

Hatch Legend	
[Red Hatch]	2nd Floor Walls
[Blue Hatch]	Box Storage
[Orange Hatch]	Flush Beams
[Yellow Hatch]	Drop Beam

All Walls Shown Are Considered Load Bearing

Roof Area = 2113.53 sq.ft.
Ridge Line = 69.81 ft.
Hip Line = 0 ft.
Horiz. OH = 131.93 ft.
Raked OH = 192.12 ft.
Decking = 73 sheets

- Dimension Notes**
1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
 2. All interior wall dimensions are to face of frame wall unless noted otherwise
 3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Connector Information				Nail Information		
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
[Blue]	HUS26	USP	14	NA	16d/3-1/2"	16d/3-1/2"
[Green]	THD26-2	USP	1	NA	16d/3-1/2"	10d/3"

Products				
PlotID	Length	Product	Plies	Net Qty
BM1	22' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3
BM2	13' 0"	1-3/4"x 16" LVL Kerto-S	2	2
BM3	13' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4
GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2

1 Truss Placement Plan
Scale: 1/4"=1'

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

LOAD CHART FOR JACK STUDS

MEMBER	SPACING	LOAD	MEMBER	SPACING	LOAD
1200	1	2950	3400	1	3400
1300	2	5100	3500	2	6800
1400	3	7650	3600	3	10200
1500	4	10200	3700	4	13600
1600	5	12750	3800	5	17000
1700	6	15300			

BUILDER	Wellco Contractors, Inc.	CITY / CO.	Spring Lake / Harnett
JOB NAME	Lot 134 Hidden Lakes	ADDRESS	46 Sugarberry Place
PLAN	Plan 10	MODEL	Roof
SEAL DATE	Seal Date	DATE REV.	/ /
QUOTE #	Quote #	DRAWN BY	David Landry
JOB #	J1122-5607	SALES REP.	Lenny Norris

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online at sbcindustry.com.

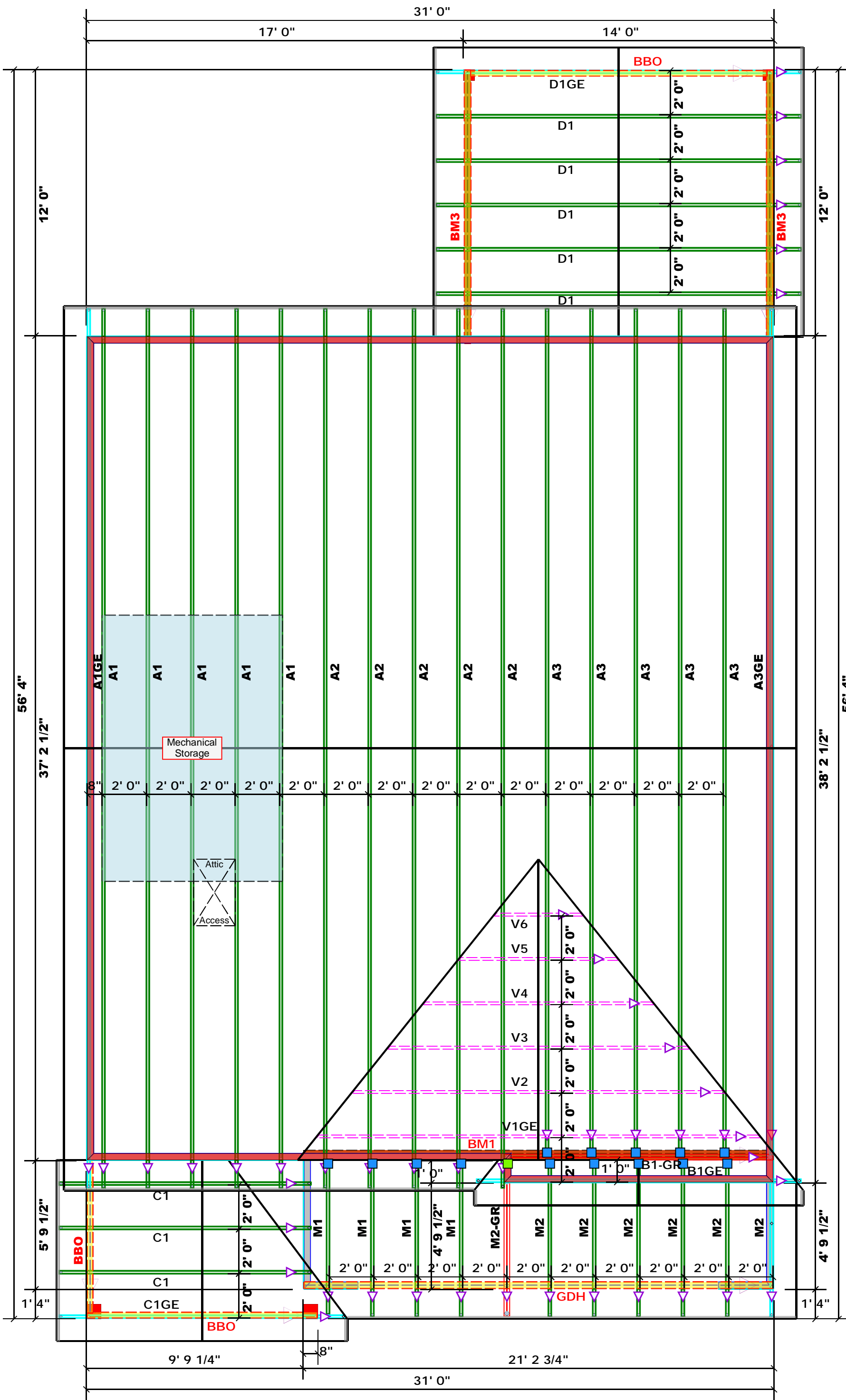
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature: **David Landry**

comTECH

ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444



Hatch Legend	
[Red Hatch]	2nd Floor Walls
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All Walls Shown Are Considered Load Bearing

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1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
 2. All interior wall dimensions are to face of frame wall unless noted otherwise
 3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Connector Information				Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header / Truss
[Blue]	HUS26	USP	14	NA	16d/3-1/2" / 16d/3-1/2"
[Green]	THD26-2	USP	1	NA	16d/3-1/2" / 10d/3"

Products				
PlotID	Length	Product	Plies	Net Qty
BM1	22' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3
BM2	13' 0"	1-3/4"x 16" LVL Kerto-S	2	2
BM3	13' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4
GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2

1 Truss Placement Plan
Scale: 1/4"=1'

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

LOAD CHART FOR JACK STUDS

MEMBER	SPACING	LOADS	REMARKS
1200	1	2950	3400
3400	2	5100	6800
5100	3	7650	10200
6800	4	10200	13600
8500	5	12750	17000
10200	6	15300	

BUILDER	Wellco Contractors, Inc.	CITY / CO.	Spring Lake / Harnett
JOB NAME	Lot 134 Hidden Lakes	ADDRESS	46 Sugarberry Place
PLAN	Plan 10	MODEL	Roof
SEAL DATE	Seal Date	DATE REV.	/ /
QUOTE #	Quote #	DRAWN BY	David Landry
JOB #	J1122-5607	SALES REP.	Lenny Norris

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com.

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature: **David Landry**

comTECH
ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444



RE: J1122-5607
Lot 134 Hidden Lakes

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: J1122-5607
Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 20 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I54207089	A1	9/14/2022
2	I54207090	A1GE	9/14/2022
3	I54207091	A2	9/14/2022
4	I54207092	A3	9/14/2022
5	I54207093	A3GE	9/14/2022
6	I54207094	B1-GR	9/14/2022
7	I54207095	B1GE	9/14/2022
8	I54207096	C1	9/14/2022
9	I54207097	C1GE	9/14/2022
10	I54207098	D1	9/14/2022
11	I54207099	D1GE	9/14/2022
12	I54207100	M1	9/14/2022
13	I54207101	M2	9/14/2022
14	I54207102	M2-GR	9/14/2022
15	I54207103	V1GE	9/14/2022
16	I54207104	V2	9/14/2022
17	I54207105	V3	9/14/2022
18	I54207106	V4	9/14/2022
19	I54207107	V5	9/14/2022
20	I54207108	V6	9/14/2022

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

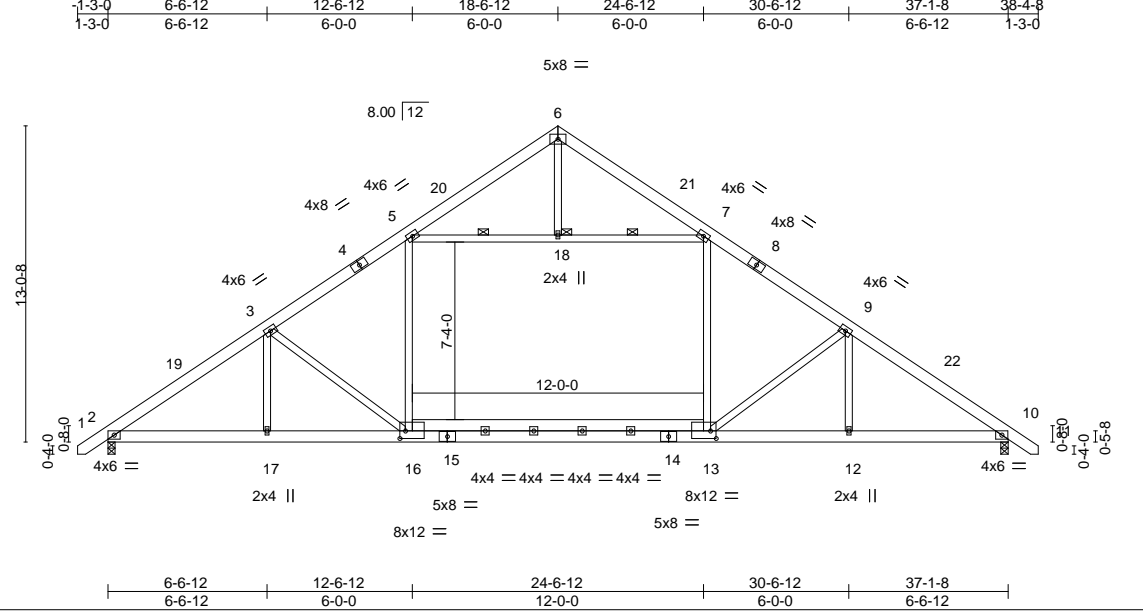
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



September 14, 2022

Job J1122-5607	Truss A1	Truss Type COMMON	Qty 5	Ply 1	Lot 134 Hidden Lakes	154207089
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Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:31 2022 Page 1
 ID:UOEAEoAAmG2AuoIN2O4MtayeM4r-hUdeWO7AE0A1wU2zCgaV0y78wVnZQ3qG33ONsVydhbc



Scale = 1:89.4

Plate Offsets (X,Y)--	[13:0-2-12,0-3-12], [16:0-2-12,0-3-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	Vert(LL)	-0.30 16-17	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(CT)	-0.35 16-17	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.50	Horz(CT)	0.07 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.26 16-17	>999	240		
	Code IRC2015/TPI2014						Weight: 307 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-18, 7-18
	JOINTS 1 Brace at Jt(s): 18

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=314(LC 11)
 Max Uplift 2=95(LC 12), 10=95(LC 13)
 Max Grav 2=1716(LC 19), 10=1716(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2537/415, 3-5=-2247/442, 5-6=-517/204, 6-7=-517/204, 7-9=-2250/441, 9-10=-2540/416
 BOT CHORD 2-17=-205/2215, 16-17=-205/2215, 13-16=-84/1872, 12-13=-213/1982, 10-12=-213/1982
 WEBS 5-16=0/727, 3-16=-541/231, 7-13=0/729, 9-13=-541/238, 5-18=-1447/350, 7-18=-1447/350

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=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 18-6-12, Exterior(2) 18-6-12 to 22-11-9, Interior(1) 22-11-9 to 38-2-9 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 BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2 and 95 lb uplift at joint 10.



September 14, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIP/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road
Edenton, NC 27932

Job J1122-5607	Truss A1GE	Truss Type GABLE	Qty 1	Ply 1	Lot 134 Hidden Lakes	I54207090
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Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:33 2022 Page 1
 ID:UOEEAoaAmG2AuoIN2O4MtayeM4r-dtIPx48RmdRI9oBMK5dz6NCXLJhvu1WZWNlUwNydhba
 1-3-0 18-6-12 37-1-8 38-4-8
 1-3-0 18-6-12 18-6-12 1-3-0
 5x8 = 8x8 = 8x8 =
 Scale = 1:83.2

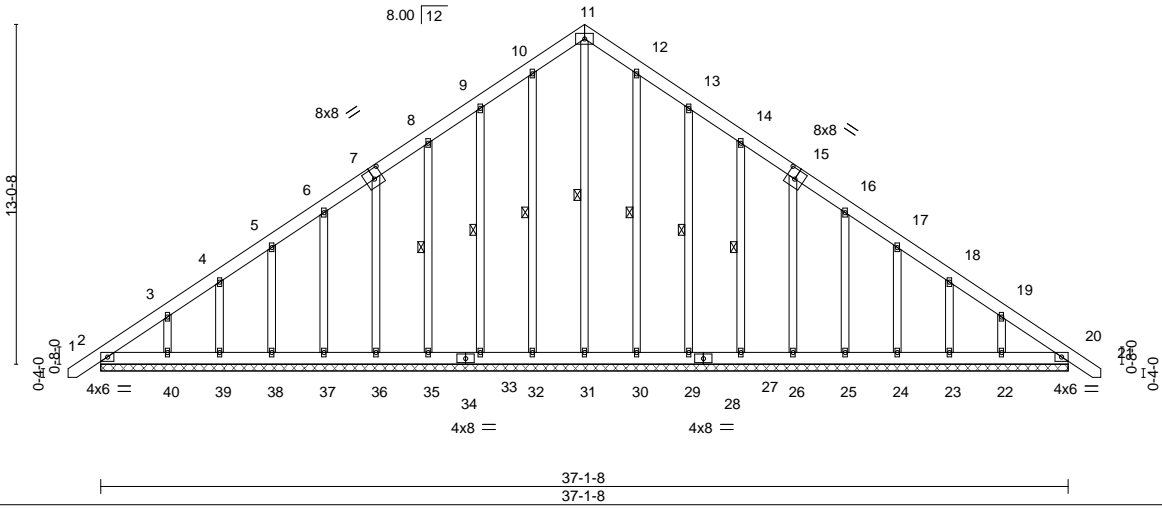


Plate Offsets (X,Y)-- [7:0-4-0,0-4-8], [15:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	-0.00	20	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	0.00	20	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.01	20	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 363 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 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.
 WEBS 1 Row at midpt 11-31, 10-32, 9-33, 8-35, 12-30, 13-29, 14-27

REACTIONS. All bearings 37-1-8.
 (lb) - Max Horz 2=-393(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 32, 35, 36, 37, 38, 39, 30, 27, 26, 25, 24, 23 except 33=-101(LC 12), 40=-124(LC 12), 29=-105(LC 13), 22=-120(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 32, 33, 35, 36, 37, 38, 39, 40, 30, 29, 27, 26, 25, 24, 23, 22 except 31=260(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-398/296, 3-4=-294/250, 8-9=-194/259, 9-10=-261/309, 10-11=-290/333, 11-12=-290/333, 12-13=-261/294, 19-20=-307/216
 BOT CHORD 2-40=-199/310, 39-40=-199/310, 38-39=-199/310, 37-38=-199/310, 36-37=-199/310, 35-36=-203/312, 33-35=-203/312, 32-33=-203/312, 31-32=-203/312, 30-31=-203/312, 29-30=-203/312, 27-29=-203/312, 26-27=-203/312, 25-26=-199/308, 24-25=-199/308, 23-24=-199/308, 22-23=-199/308, 20-22=-199/308

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=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) 2, 20, 32, 35, 36, 37, 38, 39, 30, 27, 26, 25, 24, 23 except (it=lb) 33=101, 40=124, 29=105, 22=120.



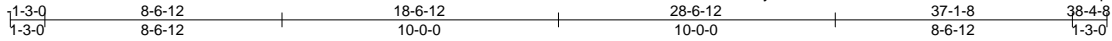
September 14, 2022

Job J1122-5607	Truss A2	Truss Type COMMON	Qty 5	Ply 1	Lot 134 Hidden Lakes	I54207091
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Comtech, Inc, Fayetteville, NC - 28314,

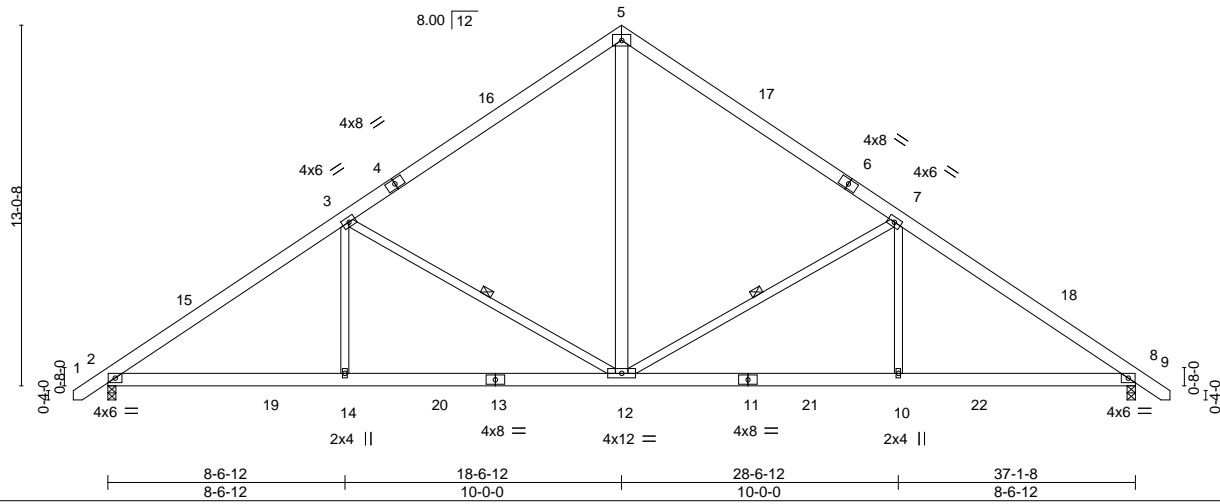
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:35 2022 Page 1

ID:UOEEAoAAmG2AuoIN2O4MtayeM4r-aFs9LmAHfHtO5LIRWfRBoHmN6GdMqJszhMb?GydhbY



5x8 =

Scale = 1:78.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.08 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.59	Vert(CT) -0.17 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 14 >999 240	Weight: 276 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 5-12: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 7-12, 3-12

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
 Max Horz 2=314(LC 10)
 Max Uplift 2=95(LC 12), 8=95(LC 13)
 Max Grav 2=1714(LC 19), 8=1714(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2499/421, 3-5=-1627/424, 5-7=-1627/424, 7-8=-2499/421
 BOT CHORD 2-14=-190/2178, 12-14=-190/2178, 10-12=-200/1943, 8-10=-200/1943
 WEBS 5-12=-174/1127, 7-12=-1011/301, 7-10=0/531, 3-12=-1010/301, 3-14=0/531

