

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0221-0665 Lot 1 Cool Springs

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E15386592 thru E15386599

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

North Carolina COA: C-0844



February 5,2021

Strzyzewski, Marvin

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

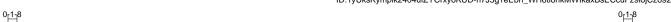
Job	Truss	Truss Type	Qty	Ply	Lot 1 Cool Springs
					E15386592
J0221-0665	ET1	Floor Supported Gable	1	1	
					.loh Reference (ontional)

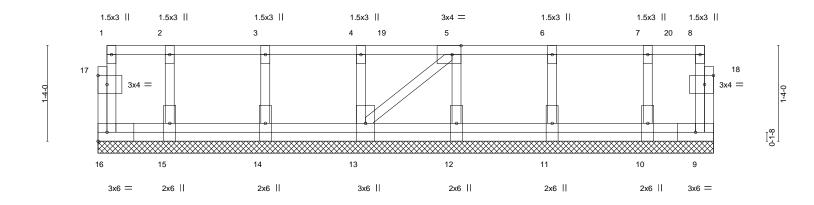
Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 5 15:13:26 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-n7J5g1eEbn_WH6tiohkMWlkaxBsECcuFz9iojCzo927

Scale: 3/4"=1





8-7-0 [5:0-1-8.Edge], [17:0-1-8.0-1-8], [18:0-1-8.0-1-8]

Flate Oil	Seis (A, I)	[5.0-1-6,Euge], [17.0-1-6,0-1	-0], [10.0-1	-0,0-1-0]								
LOADIN	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1	1.00	BC	0.00	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	/ES	WB	0.05	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI20	14	Matri	x-P						Weight: 54 lb	FT = 20%F, 11%E

BRACING-

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 1(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS

OTHERS 2x4 SP No.3(flat)

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-7-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 9-16=-10, 1-8=-100

Concentrated Loads (lb) Vert: 3=-71 6=-71 19=-71 20=-77



February 5,2021



Job	Truss	Truss Type	Qty	Ply	Lot 1 Cool Springs
					E15386593
J0221-0665	ET2	Floor Supported Gable	1	1	
					Joh Reference (ontional)

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 5 15:13:27 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-FKtTuNetM46NvGSuMOFb3WHlpbCMx3IOBpRLFfzo926

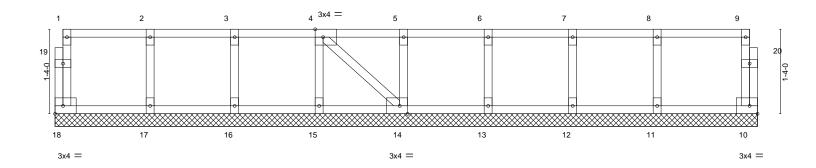
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0,1,8

0₁1₃8 Scale = 1:18.2





BRACING-

TOP CHORD

BOT CHORD

11-1-0

LUMBER-2x4 SP No.1(flat) TOP CHORD

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS **OTHERS**

2x4 SP No.3(flat) All bearings 11-1-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

NOTES-

REACTIONS.

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

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

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 1 Cool Springs E15386594 J0221-0665 ЕТ3 Floor Supported Gable Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 5 15:13:27 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-FKtTuNetM46NvGSuMOFb3WHmCbCPx3POBpRLFfzo926

Structural wood sheathing directly applied or 3-5-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8

1 3x4 II 2 1.5x3 II 3 4 1.5x3 ||

Scale = 1:9.4

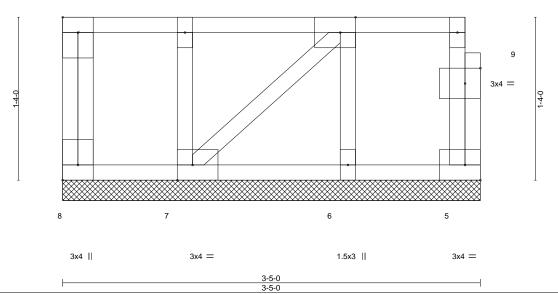


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [7:0-1-8,Edge], [8:Edge,0-1-8], [9:0-1-8,0-1-8]

LOADING	VI /	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix-P						Weight: 22 lb	FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 3-5-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 1 Cool Springs
					E15386595
J0221-0665	F1	Floor	4	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 5 15:13:28 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-jWRr5jfV7OEEWQ14w6nqbjqpB?PYgOIXQTBun5zo925

26-5-0

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

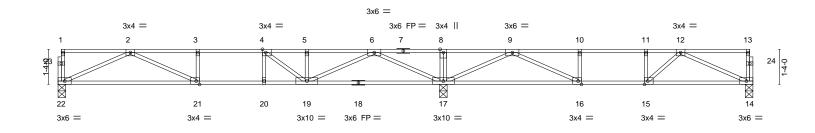
6-0-0 oc bracing: 17-19,16-17.

