

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Quote_file
Santoni - Fieldcrest F

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: I50471786 thru I50471809

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

North Carolina COA: C-0844



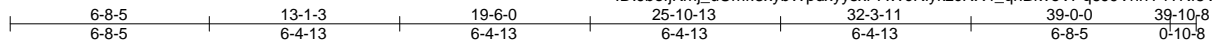
March 1, 2022

Gilbert, Eric

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	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471786
QUOTE_FILE	A	Common	7	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:41 2022 Page 1
 ID:JbofjKmj_uUmfl3xybWpdxxyysxr-AWcRlykzrRX4_qhBkvoVPq6J9VnhY4TNf5VSG7zggB0



6x6 =

Scale = 1:77.5

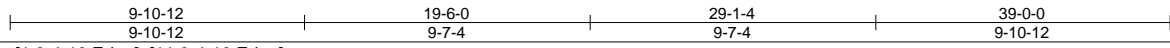
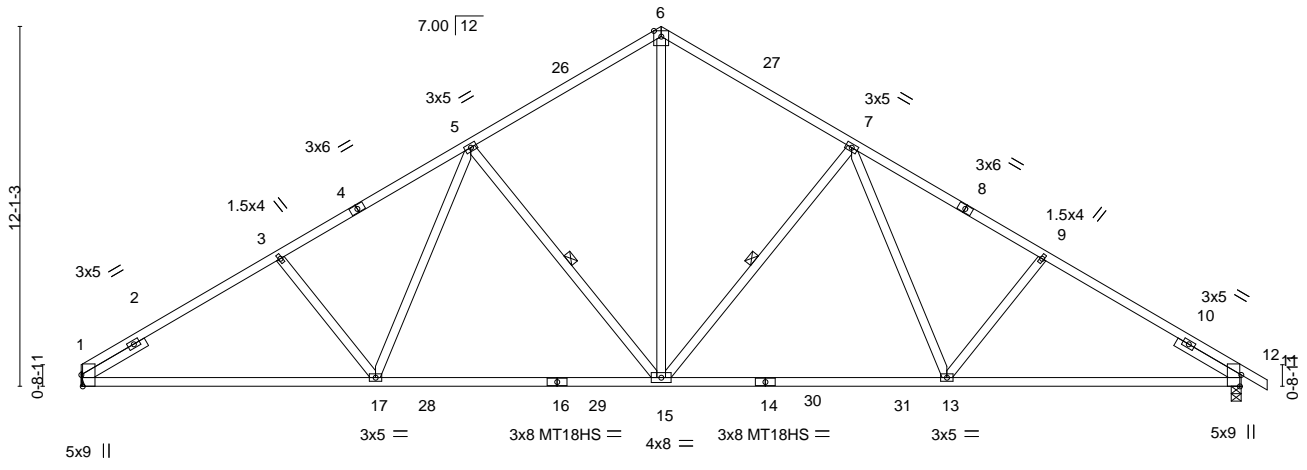


Plate Offsets (X, Y)--	[1:0-4-10,Edge], [11:0-4-10,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP		
TCLL 20.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) -0.34 13-15 >999 240	MT20	197/144		
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.57 13-15 >815 180	MT18HS	197/144		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT) 0.13 11 n/a n/a			Weight: 170 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-3 oc purlins.
BOT CHORD 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud	WEBS 1 Row at midpt 7-15, 5-15
SLIDER Left 2x4 SPF Stud 2-6-0, Right 2x4 SPF Stud 2-6-0	

REACTIONS. (size) 1=Mechanical, 11=0-4-0
 Max Horz 1=-290(LC 8)
 Max Uplift 1=-245(LC 10), 11=-266(LC 11)
 Max Grav 1=1810(LC 17), 11=1860(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-2766/404, 3-5=-2611/402, 5-6=-1865/377, 6-7=-1866/377, 7-9=-2608/401, 9-11=-2763/403
 BOT CHORD 1-17=-438/2527, 15-17=-271/2117, 13-15=-139/1970, 11-13=-238/2302
 WEBS 6-15=-213/1483, 7-15=-796/311, 7-13=-72/630, 9-13=-284/229, 5-15=-798/311, 5-17=-72/634, 3-17=-286/230

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-6-0, Exterior(2R) 16-6-0 to 22-6-0, Interior(1) 22-6-0 to 36-10-8, Exterior(2E) 36-10-8 to 39-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 1 and 266 lb uplift at joint 11.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471787
QUOTE_FILE	AG	COMMON GIRDER	1	3	Job Reference (optional)	

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

8,530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:42 2022 Page 1
 ID:JbofjKmj_uUmf13xybWpdxysxr-eiAqylkbNkfb_FNHcJkx1fYXuC9HWIWIIEOoZzggB?



4x6 ||

Scale = 1:70.8

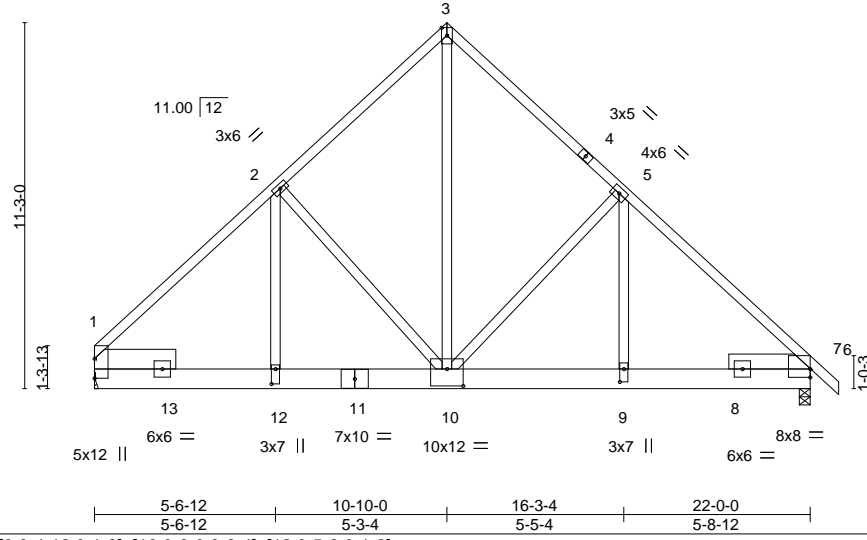


Plate Offsets (X, Y)--	[6:0-0-0,0-3-1], [9:0-4-12,0-1-8], [10:0-6-0,0-6-4], [12:0-5-8,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.08 10-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.65	Vert(CT) -0.17 10-12 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 6 n/a n/a		
	Code IRC2018/TPI2014			Weight: 471 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SPF Stud *Except* 3-10: 2x4 SPF No.2	6-0-0 oc bracing: 1-12.
SLIDER Left 2x8 SP No.1 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0	

REACTIONS. (size) 1=Mechanical, 6=0-4-0 (req. 0-4-3)
 Max Horz 1=-265(LC 4)
 Max Uplift 1=-1337(LC 8), 6=-1354(LC 9)
 Max Grav 1=8020(LC 15), 6=8032(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-8928/1531, 2-3=-6848/1284, 3-5=-6859/1283, 5-6=-9440/1613
 BOT CHORD 1-12=-1141/6629, 10-12=-1141/6629, 9-10=-1102/6909, 6-9=-1102/6909
 WEBS 2-12=-447/2867, 2-10=-2318/585, 3-10=-1577/8836, 5-10=-2834/671, 5-9=-550/3505

- NOTES-**
- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) WARNING: Required bearing size at joint(s) 6 greater than input bearing size.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1337 lb uplift at joint 1 and 1354 lb uplift at joint 6.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Girder carries tie-in span(s): 34-0-0 from 2-0-0 to 20-0-0

LOAD CASE(S) Standard

Continued on page 2



March 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	Santoni - Fieldcrest F	I50471787
QUOTE_FILE	AG	COMMON GIRDER	1	3	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:42 2022 Page 2
 ID:JbofjKmj_uUmfl3xybWpdxysxr-eiAqylkbnkfbx_FNHcJkx1fYXuC9HWIWtIE0oZzggB?

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-7=-60, 13-14=-100(F=-80), 8-13=-737(F=-717), 8-18=-100(F=-80)

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471788
QUOTE_FILE	AGE	GABLE	1	1	Job Reference (optional)	

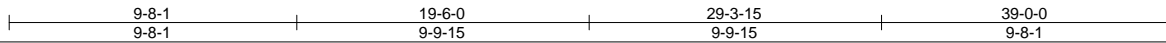
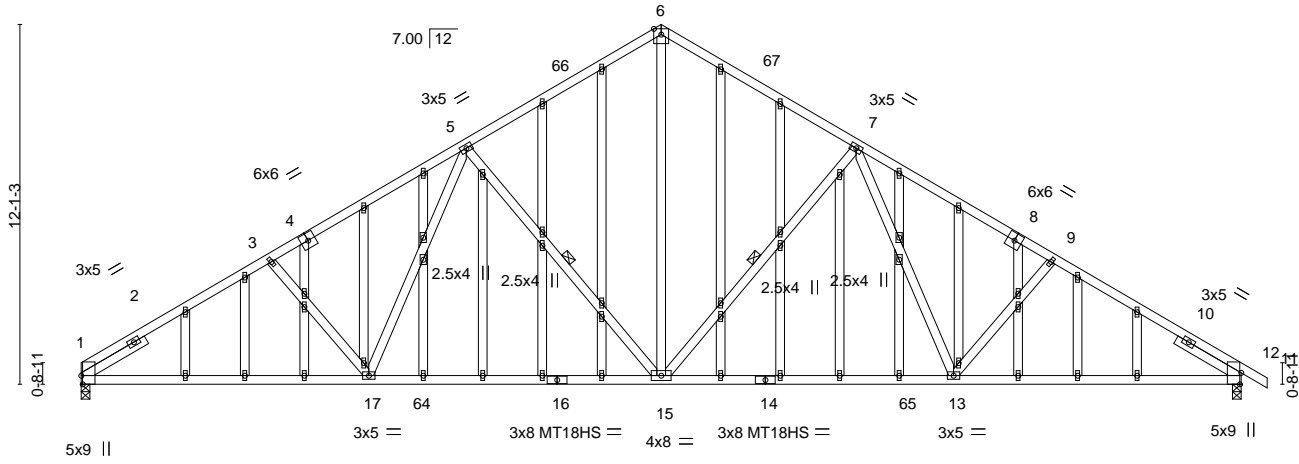
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:45 2022 Page 1



6x6 =

Scale = 1:77.5



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 0.71	Vert(LL)	-0.36	13-15	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.61	13-15	>769	180	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.13	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS							
									Weight: 281 lb	FT = 20%

