

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0125-0519 89 LAKEFOREST TRAIL FLOOR & ROOF

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

Pages or sheets covered by this seal: I71269271 thru I71269323

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



February 10,2025

Gilbert, Eric

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

Job	Truss	Truss Type	Qty Ply	89 LAKEFOREST TRAIL FLOOR & ROOF	171260271
J0125-0519	2E1	GABLE	1 1		17 120327 1
				Job Reference (optional)	
Comtech. Inc. Favette	ville. NC - 28314.		8.630 s Se	p 26 2024 MiTek Industries, Inc. Thu Feb 6 1	3:14:32 2025 Page 1
····, ·, ·,	-, ,	ID:ep5	5_EG0sxmaxN75H5YdY	hJzNaDM-RfC?PsB70Hq3NSgPqnL8w3uITXt	oGKWrCDoi7J4zJC?f
0- 1 -8					0- <u>1</u> -8
					Scale = 1:55.2
		3x6 FP =	3x6 FP =		
1 2 3	4 5 6 7 8	3 9 10 11 12 13 14 15	16 17 18 19	20 21 22 23 24 25	26 27 28
					58 0-

56 55 54	53 52 51 50	49 48 47 46 45 44 43 42	41 40 39	38 37 36 35 34 33 32	31 30 29
3x4 =		3x6 FP=		3x6 FP =	3x4 =

$+\frac{1.4-0}{1.4-0}+\frac{2.8-0}{1.4-0}+\frac{4.0-0}{1.4-0}+\frac{5.4-0}{1.4-0}+\frac{6.8-0}{1.4-0}+\frac{8.0-0}{1.4-0}+\frac{9.4-0}{1.4-0}+\frac{10.8-0}{1.4-0}+\frac{12.0-0}{$

LOADING (p TCLL 4 TCDL 1 BCLL BCDL	psf) 40.0 10.0 0.0 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2021/TP	2-0-0 1.00 1.00 YES 12014	CSI. TC BC WB Matrix	0.06 0.01 0.03 <-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 29	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 135 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORE BOT CHORE WEBS OTHERS	D 2x4 SP D 2x4 SP 2x4 SP 2x4 SP 2x4 SP	No.1(flat) No.1(flat) No.3(flat) No.3(flat)				BRACING- TOP CHOR BOT CHOR	D	Structur except e Rigid ce	al wood end vertio eiling dire	sheathing dir cals. ctly applied o	ectly applied or 6-0-0 c or 10-0-0 oc bracing.	oc purlins,

REACTIONS. All bearings 33-0-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 56, 29, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40, 41, 42, 55, 54, 53, 52, 51, 50, 49, 47, 46, 45, 44, 43

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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.

> SEAL 036322 February 10,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 **ANSUTPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

Job		Truss				Truss	Туре						Qty	Ply	89 LAF	EFORE	ST TRAIL	- FLOOF	₹& ROC)F		174.00	0070
.0125-0519		2F2				GABI	F						1	1								1/120	9272
00120 0010						0, 102	-						•		Job Re	ference (optional)						
Comtech, Inc,	Fayette	ville, N	C - 2831	14,										8.630 s Se	p 26 202	4 MiTek I	ndustries	s, Inc. T	hu Feb	6 13:14:	33 202	5 Page	1
											ID:	ep5_EG	i0sxmax	N/5H5YdY	hJzNaDľ	A-RfC?P	sB70Hq3	NSgPqr	iL8w3uI	IXbGKV	VrCD01/	/J4zJC	/1
0-1-8																						0-1-8	
																						Casla	4.50.0
																						Scale =	1:52.0
											3x6	FP =											
1 2	3	4	5	6	7	8	9	10	11	12	13	14 15	5 16	17 1	8 19	20	21	22	23	24	25	26	
34	8	8	8	1	8	-	8	8	8	8	<u> </u>		8	8	e	8	8	e					55 9
4							6																-
****	****		(XXXXX	XXXXX	XXXXXX	*****	XXXXX	XXXXXX	XXXXXX		(XXXX		*****	×××××××××	<u> </u>	XXXXXX	XXXXXXX	XXXXXX	<u> </u>	<u>~~~~~</u>	XXXXXX	XXXI	
53 52	51	50	49	48	47	46	45	44 43	42	41	40	39	38	37 36 3	5 34	33	32	31	30	29	28	27	
3x4 =							3>	6 FP=						3x6 FP =	=							3x4 =	:

16-10-0 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 + 15-9-0 + 18-2-0 + 19-6-0 + 20-10-0 + 22-2-0 + 23-6-0 + 24-10-0 + 26-2-0 + 27-6-0 + 28-10-0 + 30-2-0 + 31-6-0 + 11-4-0 + 1

LOADING TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2021/TP	2-0-0 1.00 1.00 YES Pl2014	CSI. TC BC WB Matrix	0.06 0.01 0.03 -R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 27	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 130 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHOR BOT CHOR WEBS OTHERS	RD 2x4 SI RD 2x4 SI 2x4 SI 2x4 SI 2x4 SI	 No.1(flat) No.1(flat) No.3(flat) No.3(flat) No.3(flat) 				BRACING- TOP CHOR BOT CHOR	D D	Structur except Rigid ce	al wood end vertie eiling dire	sheathing dir cals. ectly applied o	rectly applied or 6-0-0 c or 10-0-0 oc bracing.	oc purlins,

REACTIONS. All bearings 31-6-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 53, 27, 40, 28, 29, 30, 31, 32, 33, 34, 35, 37, 38, 39, 52, 51, 50, 49, 48, 47, 46, 45, 43, 42, 41

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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.

> SEAL 036322 February 10,2025

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LOADING TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2021/TPI2	2-0-0 1.00 1.00 YES 2014	CSI. TC BC WB Matrix-	0.06 0.01 0.03 -R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 51 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHO BOT CHO	RD 2x4 SP RD 2x4 SP	P No.1(flat) P No.1(flat)				BRACING- TOP CHOR	D	Structur	ral wood end verti	sheathing dir cals.	ectly applied or 6-0-0	oc purlins,

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

BOT CHORD

ot end verticals Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-10-0.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 12, 13, 14, 15, 19, 18, 17, 16

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

NOTES-

OTHERS

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **PCB Building Component Scitut Information**. Building from the Structure Building Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





		- • •			
	1-4-0	1-3-0	1-3-0	1-4-0	1
Plate Offsets (X	,Y) [11:0-1-8,0-1-8], [12:0-1-8,0-1-8]				
LOADING (psf	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIP	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a	999 MT20 244/1	90
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 6 n/a	n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-R		Weight: 24 lb FT	= 20%F, 11%E
LUMBER- TOP CHORD	2x4 SP No.1(flat)		BRACING- TOP CHORD Structural wood s	heathing directly applied or 5-2-0 oc pur	lins,

BOT CHORD

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

BOT CHORD2x4 SP No.1(flat)WEBS2x4 SP No.3(flat)OTHERS2x4 SP No.3(flat)

REACTIONS. All bearings 5-2-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 8, 7, 9

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.



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L	1-4-0	2-7-12	3-11-8	5-3-8
	1-4-0	1-3-12	1-3-12	1-4-0
Plate Offsets (X,Y)	[11:0-1-8,0-1-8], [12:0-1-8,0-1-8]			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.08 BC 0.01 WB 0.04 Matrix-R	DEFL. in (loc) I/defl Vert(LL) n/a - n/a Vert(CT) n/a - n/a Horz(CT) 0.00 6 n/a	L/d PLATES GRIP 999 MT20 244/190 999 n/a Weight: 24 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

L	U	М	в	E	R
_	-		_	_	

 TOP CHORD
 2x4 SP No.1(flat)

 BOT CHORD
 2x4 SP No.1(flat)

 WEBS
 2x4 SP No.3(flat)

 OTHERS
 2x4 SP No.3(flat)

REACTIONS. All bearings 5-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 8, 7, 9

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 52 lb down at 2-2-12, and 53 lb
- down at 4-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 6-10=-10, 1-5=-100
- Concentrated Loads (lb)
 - Vert: 4=-53(B) 13=-52(B)



Structural wood sheathing directly applied or 5-3-8 oc purlins,

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

except end verticals.