0-1-8



2-4-12 | 1-3-0

0-1-8 Scale = 1:43.8



	14-7-12		1		11-9	9-4	<u>'</u>
Plate Offsets (X,Y)	[4:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1	-8,Edge], [21:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.55 BC 0.59 WB 0.53	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/de -0.17 21-22 >99 -0.25 21-22 >69 0.03 14 n/	9 480 7 360	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 129 lb	FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No 1(flat)

14-7-12

BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

> (size) 22=0-3-8, 17=0-3-8, 14=0-3-8 Max Grav 22=728(LC 10), 17=1669(LC 1), 14=562(LC 7)

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

TOP CHORD 2-3=-1987/0, 3-4=-1987/0, 4-5=-1740/0, 5-6=-1740/0, 6-8=0/1282, 8-9=0/1282,

9-10=-1183/0, 10-11=-1183/0, 11-12=-1183/0

21-22=0/1314, 20-21=0/1987, 19-20=0/1987, 17-19=-191/818, 16-17=-366/574, BOT CHORD

15-16=0/1183, 14-15=0/954

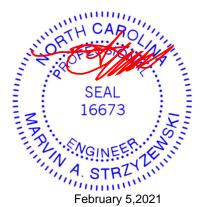
WFBS 8-17=-284/0, 2-22=-1440/0, 2-21=0/745, 3-21=-260/0, 6-17=-1781/0, 6-19=0/1122,

4-19=-646/0, 9-17=-1465/0, 9-16=0/917, 10-16=-329/0, 12-14=-1044/0, 12-15=-86/311

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 1 Cool Springs	
J0221-0665	E2	Floor	5	1		E15386596
30221-0003	12	1 1001	"	'	Job Reference (optional)	

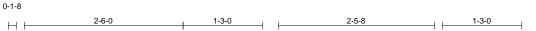
Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 5 15:13:29 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-Bi?DJ3g7uiM58ZcHTpl38xM0sPpUPvihf7wSJXzo924

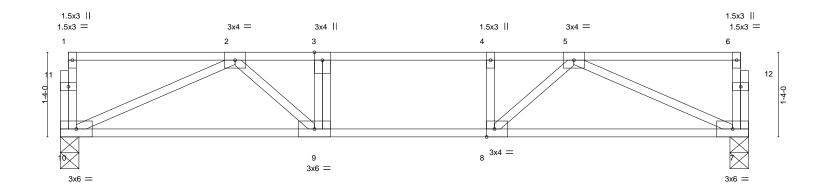
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



0₇1₇8 Scale = 1:18.1



		10-10-0	
		10-10-0	
Plate Offs	sets (X Y) [8:0-1-8 Edge]		

Flate Offsets (A,) [0.0-1-0,Euge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.42	Vert(LL) -0.08 9-10 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.35	Vert(CT) -0.11 9-10 >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.02 7 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 56 lb FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.3(flat) **WEBS**

REACTIONS. (size) 10=0-3-8, 7=0-3-8

Max Grav 10=576(LC 1), 7=576(LC 1)

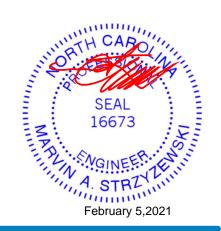
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1234/0, 3-4=-1234/0, 4-5=-1234/0 **BOT CHORD** 9-10=0/981, 8-9=0/1234, 7-8=0/982

WEBS 2-10=-1073/0, 5-7=-1075/0, 5-8=0/485, 2-9=0/478, 3-9=-255/0, 4-8=-266/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 1 Cool Springs E15386597 J0221-0665 F3 Floor 5 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 5 15:13:29 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-Bi?DJ3g7uiM58ZcHTpl38xMypPmFPu1hf7wSJXzo924

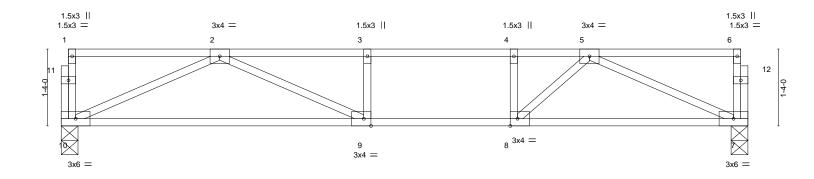
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8

2-6-0 2-5-0 1-3-0 0₁1₁8 Scale = 1:20.0 H +



11-11-0 [8:0-1-8.Edge], [9:0-1-8.Edge]

Plate Oil	SelS (A, I)	[6.0-1-6,Euge], [9.0-1-6,Euge]	6.0-1-6,Eugej, [9.0-1-6,Eugej							
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.68	Vert(LL)	-0.19	9-10	>740	480	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.56	Vert(CT	-0.29	9-10	>490	360		
BCLL	0.0	Rep Stress Incr YES	WB 0.34	Horz(CT	0.02	7	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S	,	,				Weight: 59 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 10=0-3-8, 7=0-3-8