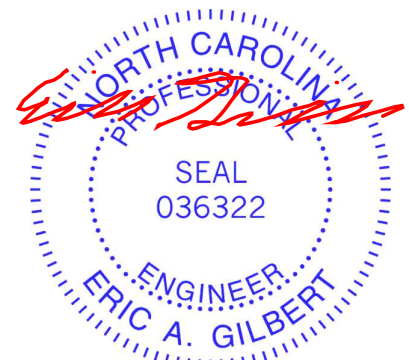
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 SPF Stud
 OTHERS 2x4 SPF Stud
 SLIDER Left 2x4 SPF Stud 2-6-0, Right 2x4 SPF Stud 2-6-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-5-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-15, 7-15

REACTIONS. (size) 1=0-3-8, 11=0-3-8
 Max Horz 1=-290(LC 6)
 Max Uplift 1=-245(LC 10), 11=-266(LC 11)
 Max Grav 1=1807(LC 17), 11=1857(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-2774/407, 3-5=-2619/399, 5-6=-1865/375, 6-7=-1865/375, 7-9=-2616/398, 9-11=-2770/406
 BOT CHORD 1-17=-445/2535, 15-17=-277/2125, 13-15=-141/1973, 11-13=-245/2311
 WEBS 3-17=-275/226, 5-17=-63/618, 5-15=-798/314, 6-15=-208/1475, 7-15=-796/314, 7-13=-63/615, 9-13=-272/225

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-6-0, Exterior(2R) 16-6-0 to 22-6-0, Interior(1) 22-6-0 to 36-10-8, Exterior(2E) 36-10-8 to 39-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 1.5x4 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 1 and 266 lb uplift at joint 11.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

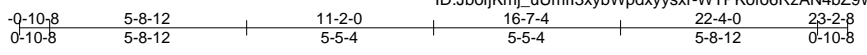


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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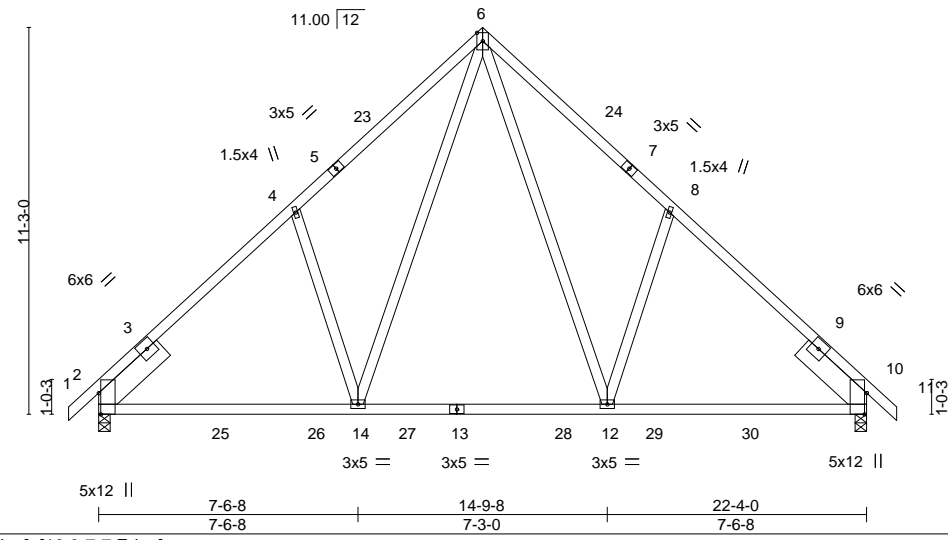
Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471789
QUOTE_FILE	B	Common	3	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:46 2022 Page 1



4x6 ||

Scale = 1:67.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.10 12-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.64	Vert(CT) -0.16 12-14 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 10 n/a n/a		
	Code IRC2018/TPI2014			Weight: 118 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud	
SLIDER Left 2x8 SP No.1 2-6-0, Right 2x8 SP No.1 2-6-0	

REACTIONS. (size) 2=0-4-0, 10=0-4-0
 Max Horz 2=-273(LC 8)
 Max Uplift 2=-135(LC 10), 10=-135(LC 11)
 Max Grav 2=1090(LC 17), 10=1090(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1132/193, 4-6=-1082/322, 6-8=-1082/322, 8-10=-1132/193
 BOT CHORD 2-14=-161/934, 12-14=-15/636, 10-12=-51/812
 WEBS 6-12=-237/649, 8-12=-309/311, 6-14=-237/649, 4-14=-309/311

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-2-0, Exterior(2R) 8-2-0 to 14-2-0, Interior(1) 14-2-0 to 20-2-8, Exterior(2E) 20-2-8 to 23-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 2 and 135 lb uplift at joint 10.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 1, 2022

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Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471790
QUOTE_FILE	B1	Common	3	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:46 2022 Page 1

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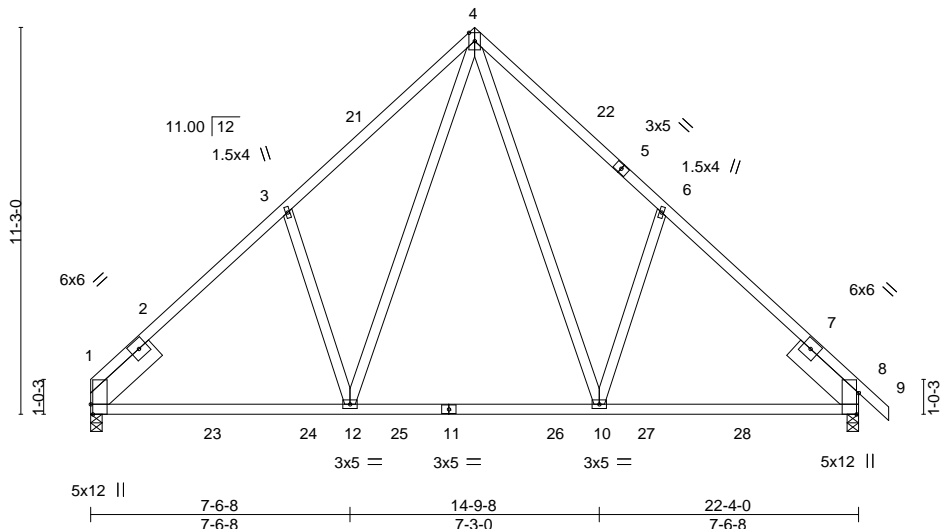


Plate Offsets (X,Y)--	[1:0-3-8,Edge], [8:0-7-7,Edge]
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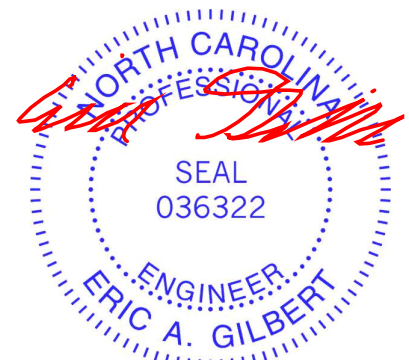
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.10 10-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.65	Vert(CT) -0.16 10-12 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 116 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-15 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud	
SLIDER Left 2x8 SP No.1 2-6-0, Right 2x8 SP No.1 2-6-0	

REACTIONS.
(size) 1=0-4-0, 8=0-4-0
Max Horz 1=-266(LC 6)
Max Uplift 1=-113(LC 10), 8=-135(LC 11)
Max Grav 1=1040(LC 17), 8=1091(LC 18)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1134/193, 3-4=-1086/323, 4-6=-1083/322, 6-8=-1133/193
BOT CHORD 1-12=-161/937, 10-12=-14/637, 8-10=-51/812
WEBS 4-10=-237/648, 6-10=-309/311, 4-12=-237/653, 3-12=-311/312

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-2-0, Exterior(2R) 8-2-0 to 14-2-0, Interior(1) 14-2-0 to 20-2-8, Exterior(2E) 20-2-8 to 23-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 1 and 135 lb uplift at joint 8.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 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	Santoni - Fieldcrest F	I50471791
QUOTE_FILE	BG	Common Girder	1	2	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:48 2022 Page 1

ID:JbofjKmj_uUmf13xybWpdxysxr-TsX5DLpMzaQ5JvjXetQ8BlvYNJDthAqPGghK?DzggAv



4x8 ||

Scale = 1:62.0

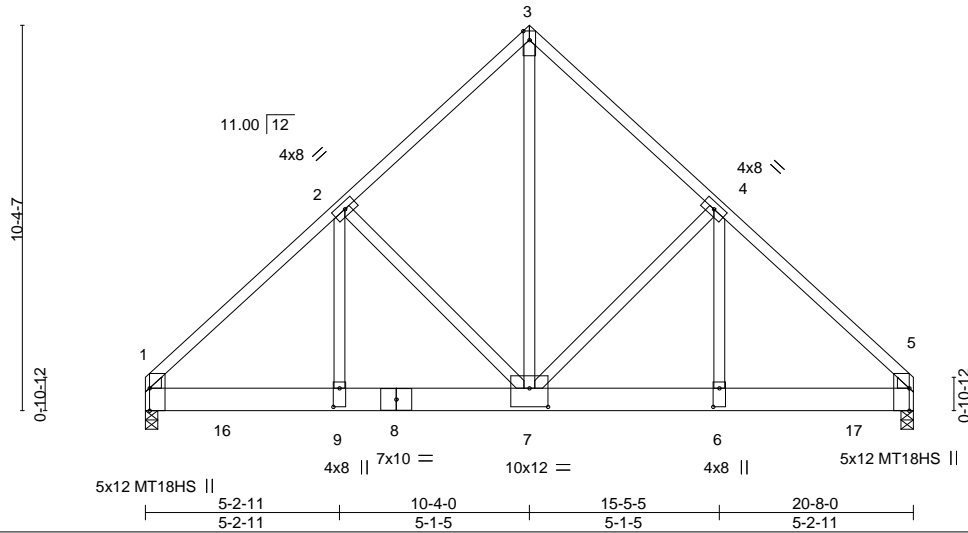


Plate Offsets (X, Y)-- [1:0-7-4,Edge], [5:0-7-4,Edge], [6:0-6-0,0-2-0], [7:0-6-0,0-6-0], [9:0-6-0,0-2-0]

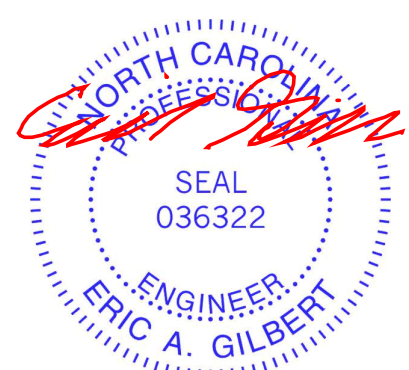
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.10	7-9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.20	7-9	>999	180	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(CT)	0.03	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS							
									Weight: 268 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins.
BOT CHORD 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud *Except* 3-7: 2x4 SPF No.2	
WEDGE Left: 2x4 SPF Stud , Right: 2x4 SPF Stud	

