-285/625, 14-16=0/1109, 13-14=-88/401
WEBS	4-16=0/818, 5-18=-1228/156, 8-18=-1228/156, 9-14=0/818, 2-16=-43/812, 11-14=-51/815

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCdL=6.0psf; BCdL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-18, 8-18; Wall dead load (5.0psf) on member(s).4-16, 9-14
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16
 - 8) Bearing at joint(s) 17, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 13. This connection is for uplift only and does not consider lateral forces.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Attic room checked for L/360 deflection.



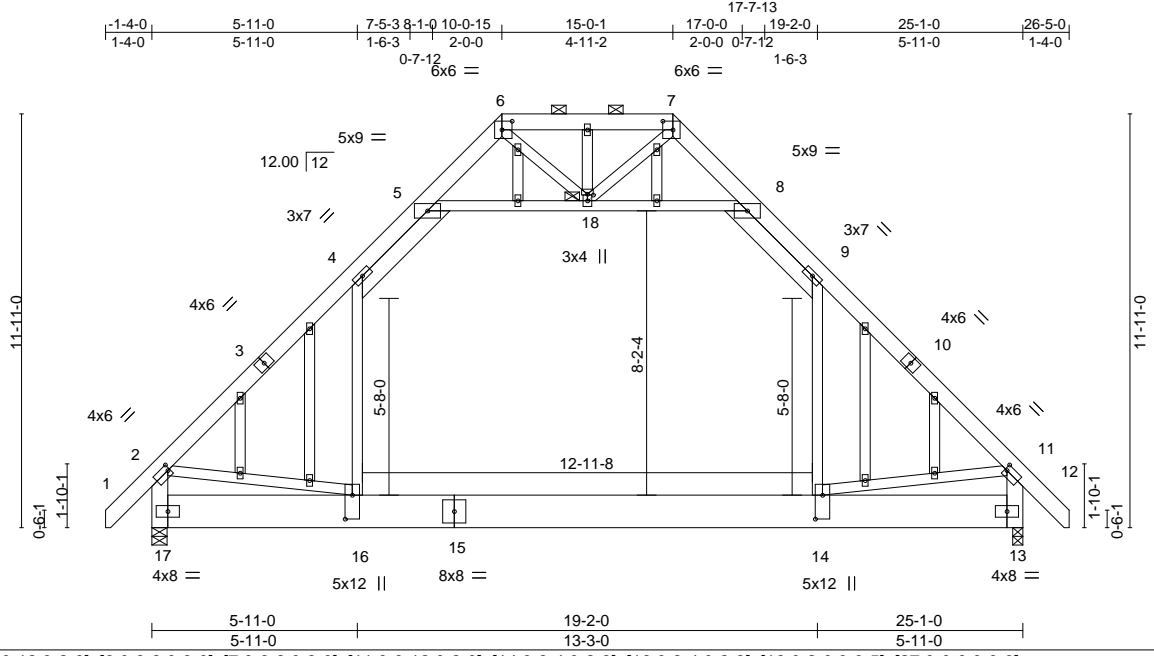
February 1, 2022

<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>818 Soundside Road Edenton, NC 27932</p>
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Job 2100826-2100826A	Truss T4E	Truss Type GABLE	Qty 1	Ply 1	1393 Walker RD Castio	149989273
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:35:00 2022 Page 1
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Scale = 1:66.4

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 0.97	Vert(LL)	-0.18 14-16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.28 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.01 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.10 14-16	1624	360	Weight: 314 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.): 6-7.
BOT CHORD 2x12 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	JOINTS 1 Brace at Jt(s): 18
OTHERS 4-16,5-8,9-14: 2x4 SP No.2 or 2x4 SPF No.2, 2-17,11-13: 2x6 SP No.2	
2x4 SP No.3	

REACTIONS. (size) 17=0-5-4, 13=0-3-8
 Max Horz 17=329(LC 10)
 Max Grav 17=1536(LC 2), 13=1536(LC 2)

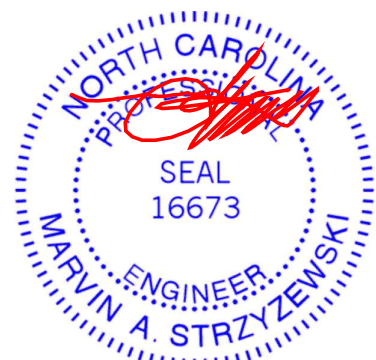
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-1699/4, 4-5=-1008/175, 5-6=-278/129, 7-8=-278/129, 8-9=-1008/175, 9-11=-1699/0, 2-17=-1553/74, 11-13=-1553/74

BOT CHORD 16-17=-285/625, 14-16=0/1109, 13-14=-88/401

WEBS 4-16=0/818, 5-18=-1228/156, 8-18=-1228/156, 9-14=0/818, 2-16=-43/812, 11-14=-51/815

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-18, 8-18; Wall dead load (5.0psf) on member(s).4-16, 9-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16
 - Bearing at joint(s) 17, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 13. This connection is for uplift only and does not consider lateral forces.
 - 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.



