













FIRST FLOOR OPENING SCHEDULE						
PRODUCT CODE	SIZE	HINGE	COUNT			
36X80 COLONIAL A 1	3'-0"	R	1			
60X80 FRENCH A 2	5'-0"	RN	1			
192X84 - 8 PANEL - 4 WINDOW	16'-0"	U	1			
2-0 Door Unit	2'-0"	R	1			
2-4 Door Unit	2'-4"	R	1			
2-4 Door Unit	2'-4"	L	1			
2-6 Door Unit	2'-6"	R	2			
2-8 Door Unit	2'-8"	L	1			
3-0 Doublehung Door Unit	3'-0"	LR	1			
28X32 single	2'-8" x 3'-2"	N	1			
28x52 single	2'-8" x 5'-2"	N	1			
28x52 triple	8'-0" x 5'-2"	NA	1			

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ingle	2'-8" x 5'-2"	Ν	1
riple	8'-0" x 5'-2"	NA	1
Áre	<b>a</b> s		
	40		
First Floor	10	063	3
Second Flo	or	1344	4
	===	:====:	:=
÷		~ ~ ~	<b></b>
Iotal Heate	a	240	
Garage		46	51

Front Porch 128 Covered Porch 144 Optionag Garage 257



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SECOND FLOOR OPENING SCHEDULE						
PRODUCT CODE	SIZE	HINGE	COUNT			
1-6 Door Unit	1'-4"	R	1			
2-0 Door Unit	2'-0"	R	1			
2-4 Door Unit	2'-4"	R	1			
2-4 Door Unit	2'-4"	L	2			
2-6 Door Unit	2'-6"	R	2			
2-6 Door Unit	2'-6"	L	1			
2-8 Door Unit	2'-8"	R	2			
3-0 Doublehung Door Unit	3'-0"	LR	2			
20x32 single	2'-0" x 3'-2"	N	2			
28x52 single	2'-8" x 5'-2"	Ν	5			
28x52 triple	8'-0" x 5'-2"	NA	1			

DATE: 7/15/2021	REVIGED	DRAWING*
.4"	37	Ē
SCALE: 1/-	DRAWN B	APPROVI

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truss delivery package or online @ sbcindustry.com



Trenco RE: J0322-1265 818 Soundside Rd Lot 2 Cypress Road Edenton, NC 27932 Site Information: Customer: Benjamin Stout Real Estate Project Name: J0322-1265 Lot/Block: 2 Model: Ashville Model: Ashville Address: Cypress Road Subdivision: Cypress Road City: Fayetteville State: NC 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 21 individual, dated Truss Design Drawings and 0 Additional Drawings. No. Seal# Truss Name Date No. Seal# Truss Name Date E16391025 11/9/2021 A1 21 E16391045 V5 11/9/2021 1 2 E16391026 A1GE 11/9/2021 3 E16391027 A2 11/9/2021 4 E16391028 A3 11/9/2021

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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.

A3GE

B1-GR

B1GE

C1-GR

C1GE

D1GE

M1GE

B1

C1

D1

M1

PΒ

V1

V2

V3

V4

Truss Design Engineer's Name: Gilbert, Eric

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E16391029

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E16391033

E16391034

E16391035

E16391036

E16391037

E16391038

E16391039

E16391040

E16391041

E16391042

E16391043 E16391044

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.



Gilbert, Eric

November 09, 2021

Job	Truss	Truss Type	Qty	Ply Lo	ot 2 Cypress Road	
10222 1265	A.1					E16391025
50322-1265		FIGGTBACK BASE	4	J	ob Reference (optional)	
Comtech, Inc, Fag	yetteville, NC - 28314,		8 ID: I6aSr?ɑB6etazEvf	3.430 s Aug 16 6hKRSk7zPT2	6 2021 MiTek Industries 7 -Mandol IM7FoTIN24	, Inc. Mon Nov 8 13:12:28 2021 Page 1 GPTwDRWQD5Mu8NN4.I809sp6vLENX
	-0-11-0 8-5-1	2	16-5-12		24-11-8	<u>25-10-8</u>
	0-11-0 8-5-1	2	8-0-0		8-5-12	0-11-0
		6x6 =		6x6 =		Scale = 1:54.9
		3 1 <sub>2</sub>	⊠ ⊠ <sup>13</sup>	4		_
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					$\backslash$	
	12.00 12					
5						19
<del>6</del>	11				14	မ စ
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-0- 8-		8	Le la	0		6   <del>6</del>     <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>6</del>   <del>1</del>   <del>1</del>
	16	0	8	7	17	<u>8</u> / 1, 14,
	4x8	9 2x4	4x6 =	7 2x4		4x8
		241 11		2.81 11		
	8-5-1	2	16-5-12 8-0-0		24-11-8	
Plate Offsets (X,Y)	[3:0-3-8,0-3-0], [4:0-3-8,0-3-0	]			0012	
LOADING (psf)	SPACING- 2-	0-0 <b>CSI</b> .	DEFL.	in (loc) l/c	defl I/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1	.15 TC 0.43	Vert(LL) -0.1	5 5-7 >9	999 360	MT20 244/190
TCDL 10.0 BCU 0.0 *	Lumber DOL 1 Rep Stress Incr	.15 BC 0.46 /FS WB 0.15	Vert(CT) -0.20	0    5-7   >9 2       5	999 240 n/a n/a	
BCDL 10.0	Code IRC2015/TPI20	14 Matrix-S	Wind(LL) 0.1	9 2-9 >9	999 240	Weight: 167 lb FT = 20%
LUMBER-	1		BRACING-		I	
TOP CHORD 2x6 S	P No.1		TOP CHORD	Structural	wood sheathing direct	ly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 S WEBS 2x4 S	P No.1 P No.2		BOT CHORD	2-0-0 oc pı Riaid ceilir	urlins (6-0-0 max.): 3- ng directly applied or 1	4. 0-0-0 oc bracing.
WEDGE				0	0 7 11	Ū.
Left: 2x4 SP No.2 , Ri	gnt: 2x4 SP No.2					
REACTIONS. (siz	ze) 2=0-3-8, 5=0-3-8					
Max I Max I	Jplift 2=223(LC 11)	13)				
Max 0	Grav 2=1309(LC 2), 5=1309(L	C 2)				
FORCES. (lb) - Max	. Comp./Max. Ten All forces	250 (lb) or less except when show	m.			
TOP CHORD 2-3=	-1465/308, 3-4=-908/350, 4-5	=-1465/308				
WEBS 3-9=	= 36/930, 7-9=-33/938, 5-7=-33 = 0/653, 4-7=0/653	/928				
NOTES						
1) Unbalanced roof liv	e loads have been considered	for this design.				
2) Wind: ASCE 7-10; 7	Vult=130mph Vasd=103mph;	CDL=6.0psf; BCDL=6.0psf; h=15	ft; Cat. II; Exp C; Enclose	d; MWFRS (e	envelope)	
16-5-12 to 22-8-7, I	nterior(1) 22-8-7 to 25-8-14 zo	ne;C-C for members and forces &	MWFRS for reactions sh	io 16-5-12, E iown; Lumber	r DOL=1.60	
plate grip DOL=1.6	0					and the second second
<ul><li>4) This truss has been</li></ul>	indinage to prevent water pond to designed for a 10.0 psf botto	ing. n chord live load nonconcurrent wi	ith any other live loads.			CARCAR
5) * This truss has bee	en designed for a live load of 3	0.0psf on the bottom chord in all a	reas where a rectangle 3	-6-0 tall by 2-	-0-0 wide	
<ul> <li>6) Provide mechanica</li> </ul>	bottom chord and any other m I connection (by others) of trus	empers, with BCDL = 10.0psr. s to bearing plate capable of withs	standing 100 lb uplift at ioi	int(s) 2, 5,		in 11 m
7) Graphical purlin rep	presentation does not depict th	e size or the orientation of the purl	in along the top and/or bo	ottom chord.		
						EAL SEAL
						086322
					۳ <u>۲</u>	A CANES CONT
						A GILESS
						CHARLE COURSE

November 9,2021





13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

🛕 WARNING - Verify design pa neters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Construints - Strange delivery design parameters and READ NOTES ON THIS AND INCLODED INTERFERENCE PAGE MIT-1473 BIV 5192/2021 BEFORE DSE. 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 is 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 russ systems, see ANS/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 November 9,2021