REACTIONS. (size) 1=0-4-0 (req. 0-5-5), 5=0-4-0 (req. 0-5-7)
 Max Horz 1=234(LC 5)
 Max Uplift 1=-1076(LC 8), 5=-1108(LC 9)
 Max Grav 1=6740(LC 15), 5=6937(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-8205/1351, 2-3=-5984/1087, 3-4=-5984/1087, 4-5=-8280/1362
 BOT CHORD 1-9=-1032/6104, 7-9=-1032/6104, 6-7=-936/6046, 5-6=-936/6046
 WEBS 3-7=-1317/7682, 4-7=-2466/579, 4-6=-451/3036, 2-7=-2383/565, 2-9=-432/2927

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-8-0 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 1, 5 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1076 lb uplift at joint 1 and 1108 lb uplift at joint 5.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Girder carries tie-in span(s): 34-0-0 from 2-0-0 to 19-0-0



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

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 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	I50471791
QUOTE_FILE	BG	Common Girder	1	2	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:48 2022 Page 2
 ID:JbofjKmj_uUmfl3xybWpdxysxr-TsX5DLpMzaQ5JvjXetQ8BlvYNJDthAqPGghK?DzggAv

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 10-16=-20, 16-17=-653(F=-633), 13-17=-20

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

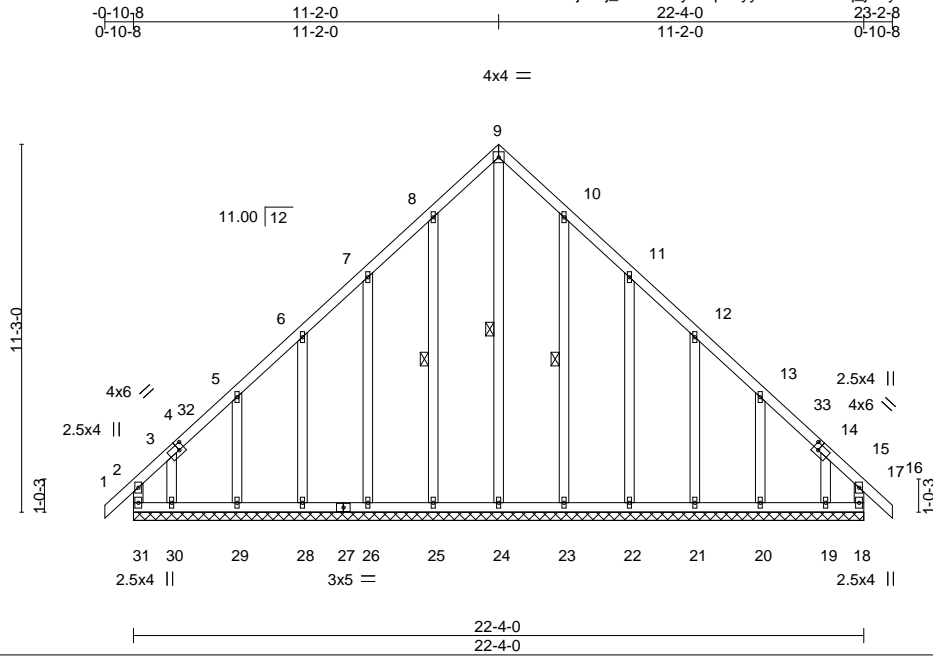
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471792
QUOTE_FILE	BGE	Common Supported Gable	1	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:49 2022 Page 1
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Scale = 1:70.5

Plate Offsets (X, Y)--	[4:0-2-0,0-2-4], [14:0-2-0,0-2-4]				
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 0.21	Vert(LL) -0.00 17 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.00 17 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.01 18 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 136 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud	WEBS 1 Row at midpt 9-24, 8-25, 10-23
OTHERS 2x4 SPF Stud	

REACTIONS. All bearings 22-4-0.
 (lb) - Max Horz 31=302(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 25, 29, 23, 20 except 31=-213(LC 8), 18=-153(LC 9), 26=-108(LC 10), 28=-104(LC 10), 30=-254(LC 10), 22=-109(LC 11), 21=-103(LC 11), 19=-237(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 18, 25, 26, 28, 29, 23, 22, 21, 20, 19 except 31=299(LC 7), 24=333(LC 11), 30=251(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-274/238, 7-8=-151/280, 8-9=-197/361, 9-10=-197/361, 10-11=-151/280
 WEBS 9-24=-405/161

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 8-2-0, Corner(3R) 8-2-0 to 14-2-0, Exterior(2N) 14-2-0 to 20-2-8, Corner(3E) 20-2-8 to 23-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 29, 23, 20 except (jt=lb) 31=213, 18=153, 26=108, 28=104, 30=254, 22=109, 21=103, 19=237.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 1, 2022

Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471793
QUOTE_FILE	C	FAN	6	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:51 2022 Page 1

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0-10-8	5-7-10	11-2-13	16-10-0	22-5-3	28-0-6	33-8-0	34-6-8
0-10-8	5-7-10	5-7-3	5-7-3	5-7-3	5-7-3	5-7-10	0-10-8

4x6 ||

Scale = 1:67.0

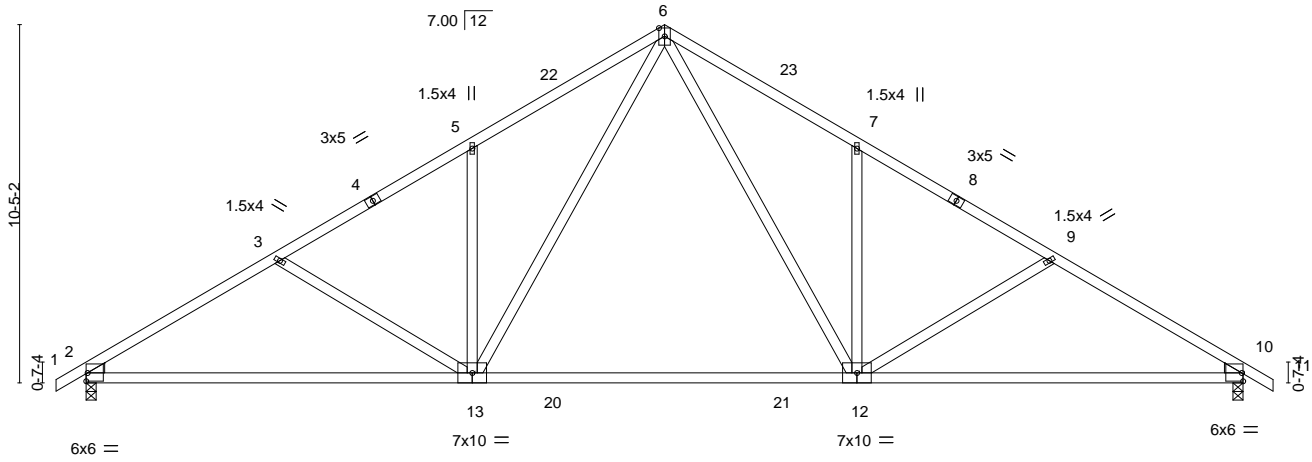


Plate Offsets (X, Y)--	[2:Edge,0-2-14], [10:Edge,0-2-14]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.93	Vert(LL) -0.59 12-13 >683 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.77	Vert(CT) -0.88 12-13 >462 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.08 10 n/a n/a		
	Code IRC2018/TPI2014			Weight: 142 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF Stud
WEDGE
Left: 2x4 SPF Stud, Right: 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-255(LC 8)
Max Uplift 2=-233(LC 10), 10=-233(LC 11)
Max Grav 2=1600(LC 17), 10=1600(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2396/369, 3-5=-2117/308, 5-6=-2170/454, 6-7=-2170/454, 7-9=-2117/308,
9-10=-2397/369
BOT CHORD 2-13=-393/2185, 12-13=-77/1349, 10-12=-221/1994
WEBS 5-13=-392/272, 7-12=-392/272, 3-13=-325/210, 6-13=-281/1154, 6-12=-281/1154,
9-12=-325/210

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-10-0, Exterior(2R) 13-10-0 to 19-10-0, Interior(1) 19-10-0 to 31-6-8, Exterior(2E) 31-6-8 to 34-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=233, 10=233.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

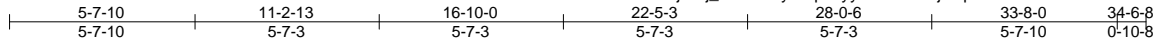


March 1, 2022

Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471794
QUOTE_FILE	C1	FAN	5	1	Job Reference (optional)	

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

8,530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:52 2022 Page 1
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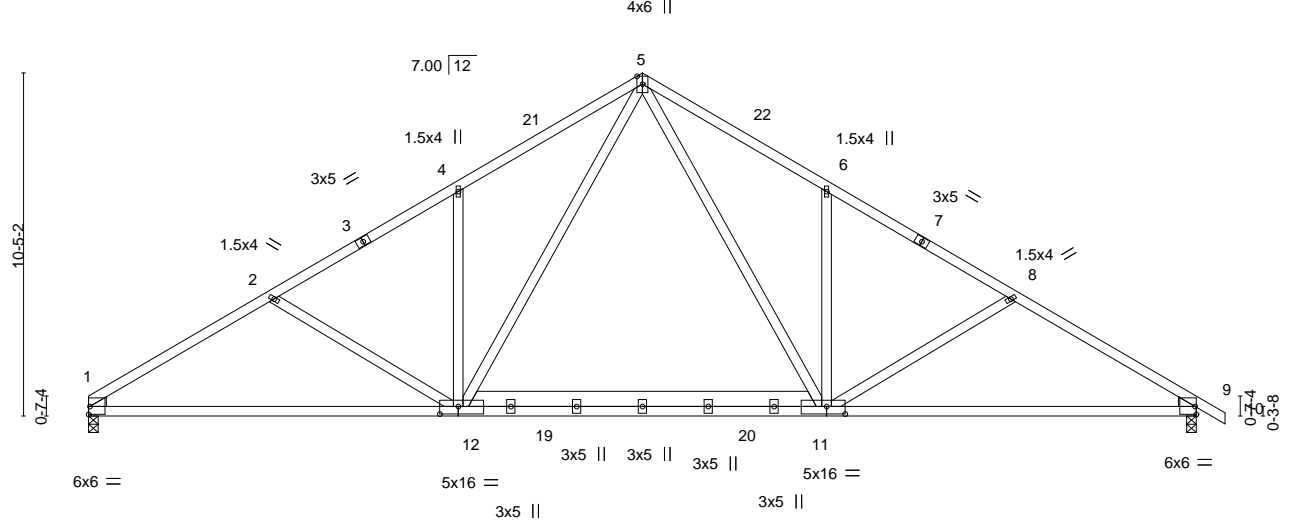


