

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Re: P240542-01 Roof - HR Lot 191

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Pages or sheets covered by this seal: I66262039 thru I66262091

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

Missouri COA: Engineering 001193



June 14,2024

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.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/18/2024 8:50:08

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	A01	Half Hip Girder	1	2	Job Reference (optional)	166262039

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:29 ID:4_M9To87?QSqmdKZ76eMvozeBhO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:57.3

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP			
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.37	Vert(LL)	0.19	15-16	>999	240	MT20	197/144			
TCDL		10.0	Lumber DOL	1.15		BC	0.90	Vert(CT)	-0.33	15-16	>562	180					
BCLL		0.0*	Rep Stress Incr	NO		WB	0.44	Horz(CT)	0.06	10	n/a	n/a					
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 285 lb	FT = 20%			
LUMBER				1)	2-ply truss to	be connected to	ogether wi	th 10d		12) Thi	s truss is	s desig	ned in accordanc	e with the 2018			
TOP CHORD	2x4 SP N	0.2			(0.131"x3") n	ails as follows:				Inte	rnationa	I Resi	dential Code sect	ions R502.11.1 and			
BOT CHORD	2x4 SP 16	650F 1.5E	*Except* 13-10:2x4	SP	Top chords of	onnected as foll	ows: 2x4	- 1 row at 0-9-	0	R80	02.10.2 a	and ref	erenced standard	d ANSI/TPI 1.			
	No.2			_	OC.		(- II 0			13) Graphical purlin representation does not depict the s							
WEBS	2x4 SPF I	No.3 *Exce	ept* 18-2:2x4 SP No.	2	Bottom chord	is connected as	follows: 2	x4 - 1 row at		or the orientation of the purlin along the top and/or							
BRACING					Web connect	v4 - 1 row	at 0-9-0 oc		DOTTOM Chord. 14) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-r								
TOP CHORD	Structura	I wood she	athing directly applie	ed or		considered equi	ally annlie	d to all plies		14) N/		ideline		0.140 × 0) 10e-halls			
	6-0-0 oc p	purlins, ex	cept end verticals, a	nd -/	except if note	ed as front (F) or	back (B)	face in the LC	DAD		ASE/S	N Sta	ndard				
	2-0-0 0C p	ing directly	-0 max.): 3-9.	_	CASE(S) sec	tion. Ply to ply c	onnection	s have been		1) De	ead + Ro	of Live	e (balanced): I un	ber Increase=1 15			
BOTCHORD	bracing	ing unechy	applied of 10-0-0 of		provided to d	listribute only loa	ds noted	as (F) or (B),		PI	ate Incre	ease=1	.15				
REACTIONS	(size)	10- Mech	anical 14-0-3-8		unless other	wise indicated.				Ur	niform Lo	oads (I	b/ft)				
	(0120)	18=0-5-8		3)	Unbalanced	roof live loads ha	ave been	considered for	r	Vert: 1-2=-70, 2-3=-70, 3-9=-70, 10-18=-20							
	Max Horiz	18=124 (I	LC 9)	•	this design.		1 (0			Co	oncentra	ted Lo	ads (lb)				
	Max Uplift	10=-404 ((LC 9), 14=-133 (LC	9), ⁴⁾	Wind: ASCE	7-16; Vult=115n	nph (3-sec	cond gust)			Vert: 3=	-37 (B), 6=-37 (B), 13=-	-18 (B), 17=-18 (B),			
		18=-509 ((LC 8)			i; TCDL=6.0psi;	BCDL=0.	Upsi; n=35il; ERS (envelor			15=-18	(B), 5=	-37 (B), 11=-18 (B), 8=-37 (B), 20=-37			
	Max Grav	10=1400	(LC 1), 14=576 (LC	1),	exterior zone	and C-C Exterio	oseu, iviv r(2F) -1-	5-0 to 3-7-0))))		(B), 21=	-37 (B), 22=-37 (B), 24=	=-37 (B), 25=-37 (B),			
		18=1592	(LC 1)		Interior (1) 3-	7-0 to 3-11-4. E	xterior(2R) 3-11-4 to 11	-0-2.		26=-37	(B), 27	'=-37 (B), 28=-37	(B), 29=-37 (B),			
FORCES	(lb) - Max	timum Corr	pression/Maximum		Interior (1) 1	1-0-2 to 29-4-4 z	one; canti	lever left and	right		30=-110)(D),3 (D) 35	(D) = -10 (D), 32 = -10 (D) = -10 (D)	$\delta(D), 33 = -1\delta(D),$			
	Tension				exposed ; en	d vertical left and	d right exp	osed;C-C for	0		3818	(D), 30 (R) 30	=-18 (B), 30=-18	(D), 37 = 10 (D),			
TOP CHORD	1-2=0/35,	, 2-3=-1908	3/598, 3-4=-1765/59 ⁻	1,	members and forces & MWFRS for reactions shown;								(E)				
	4-5=-3230	6/1035, 5- <i>i</i> 0/710	(=-3188/999, 	22	Lumber DOL	=1.60 plate grip	DOL=1.6)									
	2-1814	9/7 19, 0-9= 85/577	=-70/70, 9-10=-201/1	22, 5)	Provide adec	uate drainage to	prevent	water ponding	J.								
BOT CHORD	17-18=-2	13/170 16	-17=-1060/3328	6)	All plates are	3x4 M120 unles	ss otherwi	se indicated.						The			
201 0110112	15-16=-10	060/3328.	14-15=-1032/3236.	()	I his truss ha	s been designed	tor a 10.	J pst bottom	da				O DE M	AL WALL			
	12-14=-10	032/3236,	11-12=-1001/3188,	8)	* This trues h	a nonconcurren	t with any	other live load	us. Inef				FE OF I	NISS D			
	10-11=-73	31/2329		0)	on the bottor	n chord in all are	as where	a rectandle	por			A		N.S			
WEBS	2-17=-53	5/1837, 3-1	17=-1/303,		3-06-00 tall b	v 2-00-00 wide v	will fit betw	veen the botto	m			A	SCOT	IM. P.V.			
	4-17=-17	78/528, 4-1	16=0/427, 4-15=-113	/32,	chord and ar	y other member	s.					a	7 SEVI	ER \V			
	5-15=-420	6/234, 5-12	2=-53/40, 7-12=-41/1	27, 9)	Bearings are	assumed to be:	Joint 18 S	SP 1650F 1.5	Ξ			10+					
	/-11=-962	2/316, 8-11 55/750	1=-13/682,		crushing cap	acity of 565 psi,	Joint 14 S	SP 1650F 1.5E	Ξ			X 2	LTTS :	Kanlas			
0-10=-2555/759					crushing cap	acity of 565 psi.						S C		Curry B			
NOTES				10) Refer to gird	er(s) for truss to	truss conr	nections.				23	S/ NUM	BER /			
				11) Provide mec	nanıcal connecti	on (by oth	ers) of truss to	D			Y X Y	\frown PE-2001	018807 1054			

bearing plate capable of withstanding 404 lb uplift at joint 10, 509 lb uplift at joint 18 and 133 lb uplift at joint 14

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 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 besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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/TPH1 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.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	A02	Нір	1	1	Job Reference (optional)	166262040

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:30 ID:53Ttk2zm_J0Bw4Xd6OsIg8zeBgK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

BO Page: 1



Scale = 1:55.4

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

	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-, -, 5-1													
Loading		(nsf)	Spacing	2-0-0		CSI		DEEL	in	(loc)	l/defl	۱/ط	PLATES	GRIP	
TCLL (roof)		(p3i) 25.0	Plate Grin DOI	1 15			0.95	Vert(LL)	-0.26	12-13	~725	240	MT20	244/100	
		20.0		1.15			0.55	Vert(CT)	-0.20	12-13	> 260	100	11120	244/130	
		10.0		1.15			0.95		-0.50	12-13	>309	160			
BULL		0.0	Rep Stress Incr	NU		VVB	0.84	HOIZ(CT)	0.09	8	n/a	n/a			
BCDL		10.0	Code	IRC2018	B/TPI2014	Matrix-S							Weight: 142 lb	FI = 20%	
				2)	Wind ASCE	7-16 [.] Vult=115mp	h (3-sec	cond aust)							
TOP CHORD	2x4 SP 1650	0F 1 5F *	Excent* 1-3.2v4 SP	_,	Vasd=91mp	n: TCDL=6.0psf: B	CDL=6.	Opsf: h=35ft:							
	No 2	01 1.02			Ke=1.00: Ca	t. II: Exp C: Enclos	ed: MW	FRS (envelo	pe)						
	2x4 SP No 2	2 *Excent	* 10-14·2v4 SP 165	٦E	exterior zone	and C-C Exterior	(2E) -1-	5-0 to 3-7-0.	/						
	1.5E		10 14.224 01 1000	51	Interior (1) 3-	-7-0 to 5-11-4. Exte	erior(2R) 5-11-4 to 13	3-0-2.						
WEBS	2x4 SPF No	3 *Exce	nt* 14-2·2x4 SP No 2	>	Interior (1) 13	3-0-2 to 29-3-4 zor	ne: canti	lever left and	· · /						
112BO	8-7:2x6 SPF	= No 2	pt 112.2x101 110.	-,	right exposed	d ; end vertical left	and righ	t exposed;C	-C						
BRACING					for members	and forces & MW	FRS for	reactions sho	own;						
TOP CHORD	Structural w	and she	athing directly applied	d or	Lumber DOL	.=1.60 plate grip D	OL=1.6)							
	3-8-14 oc ni	urlins ex	cent end verticals	and 3)	Provide adeo	quate drainage to p	prevent	water ponding	g.						
	2-0-0 oc pu	rlins (3-6-	-14 max.): 3-7.	4)	This truss ha	is been designed f	or a 10.) psf bottom							
BOT CHORD	Rigid ceiling	directly	applied or 6-9-2 oc		chord live loa	ad nonconcurrent v	vith any	other live loa	ads.						
	bracing.	, ,		5)	* This truss h	nas been designed	for a liv	e load of 20.	0psf						
WEBS	1 Row at mi	idpt	4-13, 4-9		on the bottor	n chord in all areas	s where	a rectangle							
WEBS	2 Rows at 1	/3 pts	6-8		3-06-00 tall b	oy 2-00-00 wide wi	ll fit betv	veen the bott	om						
REACTIONS	(size) 8:	= Mecha	nical. 11=0-3-8. 14=(0-5-8	chord and ar	ny other members.			_						
	Max Horiz 1	4=155 (L	C 9)	6)	Bearings are	assumed to be: J	oint 14 S	SP 1650F 1.5	5E						
	Max Uplift 8	=-279 (L	C 8), 11=-17 (LC 9),		crushing cap	acity of 565 psi, Jo	bint 11 S	P 1650F 1.5	E						
	1	4=-350 (I	LC 8)		crushing cap	acity of 565 psi.		a otion o							
	Max Grav 8	⊨1218 (Ľ	.C 1), 11=168 (LC 1)	/) 	Refer to gird	er(s) for truss to tru	JSS CON	iections.	4.0						
	1-	4=1345 (LC 1)	8)	Provide med	nanical connection	i (by oth	ers) or truss	10 +						
FORCES	(lb) - Maxim	num Com	pression/Maximum		ioint 8 350 lb	capable of withsia	anung 2 ind 17 lk	unlift at ioint	ι + 1 1						
	Tension			9)	This truss is	designed in accord	dance w	ith the 2018							
TOP CHORD	1-2=0/35, 2-	-3=-1921	/500, 2-14=-1310/48	1, "	International	Residential Code	sections	R502 11 1 a	and				Com	TON	
	7-8=-295/17	76, 3-4=-′	1761/509,		R802.10.2 at	nd referenced stan	dard AN	ISI/TPI 1.					OF M	11So D	
	4-6=-2241/5	569, 6-7=	-138/98	10) Graphical pu	rlin representation	does no	ot depict the	size			1	750	~0.V	
BOT CHORD	13-14=-289/	/237, 12-	13=-705/2654,		or the orienta	ation of the purlin a	long the	top and/or				A	NY COM	New Y	
	11-12=-705/	/2654, 9-	11=-705/2654,		bottom chord	i.	0	•				A.	S/ SCOTT	M. YYY	λ
	8-9=-571/22	241		LC	AD CASE(S)	Standard						HC	/ SEVI	ER	a
WEBS	3-13=0/272,	, 4-13=-1	060/254, 4-12=-33/1	50,	(-)							8		(*** \ *)	И
	4-9=-448/18	36, 6-9=0	/392, 6-8=-2280/520	,								84			8
	2-13=-382/1	1/16										8-	Coltra	Server)	8
NOTES												47	DE 2001	10007	9
1) Unbalance	ed roof live loa	ads have	been considered for									N.	PE-20010	1000/201	,
this desig	n.											Y	Nº CO	1.SA	
													Slow.	ENA	
													ANA NA		
													Vac		