November 9,2021





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Edenton, NC 27932

November 9,2021



Edenton, NC 27932



November 9,2021







Plate Offsets (X,Y)	[2:0-9-12,0-1-4], [6:0-9-12,0-1-4], [7:Edg	ge,0-3-0], [8:0-5-0,0-2-0],	[10:0-5-0,0-2-0]				
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 IRC2015/TPI2014	<b>CSI.</b> TC 0.72 BC 0.76 WB 0.38 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.29 8-10 -0.39 8-10 0.02 7 0.01 10	I/defi L/d >905 360 >666 240 n/a n/a >999 240	PLATES MT20 Weight: 801 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x10 S BOT CHORD 2x10 S 8-10: 2 WEBS 2x6 SF 4-11: 2	SP 2400F 2.0E SP No.1 *Except* 2x6 SP No.1 P No.1 *Except* 2x4 SP No.2		BRACING- TOP CHORE BOT CHORE JOINTS	D Structo D Rigid o 1 Brac	ural wood sheathing di ceiling directly applied ce at Jt(s): 11	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins.
REACTIONS. (siz Max H Max C	e) 1=0-4-0, 7=0-4-0 lorz 1=271(LC 5) Jrav 1=9588(LC 14), 7=9573(LC 14)						
FORCES.         (lb) - Max.           TOP CHORD         1-2=           BOT CHORD         1-10           WEBS         6-8=	Comp./Max. Ten All forces 250 (lb) or -10113/0, 2-3=-4213/35, 3-4=-19/3638, 4 =0/5656, 8-10=0/5720, 7-8=0/5656 0/8207, 2-10=0/8177, 3-11=-11296/4, 5-	less except when shown I-5=-20/3649, 5-6=-4203/ 11=-11296/4, 4-11=0/835	35, 6-7=-10124/0				
NOTES- 1) 3-ply truss to be cor Top chords connect Bottom chords conne Webs connected as 2) All loads are consid ply connections haw 3) Unbalanced roof liw 4) Wind: ASCE 7-10; \ Lumber DOL=1.60 [ 5) Concentrated loads MWFRS Wind (Pos Left; #7 Dead + 0.6 MWFRS Wind (Pos (Pos. Internal) 4th F 2nd Parallel; #20 DD Live (bal.) + 0.75 At 0.75(0.6 MWFRS W Int) 2nd Parallel;	anected together with 10d (0.131"x3") na ed as follows: 2x10 - 2 rows staggered a tected as follows: 2x10 - 5 rows staggered follows: 2x6 - 2 rows staggered at 0-9-0 ered equally applied to all plies, except ii e been provided to distribute only loads e loads have been considered for this de dulte130mph Vasd=103mph; TCDL=6.0p blate grip DOL=1.60 from layout are not present in Load Cas . Internal) Left; #5 Dead + 0.6 MWFRS V MWFRS Wind (Neg. Internal) Right; #8 . Internal) 2nd Parallel; #10 Dead + 0.6 M arallel; #12 Dead + 0.6 MWFRS Wind (Neg. du + 0.75 Roof Live (bal.) + 0.75 Attic F tic Floor + 0.75(0.6 MWFRS Wind (Neg. find (Neg. Int) 1st Parallel); #23 Dead + 0.6	ils as follows: tt 0-9-0 oc. ed at 0-4-0 oc. oc, 2x4 - 1 row at 0-9-0 of i noted as front (F) or bac noted as (F) or (B), unles sign. sf; BCDL=6.0psf; h=15ft; e(s): #3 Dead + Uninhabi Vind (Pos. Internal) Right; Dead + 0.6 MWFRS Wind /WFRS Wind (Pos. Intern loor + 0.75(0.6 MWFRS \ 10,75 Roof Live (bal.) + 0.7	cc. k (B) face in the LO. s otherwise indicate ; Cat. II; Exp C; Encl itable Attic Without S ; #6 Dead + 0.6 MW d (Pos. Internal) 1st hal) 3rd Parallel; #11 ; #13 Dead + 0.6 MW Wind (Neg. Int) Left) .75 Roof Live (bal.) 75 Attic Floor + 0.75	AD CASE(S) d. losed; MWFF Storage; #4 E (FRS Wind (M VFRS Wind / WFRS Wind / ; #21 Dead + 0.75 Attic F (0.6 MWFRS	section. Ply to RS (envelope); Dead + 0.6 Jeg. Internal) Dead + 0.6 MWFRS Wind Neg. Internal) • 0.75 Roof Floor + • Wind (Neg.	Novemb	er 9,2021
Continueduos pageren	designed for a 10.0 psr bottom chord liv	e load nonconcurrent with	n any other live load	IS.			1974 Ad Al
WARNING - Verify de Design valid for use onl a truss system. Before building design. Bracin is always required for si fabrication, storage, del Safety Information	sign parameters and READ NOTES ON THIS AND 1 y with MiTek® connectors. This design is based on use, the building designer must verfly the applicabili g indicated is to prevent buckling of individual truss ability and to prevent collapse with possible person ivery, erection and bracing of trusses and truss sys allable from Truss Plate Institute, 2670 Crain High	NCLUDED MITEK REFERENCE y upon parameters shown, and ty of design parameters and pro web and/or chord members only al injury and property damage. lams, see <b>ANSI/TPI (</b> ray, Suite 203 Waldorf, MD 2060	PAGE MII-7473 rev. 5/19, is for an individual buildin perly incorporate this des y. Additional temporary a For general guidance reg Quality Criteria, DSB-89 D1	r2020 BEFORE L Ig component, no sign into the over ind permanent be larding the and BCSI Build	ISE. ot all racing ling Component	818 Soundside F Edenton, NC 27	Road 932

Job	Truss	Truss Type	Qty	Ply	Lot 2 Cypress Road
J0322-1265	B1-GR	ATTIC	1	_	E16391031
	-	-		3	Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,			8.430 s Aug	16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:36 2021 Page 2
			ID:J6aSr?qB6et	azEy6hKRS	SkZzPTZ7NIeUDT8LFUAKHhot935mClWcaZlFxRU_G5l5fyLENP

## NOTES-

7) \* 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.

- 8) Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-11, 5-11; Wall dead load (5.0psf) on member(s).6-8, 2-10
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 8-10
  10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1726 lb down at 1-11-12, 1726 lb down at 3-11-12, 3826 lb down at 5-2-12, 376 lb down and 34 lb up at 5-11-12, 376 lb down and 34 lb up at 1-11-12, 376 lb down and 34 lb up at 11-11-12, 376 lb down and 34 lb up at 13-11-12, 376 lb down and 34 lb up at 15-11-12, 376 lb down at 16-8-4, and 1726 lb down at 17-11-12, and 1726 lb down at 19-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

11) Attic room checked for L/360 deflection.

## LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
  - Vert: 1-2=-60, 2-3=-80, 3-4=-60, 4-5=-60, 5-6=-80, 6-7=-60, 1-10=-20, 8-10=-40, 7-8=-20, 3-5=-20

Drag: 6-8=-10, 2-10=-10 Concentrated Loads (lb)

Vert: 9=-62(B) 8=-1029(B) 10=-1029(B) 12=-430(B) 13=-430(B) 14=-62(B) 15=-62(B) 16=-62(B) 17=-62(B) 18=-62(B) 19=-430(B) 20=-430(B) 10=-430(B) 10=-430(B)









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 in 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 systems, see **ANSUTPI 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





			<b>-</b>				
Plate Offsets (X,Y) [1:0-8-0,0-0-15], [4:0-6-0,0-1-0], [7:0-8-0,0-0-15], [10:0-5-0,0-6-4]							
	5-4-12	6-0-0	6-0-0	5-4-12			
	5-4-12	11-4-12	17-4-12	22-9-8			

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.10	8-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.17	8-10	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.94	Horz(CT) 0.04	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	8-10	>999	240	Weight: 396 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No 2

REACTIONS. (size) 1=0-3-8, 7=0-3-8 Max Horz 1=-270(LC 23) Max Uplift 1=-225(LC 9), 7=-237(LC 8) Max Grav 1=7977(LC 2), 7=8527(LC 2)

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

TOP CHORD 1-2=-8698/296, 2-4=-5745/316, 4-6=-5744/316, 6-7=-8803/299

1-11=-233/5962, 10-11=-233/5971, 8-10=-139/6041, 7-8=-139/6032 BOT CHORD

4-10=-299/7498, 6-10=-2640/260, 6-8=-42/3902, 2-10=-2545/257, 2-11=-37/3758 WEBS

# NOTES-

1) 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: 2x8 - 2 rows staggered at 0-6-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

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) except (jt=lb) 1=225, 7=237.

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1246 lb down and 39 lb up at 0-10-4, 1243 lb down and 42 lb up at 2-10-4, 1243 lb down and 42 lb up at 4-10-4, 1243 lb down and 42 lb up at 6-10-4, 1243 lb down and 42 lb up at 8-10-4, 1243 lb down and 42 lb up at 10-10-4, 1243 lb down and 42 lb up at 12-10-4, 1243 lb down and 42 lb up at 14-10-4, 1243 lb down and 42 lb up at 16-10-4, 1243 lb down and 42 lb up at 18-10-4, and 1243 lb down and 42 lb up at 20-4-4, and 1250 lb down and 35 lb up at 22-7-12 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

November 9,2021

Structural wood sheathing directly applied or 5-5-14 oc purlins.