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=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 18-6-12, Exterior(2) 18-6-12 to 22-11-9, Interior(1) 22-11-9 to 38-2-9 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 BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



September 14, 2022

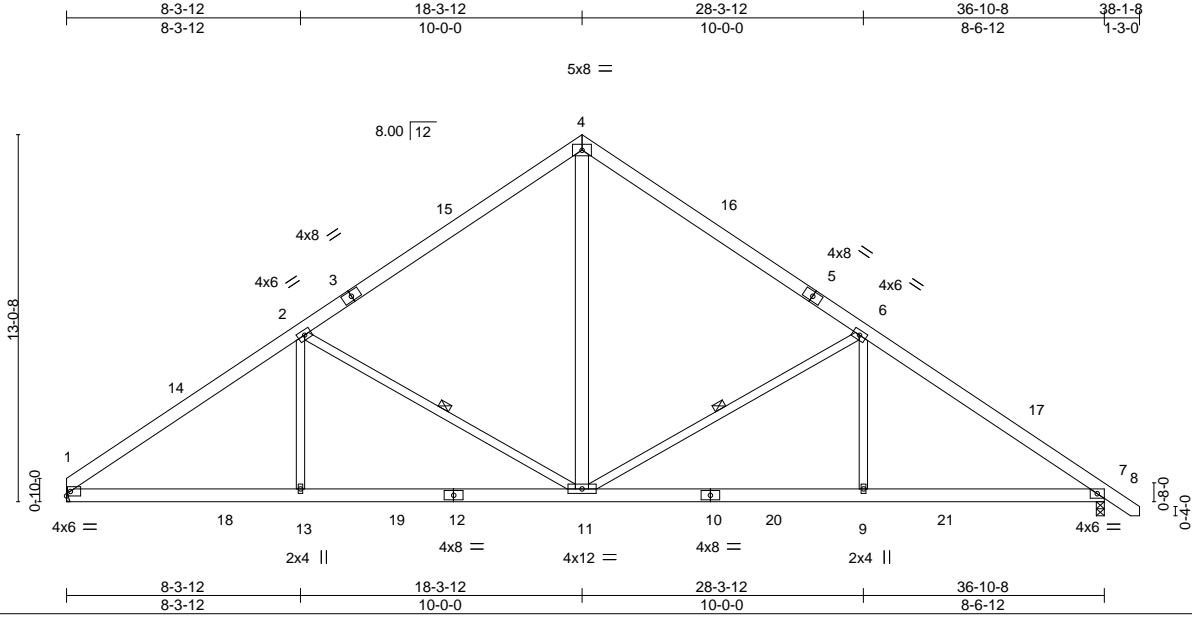
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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818 Soundside Road
 Edenton, NC 27932

Job J1122-5607	Truss A3	Truss Type COMMON	Qty 5	Ply 1	Lot 134 Hidden Lakes	I54207092
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Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:35 2022 Page 1
 ID:UOEEAoAAmG2AuoiN2O4MtayeM4r-aFs9LmAHlFhTO5LJRwFRBoHmN6GeMqJszhMb?GydhbY
 Job Reference (optional)



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 2-0-0 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.41 BC 0.40 WB 0.59 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.08 9-11 >999 360 Vert(CT) -0.17 9-11 >999 240 Horz(CT) 0.06 7 n/a n/a Wind(LL) 0.04 13 >999 240	PLATES MT20 GRIP 244/190 Weight: 272 lb FT = 20%
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LUMBER- TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 *Except* 4-11: 2x6 SP No.1	BRACING- TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 6-11, 2-11
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REACTIONS. (size) 1=Mechanical, 7=0-3-8
 Max Horz 1=310(LC 8)
 Max Uplift 1=76(LC 12), 7=95(LC 13)
 Max Grav 1=1638(LC 19), 7=1708(LC 20)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2448/428, 2-4=-1616/428, 4-6=-1616/423, 6-7=-2488/420
 BOT CHORD 1-13=-202/2147, 11-13=-202/2147, 9-11=-203/1934, 7-9=-203/1934
 WEBS 4-11=-180/1115, 6-11=-1011/301, 6-9=0/531, 2-11=-985/300, 2-13=0/530

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 18-3-12, Exterior(2) 18-3-12 to 22-8-9, Interior(1) 22-8-9 to 37-11-9 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 BCCL = 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) 1, 7.



September 14, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

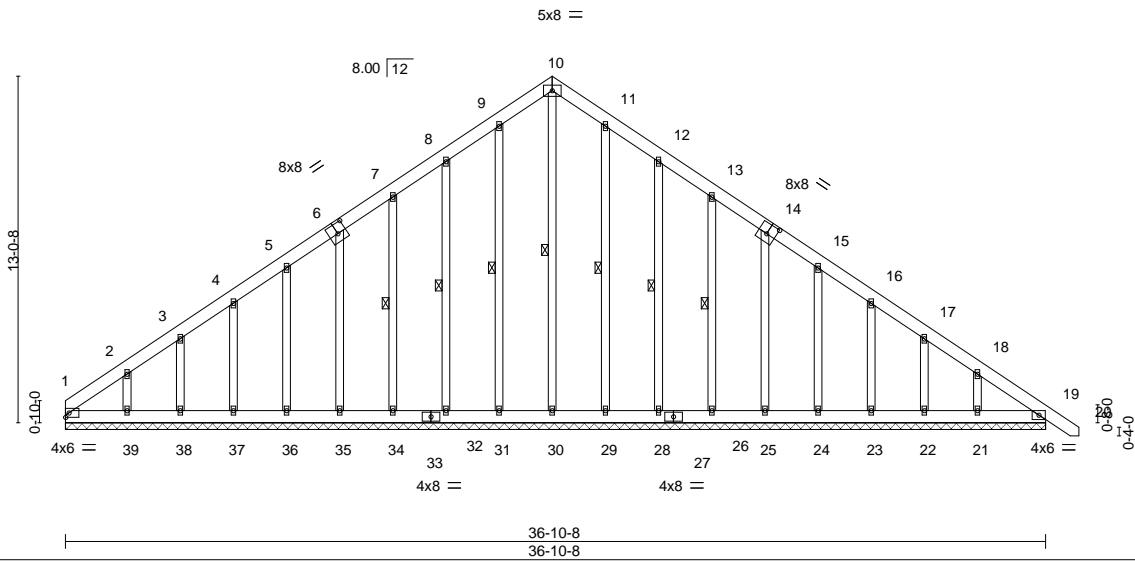
Job J1122-5607	Truss A3GE	Truss Type GABLE	Qty 1	Ply 1	Lot 134 Hidden Lakes	I54207093
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:37 2022 Page 1

ID:UOEEAoAAmG2AuoIN2O4MtayeM4r-We_wmRBxqsxBePV7ZxhvGDNCJw2rqrV8R?ri38ydhbW

36-10-8
18-6-12
18-3-12
18-3-12
38-1-8
1-3-0



Scale = 1:81.6

Plate Offsets (X,Y)--	[6:0-4-0,0-4-8], [14:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	-0.00	19	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	0.00	19	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.01	19	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 358 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 10-30, 9-31, 8-32, 7-34, 11-29, 12-28, 13-26

REACTIONS. All bearings 36-10-8.
 (lb) - Max Horz 1=387(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 31, 34, 35, 36, 37, 38, 29, 26, 25, 24, 23, 22 except 1=131(LC 10), 32=101(LC 12), 39=158(LC 12), 28=105(LC 13), 21=120(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 19, 31, 32, 34, 35, 36, 37, 38, 39, 29, 28, 26, 25, 24, 23, 22, 21 except 30=260(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-417/309, 2-3=-294/249, 7-8=-195/259, 8-9=-262/308, 9-10=-290/333, 10-11=-290/333, 11-12=-262/295, 18-19=-307/216
 BOT CHORD 1-39=-199/310, 38-39=-199/310, 37-38=-199/310, 36-37=-199/310, 35-36=-199/310, 34-35=-203/312, 32-34=-203/312, 31-32=-203/312, 30-31=-203/312, 29-30=-203/312, 28-29=-203/312, 26-28=-203/312, 25-26=-203/312, 24-25=-199/309, 23-24=-199/309, 22-23=-199/309, 21-22=-199/309, 19-21=-199/309

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=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) 1, 19, 31, 34, 35, 36, 37, 38, 29, 26, 25, 24, 23, 22 except (jt=lb) 1=131, 32=101, 39=158, 28=105, 21=120.



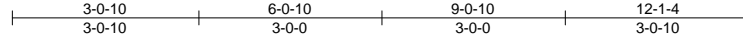
September 14, 2022

Job J1122-5607	Truss B1-GR	Truss Type Common Girder	Qty 1	Ply 2	Lot 134 Hidden Lakes Job Reference (optional)	154207094
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:40 2022 Page 1

ID:UOEEAoAAmG2AuolN2O4MtayeM4r-wDg2PTEq7nJlVsEiE3Fcur?bL7wN19xb7y4MgTydhbT



5x8 ||

Scale = 1:35.5

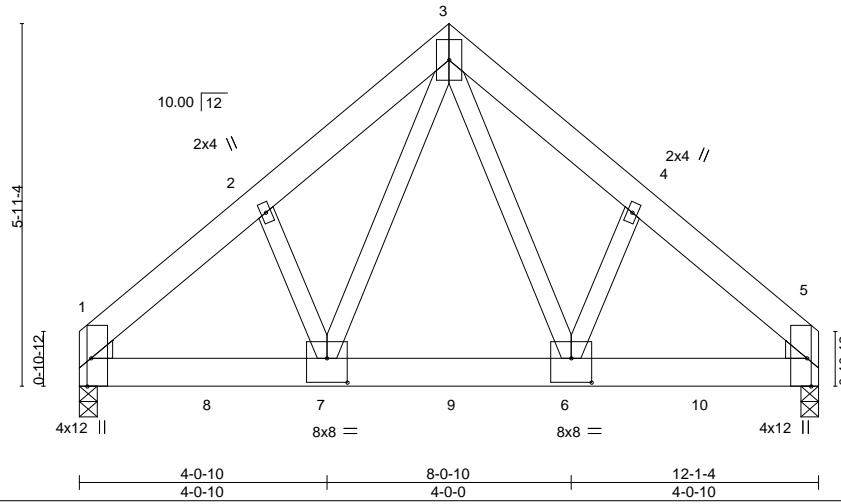


Plate Offsets (X,Y)-- [1:0-5-8,Edge], [5:0-5-8,Edge], [6:0-4-0,0-4-12], [7:0-4-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	Vert(LL)	-0.03	6-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.68	Vert(CT)	-0.06	6-7	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.02	6-7	>999		
	Code IRC2015/TPI2014						Weight: 183 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, 5=0-3-8
 Max Horz 1=130(LC 24)
 Max Uplift 1=236(LC 8), 5=242(LC 9)
 Max Grav 1=4207(LC 2), 5=4312(LC 2)

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

TOP CHORD 1-2=-4996/305, 2-3=-4749/350, 3-4=-4747/350, 4-5=-4991/304
 BOT CHORD 1-7=-221/3498, 6-7=-130/2591, 5-6=-179/3498
 WEBS 3-6=-232/3071, 4-6=-129/499, 3-7=-232/3079, 2-7=-129/505

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 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) except (jt=lb) 1=236, 5=242.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1538 lb down and 96 lb up at 2-2-4, 1538 lb down and 96 lb up at 4-2-4, 1538 lb down and 96 lb up at 6-2-4, and 1538 lb down and 96 lb up at 8-2-4, and 1538 lb down and 96 lb up at 10-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=60, 3-5=60, 1-5=-20

Continued on page 2



September 14, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI 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 J1122-5607	Truss B1-GR	Truss Type Common Girder	Qty 1	Ply 2	Lot 134 Hidden Lakes Job Reference (optional)	I54207094
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:40 2022 Page 2
ID:UOEEAoAAmG2AuolN2O4MtayeM4r-wDg2PTEq7nJIVsEiE3Fcur?bL7wN19xb7y4MgTydhbT

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 6=-1445(B) 7=-1445(B) 8=-1445(B) 9=-1445(B) 10=-1445(B)

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



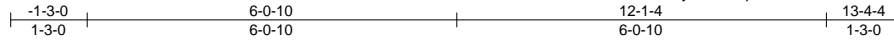
818 Soundside Road
Edenton, NC 27932

Job J1122-5607	Truss B1GE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	154207095
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:38 2022 Page 1

ID:UOEEAoaAmG2AuoIN2O4MtayeM4r_yYl_nCZbA32FZ4J6eC8pQvNWKoIZKelgfbFcbYdhbV



5x5 =

Scale = 1:35.5

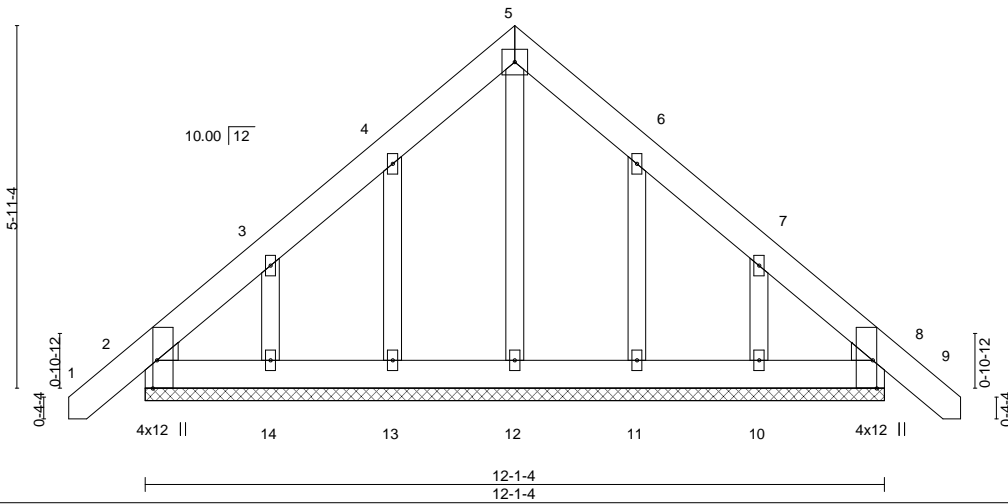


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [8:0-5-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 8 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.00 8 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 97 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 12-1-4.
(lb) - Max Horz 2=179(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 11 except 13=-102(LC 12), 14=-143(LC 12), 10=-141(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

FORCES.

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; 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
- 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 ANS/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 2 = 19%, joint 8 = 19%
- 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, 8, 11 except (jt=lb) 13=102, 14=143, 10=141.



September 14, 2022

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818 Soundside Road
Edenton, NC 27932

Job J1122-5607	Truss C1	Truss Type COMMON	Qty 3	Ply 1	Lot 134 Hidden Lakes	154207096
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Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:41 2022 Page 1
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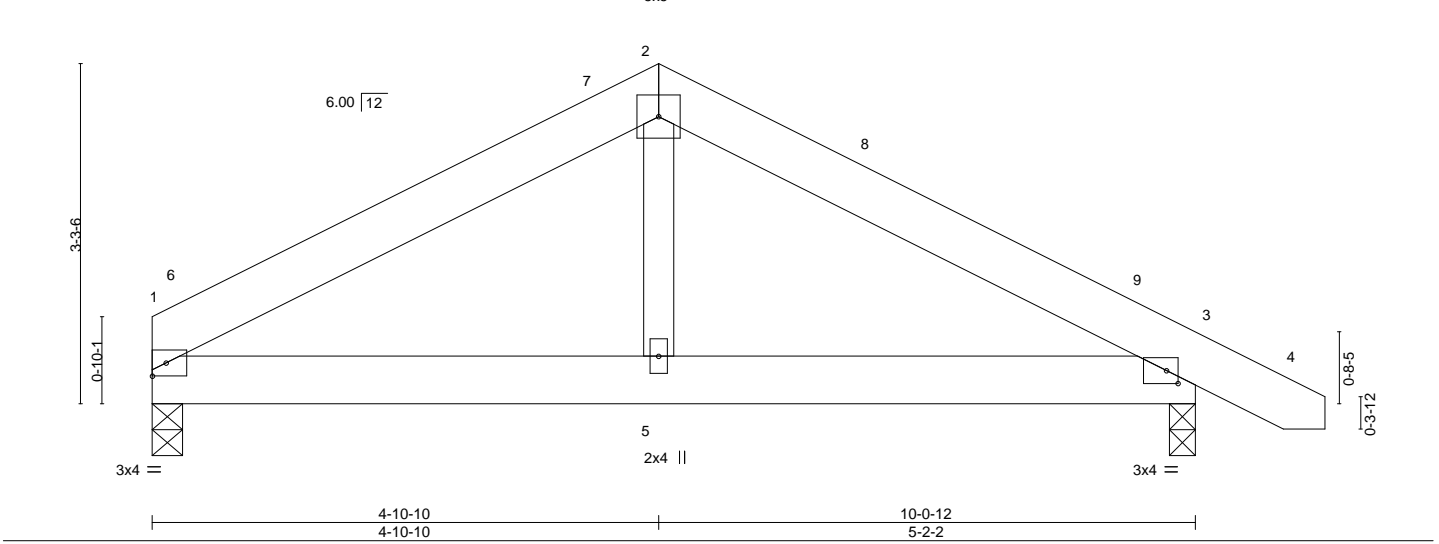


Plate Offsets (X,Y)-- [3:0-1-5,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	-0.00	3-5	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(CT)	-0.01	3-5	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.02	3-5	>999	240		
	Code IRC2015/TPI2014							Weight: 57 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 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=0-3-0
 Max Horz 1=42(LC 8)
 Max Uplift 1=83(LC 9), 3=93(LC 8)
 Max Grav 1=387(LC 1), 3=466(LC 1)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-513/583, 2-3=-511/572
 BOT CHORD 1-5=-405/384, 3-5=-405/384
 WEBS 2-5=-309/232

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=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 4-10-10, Exterior(2) 4-10-10 to 9-3-7, Interior(1) 9-3-7 to 11-1-6 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.