Plate Offsets (X, Y)--	[1:Edge,0-2-14], [9:Edge,0-2-14], [11:0-6-12,0-2-12], [12:0-6-12,0-2-12]
------------------------	--

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 0.37	Vert(LL) -0.24 12-15 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT) -0.49 12-15 >827 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.08 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 160 lb	FT = 20%

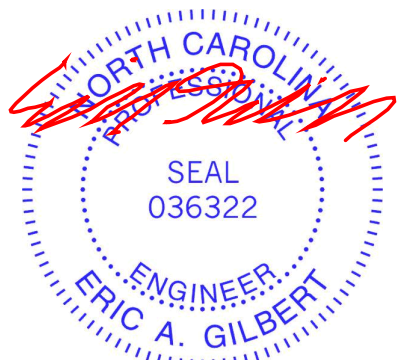
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF 1650F 1.5E *Except*
 11-12: 2x6 SPF 1650F 1.5E
 WEBS 2x4 SPF Stud
 WEDGE
 Left: 2x4 SPF Stud , Right: 2x4 SPF Stud

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

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=-251(LC 6)
 Max Uplift 1=-211(LC 10), 9=-233(LC 11)
 Max Grav 1=1546(LC 17), 9=1596(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2459/386, 2-4=-2156/311, 4-5=-2189/446, 5-6=-2179/439, 6-8=-2146/309,
 8-9=-2449/378
 BOT CHORD 1-12=-409/2248, 11-12=-76/1376, 9-11=-229/2046
 WEBS 4-12=-381/266, 6-11=-381/266, 2-12=-345/215, 5-12=-276/1158, 5-11=-271/1150,
 8-11=-342/214

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-10-0, Exterior(2R) 13-10-0 to 19-10-0, Interior(1) 19-10-0 to 31-6-8, Exterior(2E) 31-6-8 to 34-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=211, 9=233.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 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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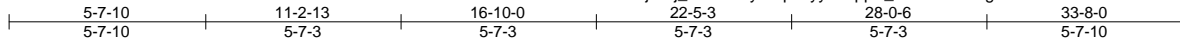
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471795
QUOTE_FILE	C2	FAN	10	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:53 2022 Page 1

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4x6 ||

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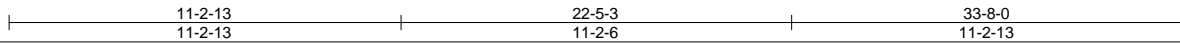
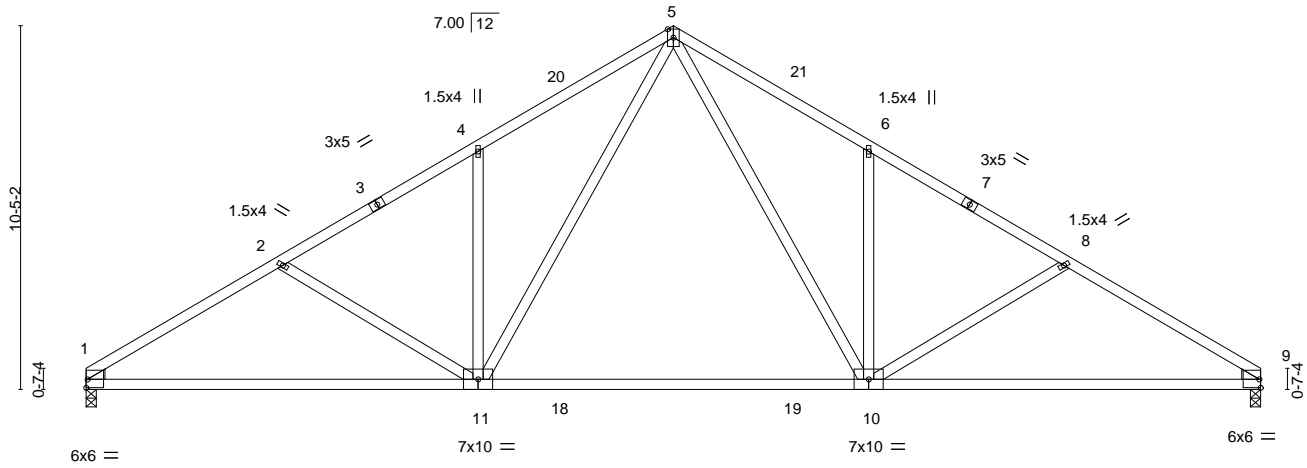


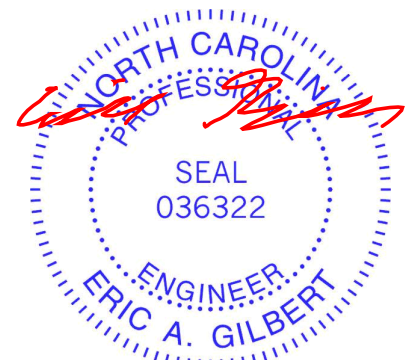
Plate Offsets (X, Y)--	[1:Edge,0-2-14], [9:Edge,0-2-14]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) -0.59 10-11 >683 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -0.87 10-11 >463 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT) 0.08 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 140 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-9 oc purlins.
BOT CHORD 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SPF Stud	
WEDGE	
Left: 2x4 SPF Stud, Right: 2x4 SPF Stud	

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=-243(LC 6)
 Max Uplift 1=-212(LC 10), 9=-212(LC 11)
 Max Grav 1=1550(LC 17), 9=1550(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2402/371, 2-4=-2121/311, 4-5=-2173/455, 5-6=-2173/455, 6-8=-2121/311, 8-9=-2402/371
 BOT CHORD 1-11=-404/2185, 10-11=-86/1345, 9-10=-240/2004
 WEBS 4-11=-391/272, 6-10=-391/271, 2-11=-329/211, 5-11=-282/1156, 5-10=-282/1156, 8-10=-329/212

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-10-0, Exterior(2R) 13-10-0 to 19-10-0, Interior(1) 19-10-0 to 30-8-0, Exterior(2E) 30-8-0 to 33-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=212, 9=212.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 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	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471796
QUOTE_FILE	CG	Common Girder	1	2	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:54 2022 Page 1

ID:JbofjKmj_uUmfl3xybWpdxysxr-H0uMUOu7YQAE1qAh_7XYQZ9dBkJo5wdHec8eCszggAp



4x8 ||

Scale = 1:46.2

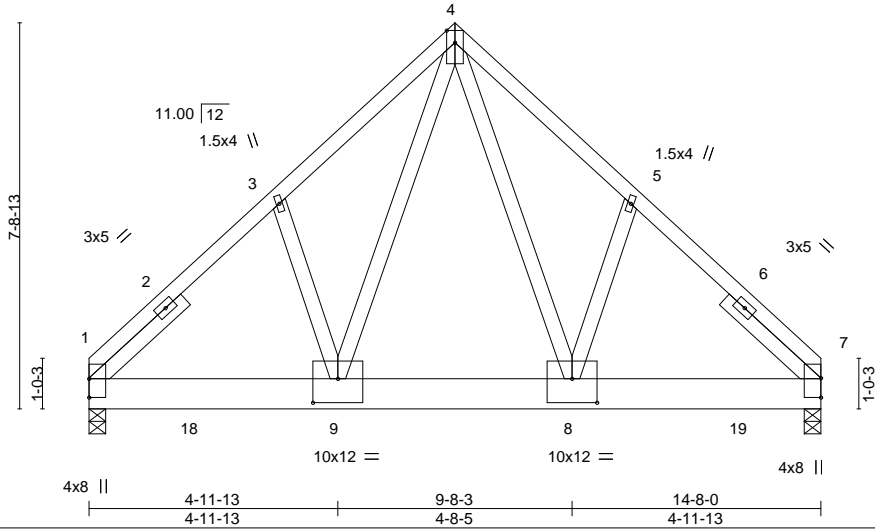


Plate Offsets (X,Y)--	[8:0-6-0,0-5-12], [9:0-6-0,0-5-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.06	8-9	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.12	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 198 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud
SLIDER Left 2x4 SPF Stud 2-6-0, Right 2x4 SPF Stud 2-6-0

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

REACTIONS. (size) 1=0-4-0, 7=0-4-0 (req. 0-4-1)
Max Horz 1=166(LC 7)
Max Uplift 1=-795(LC 8), 7=-829(LC 9)
Max Grav 1=4989(LC 15), 7=5196(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-5751/962, 3-4=-5639/1029, 4-5=-5712/1041, 5-7=-5820/974
BOT CHORD 1-9=-714/4223, 8-9=-456/3040, 7-8=-656/4204
WEBS 4-8=-750/4007, 4-9=-722/3835, 3-9=-78/253

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 7 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=795, 7=829.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Girder carries tie-in span(s): 39-0-0 from 2-0-0 to 13-0-0

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 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/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	Santoni - Fieldcrest F	I50471796
QUOTE_FILE	CG	Common Girder	1	2	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:54 2022 Page 2
 ID:JbofjKmj_uUmf13xybWpdxysxr-H0uMUOu7YQAE1qAh_7XYQZ9dBkJo5wdHec8eCszggAp

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 10-18=-20, 18-19=-753(F=-733), 14-19=-20

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471797
QUOTE_FILE	CGE	Common Supported Gable	1	1	Job Reference (optional)	

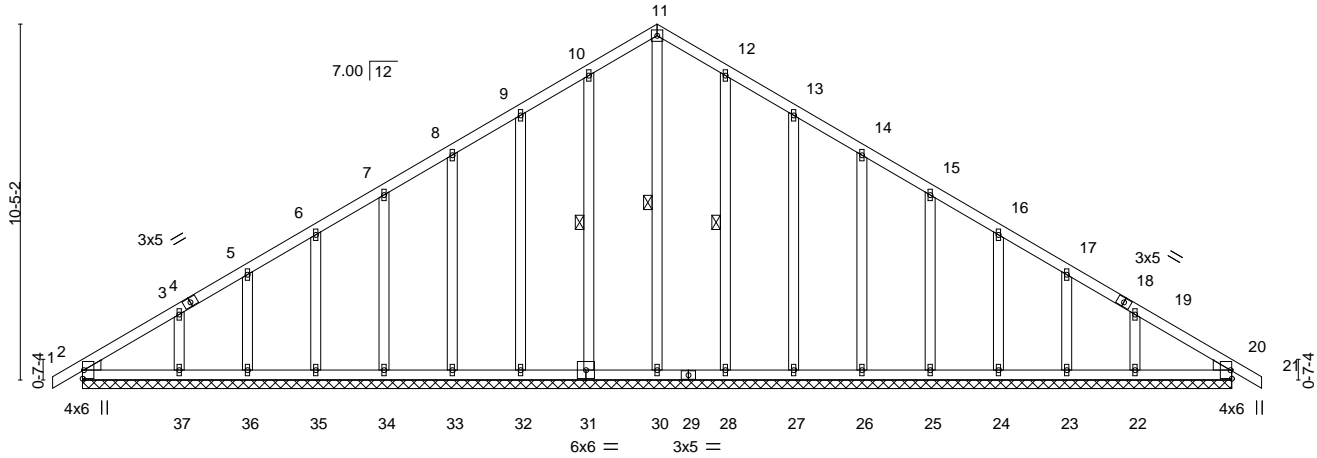
84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:55 2022 Page 1
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4x4 =

