

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J1220-5661
Precision/Lot 35 Summerlin/Harnett

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: E15334465 thru E15334495

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



January 21, 2021

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	Precision/Lot 35 Summerlin/Harnett	E15334465
J1220-5661	A01-GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:21 2021 Page 2
ID:52SygMJAaHxrwTExlrbuZyFiSD-5usx2w_hf5pHxI5qkTv1PnHz?MMs4Zodi3RxWvzt6aO

NOTES-

- 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 30.0psf on the bottom chord in 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 39, 40, 42, 43, 36, 30 except (jt=lb) 1=151, 27=140, 45=153, 44=712, 34=123, 33=111, 32=107, 31=142, 29=125.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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	Precision/Lot 35 Summerlin/Harnett	E15334466
J1220-5661	A02	PIGGYBACK BASE	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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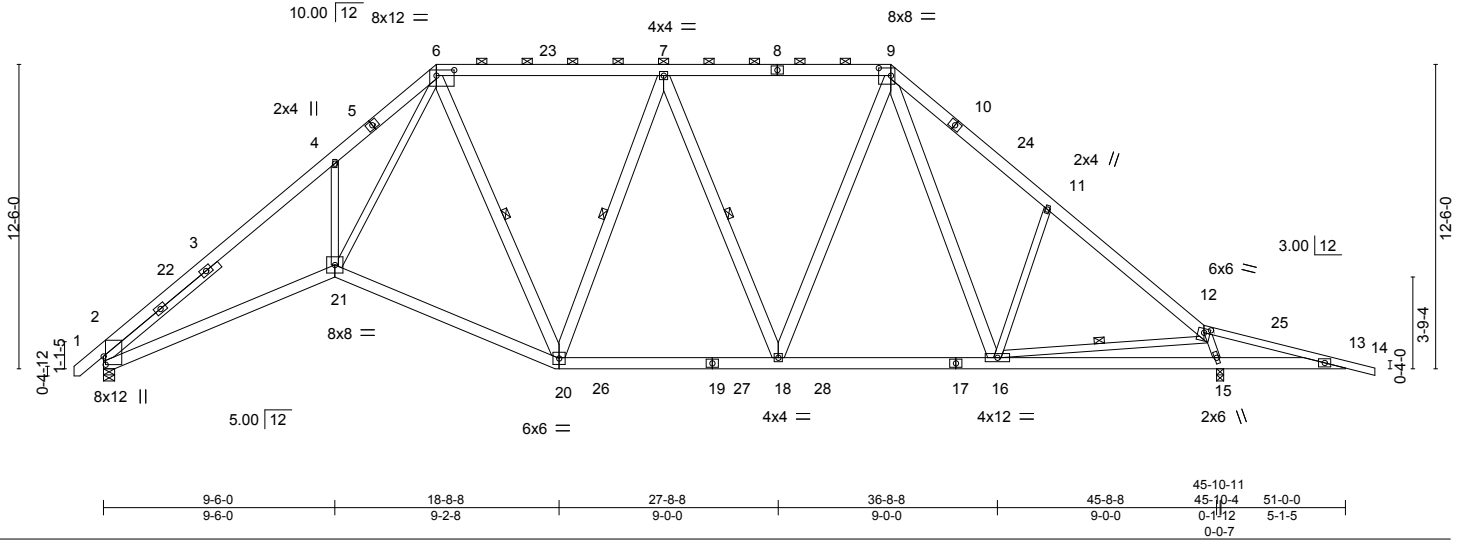


Plate Offsets (X,Y)-- [2:0-4-2,0-1-0], [6:0-8-12,0-2-12], [9:0-6-0,0-3-12], [12:0-3-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL) -0.19	18-20	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.34	20-21	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.22	15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	21	>999	240		
							Weight: 462 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
12-14: 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
4-21,6-21,11-16,12-16,12-15: 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -x 6-2-10

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-3 oc purlins, except 2-0-0 oc purlins (5-7-2 max.); 6-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-20, 7-20, 7-18, 12-16

REACTIONS.

(size) 2=0-5-8, 15=0-3-8
Max Horz 2=-297(LC 10)
Max Uplift 2=-60(LC 12), 15=-107(LC 13)
Max Grav 2=1868(LC 1), 15=2359(LC 2)

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

TOP CHORD 2-4=-3975/649, 4-6=-3719/921, 6-7=-1724/538, 7-9=-1774/525, 9-11=-2221/573,
11-12=-2317/408, 12-13=-1129/1108
BOT CHORD 2-21=-307/3220, 20-21=-115/1965, 18-20=-109/1841, 16-18=-21/1509, 15-16=-84/809,
13-15=-1048/1156
WEBS 4-21=-396/402, 6-21=-479/2565, 6-20=-304/140, 7-20=-419/210, 7-18=-438/232,
9-18=-116/785, 9-16=-137/529, 11-16=-498/319, 12-16=-890/1613, 12-15=-2377/805

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 13-8-0, Exterior(2) 13-8-0 to 18-0-13, Interior(1) 18-0-13 to 32-4-0, Exterior(2) 32-4-0 to 36-8-12, Interior(1) 36-8-12 to 52-2-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (it=lb) 15=107.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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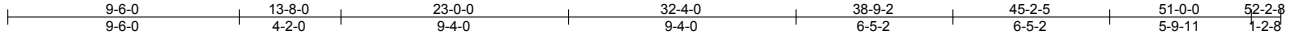


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334467
J1220-5661	A02-A	PIGGYBACK BASE	3	1		

Comtech, Inc., Fayetteville, NC - 28314,

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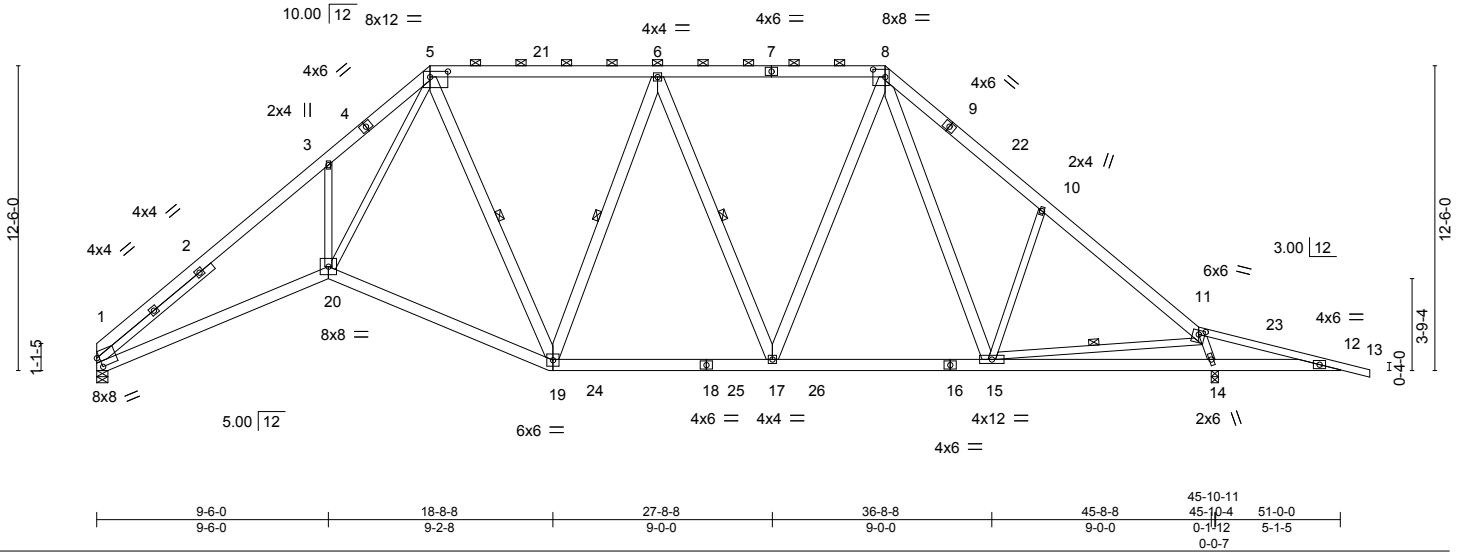


Plate Offsets (X,Y)-- [1:0-1-4,0-5-2], [5:0-8-12,0-2-12], [8:0-6-0,0-3-12], [11:0-3-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.18 17-19 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.69	Vert(CT) -0.32 19-20 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.21 14 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.09 20 >999 240	Weight: 458 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
 11-13: 2x4 SP No.1, 1-4: 2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 3-20,5-20,10-15,11-15,11-14: 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 -x 6-2-10

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins, except
 2-0-0 oc purlins (5-7-1 max.): 5-8.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-19, 6-19, 6-17, 11-15

REACTIONS.

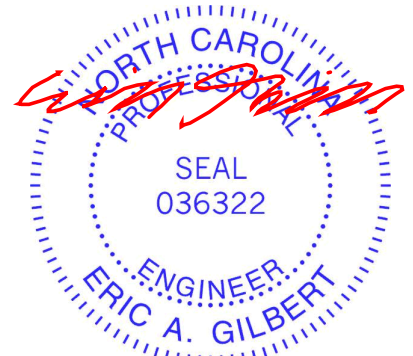
(size) 1=0-5-8, 14=0-3-8
 Max Horz 1=-295(LC 10)
 Max Uplift 1=-42(LC 12), 14=-107(LC 13)
 Max Grav 1=1791(LC 1), 14=2360(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-3984/672, 3-5=-3724/957, 5-6=-1725/544, 6-8=-1775/529, 8-10=-2222/577,
 10-11=-2318/412, 11-12=-1129/1108
 BOT CHORD 1-20=-330/3228, 19-20=-115/1968, 17-19=-114/1843, 15-17=-24/1510, 14-15=-83/809,
 12-14=-1048/1156
 WEBS 3-20=-390/409, 5-20=-489/2570, 5-19=-306/140, 6-19=-419/210, 6-17=-439/232,
 8-17=-116/786, 8-15=-137/529, 10-15=-498/319, 11-15=-890/1613, 11-14=-2378/805

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-2 to 4-6-15, Interior(1) 4-6-15 to 13-8-0, Exterior(2) 13-8-0 to 18-0-13, Interior(1) 18-0-13 to 32-4-0, Exterior(2) 32-4-0 to 36-8-12, Interior(1) 36-8-12 to 52-2-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 14=107.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2021

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334469
J1220-5661	A04	PIGGYBACK BASE	1	2	Job Reference (optional)	

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ID:52SgMJAAhxrWTaExlrbuZyFiSD-w1DCJz3REXZQfgYzj?Re2X?8mFwUGmV4?uFKZzt6al

1-2-8	6-11-12	13-8-0	23-0-0	32-4-0	38-9-2	45-2-5	51-0-0	52-2-8
1-2-8	6-11-12	6-8-4	9-4-0	9-4-0	6-5-2	6-5-2	5-9-11	1-2-8

Scale: 1/8"=1'

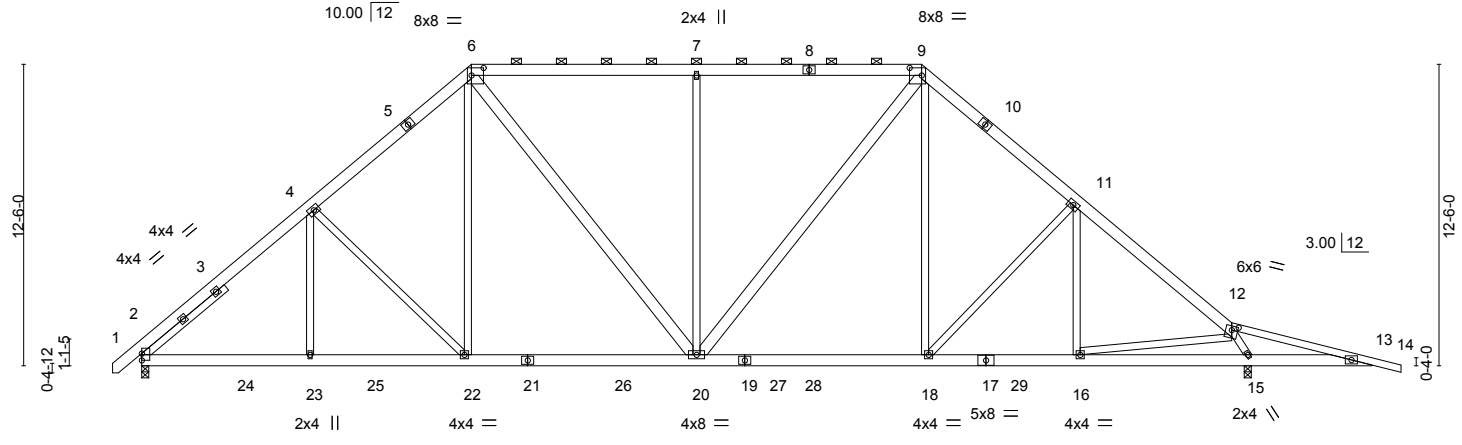


Plate Offsets (X,Y)--	[6:0-6-0,0-3-12], [9:0-6-0,0-3-12], [12:0-3-0,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.26 18-20 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.45 18-20 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.33	Horz(CT) 0.05 15 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15 18-20 >999 240	Weight: 883 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 12-14: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 6-9.
BOT CHORD 2x6 SP No.1 *Except* 17-19: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-15.
WEBS 2x4 SP No.2 *Except* 6-20,9-20: 2x6 SP No.1	
SLIDER Left 2x4 SP No.2 -x 4-5-13	

REACTIONS. (size) 2=0-3-8, 15=0-3-8
 Max Horz 2=-296(LC 25)
 Max Uplift 2=-133(LC 8), 15=-219(LC 9)
 Max Grav 2=2797(LC 2), 15=3436(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-3774/189, 4-6=-3267/259, 6-7=-3377/282, 7-9=-3377/282, 9-11=-3905/325,
 11-12=-3724/201, 12-13=-557/948
 BOT CHORD 2-23=-213/2703, 22-23=-213/2703, 20-22=-139/2451, 18-20=-41/2895, 16-18=-32/2824,
 15-16=-54/1158, 13-15=-884/574
 WEBS 4-23=0/386, 4-22=-491/217, 6-22=-137/741, 6-20=-290/1590, 7-20=-611/232,
 9-20=-210/850, 9-18=-143/1448, 11-18=-380/319, 11-16=-598/201, 12-16=-314/1851,
 12-15=-3585/314

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 4x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in 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=133, 15=219.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334469
J1220-5661	A04	PIGGYBACK BASE	1	2	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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 ID:52SygMJAaHxrWTaExlrbuZyFiSD-w1DCJz3REXZQfgYzgj?Re2X?8mFwUGmV4?uFKZzt6al

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1627 lb down and 195 lb up at 27'-8"-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-6=-60, 6-9=-60, 9-12=-60, 12-14=-60, 2-13=-20
- Concentrated Loads (lb)
 - Vert: 28=-1449(B)

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Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334470
J1220-5661	A05	PIGGYBACK BASE	3	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:28 2021 Page 1

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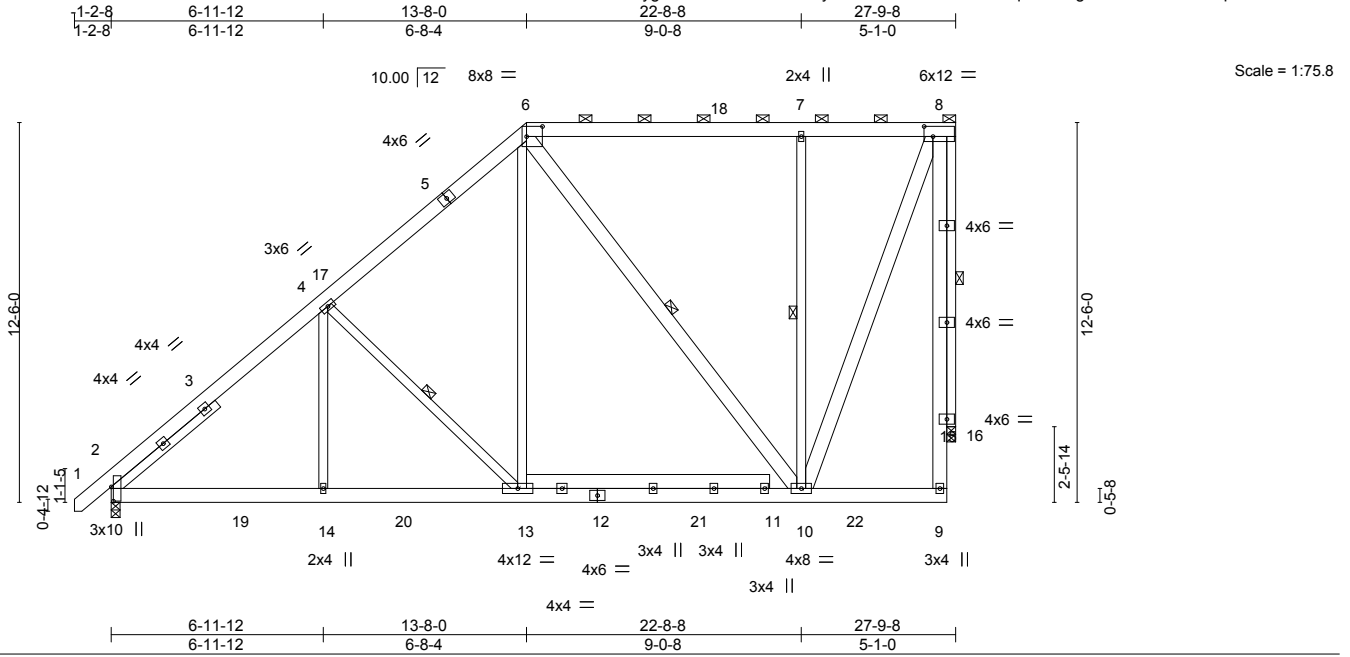


Plate Offsets (X,Y)-- [2:0-5-11,0-0-13], [6:0-6-4,0-4-0], [8:0-3-8,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.05	10-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.09	10-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.86	Horz(CT) 0.03	16	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	10-13	>999	240		
							Weight: 329 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 8-9,6-10,8-10: 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 -x 4-5-13

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-13, 6-10, 7-10, 8-16

REACTIONS.