September 14, 2022

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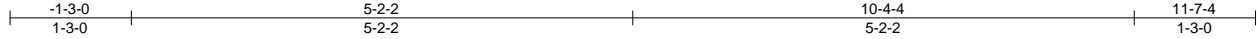
818 Soundside Road
 Edenton, NC 27932

Job J1122-5607	Truss C1GE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207097
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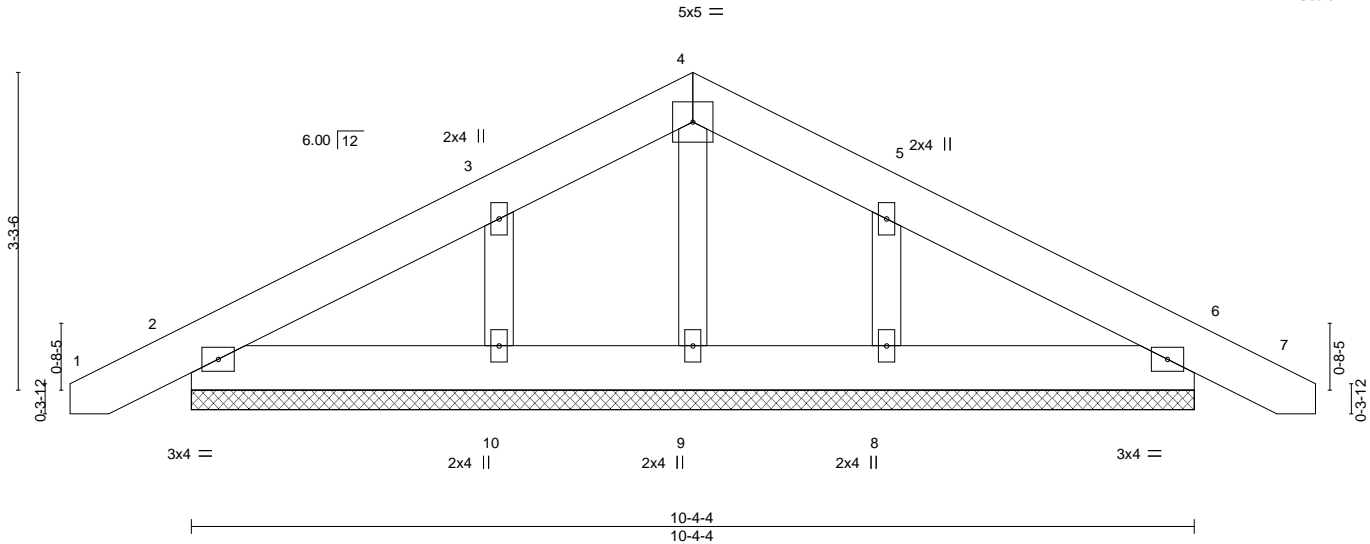
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:41 2022 Page 1

ID:UOEEOAaAmG2AuoIN2O4MtayeM4r-OPDQcpESu5Rc60puommrQ3XuIXPumhbkMcpvCvydhsS



Scale = 1:22.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) 0.00 6 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) 0.00 6 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 66 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 10-4-4.
 (lb) - Max Horz 2=63(LC 17)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=108(LC 12), 8=105(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=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.
 - 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, 6 except (jt=lb) 10=108, 8=105.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.



September 14, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

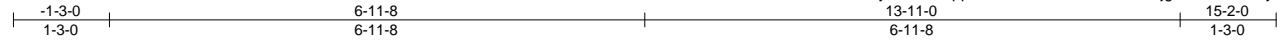
818 Soundside Road
Edenton, NC 27932

Job J1122-5607	Truss D1	Truss Type COMMON	Qty 5	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	154207098
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:42 2022 Page 1

ID:UOEEAoAAmG2AuolN2O4MtayeM4r-scnp9F4fOZTKAN5LUH4zG40ixjgV7xubGZTIMydhbR



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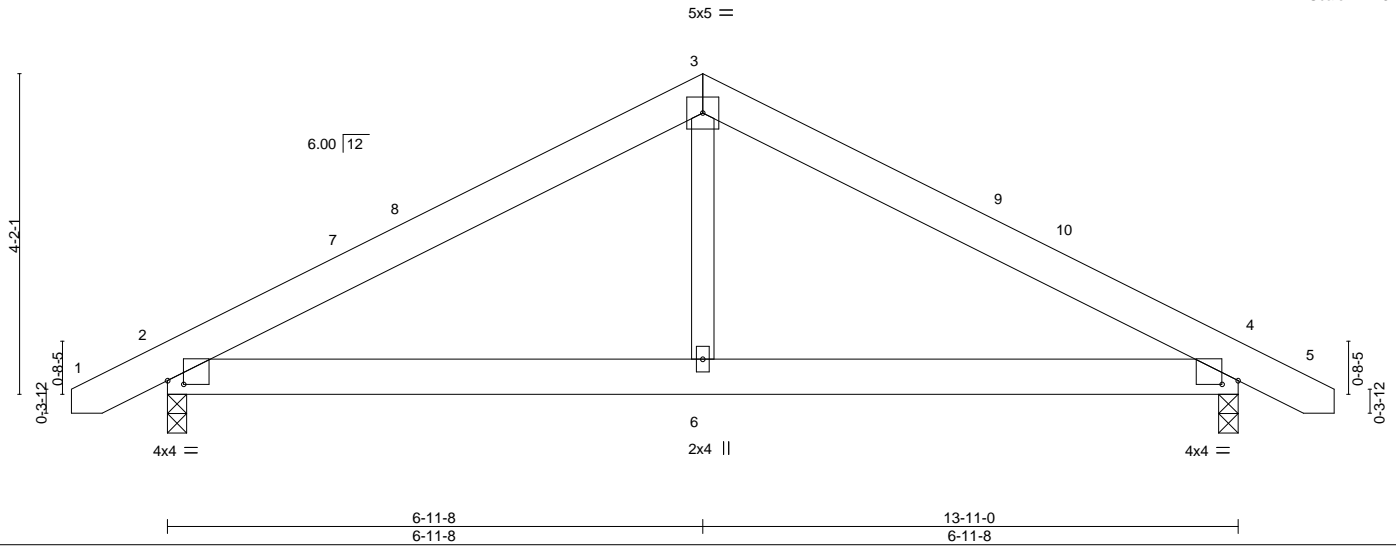


Plate Offsets (X, Y)-- [2:0-2-8,0-0-9], [4:0-2-8,0-0-9]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	2-0-0	TC 0.21	Vert(LL)	0.04	4-6	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	-0.03	2-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S							
	Code IRC2015/TPI2014								
							Weight: 81 lb	FT = 20%	

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 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=0-3-0, 4=0-3-0
Max Horz 2=52(LC 11)
Max Uplift 2=125(LC 9), 4=125(LC 8)
Max Grav 2=617(LC 1), 4=617(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-746/746, 3-4=-746/746
BOT CHORD 2-6=-530/574, 4-6=-530/574
WEBS 3-6=-417/328

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-10 to 3-4-3, Interior(1) 3-4-3 to 6-11-8, Exterior(2) 6-11-8 to 11-4-5, Interior(1) 11-4-5 to 14-11-10 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) except (jt=lb) 2=125, 4=125.



September 14, 2022

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

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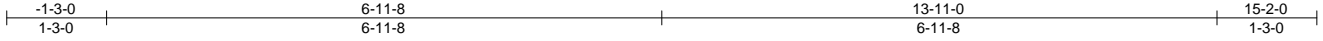
818 Soundside Road
Edenton, NC 27932

Job J1122-5607	Truss D1GE	Truss Type GABLE	Qty 1	Ply 1	Lot 134 Hidden Lakes	I54207099
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:43 2022 Page 1

ID:UOEEAoAAmG2AuoIN2O4MtayeM4r-LoLB1VGiQihKMKyHvBoJWUdCJL2XEa31pwI0HoydhbQ



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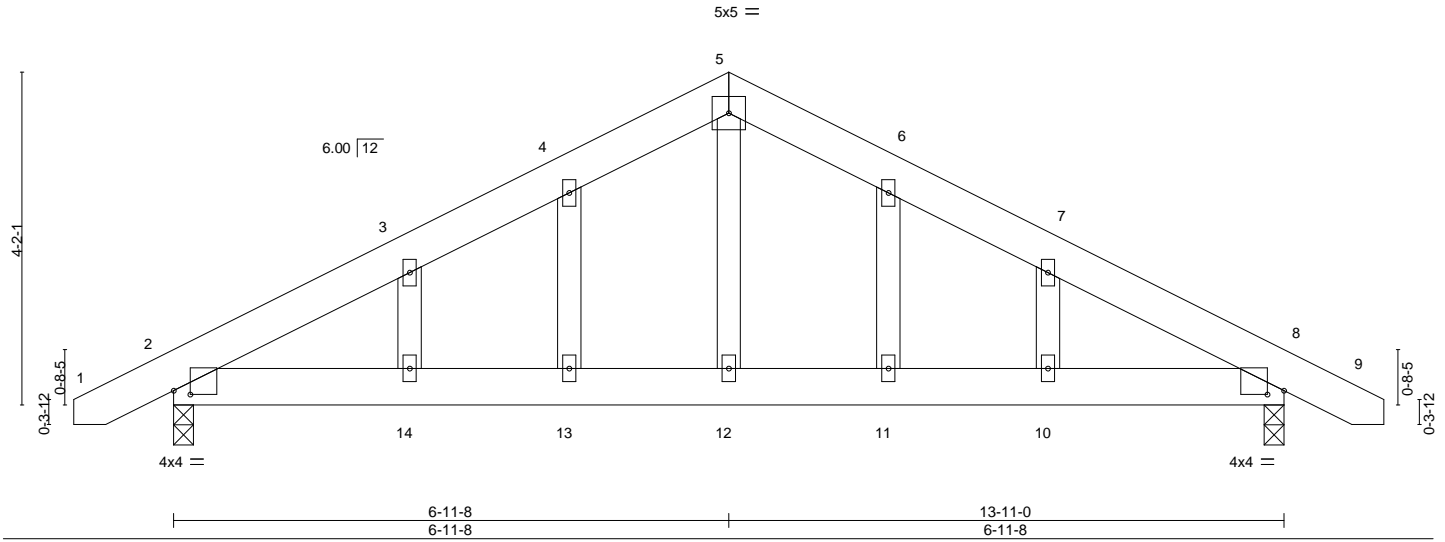


Plate Offsets (X,Y)-- [2:0-2-8,0-0-9], [8:0-2-8,0-0-9]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	-0.02	14	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	-0.04	13-14	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(CT)	0.01	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.03	10	>999		
	Code IRC2015/TPI2014						Weight: 91 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-9-4 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-0, 8=0-3-0
 Max Horz 2=81(LC 12)
 Max Uplift 2=-163(LC 9), 8=-163(LC 8)
 Max Grav 2=617(LC 1), 8=617(LC 1)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-744/783, 3-4=-665/789, 4-5=-642/816, 5-6=-642/816, 6-7=-665/789, 7-8=-744/783
 BOT CHORD 2-14=-580/584, 13-14=-580/584, 12-13=-580/584, 11-12=-580/584, 10-11=-580/584,
 8-10=-580/584
 WEBS 5-12=-452/295

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=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 2-0-0 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) except (jt=lb) 2=163, 8=163.



September 14, 2022

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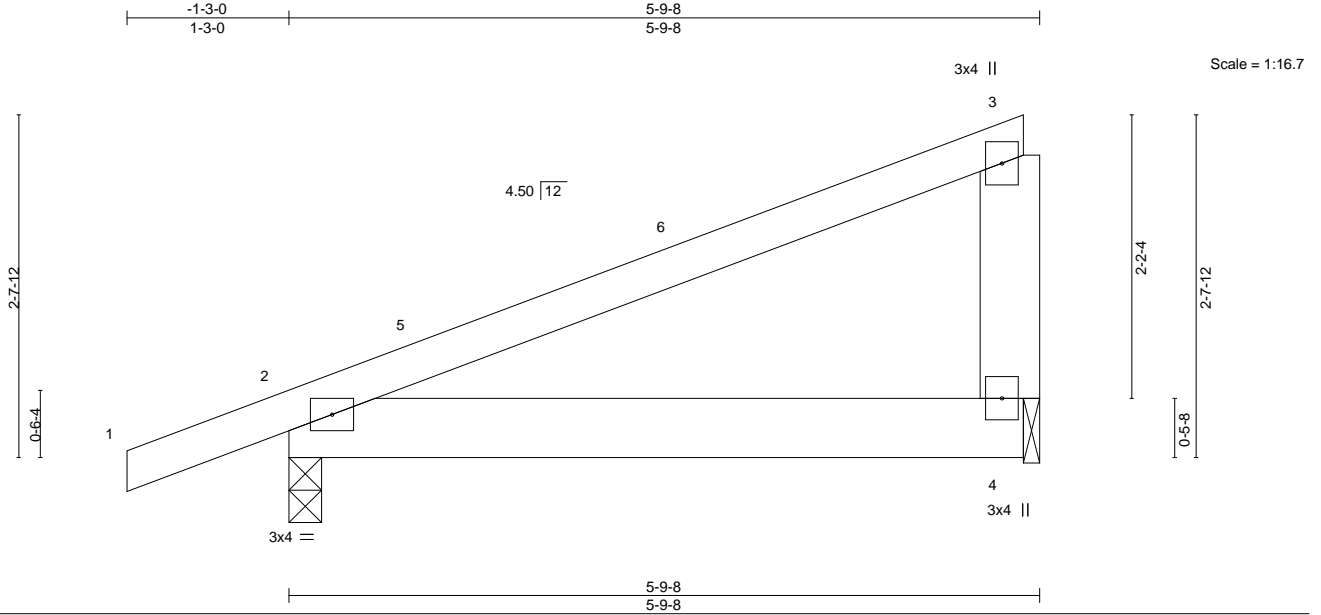
818 Soundside Road
Edenton, NC 27932

Job J1122-5607	Truss M1	Truss Type MONOPITCH	Qty 4	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207100
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:44 2022 Page 1

ID:UOEEAoAAmG2AuoIN2O4MtayeM4r-p_vZErHKB0pBzUXTTvJY2h9KWkQAz2pA2a2ZpEydhbP



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.01	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.02	2-4	>999	240		
BCDL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 29 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-0, 4=0-1-8
 Max Horz 2=84(LC 8)
 Max Uplift 2=58(LC 8), 4=35(LC 12)
 Max Grav 2=310(LC 1), 4=207(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 5-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



September 14, 2022

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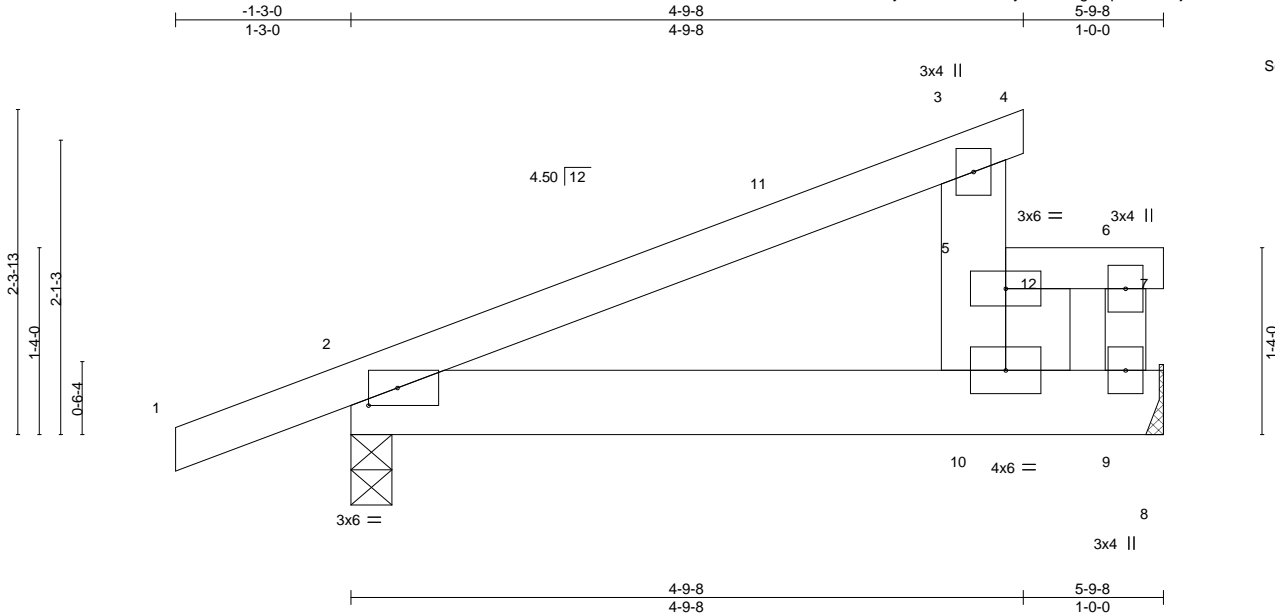
818 Soundside Road
 Edenton, NC 27932

Job J1122-5607	Truss M2	Truss Type HALF HIP SUPPORTED	Qty 6	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207101
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:45 2022 Page 1

ID:UOEEAoAAmG2AuolN2O4MtayeM4r-HATxSAHyxJx2be6g1cqnrvixS8kjiV3KHEn7MhydhbO



Scale = 1:15.5

Plate Offsets (X,Y)--	[2:0-2-8,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL)	-0.00	10	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT)	-0.01	2-10	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	-0.00	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Wind(LL)	0.01	2-10	>999		
							Weight: 31 lb	FT = 20%

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

REACTIONS. (size) 9=Mechanical, 2=0-3-8
 Max Horz 2=104(LC 12)
 Max Uplift 9=61(LC 9), 2=66(LC 8)
 Max Grav 9=745(LC 19), 2=366(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-352/217, 5-10=-269/381, 6-9=-409/371
 BOT CHORD 2-10=-354/292

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -1-3-0 to 3-1-13, Exterior(2) 3-1-13 to 5-9-8 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.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Refer to girder(s) for truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). 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: 1-3=-60, 3-4=-60, 5-12=-40, 6-12=-80, 6-7=-20, 2-8=-20



September 14, 2022

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Lot 134 Hidden Lakes	154207101
J1122-5607	M2	HALF HIP SUPPORTED	6	1		
						Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:45 2022 Page 2
ID:UOEEAoAAmG2AuolN2O4MtayeM4r-HATxSAHyxJx2be6gt1cqnbviXS8kjiV3KHEn7MhydhbO

LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 12=-500
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 5-12=-100, 6-12=-130, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 12=-438
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 5-6=-40, 6-7=-20, 2-8=-40
Concentrated Loads (lb)
Vert: 12=-375
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=124, 2-11=91, 3-11=57, 3-4=153, 5-6=40, 6-7=54, 2-8=-12
Horz: 1-2=-136, 2-11=-103, 3-11=-69, 3-4=-165, 3-5=-65
Concentrated Loads (lb)
Vert: 12=492
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=50, 2-3=91, 3-4=84, 5-6=76, 6-7=-12, 2-8=-12
Horz: 1-2=-62, 2-3=-103, 3-4=-96, 3-5=-65
Concentrated Loads (lb)
Vert: 12=522
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-45, 3-4=17, 5-6=-58, 6-7=-31, 2-8=-20
Horz: 1-2=-18, 2-3=25, 3-4=-37, 3-5=51
Concentrated Loads (lb)
Vert: 12=-524
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-45, 3-4=-38, 5-6=-58, 6-7=-20, 2-8=-20
Horz: 1-2=18, 2-3=25, 3-4=18, 3-5=51
Concentrated Loads (lb)
Vert: 12=-524
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=34, 2-3=19, 3-4=12, 5-6=-11, 6-7=2, 2-8=-12
Horz: 1-2=-46, 2-3=-31, 3-4=-24, 3-5=7
Concentrated Loads (lb)
Vert: 12=42
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-4=28, 5-6=1, 6-7=14, 2-8=-12
Horz: 1-2=-18, 2-3=-25, 3-4=-40, 3-5=-27
Concentrated Loads (lb)
Vert: 12=54
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-4=4, 5-6=-33, 6-7=-6, 2-8=-20
Horz: 1-2=-24, 2-3=-17, 3-4=-24, 3-5=34
Concentrated Loads (lb)
Vert: 12=-423
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-9, 3-4=-2, 5-6=-21, 6-7=6, 2-8=-20
Horz: 1-2=-18, 2-3=-11, 3-4=-18, 3-5=0
Concentrated Loads (lb)
Vert: 12=-292
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-11, 6-7=2, 2-8=-12
Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39
Concentrated Loads (lb)
Vert: 12=54
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=1, 6-7=14, 2-8=-12
Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27
Concentrated Loads (lb)
Vert: 12=54
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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	Lot 134 Hidden Lakes	
J1122-5607	M2	HALF HIP SUPPORTED	6	1		I54207101
					Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:45 2022 Page 3
ID:UOEEAoAAmG2AuolN2O4MtayeM4r-HATxSAHyxJx2be6g1cqnbviXS8kjiV3KHEn7MhydhbO