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



Job	Truss	Truss Type	Qty	Ply	Lot 2 Cypress Road
					E16391034
J0322-1265	C1-GR	COMMON GIRDER	1	2	
				<b>_</b>	Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:40 2021 Page 2

ID:J6aSr?qB6etazEy6hKRSkZzPTZ\_08Y9JbWePU\_bpu?a6?71w2vITB?wBcg4vu3VEQyLENL

# LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-4=-60, 4-7=-60, 1-7=-20

Concentrated Loads (lb)

Vert: 9=-969(B) 7=-976(B) 12=-972(B) 13=-969(B) 14=-969(B) 15=-969(B) 16=-969(B) 17=-969(B) 18=-969(B) 19=-969(B) 20=-969(B) 21=-969(B) 21=-969





- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 22 except (jt=lb) 2=170, 26=147, 27=130, 28=137, 29=210, 21=150, 20=130, 19=136, 18=200, 16=103.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



November 9,2021





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November 9,2021

🛕 WARNING - Verify design pa meters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Construints - Strange delivery design parameters and READ NOTES ON THIS AND INCLODED INTERFERENCE PAGE MIT-1473 BIV 5192/2021 BEFORE DSE. 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 is 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 russ systems, see ANS/TPH1 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



Plate Offset	Plate Offsets (X,Y) [2:0-0-9,0-1-1]												
LOADING	(psf)	SPACING- 2-0-0	) CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP									
TCLL	20.0	Plate Grip DOL 1.15	5 TC 0.19	Vert(LL) -0.01 2-4 >999 360 MT20 244/190									
TCDL	10.0	Lumber DOL 1.15	5 BC 0.12	Vert(CT) -0.03 2-4 >999 240									
BCLL	0.0 *	Rep Stress Incr YES	S WB 0.00	Horz(CT) 0.00 n/a n/a									
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)         0.03         2-4         >999         240         Weight: 34 lb         FT = 20%									
				BPACING-									

TOP CHORD

BOT CHORD

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

BOT CHORD2x6 SP No.1WEBS2x6 SP No.1

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=71(LC 8) Max Uplift 2=-104(LC 8), 4=-97(LC 8)

Max Grav 2=274(LC 1), 4=223(LC 1)

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

## NOTES-

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 5-9-4 zone; porch 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=104.



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

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

except end verticals.





Plate Offsets (X,Y)	[2:0-0-9,0-1-1]				
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	<b>CSI.</b> TC 0.09 BC 0.10 WB 0.01 Matrix-S	DEFL.         in           Vert(LL)         0.02           Vert(CT)         -0.02           Horz(CT)         -0.00	(loc) l/defl L/d 2-8 >999 240 8 >999 240 6 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 37 lb         FT = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF WEBS 2x6 SF OTHERS 2x4 SF	2 No.1 2 No.1 2 No.1 2 No.1 2 No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	rectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 6=0-1-8 Max Horz 2=101(LC 8) Max Uplift 2=-151(LC 8), 6=-142(LC 8) Max Grav 2=274(LC 1), 6=223(LC 1)

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

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#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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) 6 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) 6.
  8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=151.6=142.







Plate Offsets (X,Y)	[2:0-2-6,0-1-8], [4:0-2-6,0-1-8]		
LOADING(psf)TCLL20.0TCDL10.0BCLL0.0410.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.20 BC 0.09 WB 0.03 Matrix-P	DEFL.         in         (loc)         I/defl         L/d           Vert(LL)         0.01         5         n/r         120           Vert(CT)         0.01         5         n/r         120           Horz(CT)         0.00         4         n/a         n/a           Weight:         32 lb         FT = 20%
LUMBER- TOP CHORD 2x4 \$	P No.1		BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

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

REACTIONS. (size) 2=6-10-6, 4=6-10-6, 6=6-10-6

Max Horz 2=-114(LC 10)

Max Uplift 2=-65(LC 13), 4=-71(LC 13) Max Grav 2=190(LC 1), 4=190(LC 1), 6=214(LC 3)

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

## NOTES-

- Unbalanced roof live loads have been considered for this design.
   Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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) 2, 4.

7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







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

WEBS 3-12=-393/294, 2-13=-299/243, 5-9=-393/294, 6-8=-299/243

## NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-6 to 4-9-2, Interior(1) 4-9-2 to 10-2-8, Exterior(2) 10-2-8 to 14-7-5, Interior(1) 14-7-5 to 20-0-11 zone; 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=173, 13=126, 9=173, 8=126.







LOADING TCLL TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TP	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matrix	0.17 0.19 0.13 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 77 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER-	RD 2x4 SP	No.1				BRACING- TOP CHOR	D	Structu	ral wood	sheathing d	irectly applied or 6-0-0	oc purlins.	

BOT CHORD

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

OP CHORD

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

REACTIONS. All bearings 16-2-15.

(lb) - Max Horz 1=-178(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-182(LC 12), 6=-182(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=418(LC 22), 9=503(LC 19), 6=503(LC 20)

WEBS 2-9=-406/302, 4-6=-406/302

## NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-6 to 4-9-2, Interior(1) 4-9-2 to 8-1-8, Exterior(2) 8-1-8 to 12-6-4, Interior(1) 12-6-4 to 15-10-9 zone; 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, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=182, 6=182,





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



BRACING-

TOP CHORD

BOT CHORD

## LUMBER-

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

REACTIONS. All bearings 12-0-14.

(lb) - Max Horz 1=-130(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-150(LC 12), 6=-150(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=334(LC 19), 6=334(LC 20)

WEBS 2-8=-344/282, 4-6=-344/282

## NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-6 to 4-9-2, Interior(1) 4-9-2 to 6-0-7, Exterior(2) 6-0-7 to 10-5-4, Interior(1) 10-5-4 to 11-8-8 zone; 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, 5 except (jt=lb) 8=150, 6=150.



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

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



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



TOP CHORD

BOT CHORD

## LUMBER-

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

REACTIONS. (size) 1=7-10-12, 3=7-10-12, 4=7-10-12

Max Horz 1=-82(LC 8)

Max Uplift 1=-30(LC 13), 3=-31(LC 13)

Max Grav 1=173(LC 1), 3=173(LC 1), 4=228(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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.



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

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

November 9,2021





BRACING-

TOP CHORD

BOT CHORD

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

REACTIONS. (size) 1=3-8-11, 3=3-8-11, 4=3-8-11 Max Horz 1=34(LC 9)

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

Max Grav 1=72(LC 1), 3=72(LC 1), 4=95(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.



Structural wood sheathing directly applied or 3-8-11 oc purlins.

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











CSD 🚟

isDesi	ign	Client: Project: Address:	Benjamin Stout Re The Ashville Cypress Road Fayetteville, NC	al Estate 28304	D Ir Ju P	ate: iput by: ob Name: roiect #:	3/9/2022 David Landry Lot 2 Cypress Road J0322-1266	Page 2 of 12
BM1 Kert	o-S LVL	1.750" >	K 14.000''	2-Ply	- PASSEI	D L	evel: Level	
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	•		•	•	• •	•	• •	• <u> </u>
1 SPF End Grair	l						2 SPF E	
				12'7"				3 1/2"
1				12'7"				1
Multi-Ply Analys	is							
Fasten all plies usi Capacity	ng 3 rows of 10	d Box nails (	.128x3") at 12"	o.c Maxim	um end dista	ince not	t to exceed 6"	
Load Yield Limit per Foot	0.0 PLF 245.6 F	= PLF						
Yield Limit per Fastener	81.9 lb.							
Edge Distance	1 1/2"							
Min. End Distance	3"							
Duration Factor	1.00							
Notes	cł	nemicals		6. For flat roofs pro	ovide proper drainage to	prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is structural adequacy of this com design criteria and loadings responsibility of the customer an	responsible only of the ponent based on the shown. It is the nd/or the contractor to re	CUING & INSTALLATION /L beams must not be cu efer to manufacture garding installation	<b>ON</b> ut or drilled or's product information requirements, multi-ply	F		N   3   1	vietsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 800) 622 5850	науетсечне, NC USA 28314 910-864-TRUS
erisure use component suitab application, and to verify the dime Lumber 1. Dry service conditions, unless 2. U/L not to be treated with for	nity of the intended fa nsions and loads ap 3 D noted otherwise 5 Pi	stening details, beam s oprovals amaged Beams must no esign assumes top edge rovide lateral support a	strength values, and code of the used of is laterally restrained at bearing points to avoid				vww.metsawood.com/us CC-ES: ESR-3633	Comtecul
Version 20.40.075 Powered	by iStruct™	terar displacement and r	otation	This design is	valid until 4/24/202	3		CEDI III