(size) 2=0-3-8, 16=0-3-8
 Max Horz 2=400(LC 12)
 Max Uplift 2=-7(LC 12), 16=-143(LC 9)
 Max Grav 2=1359(LC 19), 16=1275(LC 2)

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

TOP CHORD 2-4=-1606/165, 4-6=-1133/237, 6-7=-469/136, 7-8=-468/136
 BOT CHORD 2-14=-466/1223, 13-14=-466/1223, 10-13=-275/800
 WEBS 4-14=0/388, 4-13=-580/272, 6-13=-94/776, 6-10=-597/228, 7-10=-507/264,
 8-10=-354/1194, 8-16=-1276/336

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 13-8-0, Exterior(2) 13-8-0 to 19-10-11, Interior(1) 19-10-11 to 27-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in 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) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 16=143.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2021

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	Precision/Lot 35 Summerlin/Harnett	E15334471
J1220-5661	A06	PIGGYBACK BASE	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:30 2021 Page 1

ID:52SygMJAaHxrwTtaExlrbuZyFiSD-KcvKx?5KXsx?W8HYLsZ8Gh9X7_TrhZrynz7wLuzt6aF

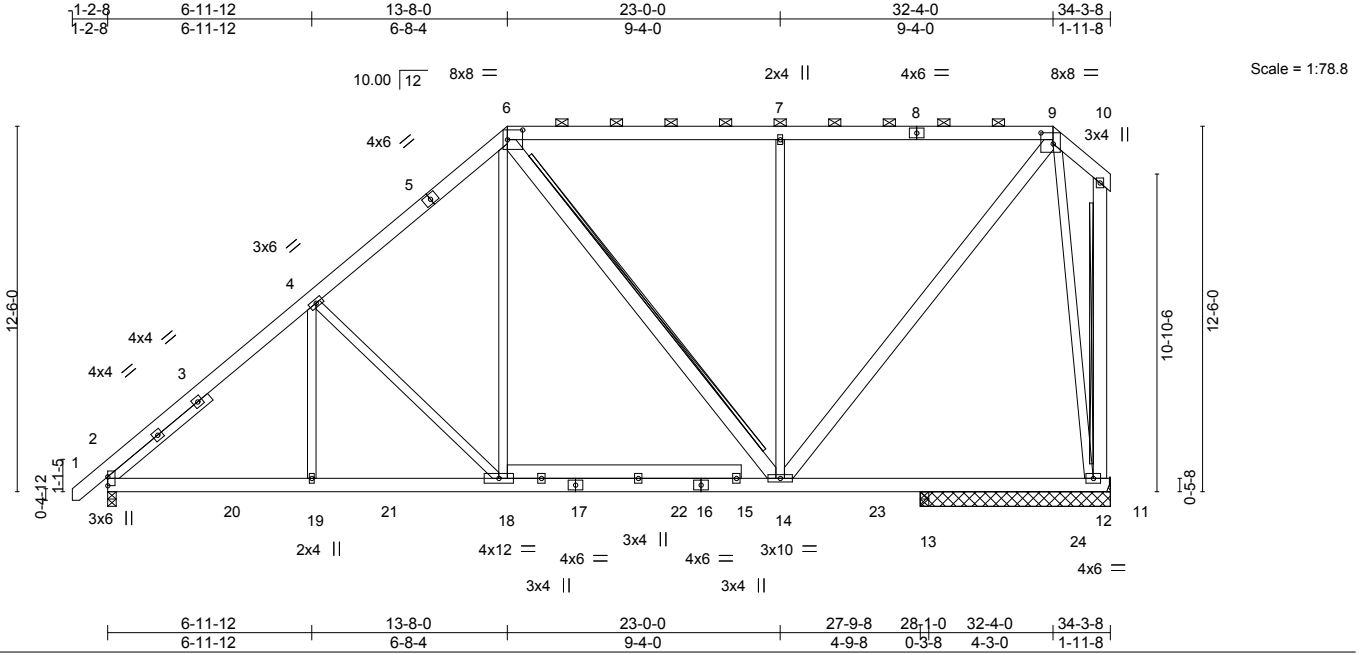


Plate Offsets (X,Y)-- [6:0-6-4,0-4-0], [9:0-5-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.04	14-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.07	14-18	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.62	Horz(CT) 0.02	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	14-18	>999	240		
							Weight: 736 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 6-14,9-14,10-12: 2x6 SP No.1
 SLIDER Left 2x4 SP No.2 -x 4-5-13

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9. Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD T-Brace: 2x4 SPF No.2 - 10-12
 WEBS 2x6 SPF No.2 - 6-14
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS.

All bearings 6-6-0 except (jt=length) 2=0-3-8, 13=0-3-8.
 (lb) - Max Horz 2=371(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 12 except 11=607(LC 14), 13=230(LC 5)
 Max Grav All reactions 250 lb or less at joint(s) except 2=1563(LC 15), 12=1796(LC 2), 12=1277(LC 1), 13=2707(LC 2)

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

TOP CHORD 2-4=-1934/51, 4-6=-1479/140, 6-7=-891/139, 7-9=-892/139
 BOT CHORD 2-19=-280/1450, 18-19=-280/1450, 14-18=-154/1048
 WEBS 4-19=0/373, 4-18=-552/210, 6-18=-47/790, 6-14=-366/94, 7-14=-644/226, 9-14=-175/1181, 9-12=-1215/239

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12 except (jt=lb) 11=607, 13=230.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2373 lb down and 291 lb up at 27-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



January 21, 2021

Continued on page 2

WARNING: Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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	Precision/Lot 35 Summerlin/Harnett	E15334471
J1220-5661	A06	PIGGYBACK BASE	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:30 2021 Page 2
 ID:52SygMJAaHxrWTaExlrbuZyFiSD-KcvKx?5KXsx?W8HYLsZ8Gh9X7_TrhZrynz7wLuzt6aF

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-6=-60, 6-9=-60, 9-10=-60, 2-11=-20
- Concentrated Loads (lb)
 - Vert: 13=-2081(F)

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334472
J1220-5661	A07	PIGGYBACK BASE	2	1		

Comtech, Inc. Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:31 2021 Page 1
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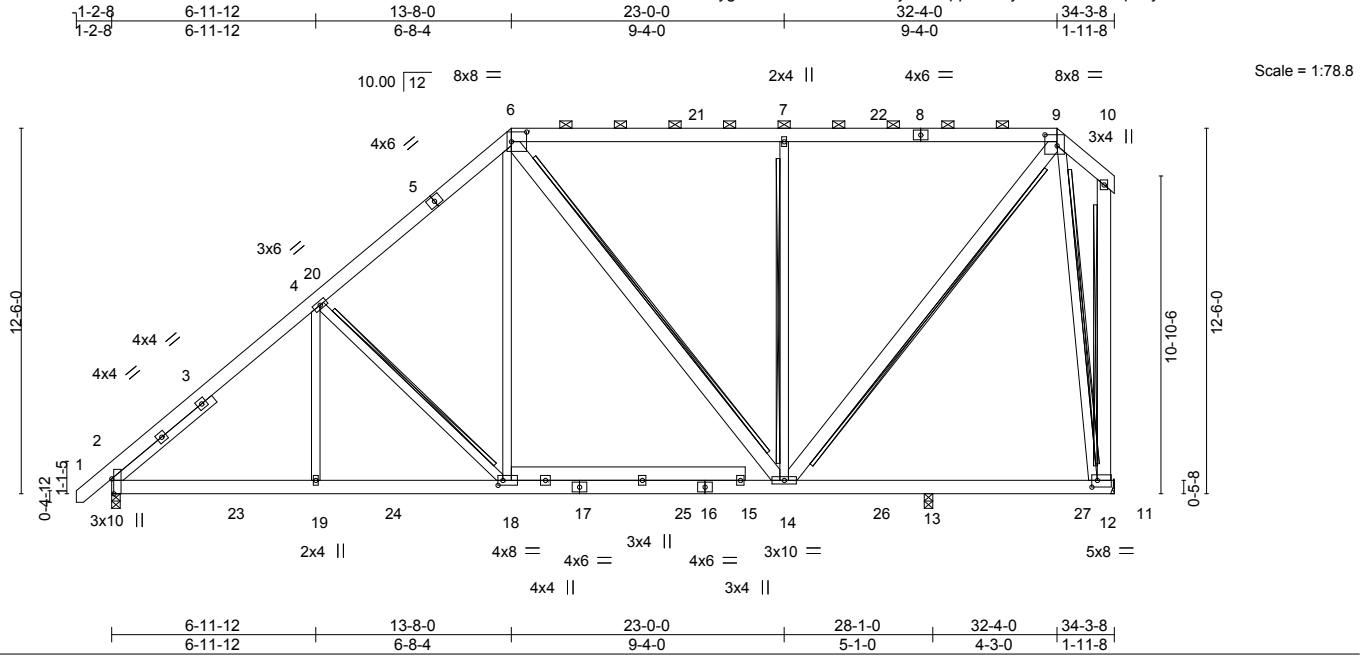


Plate Offsets (X,Y)-- [2:0-6-3,Edge], [6:0-6-4,0-4-0], [9:0-5-0,0-4-8], [12:0-2-4,0-2-12], [18:0-2-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.08	14-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(CT) -0.13	14-18	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.93	Horz(CT) 0.03	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	14-18	>999	240		
							Weight: 368 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 6-14,9-14,10-12: 2x6 SP No.1
 SLIDER Left 2x4 SP No.2 -x 4-5-13

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD
 WEBS T-Brace: 2x4 SPF No.2 - 4-18, 7-14, 9-14, 10-12, 9-12
 2x6 SPF No.2 - 6-14
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS.

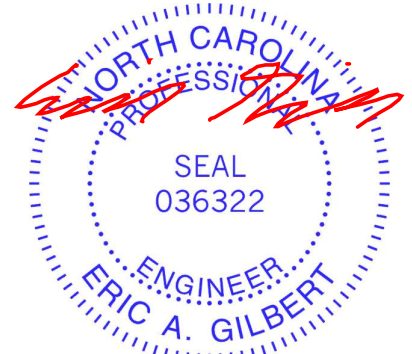
(size) 2=0-3-8, 12=Mechanical, 13=0-3-8
 Max Horz 2=371(LC 12)
 Max Uplift 2=41(LC 12), 12=163(LC 9)
 Max Grav 2=1561(LC 19), 12=1340(LC 2), 13=428(LC 18)

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

TOP CHORD 2-4=-1932/318, 4-6=-1477/394, 6-7=-888/346, 7-9=-888/347
 BOT CHORD 2-19=-522/1448, 18-19=-522/1448, 14-18=-338/1046
 WEBS 4-19=0/373, 4-18=-552/261, 6-18=-90/791, 6-14=-370/93, 7-14=-644/319,
 9-14=-358/1172, 9-12=-1208/484

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 13-8-0, Exterior(2) 13-8-0 to 19-10-11, Interior(1) 19-10-11 to 32-4-0, Exterior(2) 32-4-0 to 33-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=163.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



January 21, 2021

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334473
J1220-5661	A08	ATTIC	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:33 2021 Page 1

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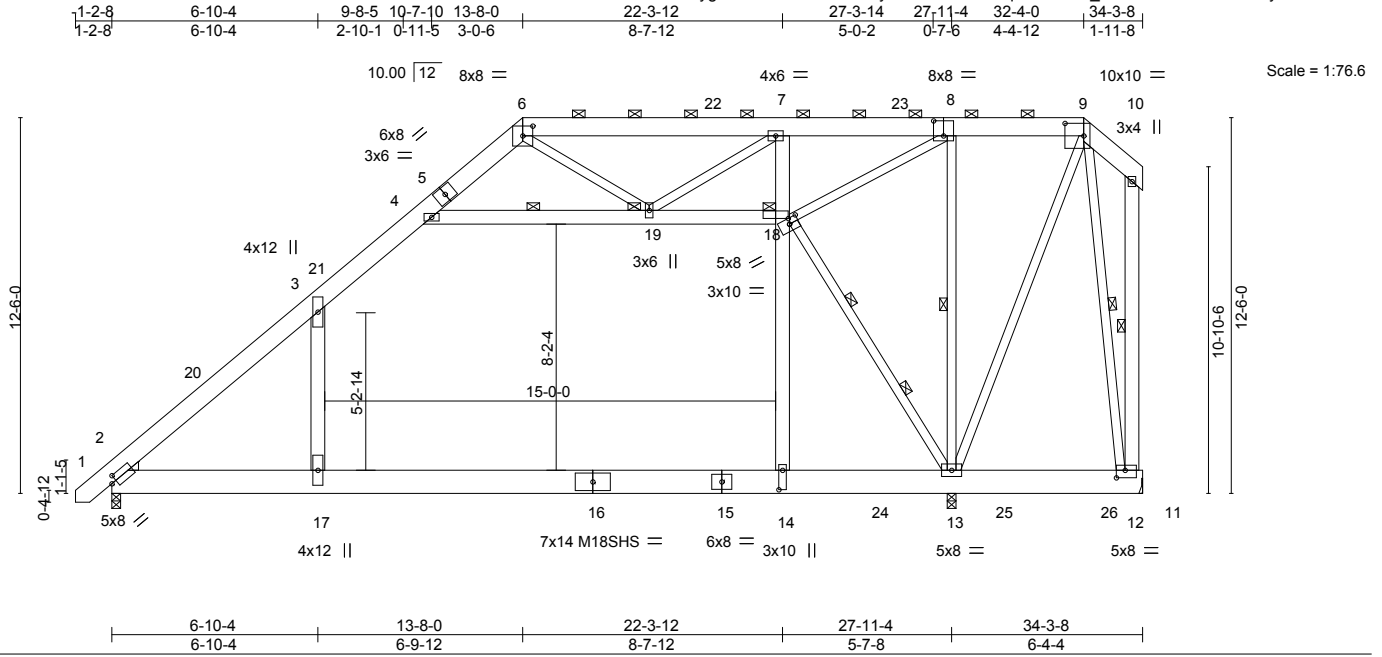


Plate Offsets (X,Y)--	[2:0-2-1,0-2-8], [6:0-4-0,0-3-15], [8:0-4-0,0-6-0], [9:0-7-8,0-5-0], [12:0-3-8,0-3-0], [14:0-7-12,0-1-8], [18:0-3-12,0-2-4], [18:0-0-8,0-2-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.88	Vert(LL) -0.33 14-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.55 14-17 >601 240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.02 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10 14-17 >999 240		
				Weight: 440 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x10 SP 2400F 2.0E
 WEBS 2x4 SP No.2 *Except*
 3-17,4-18,7-14,10-12: 2x6 SP No.1
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD
 WEBS 1 Row at midpt 4-19, 8-13, 10-12, 9-12
 2 Rows at 1/3 pts 13-18
 JOINTS 1 Brace at Jt(s): 18, 19

REACTIONS.