June 14,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	A03	Roof Special	1	1	Job Reference (optional)	166262041

|<u>-1-5-0</u> | 1-5-0

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:30 ID:Srs1UCfvoW4EehpOO9sRxxzeBfS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

29-6-0 28-2-12 7-11-4 13-9-4 19-7-4 25-5-4 27-2-12 -0-01-3-4 7-11-4 5-10-0 5-10-0 5-10-0 1-9-8 3x4= 4x6= 3x4 = 3x4= 3x4 = 4x4 =



Scale = 1:58.6

Plate Offsets (X, Y): [2:0-2-8.Edge]. [9:0-2-0.0-2-13]

	(X, T): [2:0-2-0,Euge]	, [3.0-2-0,0-2-13]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	3/TDI2014	CSI TC BC WB Matrix-S	0.83 0.76 0.86	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.22 -0.46 0.05	(loc) 14-16 12-13 11	l/defl >856 >356 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS	GRIP 197/144 197/144 ET = 20%
BCDL	10.0	Code	IKC2010	D/1F12014	Matrix-S	-						weight. 146 b	FI = 20%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.2 *Excep 1.5E 2x4 SP No.2 *Excep 1.5E 2x4 SPF No.3 *Exce No.2	ot* 1-3:2x4 SP 1650F ot* 15-11:2x4 SP 165 ept* 17-2,11-10:2x4 ;	2) 50F SP	Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3 Interior (1) 1 27-2-12, Inte	7-16; Vult=115m n; TCDL=6.0psf; I t. II; Exp C; Enclo and C-C Exterio -7-0 to 7-11-4, Ex 5-0-2 to 25-5-4, E trior (1) 27-2-12 to	ph (3-sec BCDL=6.0 bsed; MW r(2E) -1-5 tterior(2R) tterior(2R) cxterio	ond gust))psf; h=35ft; FRS (envelop i-0 to 3-7-0, i 7-11-4 to 15 E) 25-5-4 to , Exterior(2E) pd right	pe) 5-0-2,					
BRACING TOP CHORD	Structural wood she 4-5-13 oc purlins, e 2-0-0 oc purlins (3-8	eathing directly applie except end verticals, 3-6 max.): 3-7, 8-9.	ed or and	exposed ; en members an Lumber DOL	d vertical left and d forces & MWFF =1.60 plate grip I	l right exp S for rea DOL=1.60	osed;C-C for ctions shown	r 1;					
BOT CHORD	Rigid ceiling directly bracing.	applied or 7-4-3 oc	3) 4)	All plates are	auate drainage to MT20 plates unl	ess other	vater ponding wise indicate	g. ed.					
REACTIONS	(size) 11= Mect 17=0-5-8 Max Horiz 17=135 (Max Uplift 11=-259 17=-335 Max Grav 11=1065 17=1210	hanical, 14=0-3-8, LC 9) (LC 9), 14=-39 (LC 8 (LC 8) (LC 1), 14=463 (LC (LC 1)	5) 6) (), 1), 7)	* This truss ha chord live loa * This truss h on the bottor 3-06-00 tall k chord and ar Bearings are	is been designed ad nonconcurrent has been designe in chord in all area by 2-00-00 wide w hy other members assumed to be:	tor a 10.0 with any d for a liv as where vill fit betw s. Joint 17 S	oper bottom other live loa e load of 20.0 a rectangle veen the botto P No.2 crush	ids. Opsf om hing					
FORCES	(lb) - Maximum Con Tension	npression/Maximum	0	capacity of 5	65 psi.	P 1050F	1.5E crushin	g					
TOP CHORD	1-2=0/35, 2-3=-1659 4-6=-1545/526, 6-7= 8-9=-69/92, 9-10=-8 10-11=-82/68	9/478, 3-4=-1487/493 =-933/327, 7-8=-979, 30/93, 2-17=-1121/47	3, 9) /323, ² 2,	Provide mec bearing plate joint 17, 259	er(s) for truss to t hanical connectic capable of withs lb uplift at joint 1	russ conr on (by oth standing 3 1 and 39	ections. ers) of truss t 35 lb uplift at b uplift at joir	to t ht				TE OF M	AISSO
BOT CHORD	16-17=-354/335, 14 13-14=-605/1737, 1 11-12=-233/626	-16=-605/1737, 2-13=-574/1574,	10) This truss is International	designed in acco Residential Code	rdance w e sections	th the 2018 R502.11.1 a	and			A	S SCOTI	M.
WEBS	3-16=0/193, 4-16=-4 6-13=-80/85, 6-12=- 8-12=-185/708, 8-1 2-16=-267/1232	441/170, 4-13=-332/ -801/308, 7-12=0/10 1=-1182/352,	166, 11 7,	or the orienta bottom chore	Ind referenced sta Irlin representatio ation of the purlin d. Standard	n does no along the	top and/or	size				Cotto U	Server 1
NOTES 1) Unbalance this design	ed roof live loads have n.	e been considered fo	r	/AD 0A3E(3)	Stanuaru						A.	PE-20010	14.2024

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 toulsable 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	A04	Нір	1	1	Job Reference (optional)	166262042

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:31 ID:EkzC0?nEu5n2I_QGKB1ECZzeBe?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:57.5

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.84 0.94 0.90	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.24 -0.50 0.05	(loc) 13-14 13-14 8	l/defl >793 >375 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 149 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP 1650F 1.5E 1 No.2 2x4 SPF No.3 *Exce Structural wood shee 4-0-1 oc purlins, exc 2-0-0 oc purlins (4-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 8= Mecha Max Horiz 14=105 (L Max Uplift 8=-202 (L 14=287 (L Max Grav 8=1037 (L 14=1185 (L)	*Except* 11-14:2x4 \$ pt* 14-2,8-7:2x4 SP athing directly applie cept end verticals, ar -8 max.): 4-6. applied or 8-0-10 oc 5-13, 5-9 nical, 12=0-3-8, 14= .C 11) C 9), 12=-129 (LC 8) LC 8) .C 1), 12=515 (LC 1) (LC 1)	2 SP No.2 dd or nd 3 4 0-5-8 5), 6	 Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3: Interior (1) 1: 29-4-4 zone; vertical left a forces & MW DOL=1.60 pl Provide ader This truss ha chord live loa * This truss ha on the bottor 3-06-00 tall b chord and ar Bearings are canacity of 5 	7-16; Vult=115mp n; TCDL=6.0psf; B t. II; Exp C; Enclos and C-C Exterior 7-0 to 9-11-4, Ext 7-0-2 to 23-5-4, Ex cantilever left and nd right exposed; FRS for reactions ate grip DOL=1.60 juate drainage to p s been designed f id nonconcurrent v has been designed in chord in all areaa by 2-00-00 wide wi y other members. assumed to be: J 65 nsioint 12 SE	ch (3-sec CDL=6. (2E) -1-4 erior(2R (2E) -1-4 erior(2R (2E) -1-4 erior(2R (2E) -1-4 erior(2R (2E) -1-4 erior(2R) (2E) -1-4 eri	cond gust) Dpsf; h=35ft; (FRS (envelop 5-0 to 3-7-0,) 9-11-4 to 17) 23-5-4 to posed ; end nembers and Lumber water ponding 0 psf bottom other live loa re load of 20.1 a rectangle veen the bott	pe) 7-0-2, I g. ads. Opsf om hing city					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	7	of 565 psi.	r(c) for truce to tru	- 110.2 0		спу					
TOP CHORD	1-2=0/35, 2-3=-168/0 4-5=-1376/408, 5-6= 6-7=-1157/337, 2-14 7-8=-1007/328	69, 3-4=-1503/401, 1047/365, 300/220,	8) Provide mec bearing plate joint 8, 287 II	hanical connection capable of withsta puplift at joint 14 a	n (by oth anding 2 and 129	ers) of truss t 202 lb uplift at lb uplift at joir	to t nt					
BOT CHORD	13-14=-505/1319, 12 10-12=-357/1305, 9- 8-9=-61/69	2-13=-357/1305, ·10=-357/1305,	9) This truss is International	designed in accord Residential Code	dance w sections	ith the 2018 R502.11.1 a	and				E OF M	AISS
WEBS	3-13=0/244, 4-13=0/ 5-10=-428/248, 5-9= 7-9=-271/1105, 3-14	/217, 5-13=-122/116, 408/98, 6-9=-91/15 -=-1449/416	, 1 1,	0) Graphical pu or the orienta	rlin representation ation of the purlin a	does no	ot depict the set top and/or	size			A	S SCOT	M.
NOTES			L	OAD CASE(S)	Standard						RA		
1) Unbalance	ed roof live loads have	been considered for	. –	(•)							X	Ats.	Xaulia

this design.