CSD 🗱

	/	C	Client: E	Benjamin Stou	ıt Real Estat	e	[	Date:	3/9/20	)22				Page 3 of 12
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L <u>L</u>	spesign	A	ddress: (	Cypress Ro Favetteville	ad NC 28304	L		Job Name	e: Lot 2	Cypress Roa	b			
DM2	Karta S L	VI 4	750" V						Level: Le	vel				
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Plies:	2		Design N	lethod: A	SD		1	67	8	709	0		0	0
Moisture Co	ndition: Dry		Building	Code: IB	C/IRC 2015		2	18	9	546	0		0	0
Deflection L	L: 480		Load Sha	aring: No										
Deflection I	L: 360 Normal		Deck:	N	of Checked									
Temperature	e: Temp <= 10	0°F												
	•						Bearing	s						
							Bearing	Lengt	h (	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
							1 - SPF	3.500"	:	27% 709	/ 678	1387	L	D+L
Analysis R	esults						2 - SPF	3.500"		14% 546	/ 189	734	L	D+L
Analysis	Actual	Location A	Allowed	Capacity	Comb.	Case	7							
Moment	1305 ft-lb	2'8 7/16" 2	:6999 ft-lb	0.048 (5%)	D+L	L								
Unbraced	1305 ft-lb	2'8 7/16" 1	7623 ft-lb	0.074 (7%)	D+L	L								
Shear	1162 lb	1'4 3/4" 1	0453 lb	0.111 (11%)	D+L	L								
LL Defl inc	h 0.003 (L/21799)	2'7 3/8" 0	0.139 (L/480)	0.020 (2%)	L	L								
TL Defl inc	h 0.008 (L/8727)	2'10 1/16" 0	.185 (L/360)	0.040 (4%)	D+L	L								
Design No	otes						1							
1 Fasten al	I plies using 3 rows o	of 10d Box nails	s (.128x3") at	t 12" o.c. Max	imum end di	istance not	1							
2 Refer to I	a 6". ast page of calculati	ons for fastenei	rs required fo	or specified loa	ads.									
3 Concentr	ated load fastener s	pecification is in	n addition to I	hanger fasten	ers if a hang	jer is								
4 Girders a	re designed to be su	pported on the	bottom edge	e only.										
6 Top brace	ed at bearings.	equally by all p	lies.											
7 Bottom b	raced at bearings.													
8 Lateral sl	enderness ratio base	ed on single ply	width.		Sido	Dood 0 0		1 800	NW 1 15	Mind 1 6	Const	1.05	Commont	•
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Notes	nd Designed is seen with the set	chemical	s & Installation	<b>.</b>	6. For fla pondin	at roofs provide j ig	proper drainage t	o prevent	Manufac	turer Info			omtech, Inc. 01 S. Reilly Road, wetteville, NC	Suite #639
structural adequac design criteria	ou Designs is responsible on y of this component based and loadings shown. It	on the <u>1. LVL bear</u> is the <u>2 Refer</u>	ms must not be cut	or drilled s product inform	ation				301 Merr	itt 7 Building, 2	nd Floor	28	SA 314	
responsibility of th ensure the comp	e customer and/or the contra conent suitability of the in	actor to regarding itended fastening	g installation i details, beam str	requirements, mu rength values, and	ti-ply code				Norwalk, (800) 622	2-5850		91	0-864-TRUS	
application, and to Lumber	venry the almensions and load	s. approval 3. Damage 4. Decigo o	s d Beams must not l ssumes top edge ii	be used s laterally restrained					www.met ICC-ES:	sawood.com/u ESR-3633	6		1000	
<ol> <li>Dry service con</li> <li>LVL not to be t</li> </ol>	ditions, unless noted otherwise reated with fire retardant or co	e 5. Provide prrosive lateral di	lateral support at splacement and rot	bearing points to a tation	avoid Thie	design is valid	d until 4/24/201	23					con	тесн
L 20.40.0					1115	aborgin ið vallt	. and 7/24/20.							

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# **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. Maximum end distance not to exceed 6"

Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	245.6 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	

# **Concentrated Load**

Fasten at concentrated side load at 1-1-0 with a minimum of (6) – 10d Box nails (.128x3") in the . . . .

pattern snown.		
Capacity	96.9 %	
Load	476.0lb.	
Total Yield Limit	491.0 lb.	
Cg	0.9998	
Yield Limit per Fastener	81.9 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

chemicals

Handling & Installation

# Min/Max fastener distances for Concentrated Side Loads

This design is valid until 4/24/2023



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

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.

Notes

Lumber

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	/	C	lient:	Benjamin	Stout Real Estate	e	D	ate:	3/9/2022			Page 5 of 12
1		P	Project:	The Ashvil	le		In	iput by:	David Landr	У		
Ľ	spesign	А	ddress:	Cypress	Road		Jo	ob Name:	Lot 2 Cypres	ss Road		
		0.00						roject #:	JU322-1266			
BINI 3	3-P-F #Z	2.00	JU X	12.00	U 2-P	iy - P/	499EI	ן נ				
					1							
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-	Stor Min	-	-		att The			100	Nin			11 1/4"
	• •	•	-				8 / AL / A / A		•	• • •		Ш
1 SPF	End Grain									2 SPF En	d Grain	
1					12'3 1/2"						1	1_13"
1					12'3 1/2'	1					1	
Member I	nformation						Reaction	ns UNP	ATTERNE	D lb (Uplift)		
Type: Plice:	Girder		Applicat	tion: Mothod:	Floor		Brg	Live	Dead	Snow	Wind	Const
Moisture Co	ndition: Dry		Building	Code:	IBC/IRC 2015		2	0	799 799	799 799	0	0
Deflection L	L: 480		Load St	naring:	No		-					
Deflection T	L: 360		Deck:		Not Checked							
Temperature	e: Temp <= 100°	`F										
							Bearing	s				
							Bearing	Length	Cap. I	React D/L lb	Total Ld. Ca	se Ld. Comb.
							End	3.500	30%	1997199	1996 L	D+5
Analysis R	esults						Grain	0.500"	2004	700 / 700	4500	D. C
Analysis	Actual	Location A	llowed	Capacit	y Comb.	Case	End	3.500	36%	1997199	1598 L	D+5
Moment	4551 ft-lb 4551 ft-lb	6'1 3/4" 5 6'1 3/4" 4	306 ft-1b 558 ft-1b	0.858 (8	6%) D+S D+S	L	Grain					
Unbraced		010/1		(100%)	5.0	-						
Shear	1295 lb	1'2" 3	493 lb	0.371 (3	7%) D+S	L						
TL Defl inc	h 0.230 (L/617)	6'1 3/4" 0	.394 (L/360	)) 0.590 (5 )) 0.580 (5	9%) 3 8%) D+S	L						
Design No	otes			, ,	,		1					
1 Fasten al	I plies using 2 rows of	10d Box nails	s (.128x3")	at 12" o.c. N	laximum end di	stance not	1					
to exceed 2 Refer to I	a 6". ast page of calculation	s for fastener	s required	for specified	l loads.							
3 Girders a	re designed to be supp	ported on the	bottom edg	ge only								
5 Top must	be laterally braced at	a maximum c	of 6'1 1/2" o	.C.								
6 Bottom b	raced at bearings. enderness ratio based	on single ply	width									
ID	Load Type	L	ocation	Trib Width	Side	Dead 0.9	Live	1 Snow	v 1.15 Wi	nd 1.6 Const.	1.25 Comm	ents
1	Uniform				Тор	130 PLF	0 PL	F 13	0 PLF	0 PLF	0 PLF D1	
									Manufacturer li	nfo	Comtech, Inc.	
								F			1001 S. Reilly F Fayetteville, NC	Road, Suite #639
											28314 910-864-TRUS	
												тесн
Version 20 40 0	75 Downers - her ich - +77				This o	design is valid	until 4/24/202	3				
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1	isDesign		Client: Project: Address:	Benjamin Stou The Ashville Cypress Roa Favetteville	it Real Estate ad NC 28304		Date: Input by: Job Name Project #:	3/9/2022 David Landry e: Lot 2 Cypress Road	Page 6 of 12
BM3	S-P-F #	2 2.	000" X	12.000"	2-Ply	- PASSE	ED	Level: Level	
					-				
•	•	•	• •	•	•	•	•	• •	• • • •
.	•	•		•	•	•	•		• <u> </u>
	End Grain							2	SPF End Grain
					12'3 1/2"				3"
1					12'3 1/2"				1
Multi-Ply	/ Analysis								
Fasten all Capacity	plies using 2 i	rows of 100	d Box nails	(.128x3") at	12" o.c Maxi	mum end dis	stance no	ot to exceed 6"	
Load Yield Limit pe	er Foot	0.0 PLF 157.4 P	LF						
Yield Limit pe	er Fastener	78.7 lb.							
Edge Distance	ce	1 1/2"							
Min. End Dist Load Combin	tance	3"							
Duration Fac	tor	1.00							
							[	Manufacturer Info	Comtech, Inc. 1001 S. Pailly Road, Suite #630
							ļ		Fayetteville, NC USA
									28314 910-864-TRUS
					This desigr	n is valid until 4/24/	2023		соттесн