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Job	Truss	Truss Type	Qty	Ply	89 LAKEFOREST TRAIL FLOOR & ROOF
					171269276
J0125-0519	2F1	Floor	10	1	
					Job Reference (optional)
Comtech, Inc, Fayette	ville, NC - 28314,		8	3.630 s Sep	26 2024 MiTek Industries, Inc. Thu Feb 6 13:14:34 2025 Page 1
		ID:ep5_E	G0sxmaxN	75H5YdY	hJzNaDM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
0-1-8					
HI 1-3-0	1-10-	-12			2-4-4
	1				Scale = 1:55.5



 	<u> </u>	33-0-0							
Plate Offsets (X,Y)	[15:0-1-8,Edge], [16:0-1-8,Edge], [32:0-	1-8,Edge], [33:0-1-8,Edge	9]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2021/TPI2014	CSI. TC 0.86 BC 0.81 WB 0.63 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.22 33-34 -0.30 33-34 0.05 20	l/defl >948 >697 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 162 lb	GRIP 244/190 FT = 20%F, 11%E	
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (sizz Max G	² No.1(flat) 2 2400F 2.0E(flat) 2 No.3(flat) e) 36=0-3-8, 28=0-3-8, 20=Mechanica iray 36=842(I C 3) 28=2131(I C 1) 20=	l 2731(I C 4)	BRACING- TOP CHOR BOT CHOR	≀D Structu except ≀D Rigid c	ral wood sl end vertica eiling direc	heathing dire als. tly applied o	ectly applied or 6-0-0 r 6-0-0 oc bracing.	oc purlins,	
FORCES. (lb) - Max. TOP CHORD 19-20 7-9=	Comp./Max. Ten All forces 250 (lb) or D=-2033/0, 2-3=-1737/0, 3-4=-2763/0, 4- -1989/142, 9-10=-481/683, 10-11=0/258 D=-1760/452, 15-16=-2339/68, 16-17=-2 6=0/1045, 34-35=0/2406, 33-34=0/3052, 1=-376/1400, 28-29=-1220/0, 27-28=-14 4=-68/2339, 22-23=-68/2339, 21-22=0/2 =-1308/0, 2-35=0/902, 3-35=-871/0, 3-34 9=0/1319, 9-29=-1271/0, 9-31=0/834, 7- =-391/225, 12-28=-1571/0, 12-27=0/115 5=-1042/0, 18-20=-1139/0, 18-21=0/751 2=-125/322, 16-23=-317/0, 15-24=0/355	less except when shown 5=-3044/0, 5-6=-3044/0, 7, 11-12=0/2587, 12-14=- 241/0, 17-18=-1484/0 32-33=0/3044, 31-32=0/. 78/0, 25-27=-726/1280, 2 036, 20-21=0/908 I=0/464, 4-34=-376/18, 1(31=-863/0, 7-32=0/923, 6 0, 14-27=-1095/0, 14-25= , 17-21=-718/0, 17-22=-8°	6-7=-3044/0, 519/1022, 2584, 4-25=-68/2339, 0-28=-1714/0, -32=-381/0, 0/761, 7/267,						
NOTES- 1) Unbalanced floor liv 2) All plates are 3x4 M 3) Plates checked for a 4) Refer to girder(s) foi 5) Load case(s) 1, 2, 3 they are correct for f 6) Recommend 2x6 str Strongbacks to be a 7) CAUTION, Do not e LOAD CASE(S) Stan 1) Dead + Floor Live (t Uniform Loads (plf)) Vert: 20-36 Concentrated Loads Vert: 19=-1 2) Dead: Lumber Incre	e loads have been considered for this de T20 unless otherwise indicated. a plus or minus 1 degree rotation about in r truss to truss connections. , 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 has/h the intended use of this truss. rongbacks, on edge, spaced at 10-0-0 o ttached to walls at their outer ends or re rect truss backwards. dard balanced): Lumber Increase=1.00, Plate =-10, 1-19=-100 s (lb) 986 ase=1.00, Plate Increase=1.00	esign. Is center. ave been modified. Buildi c and fastened to each tri strained by other means. Increase=1.00	ng designer must uss with 3-10d (0.	review loads to 131" X 3") nails	o verify that	Manna and and and and and and and and and	SEA 0363	AROLINE B22 PEER REPERTUNING 10,2025	

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Job	Truss	Truss Type	Qty	Ply	89 LAKEFOREST TRAIL FLOOR & ROOF	171260276
J0125-0519	2F1	Floor	10	1		1/12092/0
					Job Reference (optional)	
Comtech, Inc, Fayettev	/ille, NC - 28314,			8.630 s Se	p 26 2024 MiTek Industries, Inc. Thu Feb 6 13:14:34 2025	5 Page 2
			ID:ep5_EG0sxma	xN75H5YdY	hJzNaDM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7	J4zJC?f
LOAD CASE(S) Standard						
Liniform Loads (plf)						
Vort: 20.26- 10	1 10- 100					
Concentrated Loads (lb)	, 1-19=-100					
Vert: 19=-1986						
3) 1st Dead + Floor Live (u	nbalanced): Lumber Increase	e=1.00. Plate Increase=1.00				
Uniform Loads (plf)						
Vert: 20-36=-10	, 1-11=-100, 11-19=-20					
Concentrated Loads (lb)						
Vert: 19=-1986						
4) 2nd Dead + Floor Live (u	unbalanced): Lumber Increas	e=1.00, Plate Increase=1.00				
Uniform Loads (plf)						
Vert: 20-36=-10	, 1-11=-20, 11-19=-100					
Concentrated Loads (lb)						
Vert: 19=-1986						
5) 3rd unbalanced Dead: Li	umber Increase=1.00, Plate I	ncrease=1.00				
Uniform Loads (plf)	4 44 400 44 40 00					
Vert: 20-36=-10	, 1-11=-100, 11-19=-20					
Vort: 10- 1086						
6) 4th unbalanced Dead: L	umber Increase-1 00 Plate I	ncrease-1.00				
Uniform Loads (plf)						
Vert: 20-36=-10	. 1-11=-20. 11-19=-100					
Concentrated Loads (lb)						
Vert: 19=-1986						
7) 1st chase Dead + Floor I	Live (unbalanced): Lumber In	crease=1.00, Plate Increase=1.00				
Uniform Loads (plf)						
Vert: 20-36=-10	, 1-6=-100, 6-11=-20, 11-19=	-100				
Concentrated Loads (lb)						
Vert: 19=-1986	Live (webstere et al). Live been					
8) 2nd chase Dead + Floor	Live (unbalanced): Lumber I	ncrease=1.00, Plate Increase=1.00				
Vort: 20.26- 10	1 5- 20 5 10- 100					
Concentrated Loads (lb)	, 1-5=-20, 5-15=-100					
Vert: 19=-1986						
9) 3rd chase Dead + Floor	Live (unbalanced): Lumber Ir	crease=1.00. Plate Increase=1.00				
Uniform Loads (plf)						
Vert: 20-36=-10	, 1-16=-100, 16-19=-20					
Concentrated Loads (lb)						
Vert: 19=-1986						
10) 4th chase Dead + Floor	r Live (unbalanced): Lumber	Increase=1.00, Plate Increase=1.00				
Uniform Loads (plf)	0 4 44 400 44 45 00 45	10 100				
Vert: 20-36=-1	0, 1-11=-100, 11-15=-20, 15-	-19=-100				
Vort: 10-1986	2)					
11) 5th chase Dead: Lumb	er Increase=1 00 Plate Incre	ase=1 00				
Uniform Loads (plf)						
Vert: 20-36=-1	0, 1-6=-100, 6-11=-20, 11-19	9=-100				
Concentrated Loads (Ib)					
Vert: 19=-1986	3					
12) 6th chase Dead: Lumbe	er Increase=1.00, Plate Incre	ase=1.00				
Uniform Loads (plf)						
Vert: 20-36=-1	0, 1-5=-20, 5-19=-100					
Concentrated Loads (Ib	<i>)</i>)					
Vert: 19=-1986) or Incrosco_1 00. Bloto lacas	252-1.00				
Liniform Loads (nlf)	ar increase=1.00, Plate Incre	asc=1.00				
Vert: 20-361	0 1-16=-100 16-19=-20					
Concentrated Loads (Ih))					
Vert: 19=-1986	5					
14) 8th chase Dead: Lumb	er Increase=1.00, Plate Incre	ase=1.00				
Uniform Loads (plf)	,					