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June 14,2024

NUMBER

PE-200101880

SIONAL

ROFF

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	A05	Нір	1	1	Job Reference (optional)	166262043

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:31

2-11-8

9

Page: 1 ID:X90YIehHE7EPoVfgERtqINzeBcq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 29-6-0 |<u>-1-5-0</u> |1-5-0 5-7-13 11-11-4 16-8-4 21-5-4 27-8-11 5-7-13 6-3-7 4-9-0 4-9-0 6-3-7 1-9-5 4x4 = 3x8= 4x4 = 20 ____19 0-1-9 5 6 5-7-12 412 <u>م</u> 4 1.5x4 u 1 21 3x4 = 3x4 -3 7 18 22 8 5-7-12 17 5-6-3 5-6-3 4x4 🚅 2 1-8-0 16 ₩ 8 1312 11 15 14 10 3x6= 3x6 II 3x8= 3x8= 3x8= 3x4= 1.5x4 u 16-8-4 11-9-8 15-10-0 21-7-0 29-6-0 5-7-13 5-7-13 6-1-11 4-10-12 7-11-0 4-0-8 0-10-4 Scale = 1:57.5 Plate Offsets (X, Y): [15:0-3-8,0-1-8]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.61 0.86 0.60	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.11 -0.19 0.04	(loc) 10-11 10-11 9	l/defl >999 >872 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 158 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP 1650F 1.5E ⁻¹ No.2 2x4 SPF No.3 *Exce Structural wood shea 4-2-9 oc purlins, exc 2-0-0 oc purlins, for Rigid ceiling directly bracing, Except: 8-3-6 oc bracing: 14 (size) 9= Mecha Max Horiz 16=96 (LC Max Uplift 9=-206 (LI 16=-290 (I Max Grav 9=984 (LC 16=1139 (*Except* 12-16:2x4 - pt* 16-2,9-8:2x4 SP athing directly applie cept end verticals, ar -15 max.): 4-6. applied or 10-0-0 oc -15. nical, 13=0-3-8, 16= 2 9) C 9), 13=-105 (LC 8 LC 8) 2 1), 13=615 (LC 1), (LC 1) proceing/Maximum	2) SP No.2 ed or nd 3) -0-5-8 3) (-5-8 5)	Wind: ASCE Vasd=91mph Ke=1.00; Cat exterior zone Interior (1) 3- 19-0-2, Interi to 28-6-2, Int left and right exposed;C-C reactions sho DOL=1.60 Provide adec This truss ha chord live loa * This truss ha on the bottom 3-06-00 tall b chord and an Bearings are	7-16; Vult=115mph r; TCDL=6.0psf; BC t. II; Exp C; Enclose and C-C Exterior(2 7-0 to 11-11-4, Ext or (1) 19-0-2 to 21- erior (1) 28-6-2 to 2 exposed ; end vert for members and 1 own; Lumber DOL= quate drainage to p s been designed for an onconcurrent w has been designed for in chord in all areas by 2-00-00 wide will y other members. assumed to be: Jo	n (3-sec CDL=6. ed; MW 2E) -1-5 erior(2f 5-4, Ex 29-4-4 z ical left forces & 1.60 pla revent v or a 10. or a liv where fit betw int 16 S	ond gust) Dpsf; h=35ft; FRS (envelop -0 to 3-7-0, R) 11-14 to terior(2R) 21- ione; cantilev and right MWFRS for ate grip water ponding D psf bottom other live loa e load of 20.0 a rectangle veen the botto SP No.2 crush	oe) -5-4 er g. ds. Opsf om					
TOP CHORD	(ib) - Maximum Com Tension 1-2=0/35, 2-3=-1520 4-5=-1120/418, 5-6=	/434, 3-4=-1249/407 -990/396, 6-7=-1112	7, 7) 2/376, 8)	capacity of 5 of 565 psi. Refer to girde Provide mecl	65 psi, Joint 13 SP er(s) for truss to tru hanical connection	No.2 c ss conr (by oth	rushing capae nections. ers) of truss t	city :o					
BOT CHORD	7-8=-79/60, 2-16=-10 15-16=-189/196, 14- 13-14=-327/964, 11- 10-11=-327/964, 9-1	089/425, 8-9=-81/83 15=-501/1388, 13=-327/964, 0=-236/515	9)	bearing plate joint 16, 206 13. This truss is	capable of withsta lb uplift at joint 9 ar designed in accord	nding 2 nd 105 ance w	90 lb uplift at b uplift at joir ith the 2018	nt				TE OF M	AISSO,
WEBS NOTES 1) Unbalance	3-15=-203/153, 3-14 5-14=-90/271, 5-10= 7-10=-78/539, 2-15= 7-9=-1126/478, 5-11 ed roof live loads have	=-323/160, 4-14=-1/ -99/84, 6-10=-50/11 -322/1361, =-567/219 been considered for	140, 7 8, 10	International R802.10.2 ar) Graphical pu or the orienta bottom chore DAD CASE(S)	Residential Code s nd referenced stand rlin representation ation of the purlin al l. Standard	ections dard AN does no ong the	R502.11.1 a ISI/TPI 1. of depict the s top and/or	ind size			R.	SCOTT SEVI	ER *
this desigr	ı.										A.	PE-20010	L ENGL

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 toulsable 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



Cours June 14,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	A06	Hip Girder	1	2	Job Reference (optional)	166262044

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:31 ID:MsQg8KANpQHkbfiMarbCMpzeBcC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:63.7

Plate Offsets ((X, Y): [2:0-3-3,0-1-8],	[12:0-4-4,0-2-8], [13	8:0-2-8,0-4	-12], [17:0-2-8	,0-4-0], [18:0-3-0,0	0-3-4]							
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.79 0.89 0.89	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.19 -0.36 0.14	(loc) 7 13-15 12	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 398 lb	GRIP 244/190 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	BER CHORD 2x4 SP No.2 CHORD 2x4 SP No.2 *Except* 18-17,14-12:2x6 SPF No.2 S 2x4 SPF No.3 *Except* 21-2,13-11:2x4 SP No.2, 12-11:2x6 SPF No.2 SRS 2x4 SPF No.3 *Except* 21-2,13-11:2x4 SP No.2, 12-11:2x6 SPF No.2 CING 2x4 SP No.2 CING Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-5-10 max.): 6-8. CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17. CTIONS (size) 12=0-5-8, 21=0-5-8 Max Horiz				b be connected tog nails as follows: connected as follo ws staggered at i ds connected as f 5 - 2 rows stagger ted as follows: 2x ber 10-13 2x4 - 2 considered equal ed as front (F) or I ction. Ply to ply co distribute only load	gether wi ws: 2x4 - 0-9-0 oc. ollows: 2 ed at 0-9 4 - 1 row rows sta lly applie pack (B) onnection is noted	th 10d 1 row at 0-9- x4 - 1 row at -0 oc. at 0-9-0 oc, ggered at 0-2- d to all plies, face in the LO s have been as (F) or (B),	0 -0 PAD	10) Pro bea join 11) This Inte R80 12) Gra or ti bott 13) Use 8-11 con 14) Use	vide me tring plat t 21 and s truss is rnationa)2.10.2 a phical p he orien com chou s Simpso 6d Truss nect trus s Simpso	chanic e capa 1309 desig desig d Resid and ref urlin re tation o on Stro s) or ec ss(es) on Stro	al connection (by bble of withstandi b uplift at joint 12 ned in accordand dential Code sec erenced standarr presentation dor of the purlin along ng-Tie HGUS26 uivalent at 29-7- to back face of b ng-Tie HUS26 (1	 others) of truss to ng 466 lb uplift at 2. with the 2018 tions R502.11.1 and d ANSI/TPI 1. as not depict the size g the top and/or 2 (20-16d Girder, 9 from the left end to ottom chord. 14-10d Girder, 4-10d
REACTIONS	6-0-0 oc bracing: 16- (size) 12=0-5-8, Max Horiz 21=54 (LC Max Uplift 12=-1309	-17. 21=0-5-8 2 12) (LC 9), 21=-466 (LC (LC 1), 21=-2048 (LC	3) (28) (4)	Unless other Unbalanced this design. Wind: ASCE Vasd=91mpl	wise indicated. roof live loads ha 7-16; Vult=115m h; TCDL=6.0psf; E	ve been o ph (3-seo 3CDL=6.0	considered for cond gust) Dpsf; h=35ft;	-	LOAD (1) De Pla	ss) or eo nect trus CASE(S ead + Ro ate Incre	uivale ss(es) Star of Live ease=1	nt at 31-4-8 from to back face of b ndard e (balanced): Lur .15	the left end to ottom chord. nber Increase=1.15,
FORCES	(lb) - Maximum Com Tension 1-2=0/35, 2-3=-3285 5-6=-4937/1451, 6-7 7-8=-5044/1434, 8-9 9-10=-7082/1848, 10	/881, 3-5=-5134/143 =-5059/1437, =-3798/1069, 0-11=-7171/1819, 12=-468/1218	34,	Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 13-11-4, Exterior(2E) 13-11-4 to 19-5-4, Exterior(2R) 19-5-4 to 26-9-5, Interior (1) 26-9-5 to 33-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber							MIS		
BOT CHORD	2-21=-126/184, 19- 20-21=-126/184, 19- 18-19=0/116, 5-18=- 17-18=-1193/4718, 1 7-17=-257/115, 15-1 13-15=-1453/5570 1	20=-22/126, 12/436, 16-17=-9/7, 6=-34/95, 12-13189/487	5) 6) 7)	Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.								T M. IER	
WEBS NOTES	S 6-17=-1453/5570, 12-13=-189/487 8) S 6-17=-212/842, 8-15=-898/343, 11-13=-1619/6644, 3-20=-1463/511, 3-18=-432/1799, 6-18=-266/433, 15-17=-965/4030, 8-17=-619/2283, 9-15=-2358/748, 2-20=-714/2955, 9-13=-676/2171, 18-20=-844/3075, 10-13=-51/122 ES				¹ This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. Bearings are assumed to be: Joint 21 SP No.2 crushing capacity of 565 psi, Joint 12 SPF No.2 crushing capacity of 425 psi.							PE-2001	BER 018807

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Continued on page 2
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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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 BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	A06	Hip Girder	1	2	Job Reference (optional)	166262044

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:31 ID:MsQg8KANpQHkbfiMarbCMpzeBcC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Vert: 1-2=-70, 2-6=-70, 6-8=-70, 8-11=-70, 19-21=-20, 17-18=-20, 12-16=-20 Concentrated Loads (lb) Vert: 13=-3608 (B), 24=-687 (B)

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 toulsable 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



Page: 2

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	A07	Нір	1	1	Job Reference (optional)	166262045

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:31 ID:BYroY?fSOjJ2Pom2wEJb_EzeBba-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:63.9