February 1, 2022

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

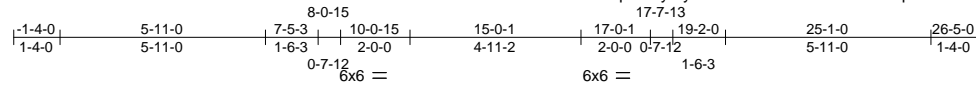
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 2100826-2100826A	Truss T4GR	Truss Type ATTIC	Qty 1	Ply 4	1393 Walker RD Castio Job Reference (optional)	149989274
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:35:02 2022 Page 1
ID:Mr6LQdviPukxcduzKqRJs6ymy5r-vICSMZKa1iJC3e8coPjrqXH8Co4eXVeOk5yXWTzpoBt



Scale = 1:66.4

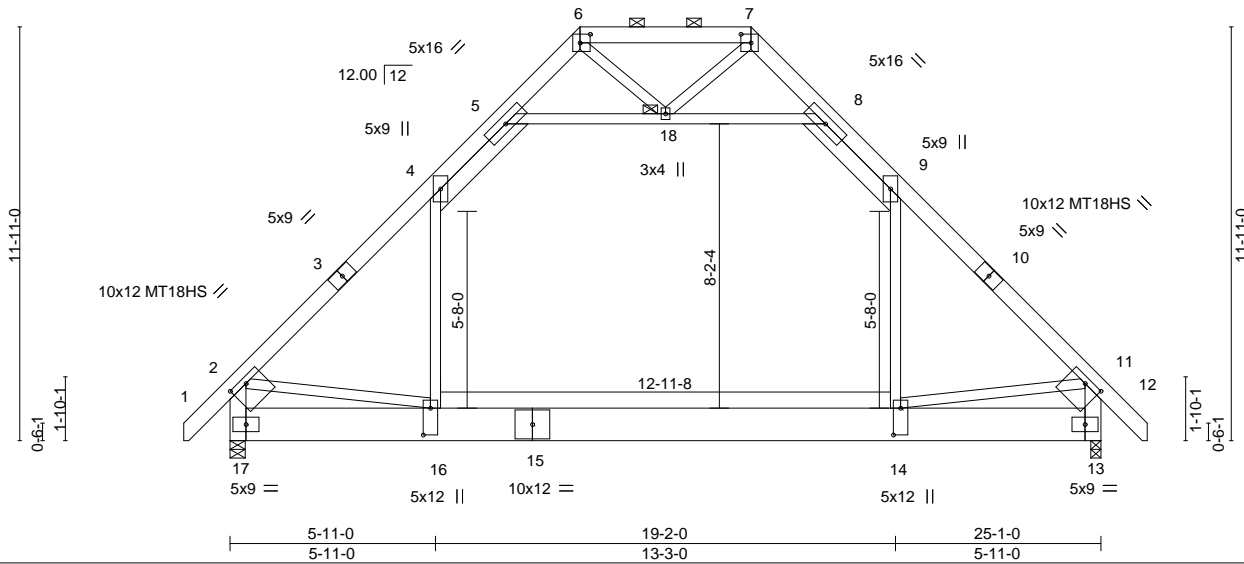


Plate Offsets (X,Y)--	[2:0-5-12,0-2-0], [6:0-3-8,0-3-0], [7:0-3-8,0-3-0], [11:0-5-12,0-2-0], [14:0-9-4,0-2-8], [16:0-9-4,0-2-8]
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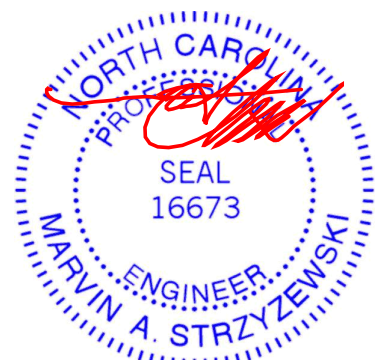
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL)	-0.33 14-16	>896	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.48 14-16	>611	180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT)	0.01 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.17 14-16	963	360		
								Weight: 1145 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 6-7,4-5,8-9: 2x6 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 (10-0-0 max.): 6-7.
BOT CHORD 2x12 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-16,5-8,9-14: 2x4 SP No.2 or 2x4 SPF No.2, 2-17,11-13: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 18