	/	С	lient:	Benjamin S	Stout Real Estat	te	D	ate:	3/9/2022				Page 7 of 12
	Destan	Pi	roject:	The Ashvill	le		Ir	nput by:	David La	indry			
	abesign	A	ddress:	Cypress Favettevi	Road lle. NC 28304	1	Ji P	ob Name roiect #·	E Lot 2 Cy .10322-1	press Road 266			
BM4	Korto-SIV	1	750"	YQ2	250" 2	-Plv -	PASS	FD	Level: Level				
			./ 50	A 3.2	.50 2								
								I					
	4												
		2							3				
		TITIT											
					<u> </u>								
•	- 10 million	•		•	•		•			•		•	$\overline{M}$
	Contra-		1	•	and the second			-	and in				91/4
	End Orain									2.6		in .	
					0'7"					23	FF Ellu Gla	,	2 1/2"
					0 7								3 1/2
					87							I	
Momber	formation						Postic				Inlift)		
	Girder		Applicati	ion:	Floor		Bra			ad	Snow	Wind	Const
Plies:	2		Design N	Method:	ASD		1	1330	) 2	005	240	0	0
Moisture Cor	ndition: Dry		Building	Code:	IBC/IRC 2015		2	1330	) 2	005	240	0	0
Deflection LL Deflection TL	.: 480 .: 360		Load Sh Deck:	laring:	No Not Checked								
Importance:	Normal												
Temperature	: Temp <= 100°F						Booring	<u> </u>					
							Bearing	s Lenati	n Car	React D	/Llb To	tal I.d. Case	Id Comb
							1 - SPF	3.500"	319	% 2005 /	1330 33	35 L	D+L
Analysis B							End Grain						
Analysis	Actual Lo	cation A	llowed	Capacit	v Comb.	Case	2 - SPF	3.500"	319	% 2005 /	1330 33	35 L	D+L
Moment	6413 ft-lb 4	4'3 1/2" 12	2542 ft-lb	0.511 (5	1%) D+L	L	End Grain						
Unbraced	6413 ft-lb 4	4'3 1/2" 84	468 ft-Ib	0.757 (7	6%) D+L	L							
Shear	2558 lb	1'69 20/16"0	907 lb 202 (L (480	0.370 (3	7%) D+L 7%) I	L							
TL Defl inch	0.188 (L/519) 4	3 9/16 0. 3 9/16" 0.	.203 (L/480 .271 (L/360	) 0.690 (6	9%) D+L	L							
Desian No	tes		,	, ,	,		1						
1 Fasten all	plies using 2 rows of 100	d Box nails	(.128x3") a	at 12" o.c. N	/laximum end di	istance not	1						
2 Refer to la	6". Ist page of calculations fo	or fasteners	s required f	or specified	d loads.								
3 Girders an	e designed to be support	ted on the l	bottom edg	e only.									
5 Top brace	d at bearings.	iiy by all pi	ies.										
6 Bottom bra 7 Lateral sle	aced at bearings. Inderness ratio based on	sinale plv	width.										
ID	Load Type	L	ocation	Trib Width	Side	Dead 0.9	Live	1 Sno	w 1.15	Wind 1.6	Const. 1.2	25 Comment	s
1	Uniform				Тор	104 PLF	310 PL	F	0 PLF	0 PLF	0 PL	.F F1	
2	Uniform				Тор	56 PLF	0 PL	F	56 PLF	0 PLF	0 PL	F M1	
3	Uniform				Тор	120 PLF	0 PL	F	0 PLF	0 PLF	0 PL	F Wall Above	2
4	Uniform				Тор	180 PLF	0 PL	F	0 PLF	0 PLF	0 PL	F C1GE	
	Self Weight					7 PLF							
Notes	d Daeigne is responsible only of the	chemicals Handling	& Installatio	n	6. For fla pondin	at roofs provide p ig	roper drainage to	prevent	Manufactur	er Info		Comtech, Inc. 1001 S. Reilly Road, Favetteville, NC	Suite #639
structural adequacy design criteria an	of this component based on the d loadings shown. It is the	1 LVL beam 2 Refer to	is must not be cu manufacturer	utordrilled r's product in	nformation				301 Merritt 7 Norwalk, CT	Building, 2n 06851	d Floor	USA 28314 910-864-TRUS	
application, and to ve	onent suitability of the intended erify the dimensions and loads.	regarding fastening approvals	installation details, beam s	requirements, strength values,	multi-ply and code				(800) 622-58 www.metsav	350 vood.com/us		510-004-TRU5	
Lumber 1. Dry service cond	itions, unless noted otherwise	<ol> <li>Damaged</li> <li>Design as</li> <li>Provide Is</li> </ol>	Beams must not sumes top edge ateral support a	t be used is laterally restra it bearing points	iined s to avoid				ICC-ES: ES	₹-3633		leon	TROUT
2. LVL not to be tre	eated with fire retardant or corrosive	lateral dis	placement and ro	otation	This	design is valid	until 4/24/202	3				Con	HECH
Version 20.40.075	5 Powered by iStruct™											CSD 🚟	

1	isDesign	Client Projec Addre	: Benjamin Stout Res ct: The Ashville ess: Cypress Road Favetteville NC	al Estate	Date: Input by: Job Name Project #:	3/9/2022 David Landry : Lot 2 Cypress Road	Page 8 of 12
BM4	Kerto-S L\	/L 1.7	50" X 9.250"	2-Ply - F	PASSED	_evel: Level	
•	•	•	•	• •	I	•	•
		•	•			•	9 1/4'
	PF End Grain					2 SPF End	
				8'7" 8'7"			
							-
Fasten all Capacity Load Yield Limit per Yield Mode Edge Distanco Min. End Dista Load Combin Duration Fact	plies using 2 rows	of 10d Box n 0.0 % 0.0 PLF 163.7 PLF 81.9 lb. IV 1 1/2" 3" 1.00	ails (.128x3") at 12"	o.c Maximum e	end distance no	ot to exceed 6"	Contech, Inc.
NOTES Calculated Structu structural adequa- design criteria responsibility of the ensure the com application, and to	ared Designs is responsible only of cy of this component based on and loadings shown. It is the customer and/or the contractor ponent suitability of the intenc verify the dimensions and loads.	the Handling & In 1. LVL beams mus to regarding ins fastening detail approvals	stallation t not be cut or drilled anufacturer's product information tallation requirements, multi-ply s, beam strength values, and code is must not be used	ponding	orania3a ro bleveur	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	1001 S. Reilly Road, Suite #639 Fayetterille, NC USA 28314 910-864-TRUS
1. Dry service con 2. LVL not to be	nditions, unless noted otherwise treated with fire retardant or corros	<ol> <li>Damaged Beam</li> <li>Design assume</li> <li>Provide lateral</li> <li>ive lateral displacer</li> </ol>	is must not be USed s top edge is laterally restrained support at bearing points to avoid nent and rotation	This design is valid u	ntil 4/24/2023	ICC-ES: ESR-3633	соттесн
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isDesign	Client: Benjamin Ste Project: The Ashville Address: Cypress R Fayetteville	out Real Estate oad e, NC 28304	Date: Input by: Job Name: Project #:	3/9/2022 David Landry Lot 2 Cypress Road J0322-1266	Page 10 of 12
BM5 Kerto-S LVL	1.750" X 11.8	875" 2-Ply -	PASSED	evel: Level	
	· · ·	· · ·	•••	•••	• • • • • • • • • • • • • • • • • • •
1 SPF					
		11'7"			3 1/2"
1		11'7"			1
Multi-Ply Analysis					
Capacity       92.1 %         Load       260.0 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					
Notes chem Calculated Structured Designs is responsible only of the structural adequacy of this component based on the	icals ng & Installation	<ol> <li>For flat roofs provide pr ponding</li> </ol>	oper drainage to prevent	Manufacturer Info Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA
design criteria and loadings shown. It is the 2. Refer responsibility of the customer and/or the contractor to application, and to verify the dimensions and loads.	eams must not be cut or drilled to manufacturer's product info ding installation requirements, r ning details, beam strength values, an worke	rmation nulti-ply d code		301 Merritt / Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	28314 910-864-TRUS
Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive 1. Service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive 1. Service conditions, unless noted otherwise 1. Service condition	aged Beams must not be used in assumes top edge is laterally restraine de lateral support at bearing points to I displacement and rotation	o avoid This design is valid	until 4/24/2023	ICC-ES: ESR-3633	соттесн