Plate Offsets (X, Y): [2:0-3-11,Edge], [4:0-3-0,Edge], [5:	:0-2-12,0-3	8-4], [6:0-6-4,0-	4-8], [7:0-3-0,E	dge], [9:0-3	-11,Edge], [1	1:Edge,0)-2-12],	[18:Edge	ə,0-2-1	2]	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.92 0.93 0.94	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.31 -0.64 0.11	(loc) 11-12 11-12 11	l/defl >999 >619 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 184 lb	GRIP 197/144 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 *Excep 2x4 SP 1650F 1.5E No.2 2x4 SPF No.3 *Exce 2400F 2.0E Structural wood she except end verticals (3-9-4 max.): 5-6. Rigid ceiling directly bracing. 1 Row at midpt (size) 11=0-5-8, May Horiz 19, E5 (J	t* 5-4,6-7:2x6 SPF I *Except* 16-13:2x4 ppt* 18-2,11-9:2x4 S athing directly applie , and 2-0-0 oc purlin applied or 9-4-10 or 3-18, 8-11 18=0-5-8 0 420	2) No.2 SP P ed, is c 3) c 3) 5) (6)	Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3- 17-5-4, Exter to 34-9-8 zor vertical left a forces & MW DOL=1.60 pl Provide adeo All plates are This truss ha chord live loa * This truss h	7-16; Vult=114 n; TCDL=6.0ps t. II; Exp C; En e and C-C Exte -7-0 to 15-11-4 rior(2R) 17-5-4 he; cantilever le nd right expose fFRS for reacti- ate grip DOL= quate drainage MT20 plates i as been design ad nonconcurre as been design	5mph (3-sec f; BCDL=6.0 iclosed; MW rior(2E) -1-5 i, Exterior(2E to 24-6-2, li eft and right ed;C-C for n ons shown; 1.60 to prevent v unless other ed for a 10.0 ent with any ined for a liv	ond gust) opsf; h=35ft; FRS (envelo I-0 to 3-7-0, I) 15-11-4 to nterior (1) 24 exposed; er hembers and Lumber vater ponding wise indicate 0 psf bottom other live loa e load of 20.0	pe) -6-2 nd g. ed. ads. 0psf				1 1 0 g 11 1 0 1 1 2	
FORCES TOP CHORD BOT CHORD WEBS NOTES	Max Horiz 18=-56 (L Max Uplift 11=-338 (Max Grav 11=1654 ((lb) - Maximum Com Tension 5-6=-2003/620, 2-18 9-11=-496/320, 1-2= 3-5=-2480/620, 6-8= 8-9=-415/174, 9-10= 17-18=-538/2206, 11 14-15=-382/2001, 12 11-12=-489/2296 5-15=0/136, 5-14=-2 6-12=-95/492, 5-17= 3-18=-2232/491, 8-1 8-11=-2232/497	LC 9), 18=-338 (LC (LC 2), 18=1654 (LC)pression/Maximum 8=-497/320, -0/35, 2-3=-415/174 -2480/635, -0/35 5-17=-381/2004, 2-14=-369/2005, 273/277, 6-14=-214/ -95/494, 3-17=-197, 2=-197/225,	8) 5 2) 7) 8) 9) 316, /224, L(on the bottor 3-06-00 tall b chord and ar All bearings capacity of 5 Provide mec bearing plate joint 11 and 3 This truss is International R802.10.2 ar 0) Graphical pu or the orienta bottom chore DAD CASE(S)	n chord in all a by 2-00-00 wide y other memb are assumed to 65 psi. hanical connect capable of wit 338 lb uplift at designed in ac Residential Co nd referenced i rilin representa ation of the pur J. Standard	reas where e will fit betw ers, with BC o be SP 165 ction (by oth- thstanding 3 joint 18. cordance wi ode sections standard AN tion does no lin along the	a rectangle veen the both DL = 10.0psi OF 1.5E crus ers) of truss I 38 lb uplift at th the 2018 R502.11.1 a SI/TPI 1. of depict the s top and/or	om f. shing to t and size				STATE OF M SCOTT SEVI	MISSOUR ER ER

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





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June 14,2024

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Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	A08	Hip Girder	1	2	Job Reference (optional)	166262046

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:31

Page: 1 ID:BYroY?fSOjJ2Pom2wEJb_EzeBba-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -1-5-0 1-5-0 17-5-4 34-9-8 7-6-9 15-11-4 25-3-5 29-4-4 33-4-8 7-6-9 8-4-11 1-6-0 7-10-1 4-0-15 4-0-4 1-5-0 4x6= 412 41 6x6= 6-11-12 ၐ 5 6 σ 3x4 🚅 5 6x6*≈* 4x6 -20 21 3 4 7 3x8≈ 6-11-12 6-10-3 6-10-3 8₂₂ 19 5x8 -4x4 II 9 2 1-8-0 18 ΠП ΠΠ 11 ⊠ k 2316 25 17 15 14 12 24 13 4x4 =3x4= 3x4= 3x8= 3x4= 8x8= MT18HS 5x8 # HUS26 MT18HS 5x8 =

> HGUS26-2 10-2-13 17-7-0 25-3-5 29-4-4 33-4-8 10-2-13 7-4-3 7-8-5 4-0-15 4-0-4

Scale = 1:63.8

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [7:0-2-12,0-3-0], [11:0-4-4,0-2-8], [12:0-3-4,0-4-12]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	1.00 0.96 0.88	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.23 -0.36 0.10	(loc) 15-17 15-17 11	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 355 lb	GRIP 244/190 197/144 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 *Excep 1.5E 2x4 SP No.2 *Excep 2x4 SPF No.3 *Exce No.2, 11-9:2x6 SPF Structural wood she	t* 4-5,6-7:2x4 SP 16 t* 13-11:2x6 SPF No pt* 18-2,12-9:2x4 SF No.2 athing directly applie	1) 50F 9.2 d,	2-ply truss to (0.131"x3") n Top chords c oc, 2x6 - 2 ro Bottom choro 0-9-0 oc, 2x6 Web connec Except mem	be connected toge alis as follows: connected as follow www.staggered at 0- ds connected as fol 5 - 2 rows staggere- ted as follows: 2x4 ber 8-12 2x4 - 2 row	ether wi 9: 2x4 - 9-0 oc. lows: 2: d at 0-9 - 1 row ws stag	th 10d 1 row at 0-9- x4 - 1 row at -0 oc. at 0-9-0 oc, gered at 0-2-0	-0	10) Pro- bea joint 11) This Inte R80 12) Gra or th	vide mee ring plat t 11 and s truss is rnationa 02.10.2 a phical p ne orient	chanica e capa 441 lb desig I Resid and ref urlin re ation d	al connection (b) ble of withstand o uplift at joint 18 ned in accordand dential Code sec erenced standar presentation do of the purlin alon	others) of trus ng 1252 lb uplii e with the 2018 tions R502.11.1 d ANSI/TPI 1. es not depict the g the top and/o	s to ft at 8 1 and e size r
BOT CHORD WEBS REACTIONS	except end verticals (6-0-0 max.): 5-6. Rigid ceiling directly bracing. 1 Row at midpt (size) 11=0-5-8, Max Horiz 18=-58 (L Max Uplift 11=-1252 Max Grav 11=5770 (lb) - Maximum Corr	, and 2-0-0 oc purlins applied or 10-0-0 oc 3-18 18=0-5-8 C 17) (LC 9), 18=-441 (LC (LC 1), 18=2111 (LC poression/Maximum	2) 3) (8) (2) (2)	oc. All loads are except if note CASE(S) sec provided to c unless othen Unbalanced this design. Wind: ASCE Vasd=91mpl Ke=1 00: Ca	considered equally ed as front (F) or ba tion. Ply to ply con listribute only loads wise indicated. roof live loads have 7-16; Vult=115mpl n; TCDL=6.0psf; B0 t II: Exp C: Encloss	v applied ack (B) f nection noted a been o n (3-sec CDL=6.0	d to all plies, face in the LC s have been as (F) or (B), considered for cond gust) Opsf; h=35ft; FRS (envelor	DAD r	bott 13) Use 8-16 con 14) Use Trus con LOAD (1) De Pla Ur	om chor Simpso 6d Truss nect trus Simpso ss) or ec nect trus CASE(S) ead + Ro ate Incre	d. on Stro ss(es) f on Stro juivale ss(es) f of Live pase=1 pads (II	ng-Tie HGUS26 juivalent at 29-7- to front face of bi- ng-Tie HUS26 (' nt at 31-4-8 from to front face of bi- ndard e (balanced): Lur .15 .0ft)	2 (20-16d Gird 9 from the left ef 5ttom chord. 4-10d Girder, 4 the left end to 5ttom chord. nber Increase=	er, end to 4-10d 1.15,
TOP CHORD BOT CHORD	Tension 1-2=0/35, 2-3=-399/ 5-6=-3246/888, 6-8= 8-9=-7670/1679, 9-1 9-11=-5135/1243 17-18=-723/3184, 1! 14-15=-1078/5297.	181, 3-5=-3525/850, 5590/1277, 10=0/36, 2-18=-495/3 5-17=-624/3103, 12-14=-1516/7216.	321,	exterior zone Interior (1) 3- 17-5-4, Exter to 34-9-8 zor vertical left a forces & MW DOI =1 60 pl	e and C-C Exterior(7-0 to 15-11-4, Ext rior(2R) 17-5-4 to 2 he; cantilever left ar nd right exposed;C FRS for reactions 3 ate grip DOL = 1.60	2E) -1-5 terior(2E 4-6-2, lind right -C for n shown;	5-0 to 3-7-0, E) 15-11-4 to nterior (1) 24- exposed ; en- nembers and Lumber	6-2 d			,	Contraction of the	MISC	
WEBS NOTES	11-12=-119/492 5-15=-220/893, 6-15 9-12=-1500/7144, 7- 8-14=-2453/597, 7-1 5-17=-135/331, 8-12 3-17=-80/340, 3-18=	5=-155/890, -14=-247/1463, 5=-2430/576, 2=-582/2009, -3259/695	5) 6) 7) 8)	Provide adec All plates are This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar	With the second	revent of ss other or a 10.0 vith any for a liv where l fit betw with BC	water ponding wise indicated) psf bottom other live load e load of 20.0 a rectangle /een the botto DL = 10.0psf	g. d. ds.)psf om		~	8	SCOT SEV	I M. IER BER	

9) Bearings are assumed to be: Joint 18 SP No.2 crushing capacity of 565 psi, Joint 11 SPF No.2 crushing capacity



DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 07/18/2024 8:50:09

TION

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Continued on page 2 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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/TPH1 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.sbcscomponents.com)

of 425 psi.