REACTIONS. (size) 17=0-5-4, 13=0-3-8
 Max Horz 17=-329(LC 10)
 Max Uplift 17=-1456(LC 12), 13=-1456(LC 13)
 Max Grav 17=16977(LC 20), 13=16935(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-37/528, 2-4=-16553/1514, 4-5=-9606/1050, 5-6=-577/262, 6-7=-126/1689,
 7-8=-580/262, 8-9=-9642/1050, 9-11=-16727/1514, 11-12=-37/528, 2-17=-15426/1523,
 11-13=-15527/1523
 BOT CHORD 16-17=-621/4067, 14-16=-836/10379, 13-14=-418/3770
 WEBS 4-16=-617/7077, 5-18=-12015/1280, 8-18=-12072/1280, 9-14=-617/7191, 2-16=-617/6688,
 11-14=-625/6756

- NOTES-**
- 1) 4-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
 Bottom chords connected as follows: 2x12 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Attach TC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
 Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
 - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 3) Unbalanced roof live loads have been considered for this design.
 - 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-18, 8-18; Wall dead load (5.0psf) on member(s).4-16, 9-14
 - 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16
 - 11) Bearing at joint(s) 17, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify compatibility of bearing surface.



February 1, 2022

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	1393 Walker RD Castio	I49989274
2100826-2100826A	T4GR	ATTIC	1	4	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:35:02 2022 Page 2
ID:Mr6LQdviPukxcduzKqRJs6ymy5r-vICSMZKa1iJC3e8coPJrqXH8Co4eXVeOk5yXWTzpoBt

NOTES-

- 12) LGT4-SDS3 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 13. This connection is for uplift only and does not consider lateral forces.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) LGT4 Hurricane ties must have four studs in line below the truss.
- 15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-300(F=-240), 2-4=-300(F=-240), 4-5=-310(F=-240), 5-6=-300(F=-240), 6-7=-300(F=-240), 7-8=-300(F=-240), 8-9=-310(F=-240), 9-11=-300(F=-240), 11-12=-300(F=-240), 16-17=-420(F=-400), 14-16=-430(F=-400), 13-14=-420(F=-400), 5-8=-10
Drag: 4-16=-10, 9-14=-10

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 2100826-2100826A	Truss T5GR	Truss Type ATTIC STRUCTURAL GAB	Qty 1	Ply 3	1393 Walker RD Castio Job Reference (optional)	149989275
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:35:04 2022 Page 1
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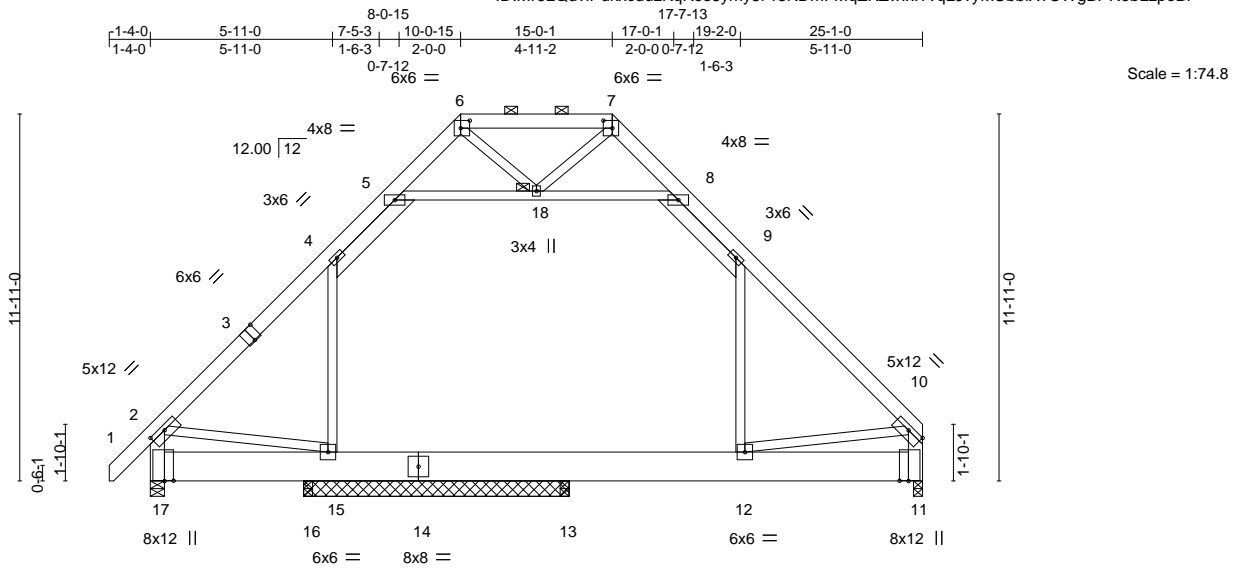