(size) 2=0-3-8, 13=0-3-8, 12=Mechanical
 Max Horz 2=367(LC 12)
 Max Uplift 13=-1(LC 8), 12=-80(LC 12)
 Max Grav 2=2017(LC 20), 13=1769(LC 27), 12=851(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2559/0, 3-4=-1766/63, 4-6=-373/154, 6-7=-253/101, 7-8=-193/304, 8-9=-312/126
 BOT CHORD 2-17=-127/1763, 14-17=-127/1763, 13-14=-130/1733
 WEBS 3-17=0/1039, 4-19=-1852/72, 18-19=-1899/374, 14-18=0/1861, 7-18=-700/316,
 8-18=-703/364, 9-13=-110/564, 9-12=-570/176, 6-19=-32/307, 7-19=-101/321,
 13-18=-2741/127

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-11-11 to 3-5-2, Interior(1) 3-5-2 to 13-8-0, Exterior(2) 13-8-0 to 19-10-11, Interior(1) 19-10-11 to 32-4-0, Exterior(2) 32-4-0 to 33-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 4-19, 18-19; Wall dead load (5.0psf) on member(s). 3-17, 14-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-17
- 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) 13, 12.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



January 21, 2021

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334474
J1220-5661	A09	ATTIC	3	2	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:35 2021 Page 1

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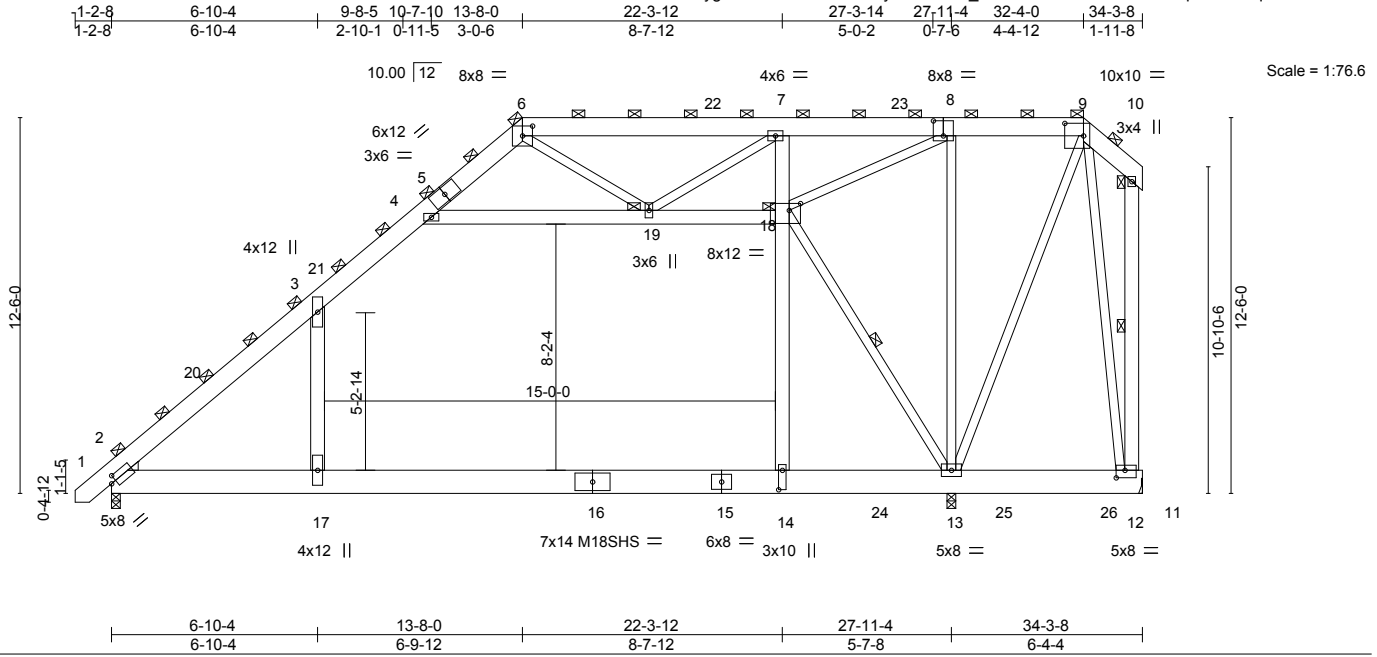


Plate Offsets (X,Y)--	[2:0-2-1,0-2-8], [6:0-4-0,0-3-15], [8:0-4-0,0-6-0], [9:0-7-8,0-5-0], [12:0-3-8,0-3-0], [14:0-7-12,0-1-8], [18:0-4-8,0-2-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.33 14-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.55 14-17 >602 240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.94	Horz(CT) 0.02 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10 14-17 >999 240		
				Weight: 881 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP 2400F 2.0E	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
BOT CHORD 2x10 SP 2400F 2.0E	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SP No.2 *Except*	Rigid ceiling directly applied or 10-0-0 oc bracing.
3-17,4-18,7-14,10-12: 2x6 SP No.1, 13-18: 2x4 SP No.1	WEBS 1 Row at midpt 10-12, 13-18
WEDGE	JOINTS 1 Brace at Jt(s): 6, 9, 18, 10, 19
Left: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 12=Mechanical
 Max Horz 2=781(LC 12)
 Max Uplift 13=-50(LC 8), 12=-170(LC 12)
 Max Grav 2=4318(LC 20), 13=3629(LC 27), 12=1953(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5521/0, 3-4=-3799/134, 4-6=-809/320, 6-7=-556/200, 7-8=-430/890, 8-9=-719/273, 10-12=-257/114
 BOT CHORD 2-17=-268/3802, 14-17=-268/3802, 13-14=-266/3788
 WEBS 3-17=0/2279, 4-19=-3979/142, 18-19=-4480/844, 14-18=0/3910, 7-18=-1701/716, 8-18=-1787/781, 8-13=-450/534, 9-13=-243/1355, 9-12=-1322/382, 6-19=-42/655, 7-19=-299/1090, 13-18=-5929/242

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-11-11 to 3-5-2, Interior(1) 3-5-2 to 13-8-0, Exterior(2) 13-8-0 to 19-10-11, Interior(1) 19-10-11 to 32-4-0, Exterior(2) 32-4-0 to 33-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 4-19, 18-19; Wall dead load (5.0psf) on member(s).3-17, 14-18
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-17
 - Refer to girder(s) for truss to truss connections.



Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334474
J1220-5661	A09	ATTIC	3	2	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:35 2021 Page 2
 ID:52SygMJAAHxrWtaExrbuZyFiSD-haiD_i9TMOalcvAW8P9JzktH2?3pMi8hwFqh05zt6aA

NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 12=170.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

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	Precision/Lot 35 Summerlin/Harnett	E15334475
J1220-5661	A09-A	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:36 2021 Page 1

ID:52SgMJAAhXrWtaExtrbuZyFiSD-9mGbC2A56ii8E3kii6gYWyPQrPOB5FWq9vaEYXzt6a9

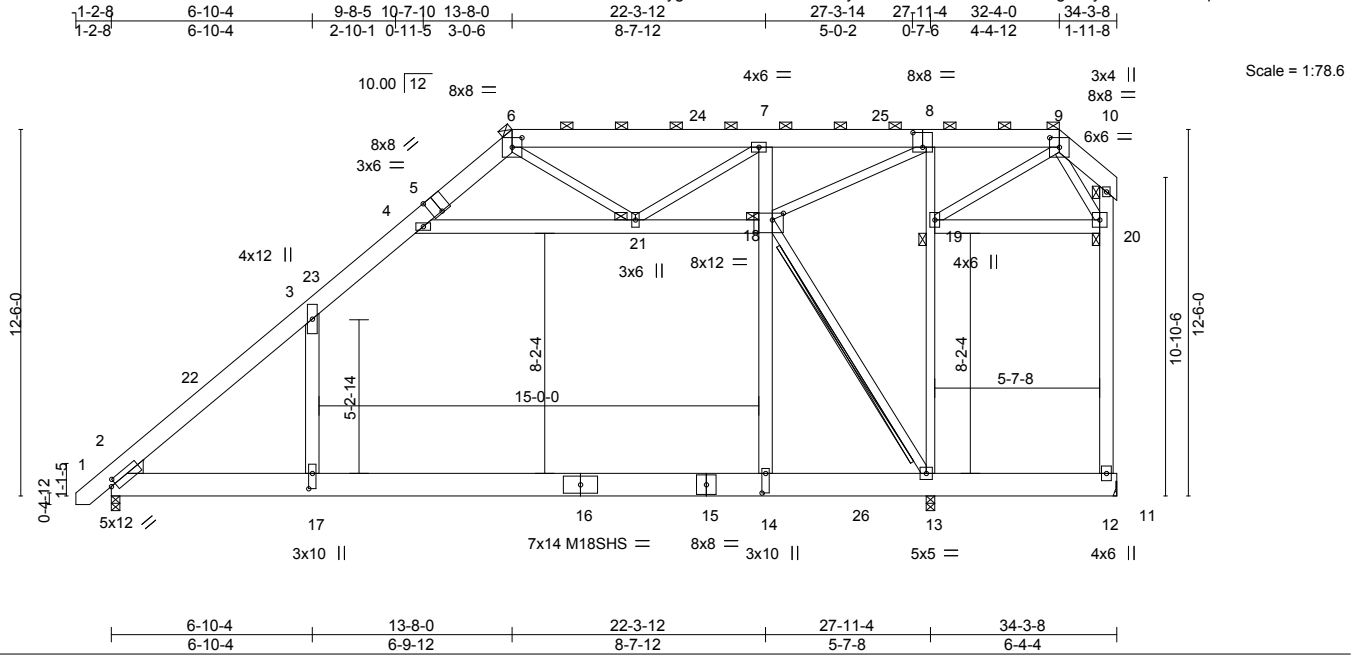


Plate Offsets (X,Y)--	[2:0-2-0,0-2-4], [5:0-4-0,Edge], [6:0-4-0,0-3-15], [8:0-4-0,0-6-0], [9:0-4-0,0-3-15], [14:0-8-0,0-1-8], [17:0-6-4,0-1-8], [18:0-4-8,0-2-12]
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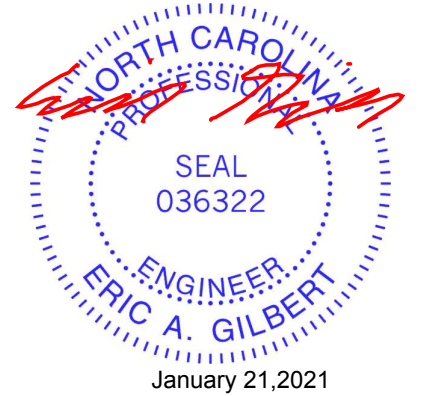
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.39 14-17 >847 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.66 14-17 >502 240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.74	Horz(CT) 0.02 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.12 14-17 >999 240		
				Weight: 863 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP 2400F 2.0E	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 3-17,4-18,7-14,10-12,19-20: 2x6 SP No.1, 13-18: 2x4 SP 2400F 2.0E	WEBS T-Brace: 2x6 SPF No.2 - 13-18
WEDGE Left: 2x6 SP No.2	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.
	JOINTS 1 Brace at Jt(s): 6, 9, 18, 19, 10, 20, 21

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 12=Mechanical
 Max Horz 2=941(LC 12)
 Max Grav 2=4886(LC 20), 13=6465(LC 2), 12=1446(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-6241/0, 3-4=-4150/0, 4-6=-758/550, 6-7=-845/1106, 7-8=-1541/2847, 8-9=-346/256, 9-10=-297/432, 12-20=-619/24, 10-20=-287/330
 BOT CHORD 2-17=-827/4206, 14-17=-827/4206, 13-14=-821/4188, 12-13=-330/316
 WEBS 3-17=0/2727, 4-21=-4771/101, 18-21=-6277/1709, 14-18=0/4707, 7-18=-2337/1174, 8-18=-2871/1323, 13-19=-854/754, 8-19=-390/990, 9-19=-542/644, 9-20=-465/181, 6-21=-746/1085, 7-21=-867/2181, 13-18=-7879/932, 19-20=-537/457

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-11-11 to 3-5-2, Interior(1) 3-5-2 to 13-8-0, Exterior(2) 13-8-0 to 19-10-11, Interior(1) 19-10-11 to 32-4-0, Exterior(2) 32-4-0 to 33-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 4-21, 18-21, 19-20; Wall dead load (5.0psf) on member(s). 3-17, 14-18, 13-19
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-17, 12-13
 - Refer to girder(s) for truss to truss connections.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334475
J1220-5661	A09-A	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:36 2021 Page 2
 ID:52SytMJAAHxrWTaExlrbuZyFiSD-9mGbC2A56ii8E3kii6gYWyPQrPOB5FWq9vaEYXzt6a9

NOTES-

- 13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 14) Attic room checked for L/360 deflection.

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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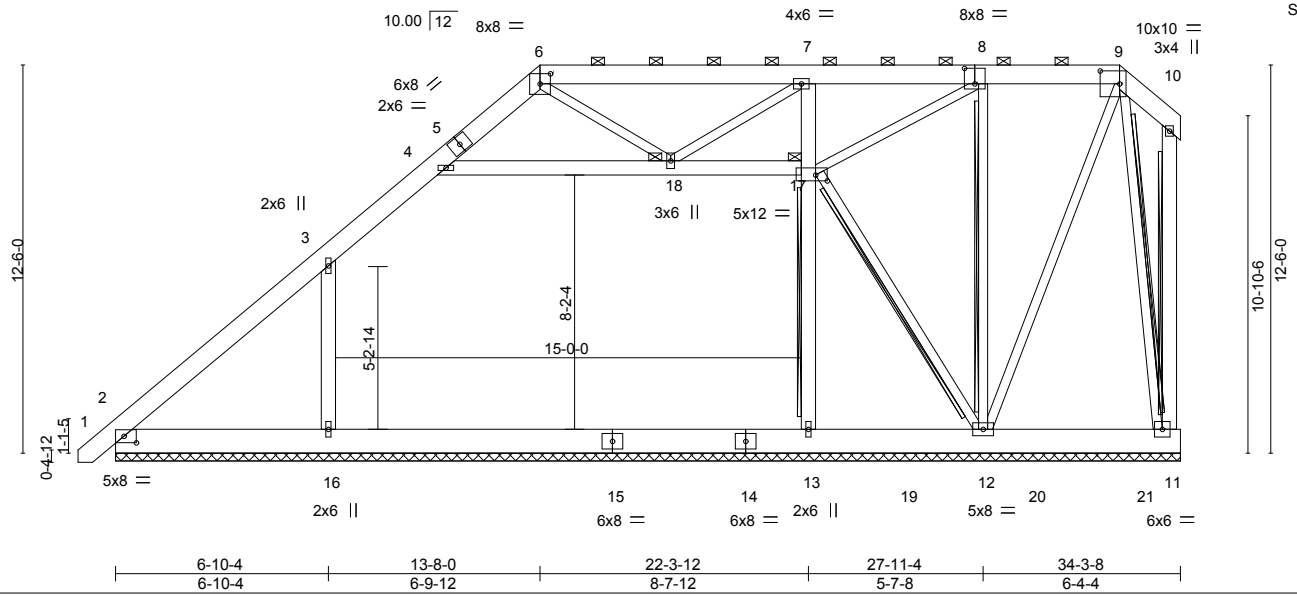
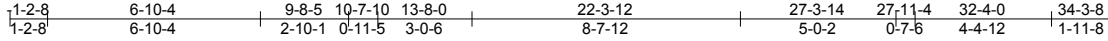


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334476
J1220-5661	A10-GE	ATTIC	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:38 2021 Page 1

ID:52SgMJAAhxrWTAExlrbuZyFiSD-59OMdkCLEJysTMu5pXi0bNVvbC6VZDN7cD3LdQzt6a7



Scale = 1.74.2

Plate Offsets (X,Y)-- [2:0-4-12,0-2-8], [6:0-4-0,0-3-15], [8:0-4-0,0-6-0], [9:0-7-8,0-5-0], [17:0-4-8,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.01	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 440 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x4 SP No.2 *Except*
 3-16,4-17,7-13,10-11: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9. Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD
 WEBS T-Brace: 2x4 SPF No.2 - 13-17, 8-12, 10-11, 9-11, 12-17
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.
 1 Brace at Jt(s): 17, 18

REACTIONS.