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	A08	Hip Girder	1	2	Job Reference (optional)	166262046

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:31 ID:BYroY?fSOjJ2Pom2wEJb_EzeBba-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-9=-70, 9-10=-70, 11-18=-20

Concentrated Loads (lb)

Vert: 12=-4089 (F), 25=-581 (F)

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 toulsable 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



Page: 2

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B01	Hip Girder	1	2	Job Reference (optional)	166262047

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:32 ID:57e2QzG5EP7bJXy1aKBqV1zeC6L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

30-11-0 |<u>-1-5-0</u>| |_____| 3-11-4 14-9-0 20-2-12 25-6-12 29-6-0 9-3-4 1-5-0 3-11-4 5-4-0 5-5-12 3-11-4 5-5-12 5-4-0 NAILED 412 41 3x8= 1.5x4 **I** 3x4= 3x8= 4x4 = $\frac{2 - 10 - 5^2 - 11 - 12}{2 - 10 - 5}$ 4x4= 25 29 7 r-19 4 22 23 5 26 276 28 **8**2 20 24 31 2 4x4 = 4x4 ≈ 2 9 2-11-12 10 1-8-0 18 का ले Π Π 11 Π \boxtimes ₿ 33 17 34 35 16 36 37 1538 14 39 40 41 13 42 43 12 44 1.5x4 u 1.5x4 u 4x8 =1.5x4 II 3x4 =1.5x4 u 4x8 =NAILED NAILED 3x8= NAILED NAILED 3-9-8 9-3-4 14-9-0 20-2-12 25-8-8 29-6-0 5-5-12 3-9-8 5-5-12 5-5-12 5-5-12 3-9-8

Scale - 1:57 3

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.86	Vert(LL)	0.20	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.66	Vert(CT)	-0.37	14-16	>960	180		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.51	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	IRC20 ²	8/TPI2014	Matrix-S							Weight: 287 lb	FT = 20%
LUMBER			2) All loads are	considered equa	lly applie	d to all plies,		Ur	niform Lo	bads (II	o/ft)	
TOP CHORD	2x4 SP No.2			except if note	ed as front (F) or	back (B)	face in the LO	DAD		Vert: 1-2	2=-70,	2-3=-70, 3-8=-70), 8-9=-70, 9-10=-70,
BOT CHORD	2x4 SP No.2			CASE(S) see	ction. Ply to ply co	onnection	s have been			11-18=-	20		
WEBS	2x4 SPF No.3 *Exce	pt* 18-2,11-9:2x4 SF	D	provided to distribute only loads noted as (F) or (B), unless otherwise indicated. Concentrated Loads (Ib) Vert: 8=-37 (F) 17=-18 (F) 12=-18 (F) 3=-37 (F)								18 (F) 337 (F)	
	110.2		3	Unbalanced roof live loads have been considered for $20=37$ (F), $17=18$ (F), $12=18$ (F), $3=37$ (F), Unbalanced roof live loads have been considered for $20=37$ (F) $21=37$ (F) $22=37$ (F)									(F) 24=-37 (F)
	Structural wood abo	othing directly opplie	dor	this design.						25=-37	(F) 26	=-37 (F) 27=-37	(F) 29=-37 (F)
TOP CHORD		cent and verticals ar	nd 4) Wind: ASCE	7-16; Vult=115m	ph (3-seo	cond gust)			30=-37	(F), 20	=-37 (F), 33=-11	6 (F). 34=-18 (F).
	2-0-0 oc purlins, $(A-A)$	-0 may > 3-8	iu -	Vasd=91mpl	n; TCDL=6.0psf; I	BCDL=6.	Opsf; h=35ft;			35=-18	(F), 36	=-18 (F), 37=-18	(F), 38=-18 (F),
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	;	Ke=1.00; Ca	t. II; Exp C; Enclo	sed; MW	FRS (envelo	pe)		39=-18 4318	(F), 40	=-18 (F), 41=-18	(F), 42=-18 (F),
	bracing.			Interior (1) 3	7-0 to 3-11-4. Ex	terior(2R) 3-11-4 to 11	1-0-2.		40= 10	(1), 44	= 110 (1)	
REACTIONS	(size) 11=0-5-8,	18=0-5-8		Interior (1) 1	1-0-2 to 25-6-12.	Exterior(2	2E) 25-6-12 t	o,					
	Max Horiz 18=-34 (L	C 10)		30-11-0 zone	; cantilever left a	nd right e	exposed ; end	ł					
	Max Uplift 11=-574 (LC 9), 18=-574 (LC	8)	vertical left a	nd right exposed;	C-C for r	nembers and						
	Max Grav 11=1870 ((LC 1), 18=1870 (LC	1)	forces & MW	FRS for reactions	s shown;	Lumber						
FORCES	(lb) - Maximum Com	pression/Maximum		DOL=1.60 pl	ate grip DOL=1.6	60							
	Tension		5) Provide adeo	quate drainage to	prevent	water ponding	g.					
TOP CHORD	1-2=0/35, 2-3=-2348	/708, 3-4=-2179/696	S, 6) This truss ha	s been designed	for a 10.	0 psf bottom						
	4-5=-5058/1504, 5-7	'=-5058/1504,	_	chord live loa	ad nonconcurrent	with any	other live loa	ids.					
	7-8=-2168/694, 8-9=	-2341/707, 9-10=0/3	35, 7) * This truss h	as been designe	d for a liv	e load of 20.0	0psf					
	2-18=-1781/651, 9-1	1=-1782/650		on the bottor	n chord in all area	as where	a rectangle						
BOT CHORD	17-18=-74/106, 16-1	7=-1211/4308,		3-06-00 tall t	y 2-00-00 wide w	vill fit betw	veen the bott	om					
	14-10=-1211/4308,	13-14=-1270/4371,		chord and ar	y other members	S.							
WERS	12-13=-12/0/43/1,	11-12=-33/03 2276/670 / 16_0/2	8) All bearings	are assumed to b	e SP No.	2 crushing						
WLDO	<i>A</i> -1 <i>A</i> 2 <i>A</i> 5/8 <i>A</i> 3 5-1 <i>A</i>	-2370/073, +-10-0/2 400/273	,	capacity of 5	65 psi. Kaniaal aanaatia			1.0				A DE	A BUNNER
	7-14-208/774 7-13		9 /716) Provide mec	nanical connectio	n (by our tending f	ers) or truss i					B.F. OF I	VIIS S
	8-12-47/443 2-17-	-650/2294	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	bearing plate	TA IN UNITS	anding t	or 4 ib upilit ai	L			6	- AL	N.V.
	9-12=-642/2279	. 000/2204,	4		designed in see	it i i. rdonoo w	ith the 2010				B	SCOT	TM XPN
NOTES	0 12 0 12/22/0			0) THIS LIUSS IS	Residential Code	sections	P502 11 1 a	and			R	S SCOI	
1) 2 ply truck	to be connected toget	bor with 10d		R802 10 2 a	nd referenced sta	ndard AN	JSI/TPI 1	anu		-	8.	SEV.	
() 2-piy trus:	") pails as follows:		1	1) Graphical pu	rlin representatio	n does ni	ot denict the	size			YAA	-	
Top chord	is connected as follows.	: 2x4 - 1 row at 0-9-	0	or the orienta	ation of the purlin	along the	e top and/or	5120			XX.	La TTZ	SONALON
00.			•	bottom chore	l. '	0	•			•	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	NUM	BER AND
Bottom chords connected as follows: 2x4 - 1 row at				2) "NAILED" ind	dicates Girder: 3-	10d (0.14	8" x 3") toe-	nails			N?	PE-2001	018807
0-9-0 oc.				per NDS gui	delines.						N	The second	124
Web conn	ected as follows: 2x4 -	1 row at 0-9-0 oc.	L	OAD CASE(S)	Standard						Y	080	JO H
	web connected as follows. 2x4 - 1 fow at 0-3-0 oc.				1) Dead + Roof Live (balanced): Lumber Increase=1.15,								

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

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June 14,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B02	Нір	1	1	Job Reference (optional)	166262048

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:32 ID:sCAwEKnRLJPdM_A519xhCuzeC5h-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:57.2

Plate Offsets (X, Y): [2:0-2-11.0-3-0]

		-1											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	1.00	Vert(LL)	-0.19	13-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.70	Vert(CT)	-0.44	13-14	>788	180		
BCLL	0.0*	Rep Stress Incr	NO		WB	1.00	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 141 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD	2x4 SP No.2 *Exce 2.0E, 5-7:2x4 SP 1 2x4 SP 1650F 1.5E	ppt* 3-5:2x4 SP 2400F 650F 1.5E E	2)	Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone	7-16; Vult=115m h; TCDL=6.0psf; l t. II; Exp C; Enclo and C-C Exterio	ph (3-sec BCDL=6.0 osed; MW or(2E) -1-5	ond gust) 0psf; h=35ft; FRS (envelop -0 to 3-7-0,	oe)					
WEBS	2x4 SPF No.3 *Exc No.2	cept* 15-2,10-8:2x4 S	Р	Interior (1) 3 Interior (1) 1	-7-0 to 5-11-4, Ex 3-0-2 to 23-6-12,	terior(2R) Exterior(2	5-11-4 to 13 E) 23-6-12 to	-0-2, D					
BRACING				30-11-0 zon	e; cantilever left a	ind right e	xposed ; end						
TOP CHORD	Structural wood sh 3-5-6 oc purlins, e 2-0-0 oc purlins (2-	eathing directly applie xcept end verticals, a ·4-4 max.): 3-7.	ed or nd	forces & MW DOL=1.60 pl	IND FIGHT EXPOSED FRS for reaction late grip DOL=1.6	;C-C for m s shown; 60	embers and Lumber						
BOT CHORD	Rigid ceiling direct bracing.	y applied or 8-3-6 oc	3) 4)	Provide adeo This truss ha	quate drainage to as been designed	for a 10.0	vater ponding) psf bottom).					
WEBS	1 Row at midpt	4-14	5)	chord live loa	ad nonconcurrent	with any	other live loa	ds.					
REACTIONS	(size) 10=0-5-7 Max Horiz 15=-25 (Max Uplift 10=-351 Max Grav 10=1424	3, 15=0-5-8 LC 10) (LC 9), 15=-351 (LC ŧ (LC 1), 15=1424 (LC	5) 8) 21) 6)	on the bottor 3-06-00 tall t chord and ar All bearings	nas been designe m chord in all area by 2-00-00 wide w ny other members are assumed to b	a for a live as where will fit betw S. be SP 165	e load of 20.0 a rectangle veen the botto 0F 1.5E crus	om hing					
FORCES	(lb) - Maximum Co Tension	mpression/Maximum	7)	capacity of 5	65 psi. hanical connectic	on (by oth	ers) of truss to	0					
TOP CHORD	1-2=0/35, 2-3=-203 4-6=-2957/759, 6-7 7-8=-2032/510, 8-9 8-10=-1376/489	30/509, 3-4=-1852/51 7=-1856/522, 9=0/35, 2-15=-1378/4	1, 90, 8)	bearing plate joint 10 and This truss is International	capable of withs 351 lb uplift at join designed in acco Residential Code	standing 3 nt 15. rdance wi	th the 2018	nd					
BOT CHORD	14-15=-122/160, 1 11-13=-721/2828,	3-14=-706/2887, 10-11=-57/129	9)	R802.10.2 a	nd referenced sta	ndard AN	SI/TPI 1.	size				OF M	ALSO
WEBS	3-14=-25/413, 4-14 6-13=0/276, 6-11= 2-14=-369/1786, 8	l=-1275/391, 4-13=0/3 -1201/354, 7-11=-7/3 -11=-373/1792	248, 71, LC	or the orienta bottom chore	ation of the purlin d. Standard	along the	top and/or	0			Ø	STATE SCOTT	M. R.
NOTES				(-)							81	/ SEVI	ER / N
1) Unbalance	ed roof live loads hav	e been considered fo	r								83	1	1*8

this design.