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is	Design	C F A	Client: Project: Address:	Benjamin Sto The Ashville Cypress Ro Fayetteville	ut Real Estate ad NC 28304	2	D Ir Ji P	ate: iput by: ob Name roject #:	3/9/2022 David Lar : Lot 2 Cyp J0322-12	ndry ress Road 66			Page 11 of 12
GDH	Kerto-S L	VL 1.	750" >	K 11.87	5'' 2-F	Ply - P	ASSE	D	_evel: Level				
		2			1				3				
1 SPF En	d Grain	-	A		16'10"		· · ·	47	N	2 5	SPF End Gra		11 7/8"
1					16'10"							<b>_</b> 1	
Member In	formation						Reaction	ns UNI	PATTERN	FD lb (Ur	lift)		
Type: Plies: Moisture Cond Deflection LL: Deflection TL: Importance:	Girder 2 dition: Dry 480 360 Normal		Applicat Design I Building Load Sh Deck:	ion: Fl Method: A Code: IE Iaring: N N	oor SD 3C/IRC 2015 o ot Checked		Brg 1 2	Live C	- De 22 0 22	ad S 66 66	now 168 168	Wind 0 0	Const 0 0
Temperature:	Temp <= 100	)°F					Booring						
							Bearing Bearing 1 - SPF End	Length 3.500"	n Cap 23%	React D/L 2266 / 1	.lb Total 68 2434	Ld. Case L	Ld. Comb. D+S
Analysis Re	Actual	Location (	Mound	Conocity	Comb	Casa	2 - SPF	3.500"	23%	2266 / 1	68 2434	L	D+S
Moment Unbraced	9024 ft-lb 9694 ft-lb	8'5" 1 8'5" 9	17919 ft-lb 9704 ft-lb	0.504 (50%	) D D+S	Uniform L	End Grain						
Shear LL Defl inch TL Defl inch	1938 lb 0.035 (L/5617) 0.506 (L/388)	15'7 3/8" 7 8'5 1/16" 0 8'5 1/16" 0	7980 lb ).409 (L/480 ).546 (L/360	(100%) 0.243 (24% ) 0.090 (9%) ) 0.930 (93%	) D S ) D+S	Uniform L L							
Design Not			(	,	,	_	1						
1 Fasten all p to exceed 6 2 Refer to las 3 Girders are 4 Top loads n 5 Top must b 6 Bottom bra 7 Lateral sler	lies using 2 rows o ". the page of calculation designed to be sup nust be supported e e laterally braced a ced at bearings. derness ratio base	f 10d Box nails ns for fastene oported on the equally by all p t a maximum o d on single ply	s (.128x3") a rs required f bottom edg blies. of 9'6 3/4" o. v width.	at 12" o.c. Max for specified lo le only. c.	imum end dis ads.	stance not							
ID	Load Type	sr,	ocation	Trib Width	Side	Dead 0.9	Live	1 Sno	w 1.15	Wind 1.6 C	Const. 1.25	Comments	
1	Uniform				Тор	180 PLF	0 PL	F	0 PLF	0 PLF	0 PLF	B1GE	
2	Uniform	0.0.0	40.40.5	100	Тор	60 PLF	0 PL	F	0 PLF	0 PLF	0 PLF	Wall Above	
3	Self Weight	U-U-U to	16-10-0	1-0-0	юр	9 PLF	0 25	F :	20 PSF	0 PSF	0 PSF	Roof Load	
Notes Calculated Structured structural adequacy of design criteria and responsibility of the of ensure the compon	Designs is responsible only of this component based o loadings shown. It is ustomer and/or the contrac ent suitability of the int the did build of the int	of the <b>Handling</b> In the 1. LVL bear tor to regarding anded	ls <b>g &amp; Installatio</b> ms must not be cu to manufacture g installation g details, beam s	DN It or drilled r's product inform requirements, mu strength values, and	6. For flat ponding nation lti-ply code	roofs provide p	roper drainage to	prevent	Manufacture Metsä Wood 301 Merritt 7 Norwalk, CT (800) 622-58	<b>r Info</b> Building, 2nd F 26851 50	Floor C 22 9	omtech, Inc. 001 S. Reilly Road, S ayetteville, NC SA 3314 10-864-TRUS	uite #639
application, and to ver Lumber 1. Dry service conditi 2. LVL not to be trea	ny ine aimensions and loads ons, unless noted otherwise ted with fire retardant or cor	approval 3. Damage 4. Design a 5. Provide lateral di	ls d Beams must no assumes top edge lateral support a splacement and r	t be used is laterally restrained it bearing points to otation	<sup>avoid</sup> This d	esign is valid	until 4/24/202	3	www.metsaw ICC-ES: ESR	ood.com/us -3633		com	тесн

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1	isDesign		Client: Project: Address:	Benjamin Stout Re The Ashville Cypress Road Fayetteville, NC	al Estate	Da Inj Ja Pr	ate: put by: bb Name: roiect #:	3/9/2022 David Landry Lot 2 Cypress Road J0322-1266	Page 12 of
GDH	Kerto-S	LVL	1.750"	X 11.875"	2-Ply	- PASSEI	<b>)</b>	evel: Level	
									ā.
		• •	•	· ·	• •	•••	•		· · · · · · · · · · · · · · · · · · ·
1 SPF	End Grain							2 SPF End	Grain
					16'10"				3 1/2"
					16'10"				1
<b>Multi-Ply</b> Fasten all	<b>Analysis</b> plies using 2 r	<u>rows of 1</u> 0	d Box nails	(.128x3") at 12"	o.c Maxim	um end dista	nce not	t to exceed 6"	
Load Yield Limit pe Yield Mode Edge Distanc Min. End Dist Load Combin <u>Duration Fact</u>	r Foot r Fastener e ance ation .or	0.0 PLI 163.7 f 81.9 lb IV 1 1/2" 3" 1.00	= PLF						
Notes Calculated Struct, structural adequa design oriteria responsibility of t ensure the con application, and to Lumber 1. Dry service co	ured Designs is responsible cy of this component ba and loadings shown. he customer and/or the co ponent suitability of th verify the dimensions and inditions, unless noted othe treated with fing retardrech	conly of the sed on the lit is the ontractor to reintended loads.	nemicals <b>dling &amp; Installat</b> VL beams must not be efer to manufactu garding installation istening details, beam provals amaged Beams must esign assumes top ed rovide lateral support	tion cut or drilled rere's product information requirements, multi-ply n strength values, and code not be used ge is laterally restrained a toearing points to avoid	6. For flat roofs pro ponding	wide proper drainage to	prevent N C ( V	Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 800) 622-5850 www.metsawood.com/us CC-ES: ESR-3633	Contech, Inc. 1001 S. Relly Road, Suite #639 Fayettevile, NC USA 28314 910-864-TRUS
		18	uspiacement and	a rotation	This design is	valid until 4/24/2023	5		

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RE: J0322-1266 Lot 2 Cypress Road Trenco 818 Soundside Rd Edenton, NC 27932

# Site Information: Cus Lot/

Customer: Benjamin Stout Real Estate Lot/Block: 2	Project Name: J0322-1266 Model: Ashville
Address: Cypress Road	Subdivision: Cypress Road
City: Fayetteville	State: NC

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

Design Code: IRC2015/TPI2014 Wind Code: N/A Roof Load: N/A psf

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

This package includes 13 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16391095	ET1	11/9/2021
2	E16391096	ET2	11/9/2021
3	E16391097	F1	11/9/2021
4	E16391098	F2	11/9/2021
5	E16391099	F2A	11/9/2021
6	E16391100	F3	11/9/2021
7	E16391101	F4	11/9/2021
8	E16391102	F4A	11/9/2021
9	E16391103	F5	11/9/2021
10	E16391104	F6	11/9/2021
11	E16391105	F7	11/9/2021
12	E16391106	FG1	11/9/2021
13	E16391107	FG2	11/9/2021

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.



Gilbert, Eric

November 09, 2021



29-11-0 1-4

	( , ,		/									
LOADING (ps TCLL 40 TCDL 10 BCLL 0 BCDL 5	sf) ).0 ).0 ).0 ).0 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TI	2-0-0 1.00 1.00 YES PI2014	<b>CSI.</b> TC BC WB Matri	0.06 0.01 0.03 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 26	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 128 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP 2x4 SP 2x4 SP 2x4 SP 2x4 SP	No.1(flat) No.1(flat) No.3(flat) No.3(flat)				BRACING TOP CHOP BOT CHOP	RD RD	Structu except Rigid c 10-0-0	ral wood end verti eiling dire oc bracir	sheathing di icals. ectly applied ng: 49-50,48-	rectly applied or 6-0-0 o or 6-0-0 oc bracing, E 49,47-48,46-47,45-46,4	эс purlins, xcept: 14-45.

REACTIONS. All bearings 29-11-0.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 26

Max Grav All reactions 250 lb or less at joint(s) 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26.

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.





Job	Truss	Truss Type	Qty	Ply	Lot 2 Cypress Road
					E16391096
J0322-1266	ET2	GABLE	1	1	
					Job Reference (optional)
Comtech, Inc, Fayette	/ille, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Mon Nov 8 13:13:26 2021 Page 1

 $ID: J6aSr?qB6etazEy6hKRSkZzPTZ\_g?KYzJ3Vacn4KyWPpfyqnlpEHkoozeErU2CxrlyLEMd$ 0-1-8

Scale = 1:41.7



 1-4-0
 2-8-0
 4-0-0
 5-4-0
 6-8-0
 9-4-0
 10-8-0
 12-0-0
 13-4-0
 14-8-0
 16-0-0
 17-4-0
 18-8-0
 20-0-0
 21-4-0
 22-8-0
 24-0-0
 24-11-8

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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 IRC2015/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	n (loc) l/defi L/d a - n/a 999 a - n/a 999 ) 22 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 106 lb         FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4	SP No.1(flat) SP No.1(flat)		BRACING- TOP CHORD	Structural wood sheathin except end verticals.	g directly applied or 6-0-0 oc purlins,

2x4 SP No.3(flat) WFBS 2x4 SP No.3(flat) OTHERS

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

REACTIONS.

 All bearings 24-11-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 35, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23

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.

7) CAUTION, Do not erect truss backwards.