All bearings 34-3-8.
 (lb) - Max Horz 2=533(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 11 except 16=253(LC 12), 12=227(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 2=607(LC 24), 16=1378(LC 20), 13=1295(LC 27), 12=698(LC 1), 11=410(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=697/25, 3-4=750/140, 4-6=514/172
 BOT CHORD 2-16=-172/426, 13-16=-172/426, 12-13=-173/429
 WEBS 3-16=-734/385, 17-18=-596/232, 13-17=-480/260, 7-17=-777/327, 8-17=-303/115, 7-18=-43/483, 12-17=-694/271

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 4-18, 17-18; Wall dead load (5.0psf) on member(s). 3-16, 13-17
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 11 except (jt=lb) 16=253, 12=227.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- Attic room checked for L/360 deflection.



January 21, 2021

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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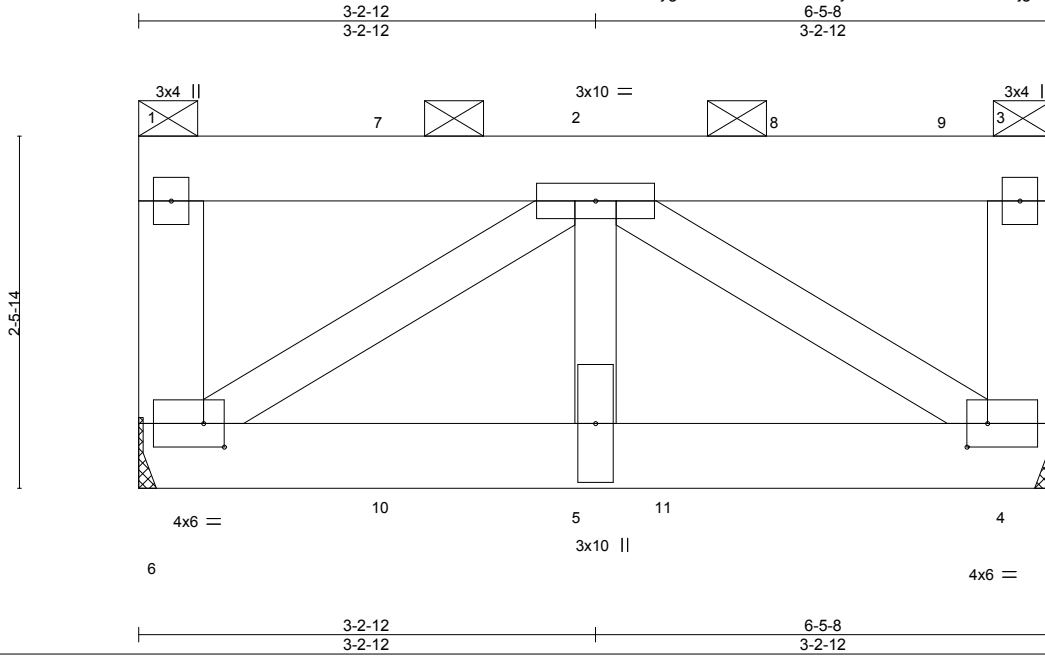


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334477
J1220-5661	A11	Flat	1	2	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:40 2021 Page 1
ID:52SgMJAaHxrWTAExlrbuZyFiSD-2XV62PDbAwCajg2TxykUgoaFG0qB1ADQ4XYRhJzt6a5



Scale = 1:16.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -0.01	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.02	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.01	5-6	>999	240	Weight: 98 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-6,3-4: 2x6 SP No.1

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 4=Mechanical
 Max Uplift 6=-211(LC 8), 4=-278(LC 8)
 Max Grav 6=1725(LC 2), 4=2444(LC 2)

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

TOP CHORD 3-4=-1141/162
 BOT CHORD 5-6=-293/1726, 4-5=-293/1726
 WEBS 2-4=-2084/353, 2-6=-2084/353, 2-5=-195/2012

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 6-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=211, 4=278.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1239 lb down and 169 lb up at 5-9-12 on top chord, and 1255 lb down and 163 lb up at 1-9-12, and 1255 lb down and 163 lb up at 3-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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



January 21, 2021

Continued on page 2

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334477
J1220-5661	A11	Flat	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:41 2021 Page 2
 ID:52SygMJAaHxrWTAExlrbuZyFiSD-Wk3UFIEDxEKRKqdgVgGjD?7Q0QAQmdTZJBH?Elzt6a4

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 4-6=-20

Concentrated Loads (lb)

Vert: 9=-1032 10=-1055 11=-1055

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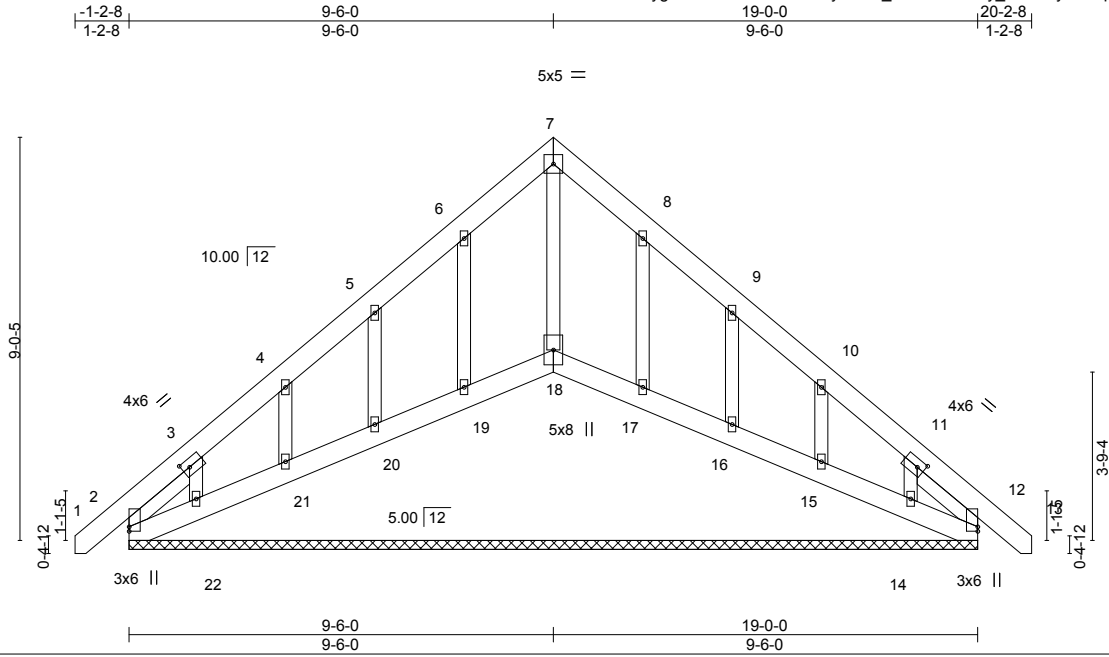


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334478
J1220-5661	B1-GE	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:42 2021 Page 1
ID:52SygMJAAaHxWTaExlrbuZyFiSD_wdtS5FsiYSly_Cs2NnyIDfd?pbAV6QjXq1YmBzt6a3



Scale = 1:51.6

Plate Offsets (X,Y)-- [3:0-2-0,0-2-0], [11:0-2-0,0-2-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	13	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 154 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 -x 1-10-12, Right 2x4 SP No.2 -x 1-10-12

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 19-0-0.
 (lb) - Max Horz 2=-264(LC 20)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 12, 19, 17 except 2=-213(LC 8), 20=-117(LC 12), 21=-117(LC 12), 22=-215(LC 12), 16=-120(LC 13), 15=-115(LC 13), 14=-188(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 12, 19, 20, 21, 22, 17, 16, 15, 14 except 2=300(LC 20), 18=405(LC 13)

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

TOP CHORD 2-3=-340/258, 11-12=-259/177

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in 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, 12, 19, 17 except (jt=lb) 2=213, 20=117, 21=117, 22=215, 16=120, 15=115, 14=188.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18, 19, 20, 21, 22, 17, 16, 15, 14.



January 21, 2021

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	Precision/Lot 35 Summerlin/Harnett	E15334479
J1220-5661	B2	SCISSORS	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:43 2021 Page 1

ID:52SygMJAaHxrWTaExlrbuZyFiSD-S6BFgRFUTra9a7n2c4IBlQCjkDsDEXSsmUm6ldzt6a2

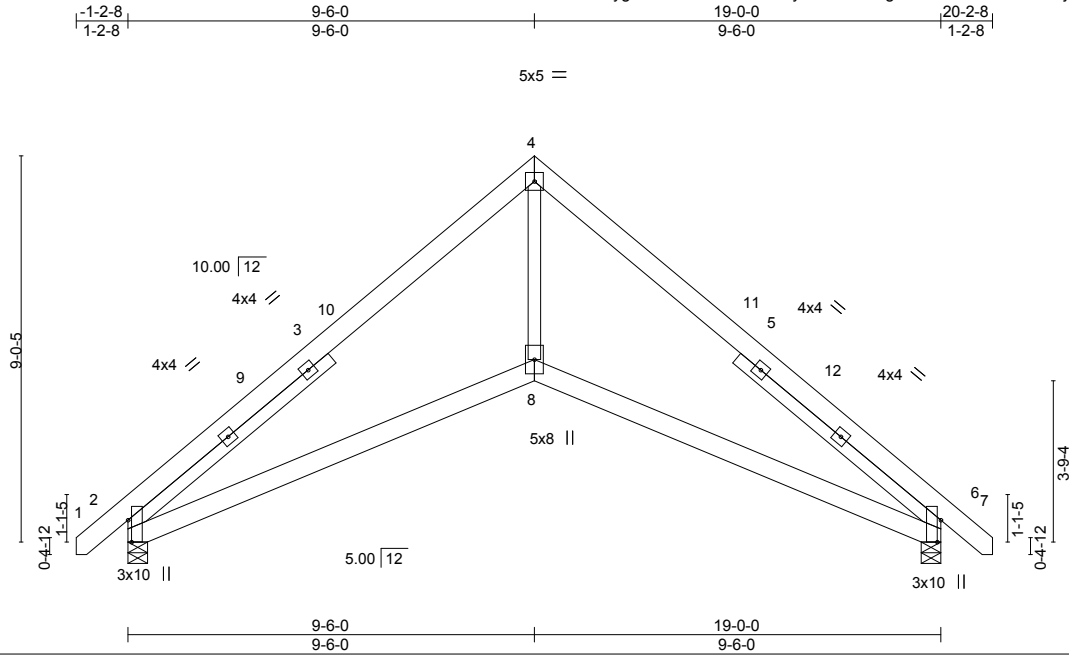


Plate Offsets (X,Y)-- [2:0-6-3,Edge], [6:0-6-3,Edge]

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 0.36	Vert(LL)	-0.06	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.13	6-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.05	6	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S	Wind(LL)	-0.04	8	>999	240		
									Weight: 140 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 -x 6-2-10, Right 2x4 SP No.2 -x 6-2-10

BRACING-

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

REACTIONS.

(size) 2=0-5-8, 6=0-5-8
 Max Horz 2=-212(LC 10)
 Max Uplift 2=-46(LC 12), 6=-46(LC 13)
 Max Grav 2=822(LC 1), 6=822(LC 1)

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

TOP CHORD 2-4=-1228/128, 4-6=-1228/123
 BOT CHORD 2-8=0/957, 6-8=0/952
 WEBS 4-8=0/912

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 9-6-0, Exterior(2) 9-6-0 to 13-10-13, Interior(1) 13-10-13 to 20-1-1 zone; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



January 21, 2021

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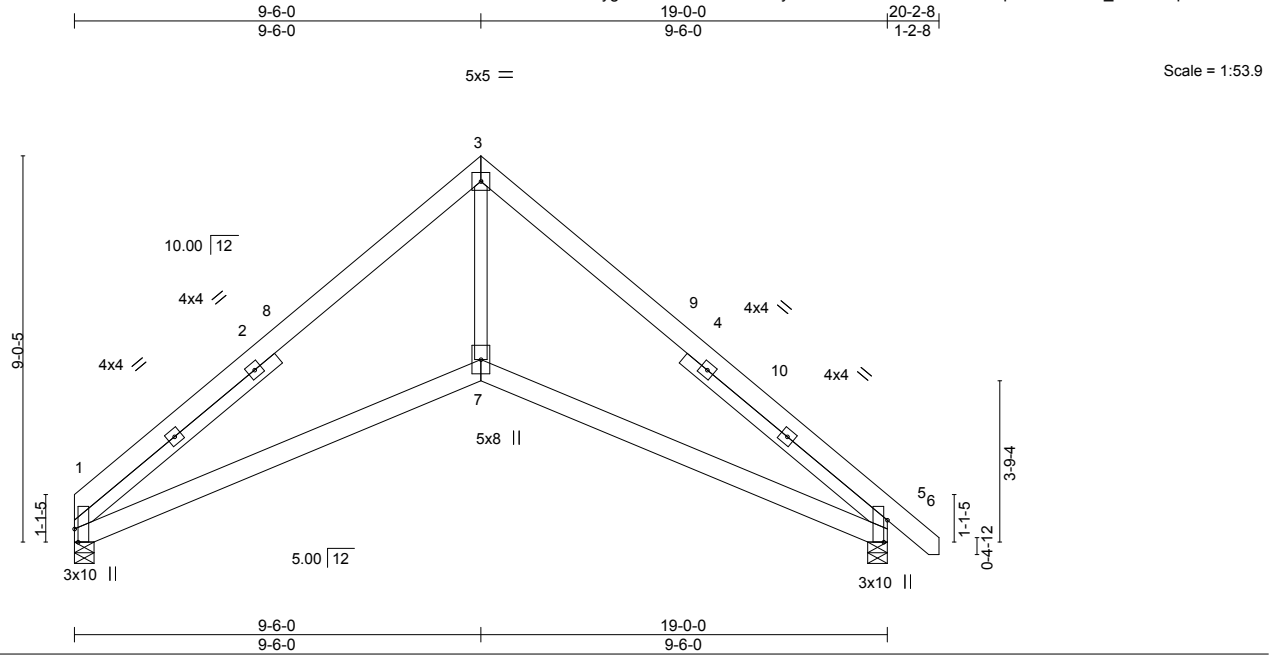


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334480
J1220-5661	B2-A	SCISSORS	2	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:44 2021 Page 1
 ID:52SygMJAAHxrWtaExlrbuZyFiSD-wJldtnG6E9I0BHMFAopQrekuPdClz_h0?8Wfq4zt6a1



LOADING (psf)		SPACING-		CSI.	DEFL.				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.36	in	(loc)	l/defl	L/d	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(LL)	-0.07	1-7	>999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Vert(CT)	-0.14	1-7	>999		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Horz(CT)	0.05	5	n/a		
						Wind(LL)	-0.04	7	>999		
										Weight: 136 lb	FT = 20%

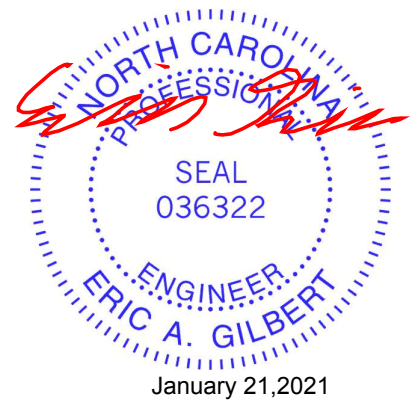
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 -x 6-2-10, Right 2x4 SP No.2 -x 6-2-10

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

REACTIONS. (size) 1=0-5-8, 5=0-5-8
 Max Horz 1=-210(LC 10)
 Max Uplift 1=-28(LC 12), 5=-47(LC 13)
 Max Grav 1=743(LC 1), 5=824(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1234/139, 3-5=-1236/125
 BOT CHORD 1-7=0/963, 5-7=0/958
 WEBS 3-7=0/917

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-2 to 4-6-15, Interior(1) 4-6-15 to 9-6-0, Exterior(2) 9-6-0 to 13-10-13, Interior(1) 13-10-13 to 20-1-1 zone; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



January 21, 2021

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334481
J1220-5661	C1-GE	ATTIC	1	1		

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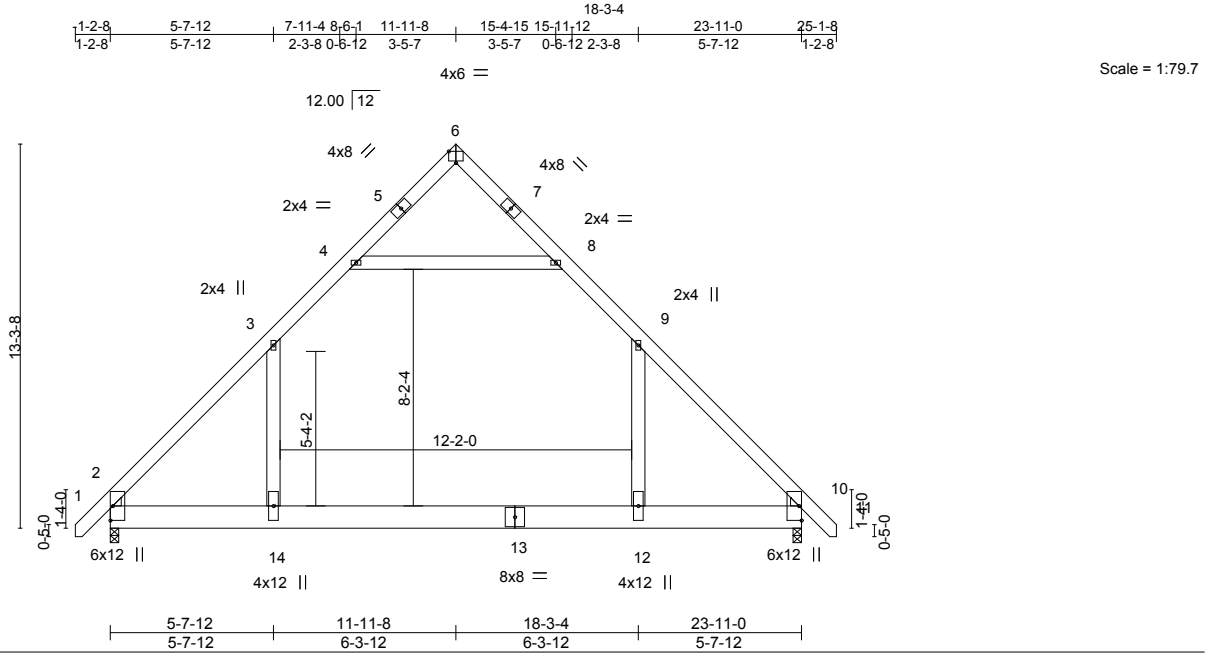


Plate Offsets (X,Y)-- [2:0-1-1,0-3-6], [2:0-0-8,0-0-8], [6:0-3-0,Edge], [10:0-0-8,0-0-8], [10:0-1-1,0-3-6]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) -0.28 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.63	Vert(CT) -0.48 12-14 >593 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.13 12-14 >999 240	Weight: 227 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
 1-5,7-11: 2x6 SP 2400F 2.0E
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1
 WEDGE
 Left: 2x4 SP No.2, Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-11-2 oc bracing.