Scale = 1:67.5



33-8-0
33-8-0

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 0.08	Vert(LL)	0.00	20	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	21	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	20	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S							
									Weight: 181 lb	FT = 20%

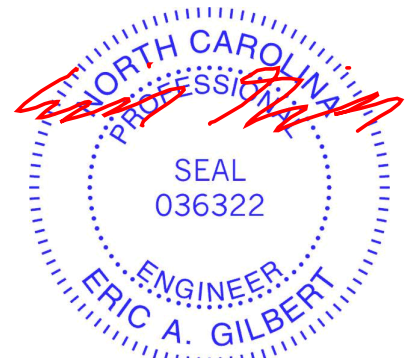
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x4 SPF Stud
 WEDGE
 Left: 2x4 SPF Stud , Right: 2x4 SPF Stud

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.
 WEBS 1 Row at midpt 11-30, 10-31, 12-28

REACTIONS. All bearings 33-8-0.
 (lb) - Max Horz 2=255(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 20 except 37=-111(LC 10), 22=-105(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 2, 30, 31, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24, 23, 22, 20

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 13-10-0, Corner(3R) 13-10-0 to 19-10-0, Exterior(2N) 19-10-0 to 31-6-8, Corner(3E) 31-6-8 to 34-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 20 except (jt=lb) 37=111, 22=105.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 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	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471798
QUOTE_FILE	D	Common	4	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:56 2022 Page 1
 ID:JbofjKmj_uUmf13xybWpdxysxr-EO06u4vN42QyH8K46YZOV_EqKY0DZx_a5wdIHzzgAn



4x6 =

Scale = 1:46.3

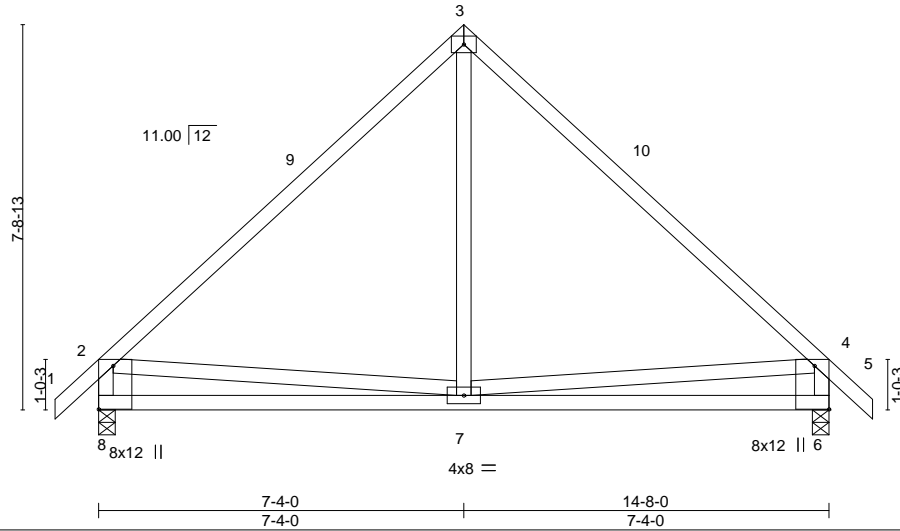


Plate Offsets (X, Y)-- [6:Edge,0-3-8], [8:Edge,0-3-8]

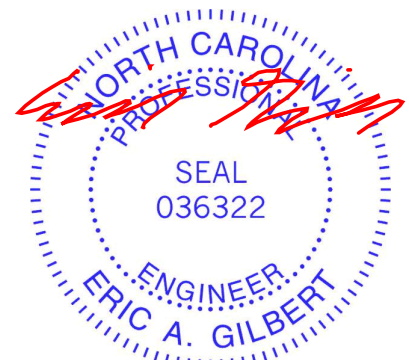
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.05 7-8 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.26	Vert(CT) -0.11 7-8 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2018/TPI2014			Weight: 68 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-4-1 oc bracing.
WEBS 2x4 SPF Stud	

REACTIONS. (size) 8=0-4-0, 6=0-4-0
 Max Horz 8=215(LC 9)
 Max Uplift 8=-96(LC 10), 6=-96(LC 11)
 Max Grav 8=636(LC 1), 6=636(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-577/155, 3-4=-577/155, 2-8=-573/208, 4-6=-573/208
 BOT CHORD 7-8=-393/558, 6-7=-297/403
 WEBS 3-7=0/316, 2-7=-231/418, 4-7=-240/422

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-4-0, Exterior(2R) 4-4-0 to 10-4-0, Interior(1) 10-4-0 to 12-6-8, Exterior(2E) 12-6-8 to 15-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 1, 2022

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Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471799
QUOTE_FILE	D1	Common	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:57 2022 Page 1
 ID:JbofjKmj_uUmfl3xybWpdxysxr-ibaU6Qw?rLYpulvGgG4F2Cn0AxMTIPNjKaNIpBzggAm



4x6 =

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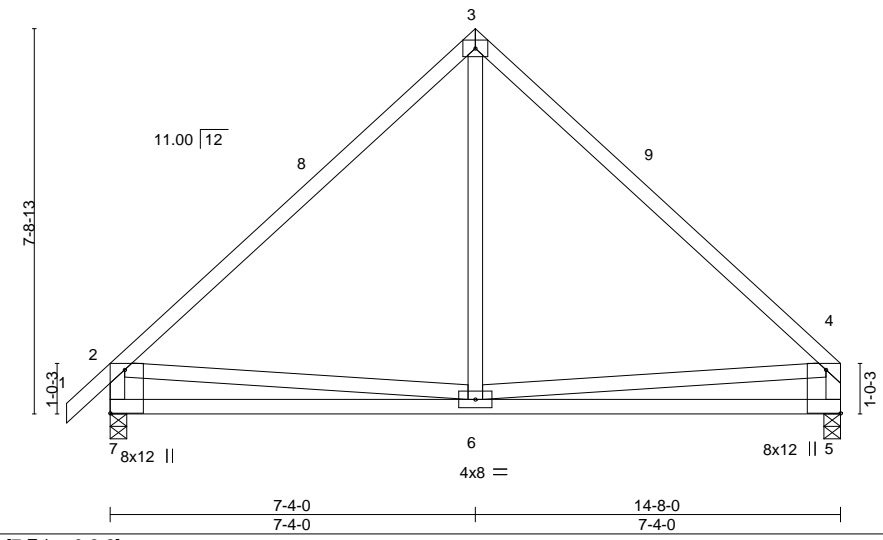


Plate Offsets (X, Y)-- [5:Edge,0-3-8], [7:Edge,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.05	6-7	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.11	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 67 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-2-9 oc bracing.
WEBS 2x4 SPF Stud	

REACTIONS. (size) 7=0-4-0, 5=0-4-0
 Max Horz 7=207(LC 7)
 Max Uplift 7=-96(LC 10), 5=-72(LC 10)
 Max Grav 7=638(LC 1), 5=573(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-580/156, 3-4=-571/147, 2-7=-575/208, 4-5=-510/161
 BOT CHORD 6-7=-404/543, 5-6=-188/280
 WEBS 3-6=0/311, 2-6=-232/413, 4-6=-141/279

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-4-0, Exterior(2R) 4-4-0 to 10-4-0, Interior(1) 10-4-0 to 11-6-4, Exterior(2E) 11-6-4 to 14-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 1, 2022

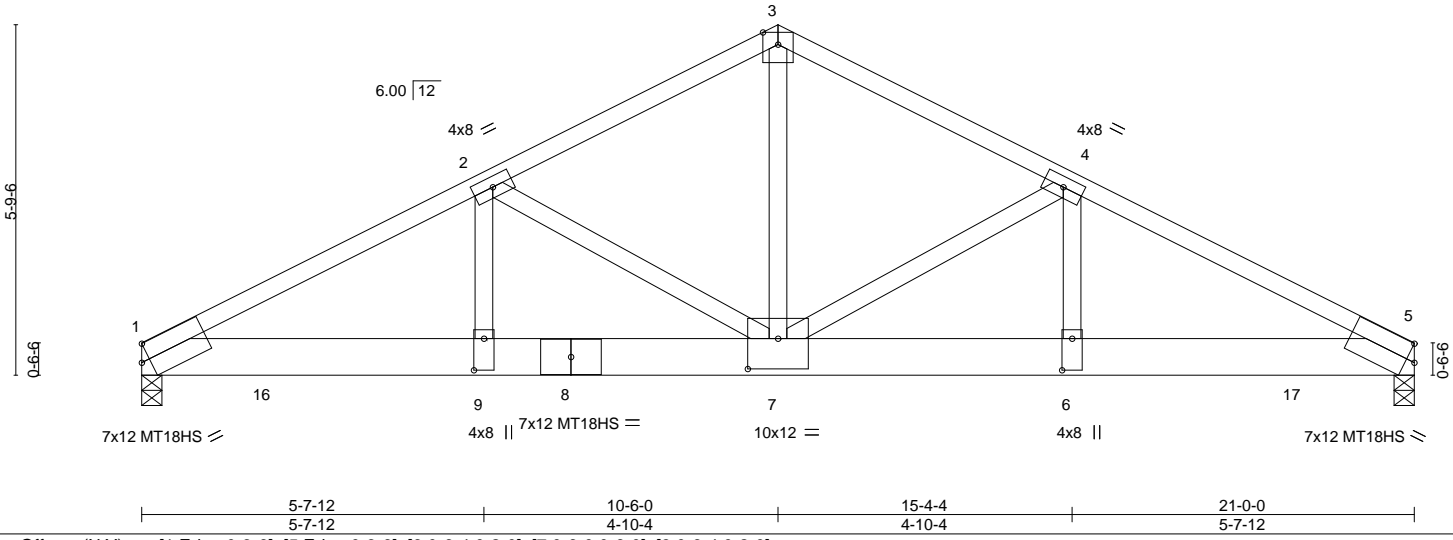
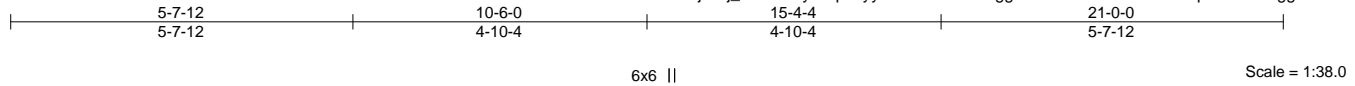
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471800
QUOTE_FILE	DG	Common Girder	1	2	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:58 2022 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.96	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.94	Vert(LL) -0.16 7-9 >999 240	MT18HS	197/144
BCLL 0.0 *	Lumber DOL 1.15	WB 0.88	Vert(CT) -0.31 7-9 >802 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.07 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 230 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud *Except*
3-7: 2x4 SPF No.2