Vert: 20-35=-10, 1-11=-100, 11-15=-20, 15-19=-100 Concentrated Loads (lb) Vert: 19=-1986







L	17-6-4			31-6-0				
	17-6-4		13-11-12					
Plate Offsets (X,Y)	[14:0-1-8,Edge], [21:0-1-8,Edge], [29:0-	1-8,Edge], [30:0-1-8,Edge]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.80 BC 0.90 WB 0.63 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.24 30-31 -0.33 30-31 0.05 19	l/defl >864 >635 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 155 lb	GRIP 244/190 FT = 20%F. 11%E
LUMBER- TOP CHORD BRACING- TOP CHORD BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)					tural wood ot end vert ceiling dir	sheathing dire icals. ectly applied o	ectly applied or 6-0-0 o	oc purlins,
REACTIONS.	(size) 33=0-3-8, 25=0-3-8, 19=0-3-8 ax Grav 33=839(LC 3), 25=2068(LC 1), 19=	648(LC 4)						
FORCES. (lb) - M TOP CHORD 2 8 1 BOT CHORD 3	Max. Comp./Max. Ten All forces 250 (lb) or -3=-1731/0, 3-4=-2749/0, 4-5=-3023/0, 5-6= -10=-444/650, 10-11=0/2572, 11-12=0/2572 4-15=-1828/167, 15-16=-1828/167, 16-17=- 12-33=0/1042, 31-32=0/2396, 30-31=0/3039	less except when shown. -3023/0, 6-7=-3023/0, 7-8= 2, 12-13=-371/1082, 13-14= 1255/0 , 29-30=0/3023, 28-29=0/2	=-1959/113, =-1435/519, 553,					
bol CHORD 32-35=0/1042, 31-32=0/2593, 30-31=0/3023, 29-30=0/3023, 29-29=0/2533, 27-28=-345/1367, 25-27=-1205/0, 24-25=-1507/0, 23-24=-791/1055, 22-23=-167/1828, 21-22=-167/1828, 20-21=0/1668, 19-20=0/799 WEBS 2-33=-1304/0, 2-32=0/898, 3-32=-866/0, 3-31=0/460, 4-31=-377/9, 4-30=-396/226, 10-25=-1715/0, 10-27=0/1318, 8-27=-1271/0, 8-28=0/832, 7-28=-853/0, 7-29=0/929, 6-29=-406/0, 12-25=-1466/0, 12-24=0/1056, 13-24=-1010/0, 13-23=0/656, 14-23=-836/0, 17-19=-999/0, 17-20=0/594, 16-20=-538/72, 16-21=-266/204								
NOTES- 1) Unbalanced floo 2) All plates are 3x 3) Plates checked	or live loads have been considered for this do 4 MT20 unless otherwise indicated. for a plus or minus 1 degree rotation about i	esign. ts center.						111111 11111

- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
- Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



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A MiTek Affil 818 Soundside Road Edenton, NC 27932



				10-1-0			
				16-1-8			1
Plate C	offsets (X,Y)	[6:0-1-8,Edge], [14:0-1-8,Edge]					
LOADI TCLL TCDL BCLL BCDL	NG (psf) 40.0 10.0 0.0 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.71 BC 0.71 WB 0.45 Matrix-S	DEFL. in Vert(LL) -0.24 Vert(CT) -0.33 Horz(CT) 0.04	n (loc) l/defl L/d 4 14-15 >781 480 3 14-15 >577 360 4 10 n/a n/a	PLATES MT20 Weight: 80 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBE TOP CI BOT CI WEBS	E R- HORD 2x4 SF HORD 2x4 SF 2x4 SF	P No.1(flat) 2 2400F 2.0E(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di except end verticals. Rigid ceiling directly applied	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
REACT	T IONS. (size Max G	e) 18=0-3-8, 10=Mechanical Grav 18=867(LC 1), 10=873(LC 1)					

16-1-8

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

- TOP CHORD 2-3=-1800/0, 3-4=-2888/0, 4-5=-3227/0, 5-6=-3227/0, 6-7=-2929/0, 7-8=-1797/0
- BOT CHORD 17-18=0/1077, 15-17=0/2501, 14-15=0/3199, 13-14=0/3227, 12-13=0/3227, 11-12=0/2463, 10-11=0/1090

WEBS	2-18=-1349/0, 2-17=0/940, 3-17=-913/0, 3-15=0/504, 4-15=-404/0, 4-14=-199/419,
	8-10=-1368/0, 8-11=0/920, 7-11=-868/0, 7-12=0/690, 6-12=-841/0, 6-13=-70/429

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.



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			12-9-8			
Plate Offsets (X,Y)	[1:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1-	8,Edge]	12-9-8			· · · · · · · · · · · · · · · · · · ·
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.36 BC 0.45 WB 0.31 Matrix-S	DEFL. in Vert(LL) -0.10 Vert(CT) -0.12 Horz(CT) 0.03	l (loc) l/defl L/d 12-13 >999 480 12-13 >999 360 9 n/a n/a	PLATES MT20 Weight: 64 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	P No.1(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 r 10-0-0 oc bracing.	oc purlins,

REACTIONS.	(size)	14=Mechanical, 9=0-3-8
	Max Grav	14=690(LC 1), 9=684(LC 1)

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

TOP CHORD 2-3=-1339/0, 3-4=-2034/0, 4-5=-2034/0, 5-6=-2034/0, 6-7=-1339/0

BOT CHORD 13-14=0/845, 12-13=0/1798, 11-12=0/2034, 10-11=0/1799, 9-10=0/844

WEBS 2-14=-1060/0, 2-13=0/643, 3-13=-598/0, 3-12=0/506, 7-9=-1057/0, 7-10=0/644, 6-10=-598/0, 6-11=0/506

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.



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Job	Truss	Truss Type	Qty	Ply	89 LAKEFOREST TRAIL FLOOR & ROOF	
					17	1269280
J0125-0519	2F2GR	Floor	2	1		
					Job Reference (optional)	
Comtech, Inc, Fayettev	/ille, NC - 28314,		8	630 s Sep	26 2024 MiTek Industries, Inc. Thu Feb 6 13:14:36 2025 Pa	ige 1
-		ID:ep5_E0	30sxmaxN	75H5YdY	nJzNaDM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4z	JC?f
0-1-8						
0-1-0						
H 1-3-0	1-10)-12			<u>2-1-4</u> 0- <u>1</u> -8	
	1				Scale	e = 1:54.4