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
 Max Horz 2=-391(LC 10)
 Max Grav 2=1601(LC 20), 10=1601(LC 21)

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

TOP CHORD 2-3=-2166/4, 3-4=-1166/186, 8-9=-1165/186, 9-10=-2165/3
 BOT CHORD 2-14=0/1268, 12-14=0/1268, 10-12=0/1268
 WEBS 9-12=0/1051, 3-14=0/1051, 4-8=-1360/239

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-8; Wall dead load (5.0psf) on member(s).9-12, 3-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- Attic room checked for L/360 deflection.



January 21, 2021

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334482
J1220-5661	C2	ATTIC	3	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:47 2021 Page 1

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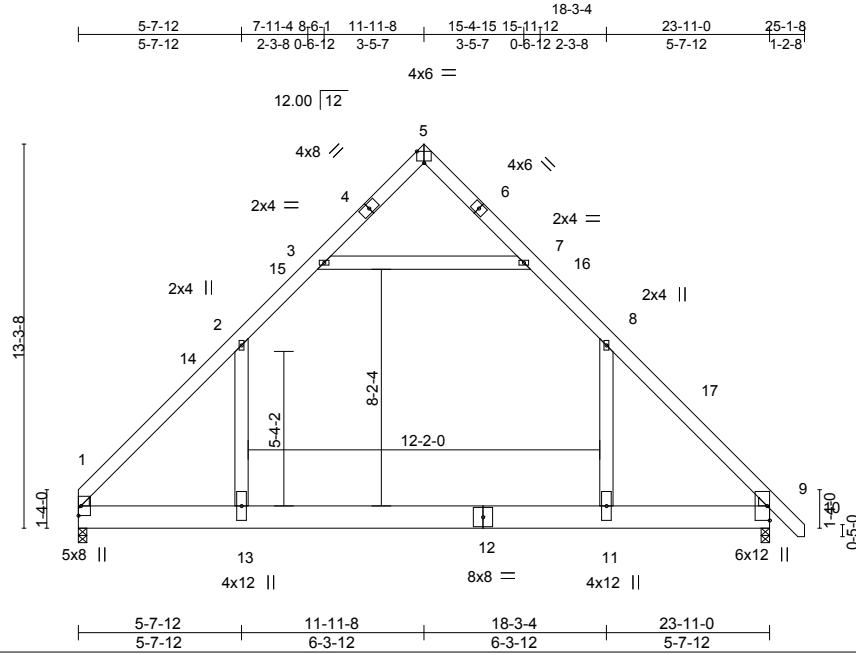


Plate Offsets (X,Y)-- [1:0-1-1,0-3-6], [1:0-0-8,0-0-8], [5:0-3-0,Edge], [9:0-0-8,0-0-8], [9:0-1-1,0-3-6]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.96	Vert(LL) -0.30	11-13	>936	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -0.52	11-13	>544	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT) 0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	11-13	>999	240	Weight: 224 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
6-10: 2x6 SP 2400F 2.0E
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2, Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 8-2-13 oc bracing.

REACTIONS.

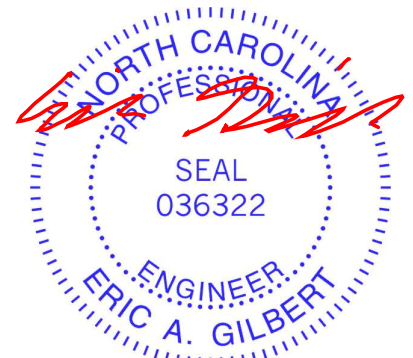
(size) 1=0-3-8, 9=0-3-8
Max Horz 1=-309(LC 8)
Max Grav 1=1549(LC 21), 9=1608(LC 21)

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

TOP CHORD 1-2=-2094/0, 2-3=-1164/148, 7-8=-1152/141, 8-9=-2143/0
BOT CHORD 1-13=0/1237, 11-13=0/1237, 9-11=0/1237
WEBS 8-11=0/1061, 2-13=0/984, 3-7=-1374/163

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 25-0-2 zone; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-7; Wall dead load (5.0psf) on member(s).8-11, 2-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- Attic room checked for L/360 deflection.



January 21, 2021

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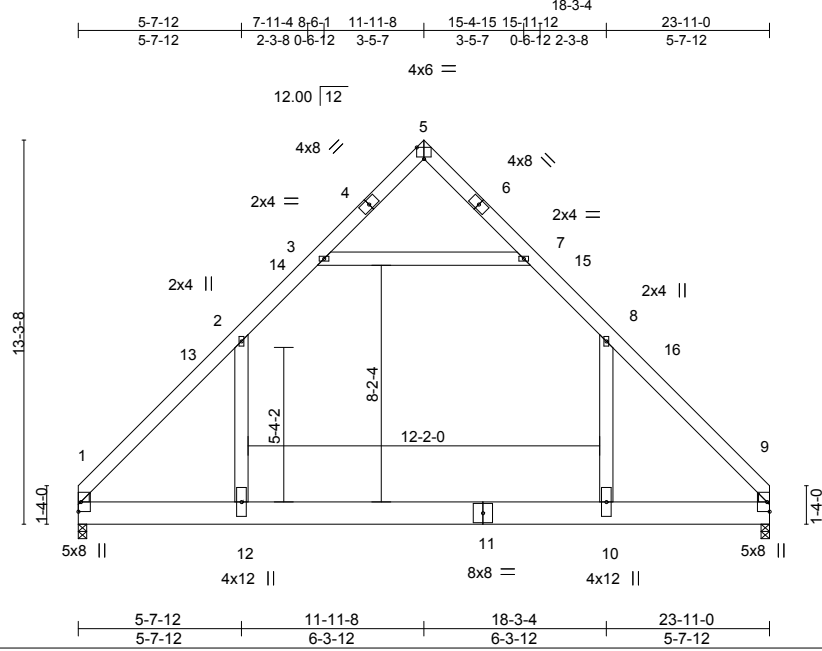
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334483
J1220-5661	C3	ATTIC	6	1		

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ID:52SgMJAAHxrWTaExlrbuZyFiSD-HGYWwUKF2hKI2ECzLPbYhSbQenUe9Ql8QDQVHzt6Zy



Scale = 1:79.7

Plate Offsets (X,Y)-- [1:0-1-1,0-3-6], [1:0-0-8,0-0-8], [5:0-3-0,Edge], [9:0-0-8,0-0-8], [9:0-1-1,0-3-6]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.98	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.33 10-12 >869 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.63	Vert(CT) -0.56 10-12 >502 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.11 10-12 >999 240	Weight: 220 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1
 WEDGE
 Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 7-6-8 oc bracing.

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=302(LC 9)
 Max Grav 1=1551(LC 21), 9=1551(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2096/0, 2-3=-1155/148, 7-8=-1154/148, 8-9=-2095/0
 BOT CHORD 1-12=0/1226, 10-12=0/1226, 9-10=0/1226
 WEBS 8-10=0/994, 2-12=0/994, 3-7=-1375/166

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 23-9-4 zone: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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-7; Wall dead load (5.0psf) on member(s).8-10, 2-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
 - Attic room checked for L/360 deflection.



January 21, 2021

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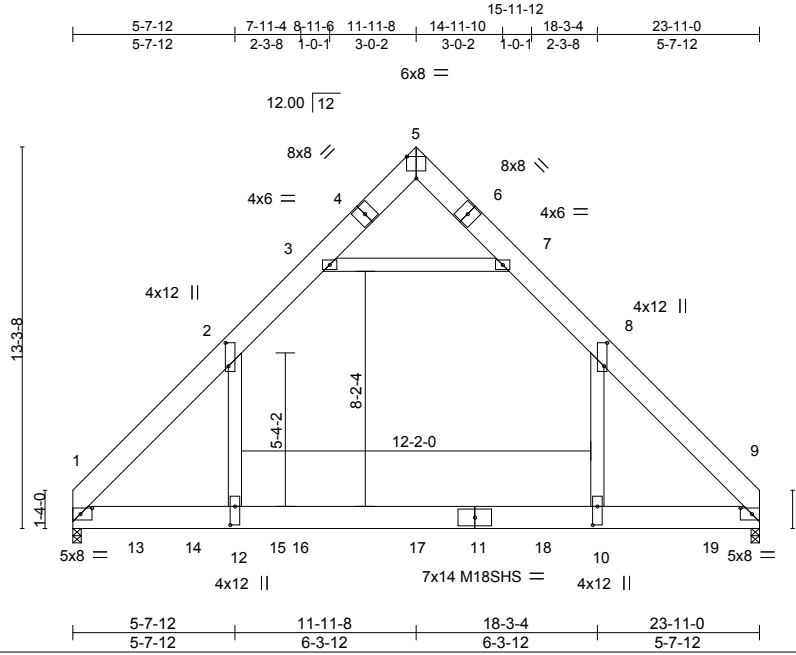
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334484
J1220-5661	C4	ATTIC GIRDER	1	2	Job Reference (optional)	

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ID:52SgMJAaHxrWTAExlrbuZyFiSD-IT6u8qLtp?T9wCpOW3wq4u_r529pNfXuN4zz1zt6Zx



Scale = 1:80.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.28 10-12 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.53 10-12 >537 240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.38	Horz(CT) 0.02 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.17 10-12 >999 240		
				Weight: 546 lb	FT = 20%

LUMBER-
 TOP CHORD 2x10 SP 2400F 2.0E
 BOT CHORD 2x10 SP 2400F 2.0E
 WEBS 2x6 SP No.1

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

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=296(LC 25)
 Max Uplift 1=-319(LC 9)
 Max Grav 1=6989(LC 2), 9=5997(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-7801/108, 2-3=-3338/69, 3-5=-129/1537, 5-7=-28/1263, 7-8=-3612/175,
 8-9=-7484/0
 BOT CHORD 1-12=0/4427, 10-12=0/4470, 9-10=0/4432
 WEBS 8-10=0/5228, 2-12=-224/6048, 3-7=-6388/189

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-7; Wall dead load (5.0psf) on member(s).8-10, 2-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=319.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1320 lb down and 183 lb up at 2-0-12, 1320 lb down and 183 lb up at 4-0-12, 747 lb down and 100 lb up at 6-0-12, 1719 lb down and 213 lb up at 7-9-8, 1719 lb down and 213 lb up at 11-10-8, and 1402 lb down at 16-3-0, and 1723 lb down and 208 lb up at 22-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - Attic room checked for L/360 deflection.

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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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334484
J1220-5661	C4	ATTIC GIRDER	1	2	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:50 2021 Page 2
 ID:52SygMJAaHxrWtaExlrbuZyFiSD-IT6u8qLtp?T9wCpOW3wq4u_r529pNfXuN4zz1jzt6Zx

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-80, 3-5=-60, 5-7=-60, 7-8=-80, 8-9=-60, 1-12=-20, 10-12=-40, 9-10=-20, 3-7=-20

Drag: 8-10=-10, 2-12=-10

Concentrated Loads (lb)

Vert: 13=-1222(B) 14=-1222(B) 15=-607(B) 16=-1395(B) 17=-1395(B) 18=-969(B) 19=-1400(B)

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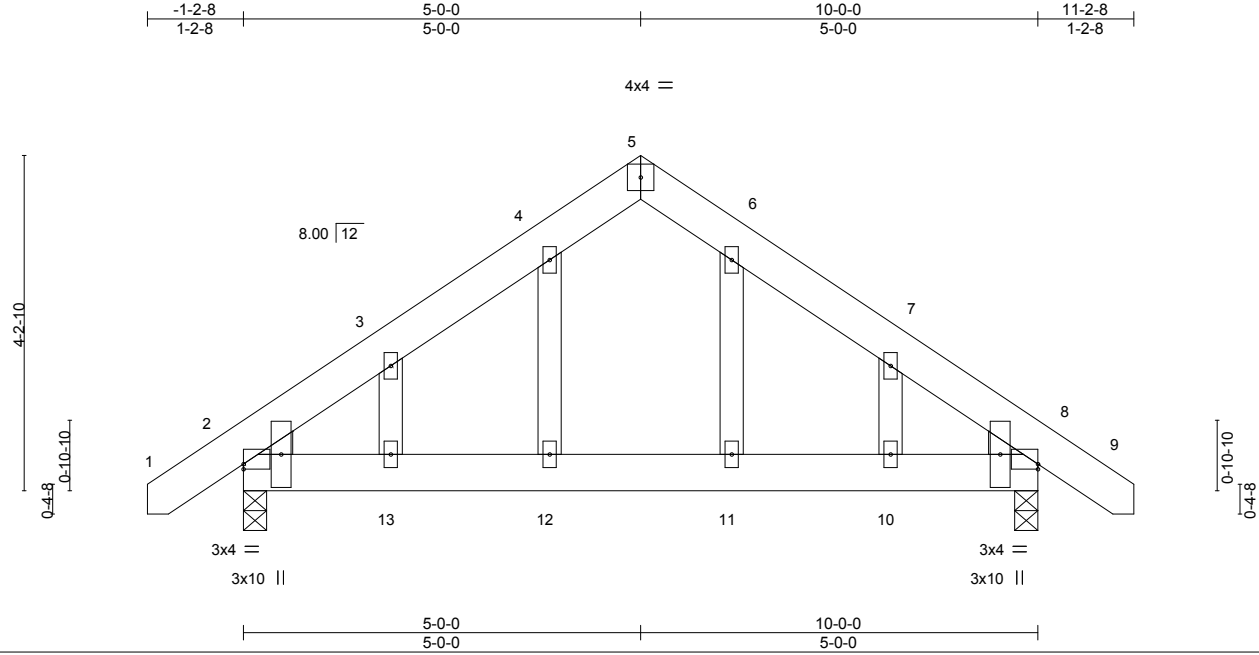
818 Soundside Road
 Edenton, NC 27932

Job J1220-5661	Truss D1-SG	Truss Type GABLE	Qty 1	Ply 1	Precision/Lot 35 Summerlin/Harnett E15334485
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Comtech, Inc. Fayetteville, NC - 28314,

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ID:52SyygMJAaHxrWtaExlrbuZyFiSD-DfgGLAMVaJb0XMOB4mR3d6X8SSes6CN2ckiXZAzt6Zw



Scale = 1:29.0

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	0.01	13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.01	10-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 72 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-

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

REACTIONS.