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-11, 6-7=2, 2-8=-12
Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39
- Concentrated Loads (lb)
Vert: 12=54
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=1, 6-7=14, 2-8=-12
Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27
Concentrated Loads (lb)
Vert: 12=54
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=-1, 3-4=6, 5-6=-33, 6-7=-6, 2-8=-20
Horz: 1-2=-26, 2-3=-19, 3-4=-26, 3-5=-12
Concentrated Loads (lb)
Vert: 12=-292
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-13, 3-4=-6, 5-6=-21, 6-7=6, 2-8=-20
Horz: 1-2=-14, 2-3=-7, 3-4=-14, 3-5=0
Concentrated Loads (lb)
Vert: 12=-292
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 5-6=-120, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 12=-250
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-32, 2-3=-37, 3-4=-32, 5-12=95, 6-12=-125, 6-7=-10, 2-8=-20
Horz: 1-2=-18, 2-3=-13, 3-4=-18, 3-5=26
Concentrated Loads (lb)
Vert: 12=-567
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-42, 3-4=-37, 5-12=-86, 6-12=-116, 6-7=-1, 2-8=-20
Horz: 1-2=-13, 2-3=-8, 3-4=-13, 3-5=0
Concentrated Loads (lb)
Vert: 12=-469
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-36, 3-4=-31, 5-12=-95, 6-12=-125, 6-7=-10, 2-8=-20
Horz: 1-2=-19, 2-3=-14, 3-4=-19, 3-5=-9
Concentrated Loads (lb)
Vert: 12=-469
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-3=-45, 3-4=-40, 5-12=-86, 6-12=-116, 6-7=-1, 2-8=-20
Horz: 1-2=-10, 2-3=-5, 3-4=-10, 3-5=0
Concentrated Loads (lb)
Vert: 12=-469
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-6=-40, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 12=-500
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 5-12=-40, 6-12=-80, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 12=-500
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 5-6=-100, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 12=-438
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 5-12=-100, 6-12=-130, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 12=-438

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

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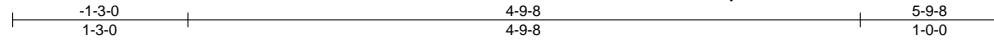
818 Soundside Road
Edenton, NC 27932

Job J1122-5607	Truss M2-GR	Truss Type HALF HIP SUPPORTED	Qty 1	Ply 2	Lot 134 Hidden Lakes Job Reference (optional)	I54207102
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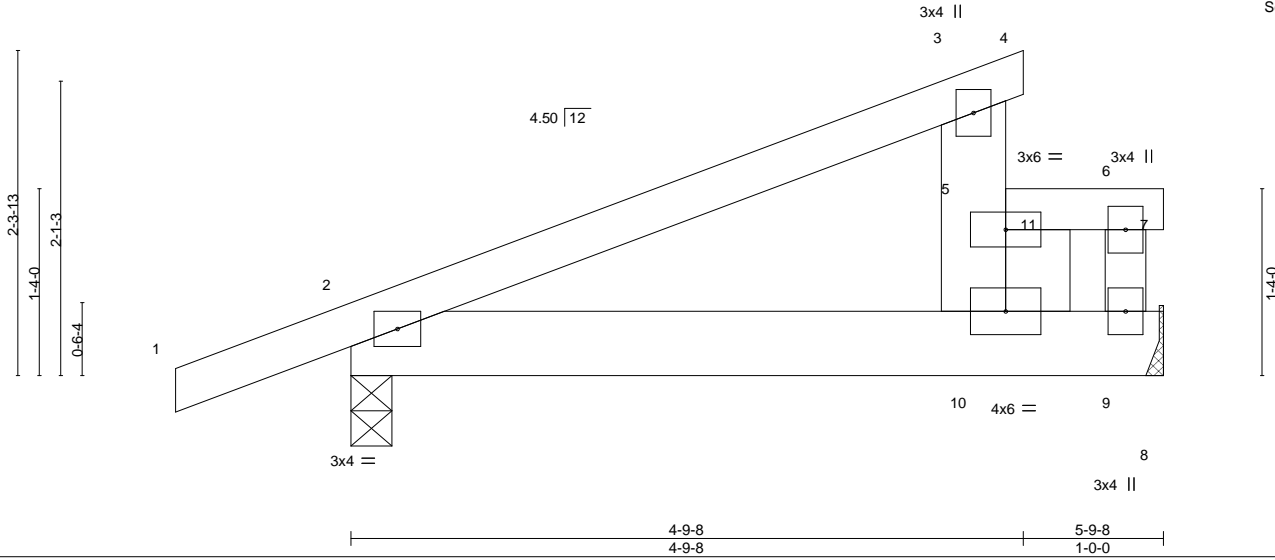
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:46 2022 Page 1

ID:UOEEAoAAmG2AuoIN2O4MtayeM4r-IN1JfWlbid3vDnhsaKM076FkFY6SRyJTVuXgu7ydhbN



Scale = 1:15.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00	10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.01	2-10	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Wind(LL) 0.00	10	>999	240	Weight: 61 lb	FT = 20%

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

REACTIONS. (size) 9=Mechanical, 2=0-3-8
 Max Horz 2=104(LC 8)
 Max Uplift 2=53(LC 4)
 Max Grav 9=862(LC 15), 2=379(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-381/0, 5-10=-313/26, 6-9=-484/0
 BOT CHORD 2-10=-22/308

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 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: 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 Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - Gable 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.
 - 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.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 Continued on page 2
 September 14, 2022



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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 134 Hidden Lakes	I54207102
J1122-5607	M2-GR	HALF HIP SUPPORTED	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:46 2022 Page 2
ID:UOEEAoAAmG2AuoIN2O4MtayeM4r-IN1JfWlbid3vDnhsaKM076FkFY6SRyJTVuXgu7ydhbN

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-11=-160, 6-11=-200, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 11=-500
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 5-11=-220, 6-11=-250, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 11=-438
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 5-6=-160, 6-7=-20, 2-8=-40
Concentrated Loads (lb)
Vert: 11=-375
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=34, 2-3=19, 3-4=12, 5-6=-131, 6-7=2, 2-8=-12
Horz: 1-2=-46, 2-3=-31, 3-4=-24, 3-5=7
Concentrated Loads (lb)
Vert: 11=42
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=13, 3-4=28, 5-6=-119, 6-7=14, 2-8=-12
Horz: 1-2=-18, 2-3=-25, 3-4=40, 3-5=-27
Concentrated Loads (lb)
Vert: 11=54
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-3, 3-4=4, 5-6=-153, 6-7=-6, 2-8=-20
Horz: 1-2=-24, 2-3=-17, 3-4=-24, 3-5=34
Concentrated Loads (lb)
Vert: 11=-423
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-9, 3-4=-2, 5-6=-141, 6-7=6, 2-8=-20
Horz: 1-2=-18, 2-3=-11, 3-4=-18, 3-5=0
Concentrated Loads (lb)
Vert: 11=-292
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-131, 6-7=2, 2-8=-12
Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39
Concentrated Loads (lb)
Vert: 11=54
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=-119, 6-7=14, 2-8=-12
Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27
Concentrated Loads (lb)
Vert: 11=54
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-131, 6-7=2, 2-8=-12
Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39
Concentrated Loads (lb)
Vert: 11=54
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=-119, 6-7=14, 2-8=-12
Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27
Concentrated Loads (lb)
Vert: 11=54
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=-1, 3-4=6, 5-6=-153, 6-7=-6, 2-8=-20
Horz: 1-2=-26, 2-3=-19, 3-4=-26, 3-5=-12
Concentrated Loads (lb)
Vert: 11=-292
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-13, 3-4=-6, 5-6=-141, 6-7=6, 2-8=-20
Horz: 1-2=-14, 2-3=-7, 3-4=-14, 3-5=0
Concentrated Loads (lb)
Vert: 11=-292

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 134 Hidden Lakes	I54207102
J1122-5607	M2-GR	HALF HIP SUPPORTED	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:46 2022 Page 3
ID:UOEEAoAAmG2AuolN2O4MtayeM4r-IN1JfWlbid3vDnhsaKM076FkFY6SRyJTVuXguYdYhbN

LOAD CASE(S) Standard

- 14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 5-6=-240, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 11=-250
- 15) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-32, 2-3=-37, 3-4=-32, 5-11=-215, 6-11=-245, 6-7=-10, 2-8=-20
Horz: 1-2=-18, 2-3=-13, 3-4=-18, 3-5=26
Concentrated Loads (lb)
Vert: 11=-567
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-42, 3-4=-37, 5-11=-206, 6-11=-236, 6-7=-1, 2-8=-20
Horz: 1-2=-13, 2-3=-8, 3-4=-13, 3-5=0
Concentrated Loads (lb)
Vert: 11=-469
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-36, 3-4=-31, 5-11=-215, 6-11=-245, 6-7=-10, 2-8=-20
Horz: 1-2=-19, 2-3=-14, 3-4=-19, 3-5=-9
Concentrated Loads (lb)
Vert: 11=-469
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-3=-45, 3-4=-40, 5-11=-206, 6-11=-236, 6-7=-1, 2-8=-20
Horz: 1-2=-10, 2-3=-5, 3-4=-10, 3-5=0
Concentrated Loads (lb)
Vert: 11=-469
- 19) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-6=-160, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 11=-500
- 20) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 5-11=-160, 6-11=-200, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 11=-500
- 21) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 5-6=-220, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 11=-438
- 22) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 5-11=-220, 6-11=-250, 6-7=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 11=-438

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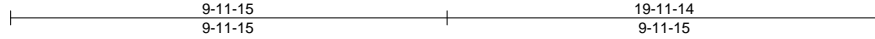
818 Soundside Road
Edenton, NC 27932

Job J1122-5607	Truss V1GE	Truss Type VALLEY	Qty 1	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207103
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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:47 2022 Page 1

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4x4 =

Scale = 1:49.6

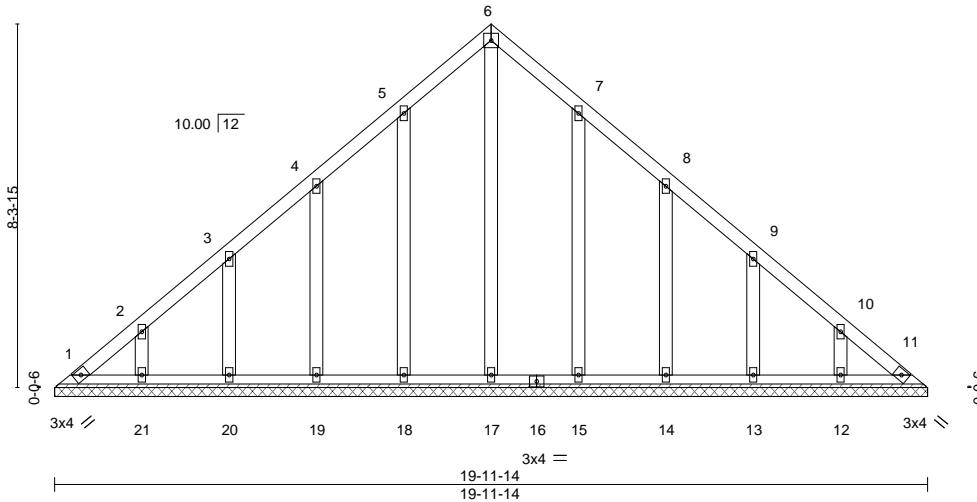


Plate Offsets (X,Y)-- [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT)	0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S							
							Weight: 121 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 19-11-14.
 (lb) - Max Horz 1=240(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 18=110(LC 12), 19=113(LC 12), 20=110(LC 12), 21=110(LC 12), 15=108(LC 13), 14=114(LC 13), 13=110(LC 13), 12=110(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 11, 17, 18, 19, 20, 21, 15, 14, 13, 12

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

TOP CHORD 1-2=-281/192

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=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) 1, 11 except (j=lb) 18=110, 19=113, 20=110, 21=110, 15=108, 14=114, 13=110, 12=110.



September 14, 2022

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

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



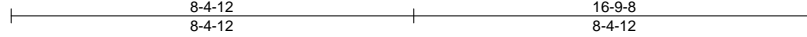
818 Soundside Road
 Edenton, NC 27932

Job J1122-5607	Truss V2	Truss Type VALLEY	Qty 1	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207104
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:48 2022 Page 1

ID:UOEEA0AAmG2Au0IN2O4MtayeM4r-hl944CKrEEKdSSrEikOUDXK3jMm5vr4mzC0ny?ydhbL



4x4 =

Scale = 1:45.2

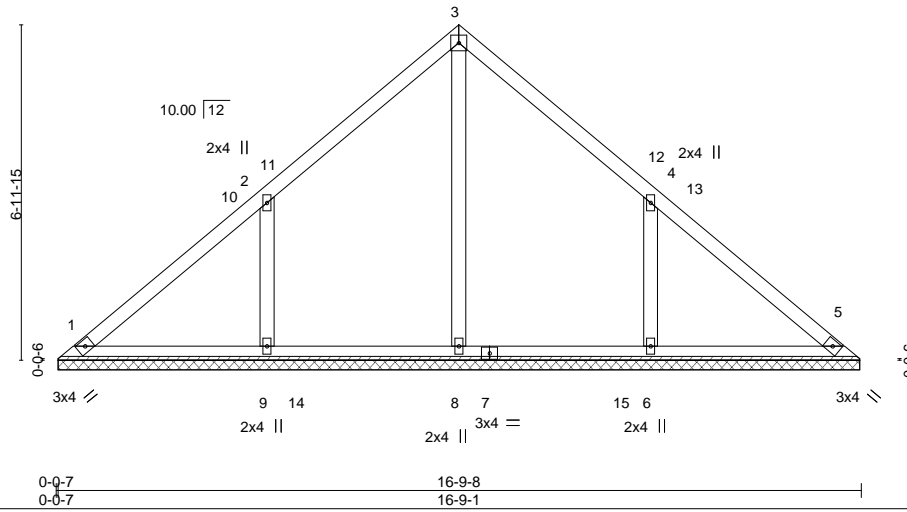


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S							
	Code IRC2015/TPI2014								
							Weight: 75 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 16-8-9.
 (lb) - Max Horz 1=160(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=153(LC 12), 6=153(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=416(LC 22), 9=479(LC 19), 6=479(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-9=-381/266, 4-6=-381/266

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 8-4-12, Exterior(2) 8-4-12 to 12-9-9, Interior(1) 12-9-9 to 16-4-11 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) 1 except (jt=lb) 9=153, 6=153.
- Non Standard bearing condition. Review required.



September 14, 2022

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

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



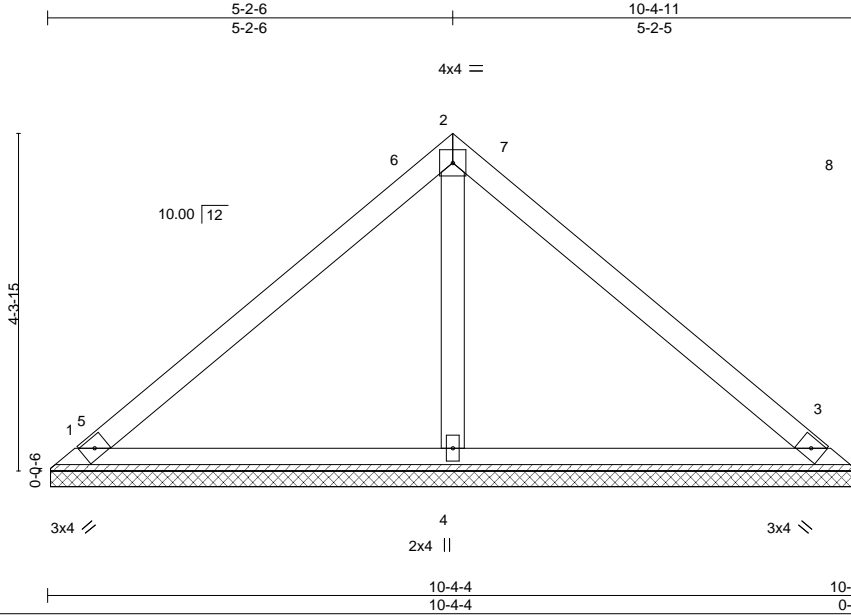
818 Soundside Road
 Edenton, NC 27932

Job J1122-5607	Truss V4	Truss Type VALLEY	Qty 1	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207106
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:50 2022 Page 1

ID:UOEEAoaAAmG2AuolN2O4MtayeM4r-d8GqVuL5msaLiP?dp9QylyPN99SjNIM3QWVu1uydhbJ



Scale = 1:27.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 39 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=10-3-13, 3=10-3-13, 4=10-3-13
 Max Horz 1=96(LC 11)
 Max Uplift 1=22(LC 13), 3=31(LC 13)
 Max Grav 1=205(LC 1), 3=205(LC 1), 4=357(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 Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-2-6, Exterior(2) 5-2-6 to 9-7-2, Interior(1) 9-7-2 to 9-11-14 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.



September 14, 2022

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

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

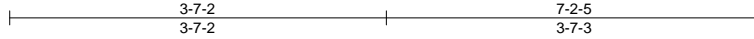


818 Soundside Road
 Edenton, NC 27932

Job J1122-5607	Truss V5	Truss Type VALLEY	Qty 1	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207107
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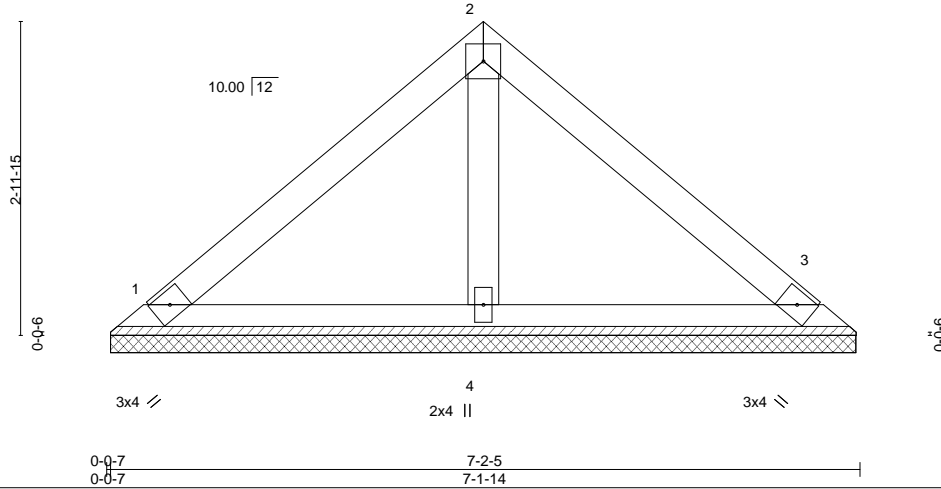
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:51 2022 Page 1
ID:UOEEAoAAmG2AuoIN2O4MtayeM4r-6KqCiEMjX9iCJZZpNtxBqAyZnZpP6CDCfAERZKydhbl



4x4 =

Scale = 1:20.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 26 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=7-1-6, 3=7-1-6, 4=7-1-6
Max Horz 1=64(LC 10)
Max Uplift 1=22(LC 13), 3=28(LC 13)
Max Grav 1=148(LC 1), 3=148(LC 1), 4=215(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 Vasd=103mph; TCCL=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
- 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.
- Non Standard bearing condition. Review required.