H	17-6-4		31-6-0					
	17-0-4 13-11-12 17-0-4 0 Educit 100.0 4 0 Educit 100.0 4 0 Educit 104.0 4 0 Educit 104.0 4 0 Educit							
Plate Offsets (X,Y)	[16:0-1-8,Edge], [23:0-1-8,Edge], [30:0-	1-12,Edgej, [33:0-1-8,Ed	gej, [34:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2021/TPI2014	CSI. TC 0.91 BC 0.98 WB 0.49 Matrix-S	DEFL. in Vert(LL) -0.23 Vert(CT) -0.33 Horz(CT) 0.05	n (loc) l/defl 3 34-35 >892 2 34-35 >654 5 21 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 173 lb	GRIP 244/190 FT = 20%F, 11%E	
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz Max C	P No.1(flat) P No.1(flat) P No.3(flat) e) 37=0-3-8, 27=0-3-8, 21=0-3-8 Grav 37=846(LC 3), 27=2890(LC 1), 21=	638(LC 4)	BRACING- TOP CHORD BOT CHORD	Structural wood s except end vertic Rigid ceiling dire	sheathing dir als. ctly applied c	ectly applied or 6-0-0 c or 6-0-0 oc bracing.	oc purlins,	
FORCES. (lb) - Max. TOP CHORD 2-3= 9-11: 16-1 BOT CHORD 36-3 30-3 23-2 WEBS 13-2 WEBS 13-2 4-34 7-33 16-2	Comp./Max. Ten All forces 250 (lb) or -1748/0, 3-4=-2781/0, 4-5=-3076/0, 5-6= -568/637, 11-13=0/2992, 13-14=0/2991 7=-1764/144, 17-18=-1764/144, 18-19= 7=0/1051, 35-36=0/2421, 34-35=0/3081, 1=-293/1590, 27-30=-1194/0, 26-27=-15 4=-144/1764, 22-23=0/1628, 21-22=0/78 7=-389/0, 2-37=-1315/0, 2-36=0/908, 3-3 =-375/235, 11-27=-2202/0, 11-30=0/131 =0/919, 6-33=-407/0, 14-27=-1964/0, 14 5=-831/0, 19-21=-982/0, 19-22=0/579, 13	less except when shown -3076/0, 6-7=-3076/0, 7-1 (1230/0 , 33-34=0/3076, 31-33=0/ 30/0, 25-26=-763/946, 24 36 36=-875/0, 3-35=0/469, 4 7, 9-30=-1323/0, 9-31=0/ -26=0/1037, 15-26=-997/ 8-22=-519/65, 18-23=-25	n. 9=-2132/60, 6=-1345/491, /2634, 4-25=-144/1764, -35=-390/0, 747, 7-31=-770/0, 0, 15-25=0/669, 7/174					
NOTES- 1) Unbalanced floor liv 2) All plates are 3x4 M 3) Plates checked for a 4) Recommend 2x6 st Strongbacks to be a 5) CAUTION, Do not e 6) Hanger(s) or other o Ib down at 18-6-12 7) In the LOAD CASE(LOAD CASE(S) Stan 1) Dead + Floor Live (I) Uniform Loads (plf) Vert: 21-37 Concentrated Loads Vert: 11=-4	e loads have been considered for this de T20 unless otherwise indicated. a plus or minus 1 degree rotation about it rongbacks, on edge, spaced at 10-0-0 o uttached to walls at their outer ends or re- rect truss backwards. connection device(s) shall be provided su on top chord. The design/selection of su S) section, loads applied to the face of th dard balanced): Lumber Increase=1.00, Plate =-10, 1-20=-100 s (lb) 12(B) 40=-412(B)	esign. ts center. to and fastened to each tr strained by other means. ufficient to support concer uch connection device(s) he truss are noted as fror Increase=1.00	russ with 3-10d (0.131" > ntrated load(s) 492 lb do is the responsibility of o nt (F) or back (B).	(3°) nails. wn at 16-3-4, and thers.	492	SEA 0363	ROUL 22 LBERTINI 10,2025	

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		1	8-8-8			
		1	8-8-8			
Plate Offsets (X,Y)	[6:0-1-8,Edge], [18:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.80 BC 0.73	DEFL. ir Vert(LL) -0.32 Vert(CT) -0.44	(loc) I/defl L/d 17 >691 480 17-18 >503 360	PLATES MT20 M18AHS	GRIP 244/190 186/179
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S	Horz(CT) 0.06	13 n/a n/a	Weight: 94 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP	No.1(flat) 2400F 2.0E(flat)		BRACING- TOP CHORD	Structural wood sheathing dire except end verticals.	ectly applied or 2-2-0	oc purlins,
WEBS 2x4 SP	No.3(flat)		BOT CHORD	Rigid ceiling directly applied o	r 10-0-0 oc bracing.	
REACTIONS. (size Max G	e) 22=0-3-8, 13=Mechanical rav 22=1009(LC 1), 13=1015(LC 1)					
FORCES. (Ib) - Max.	Comp./Max. Ten All forces 250 (lb) or	less except when shown.				

- TOP CHORD 2-3=-2162/0, 3-4=-3557/0, 4-5=-4429/0, 5-6=-4429/0, 6-7=-4357/0, 7-8=-3623/0, 8-9=-3623/0, 9-11=-2157/0 BOT CHORD 21-22=0/1265. 19-21=0/3022. 18-19=0/4080. 17-18=0/4429. 16-17=0/4429. 15-16=0/4105.
- WEBS 2-22=-1584/0, 2-21=0/1168, 3-21=-1119/0, 3-19=0/696, 4-19=-680/0, 4-18=0/766, 5-18=-309/0, 11-13=-1594/0, 11-14=0/1153, 9-14=-1109/0, 9-15=0/785, 7-15=-615/0, 7-16=0/541, 6-16=-584/270, 6-17=-337/258

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 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.



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A MiTek Aft 818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	89 LAKEFOREST TRAIL FLOOR & ROOF	
						171269282
J0125-0519	2F3GR	Floor	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayettev	ville, NC - 28314,		8	.630 s Sep	26 2024 MiTek Industries, Inc. Thu Feb 6 13:14:3	7 2025 Page 1
			ID:ep5_EG0sxmaxN	75H5YdYł	nJzNaDM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWr	CDoi7J4zJC?f
0-1-8						
_{ш 1-3-0 1}	1-10	-12			2-1-4	0-1-8
111 1	I					Scale = 1:54.4
1.5x3		1.5x3	4x6 =			1.5x3
1.0.00 11						



l	17-6-4					31-6-0		
Plate Offsets (X,Y)	[16:0-1-8,Edge], [23:0-1-8,Edge], [31:0-1	1-8,Edge], [32:0-1-8,Edge	e]			13-11-12		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2021/TPI2014	CSI. TC 0.70 BC 0.69 WB 0.67 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.23 32-33 -0.32 32-33 0.04 21	l/defl l >900 4 >655 3 n/a i	L/d 80 60 n/a	PLATES MT20 Weight: 161 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	2 2400F 2.0E(flat) 2 2400F 2.0E(flat) 2 No.3(flat)		BRACING- TOP CHOR BOT CHOR	D Structu except D Rigid c	ral wood she end verticals eiling directly	eathing dired s. / applied or	ctly applied or 6-0-0 c 6-0-0 oc bracing.	oc purlins,
Max G	e) 37=0-3-8, 27=0-3-8, 21=0-3-8 irav 37=1200(LC 3), 27=2122(LC 1), 21:	=642(LC 4)						
FORCES. (lb) - Max. TOP CHORD 3-5=- 10-12 16-17 BOT CHORD 35-33 29-30 23-24 WEBS 3-37= 12-22 8-31= 19-2	Comp./Max. Ten All forces 250 (lb) or 2450/0, 5-6=-3293/0, 6-7=-3397/0, 7-8= 2=-523/574, 12-13=0/2615, 13-14=0/261 7=-1790/190, 17-18=-1790/190, 18-19=- 7=0/1681, 33-35=0/3048, 32-33=0/3515, 3=-198/1505, 27-29=-1186/0, 26-27=-155 4=-190/1790, 22-23=0/1645, 21-22=0/79 =-2065/0, 3-35=0/925, 5-35=-788/0, 5-33 7=-1792/0, 12-29=0/1399, 10-29=-1347/(=-464/0, 14-27=-1465/0, 14-26=0/1060, 7 1=-989/0, 19-22=0/586, 18-22=-526/79,	less except when shown .3397/0, 8-9=-3397/0, 9- 5, 14-15=-304/1122, 15- 1240/0 31-32=0/3397, 30-31=0/ 51/0, 25-26=-827/995, 24 0 =-60/318, 6-33=-290/136 0, 10-30=0/903, 9-30=-94 15-26=-1016/0, 15-25=0/ 18-23=-277/186	10=-2151/0, 16=-1383/549, 2814, -25=-190/1790, 5, 6-32=-529/68, 4/0, 9-31=0/1072, 563, 16-25=-845/0	,				
NOTES- 1) Unbalanced floor liv 2) All plates are 3x4 M 3) Plates checked for a 4) Recommend 2x6 str Strongbacks to be a 5) CAUTION, Do not e 6) Hanger(s) or other of chord. The design/s 7) In the LOAD CASE(LOAD CASE(S) Stand 1) Dead + Floor Live (t Uniform Loads (plf) Vert: 21-37: Concentrated Loads Vert: 40=-4	e loads have been considered for this de T20 unless otherwise indicated. a plus or minus 1 degree rotation about it ongbacks, on edge, spaced at 10-0-0 o ttached to walls at their outer ends or res rect truss backwards. connection device(s) shall be provided su selection of such connection device(s) is S) section, loads applied to the face of th dard palanced): Lumber Increase=1.00, Plate =-10, 1-20=-100 ((b) 12(B)	sign. s center. c and fastened to each tr strained by other means. fficient to support concer the responsibility of other the truss are noted as from Increase=1.00	uss with 3-10d (0.1 ntrated load(s) 492 rs. t (F) or back (B).	I31" X 3") nails	1-12 on top	Community and	SEA 0363	L 22 HBERTINI 10,2025