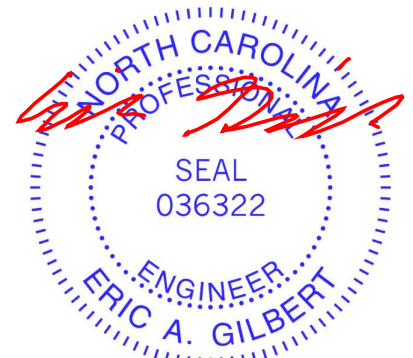
(size) 2=0-3-8, 8=0-3-8
 Max Horz 2=121(LC 11)
 Max Uplift 2=-108(LC 12), 8=-108(LC 13)
 Max Grav 2=462(LC 1), 8=462(LC 1)

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

TOP CHORD 2-3=-423/391, 3-4=-367/422, 4-5=-290/336, 5-6=-290/336, 6-7=-367/422, 7-8=-423/391
 BOT CHORD 2-13=-211/273, 12-13=-211/273, 11-12=-211/273, 10-11=-211/273, 8-10=-211/273

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2'-0" 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 30.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=108, 8=108.



January 21, 2021

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334486
J1220-5661	D2	COMMON	4	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:52 2021 Page 1
 ID:52SygMJAaHxrWTAExirbuZyFiSD-hrEfZWM7Lcjt9WzneTyl9J4lcryWre0BqOS46czt6Zv

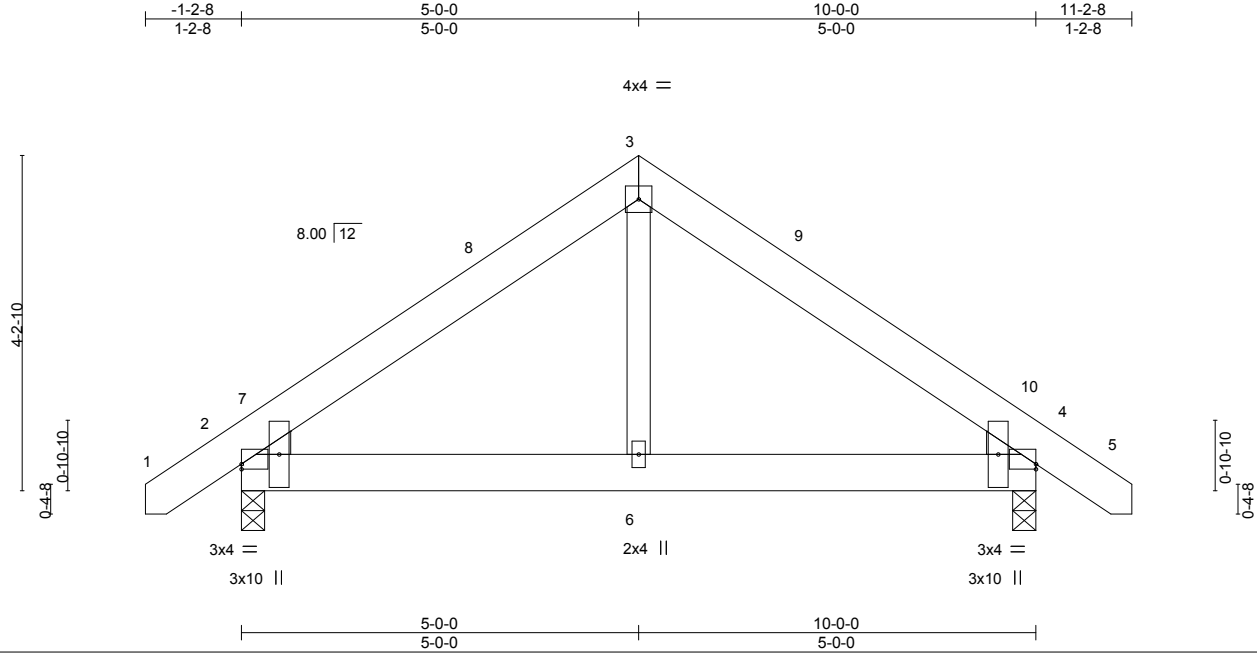


Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [4:0-0-0,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) 0.01	4-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.01	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 65 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
 Max Horz 2=97(LC 11)
 Max Uplift 2=-62(LC 9), 4=-62(LC 8)
 Max Grav 2=462(LC 1), 4=462(LC 1)

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

TOP CHORD 2-3=-438/417, 3-4=-438/417
 BOT CHORD 2-6=-214/278, 4-6=-214/278
 WEBS 3-6=-305/230

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 5-0-0, Exterior(2) 5-0-0 to 9-4-13, Interior(1) 9-4-13 to 11-0-15 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in 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, 4.



January 21, 2021

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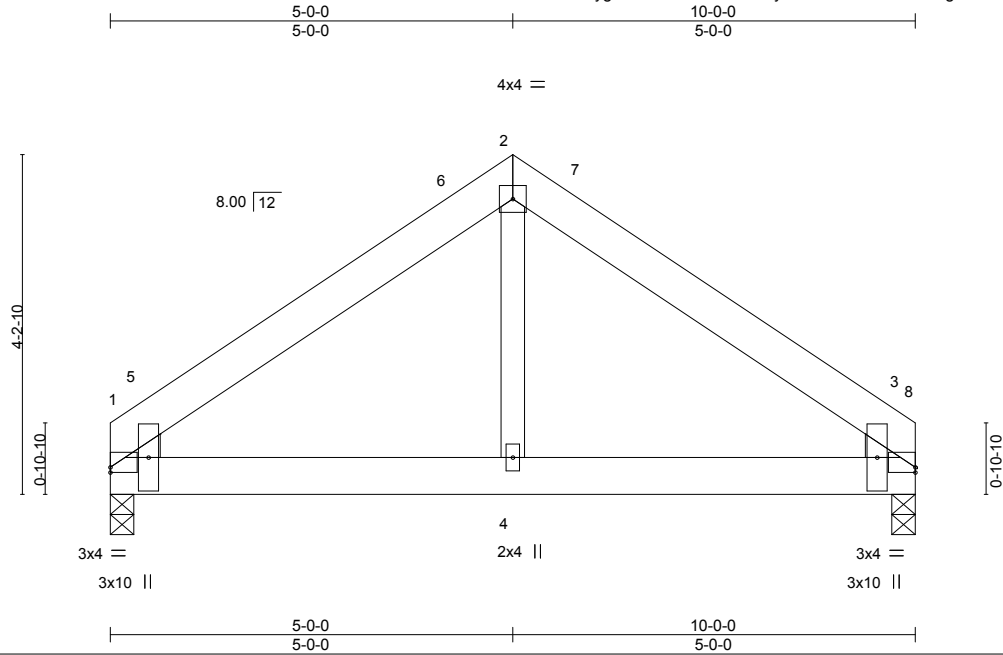
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334487
J1220-5661	D3	COMMON	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

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ID:52SygMJAaHxrWTAExlrbuZyFiSD-92o1msNI6wrkngYzCBTXiXcTaF1a5FK32Bee2zt6Zu



Scale = 1:28.6

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) 0.01	1-4	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.01	1-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 59 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-

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

REACTIONS.

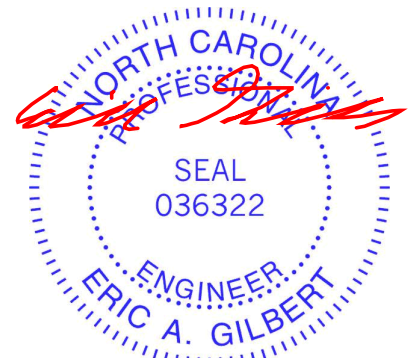
(size) 1=0-3-8, 3=0-3-8
 Max Horz 1=-89(LC 10)
 Max Uplift 1=-56(LC 9), 3=-56(LC 8)
 Max Grav 1=388(LC 1), 3=388(LC 1)

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

TOP CHORD 1-2=-452/429, 2-3=-452/429
 BOT CHORD 1-4=-245/294, 3-4=-245/294
 WEBS 2-4=-309/235

NOTES-

- Unbalanced roof live loads HAVING been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 5-0-0, Exterior(2) 5-0-0 to 9-4-13, Interior(1) 9-4-13 to 9-10-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in 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, 3.



January 21, 2021

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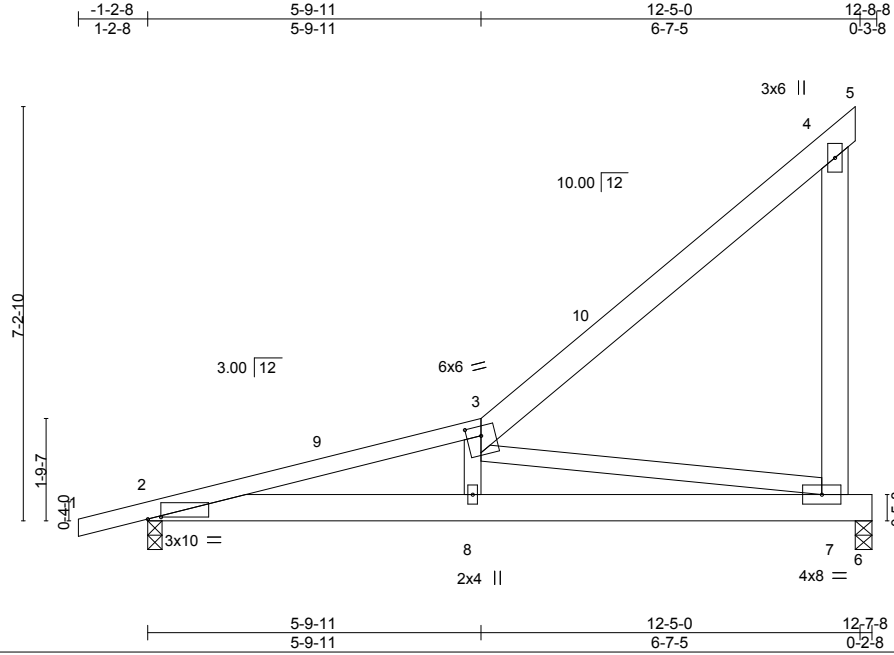


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334488
J1220-5661	M1	ROOF SPECIAL	3	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:54 2021 Page 1
 ID:52SygMJAaHxrWTAExlrbuZyFiSD-dELP_CONTEzbOq7Alu_mEK9cJfeMJN8UIixBAVzt6Zt



Scale = 1:40.2

Plate Offsets (X,Y)-- [2:0-2-12,0-0-7], [3:0-3-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	-0.04	8	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(CT)	-0.09	7-8	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.79	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.09	7-8	>999	Weight: 86 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
 3-5: 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 4-7: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-1 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-1-3 oc bracing.

REACTIONS.

(size) 2=0-3-0, 6=0-3-8
 Max Horz 2=225(LC 12)
 Max Uplift 2=-182(LC 8), 6=-178(LC 9)
 Max Grav 2=578(LC 1), 6=481(LC 1)

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

TOP CHORD 2-3=-1260/945, 4-7=-259/190
 BOT CHORD 2-8=-1158/1186, 7-8=-1119/1170
 WEBS 3-8=-353/280, 3-7=-1151/1093

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 12-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=182, 6=178.



January 21, 2021

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334489
J1220-5661	PB1	GABLE	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:55 2021 Page 1
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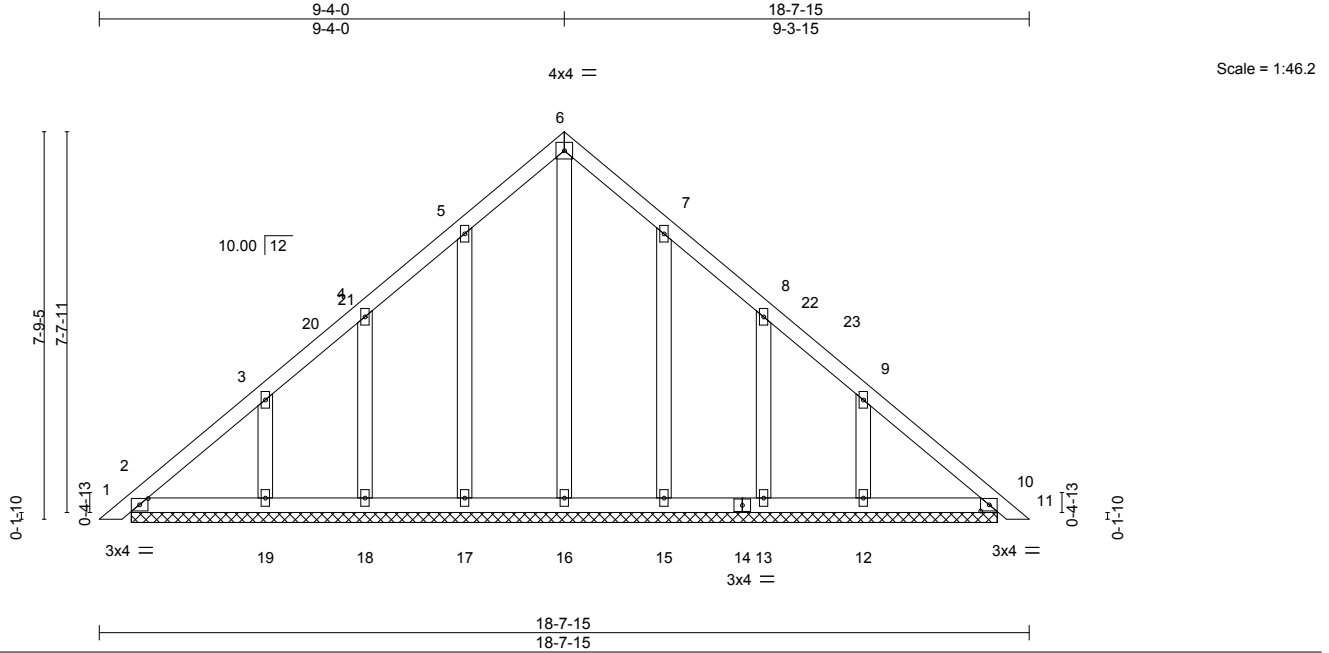


Plate Offsets (X,Y)--	[2:0-2-1,0-1-8], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-2-1,0-1-8]
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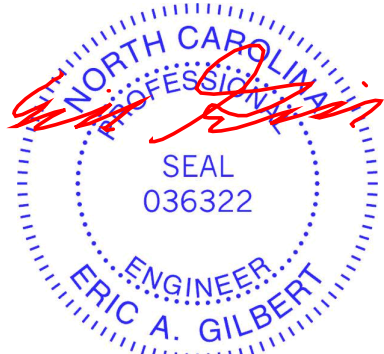
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) 0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 106 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 17-4-8.
 (lb) - Max Horz 2=-182(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 17, 18, 19, 15, 13, 12
 Max Grav All reactions 250 lb or less at joint(s) 2, 16, 17, 18, 10, 19, 15, 13, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-4-0, Exterior(2) 9-4-0 to 13-8-12, Interior(1) 13-8-12 to 18-5-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in 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, 17, 18, 19, 15, 13, 12.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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<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	Precision/Lot 35 Summerlin/Harnett	E15334490
J1220-5661	PB2	PIGGYBACK	12	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:56:56 2021 Page 1
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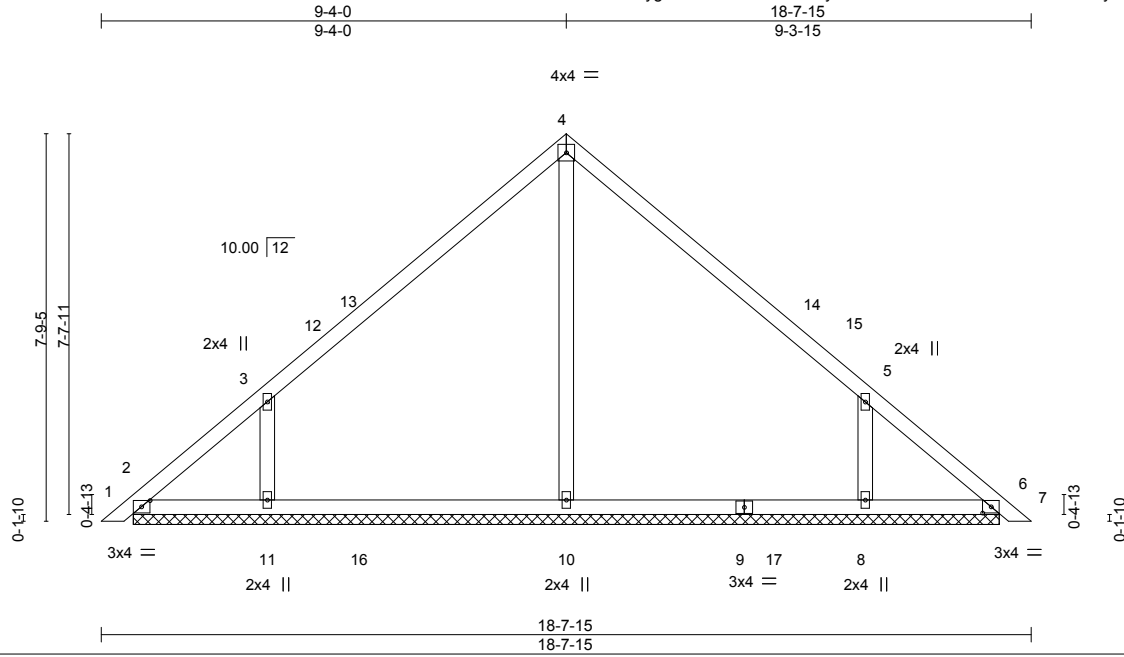