September 14, 2022

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

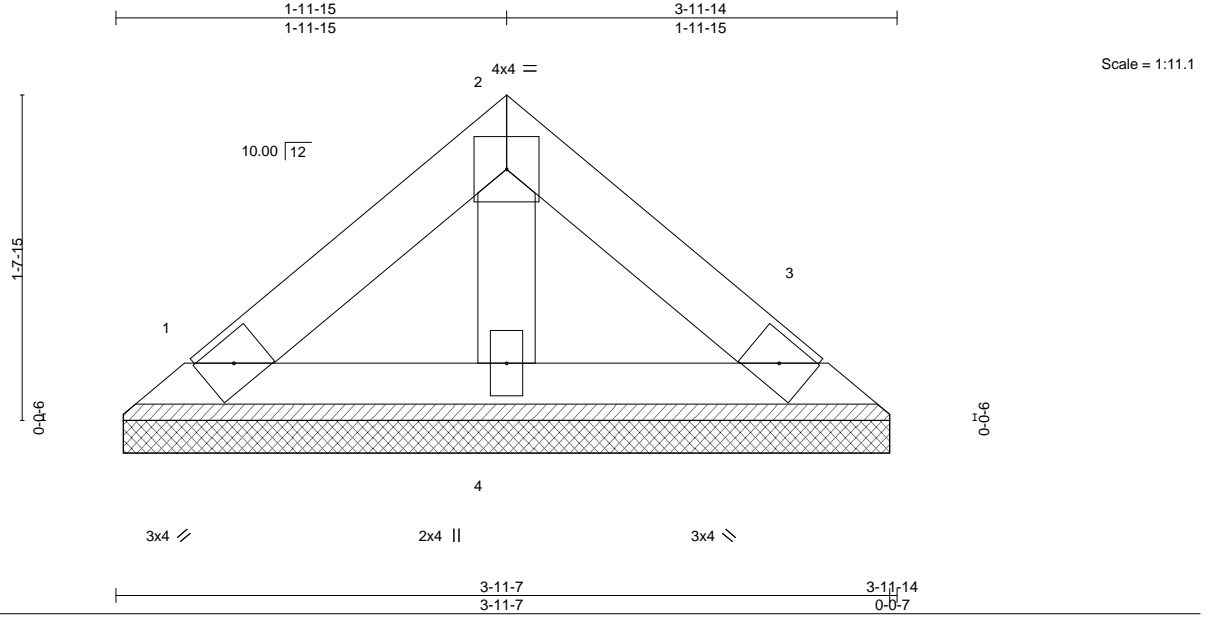


818 Soundside Road
Edenton, NC 27932

Job J1122-5607	Truss V6	Truss Type VALLEY	Qty 1	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207108
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:51 2022 Page 1
ID:UOEEAoAAmG2AuolN2O4MtayeM4r-6KqCiEMjX9iCJZZpNtxBqAyb9Zq6CQCfAERZKydhbl



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) n/a - n/a 999		
BCDL 0.0 *	Lumber DOL 1.15	WB 0.01	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 14 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 3-11-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-11-0, 3=3-11-0, 4=3-11-0
Max Horz 1=32(LC 9)
Max Uplift 1=11(LC 13), 3=14(LC 13)
Max Grav 1=74(LC 1), 3=74(LC 1), 4=107(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 Vasd=103mph; TCCL=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.



September 14, 2022

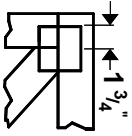
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



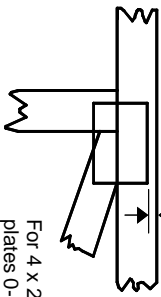
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

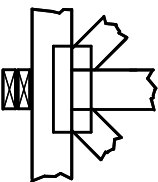
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



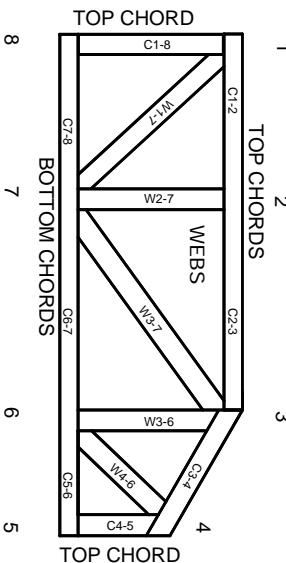
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
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 NUMBER/LETTERS.

PRODUCT CODE APPROVALS

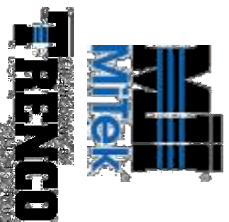
ICC-ES Reports:

ESR-1311, ESR-1352, ESR 1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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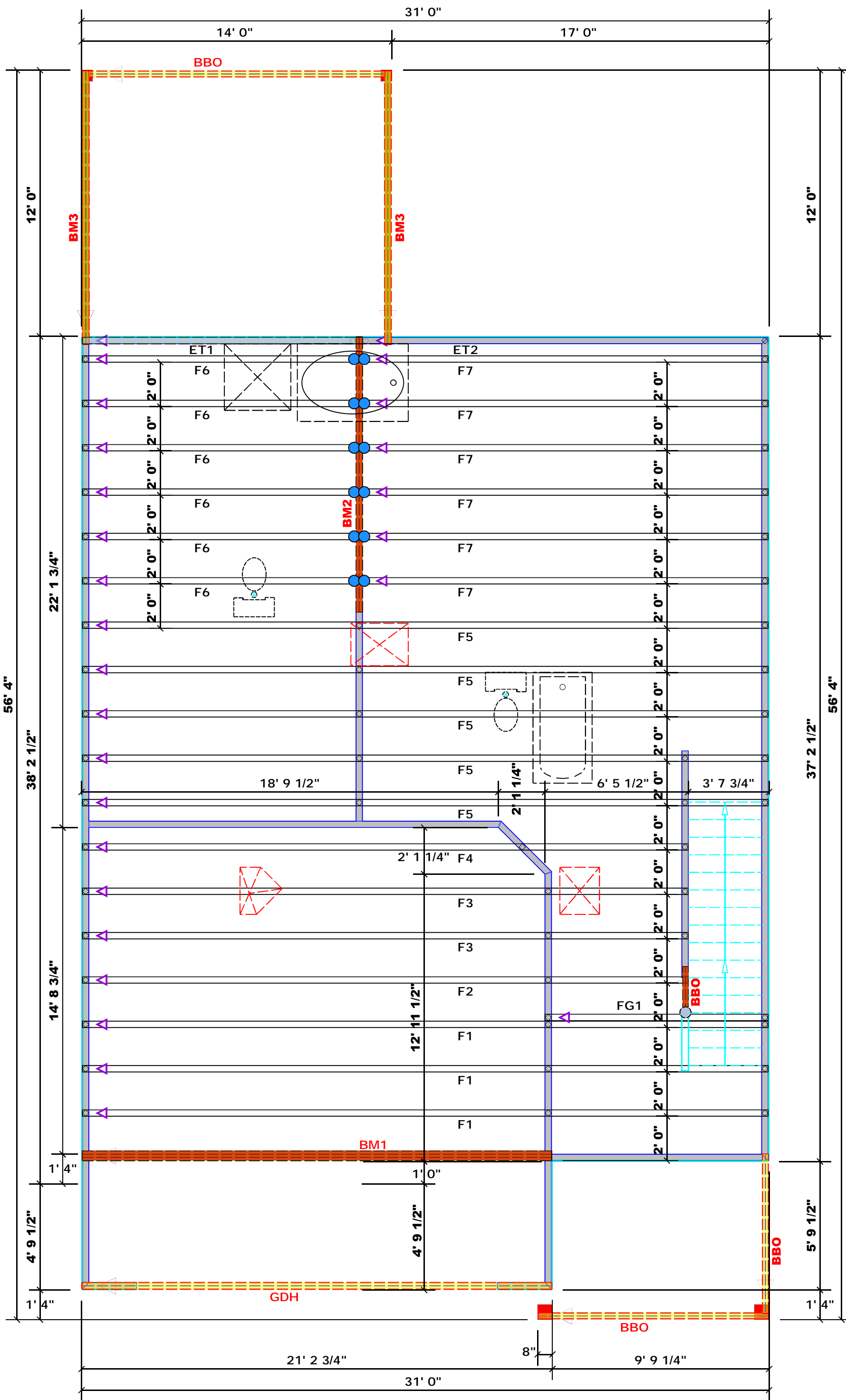


MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
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 lead 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 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



Hatch Legend	
[Red Hatch]	2nd Floor Walls
[Blue Hatch]	Box Storage
[Orange Hatch]	Flush Beams
[Yellow Hatch]	Drop Beam

All Walls Shown Are Considered Load Bearing

Plumbing Drop Notes	
1.	Plumbing drop locations shown are NOT exact.
2.	Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
3.	Adjust spacing as needed not to exceed 24"oc.

Dimension Notes	
1.	All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2.	All interior wall dimensions are to face of frame wall unless noted otherwise
3.	All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Connector Information				Nail Information		
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
●	HUS410	USP	12	NA	16d/3-1/2"	16d/3-1/2"
●	MSH422	USP	1	Varies	10d/3"	10d/3"

Products					
PlotID	Length	Product	Plies	Net Qty	
BM1	22' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3	
BM2	13' 0"	1-3/4"x 16" LVL Kerto-S	2	2	
BM3	13' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4	
GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	

1 Truss Placement Plan
Scale: 1/4"=1'

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

LOAD CHART FOR JACK STUDS					
HEIGHT	SPACING	LOAD	HEIGHT	SPACING	LOAD
12'0"	12'0"	2950	12'0"	12'0"	2950
12'6"	12'0"	3100	12'6"	12'0"	3100
13'2"	12'0"	3250	13'2"	12'0"	3250
13'8"	12'0"	3400	13'8"	12'0"	3400
14'4"	12'0"	3550	14'4"	12'0"	3550
15'0"	12'0"	3700	15'0"	12'0"	3700
15'6"	12'0"	3850	15'6"	12'0"	3850
16'2"	12'0"	4000	16'2"	12'0"	4000
16'8"	12'0"	4150	16'8"	12'0"	4150
17'4"	12'0"	4300	17'4"	12'0"	4300

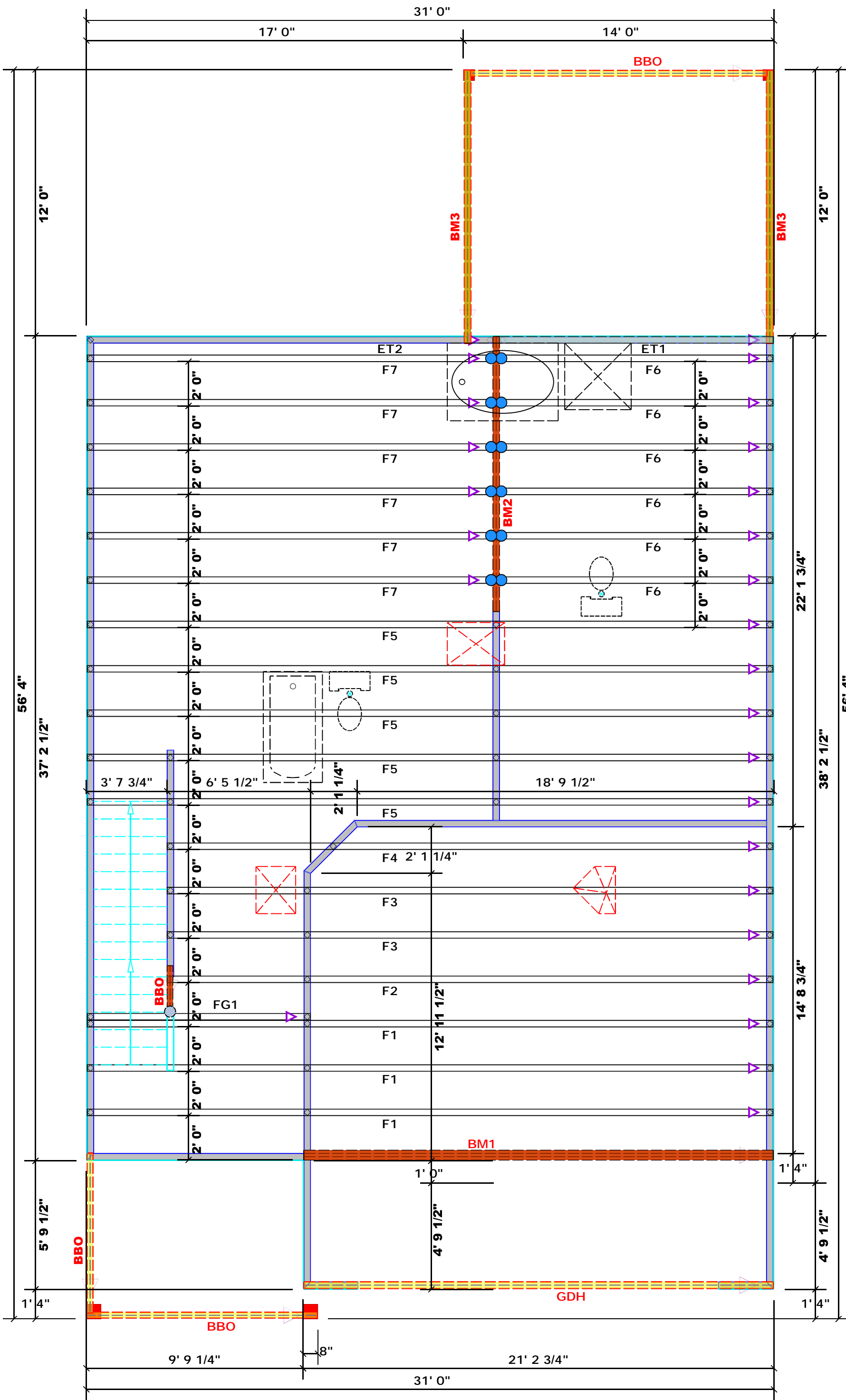
BUILDER	Wellco Contractors, Inc.	CITY / CO.	Spring Lake / Harnett
JOB NAME	Lot 134 Hidden Lakes	ADDRESS	46 Sugarberry Place
PLAN	Plan 10	MODEL	Floor
SEAL DATE	Seal Date	DATE REV.	11/18/22
QUOTE #	Quote #	DRAWN BY	David Landry
JOB #	J1122-5608	SALES REP.	Lenny Norris

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online at sbcindustry.com.

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature: **David Landry**

comTECH
ROOF & FLOOR
TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444



Hatch Legend	
[Red Hatch]	2nd Floor Walls
[Blue Hatch]	Box Storage
[Orange Hatch]	Flush Beams
[Yellow Hatch]	Drop Beam

All Walls Shown Are Considered Load Bearing

- Plumbing Drop Notes
1. Plumbing drop locations shown are NOT exact.
 2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
 3. Adjust spacing as needed not to exceed 24"oc.

- Dimension Notes
1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
 2. All interior wall dimensions are to face of frame wall unless noted otherwise
 3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
●	HUS410	USP	12	NA	16d/3-1/2"	16d/3-1/2"
●	MSH422	USP	1	Varies	10d/3"	10d/3"

Products					
PlotID	Length	Product	Plies	Net Qty	
BM1	22' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3	
BM2	13' 0"	1-3/4"x 16" LVL Kerto-S	2	2	
BM3	13' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4	
GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	

1 Truss Placement Plan
Scale: 1/4"=1'

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

LOAD CHART FOR JACK STUDS

MEMBER	SPACING	LOAD	REMARKS
1200	1	2950	1
3400	2	5100	2
5100	3	7650	3
6800	4	10200	4
8500	5	12750	5
10200	6	15300	6
11900	7		
13600	8		
15300	9		

BUILDER	Wellco Contractors, Inc.	CITY / CO.	Spring Lake / Harnett
JOB NAME	Lot 134 Hidden Lakes	ADDRESS	46 Sugarberry Place
PLAN	Plan 10	MODEL	Floor
SEAL DATE	Seal Date	DATE REV.	11/18/22
QUOTE #	Quote #	DRAWN BY	David Landry
JOB #	J1122-5608	SALES REP.	Lenny Norris

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Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

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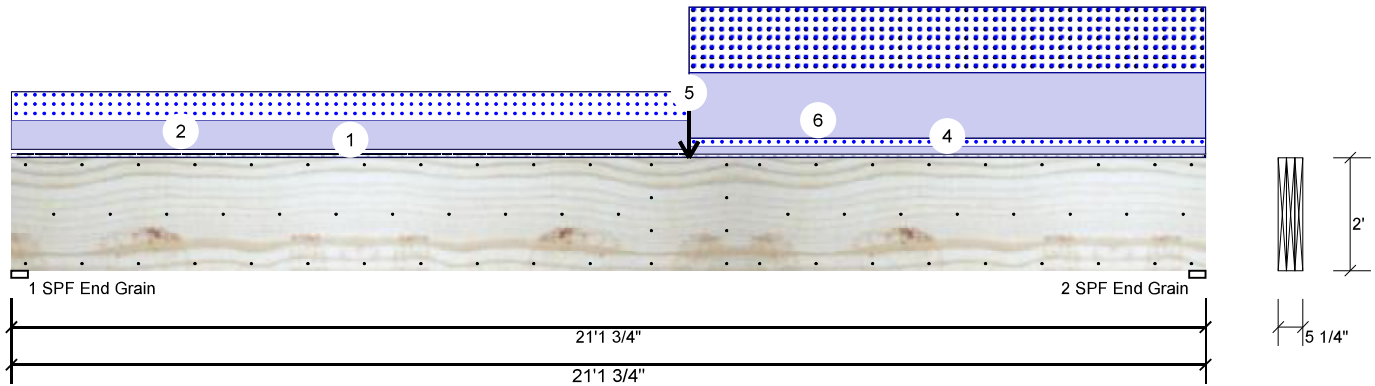


Client: Wellco Contractors, Inc.
 Project:
 Address:

Date: 11/18/2022
 Input by: David Landry
 Job Name: Lot 134 Hidden Lakes
 Project #: J1122-5608

BM1 Kerto-S LVL 1.750" X 24.000" 3-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	3
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:	Yes
Deck:	Not Checked
Ceiling:	Gypsum 1/2"

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	423	4121	3667	0	0
2	Vertical	423	6030	5575	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	50%	4121 / 3667	7788	L	D+S
2 - SPF End Grain	3.500"	Vert	75%	6030 / 5575	11606	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	61594 ft-lb	12'	131295 ft-lb	0.469 (47%)	D+S	L
Unbraced	61594 ft-lb	12'	61804 ft-lb	0.997 (100%)	D+S	L
Shear	10110 lb	18'10 1/4"	30912 lb	0.327 (33%)	D+S	L
LL Defl inch	0.196 (L/1266)	11'3 15/16"	0.518 (L/480)	0.379 (38%)	S	L
TL Defl inch	0.409 (L/607)	11'3 9/16"	0.690 (L/360)	0.593 (59%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at a maximum of 4'3 7/16" o.c.
- 8 Lateral slenderness ratio based on single ply width.