27 26

4x6 =

3x6 FP=

25

3x10 =

24

3x6 =

23

22

21

20

3x6 =

	<u> </u>						29-1 12-9	1-0 9-8	
Plate Offsets (X,Y)	[5:0-1-8,Edge], [22:0-1-8,Edge], [23:0-1	-8,Edge], [29:0-1-8,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 IRC2015/TPI2014	CSI. TC 0.86 BC 0.85 WB 0.58 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.20 -0.28 0.05	(loc) 30 30 20	l/defl >999 >735 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 149 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S	SP No.1(flat)		BRACING- TOP CHOR	D	Structu	ral wood	sheathing di	rectly applied or 6-0-0 c	oc purlins,

2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. REACTIONS. (size) 33=0-3-8, 25=0-5-8, 20=0-3-8

Max Grav 33=826(LC 3), 25=1934(LC 1), 20=608(LC 4)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-1695/0, 3-4=-2732/0, 4-5=-2732/0, 5-6=-2963/0, 6-7=-2963/0, 7-8=-2067/0, 8-9=-2067/0, 9-10=-539/303, 10-12=0/2152, 12-13=0/2152, 13-14=-551/972, 14-15=-1575/269, 15-16=-1575/269, 16-17=-1575/269, 17-18=-1162/0 BOT CHORD 32-33=0/1030, 31-32=0/2330, 30-31=0/2963, 29-30=0/2963, 28-29=0/2561,

26-28=-37/1417, 25-26=-833/0, 24-25=-1263/0, 23-24=-662/1135, 22-23=-269/1575, 21-22=-24/1515, 20-21=0/747 WEBS 2-33=-1290/0, 2-32=0/866, 3-32=-826/0, 3-31=0/514, 10-25=-1655/0, 10-26=0/1228, 9-26=-1188/0, 9-28=0/878, 7-28=-685/0, 7-29=0/807, 6-29=-359/0, 5-31=-475/153,

13-25=-1321/0, 13-24=0/882, 14-24=-926/0, 14-23=0/942, 18-20=-935/0, 18-21=0/540, 17-21=-460/99, 17-22=-345/76, 15-23=-417/0

## NOTES-

33

3x6

PI L

WFBS

32

31

30

3x6 = 1.5x3 ||

29

28

3x6 =

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) 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.









<b> </b>	16-7-8		16 <sub>1</sub> 9-0			29-7-8	2		
Plate Offsets (X,Y)	[1:Edge,0-1-8], [4:0-1-8,Edge], [21:0-1-4	8,Edge], [22:0-1-8,Edge], [	[28:0-1-8,Edge]			12-10-0	5		
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 IRC2015/TPI2014	CSI. TC 0.87 BC 0.85 WB 0.57 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.18 28-29 -0.25 28-29 0.05 19	l/defl >999 >810 n/a	L/d 480 360 n/a	<b>PLATES</b> MT20 Weight: 146 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E	
LUMBER- TOP CHORD     BRACING- TOP CHORD       BOT CHORD     2x4 SP No.1(flat)       BOT CHORD     2x4 SP No.1(flat)       WEBS     2x4 SP No.3(flat)       BOT CHORD     BOT CHORD       Rigid ceiling directly applied or 6-0-0 oc bracing.									
REACTIONS. (siz Max (	ze) 32=Mechanical, 19=0-3-8, 24=0-5-4 Grav 32=814(LC 3), 19=615(LC 4), 24=1	4 907(LC 1)							
FORCES. (lb) - Max TOP CHORD 2-3= 8-9= 14-1	. Comp./Max. Ten All forces 250 (lb) or 1658/0, 3-4=-2582/0, 4-5=-2848/0, 5-6= -563/296, 9-11=0/2082, 11-12=0/2082, 1 5=-1611/221, 15-16=-1611/221, 16-17=	less except when shown. 2848/0, 6-7=-2034/0, 7-8 -2-13=-578/905, 13-14=-16 1179/0	=-2034/0, 611/221,						
BOT CHORD 31-32=0/1002, 30-31=0/2282, 29-30=0/2848, 28-29=0/2848, 27-28=0/2500, 25-27=-36/1414, 24-25=-810/0, 23-24=-1188/0, 22-23=-602/1165, 21-22=-221/1611, 20-21=0/1540, 19-20=0/756									
WEBS 2-32 9-25 17-1 12-2	20-21=0/1540, 19-20=0/56 WEBS 2-32=-1257/0, 2-31=0/854, 3-31=-813/0, 3-30=0/392, 4-30=-431/27, 9-24=-1619/0, 9-25=0/1194, 8-25=-1155/0, 8-27=0/843, 6-27=-652/0, 6-28=0/750, 5-28=-323/0, 17-19=-946/0, 17-20=0/550, 16-20=-470/84, 16-21=-317/90, 12-24=-1316/0, 12-23=0/876, 13-23=-920/0, 13-22=0/936, 14-22=-417/0								

## 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.







3x6 FP =



# NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 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.

16-7-8

- 6) CAUTION. Do not erect truss backwards.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 222 lb down at 4-1-4, and 576 Ib down at 15-1-12 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: 23-39=-10, 1-22=-100 Concentrated Loads (lb)





29-7-8



🛕 WARNING - Verify design pa eters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MTek® connectors. This does not have a seed only upon parameters show, 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of truss systems, see **AVSUTPH Quelity Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



			14-4-0			
I			14-4-0			1
Plate Offsets (X,Y)	[1:Edge,0-1-8], [4:0-1-8,Edge], [11:0-1-8	,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 IRC2015/TPI2014	<b>CSI.</b> TC 0.60 BC 0.87 WB 0.38 Matrix-S	DEFL. in Vert(LL) -0.19 Vert(CT) -0.25 Horz(CT) 0.04	(loc) I/defl L/d 12-13 >906 480 12-13 >687 360 9 n/a n/a	<b>PLATES</b> MT20 Weight: 71 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI	P No.1 (flat) P No.1 (flat) P No.3 (flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
REACTIONS. (siz	e) 15=Mechanical, 9=0-3-8 Brav 15=775(LC 1), 9=768(LC 1)					

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

TOP CHORD 2-3=-1559/0, 3-4=-2384/0, 4-5=-2550/0, 5-6=-2550/0, 6-7=-1538/0

 
 BOT CHORD
 14-15=0/947, 13-14=0/2143, 12-13=0/2550, 11-12=0/2550, 10-11=0/2118, 9-10=0/954

 WEBS
 2-15=-1188/0, 2-14=0/797, 3-14=-761/0, 3-13=0/398, 7-9=-1194/0, 7-10=0/760, 6-10=-755/0, 6-11=0/740, 5-11=-317/0, 4-13=-437/18

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.











L	8-2-4	8-2-8	24-11-8			
	8-2-4	0-0-4	16-9-0			
Plate Offsets (X,Y)	[1:Edge,0-1-8], [13:0-1-8,Edge]	, [21:0-1-8,Edge], [26:0-1-8,Edge				
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING- 2-0. Plate Grip DOL 1.0. Lumber DOL 1.0. Rep Stress Incr N Code IRC2015/TPI2014	0         CSI.           00         TC         0.85           00         BC         0.86           O         WB         0.54           4         Matrix-S	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.21         21-22         >964         480           Vert(CT)         -0.28         21-22         >719         360           Horz(CT)         0.05         17         n/a         n/a	PLATES         GRIP           MT20         244/190           Weight: 125 lb         FT = 20%F, 11%E		
LUMBER- TOP CHORD     BRACING- 2x4 SP No.1(flat)       BOT CHORD     2x4 SP No.1(flat)       WEBS     2x4 SP No.3(flat)       BOT CHORD     BOT CHORD       Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.       BOT CHORD     Rigid ceiling directly applied or 6-0-0 oc bracing.						
REACTIONS. (size) 28=Mechanical, 25=0-3-8, 17=0-3-8 Max Grav 28=1746(LC 3), 25=1571(LC 1), 17=851(LC 7)						
FORCES. (lb) - Max. TOP CHORD 1-28 7-8= 13-1	FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       1-28=-1403/0, 2-3=-629/297, 3-4=-629/297, 4-5=-629/297, 5-6=0/1219, 6-7=0/1219, 7-8=-1123/0, 8-10=-2493/0, 10-11=-2493/0, 11-12=-3157/0, 12-13=-300         Substart       Substart					
BOT CHORD       27-28=-53/2(4, 26-27=-297/629, 25-26=-730/183, 24-25=-35/277, 22-24=0/1926, 21-22=0/2904, 20-21=0/3157, 19-20=0/3157, 18-19=0/2432, 17-18=0/1059         WEBS       2-28=-532/70, 2-27=-303/257, 5-25=-823/0, 5-26=0/878, 4-26=-429/0, 15-17=-1326/0, 15-18=0/917, 14-18=-871/0, 14-19=0/501, 7-25=-1524/0, 7-24=0/1128, 8-24=-1076/0, 8-22=0/753, 11-22=-559/0, 11-21=0/624, 12-21=-277/0, 13-19=-602/0						
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.						