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June 14,2024

PE-200101880

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Page: 1

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B03	Нір	1	1	Job Reference (optional)	166262049

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:33 ID:OH8zbozTaEQMHSOAzWDRrGzeC5R-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:57.2

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.87	Vert(LL)	-0.16	9-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.96	Vert(CT)	-0.29	9-11	>999	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO		WB	0.75	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		. ,					Weight: 144 lb	FT = 20%
LUMBER			2)	Wind: ASCE	7-16: Vult=115m	oh (3-sec	ond aust)						
TOP CHORD	2x4 SP 1650F 1.5E	*Except* 3-5:2x4 SP	, ´	Vasd=91mpl	n; TCDL=6.0psf; E	BCDL=6.)psf; h=35ft;)					
	NO.2			Ke=1.00; Ca	L II; EXP C; Enclos		FRS (envelop	be)					
BOICHORD	2x4 SP No.2		N- 0	Interior (1) 2		(2E) - 1 - C	-0.10.3-7-0,	0.0					
WEBS	2X4 SPF N0.3 "EXCe	pt" 13-2,8-6:2x4 SP	N0.2	Interior (1) 3	1-9-0 to 21-6-12	Evterior(PD 21-6-12 to	-9-0, c					
BRACING	.			28-7-10 Inte	rior (1) 28-7-10 to	30-11-0	zone: cantile	Ver					
TOP CHORD	Structural wood she	athing directly applie	ed or	left and right	evnosed · end ve	rtical left	and right	VCI					
	3-8-13 oc purlins, e	xcept end verticals,	and	exposed C-C	for members and	forces &	MWFRS for						
	2-0-0 oc purlins (3-2	-6 max.): 3-5.		reactions sho	own: Lumber DOI	=1 60 pl	ate arin						
BOT CHORD	Rigid ceiling directly	applied or 7-4-12 oc	0	DOL=1.60		p.	are grip						
	bracing.	4 4 2 4 0	3)	Provide adeo	uate drainage to	prevent v	vater ponding	J.					
WEBS	I Row at midpt	4-12, 4-9	4)	All plates are	MT20 plates unle	ess other	wise indicate	d.					
REACTIONS	(size) 8=0-5-8, 1	3=0-5-8	5)	This truss ha	s been designed	for a 10.0) psf bottom						
	Max Horiz 13=-15 (L	C 10)	/	chord live loa	ad nonconcurrent	with any	other live loa	ds.					
	Max Uplift 8=-343 (L	C 9), 13=-343 (LC 8) 6)	* This truss h	as been designed	d for a liv	e load of 20.0	Opsf					
	Max Grav 8=1424 (L	-C 1), 13=1424 (LC	1) ′	on the bottor	n chord in all area	s where	a rectangle						
FORCES	(lb) - Maximum Com	pression/Maximum		3-06-00 tall b	y 2-00-00 wide w	ill fit betv	een the botto	om					
	Tension			chord and ar	y other members								
TOP CHORD	1-2=0/35, 2-3=-2126	/551, 3-4=-1929/572	2, 7)	All bearings	are assumed to be	e SP No.	2 crushing						
	4-5=-1929/572, 5-6=	-2126/552, 6-7=0/35	5,	capacity of 5	65 psi.								
	2-13=-1348/507, 6-8	=-1348/507	8)	Provide mec	hanical connection	n (by oth	ers) of truss t	0					
BOT CHORD	12-13=-185/265, 11-	12=-612/2542,		bearing plate	capable of withst	tanding 3	43 lb uplift at						
	9-11=-612/2542, 8-9	=-104/265		joint 8 and 3	43 lb uplift at joint	13.							Th
WEBS	3-12=0/312, 4-12=-8	28/208, 4-11=0/258	, 9)	This truss is	designed in accor	dance w	th the 2018					OF N	ALC AL
	4-9=-828/208, 5-9=0	//312, 2-12=-345/169	90,	International	Residential Code	sections	R502.11.1 a	nd				ALEUTI	ISS W
	0-9=-347/1697			R802.10.2 a	nd referenced star	ndard AN	ISI/TPI 1.				A		1.5
NOTES			10) Graphical pu	rlin representation	n does no	ot depict the s	size			H	SCOTT	MNR
1) Unbalance	ed roof live loads have	been considered for	r	or the orienta	ation of the purlin a	along the	top and/or				B	SEVI	FR VY
this desig	n.			bottom chord	1.						2.	DEVI	

LOAD CASE(S) Standard



PE-200101880

Page: 1

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B04	Нір	1	1	Job Reference (optional)	166262050

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:33 ID:W2yJu2LHWSC6t3hxjpmT3azeC4z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.3

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.67	Vert(LL)	-0.30	11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.82	Vert(CT)	-0.67	11-13	>526	180		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.51	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 147 lb	FT = 20%
LUMBER			2)	Wind: ASCE	7-16; Vult=115m	ph (3-sec	ond gust)						
TOP CHORD	2x4 SP No.2		,	Vasd=91mpł	n; TCDL=6.0psf; I	BCDL=6.0)psf; h=35ft;						
BOT CHORD	2x4 SP 2400F 2.0E	*Except* 12-14:2x4	SP	Ke=1.00; Ca	t. II; Exp C; Enclo	osed; MW	FRS (envelo	pe)					
	1650F 1.5E	·		exterior zone	and C-C Exterio	or(2E) -1-5	-0 to 3-7-0,						
WEBS	2x4 SPF No.3 *Exce	pt* 14-2,10-8:2x4 SI	Ρ	Interior (1) 3-	-7-0 to 9-11-4, Ex	(terior(2R)	9-11-4 to 17	7-0-2,					
	No.2			Interior (1) 17	7-0-2 to 19-6-12,	Exterior(2	2R) 19-6-12 t	0					
BRACING				26-7-10, Inte	rior (1) 26-7-10 to	o 30-11-0	zone; cantile	ever					
TOP CHORD	Structural wood she	athing directly applie	ed or	left and right	exposed ; end ve	ertical left	and right						
	3-2-12 oc purlins, ex	xcept end verticals,	and	exposed;C-C	, for members an	a forces a	k IVIVVFRS TO	r					
	2-0-0 oc purlins (3-1	1-15 max.): 4-6.			Jwn, Lumber DOI	L=1.00 pia	ate grip						
BOT CHORD	Rigid ceiling directly	applied or 9-7-12 or	3)	DOL=1.00 Provide adec	ulate drainage to	nrovent	vater pondin	a					
	bracing.	0 4 4 7 4 0	4)	This truss ha	s heen designed	for a 10 () nsf hottom	9.					
WEBS	1 Row at midpt	3-14, 7-10	-)	chord live loa	ad nonconcurrent	with any	other live los	ads					
REACTIONS	(size) 10=0-5-8,	14=0-5-8	5)	* This truss h	as been designe	d for a liv	e load of 20.	0psf					
	Max Horiz 14=-19 (L	C 13)	- /	on the bottor	n chord in all area	as where	a rectangle	-					
	Max Uplift 10=-334 (LC 9), 14=-334 (LC	8)	3-06-00 tall b	y 2-00-00 wide w	vill fit betw	een the bott	om					
	Max Grav 10=1424 ((LC 1), 14=1424 (LC	: 1)	chord and ar	y other members	5.							
FORCES	(lb) - Maximum Com	pression/Maximum	6)	Bearings are	assumed to be:	Joint 14 S	SP 1650F 1.5	έE					
	Tension	05 0 4 0054/570		crushing cap	acity of 565 psi,	Joint 10 S	P 2400F 2.0	E					
TOP CHORD	1-2=0/35, 2-3=-145/0	65, 3-4=-2051/579,		crushing cap	acity of 805 psi.								
	4-5=-1887/583, 5-6=	-1902/576,	7)	Provide mec	hanical connectio	on (by oth	ers) of truss	to					
	$0^{-1} = -2001/011, 1^{-0} = -214 - 292/012, 9.10$	- 120/12, 0-9=0/30,		bearing plate	capable of withs	standing 3	34 lb uplift a	t					
BOT CHORD	13-14-516/1679 11	1-13531/2114	0)	Joint 14 and	designed in see	nt 10. Irdonoo wi	th the 2019						
BOT ONORD	10-11=-443/1688	110-001/2114,	0)	International	Residential Code	contions	DE02 11 1	and					Th
WEBS	3-13=0/394, 4-13=-1	4/342. 5-13=-439/17	70.	R802 10 2 a	nd referenced sta	andard AN	1502.11.1 a	anu				OF	ALC D
	5-11=-419/179, 6-11	=-11/352, 7-11=0/40)1, q)	Graphical nu	rlin representatio	in does no	t depict the	size				ALEUTI	IIS'S
	3-14=-1915/579, 7-1	0=-1941/567	. 3)	or the orienta	ation of the purlin	along the	top and/or	0.20			A	A. P.	N.S.
NOTES				bottom chord	l.						A	SCOT	ГМ. VEN
1) Unbalanc	ed roof live loads have	been considered for	LC	DAD CASE(S)	Standard						4	e/ SEVI	ER \V

this design.

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June 14,2024

NUMP PE-200101880

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B05	Нір	1	1	Job Reference (optional)	166262051

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:33 ID:tYp24OpIKR7a329RWVzc8pzeC4M-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:57.4