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [5:0-0-0,0-0-0], [6:0-2-1,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.00	7	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.00	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 79 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 17-4-8.
 (lb) - Max Horz 2=-182(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 11=-187(LC 12), 8=-187(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 10=624(LC 19), 11=558(LC 19), 8=557(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-11=-463/320, 5-8=-463/320

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-4-0, Exterior(2) 9-4-0 to 13-8-12, Interior(1) 13-8-12 to 18-5-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 11=187, 8=187.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334491
J1220-5661	PB3	PIGGYBACK	3	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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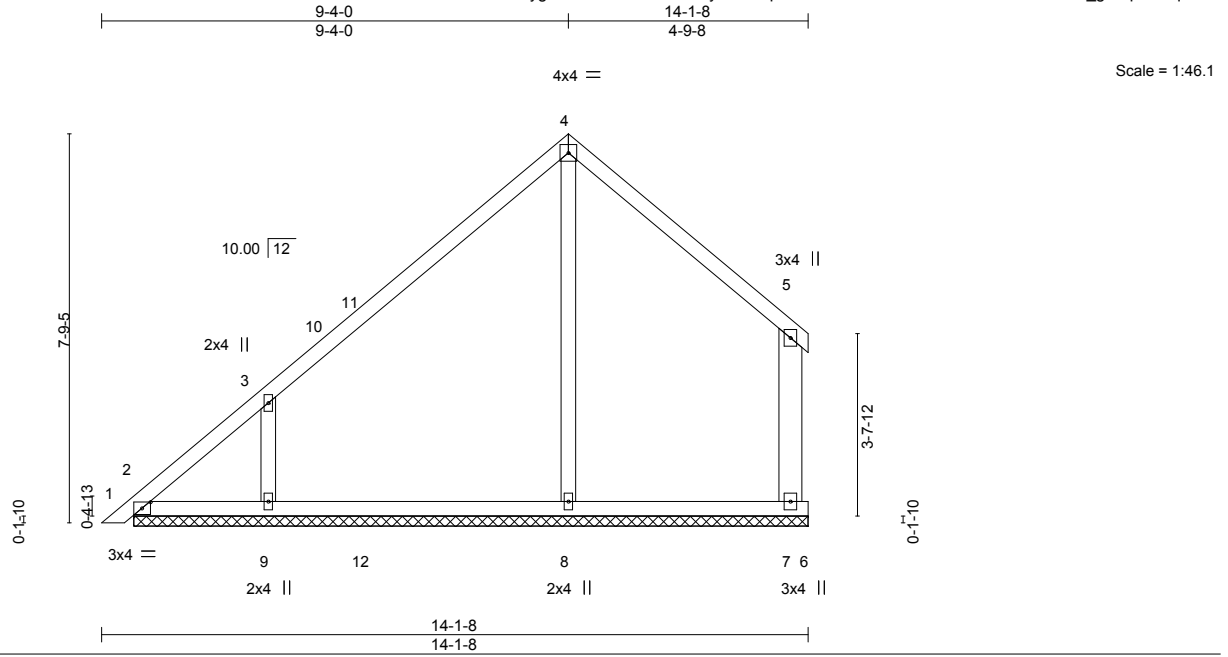


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 69 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 13-5-12.
(lb) - Max Horz 2=176(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 7, 2 except 9=187(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2 except 7=306(LC 20), 8=647(LC 19), 9=575(LC 19)

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

WEBS 4-8=285/67, 3-9=481/339

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-4-0, Exterior(2) 9-4-0 to 13-9-4 zone; 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 30.0psf on the bottom chord in 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) 7, 2 except (jt=lb) 9=187.
- Non Standard bearing condition. Review required.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 21, 2021

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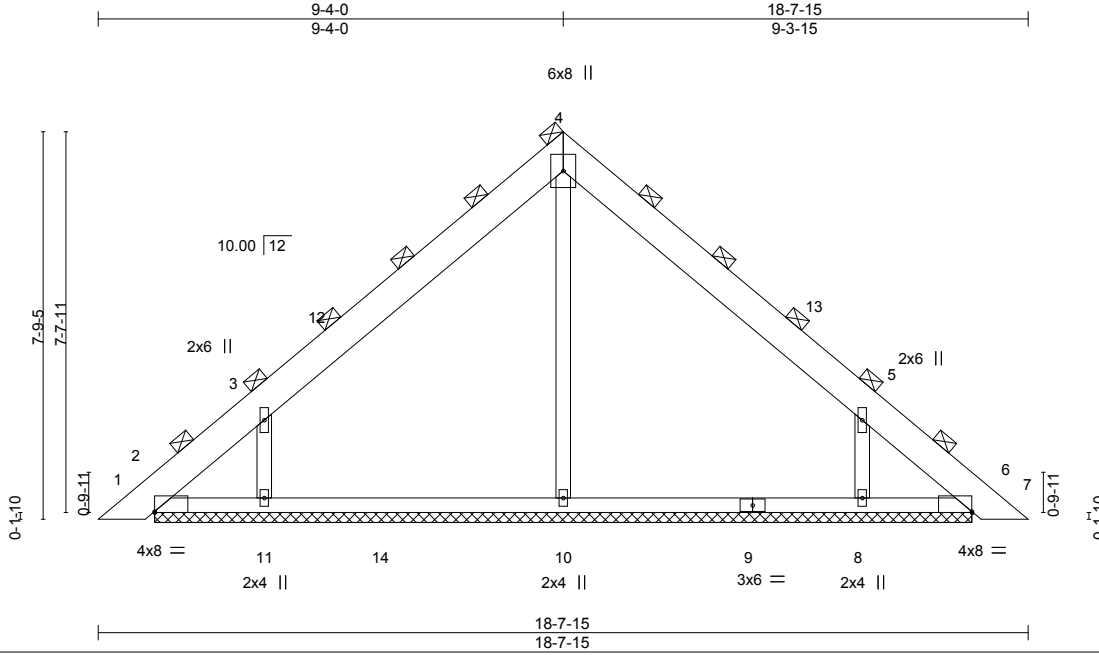
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334492
J1220-5661	PB4	PIGGYBACK	4	1		

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Scale = 1:46.2

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.00	7	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) 0.00	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.42	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 114 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 7-2-13 oc bracing.

REACTIONS. All bearings 16-4-13.
(lb) - Max Horz 2=442(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 6 except 2=-207(LC 8), 11=-473(LC 12), 8=-463(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=384(LC 20), 10=1466(LC 19), 11=1332(LC 19),
8=1332(LC 20), 6=311(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-548/363, 3-4=-627/458, 4-5=-588/466, 5-6=-415/185
BOT CHORD 2-11=-95/311, 10-11=-94/290, 8-10=-94/290, 6-8=-79/300
WEBS 4-10=-505/6, 3-11=-1111/786, 5-8=-1113/785

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-11 to 4-10-7, Interior(1) 4-10-7 to 9-4-0, Exterior(2) 9-4-0 to 13-8-12, Interior(1) 13-8-12 to 18-2-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in 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) 6 except (jt=lb) 2=207, 11=473, 8=463.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334493
J1220-5661	VA1	GABLE	1	1		

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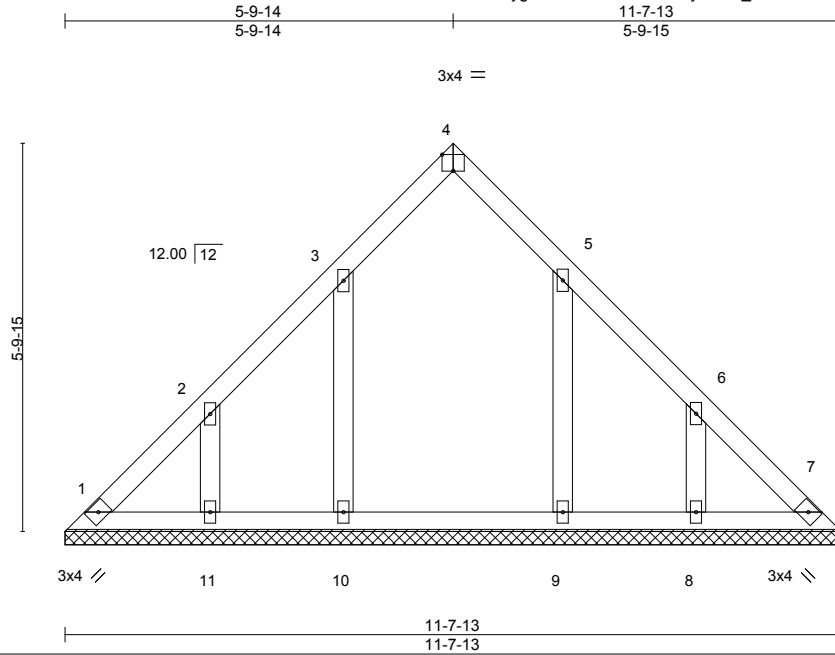


Plate Offsets (X,Y)-- [4:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 56 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

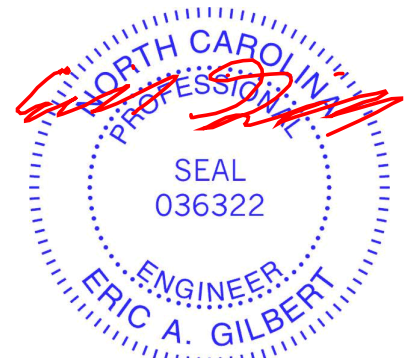
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-7-13.
 (lb) - Max Horz 1=-164(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 10=-109(LC 12), 11=-160(LC 12), 9=-105(LC 13), 8=-161(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 8 except 10=298(LC 19), 9=293(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in 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) 1, 7 except (jt=lb) 10=109, 11=160, 9=105, 8=161.



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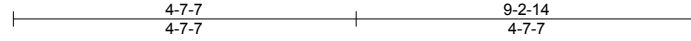


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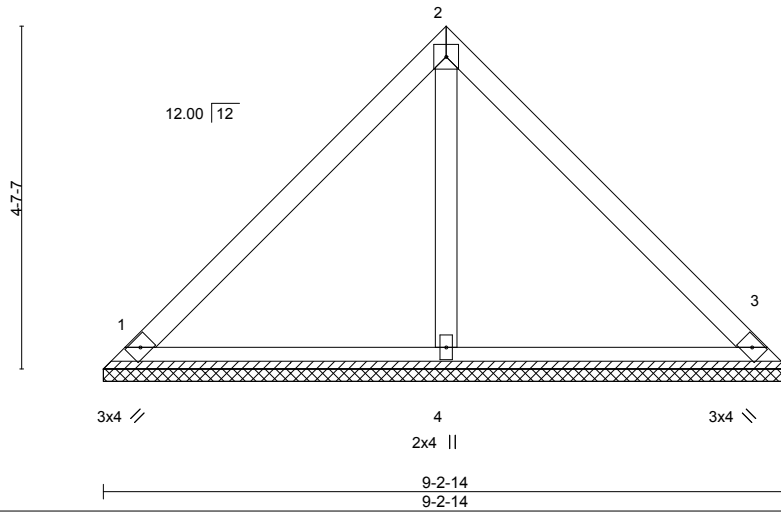
Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334494
J1220-5661	VA2	VALLEY	1	1		

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8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Jan 21 13:57:00 2021 Page 1
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Scale = 1:31.1



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 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 38 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=9-2-14, 3=9-2-14, 4=9-2-14
 Max Horz 1=-102(LC 8)
 Max Uplift 1=-25(LC 13), 3=-25(LC 13)
 Max Grav 1=194(LC 1), 3=194(LC 1), 4=296(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in 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, 3.



January 21, 2021

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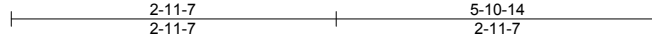
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Summerlin/Harnett	E15334495
J1220-5661	VA3	VALLEY	1	1		

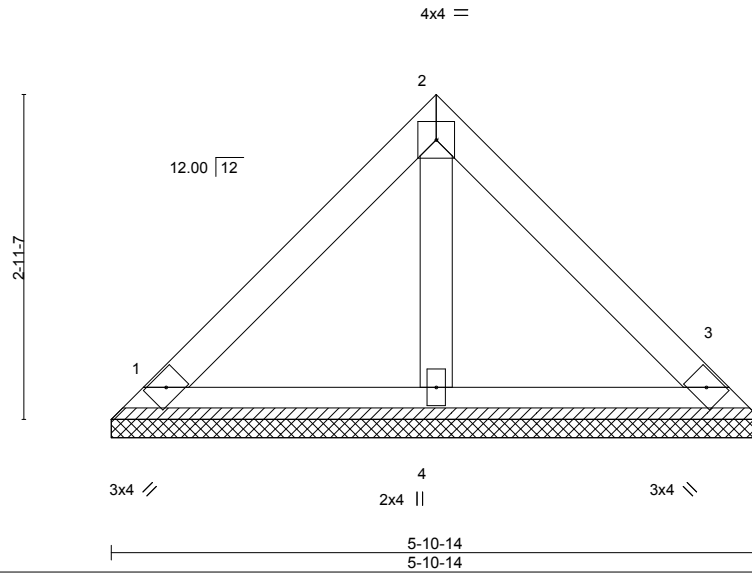
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Scale = 1:20.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-10-14, 3=5-10-14, 4=5-10-14
 Max Horz 1=-62(LC 8)
 Max Uplift 1=-23(LC 13), 3=-23(LC 13)
 Max Grav 1=127(LC 1), 3=127(LC 1), 4=163(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in 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, 3.



January 21, 2021

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

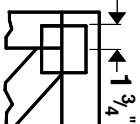
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



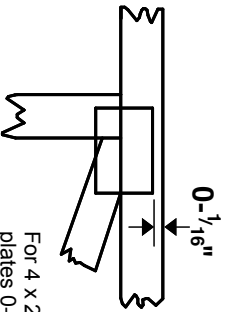
818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

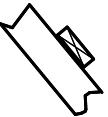
* Plate location details available in **MITrak 20/20 software** or upon request.

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



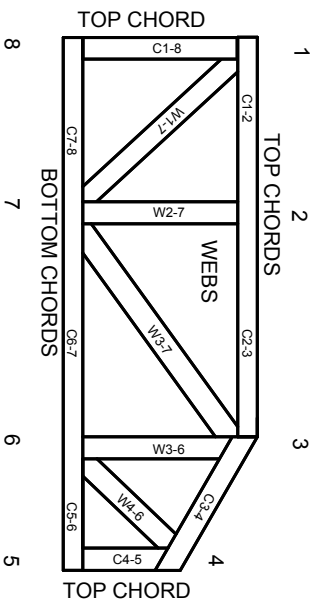
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: 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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MITteK Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

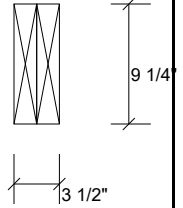
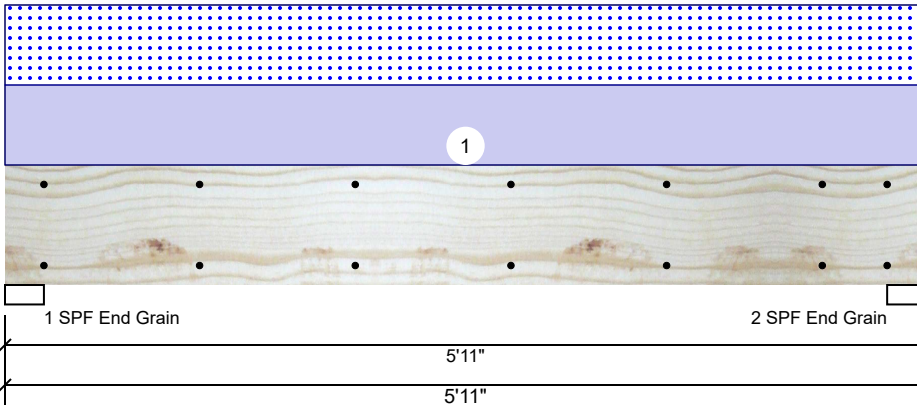
General Safety Notes

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.

BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1764	1742	0	0
2	0	1764	1742	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	38%	1764 / 1742	3506	L	D+S
2 - SPF End Grain	3.000"	38%	1764 / 1742	3506	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4550 ft-lb	2'11 1/2"	14423 ft-lb	0.315 (32%)	D+S	L
Unbraced	4550 ft-lb	2'11 1/2"	11027 ft-lb	0.413 (41%)	D+S	L
Shear	2370 lb	11 1/2"	7943 lb	0.298 (30%)	D+S	L
LL Defl inch	0.035 (L/1894)	2'11 1/2"	0.139 (L/480)	0.250 (25%)	S	L
TL Defl inch	0.071 (L/941)	2'11 1/2"	0.185 (L/360)	0.380 (38%)	D+S	L

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	589 PLF	0 PLF	589 PLF	0 PLF	0 PLF	A02
	Self Weight				7 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/27/2023

Manufacturer Info

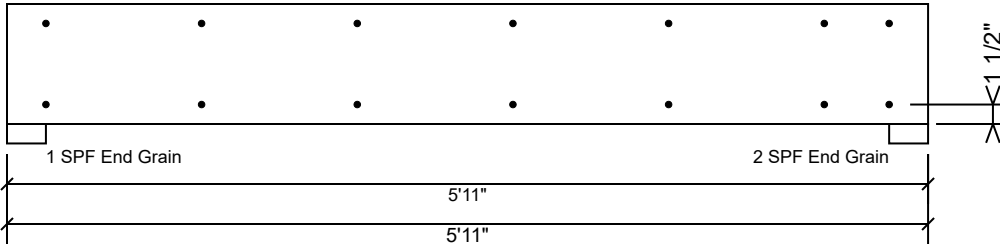
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BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

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chemicals

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6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/27/2023

Manufacturer Info

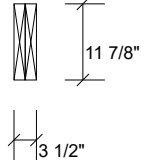
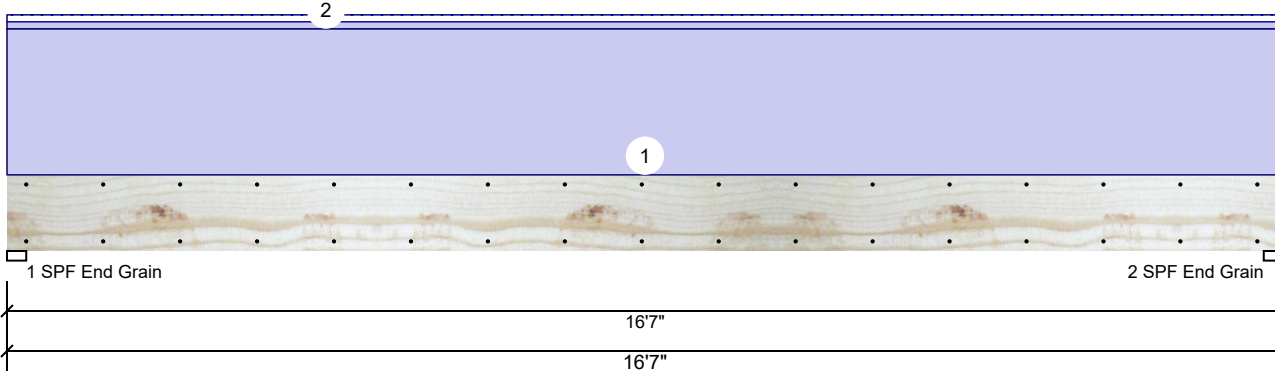
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GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1901	83	0	0
2	0	1901	83	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	22%	1901 / 83	1984	L	D+S
2 - SPF End Grain	3.000"	22%	1901 / 83	1984	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7528 ft-lb	8'3 1/2"	17919 ft-lb	0.420 (42%)	D	Uniform
Unbraced	7856 ft-lb	8'3 1/2"	7862 ft-lb	0.999 (100%)	D+S	L
Shear	1631 lb	15'4 7/8"	7980 lb	0.204 (20%)	D	Uniform
LL Defl inch	0.017 (L/11572)	8'3 9/16"	0.405 (L/480)	0.040 (4%)	S	L
TL Defl inch	0.402 (L/484)	8'3 9/16"	0.540 (L/360)	0.740 (74%)	D+S	L

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 12'4 1/2" o.c.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	210 PLF	0 PLF	0 PLF	0 PLF	0 PLF	C1-GE
2	Tie-In	0-0-0 to 16-7-0	0-6-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	RAKE OH
	Self Weight				9 PLF					

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/27/2023

Manufacturer Info

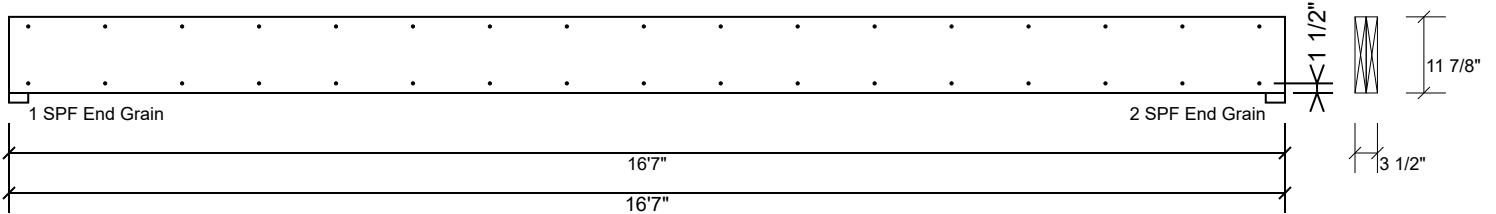
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GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/27/2023

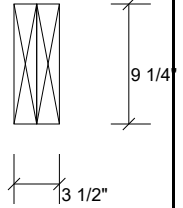
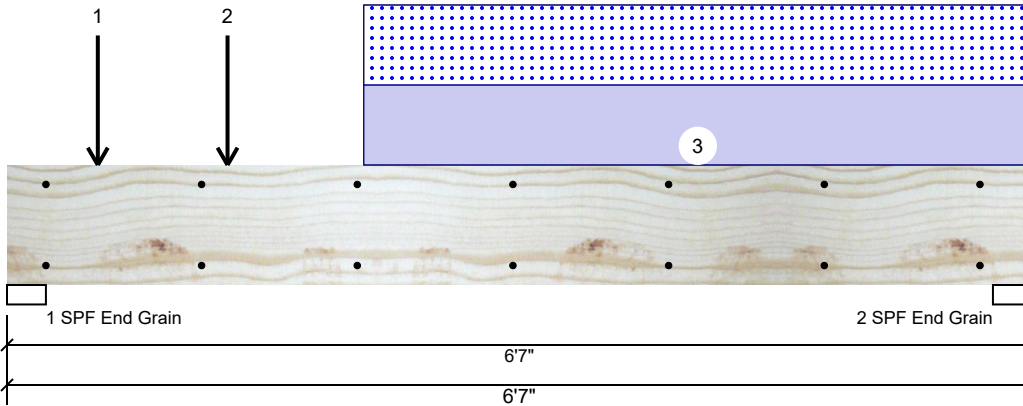
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BM4 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1806	1783	0	0
2	0	1366	1342	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	39%	1806 / 1783	3589	L	D+S
2 - SPF End Grain	3.000"	30%	1366 / 1342	2708	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4163 ft-lb	3'1 3/4"	14423 ft-lb	0.289 (29%)	D+S	L
Unbraced	4163 ft-lb	3'1 3/4"	10370 ft-lb	0.401 (40%)	D+S	L
Shear	2930 lb	11 1/2"	7943 lb	0.369 (37%)	D+S	L
LL Defl inch	0.039 (L/1911)	3'2 11/16"	0.155 (L/480)	0.250 (25%)	S	L
TL Defl inch	0.079 (L/948)	3'2 11/16"	0.207 (L/360)	0.380 (38%)	D+S	L

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Point	0-7-0		Top	670 lb	0 lb	670 lb	0 lb	0 lb	A05
2	Point	1-5-0		Top	781 lb	0 lb	781 lb	0 lb	0 lb	A06
3	Part. Uniform	2-3-8 to 6-7-0		Top	390 PLF	0 PLF	390 PLF	0 PLF	0 PLF	A07
	Self Weight				7 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/27/2023

Manufacturer Info

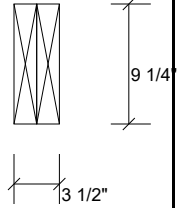
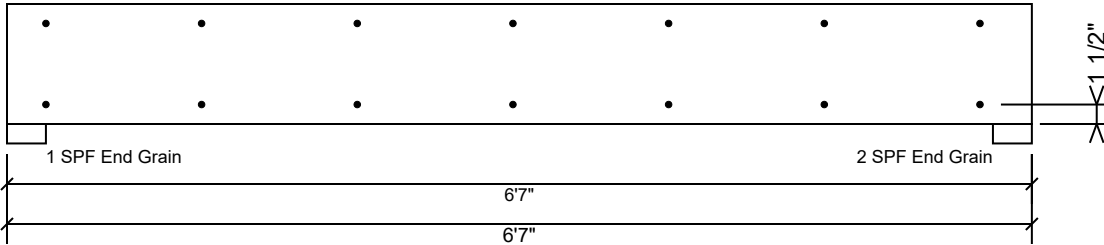
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BM4 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/27/2023

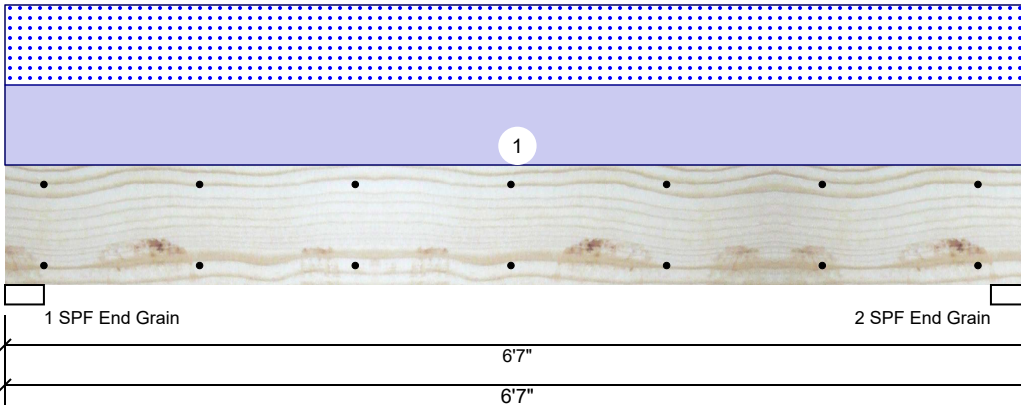
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BM2 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1495	1471	0	0
2	0	1495	1471	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	32%	1495 / 1471	2966	L	D+S
2 - SPF End Grain	3.000"	32%	1495 / 1471	2966	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4342 ft-lb	3'3 1/2"	14423 ft-lb	0.301 (30%)	D+S	L
Unbraced	4342 ft-lb	3'3 1/2"	10370 ft-lb	0.419 (42%)	D+S	L
Shear	2103 lb	5'7 1/2"	7943 lb	0.265 (26%)	D+S	L
LL Defl inch	0.040 (L/1861)	3'3 1/2"	0.155 (L/480)	0.260 (26%)	S	L
TL Defl inch	0.081 (L/923)	3'3 1/2"	0.207 (L/360)	0.390 (39%)	D+S	L

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	447 PLF	0 PLF	447 PLF	0 PLF	0 PLF	A02
	Self Weight				7 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/27/2023

Manufacturer Info

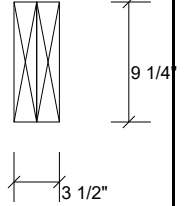
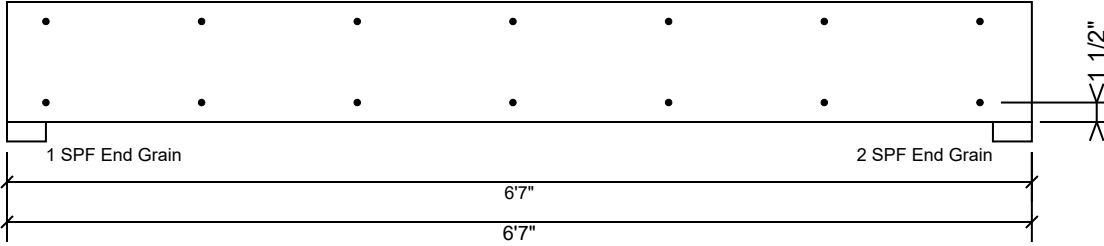
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us
ICC-ES: ESR-3633

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS



BM2 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/27/2023

Manufacturer Info

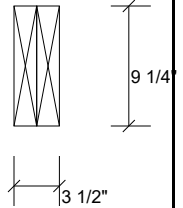
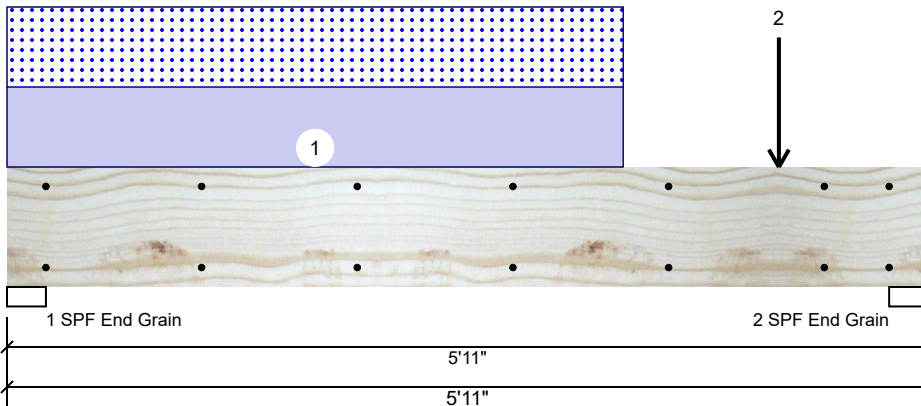
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BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1653	1632	0	0
2	0	1920	1899	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	36%	1653 / 1632	3286	L	D+S
2 - SPF End Grain	3.000"	42%	1920 / 1899	3818	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4395 ft-lb	3' 7/16"	14423 ft-lb	0.305 (30%)	D+S	L
Unbraced	4395 ft-lb	3' 7/16"	11027 ft-lb	0.399 (40%)	D+S	L
Shear	3811 lb	4'11 1/2"	7943 lb	0.480 (48%)	D+S	L
LL Defl inch	0.034 (L/1933)	3' 1/16"	0.139 (L/480)	0.250 (25%)	S	L
TL Defl inch	0.069 (L/961)	3' 1/16"	0.185 (L/360)	0.370 (37%)	D+S	L

Design Notes

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- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 3-11-8		Top	537 PLF	0 PLF	537 PLF	0 PLF	0 PLF	A03
2	Point	4-11-8		Top	1405 lb	0 lb	1405 lb	0 lb	0 lb	A04
	Self Weight				7 PLF					

Notes

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Lumber

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2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

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4. Design assumes top edge is laterally restrained
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6. For flat roofs provide proper drainage to prevent ponding

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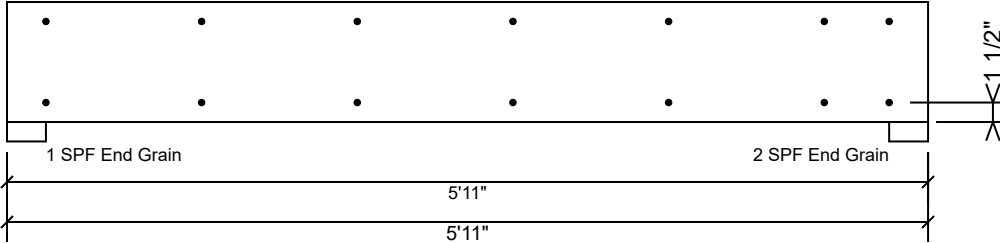
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This design is valid until 11/27/2023

BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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