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 			17-3-8				
Plate Offsets (X,Y)	[6:0-3-0,Edge], [7:0-3-0,0-0-0], [12:0-3-0),Edge], [17:0-3-0,Edge],	[23:0-1-8,0-0-8]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2021/TPI2014	CSI. TC 0.74 BC 0.64 WB 0.75 Matrix-S	DEFL. Vert(LL) -0.3 Vert(CT) -0.4 Horz(CT) 0.0	in (loc) 2 18 6 18 7 13	l/defl L/d >631 480 >448 360 n/a n/a	PLATES GRIP MT20 244/190 M18AHS 186/179 Weight: 142 lb FT = 20%F	, 11%E
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP	2 2400F 2.0E(flat) 2 2400F 2.0E(flat) 2 No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structu except Rigid c	ral wood sheathing end verticals. eiling directly applied	directly applied or 6-0-0 oc purlins, d or 10-0-0 oc bracing.	
REACTIONS. (size Max G	e) 22=0-3-8, 13=0-3-8 ray 22=2598(LC 1), 13=2021(LC 1)						
FORCES. (lb) - Max. TOP CHORD 2-3=- 10-17 BOT CHORD 21-22 14-16 WEBS 2-22= 6-18- 8-16=	Comp./Max. Ten All forces 250 (lb) or 6414/0, 3-5=-9621/0, 5-6=-10360/0, 6-7 I=-5025/0 =-0/4025, 19-21=0/9040, 18-19=0/10155 3=0/7279, 13-14=0/2941 =-4838/0, 2-21=0/3021, 3-21=-3200/0, 3- =-258/0, 11-13=-3532/0, 11-14=0/2636, =-1575/0, 8-17=0/782, 7-17=-318/0	less except when shown =-10360/0, 7-8=-10360/0 5, 17-18=0/10360, 16-17= -19=0/720, 5-19=-663/0, 9 10-14=-2746/0, 10-16=0/	, 8-10=-8521/0, =0/9791, 5-18=0/431, 1540,				
NOTES- 1) Unbalanced floor live 2) All plates are MT20 3) The Fabrication Tole 4) Plates checked for a 5) Recommend 2x6 str Strongbacks to be a 6) CAUTION, Do not e 7) Hanger(s) or other c down at 5-1-12, 244 at 13-1.12, and 257 others. 8) In the LOAD CASE(LOAD CASE(S) Stand 1) Dead + Floor Live (b Uniform Loads (plf) Vert: 13-222 Concentrated Loads Vert: 9=-30?	e loads have been considered for this de plates unless otherwise indicated. Plus or minus 1 degree rotation about it ongbacks, on edge, spaced at 10-0-0 o ttached to walls at their outer ends or re- rect truss backwards. onnection device(s) shall be provided su I b down at 7-1-12, 204 lb down at 9-1 Ib down at 15-5-4 on top chord. The d S) section, loads applied to the face of th dard balanced): Lumber Increase=1.00, Plate =-10, 1-12=-100 (lb) 9(F) 4=-177(B) 10=-177(B) 24=-1378(B)	esign. ts center. c and fastened to each tr strained by other means. ufficient to support concer -12, 257 lb down at 11-1: esign/selection of such co ne truss are noted as from Increase=1.00 25=-177(B) 26=-177(B) 2	uss with 3-10d (0.131" -trated load(s) 1458 lb -12, 389 lb down at 11 onnection device(s) is th at (F) or back (B). 27=-177(B) 28=-177(B)	X 3") nails Jown at 3 ·11-12, an 1e respon	s. I-1-12, 257 lb Id 257 lb down sibility of	SEAL 036322	and an an and an



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Job	Tru	uss	Truss Type	Qty	Ply	89 LAKEFOREST TRAIL FLOOR & ROOF
						171269284
J0125-0519	2F	5GR	Floor Girder	1		
						Job Reference (optional)
Comtech, Inc,	Fayetteville	, NC - 28314,		8	.630 s S	p 26 2024 MiTek Industries, Inc. Thu Feb 6 13:14:38 2025 Page 1
	-			~		ALL NU DAL DOOD DOOL ON DE LA ALTYLOUGHLOD COM





L		13-1-4					14-7-0
		13-1-4					1-5-12 '
Plate Offsets (X,Y)	[15:0-1-8,Edge]	i	1				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCodeIRC2021/TPI2014	CSI. TC 0.84 BC 0.72 WB 0.58 Matrix-S	DEFL. ir Vert(LL) -0.25 Vert(CT) -0.34 Horz(CT) 0.03	(loc) l/defl 15-16 >626 15-16 >455 12 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 84 lb	GRIP 244/190 FT = 20%F, 11%E
Brac Offsets (X,Y)- 15:0-1-3, Edga LooDING (rsf) SPACING- Plate Grip DDL 2:0-0 1:0-0 CSI. TC 0.54 Vert(L1) 0.22 field Vert LOADING (rsf) PLATES SPACING- Plate Grip DDL 1:00 TC 0.54 Vert(L1) 0.22 field Vert Vert Vert 0.54 Vert Vert 0.53 Field Vert Vert 0.53 Field Vert Vert 0.53 Field Vert Vert 0.53 Field Vert Vert 0.53 Vert Vert							
REACTIONS. (size Max G	e) 12=Mechanical, 20=0-3-8, 13=0-3-8 irav 12=509(LC 7), 20=814(LC 3), 13=6	3 74(LC 8)					
FORCES. (lb) - Max. TOP CHORD 11-12 9-10- 9-10- BOT CHORD 18-20 WEBS 3-20- 9-14- 9-14-	Comp./Max. Ten All forces 250 (lb) or 2=-472/0, 3-5=-1669/0, 5-6=-2374/0, 6-7 =-552/30, 10-11=-553/29 D=0/1066, 16-18=0/2166, 15-16=0/2497 =-1306/0, 3-18=0/735, 5-18=-643/0, 5-16 =0/1225, 8-14=-548/0, 11-13=-37/697	less except when shown =-2163/0, 7-8=-2163/0, 8 , 14-15=0/2163, 13-14=0/ S=0/271, 6-15=-452/0, 9-1	-9=-2163/0, 1189 I3=-1036/0,				
 NOTES- 1) Unbalanced floor liv 2) All plates are 3x4 M 3) Plates checked for at 4) Refer to girder(s) for 5) Recommend 2x6 str Strongbacks to be at 6) CAUTION, Do not et 7) Hanger(s) or other of chord. The design/s 8) In the LOAD CASE(LOAD CASE(S) Stand 1) Dead + Floor Live (bt 	e loads have been considered for this de T20 unless otherwise indicated. a plus or minus 1 degree rotation about i truss to truss connections. ongbacks, on edge, spaced at 10-0-0 c ttached to walls at their outer ends or re rect truss backwards. connection device(s) shall be provided si selection of such connection device(s) is S) section, loads applied to the face of the dard balanced): Lumber Increase=1.00, Plate	esign. ts center. c and fastened to each tr strained by other means. ufficient to support concer the responsibility of othe ne truss are noted as fron Increase=1.00	uss with 3-10d (0.131" X ntrated load(s) 170 lb dou rs. It (F) or back (B).	3") nails. wn at 2-1-12 on to	op	PROFESSO SEA	AROUNING SIGNAL
Uniform Loads (olf) Vert: 12-20 Concentrated Loads Vert: 22=-9	=-10, 1-11=-100 ; (lb) 0(F)				III WAR	0363	IEER CAN