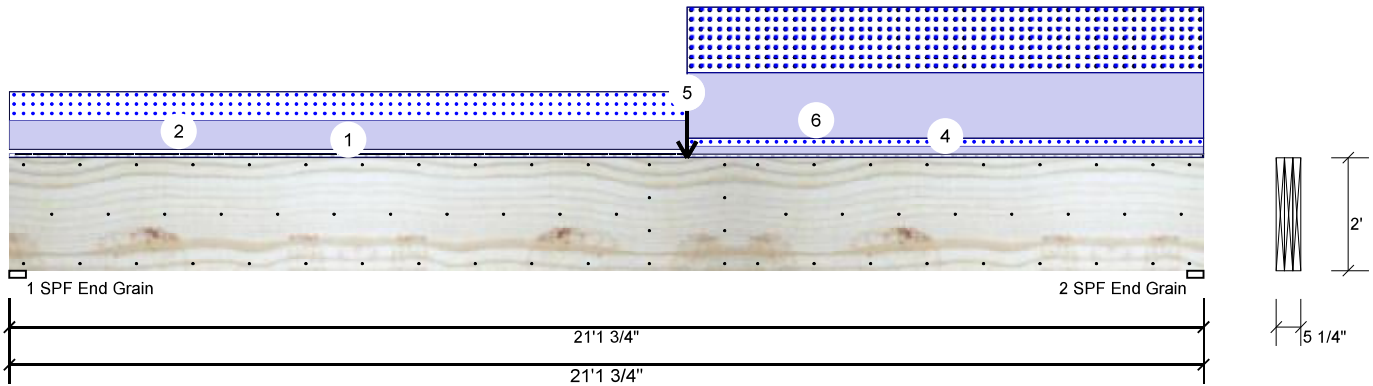
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In Far	0-0-0 to 21-1-12	1-0-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	Floor
1	Tie-In Near	0-0-0 to 21-1-12	0-0-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	Floor
2	Part. Uniform	0-0-0 to 12-0-0		Near Face	188 PLF	0 PLF	188 PLF	0 PLF	0 PLF	M2
3	Point	12-0-0		Near Face	431 lb	0 lb	431 lb	0 lb	0 lb	M2-GR

Continued on page 2...

<p>Notes</p> <p>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.</p> <p>Lumber</p> <ol style="list-style-type: none"> 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive chemicals 	<p>Handling & Installation</p> <ol style="list-style-type: none"> 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 	<p>6. For flat roofs provide proper drainage to prevent ponding</p>	<p>Manufacturer Info</p> <p>Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us</p>	<p>Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS</p>
			<p>This design is valid until 11/3/2024</p>	

BM1 Kerto-S LVL 1.750" X 24.000" 3-Ply - PASSED

Level: Level



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
4	Part. Uniform	12-0-0 to 21-1-12		Near Face	52 PLF	0 PLF	52 PLF	0 PLF	0 PLF	M1
5	Point	12-0-0		Top	2156 lb	0 lb	2156 lb	0 lb	0 lb	B1-GR
	Bearing Length	0-3-8								
6	Part. Uniform	12-0-0 to 21-1-12		Top	429 PLF	0 PLF	429 PLF	0 PLF	0 PLF	A2
	Self Weight				28 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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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
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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 11/3/2024

Manufacturer Info

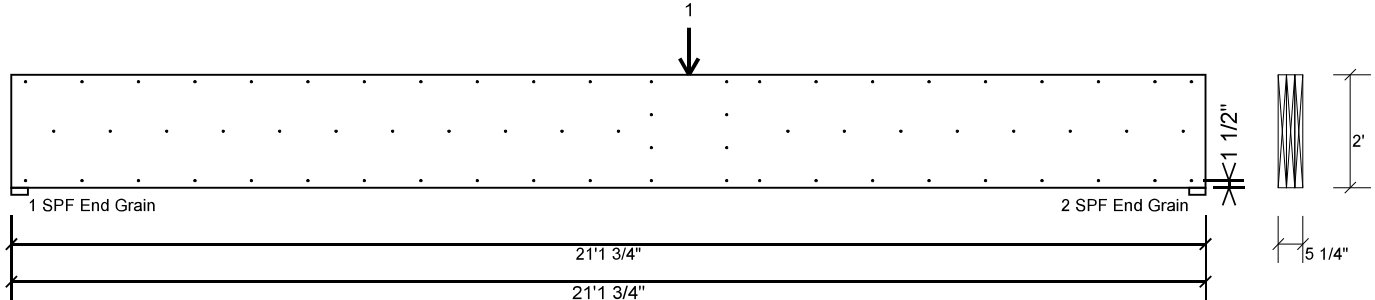
Metsä Wood
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(800) 622-5850
www.metsawood.com/us

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



BM1 Kerto-S LVL 1.750" X 24.000" 3-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c., except for regions covered by concentrated load fastening. Nail from both sides. Maximum end distance not to exceed 6".

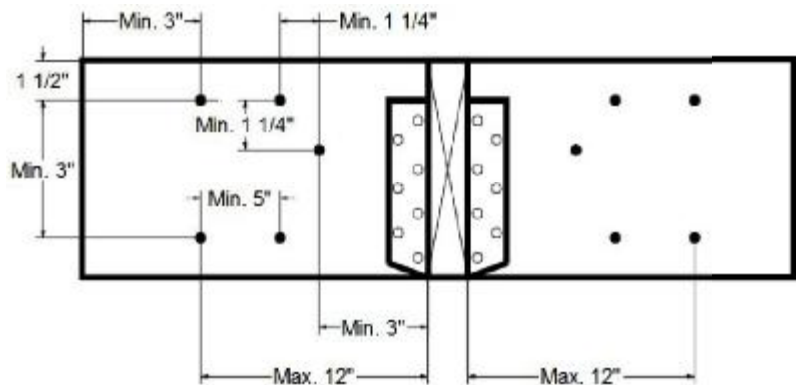
Capacity	88.8 %
Load	250.7 PLF
Yield Limit per Foot	282.4 PLF
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+S
Duration Factor	1.15

Concentrated Load

Fasten at concentrated side load at 12-0-0 with a minimum of (8) – 10d Box nails (.128x3") in the pattern shown. Repeat fasteners on both sides.

Capacity	76.4 %
Load	574.7lb.
Total Yield Limit	752.6 lb.
Cg	0.9994
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Load Combination	D+S
Duration Factor	1.15

Min/Max fastener distances for Concentrated Side Loads



Notes

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Lumber

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

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

Manufacturer Info

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(800) 622-5850
www.metsawood.com/us

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910-864-TRUS



This design is valid until 11/3/2024



Client: Wellco Contractors, Inc.

Project:

Address:

Date: 11/18/2022

Input by: David Landry

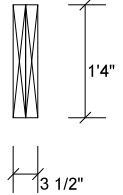
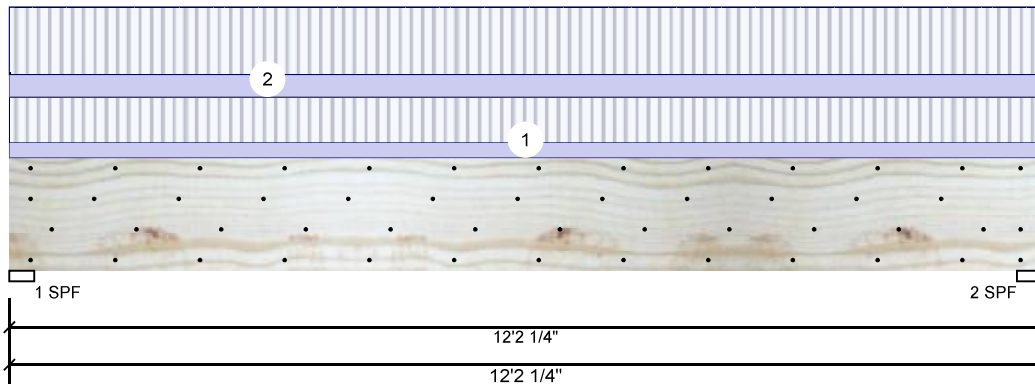
Job Name: Lot 134 Hidden Lakes

Project #: J1122-5608

Page 4 of 9

BM2 Kerto-S LVL 1.750" X 16.000" 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
Ceiling:	Gypsum 1/2"

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	3790	1343	0	0	0
2	Vertical	3790	1343	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	99%	1343 / 3790	5134	L	D+L
2 - SPF	3.500"	Vert	99%	1343 / 3790	5134	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	14539 ft-lb	6'1 1/8"	34565 ft-lb	0.421 (42%)	D+L	L
Unbraced	14539 ft-lb	6'1 1/8"	14539 ft-lb	1.000 (100%)	D+L	L
Shear	4888 lb	1'7 1/2"	11947 lb	0.409 (41%)	D+L	L
LL Defl inch	0.134 (L/1054)	6'1 1/8"	0.294 (L/480)	0.455 (46%)	L	L
TL Defl inch	0.181 (L/778)	6'1 1/8"	0.392 (L/360)	0.462 (46%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top must be laterally braced at a maximum of 8'1 1/2" o.c.
- 6 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			Far Face	84 PLF	250 PLF	0 PLF	0 PLF	0 PLF	F6
2	Uniform			Near Face	124 PLF	372 PLF	0 PLF	0 PLF	0 PLF	F7
	Self Weight				12 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 11/3/2024

Manufacturer Info
 Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

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



Client: Wellco Contractors, Inc.

Date: 11/18/2022

Page 5 of 9

Project:

Input by: David Landry

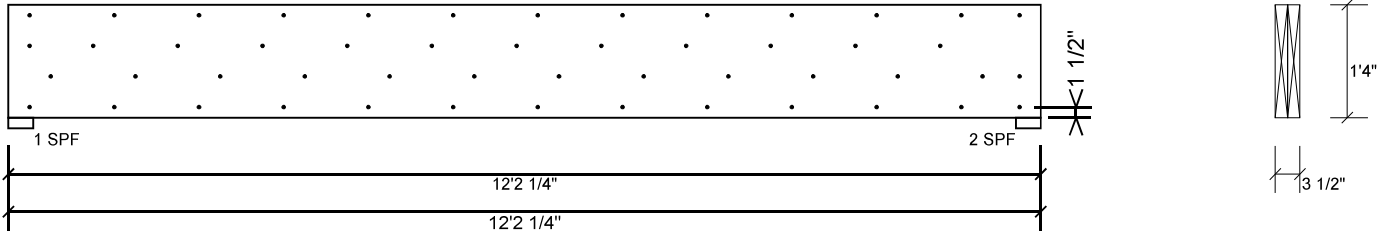
Address:

Job Name: Lot 134 Hidden Lakes

Project #: J1122-5608

BM2 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	75.7 %
Load	248.0 PLF
Yield Limit per Foot	327.4 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1.00

Notes

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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
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Project:

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Date: 11/18/2022

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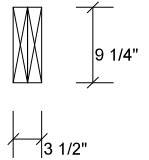
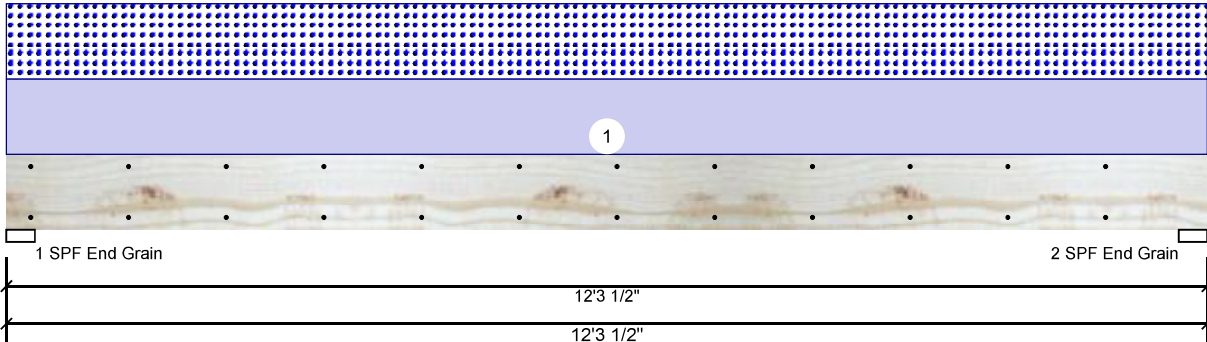
Job Name: Lot 134 Hidden Lakes

Project #: J1122-5608

Page 6 of 9

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
Ceiling:	Gypsum 1/2"

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	997	953	0	0
2	Vertical	0	997	953	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	19%	997 / 953	1949	L	D+S
2 - SPF End Grain	3.500"	Vert	19%	997 / 953	1949	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5552 ft-lb	6'1 3/4"	14423 ft-lb	0.385 (38%)	D+S	L
Unbraced	5552 ft-lb	6'1 3/4"	6421 ft-lb	0.865 (86%)	D+S	L
Shear	1618 lb	1' 3/4"	7943 lb	0.204 (20%)	D+S	L
LL Defl inch	0.158 (L/900)	6'1 3/4"	0.296 (L/480)	0.533 (53%)	S	L
TL Defl inch	0.323 (L/440)	6'1 3/4"	0.394 (L/360)	0.819 (82%)	D+S	L

Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Const.	Comments
1	Uniform			Top	0.9	1.15	1.6	1.25		
	Self Weight				155 PLF	0 PLF	155 PLF	0 PLF	0 PLF	D1

Notes
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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 11/3/2024

Manufacturer Info
 Metsä Wood
 301 Merritt 7 Building, 2nd Floor
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Client: Wellco Contractors, Inc.

Date: 11/18/2022

Page 7 of 9

Project:

Input by: David Landry

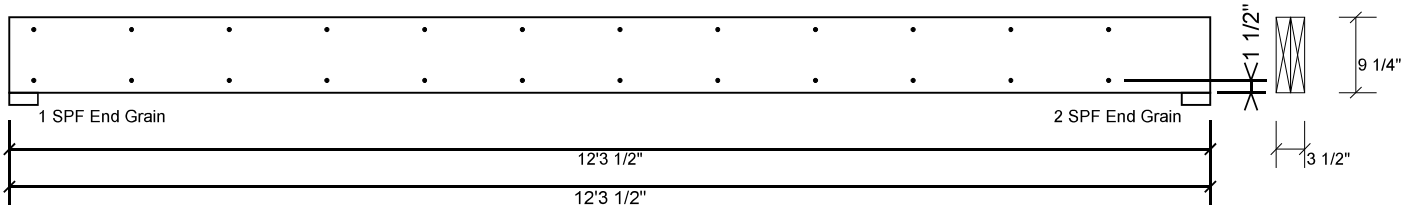
Address:

Job Name: Lot 134 Hidden Lakes

Project #: J1122-5608

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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Date: 11/18/2022

Input by: David Landry

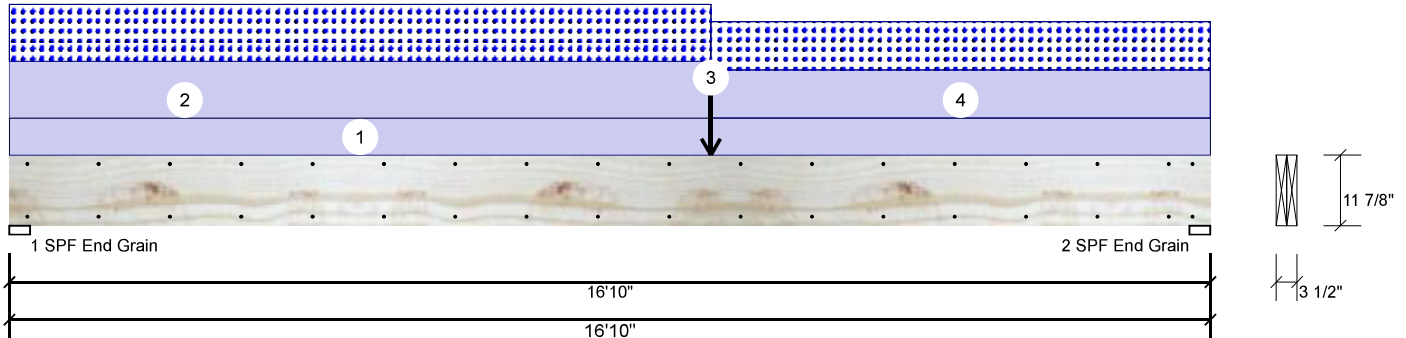
Job Name: Lot 134 Hidden Lakes

Project #: J1122-5608

Page 8 of 9

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
Ceiling:	Gypsum 1/2"

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1416	833	0	0
2	Vertical	0	1390	807	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	22%	1416 / 833	2249	L	D+S
2 - SPF End Grain	3.500"	Vert	21%	1390 / 807	2197	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9481 ft-lb	8'10 9/16"	22897 ft-lb	0.414 (41%)	D+S	L
Unbraced	9481 ft-lb	8'10 9/16"	9502 ft-lb	0.998 (100%)	D+S	L
Shear	1934 lb	1'3 3/8"	10197 lb	0.190 (19%)	D+S	L
LL Defl inch	0.183 (L/1072)	8'5 3/4"	0.409 (L/480)	0.448 (45%)	S	L
TL Defl inch	0.488 (L/403)	8'5 9/16"	0.546 (L/360)	0.893 (89%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 9'9 13/16" o.c.
- 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	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Part. Uniform	0-0-0 to 9-10-0		Top	92 PLF	0 PLF	92 PLF	0 PLF	0 PLF	M2
3	Point	9-10-0		Top	190 lb	0 lb	190 lb	0 lb	0 lb	M2-GR
	Bearing Length	0-3-8								
4	Part. Uniform	9-10-0 to 16-10-0		Top	78 PLF	0 PLF	78 PLF	0 PLF	0 PLF	M1
	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 11/3/2024

Manufacturer Info
 Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
 www.metsawood.com/us

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



Client: Wellco Contractors, Inc.