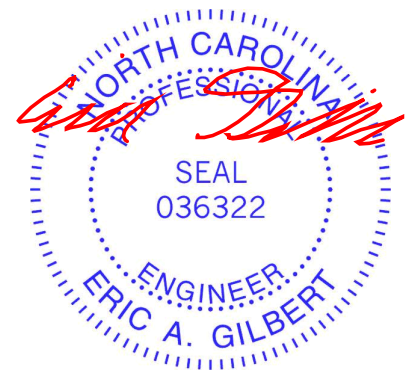
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-4-0 (req. 0-5-5), 5=0-4-0 (req. 0-5-5)
Max Horz 1=-88(LC 9)
Max Uplift 1=-1122(LC 8), 5=-1122(LC 9)
Max Grav 1=6801(LC 15), 5=6801(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-12793/2105, 2-3=-9167/1535, 3-4=-9167/1535, 4-5=-12793/2106
BOT CHORD 1-9=-1902/11452, 7-9=-1902/11452, 6-7=-1815/11404, 5-6=-1815/11404
WEBS 3-7=-1255/7908, 4-7=-3778/729, 4-6=-478/3330, 2-7=-3777/728, 2-9=-477/3330

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-8-0 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 1, 5 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1122, 5=1122.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Girder carries tie-in span(s): 34-0-0 from 2-0-0 to 19-0-0

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

Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	I50471800
QUOTE_FILE	DG	Common Girder	1	2	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:58 2022 Page 2
 ID:JbofjKmj_uUmfl3xybWpdxysxr-An8tJmxecfggWRUSDzbUbpJ9sLaH1iptZE6sLezggAl

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 10-16=-20, 16-17=-653(F=-633), 13-17=-20

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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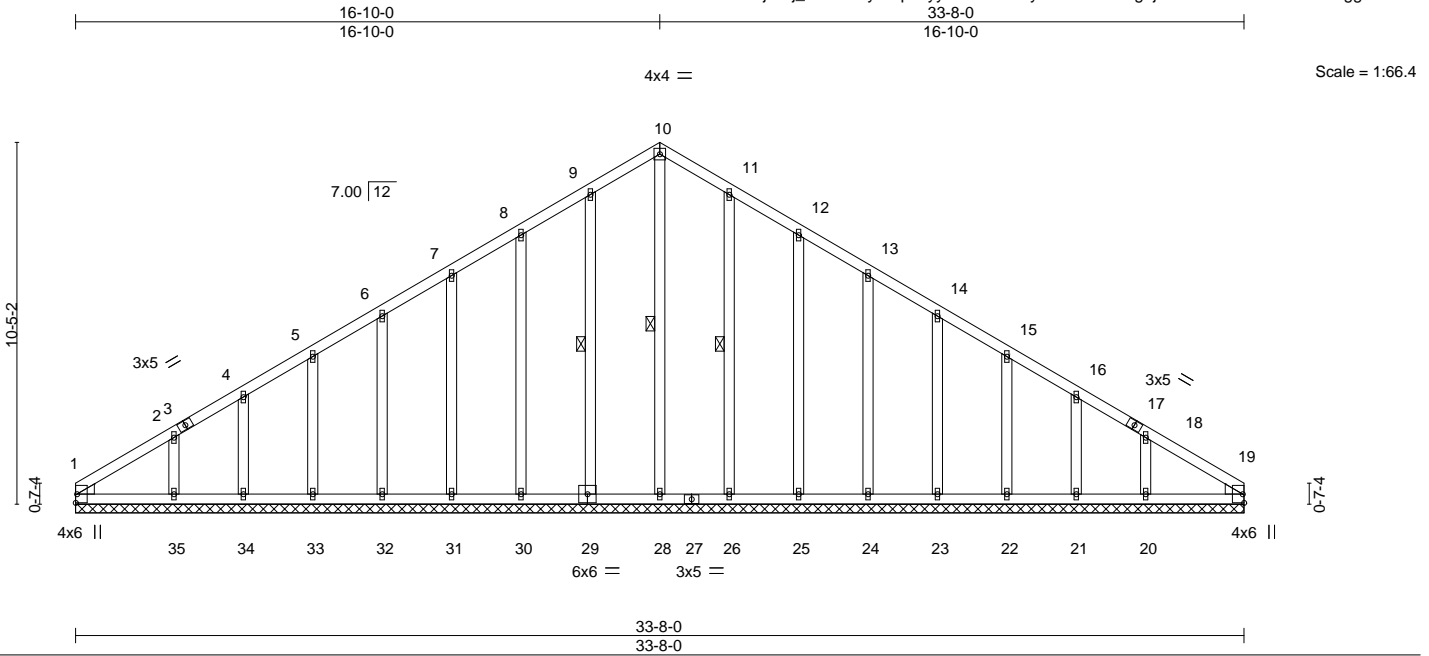


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471801
QUOTE_FILE	DGE	Common Supported Gable	1	1	Job Reference (optional)	

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

8,530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:03:59 2022 Page 1
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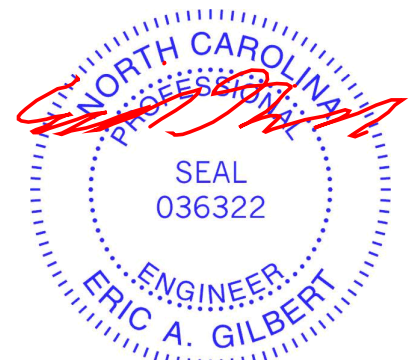
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	19	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 179 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF Stud	WEBS 1 Row at midpt 10-28, 9-29, 11-26
WEDGE	
Left: 2x4 SPF Stud, Right: 2x4 SPF Stud	

REACTIONS. All bearings 33-8-0.
 (lb) - Max Horz 1=250(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 19 except 35=118(LC 10), 20=112(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 28, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 19 except 35=259(LC 17), 20=253(LC 18)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 2-10-0, Exterior(2N) 2-10-0 to 13-10-0, Corner(3R) 13-10-0 to 19-10-0, Exterior(2N) 19-10-0 to 30-8-0, Corner(3E) 30-8-0 to 33-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 19 except (jt=lb) 35=118, 20=112.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 1, 2022

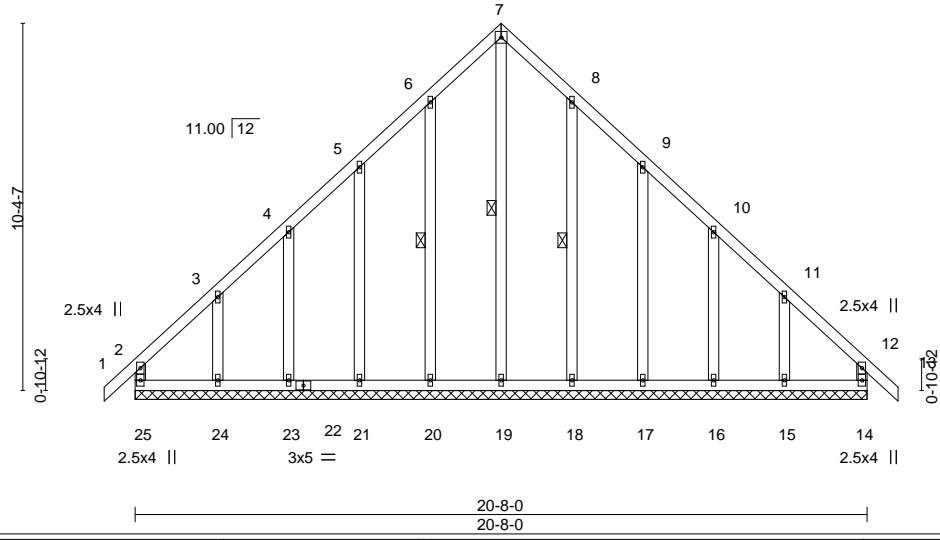
Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471803
QUOTE_FILE	EGE	Common Supported Gable	1	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:04:02 2022 Page 1
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4x4 =

Scale = 1:65.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	-0.00	13	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.01	14	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 119 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud	WEBS 1 Row at midpt 7-19, 6-20, 8-18
OTHERS 2x4 SPF Stud	

REACTIONS. All bearings 20-8-0.
 (lb) - Max Horz 25=279(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 20, 23, 18, 16 except 25=121(LC 6), 21=114(LC 10), 24=193(LC 10), 17=114(LC 11), 15=185(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 25, 14, 20, 21, 23, 24, 18, 17, 16, 15 except 19=323(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-6=-157/279, 6-7=-204/364, 7-8=-204/364, 8-9=-157/279
 WEBS 7-19=-408/171

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-4-0, Exterior(2N) 2-4-0 to 7-4-0, Corner(3R) 7-4-0 to 13-4-0, Exterior(2N) 13-4-0 to 18-4-0, Corner(3E) 18-4-0 to 21-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 20, 23, 18, 16 except (jt=lb) 25=121, 21=114, 24=193, 17=114, 15=185.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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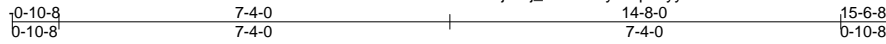
Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471804
QUOTE_FILE	FGE	Common Supported Gable	1	1	Job Reference (optional)	

84 Components (Dunn),

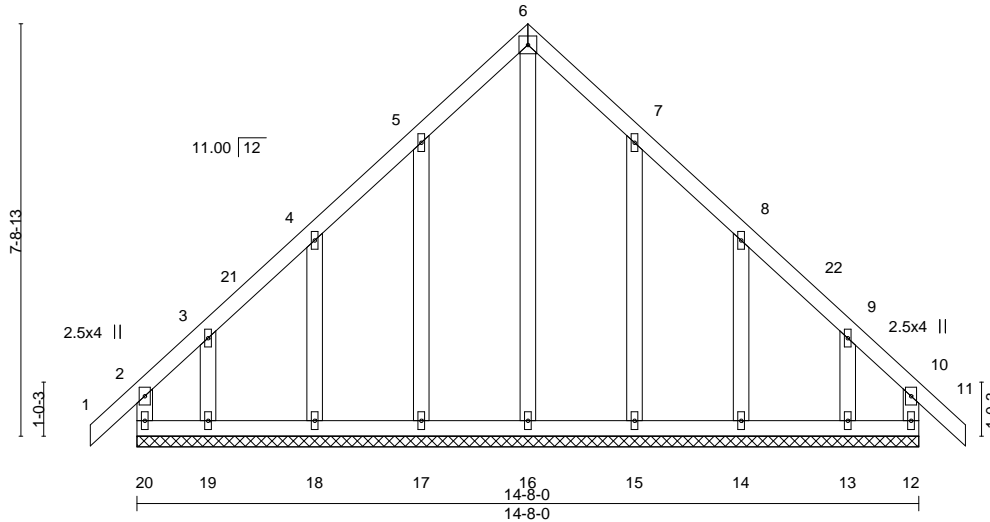
Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:04:03 2022 Page 1