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		10-9-12					12-3-8
Plate Offsets (X,Y)	[1:Edge,0-1-8], [9:Edge,0-1-8], [11:0-1-4	3,Edge], [12:0-1-8,Edge]					1012
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.52 BC 0.54 WB 0.40 Matrix-S	DEFL. in Vert(LL) -0.12 Vert(CT) -0.16 Horz(CT) 0.02	n (loc) l/defl 12-13 >999 12-13 >818 9 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 64 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4 WEBS 2x4 REACTIONS. ((\$	SP No.1(flat) SP No.1(flat) SP No.3(flat) ize) 9=Mechanical, 14=Mechanical, 10=	-0-3-8	BRACING- TOP CHORD BOT CHORD	Structural wood except end verti Rigid ceiling dire	sheathing dir cals. ectly applied c	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
Max	Grav 9=322(LC 7), 14=593(LC 3), 10=80	5(LC 8)					
FORCES. (lb) - Ma TOP CHORD 8-9 7-8 BOT CHORD 13 WEBS 2-1	x. Comp./Max. Ten All forces 250 (lb) or =-306/145, 2-3=-1113/0, 3-4=-1437/0, 4-5 =-330/253 14=0/721, 12-13=0/1435, 11-12=0/1437, 4=-904/0, 2-13=0/511, 3-13=-418/0, 6-10-	less except when shown. =-1437/0, 5-6=-1437/0, 6-7= 10-11=0/726 =-828/0, 6-11=0/836, 5-11=-3	-330/253, 340/0,				
8-1 NOTES- 1) Unbalanced floor	0=-318/416	acian					

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 9.
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.



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⊢			5-2-0			
Plate Offsets (X,Y)	[1:Edge.0-1-8], [2:0-1-8.Edge], [3:0-1-8,	Edge]. [9:0-1-8.0-1-8]	5-2-0			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.14	Vert(LL) -0.01	7 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.11	Vert(CT) -0.01	7 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00) 5 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S	- (-)		Weight: 28 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP	PNo.1(flat)		BRACING- TOP CHORD	Structural wood sheathing dir	rectly applied or 5-2-0	oc purlins,
WEBS 2x4 SP	P No.3(flat)		BOT CHORD	Rigid ceiling directly applied of	or 10-0-0 oc bracing.	
REACTIONS. (size Max G	e) 8=Mechanical, 5=0-3-8 rav 8=270(LC 1), 5=264(LC 1)					
FORCES. (Ib) - Max.	Comp./Max. Ten All forces 250 (lb) or	less except when shown.				

TOP CHORD 2-3=-294/0

BOT CHORD 7-8=0/294, 6-7=0/294, 5-6=0/294

WEBS 2-8=-363/0, 3-5=-360/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Refer to girder(s) for truss to truss connections.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



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BOT CHORD 7-8=0/307, 6-7=0/307, 5-6=0/307

WEBS 2-8=-376/0, 3-5=-379/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Refer to girder(s) for truss to truss connections.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



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Vert: 1=-960(F) 11=-915(F) 12=-921(F)



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TOP CHORD

BOT CHORD

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-	~ -	~ ~		~	

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

REACTIONS. (size) 8=Mechanical, 5=Mechanical Max Grav 8=190(LC 1), 5=190(LC 1)

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

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Refer to girder(s) for truss to truss connections.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Structural wood sheathing directly applied or 3-8-8 oc purlins,

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

except end verticals.

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NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 1-0-4 to 5-5-1, Interior(1) 5-5-1 to 17-4-8, Exterior(2R) 17-4-8 to 21-9-5, Interior(1) 21-9-5 to 33-8-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 135.0lb AC unit load placed on the bottom chord, 17-4-8 from left end, supported at two points, 4-0-0 apart.

4) All plates are 4x6 MT20 unless otherwise indicated.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 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.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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February 10,2025

ENGINEERING BY RENCO A MITEK Atfiliate 818 Soundside Road

Edenton, NC 27932

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A. GILBER

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LUMBER-				BRACING-	0			line allower line de accorde	
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.07	12	>999	240	Weight: 229 lb	FT = 25%
BCLL	10.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.57 WB 0.28	Vert(CT) -0.35 Horz(CT) 0.05	9-12	>999 n/a	240 n/a		

tructural wood sheathing directly applied, except TOP CHORD 2x6 SP No.1 BOT CHORD 2-0-0 oc purlins (6-0-0 max.): 4-5. WFBS 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied. WEDGE Left: 2x4 SP No.1 , Right: 2x4 SP No.1

REACTIONS. (size) 1=0-3-8, 8=0-3-8 Max Horz 1=234(LC 9) Max Uplift 1=-49(LC 12), 8=-49(LC 13) Max Grav 1=1688(LC 19), 8=1687(LC 20)

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

- 1-2=-2189/280, 2-4=-1989/319, 4-5=-1277/329, 5-7=-1994/340, 7-8=-2191/291 TOP CHORD
- BOT CHORD 1-12=-194/1872, 9-12=-35/1344, 8-9=-138/1697
- WEBS 2-12=-375/252, 4-12=-70/904, 5-9=-73/901, 7-9=-374/253

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 1-0-4 to 5-5-1, Interior(1) 5-5-1 to 15-9-4, Exterior(2E) 15-9-4 to 18-11-12, Exterior(2R) 18-11-12 to 25-2-7, Interior(1) 25-2-7 to 33-8-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 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.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1 and 49 lb uplift at ioint 8.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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818 Soundside Road

February 10,2025

818 Soundside Road

Edenton, NC 27932

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Max Horz 1=176(LC 9) Max Uplift 1=-45(LC 12), 7=-45(LC 13) Max Grav 1=1058(LC 19), 7=1058(LC 20)

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

TOP CHORD 1-3=-1411/225, 3-4=-1436/392, 4-5=-1437/392, 5-7=-1411/225

BOT CHORD 1-10=-119/1230, 8-10=-21/787, 7-8=-102/1112

WEBS 4-8=-174/791, 5-8=-268/253, 4-10=-174/791, 3-10=-268/253

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0 to 4-4-13, Interior(1) 4-4-13 to 11-0-0, Exterior(2R) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 22-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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818 Soundside Road Edenton, NC 27932

February 10,2025

and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	89 LAKEFOREST TRAIL FLOOR & ROOF
					171269304
J0125-0519	C1GR	COMMON GIRDER	1	2	
				J	Job Reference (optional)
Comtech, Inc., Fayetteville, NC 2	8309			8	630 s Aug 30 2023 MiTek Industries, Inc. Mon Feb 10 17:25:14 2025 Page 2
		ID:e	ep5_EG0s	kmaxN75F	I5YdYhJzNaDM-LOQr5fiY5q3_I1IODirbeK4uOQzI4t3I0usp84zmf3p

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, 9-12=-20

Concentrated Loads (lb)

Vert: 7=-1260(F) 15=-1260(F) 16=-1260(F) 17=-1260(F) 18=-1260(F) 20=-1260(F) 22=-1260(F) 23=-1260(F) 24=-1260(F) 25=-1260(F) 2