Project:

Address:

Date: 11/18/2022

Input by: David Landry

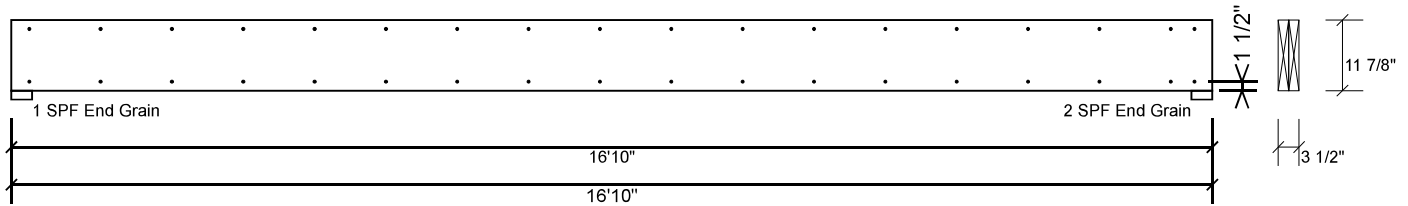
Job Name: Lot 134 Hidden Lakes

Project #: J1122-5608

Page 9 of 9

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 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 11/3/2024

Manufacturer Info

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

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





RE: J1122-5608
Lot 134 Hidden Lakes

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: J1122-5608
Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 10 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I54207109	ET1	9/14/2022
2	I54207110	ET2	9/14/2022
3	I54207111	F1	9/14/2022
4	I54207112	F2	9/14/2022
5	I54207113	F3	9/14/2022
6	I54207114	F4	9/14/2022
7	I54207115	F5	9/14/2022
8	I54207116	F6	9/14/2022
9	I54207117	F7	9/14/2022
10	I54207118	FG1	9/14/2022

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



September 14, 2022

Job J1122-5608	Truss ET1	Truss Type GABLE	Qty 1	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207109
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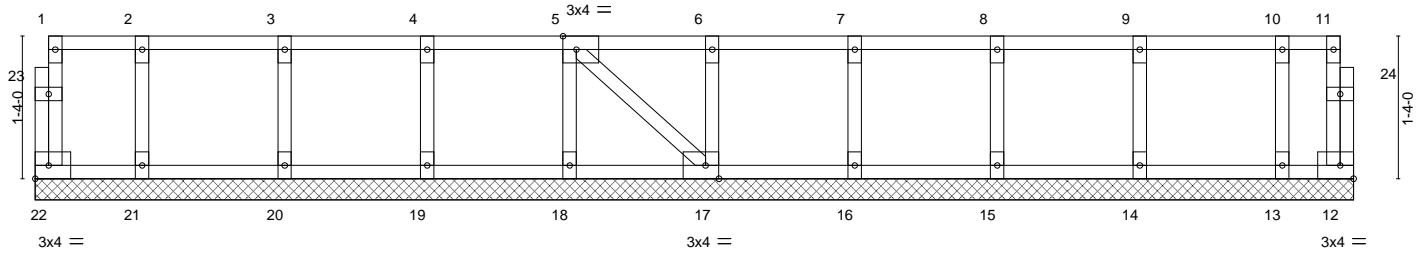
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:34 2022 Page 1
ID:UOEEOAAmG2AuolN2O4MtayeM4r-OFV_aFF_Zq3eY5MJIOv0h4lh3i1WdWsi1d1TpydzbZ

0₁1,8

0₁1,8

Scale = 1:20.3



1-0-0	2-4-0	3-8-0	5-0-0	6-4-0	7-8-0	9-0-0	10-4-0	11-8-0	12-4-0
1-0-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-0
Plate Offsets (X,Y)-- [5:0-1-8,Edge], [17:0-1-8,Edge]									

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 59 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 (flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 (flat)	
OTHERS 2x4 SP No.3 (flat)	


REACTIONS. All bearings 12-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

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



September 14, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 818 Soundside Road Edenton, NC 27932
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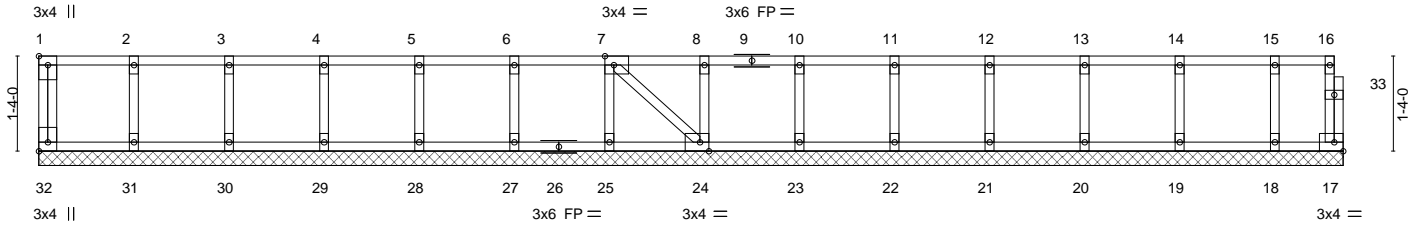
Job	Truss	Truss Type	Qty	Ply	Lot 134 Hidden Lakes	I54207110
J1122-5608	ET2	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:36 2022 Page 1
 ID:UOEEAaAmG2AuoIN2O4MtayeM4r-Ledk?wGE5RJmNPWitpxUmVq1WWi_5QL?CL68XiydhbX

0-1/8

Scale = 1:30.4



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-3-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-11-8

Plate Offsets (X, Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [24:0-1-8,Edge], [32:Edge,0-1-8]

LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	17	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S							

Weight: 84 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 (flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 (flat)	
OTHERS 2x4 SP No.3 (flat)	

REACTIONS. All bearings 18-3-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18


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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



September 14, 2022

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

Job J1122-5608	Truss F1	Truss Type Floor	Qty 3	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207111
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Comtech, Inc, Fayetteville, NC - 28314,

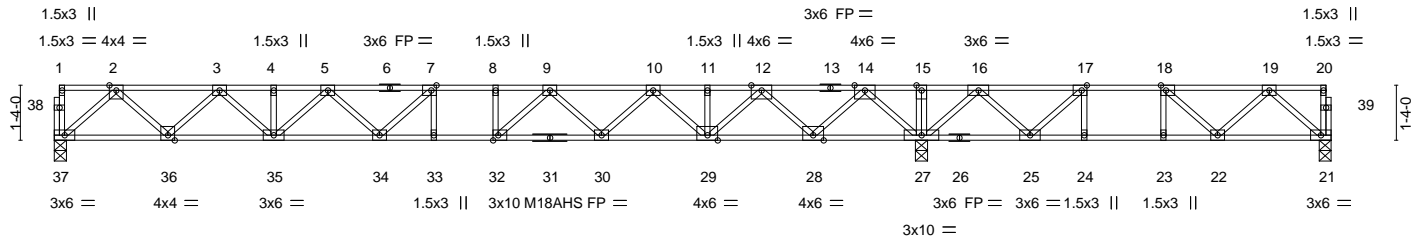
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:38 2022 Page 1
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0-1-8



0-1-8

Scale = 1:52.5



	21-0-0	30-11-0
	21-0-0	9-11-0
Plate Offsets (X,Y)--	[7:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [32:0-1-8,Edge]	

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.92	Vert(LL)	-0.32	33	>771	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.95	Vert(CT)	-0.44	33	>569	M18AHS	186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.69	Horz(CT)	0.07	27	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 162 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS.

(size) 37=0-3-8, 27=0-3-8, 21=0-3-8
Max Uplift 21=-133(LC 3)
Max Grav 37=1017(LC 10), 27=2125(LC 1), 21=430(LC 4)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1879/0, 3-4=-3155/0, 4-5=-3155/0, 5-7=-3785/0, 7-8=-3906/0, 8-9=-3906/0, 9-10=-3227/0, 10-11=-2076/0, 11-12=-2076/0, 12-14=-260/184, 14-15=0/2520, 15-16=0/2520, 16-17=-224/1413, 17-18=-671/831, 18-19=-603/380
BOT CHORD 36-37=0/1105, 35-36=0/2622, 34-35=0/3611, 33-34=0/3906, 32-33=0/3906, 30-32=0/3657, 29-30=0/2788, 28-29=0/1267, 27-28=-1137/0, 25-27=-1825/0, 24-25=-831/671, 23-24=-831/671, 22-23=-831/671, 21-22=-129/457
WEBS 2-37=-1469/0, 2-36=0/1076, 3-36=-1034/0, 3-35=0/724, 14-27=-1842/0, 14-28=0/1457, 12-28=-1434/0, 12-29=0/1134, 10-29=-1001/0, 10-30=0/641, 5-35=-621/0, 5-34=-20/377, 7-34=-420/202, 9-30=-636/0, 9-32=-49/665, 8-32=-268/0, 16-27=-1091/0, 16-25=0/862, 17-25=-1104/0, 19-21=-607/171, 19-22=-349/203, 18-22=-92/612, 18-23=-363/0, 17-24=0/393

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 21.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



September 14, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job J1122-5608	Truss F2	Truss Type Floor	Qty 1	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207112
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:40 2022 Page 1
ID:UOEEA0AAMG2Au0IN2O4MtayeM4r-DPIFrIKI9gpnG0qT6f0QxL?Xl7f5144b7y4MgTydhbT

0-1-8



Scale: 1/4"=1'

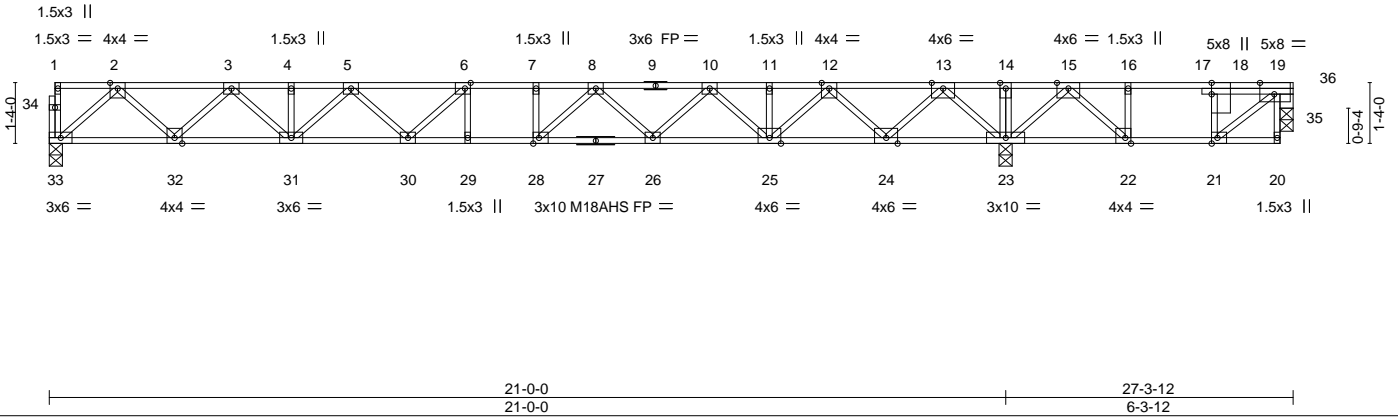


Plate Offsets (X,Y)--	[6:0-1-8,Edge], [18:0-3-0,0-0-0], [19:0-3-12,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,Edge]
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LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.78	Vert(LL) -0.30	29	>842	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.89	Vert(CT) -0.41	29	>618	360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.07	23	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 146 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 (flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 23-24,22-23,21-22.
WEBS 2x4 SP No.3(flat)	
OTHERS 4x4 SP No.2(flat)	

REACTIONS. (size) 33=0-3-8, 23=0-3-8, 36=0-3-8
 Max Uplift 36=-315(LC 3)
 Max Grav 33=1025(LC 10), 23=2032(LC 1), 36=181(LC 4)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1896/0, 3-4=-3192/0, 4-5=-3192/0, 5-6=-3838/0, 6-7=-3974/0, 7-8=-3974/0,
 8-10=-3319/0, 10-11=-2183/0, 11-12=-2183/0, 12-13=-393/24, 13-14=0/2143,
 14-15=0/2143, 15-16=-94/767, 16-18=-97/807, 18-19=-94/767
 BOT CHORD 32-33=0/1115, 31-32=0/2648, 30-31=0/3655, 29-30=0/3974, 28-29=0/3974, 26-28=0/3737,
 25-26=0/2886, 24-25=0/1387, 23-24=-783/0, 22-23=-1499/0, 21-22=-767/94
 WEBS 18-21=-87/486, 19-21=-1012/98, 2-33=-1481/0, 2-32=0/1087, 3-32=-1045/0, 3-31=0/739,
 5-31=-629/0, 5-30=-10/404, 6-30=-447/170, 13-23=-1811/0, 13-24=0/1446,
 12-24=-1397/0, 12-25=0/1095, 10-25=-969/0, 10-26=0/613, 8-26=-596/0, 8-28=-84/649,
 7-28=-282/8, 15-23=-997/0, 15-22=0/1138, 16-22=-613/0, 19-36=-192/295

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Bearing at joint(s) 36 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 315 lb uplift at joint 36.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.



September 14, 2022

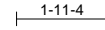
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job J1122-5608	Truss F3	Truss Type Floor	Qty 2	Ply 1	Lot 134 Hidden Lakes	I54207113
Comtech, Inc, Fayetteville, NC - 28314,					8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:41 2022 Page 1	
					ID:UOEEAoAAmG2AuolN2O4MtayeM4r-hbQd2eKNw_xetAPfgMXFTZxgaXBdmXYkMcpvCvydhbS	

0-1-8



0-1-8
Scale = 1:45.3

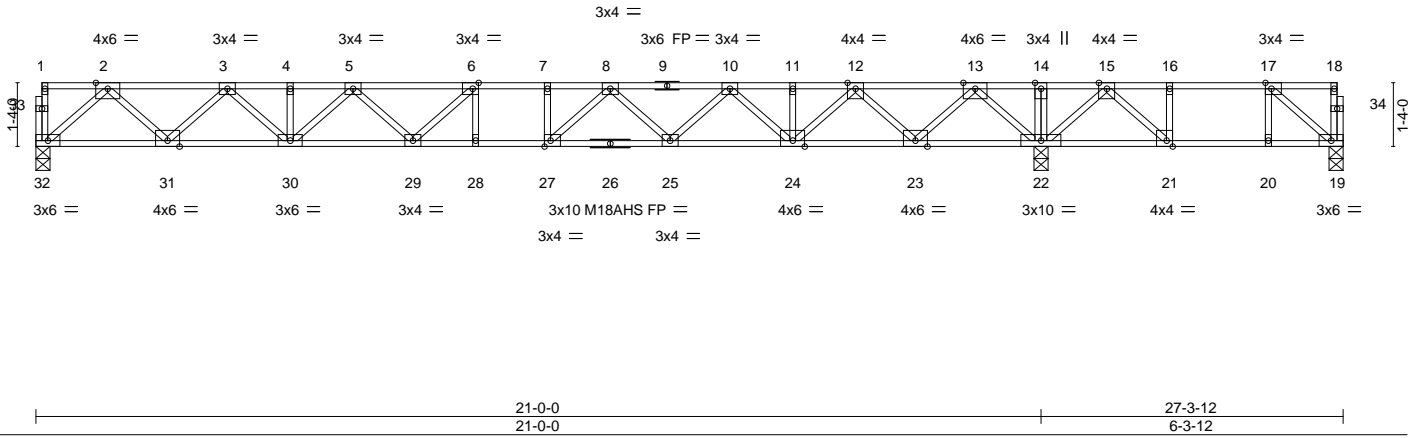


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [17:0-1-8,Edge], [21:0-1-8,Edge], [27:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.94	Vert(LL)	-0.35	28	>725	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.94	Vert(CT)	-0.47	28	>532	M18AHS	186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.67	Horz(CT)	0.08	22	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 144 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-3-8, 22=0-3-8, 19=0-3-8
Max Uplift 19=-208(LC 3)
Max Grav 32=1053(LC 3), 22=1919(LC 1), 19=210(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1957/0, 3-4=-3312/0, 4-5=-3312/0, 5-6=-4019/0, 6-7=-4201/0, 7-8=-4201/0, 8-10=-3625/0, 10-11=-2545/0, 11-12=-2545/0, 12-13=-817/0, 13-14=0/1732, 14-15=0/1732, 15-16=-141/507, 16-17=-141/507
BOT CHORD 31-32=0/1146, 30-31=0/2738, 29-30=0/3802, 28-29=0/4201, 27-28=0/4201, 25-27=0/4013, 24-25=0/3219, 23-24=0/1781, 22-23=-392/0, 21-22=-1105/0, 20-21=-507/141, 19-20=-507/141
WEBS 2-32=-1524/0, 2-31=0/1128, 3-31=-1086/0, 3-30=0/780, 5-30=-666/0, 5-29=0/432, 6-29=-496/151, 13-22=-1784/0, 13-23=0/1416, 12-23=-1361/0, 12-24=0/1057, 10-24=-934/0, 10-25=0/581, 8-25=-560/0, 8-27=-125/614, 15-22=-897/0, 15-21=0/981, 16-21=-475/0, 17-19=-179/671

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 19.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwads.