Plate Offsets (X, Y): [2:0-3-3,0-1-8], [7:0-3-3,0-1-8]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.75 0.70 0.81	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.21 0.06	(loc) 11-13 11-13 9	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 152 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SPF No.3 *Exce Structural wood she 3-1-4 oc purlins, ex 2-0-0 oc purlins (3-5 Rigid ceiling directly bracing. (size) 9=0-5-8.4	pt* 15-2,9-7:2x4 SP athing directly applie cept end verticals, ar -15 max.): 4-5. applied or 8-3-10 oc 15=0-5-8	2) No.2 ed or nd c 3)	Wind: ASCE Vasd=91mpi Ke=1.00; Ca exterior zone Interior (1) 3 17-6-12, Ext 24-7-10 to 3 exposed; er members an Lumber DOL Provide ade	7-16; Vult=115m; h; TCDL=6.0psf; E t. II; Exp C; Enclo- e and C-C Exterior -7-0 to 11-11-4, E: erior(2R) 17-6-12 0-11-0 zone; canti ad vertical left and d forces & MWFR =1.60 plate grip E quate drainage to	ch (3-sec BCDL=6.0 Sed; MW (2E) -1-5 xterior(21 to 24-7-1 lever left right exp S for rea DOL=1.60 prevent	oond gust) Dpsf; h=35ft; FRS (envelop -0 to 3-7-0, E) 11-11-4 to 0, Interior (1) and right oosed;C-C for ctions shown water ponding	be) ; ;					
FORCES	Max Horiz 15=-31 (L Max Uplift 9=-322 (L Max Grav 9=1424 (L (lb) - Maximum Com	C 13) C 9), 15=-322 (LC 8 -C 1), 15=1424 (LC 1 pression/Maximum	4) () 5) 1)	This truss ha chord live loa * This truss I on the botton 3-06-00 tall I	as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w	for a 10.0 with any d for a liv is where ill fit betw) psf bottom other live load e load of 20.0 a rectangle veen the botto	ds.)psf om					
TOP CHORD	1-2=0/35, 2-3=-2016 4-5=-1769/620, 5-6= 6-7=-2015/589, 7-8= 7-9=-1366/491	6/571, 3-4=-1934/59 ⁻ 1937/609, =0/35, 2-15=-1367/50	1, 6) 00, 7)	All bearings capacity of 5 Provide med bearing plate	are assumed to be 65 psi. chanical connection capable of withst	e SP No. n (by oth anding 3	2 crushing ers) of truss to 22 lb uplift at	0					
BOT CHORD	14-15=-68/138, 13-1 11-13=-419/1767, 10 9-10=-25/85	4=-503/1858, 0-11=-434/1857,	8)	joint 15 and This truss is International	322 lb uplift at join designed in accor Residential Code	t 9. dance w sections	ith the 2018 R502 11 1 a	nd					
WEBS	3-14=-345/190, 3-13 4-11=-184/192, 5-11 6-10=-349/192, 2-14 7-10=-466/1829	8=-168/147, 4-13=0/2 =0/272, 6-11=-164/ 4=-449/1831,	265, 149, 9)	R802.10.2 a Graphical pu or the orient bottom chore	Ind referenced star Irlin representation ation of the purlin a	ndard AN n does no along the	ISI/TPI 1. ot depict the s top and/or	size			Å	TATE OF M	AISSOLUT
NOTES 1) Unbalance this design	ed roof live loads have n.	been considered for	r r	DAD CASE(S)	Standard						R.	SEVI	ER



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PE-200101880

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B06	Нір	1	1	Job Reference (optional)	166262052

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:33 ID:i3pSAVvquOafT2dwL75yK?zeC2x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:57.7

Plate Offsets (X, Y): [13:0-3-0,0-3-0]

				_											
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.99 0.79 0.82	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.12 -0.28 0.05	(loc) 12-13 12-13 11	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 157 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS 1) Unbalance	2x4 SP No 1.5E 2x4 SP No 2x4 SPF No 2x4 SPF No 2x4 SPF No No.2 Structural except enc (4-2-5 may Rigid ceilir bracing. (size) Max Horiz Max Uplift Max Grav (lb) - Maxiii Tension 1-2=035, : 5-6=-1616 8-9=-2109 9-11=-136 15-16=-86 12-14=-41 3-15=-255 5-14=-11/2 8-13=-443 2-15=-415 ed roof live Ic	0.2 *Excep 0.2 lo.3 *Exce wood shead d verticals, x.): 5-6. ng directly 11=0-5-8, 16=-44 (Li 11=-308 (i 11=1424 (mum Com 2-3=-2104 /552, 6-8= /556, 9-10 4/479 /166, 14-1 3/1937, 11 /182, 3-13= /172, 8-12 /172, 8-12 /1846, 9-1 bads have	 * 4-5,6-7:2x4 SP 165 pt* 16-2,11-9:2x4 SP athing directly applied and 2-0-0 oc purlins applied or 8-5-6 oc 16=0-5-8 C 17) LC 9), 16=-308 (LC 8 LC 1), 16=1424 (LC pression/Maximum /554, 3-5=-1805/525, -1793/534, =0/35, 2-16=-1360/48 5=-481/1931, -12=-46/125 =-426/183, e-13=-48/3 =-241/190, 2=-414/1854 been considered for 	2) 50F 4, 3) 4) 5) 1) 6) 7) 33, 8) 221, 9) LC	Wind: ASCE Vasd=91mpł Ke=1.00; Ca exterior zone Interior (1) 3- 15-6-12, Extr 22-10-4 to 30 exposed ; en members an Lumber DOL Provide adec This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar All bearings : capacity of 5 Provide mec bearing plate joint 11 and 3 This truss is International R802.10.2 ar Graphical pu or the orienta bottom chorc DAD CASE(S)	7-16; Vult=115mp n; TCDL=6.0psf; Bd t. II; Exp C; Enclos and C-C Exterior(7-0 to 13-11-4, Ex erior(2R) 15-6-12 tt 0-11-0 zone; cantile d vertical left and rd d forces & MWFRS =1.60 plate grip Dd uate drainage to p s been designed for an chord in all areas by 2-00-00 wide wil by other members. are assumed to be 65 psi. hanical connection capable of withsta 308 lb uplift at joint designed in accord Residential Code s nd referenced stan rlin representation ation of the purlin a Standard	h (3-sec CDL=6.0 ed; MW 2E) -1-5 terior(2E) o 22-10- over left ight exp or a 20-0 over left ight exp or a 10.0 vith any for a 10.0 vith any for a 10.0 vith any for a 10.4 vith any for any for any for any for any for any fo	ond gust) ond gust) psf; h=35ft; FRS (envelop i-0 to 3-7-0, E) 13-11-4 to 4, Interior (1) and right osed;C-C for ctions shown ovater ponding 0 psf bottom other live loa e load of 20.0. 2 crushing ers) of truss t 08 lb uplift at th the 2018 R502.11.1 a R502.11.1 a SI/TPI 1.	oe) ; g. ds.)psf om o size				STATE OF M STATE SCOTT SEVI	M. ER	2

 Unbalanced root live loads have been con this design.

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June 14,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B07	Common	1	1	Job Reference (optional)	166262053

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:33 ID:6Gn1IGnNK1o3jpsI?c6SaCzeCHI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:55.5

Plate Offsets (X, Y): [2:0-3-11,Edge], [8:0-3-11,Edge]

					-									
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.90	Vert(LL)	-0.59	11-13	>594	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.75	Vert(CT)	-0.88	11-13	>400	180	MT18HS	244/190	
BCLL	0.0*	Rep Stress Incr	NO		WB	0.84	Horz(CT)	0.06	10	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 144 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP 2400F 2.0E * No.2 2x4 SP 2400F 2.0E 2x4 SPF No.3 *Exce No.2 Structural wood shea 4-0-8 oc purlins, exc Rigid ceiling directly bracing. 1 Row at midpt (size) 10=0-5-8, Max Horiz 14=-50 (LI Max Uplift 10=-302 (I Max Grav 10=1468 (*Except* 1-4,6-9:2x4 pt* 14-2,10-8:2x4 Sf athing directly applie cept end verticals. applied or 10-0-0 oc 3-14, 7-10 14=0-5-8 C 17) LC 9), 14=-302 (LC 4 (LC 2), 14=1468 (LC	2) SP d or ; 3) 4) 5) 8) 2)	Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3- 19-9-0, Interi and right exp exposed;C-C reactions sho DOL=1.60 All plates are This truss ha chord live loa * This truss ha chord live loa * This truss ha chord low loa a the bottor 3-06-00 tall b chord and ar	7-16; Vult=115mp n; TCDL=6.0psf; B t. II; Exp C; Enclos e and C-C Exteriore -7-0 to 14-9-0, Extr or (1) 19-9-0 to 30 bosed ; end vertical ; for members and bown; Lumber DOL= e MT20 plates unle as been designed f ad nonconcurrent v has been designed n chord in all areas by 2-00-00 wide wi by other members,	h (3-sec CDL=6.0 (2E) -1-5 erior(2R) -11-0 zc I left and forces 8 =1.60 pl: ss other or a 10.0 with any for a liv s where II fit betw with Bt	ond gust))psf; h=35ft; FRS (envelop -0 to 3-7-0, 14-9-0 to ne; cantileve; I right & MWFRS for ate grip wise indicate; 0 psf bottom other live loa; e load of 20.0 a rectangle ween the botto DL = 10.0psf	oe) r left d. ds. opsf om				Weight, 144 lb	FT = 20%	
FORCES	(lb) - Maximum Com Tension	pression/Maximum	6)	All bearings a	are assumed to be	SP 240	0F 2.0E crus	hing						
TOP CHORD	1-2=0/35, 2-3=-363/ ² 5-7=-2129/502, 7-8= 2-14=-485/327, 8-10	193, 3-5=-2156/498, -371/190, 8-9=0/35,)=-488/326	7)	Provide mec bearing plate ioint 14 and 3	hanical connection capable of withsta 302 lb uplift at joint	i (by oth anding 3 : 10.	ers) of truss to 02 lb uplift at	0						
BOT CHORD	13-14=-404/2007, 11 10-11=-383/1986	1-13=-280/1637,	8)	This truss is	designed in accord	dance w	th the 2018	nd						
WEBS	5-11=-73/592, 7-11= 3-13=-225/217, 3-14 7-10=-1949/343	-228/216, 5-13=-67/ -=-1995/336,	633, LC	R802.10.2 ar	nd referenced stan Standard	idard AN	ISI/TPI 1.	nu			B	ATE OF M	AISSOL	
NULES											n	Y COOT	AP WAY	

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



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

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B08	Roof Special	1	1	Job Reference (optional)	166262054

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:33 ID:0mMEUz1XEfAcWAfckRIX3PzeC1V-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:57.6

Plate Offsets (X, Y): [2:0-3-11,Edge], [10:0-4-4,0-2-12], [11:Edge,0-3-8]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.99 0.88 0.76	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.72 0.10	(loc) 9-10 9-10 9	l/defl >999 >489 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 153 lb	GRIP 244/190 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES	2x4 SP No.2 *Excep 2.0E 2x4 SP 1650F 1.5E No.2, 11-6:2x4 SPF 2x4 SPF No.3 *Exce Structural wood shea except end verticals, (6-0-0 max.): 7-8. Rigid ceiling directly bracing. 1 Row at midpt (size) 9= Mecha Max Horiz 14=85 (LC Max Uplift 9=-233 (L Max Grav 9=1311 (L (lb) - Maximum Com Tension 1-2=0/35, 2-3=-374/ 5-6=-2488/685, 6-7=	t* 4-5:2x4 SP 2400F *Except* 12-11:2x4 S No.3 pt* 14-2:2x4 SP No.2 athing directly applied , and 2-0-0 oc purlins applied or 8-0-6 oc 7-9, 3-14 nnical, 14=0-5-8 C 12) C 9), 14=-299 (LC 8) LC 1), 14=1427 (LC 1 npression/Maximum 181, 3-5=-1959/500, 2571/604, 7-8=-150	2) SP 2 d, 3) 4) 5) 6)) 7) 7) (9, 9)	Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3- 19-9-0, Interi and right exp exposed;C-C reactions sho DOL=1.60 Provide adec All plates are This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar Bearings are crushing cap Refer to gird Provide mec	7-16; Vult=115mp 7; TCDL=6.0psf; B t; TCDL=6.0psf; B t: II; Exp C; Enclose and C-C Exteriori 7-0 to 14-9-0, Exteriori 7-0 to 14-9, Exteriori 7-0 to 14-9, Exteriori 7-0 to 14-9, Exteriori 7-0	ch (3-sec CDL=6.0 sed; MW (2E) -1-5 erior(2R) -4-4 zor I left and forces 4 = 1.60 pla prevent v ses other or a 10.0 with any I for a liv s where II fit betw oint 14 \$ uss conr	cond gust) pops; h=35ft; FRS (envelop 5-0 to 3-7-0,) 14-9-0 to le; cantilever I right & MWFRS for ate grip water ponding wise indicate 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto SP 1650F 1.5 nections. ers) of truss t	pe) left g. d. ds. Dpsf E						
BOT CHORD WEBS NOTES	8-9=-132/74, 2-14=- 13-14=-515/1874, 1- 10-11=0/163, 6-10=- 9-10=-740/2615 3-13=-233/217, 5-13 10-13=-353/1505, 5- 7-10=-310/197, 7-9= 3-14=-1815/359	487/322 1-13=-62/153, -401/228, 3=-46/350, -10=-246/1023, -2733/805,	10, 11, 11,	 bearing plate joint 9 and 29 This truss is International R802.10.2 ar Graphical pu or the orienta bottom chore 	capable of withst 39 lb uplift at joint designed in accord Residential Code nd referenced star rlin representation ation of the purlin a 1. Standard	anding 2 14. dance w sections idard AN does no along the	33 lb uplift at the 2018 R502.11.1 a ISI/TPI 1. ot depict the s top and/or	ind				STATE OF M	AISSOUR M. ER	
this design.	a roof live loads have	been considered for									80	Ratter	Senter	Ø