Max Grav 10=635(LC 1), 7=635(LC 1)

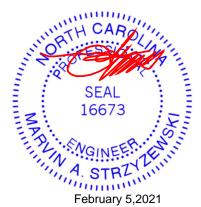
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1508/0, 3-4=-1508/0, 4-5=-1508/0 TOP CHORD

9-10=0/1112, 8-9=0/1508, 7-8=0/1121 **BOT CHORD**

WEBS 2-10=-1219/0, 2-9=0/558, 5-7=-1228/0, 5-8=0/655, 4-8=-353/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Job	Truss	Truss Type	Qty	Ply	Lot 1 Cool Springs
10224 0665	F4	Floor	7		E15386598
J0221-0665	F4	Floor	'	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 5 15:13:30 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-fvZbWOhlf?UymjBT1Xplg8v8fo148JTqung?szzo923

Structural wood sheathing directly applied or 6-0-0 oc purlins,

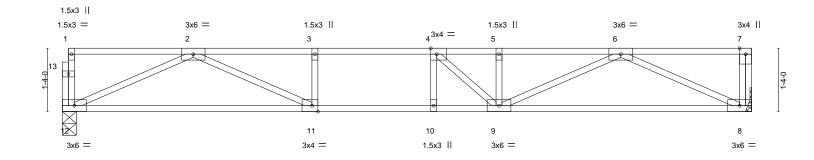
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8



Scale = 1:24.2



	14-6-0	I
	14-6-0	
Plate Offsets (X Y) [4:0-1-8 Edge] [11:0-1-8 Edge]		

1 late Offsets (x, r) [4.0-1-0, Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL 40.0	Plate Grip DOL 1.00	TC 0.61	Vert(LL) -0.20 9-10 >838 480	MT20 244/190			
TCDL 10.0	Lumber DOL 1.00	BC 0.84	Vert(CT) -0.25 9-10 >684 360				
BCLL 0.0	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.03 8 n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 73 lb FT = 20%F, 11%E			

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 12=0-3-8, 8=Mechanical

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

TOP CHORD 2-3=-2243/0, 3-4=-2243/0, 4-5=-2186/0, 5-6=-2186/0 **BOT CHORD** 11-12=0/1424, 10-11=0/2243, 9-10=0/2243, 8-9=0/1429

Max Grav 12=778(LC 1), 8=784(LC 1)

WEBS 2-12=-1561/0, 2-11=0/958, 3-11=-303/0, 6-8=-1573/0, 6-9=0/836, 5-9=-271/41,

4-9=-428/186

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.





818 Soundside Road Edenton, NC 27932

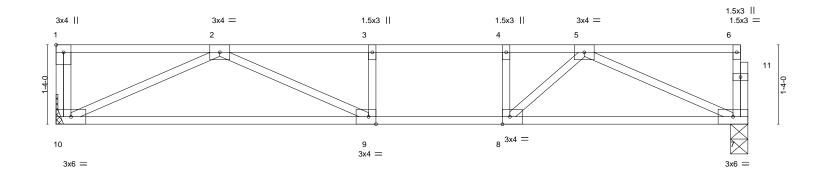
Job Truss Truss Type Qty Ply Lot 1 Cool Springs E15386599 J0221-0665 F5 Floor Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 5 15:13:30 2021 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

2-6-0

ID:1yUksKymplk2404ufZYCrxyoKUD-fvZbWOhlf?UymjBT1XpIg8v8so7E8LSqung?szzo923 1-3-0 0₁1₁8

Scale = 1:19.4



11-7-8 Plate Offsets (X,Y)-- [1:Edge.0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge]

(-)							
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP		
TCLL	40.0	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.16 9-10 >846 480	MT20 244/190		
TCDL	10.0	Lumber DOL 1.00	BC 0.51	Vert(CT) -0.25 9-10 >540 360			
BCLL	0.0	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.02 7 n/a n/a			
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 58 lb FT = 20%F, 11%E		

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 10=Mechanical, 7=0-3-8

Max Grav 10=626(LC 1), 7=619(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1441/0, 3-4=-1441/0, 4-5=-1441/0

9-10=0/1081, 8-9=0/1441, 7-8=0/1087 **BOT CHORD**

WEBS 2-10=-1190/0, 2-9=0/515, 5-7=-1190/0, 5-8=0/606, 4-8=-323/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



Symbols

PLATE LOCATION AND ORIENTATION



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



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

connector plates. required direction of slots in This symbol indicates the

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

PLATE SIZE



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

LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. ndicated by symbol shown and/or

BEARING



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

Industry Standards:

National Design Specification for Metal Building Component Safety Information. Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-89: ANSI/TPI1:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

ტ. Ö

- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

œ

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- 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 project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.