September 14, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road
Edenton, NC 27932

Job J1122-5608	Truss F4	Truss Type Floor	Qty 1	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207114
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:43 2022 Page 1
ID:UOEEA0AAmG2Au0N2O4MtayeM4r-e_YOTKMdSbBM7UY2nnZ7Z_d0JLs7ES1pwI0HoydhdBQ

0-1-8

0-1-8
Scale = 1:45.3

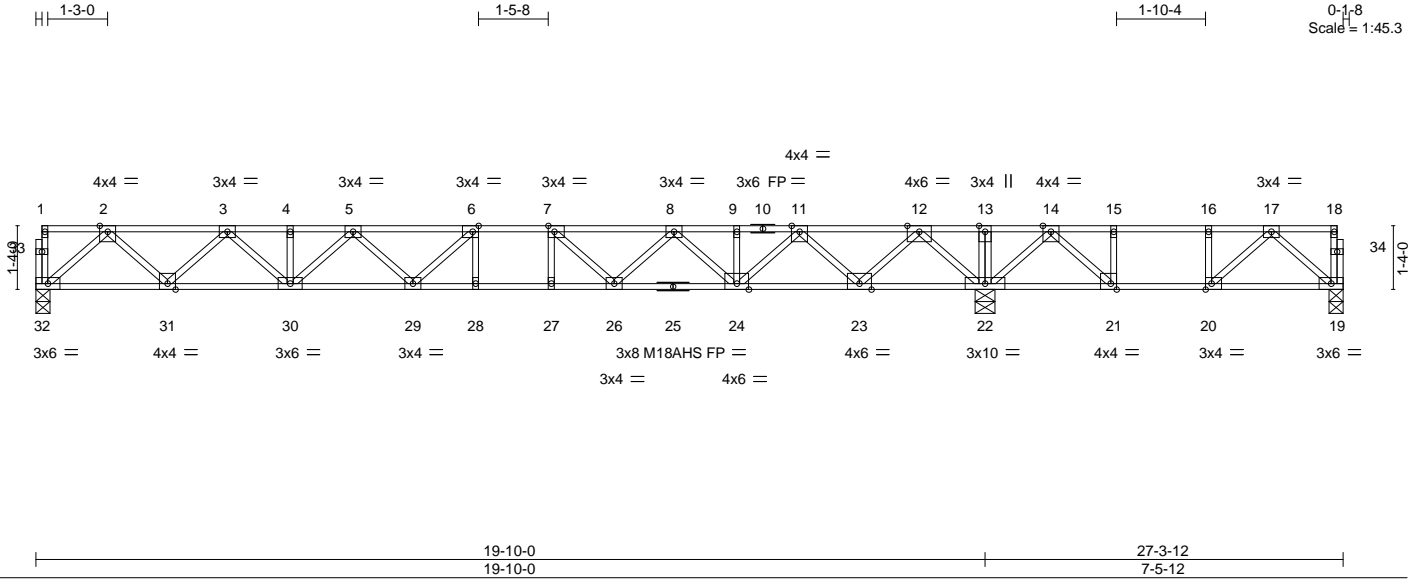


Plate Offsets (X,Y)--	[6:0-1-8,Edge], [7:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge]
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LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.92	Vert(LL)	-0.29	28	>824	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 1.00	Vert(CT)	-0.39	28-29	>602	M18AHS	186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.63	Horz(CT)	0.06	22	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 144 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 (flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 (flat)	

REACTIONS. (size) 32=0-3-8, 22=0-4-15, 19=0-3-8
Max Uplift 19=138(LC 3)
Max Grav 32=991(LC 10), 22=1840(LC 1), 19=320(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1822/0, 3-4=-3042/0, 4-5=-3042/0, 5-6=-3616/0, 6-7=-3700/0, 7-8=-3318/0, 8-9=-2378/0, 9-11=-2378/0, 11-12=-786/0, 12-13=0/1644, 13-14=0/1644, 14-15=-356/583, 15-16=-356/583, 16-17=-356/583
BOT CHORD 31-32=0/1075, 30-31=0/2538, 29-30=0/3473, 28-29=0/3700, 27-28=0/3700, 26-27=0/3700, 24-26=0/2971, 23-24=0/1683, 22-23=-376/0, 21-22=-1119/0, 20-21=-583/356, 19-20=-189/288
WEBS 2-32=-1429/0, 2-31=0/1038, 3-31=-996/0, 3-30=0/685, 5-30=-586/0, 5-29=-18/347, 6-29=-400/216, 12-22=-1687/0, 12-23=0/1321, 11-23=-1271/0, 11-24=0/968, 8-24=-825/0, 8-26=0/562, 7-26=-710/0, 7-27=-101/258, 14-22=-873/0, 14-21=0/957, 15-21=-486/0, 17-19=-380/250, 17-20=-536/93, 16-20=-78/262

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 19.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwads.



September 14, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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

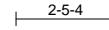
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 134 Hidden Lakes	I54207115
J1122-5608	F5	Floor	5	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:44 2022 Page 1
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0-1-8



0-1-8
Scale = 1:52.5

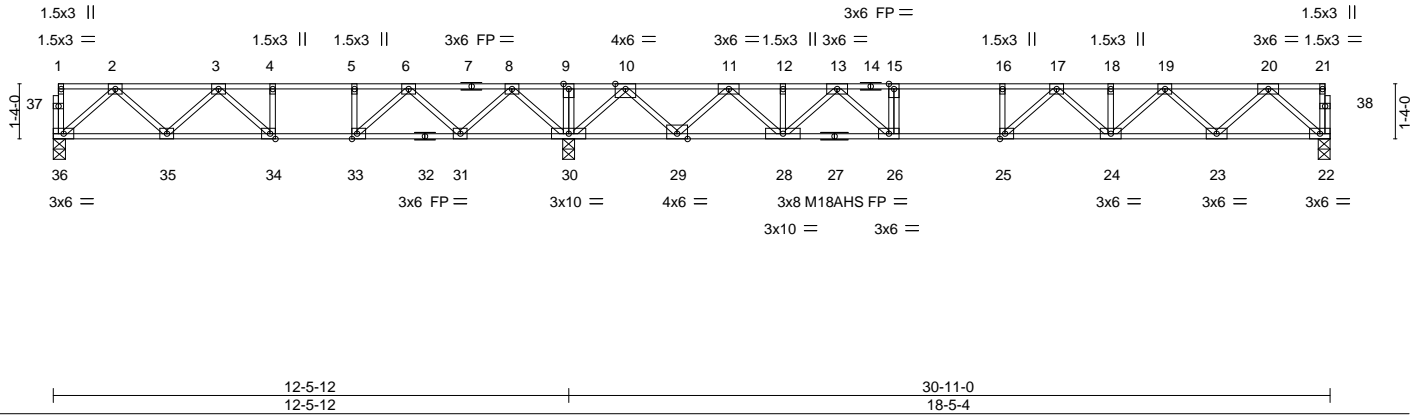


Plate Offsets (X,Y)--	[25:0-1-8,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge]
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LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.91	Vert(LL)	-0.28 24-25	>786	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.96	Vert(CT)	-0.38 24-25	>585	360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.58	Horz(CT)	0.05 22	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 161 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 (flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 (flat)	

REACTIONS. (size) 30=0-3-8, 36=0-3-8, 22=0-3-8
Max Grav 30=1987(LC 1), 36=594(LC 3), 22=900(LC 4)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-971/0, 3-4=-1303/292, 4-5=-1303/292, 5-6=-1303/292, 6-8=-485/899, 8-9=0/1877, 9-10=0/1877, 10-11=-543/186, 11-12=-2004/0, 12-13=-2004/0, 13-15=-3010/0, 15-16=-3010/0, 16-17=-3010/0, 17-18=-2676/0, 18-19=-2676/0, 19-20=-1624/0
BOT CHORD 35-36=0/628, 34-35=-70/1264, 33-34=-292/1303, 31-33=-627/966, 30-31=-1158/0, 29-30=-766/0, 28-29=0/1368, 26-28=0/2506, 25-26=0/3010, 24-25=0/2948, 23-24=0/2254, 22-23=0/972
WEBS 2-36=-834/0, 2-35=-18/476, 3-35=-408/111, 8-30=-1199/0, 8-31=0/804, 6-31=-837/0, 6-33=0/818, 3-34=-346/53, 5-33=-389/0, 20-22=-1292/0, 20-23=0/906, 19-23=-877/0, 19-24=0/573, 10-30=-1616/0, 10-29=0/1225, 11-29=-1181/0, 11-28=0/900, 13-28=-722/0, 13-26=0/905, 17-24=-370/0, 17-25=-216/353, 15-26=-439/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



September 14, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job J1122-5608	Truss F6	Truss Type Floor	Qty 6	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207116
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:45 2022 Page 1
ID:UOEEOAAmG2AuoIN2O4MtayeM4r-aMg8u?NtzCR4MoiRvCbbePiW18idiRvKHEn7MhydhbO

0-1-8



Scale = 1:20.4

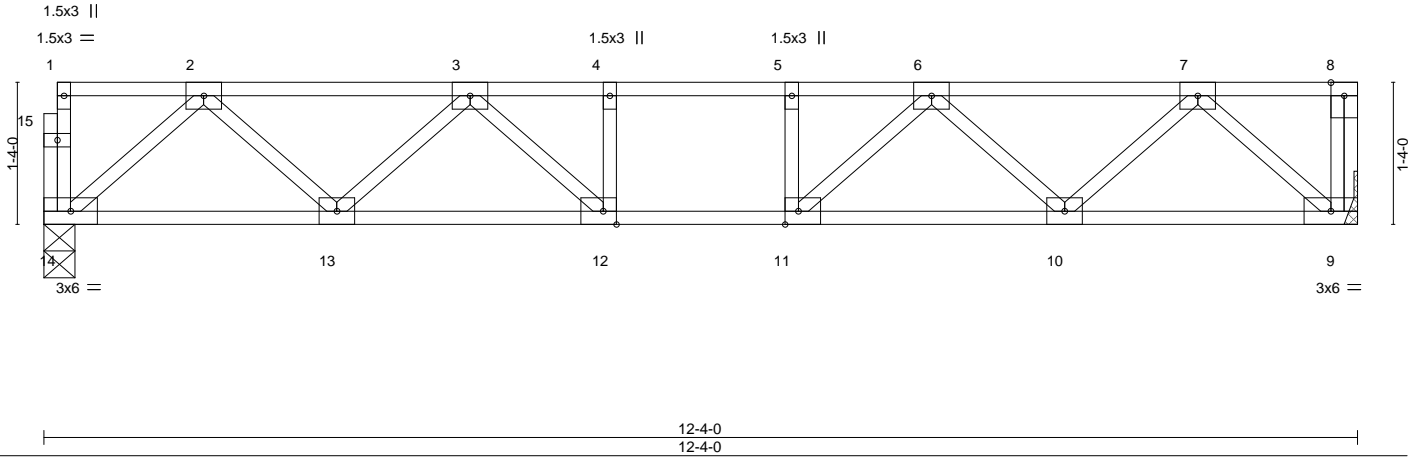


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.36	Vert(LL) -0.06 10-11 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.27	Vert(CT) -0.08 10-11 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 66 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 (flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 (flat)	

REACTIONS. (size) 14=0-3-8, 9=Mechanical
Max Grav 14=658(LC 1), 9=665(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1102/0, 3-4=-1638/0, 4-5=-1638/0, 5-6=-1638/0, 6-7=-1102/0
BOT CHORD 13-14=0/700, 12-13=0/1474, 11-12=0/1638, 10-11=0/1473, 9-10=0/701
WEBS 2-14=-930/0, 2-13=0/559, 3-13=-517/0, 7-9=-933/0, 7-10=0/559, 6-10=-516/0, 6-11=0/398, 3-12=0/398

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



September 14, 2022

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

Job	Truss	Truss Type	Qty	Ply	Lot 134 Hidden Lakes	I54207117
J1122-5608	F7	Floor	6	1		
Comtech, Inc, Fayetteville, NC - 28314,						Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:46 2022 Page 1
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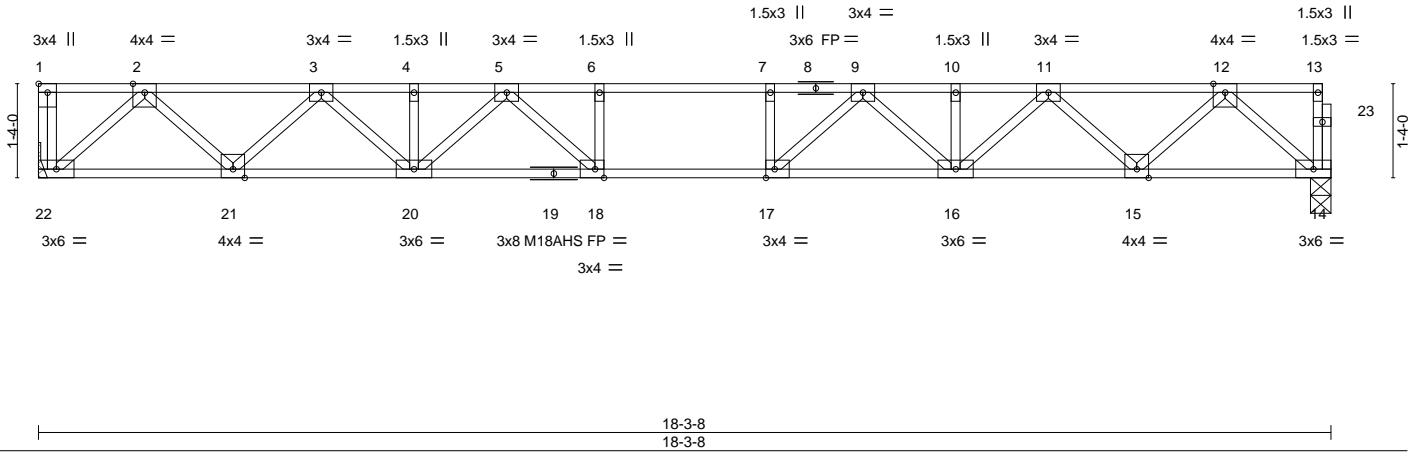
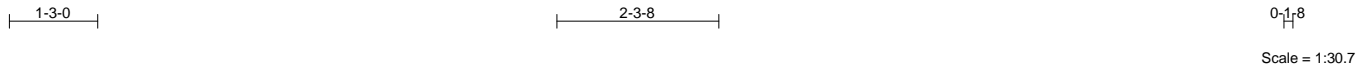


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.66	Vert(LL) -0.24	18-20	>885	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.81	Vert(CT) -0.33	18-20	>658	360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.06	14	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 96 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.1 (flat)
 BOT CHORD 2x4 SP No.1 (flat)
 WEBS 2x4 SP No.3 (flat)

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

REACTIONS. (size) 22=Mechanical, 14=0-3-8
 Max Grav 22=992(LC 1), 14=986(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1812/0, 3-4=-3034/0, 4-5=-3034/0, 5-6=-3661/0, 6-7=-3661/0, 7-9=-3661/0, 9-10=-3034/0, 10-11=-3034/0, 11-12=-1811/0
 BOT CHORD 21-22=0/1071, 20-21=0/2523, 18-20=0/3407, 17-18=0/3661, 16-17=0/3407, 15-16=0/2523, 14-15=0/1071
 WEBS 2-22=-1426/0, 2-21=0/1030, 3-21=-989/0, 3-20=0/696, 12-14=-1423/0, 12-15=0/1030, 11-15=-989/0, 11-16=0/695, 9-16=-507/0, 9-17=-40/665, 5-20=-507/0, 5-18=-40/665, 6-18=-338/0, 7-17=-338/0

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



September 14, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road
 Edenton, NC 27932

Job J1122-5608	Truss FG1	Truss Type Floor	Qty 1	Ply 1	Lot 134 Hidden Lakes Job Reference (optional)	I54207118
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 14:14:47 2022 Page 1
ID:UOEEA0AAmG2Au0IN2O4MtayeM4r-WlovJhP8Vqhoc5sp0de3jqnp9yLgAHCdkYGDQZydhbM

0-1-8

0-1-8
Scale = 1:16.8

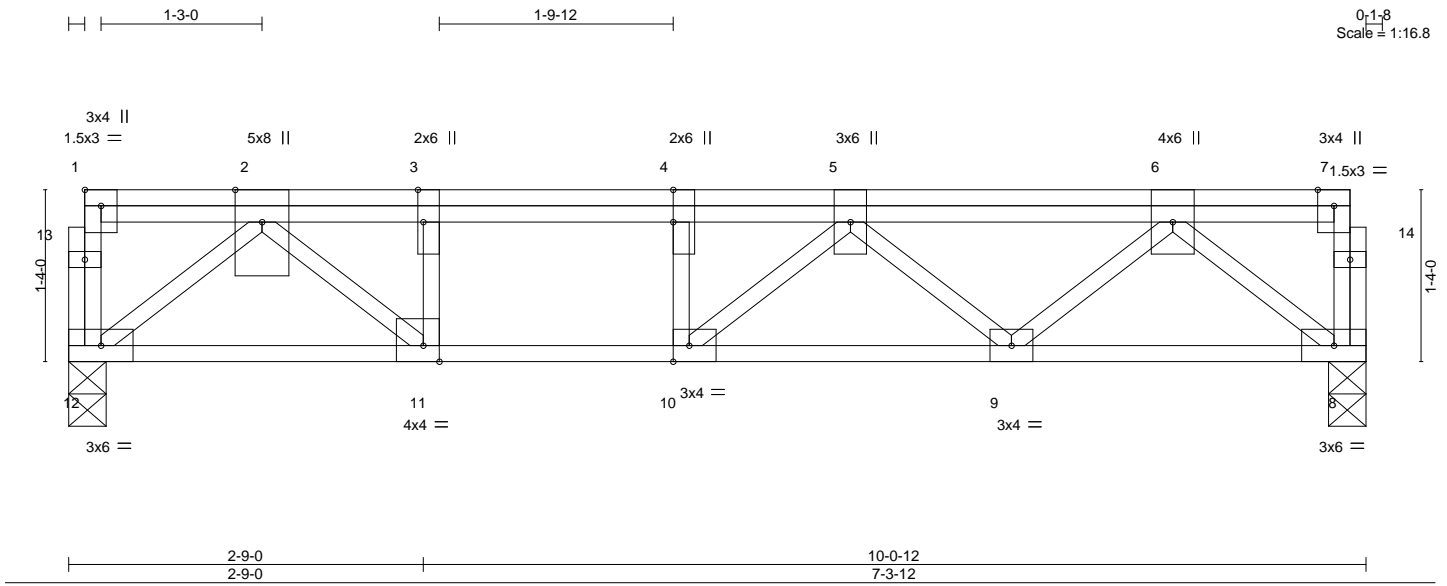


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-3-0,Edge], [4:0-3-0,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.58	Vert(LL) -0.07 9-10 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.54	Vert(CT) -0.10 9-10 >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.02 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 67 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)

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

REACTIONS. (size) 12=0-3-8, 8=0-3-8
Max Grav 12=691(LC 1), 8=775(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1549/0, 3-4=-1549/0, 4-5=-1549/0, 5-6=-1434/0
BOT CHORD 11-12=0/713, 10-11=0/1549, 9-10=0/1949, 8-9=0/866
WEBS 2-12=-922/0, 2-11=0/1124, 3-11=-659/0, 6-8=-1124/0, 6-9=0/771, 5-9=-698/0, 5-10=-612/29, 4-10=-12/362

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 400 lb down at 6-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

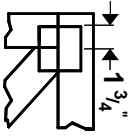
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-12=-10, 1-7=-100
Concentrated Loads (lb)
Vert: 5=-400(B)



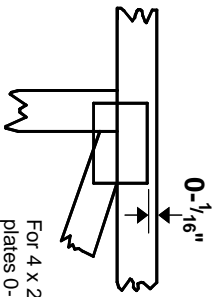
September 14, 2022

Symbols

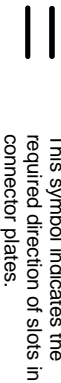
PLATE LOCATION AND ORIENTATION



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- $\frac{1}{16}$ " from outside edge of truss.



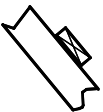
* Plate location details available in **MITek 20/20** software or upon request.

PLATE SIZE

4 X 4

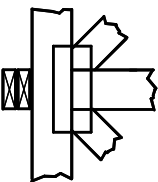
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

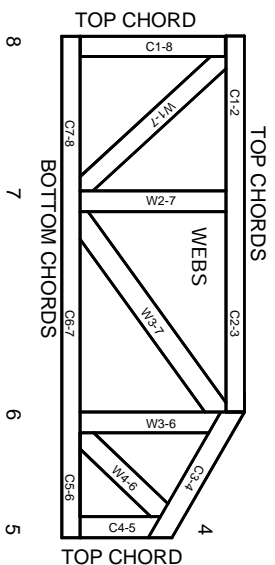


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

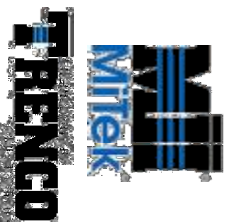
ICC-ES Reports:

- ESR-1311, ESR-1352, ESR 1988
- ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Lumber used shall be sheathed or purlins provided at spacing indicated on design.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and lead vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.