Plate Offsets (X,Y)--	[2:0-6-0,0-1-12], [3:0-3-0,Edge], [6:0-3-8,0-3-0], [7:0-3-8,0-3-0], [11:0-0-2,0-3-8], [17:0-0-2,0-3-8]
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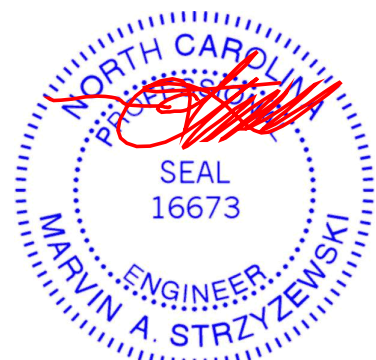
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.13	12	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.20	11-12	>688		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.13	12-13	1053	Weight: 847 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x12 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-15,9-12,5-8: 2x4 SP No.2 or 2x4 SPF No.2, 2-17,10-11: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 18

REACTIONS. All bearings 0-3-8 except (jt=length) 13=0-6-6 (input: 0-3-8), 15=8-7-8, 17=0-5-8.
 (lb) - Max Horz 17=317(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 15=-392(LC 11), 17=-1058(LC 8), 11=-1131(LC 13), 16=-706(LC 13), 13=-1128(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 15=546(LC 20), 17=10882(LC 22), 11=12965(LC 20), 16=5112(LC 20), 13=12162(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-65/805, 2-4=-8786/902, 4-5=-7149/835, 5-6=-4041/470, 6-7=-2106/271, 7-8=-4055/472, 8-9=-6992/828, 9-10=-8812/775, 2-17=-9147/951, 10-11=-7892/741
 BOT CHORD 16-17=-454/2094, 15-16=-454/2094, 13-15=-488/5076, 12-13=-488/5076, 11-12=-363/2839
 WEBS 4-15=-2313/502, 9-12=-2019/443, 5-18=-2973/442, 8-18=-2869/417, 2-15=-392/3358, 10-12=-278/2298

- NOTES-**
- 3-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc.
 Bottom chords connected as follows: 2x12 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-18, 8-18; Wall dead load (5.0psf) on member(s).4-15, 9-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15, 12-13
 - WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
 - Bearing at joint(s) 17, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



February 1, 2022

Job 2100826-2100826A	Truss T5GR	Truss Type ATTIC STRUCTURAL GAB	Qty 1	Ply 3	1393 Walker RD Castio I49989275 Job Reference (optional)
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 15:35:05 2022 Page 2
ID:Mr6LQdviPukxcduzKqRJs6ymy5r-KKub_aMSKdhnw5tBTXsYRAvL?5mkxmqQ3AB7ozpoBq

NOTES-

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-440(F=-240, B=-140), 2-4=-440(F=-240, B=-140), 4-5=-450(F=-240, B=-140), 5-6=-440(F=-240, B=-140), 6-7=-440(F=-240, B=-140), 7-8=-440(F=-240, B=-140), 8-9=-450(F=-240, B=-140), 9-10=-440(F=-240, B=-140), 15-17=-420(F=-400), 13-15=-430(F=-400), 12-13=-505(F=-400, B=-75), 11-12=-495(F=-400, B=-75), 5-8=-10
 Drag: 4-15=-10, 9-12=-10

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

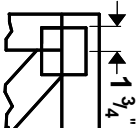
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



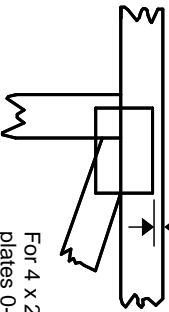
818 Soundside Road
Edenton, NC 27932

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



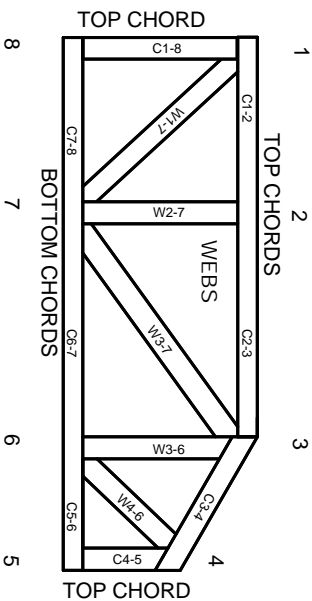
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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