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Scale = 1:43.2



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 0.17	Vert(LL)	-0.00	11	n/r	MT20	197/144
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 0.39	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 76 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF Stud
 OTHERS 2x4 SPF Stud

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 14-8-0.
 (lb) - Max Horz 20=215(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 15, 14 except 20=132(LC 6), 12=104(LC 7), 17=101(LC 10), 19=167(LC 10), 13=160(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-6=154/326, 6-7=154/326
 WEBS 6-16=349/104

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 4-4-0, Corner(3R) 4-4-0 to 10-4-0, Exterior(2N) 10-4-0 to 12-6-8, Corner(3E) 12-6-8 to 15-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord web bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 15, 14 except (jt=lb) 20=132, 12=104, 17=101, 19=167, 13=160.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 1, 2022

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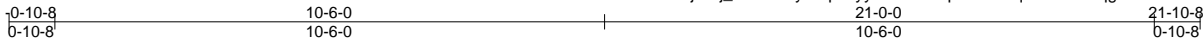
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471805
QUOTE_FILE	GGE	Common Supported Gable	1	1	Job Reference (optional)	

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

8,530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:04:04 2022 Page 1

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4x4 =

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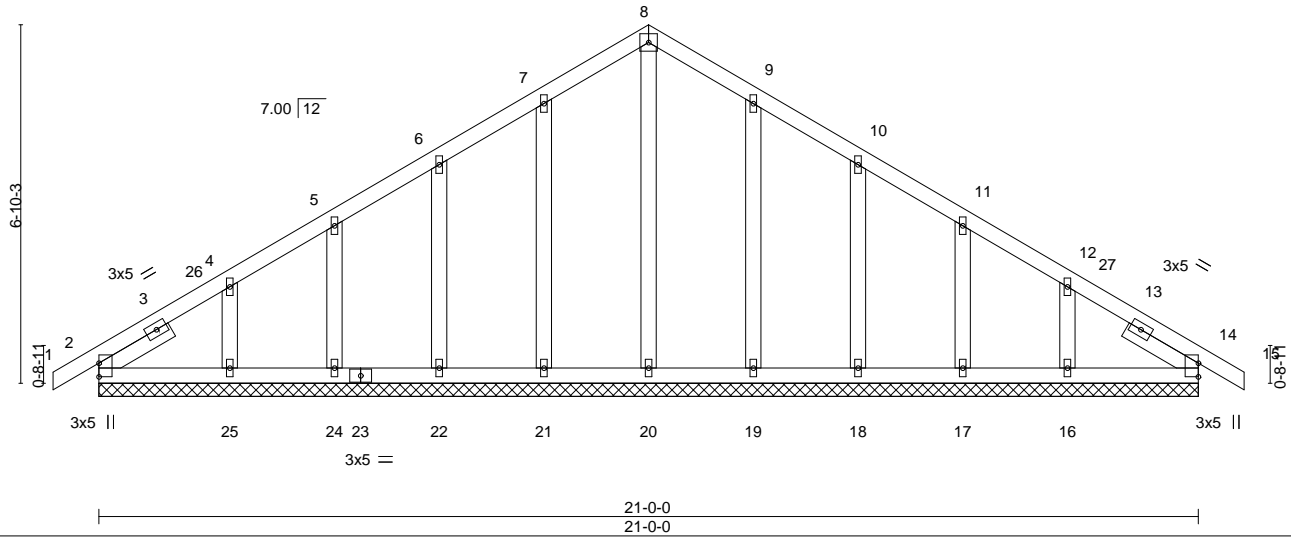


Plate Offsets (X, Y)--	[2:Edge,0-0-0], [14:Edge,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) 0.00 14 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00 14 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF Stud	
SLIDER Left 2x4 SPF Stud 1-6-14, Right 2x4 SPF Stud 1-6-14	

REACTIONS. All bearings 21-0-0.
 (lb) - Max Horz 2--164(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 21, 22, 24, 19, 18, 17, 16, 14 except 25--105(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 21, 22, 24, 25, 19, 18, 17, 16, 14

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 7-6-0, Corner(3R) 7-6-0 to 13-6-0, Exterior(2N) 13-6-0 to 18-10-8, Corner(3E) 18-10-8 to 21-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 21, 22, 24, 19, 18, 17, 16, 14 except (jt=lb) 25=105.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471806
QUOTE_FILE	HGE	Common Supported Gable	1	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:04:05 2022 Page 1

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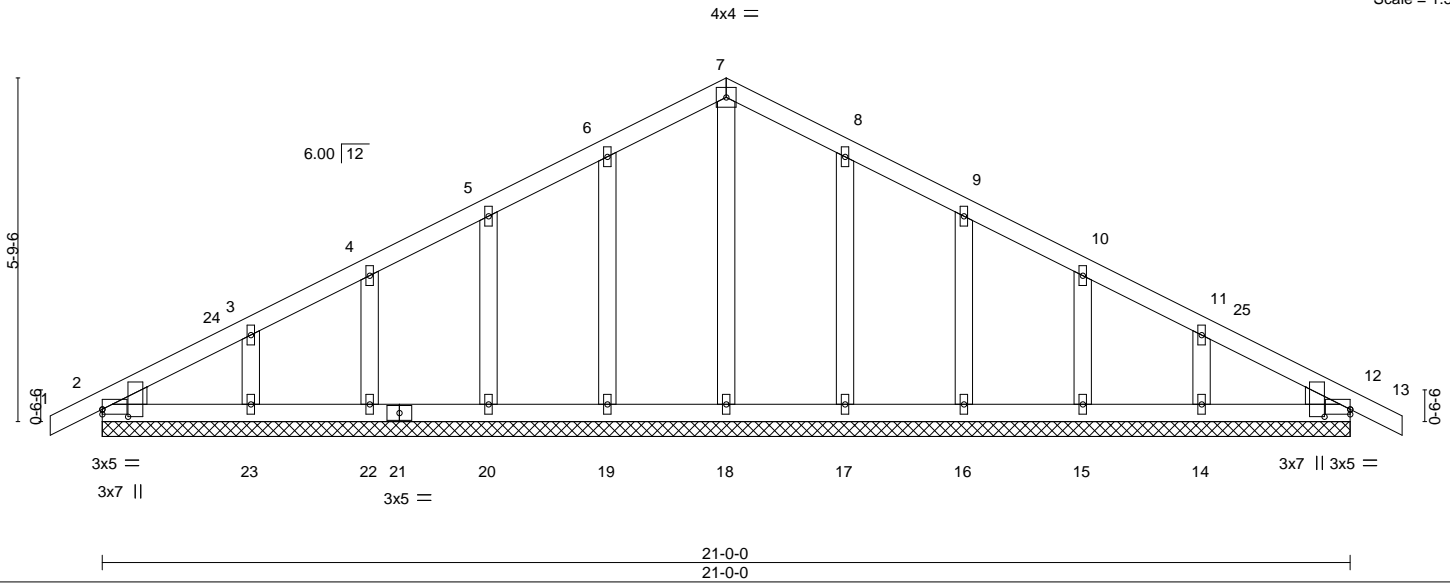


Plate Offsets (X, Y)-- [2:Edge,0-1-0], [2:0-1-8,0-5-3], [12:0-0-0,0-1-0], [12:0-1-8,0-5-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) 0.00 12 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) 0.00 12 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 12 n/a n/a		
	Code IRC2018/TPI2014			Weight: 85 lb	FT = 20%

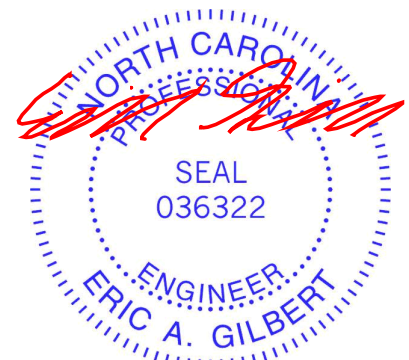
LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF Stud
WEDGE
Left: 2x4 SPF Stud , Right: 2x4 SPF Stud

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 21-0-0.
(lb) - Max Horz 2=95(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 22, 23, 17, 16, 15, 14, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 22, 23, 17, 16, 15, 14, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 7-6-0, Corner(3R) 7-6-0 to 13-6-0, Exterior(2N) 13-6-0 to 18-10-8, Corner(3E) 18-10-8 to 21-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 22, 23, 17, 16, 15, 14, 12.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 1, 2022

Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471807
QUOTE_FILE	I1	COMMON	2	1	Job Reference (optional)	

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

8,530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:04:06 2022 Page 1

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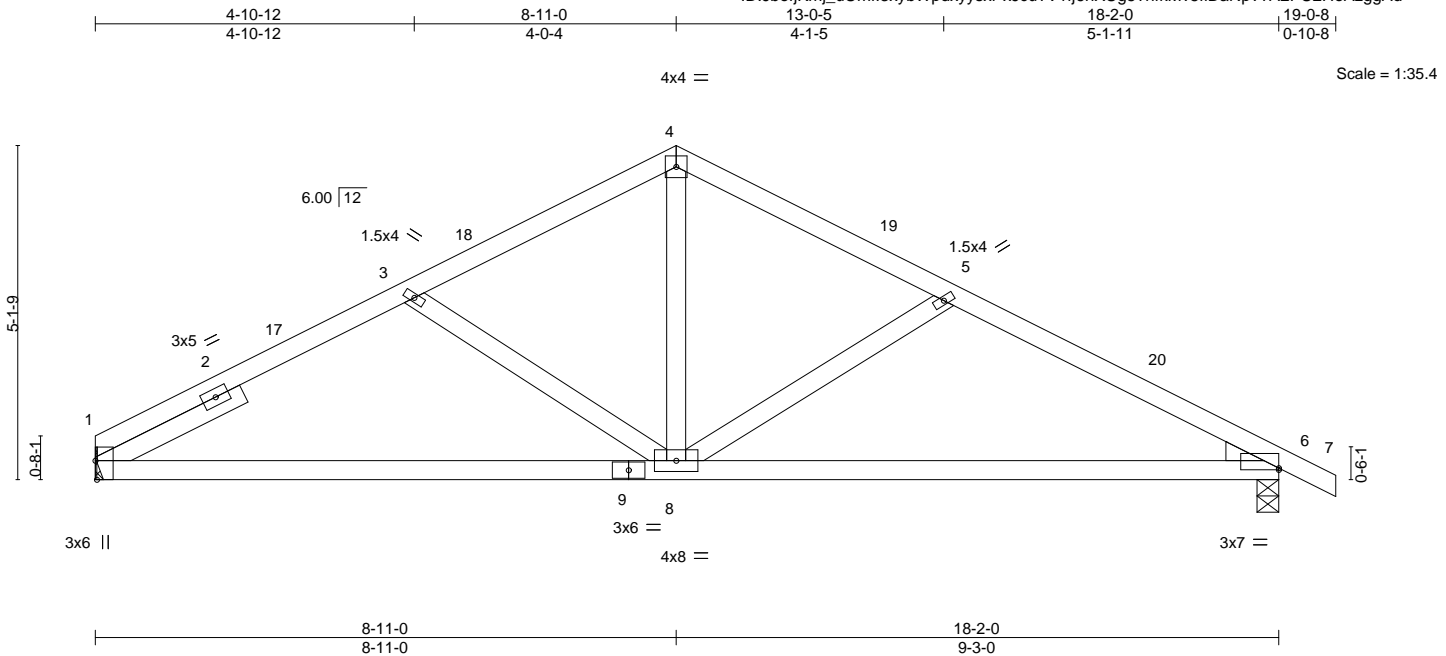