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		0-10-8	7-9-0	1	10-0-0		16	6-10-8	17-9-0	L
		0-10-8	6-10-8	1	2-3-0		6	-10-8	0-10-8	1
Plate Off	sets (X,Y)	[1:0-1-13,0-0-9], [1:0-5-8	,Edge], [4:0-1-	13,0-4-9], [4:0-5-8,Edge]						
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.01 7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02 7-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.01 4	n/a	n/a		
BCDL	10.0	Code IRC2021/T	PI2014	Matrix-AS	Wind(LL)	0.01 7-9	>999	240	Weight: 113 lb	FT = 25%

 LUMBER-TOP CHORD
 BRACING-TOP CHORD

 BOT CHORD
 2x6 SP No.1

 WEBS
 2x4 SP No.2

 WEDGE
 BOT CHORD

Left: 2x4 SP No.1 , Right: 2x4 SP No.1

REACTIONS. (size) 1=0-3-8, 4=0-3-8 Max Horz 1=106(LC 11) Max Uplift 1=-15(LC 12), 4=-15(LC 13) Max Grav 1=649(LC 1), 4=649(LC 1)

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

TOP CHORD 1-2=-716/179, 2-3=-500/219, 3-4=-718/182

BOT CHORD 1-7=-68/501, 5-7=-69/499, 4-5=-50/502

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 1-0-4 to 5-5-1, Interior(1) 5-5-1 to 7-9-0, Exterior(2E) 7-9-0 to 10-0-0, Exterior(2R) 10-0-0 to 16-2-11, Interior(1) 16-2-11 to 16-8-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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	0-10-8	<u>5-9-0</u> 4-10-8				<u>12-0-0</u> 6-3-0					<u>16-10-8</u> 4-10-8	<u>17-9-0</u> 0-10-8
Plate Offs	sets (X,Y)	[1:0-1-13,0-0-9], [1:0-5-8	,Edge], [4:0-1-1	3,0-4-9], [4:	0-5-8,Edge]						1	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	тс	0.18	Vert(LL)	-0.02	5-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.05	5-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2021/TF	PI2014	Matri	k-AS	Wind(LL)	0.01	5-7	>999	240	Weight: 110 lb	FT = 25%
LUMBER	!-					BRACING-						

TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x6 SP No.1		2-0-0 oc purlins (6-0-0 max.): 2-3.
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEDGE			

Left: 2x4 SP No.1 , Right: 2x4 SP No.1

REACTIONS. (size) 1=0-3-8, 4=0-3-8 Max Horz 1=74(LC 9) Max Uplift 1=-4(LC 12), 4=-4(LC 13) Max Grav 1=649(LC 1), 4=649(LC 1)

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

TOP CHORD 1-2=-780/198, 2-3=-579/225, 3-4=-779/192

BOT CHORD 1-7=-108/582, 5-7=-94/579, 4-5=-91/582

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 1-0-4 to 5-5-1, Interior(1) 5-5-1 to 5-9-0, Exterior(2E) 5-9-0 to 16-8-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum

7) This truss design requires that a minimum of 776 structural wood sheatining be applied directly to the top choice and 1/2 gyps a sheetrock be applied directly to the bottom chord.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Scale = 1:29.9

0-10-8	<u>3-7-8</u> 2-9-0	<u>8-10-8</u> 5-3-0		<u>14-1-8</u> 5-3-0	<u> </u>
Plate Offsets (X,Y)	[1:0-1-13,0-0-9], [1:0-4-4,0-11-3], [5:0-	1-13,0-4-9], [5:0-4-4,0-2-0]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2021/TPI2014	CSI. TC 0.08 BC 0.14 WB 0.09 Matrix-MS	DEFL. ii Vert(LL) -0.02 Vert(CT) -0.03 Horz(CT) 0.03 Wind(LL) 0.02	n (loc) l/defl L/d 2 8 >999 360 3 8 >999 240 1 5 n/a n/a 2 8 >999 240	PLATES GRIP MT20 244/190 Weight: 225 lb FT = 25%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x4 SP WEDGE Left: 2x4 SP No.1 , Rig	2 No.1 No.1 2 No.2 ht: 2x4 SP No.1		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing 2-0-0 oc purlins (6-0-0 ma Rigid ceiling directly appli	g directly applied or 6-0-0 oc purlins, except ax.): 2-4. ied or 10-0-0 oc bracing.
REACTIONS. (size Max H Max U Max G	a) 1=0-3-8, 5=0-3-8 orz 1=40(LC 28) plift 1=-232(LC 5), 5=-232(LC 4) rav 1=787(LC 1), 5=787(LC 1)				THE CARO
FORCES. (lb) - Max. TOP CHORD 1-2=- BOT CHORD 1-9=- WEBS 2-8=-	Comp./Max. Ten All forces 250 (lb) c 930/336, 2-3=-1351/476, 3-4=-1351/47 287/720, 8-9=-287/718, 6-8=-253/718, 246/706, 3-8=-399/207, 4-8=-246/706	r less except when shown. '6, 4-5=-930/337 5-6=-252/720			SEAL 036322
 NOTES- 1) 2-ply truss to be con Top chords connect Bottom chords conn Webs connected as 2) All loads are conside ply connections have 3) Unbalanced roof live 4) Wind: ASCE 7-16; W MWFRS (envelope); 5) Provide adequate dr 6) This truss has been will fit between the b 8) Provide mechanical 1=232, 5=232. 9) Graphical purlin repring 10) Hanger(s) or other 3-7-8, 71 lb down a 52 lb up at 10-10-6 and 98 lb up at 3-7-18 lb down and 15 	nected together with 10d (0.131"x3") n ed as follows: 2x6 - 2 rows staggered a ected as follows: 2x6 - 2 rows staggered follows: 2x4 - 1 row at 0-9-0 oc. ered equally applied to all plies, except e been provided to distribute only loads e loads have been considered for this d ult=130mph (3-second gust) Vasd=100 ; cantilever left and right exposed ; Lun ainage to prevent water ponding. designed for a 10.0 psf bottom chord li n designed for a live load of 30.0psf on ottom chord and any other members. connection (by others) of truss to bear resentation does not depict the size or connection device(s) shall be provided and 52 lb up at 4-10-8, 71 lb down and 3, and 71 lb down and 52 lb up at 12-17-8, 18 lb down and 15 lb up at 4-10-8 lb up at 10-10-8, and 18 lb down and	ails as follows: t 0-9-0 oc. d at 0-9-0 oc. if noted as front (F) or back (f noted as (F) or (B), unless o esign. 3mph; TCDL=6.0psf; BCDL=6 ber DOL=1.60 plate grip DOI ve load nonconcurrent with a the bottom chord in all areas ng plate capable of withstanc the orientation of the purlin al sufficient to support concent 52 lb up at 6-10-8, 71 lb dow 0-8, and 66 lb down and 56 ll 18 lb down and 15 lb up at (15 lb up at 12-10-8, and 86 ll	B) face in the LOAD (therwise indicated. 3.0psf; h=15ft; Cat. II; L=1.60 ny other live loads. where a rectangle 3- ling 100 lb uplift at joi ong the top and/or bc rated load(s) 66 lb do vn and 52 lb up at 8- o up at 14-1-8 on top 5-10-8, 18 lb down ar o down and 98 lb up a	CASE(S) section. Ply to Exp C; Enclosed; -6-0 tall by 2-0-0 wide nt(s) except (jt=lb) ottom chord. wm and 56 lb up at 10-8, 71 lb down and o chord, and 86 lb down id 15 lb up at 8-10-8, at 14-0-12 on bottom	A. GILBERT
chord. The design	/selection of such connection device(s)	is the responsibility of others			February 10,2025

COMAD GASE (S) geStandard

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Job	Truss	Truss Type	Qty	Ply	89 LAKEFOREST TRAIL FLOOR & ROOF	
						171269307
J0125-0519	D3GR	Hip Girder	1	2		
				_	Job Reference (optional)	
Comtech. Inc. Favett	ville, NC - 28314.		. 8	.630 s Ser	26 2024 MiTek Industries, Inc. Thu Feb 6 13:14:51 2025	Page 2

ID:ep5_EG0sxmaxN75H5YdYhJzNaDM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 2-12=-60, 2-4=-60, 4-16=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 2=-8(B) 4=-8(B) 9=-86(B) 8=-9(B) 3=-8(B) 6=-86(B) 18=-8(B) 19=-8(B) 20=-8(B) 21=-8(B) 22=-9(B) 23=-9(B) 24=-9(B) 25=-9(B) 2

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February 10,2025

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 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=131, 6=131.