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 17-28=-10, 1-16=-100

Concentrated Loads (lb)

Vert: 1=-1350

November 9,2021







L	8-2-8	3-4-4		24-11-8		4
Plate Offsets (X V)	8-2-8 0	- <u>1-12</u> 3 Edge] [24:0-1-8 Edge]	[34·Edge 0-1-8]	16-7-4		
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 IRC2015/TPI2014	CSI. TC 0.72 BC 0.88 WB 0.66 Matrix-S	DEFL.         ii           Vert(LL)         -0.18           Vert(CT)         -0.24           Horz(CT)         0.03	n (loc) l/defl 3 22-23 >999 4 22-23 >825 3 20 n/a	L/d 480 360 n/a	PLATES         GRIP           MT20         244/190           Weight: 134 lb         FT = 20%F, 11%E
Bit is a construction in 2010 in 2010 in 2010 in 2011 in 2010						
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       4-5=0/372, 5-6=0/372, 6-7=0/2805, 7-9=0/2806, 9-10=-255/233, 10-12=-1747/0, 12-13=-1747/0, 13-15=-2589/0, 15-16=-2589/0, 16-17=-2406/0, 17-18=-1570/0         BOT CHORD       29-30=-1225/0, 28-29=-1225/0, 27-28=-1194/0, 25-27=0/1076, 24-25=0/2211, 23-24=0/2589, 22-23=0/2589, 21-22=0/2158, 20-21=0/952         WEBS       6-28=-1983/0, 6-29=0/505, 6-30=0/101, 4-30=-472/0, 4-31=0/251, 9-28=-2137/0, 9-27=0/1383, 10-27=-1347/0, 10-25=0/837, 18-20=-1191/0, 18-21=0/804, 17-21=-766/0, 17-22=0/375, 16-22=-401/0, 13-25=-579/0, 13-24=0/628, 15-24=-253/0						
NOTES- 1) Unbalanced floor lin 2) All plates are 1.5x3 3) Plates checked for 4) Provide mechanica joint 30 and 239 lb 5) Recommend 2x6 st Strongbacks to be a 6) CAUTION, Do not ef 7) Hanger(s) or other chord. The design/ 8) In the LOAD CASE LOAD CASE(S) Star 1) Dead + Floor Live (	re loads have been considered for this de MT20 unless otherwise indicated. a plus or minus 1 degree rotation about i l connection (by others) of truss to bearin rongbacks, on edge, spaced at 10-0-0 c attached to walls at their outer ends or re erect truss backwards. connection device(s) shall be provided st selection of such connection device(s) is (S) section, loads applied to the face of the dard balanced): Lumber Increase=1.00, Plate	esign. Is center. Ig plate capable of withst ic and fastened to each tr strained by other means. Ifficient to support concer the responsibility of othe he truss are noted as fror Increase=1.00	anding 516 lb uplift at joi russ with 3-10d (0.131" > ntrated load(s) 407 lb do rs. nt (F) or back (B).	nt 29, 346 lb uplift ( 3") nails. wn at 10-5-12 on	at top	CARG Data

Vert: 20-34=-10, 1-19=-100 Concentrated Loads (lb)

Vert: 36=-327(B)

FORMER November 9,2021

GA GILS







<b> </b>	8-2-4	8-2-8		24-11-8		
Plate Offsets (X,Y)	8-2-4 [1:Edge,0-1-8], [13:0-1-8,Edge], [	0-0-4 21:0-1-8,Edge], [26:0-1-8,Edge]		16-9-0		· · · · · · · · · · · · · · · · · · ·
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 IRC2015/TPI2014	CSI. TC 0.74 BC 0.78 WB 0.54 Matrix-S	DEFL. ir Vert(LL) -0.21 Vert(CT) -0.28 Horz(CT) 0.05	n (loc) I/defi L/d 21-22 >964 480 21-22 >719 360 17 n/a n/a	<b>PLATES</b> MT20 Weight: 125 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD         BRACING- TOP CHORD           BOT CHORD         2x4 SP No.1(flat)           BOT CHORD         2x4 SP No.1(flat)           WEBS         2x4 SP No.3(flat)           BOT CHORD         Rigid ceiling directly applied or 6-0-0 oc bracing.					oc purlins,	
REACTIONS. (s Max Max	REACTIONS. (size) 28=Mechanical, 25=0-3-8, 17=0-3-8 Max Uplift 28=-14(LC 4) Max Grav 28=396(LC 3), 25=1571(LC 1), 17=851(LC 7)					
FORCES.         (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.           TOP CHORD         2-3=-629/297, 3-4=-629/297, 4-5=-629/297, 5-6=0/1219, 6-7=0/1219, 7-8=-1123/0, 8-10=-2493/0, 10-11=-2493/0, 11-12=-3157/0, 12-13=-3157/0, 13-14=-2793/0, 14-15=-1763/0						
BOT CHORD 27 21 WEBS 2-2 15 8-2	CHORD 27-28=-56/423, 26-27=-297/629, 25-26=-730/184, 24-25=-34/277, 22-24=0/1927, 21-22=0/2904, 20-21=0/3157, 19-20=0/3157, 18-19=0/2432, 17-18=0/1059 3S 2-28=-531/70, 2-27=-302/259, 5-25=-823/0, 5-26=0/878, 4-26=-429/0, 15-17=-1326/0, 15-18=0/917, 14-18=-871/0, 14-19=0/501, 7-25=-1524/0, 7-24=0/1128, 8-24=-1076/0, 8-22=0/753, 11-22=-559/0, 11-21=0/624, 12-21=-277/0, 13-19=-603/0					

# 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 28.
- 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.







L.			8-4-4			
			8-4-4			1
Plate Offsets (X,Y)	[1:Edge,0-1-8], [8:0-1-8,Edge], [10:Edge	e,0-1-8], [11:0-1-8,0-1-8]				
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 NO Code IRC2015/TPI2014	CSI. TC 0.39 BC 0.27 WB 0.22 Matrix-S	DEFL.         in           Vert(LL)         -0.04           Vert(CT)         -0.05           Horz(CT)         0.01	(loc) I/defl L/d 9-10 >999 480 9-10 >999 360 7 n/a n/a	PLATES MT20 Weight: 43 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x BOT CHORD 2x WEBS 2x	I SP No.1(flat) I SP No.1(flat) I SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
REACTIONS.	(size) 10=Mechanical, 7=0-3-8 ax Grav 10=3846(LC 1), 7=440(LC 1)					

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

TOP CHORD 1-10=-3459/0, 2-3=-821/0, 3-4=-821/0, 4-5=-821/0

BOT CHORD 9-10=0/493, 8-9=0/821, 7-8=0/489

WEBS 2-10=-619/0, 2-9=0/460, 5-7=-609/0, 5-8=0/469

## 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.

# LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 7-10=-10, 1-6=-100 Concentrated Loads (lb)

Vert: 1=-3400









3x6 =

			3-11-8			
Plate Offsets (X,Y)	[1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,	Edge]				
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. i	n (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) -0.00	) 7 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.06	Vert(CT) -0.00	0 7 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	) 5 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 24 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF	P No.1(flat)	BRACING- TOP CHORD	Structural wood sheathing di	ectly applied or 3-11-	8 oc purlins,	
BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)			BOT CHORD	except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.		

3-11-8

#### REACTIONS. (size) 8=Mechanical, 5=Mechanical Max Grav 8=204(LC 1), 5=204(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.

a) 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.

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	1		3-8-8	
Plate Offsets (X,Y)	[9:0-1-8,0-1-8]			
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 NO Code IBC2015/TPI2014	CSI. TC 0.05 BC 0.06 WB 0.07 Matrix-S	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.00         7         >999         480           Vert(CT)         -0.00         7         >999         360           Horz(CT)         0.00         5         n/a         n/a	PLATES         GRIP           MT20         244/190           Weight: 27 lb         ET = 20%E 11%E
				1101gtill 21 10 11 - 20701 ; 11702
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	P No.1(flat) P No.1(flat)		BRACING- TOP CHORD Structural wood sheathing dir except end verticals.	rectly applied or 3-8-8 oc purlins,

BOT CHORD

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

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

2x4 SP No.3(flat)

Max Grav 8=242(LC 1), 5=236(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-8=-294/0, 3-5=-291/0

NOTES-

WFBS

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.

6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 122 lb down at 1-10-4 on top

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

Uniform Loads (plf)

Vert: 5-8=-10, 1-4=-100

Concentrated Loads (lb) Vert: 10=-104(F)



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 **ANS/TPH 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



3x6 =

except end verticals.

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

				3-5-0 3-5-0	I
LOADING TCLL TCDL BCLL BCDL	G (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 NC Code IRC2015/TPI2014	CSI.           TC         0.16           BC         0.21           WB         0.16           Matrix-S	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.01         7         >999         480           Vert(CT)         -0.01         7         >999         360           Horz(CT)         0.00         5         n/a         n/a	PLATES         GRIP           MT20         244/190           Weight: 26 lb         FT = 20%F, 11%E
LUMBER TOP CHO	- DRD 2x4 S	P No.1(flat)		BRACING- TOP CHORD Structural wood sheath	ning directly applied or 3-5-0 oc purlins,

BOT CHORD

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

REACTIONS. (size) 8=Mechanical, 5=Mechanical Max Grav 8=596(LC 1), 5=427(LC 1)

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

TOP CHORD 2-3=-528/0

BOT CHORD 7-8=0/528, 6-7=0/528, 5-6=0/528 WEBS 2-8=-684/0, 3-5=-684/0

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 705 lb down at 1-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

6) 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: 5-8=-10, 1-4=-100 Concentrated Loads (lb) Vert: 2=-675(B)



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