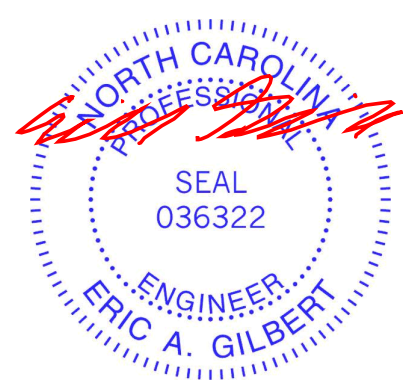
Plate Offsets (X, Y)--	[1:0-3-8,Edge], [6:0-0-0,0-0-5]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.12 8-16 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.26 8-16 >849 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.02 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 65 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-2 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud	
WEDGE	
Right: 2x4 SP No.3	
SLIDER Left 2x4 SPF Stud 2-6-0	

REACTIONS. (size) 1=Mechanical, 6=0-4-0
 Max Horz 1=-95(LC 11)
 Max Uplift 1=-116(LC 10), 6=-141(LC 11)
 Max Grav 1=725(LC 1), 6=780(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1046/355, 3-4=-865/281, 4-5=-869/281, 5-6=-1157/365
 BOT CHORD 1-8=-217/936, 6-8=-232/982
 WEBS 3-8=-280/178, 4-8=-90/513, 5-8=-325/194

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-11-0, Exterior(2R) 5-11-0 to 11-11-0, Interior(1) 11-11-0 to 16-0-8, Exterior(2E) 16-0-8 to 19-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=116, 6=141.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

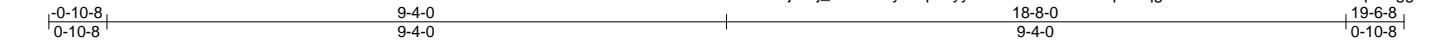


Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471808
QUOTE_FILE	IGE	GABLE	1	1	Job Reference (optional)	

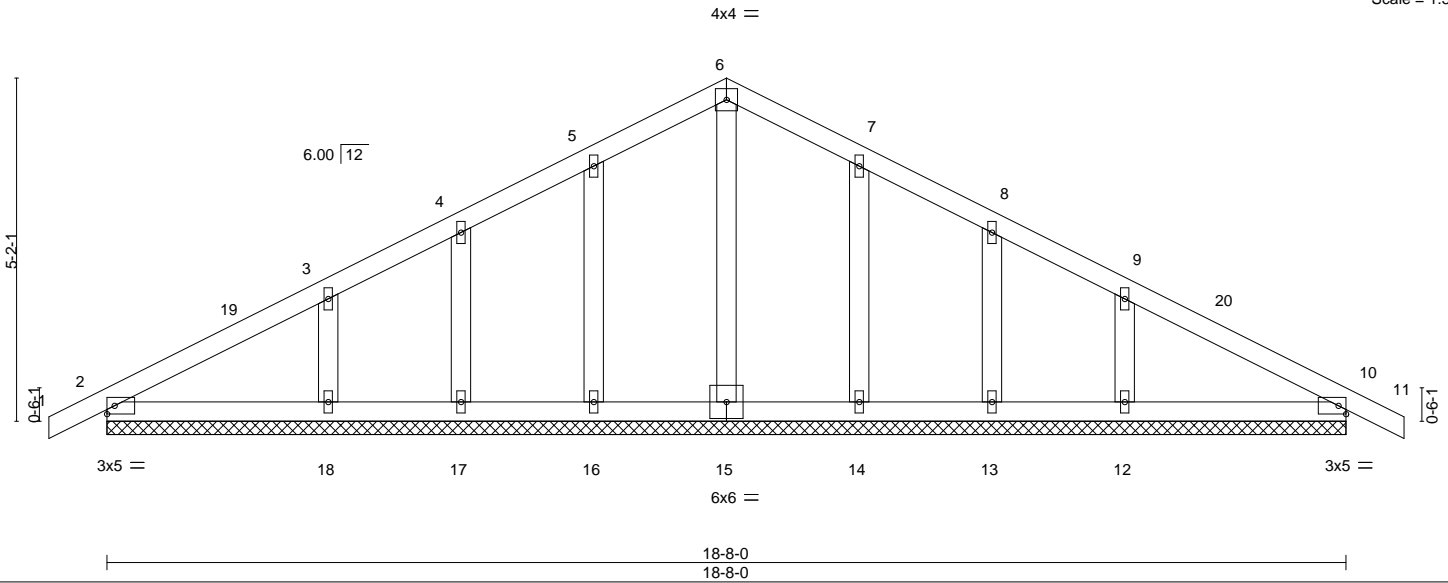
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:04:07 2022 Page 1

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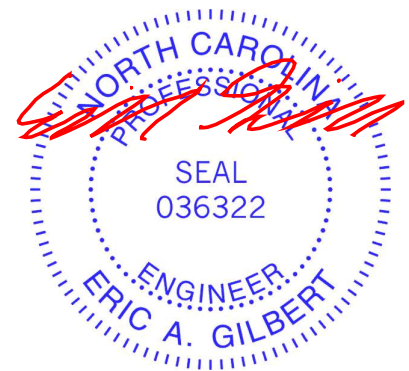
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	0.00	11	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	0.01	11	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 71 lb	FT = 20%

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

REACTIONS. All bearings 18-8-0.
 (lb) - Max Horz 2--85(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 17, 18, 14, 13, 10, 12
 Max Grav All reactions 250 lb or less at joint(s) 2, 15, 16, 17, 14, 13, 10 except 18=258(LC 23), 12=258(LC 24)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-4-0, Corner(3R) 6-4-0 to 12-4-0, Exterior(2N) 12-4-0 to 16-6-8, Corner(3E) 16-6-8 to 19-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 17, 18, 14, 13, 10, 12.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

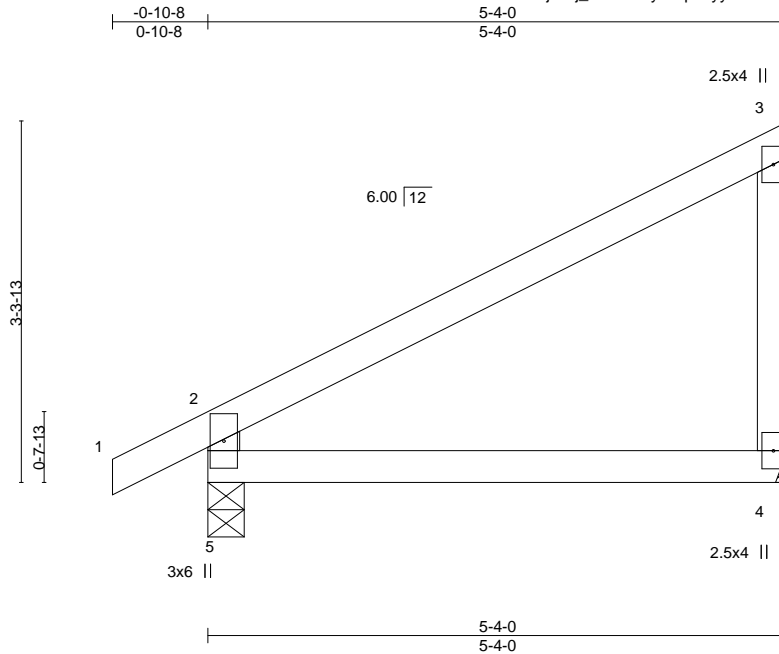


Job	Truss	Truss Type	Qty	Ply	Santoni - Fieldcrest F	150471809
QUOTE_FILE	MH	Monopitch	10	1	Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Feb 28 08:04:08 2022 Page 1

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Scale = 1:21.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.02	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.05	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR							
								Weight: 17 lb	FT = 20%	

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF Stud

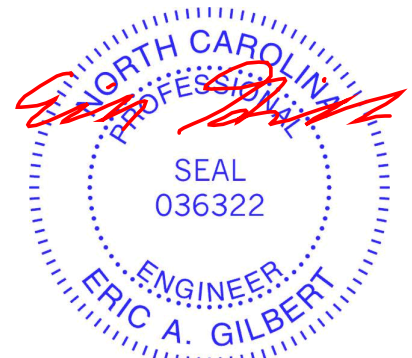
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 5=0-4-0
 Max Horz 5=124(LC 7)
 Max Uplift 4=-60(LC 10), 5=-57(LC 10)
 Max Grav 4=195(LC 1), 5=269(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

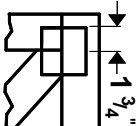
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



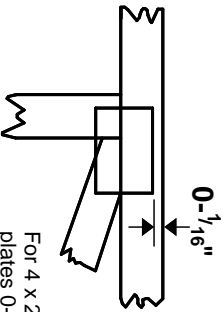
818 Soundside Road
 Edenton, NC 27932

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

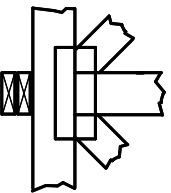
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



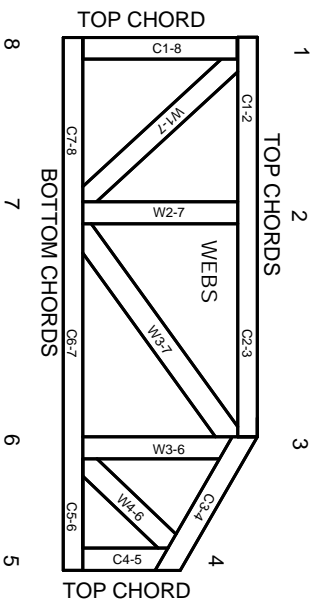
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: 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/TP1 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.