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			20	-0-7						
Plate Offsets (X,Y)	[13:0-2-8,0-3-0]									
OADING (psf)	SPACING- 2-	-0-0 CSI .		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL 1	1.15 TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
CDL 10.0	Lumber DOL 1	1.15 BC	0.02	Vert(CT)	n/a	-	n/a	999		
CLL 0.0 *	Rep Stress Incr Y	YES WB	0.08	Horz(CT)	0.00	11	n/a	n/a		
CDL 10.0	Code IRC2021/TPI20	014 Matrix	k-S						Weight: 106 lb	FT = 25%
JMBER-		·		BRACING-						
OP CHORD 2x4 SF	P No.1			TOP CHOR	D	Structu	ral wood	sheathing dir	rectly applied or 6-0-0 o	oc purlins.
OT CHORD 2x4 SE	P No 1			BOT CHOR	D	Rigid ce	eilina dire	ctly applied o	or 10-0-0 oc bracing	-

20-0-7

BOT CHORD

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

REACTIONS. All bearings 20-0-7

2x4 SP No.2

(lb) -Max Horz 1=-152(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 17, 18, 19, 20, 15, 14, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 18, 19, 20, 15, 14, 13, 12

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

NOTES-

OTHERS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 10-0-3, Exterior(2R) 10-0-3 to 14-5-0, Interior(1) 14-5-0 to 19-6-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 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.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 17, 18, 19, 20, 15, 14, 13, 12.

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6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=108, 6=108.

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818 Soundside Road

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818 Soundside Road

Max Grav 1=153(LC 1), 3=153(LC 1), 4=257(LC 1)

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

NOTES-

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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¹⁾ Unbalanced roof live loads have been considered for this design.

		3-1	1-14	0-0-9	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code. IBC2021/TPI2014	CSI. TC 0.04 BC 0.02 WB 0.01 Matrix-P	DEFL.in(loc)l/deVert(LL)n/a-nVert(CT)n/a-nHorz(CT)0.003n	efi L/d PLATES G /a 999 MT20 2 /a 999 /a n/a Weight: 12 lb	RIP 44/190 FT = 25%
LUMBER-			BRACING-		

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

REACTIONS. (size) 1=3-11-5, 3=3-11-5, 4=3-11-5 Max Horz 1=-25(LC 8)

Max Uplift 1=-10(LC 12), 3=-13(LC 13)

Max Grav 1=66(LC 1), 3=66(LC 1), 4=111(LC 1)

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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818 Soundside Road Edenton, NC 27932

Structural wood sheathing directly applied or 4-0-7 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Max Grav 1=192(LC 1), 3=192(LC 1), 4=246(LC 1)

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

NOTES-

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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¹⁾ Unbalanced roof live loads have been considered for this design.

Max Uplift 1=-23(LC 13), 3=-23(LC 13) Max Grav 1=127(LC 1), 3=127(LC 1), 4=163(LC 1)

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

NOTES-

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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¹⁾ Unbalanced roof live loads have been considered for this design.

BOT CHORD

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

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 SP No.2

REACTIONS. (size) 1=3-2-3, 3=3-2-3, 4=3-2-3

Max Horz 1=-30(LC 8)

Max Uplift 1=-11(LC 13), 3=-11(LC 13)

Max Grav 1=62(LC 1), 3=62(LC 1), 4=80(LC 1)

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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F	0-10-8			6-4-8		
	0-10-8			5-6-0		
Plate Offsets (X,Y) [[1:0-10-7,0-2-0], [1:0-0	0-0,0-1-4]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2021	2-0-0 - 1.15 - 1.15 r YES 1/TPI2014	CSI. TC 0.21 BC 0.13 WB 0.00 Matrix-AS	DEFL. in (loc) l/defl Vert(LL) 0.02 3-8 >999 Vert(CT) -0.01 3-8 >999 Horz(CT) -0.00 3 n/a	L/d PL/ 240 MT 240 n/a We	ATES GRIP 20 244/190 ight: 27 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

REACTIONS. (size) 1=0-3-8, 3=0-1-8 Max Horz 1=50(LC 8) Max Uplift 1=-103(LC 8), 3=-87(LC 8) Max Grav 1=287(LC 1), 3=205(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. BOT CHORD 1-3=-281/143

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 6-1-12 zone; cantilever left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 1=103.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

TOP CHORD

BOT CHORD

REACTIONS.

OTHERS

Max Horz 1=72(LC 8) Max Uplift 1=-150(LC 8), 3=-127(LC 8) Max Grav 1=287(LC 1), 3=205(LC 1)

(size) 1=0-3-8, 3=0-1-8

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-180/366

BOT CHORD 1-3=-426/143

2x4 SP No.1

2x6 SP No.1

2x4 SP No.2 *Except* 2-3: 2x6 SP No.1

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 4-4-13, Exterior(2N) 4-4-13 to 6-1-12 zone; cantilever left exposed porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
- Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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. 6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=150. 3=127.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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1 IULO OII3613 (X, T)	[1.0 10 7,0 2 0], [1.0-0-0,0-1-4]		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.11 BC 0.06 WB 0.00 Matrix-AS	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) 0.00 8 >999 240 MT20 244/190 Vert(CT) -0.00 3-8 >999 240 MT20 244/190 Horz(CT) -0.00 3 n/a n/a Weight: 21 lb FT = 25%
LUMBER- TOP CHORD 2x4 SF	P No.1		BRACING- TOP CHORD Structural wood sheathing directly applied.

BOT CHORD

Rigid ceiling directly applied.

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1OTHERS2x6 SP No.1

REACTIONS. (size) 1=0-3-8, 3=0-1-8 Max Horz 1=38(LC 8) Max Uplift 1=-82(LC 8), 3=-62(LC 8) Max Grav 1=229(LC 1), 3=143(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.

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Structural wood sheathing directly applied or 1-6-7 oc purlins.

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

Scale = 1:10.5

' 1-2-0 ' 0-4-7 '						
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.15	TC 0.01	Vert(LL) 0.00 5 >999 360	MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00 5 >999 240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) -0.00 3 n/a n/a		
BCDL	10.0	Code IRC2021/TPI2014	Matrix-MP	Wind(LL) -0.00 5 >999 240	Weight: 7 lb FT = 25%	

BRACING-TOP CHORD

BOT CHORD

1-6-7

1-2-0

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8

Max Horz 5=33(LC 12)

Max Uplift 3=-13(LC 21), 4=-128(LC 1)

Max Grav 3=2(LC 10), 5=260(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=128.

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TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-4-15

Max Horz 5=76(LC 8)

Max Uplift 3=-49(LC 8), 4=-48(LC 21), 5=-167(LC 8) Max Grav 3=68(LC 1), 4=13(LC 3), 5=117(LC 38)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope); cantilever left and right exposed ; 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=167.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 34 lb down and 95 lb up at 2-3-2, and 34 lb down and 95 lb up at 2-3-2 on top chord, and 156 lb up at 2-3-2, and 156 lb up at 2-3-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

- Uniform Loads (plf)
 - Vert: 1-3=-60, 4-6=-20

Concentrated Loads (lb)

Vert: 9=70(F=35, B=35) 10=181(F=91, B=91)

Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

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