this design.



June 14,2024

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

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B09	Roof Special	1	1	Job Reference (optional)	166262055

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:33 ID:zEbiAutSIA?gvx?3q8?yu9zeC0P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:57.6

Plate Offsets (X, Y): [2:0-3-11,Edge], [10:0-4-0,0-2-12], [11:Edge,0-3-8]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.90 0.90 0.81	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.73 0.10	(loc) 9-10 9-10 9	l/defl >999 >481 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 154 lb	GRIP 244/190 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 *Excep 2.0E 2x4 SP 1650F 1.5E No.2, 11-6:2x4 SPF 2x4 SPF No.3 *Exce Structural wood she 3-6-0 oc purlins, ex 2-0-0 oc purlins, (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 9= Mecha Max Horiz 14=96 (L0 Max Uplift 9=-237 (L Max Grav 9=1311 (I	It* 4-5:2x4 SP 2400F *Except* 12-11:2x4 SP 2400F *Do.3 ppt* 14-2:2x4 SP No. athing directly applie cept end verticals, ar -0 max.): 7-8. applied or 7-11-0 oc 7-9, 3-14 unical, 14=0-5-8 C 9), 14=-297 (LC 8 -C 1), 14=1427 (LC *	2) SP 2 d or nd 3) 4) 5) 6) 1)	Wind: ASCE Vasd=91mpf Ke=1.00; Cai exterior zone Interior (1) 3- 19-9-0, Interi and right exp exposed;C-C reactions sho DOL=1.60 Provide adec All plates are This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and ar	7-16; Vult=115m, n; TCDL=6.0psf; E t. II; Exp C; Enclo and C-C Exterior -7-0 to 14-9-0, Ex for (1) 19-9-0 to 22 for members and bown; Lumber DOL auate drainage to e MT20 plates unlus is been designed ad nonconcurrent has been designed ad nonconcurrent has been designed ad nonconcurrent has been designed by 2-00-00 wide w y other members	ph (3-sec SCDL=6. Sec]; MW r(2E) -1-5 terior(2R) 9-4-4 zor al left anc d forces & =1.60 pli prevent v ess other for a 10.0 with any d for a liv s where ill fit betv.	ond gust) opsf; h=35ft; FRS (envelop FRS (envelop i-0 to 3-7-0,) 14-9-0 to le; cantilever I right & MWFRS for ate grip water ponding wise indicate 0 psf bottom other live loa e load of 20.0 a rectangle veen the bottom	pe) left r g. d. Dpsf om						
FORCES	(lb) - Maximum Com Tension	pression/Maximum	7)	Bearings are crushing cap	assumed to be: acity of 565 psi.	Joint 14 S	SP 1650F 1.5	E						
TOP CHORD	1-2=0/35, 2-3=-375/ 5-6=-2464/675, 6-7= 8-9=-212/124, 2-14=	181, 3-5=-1959/501, 2521/602, 7-8=-124 488/322	8) 4/48, 9)	Refer to girde Provide mech	er(s) for truss to tr hanical connectio	russ conr n (by oth tanding 2	ections. ers) of truss t 37 lb uplift at	to						
BOT CHORD	13-14=-557/1874, 1 10-11=0/163, 6-10= 9-10=-758/2626	1-13=-58/137, -290/177,	10	joint 9 and 29) This truss is	97 lb uplift at joint designed in accor Residential Code	14. rdance w	ith the 2018	and				OF M	ALS C	
WEBS	3-13=-233/217, 5-13 10-13=-403/1525, 5- 7-10=-350/191, 7-9= 3-14=-1814/359	3=-45/349, -10=-232/993, 2711/775,	11	R802.10.2 ar) Graphical pu or the orienta bottom chord	referenced stai rlin representation ation of the purlin	ndard AN n does no along the	ISI/TPI 1. ot depict the s top and/or	size				STATE SCOTT	M. ER	
NOTES			LC	DAD CASE(S)	Standard						18 ★	1	1*1	
1) Unbalance	ed roof live loads have	been considered for		(-)							and a		X 174	

this design.



June 14,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B10	Roof Special	1	1	Job Reference (optional)	166262056

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:34 ID:OQRODo8J0QDn?4XEUhOZflzeC_m-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

diTek Industries, Inc. Fri Jun 14 12:32:34 Page: 1 Iq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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June 14,2024



Scale = 1:58.7

Plate Offsets ((X, Y): [2:0-3-11,Edge], [7:0-4-12,Edge],	[8:Edge,0-3	8-8], [10:0-3-12	,0-2-12], [11:Edg	ge,0-3-8]							
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.90 0.90 0.91	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.35 -0.74 0.10	(loc) 9-10 9-10 9	l/defl >999 >474 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 156 lb	GRIP 244/190 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 *Excep 2.0E, 7-8:2x4 SP 16 2x4 SP 1650F 1.5E No.2, 11-6:2x4 SPF 2x4 SPF No.3 *Exce Structural wood she 3-3-14 oc purlins, e 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing.	tt 4-5:2x4 SP 2400 50F 1.5E *Except* 12-11:2x4 No.3 pt* 14-2:2x4 SP No athing directly appli xcept end verticals, -0 max.): 7-8. applied or 8-0-8 oc	2) F SP 0.2 ied or and 5	 Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3 19-9-0, Inter and right exp exposed;C-C reactions ship DOL=1.60 Provide adee All plates are This truss ha 	7-16; Vult=115r n; TCDL=6.0psf; t. II; Exp C; Encl and C-C Exteri -7-0 to 14-9-0, E ior (1) 19-9-0 to opsed ; end verti c for members a own; Lumber DC quate drainage t e MT20 plates un s been designe	mph (3-sec ; BCDL=6.0 losed; MW ior(2E) -1-5 Exterior(2R) 29-4-4 zon ical left and nd forces & DL=1.60 pla o prevent v nless other d for a 10.0	ond gust) ppsf; h=35ft; FRS (envelo i-0 to 3-7-0, 14-9-0 to e; cantilever i right k MWFRS fo ate grip water pondin wise indicate 0 psf bottom	pe) left r g. ed.					
WEBS WEBS REACTIONS	2 Rows at 1/3 pts (size) 9= Mecha Max Horiz 14=137 (L Max Uplift 9=-242 (L Max Grav 9=1311 (L	3-14 7-9 ∟C 9) ∟C 9), 14=-294 (LC 4 ∟C 1), 14=1427 (LC	8) 1) 7	 chord live loa * This truss I on the bottor 3-06-00 tall I chord and ar Bearings are 	ad nonconcurrer nas been design n chord in all are by 2-00-00 wide ny other member assumed to be	nt with any ed for a liv eas where will fit betw rs. : Joint 14 S	other live load e load of 20. a rectangle veen the bott	ads. Opsf om iE					
FORCES	(lb) - Maximum Com Tension 1-2=0/35, 2-3=-375/ 5-6=-2451/670, 6-7=	npression/Maximum 181, 3-5=-1959/502 =-2509/611, 7-8=-13 - 498/222	8] 2, 9] 33/77,	crushing cap Refer to gird Provide mec bearing plate	er(s) for truss to hanical connection capable of with	truss conr ion (by oth istanding 2	ections. ers) of truss 42 lb uplift a	to t					
BOT CHORD	13-14=-593/1874, 1 10-11=0/163, 6-10=- 9-10=-730/2558		10) This truss is International	designed in acc Residential Coc	nt 14. ordance wi de sections	th the 2018 R502.11.1 a	and				FE OF M	AISSO
WEBS	3-13=-232/217, 5-13 10-13=-441/1535, 5- 7-10=-395/197, 7-9= 3-14=-1814/360	3=-44/348, -10=-225/977, -2622/714,	1' L'	1) Graphical pu or the orienta bottom chore OAD CASE(S)	irlin representati ation of the purli d. Standard	on does no n along the	top and/or	size		2	R	SCOTI SEVI	ER Service
i) Unbaiance	eu roor live loaus nave	Deell considered to	ונ								YTT		RER / 2 U

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B11	Roof Special	1	1	Job Reference (optional)	166262057

14-9-0

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:34 ID:iOXb54ShLwyJaqMBN4r7alzeBz3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

19-5-0

23-5-4

25-3-12

Page: 1

29-6-0





Scale = 1:61

Plate Offsets (X, Y): [2:0-3-11,Edge], [12:0-5-12,0-2-12], [13:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.91	Vert(LL)	-0.24	15-16	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.74	Vert(CT)	-0.49	15-16	>715	180	MT18HS	244/190	
BCLL	0.0*	Rep Stress Incr	NO		WB	0.90	Horz(CT)	0.09	10	n/a	n/a			
BCDL	10.0	Code	IRC2018	8/TPI2014	Matrix-S		. ,					Weight: 163 lb	FT = 20%	
			2)	Wind: ASCE	7-16: Vult=115mp	h (3-sec	ond aust)							
	2v4 SP No 2 *Excen	t* 4-5·2v4 SP 2400F	-,	Vasd=91mpl	1: TCDL=6.0psf: B	CDL=6.0	psf: h=35ft:							
	2 0F 5-6:2x6 SPE N			Ke=1.00: Ca	t. II: Exp C: Enclos	ed: MW	FRS (envelor	be)						
BOT CHORD	2x4 SP No 2 *Excen	t* 13-6·2x4 SPF No.	3	exterior zone	and C-C Exterior(2E) -1-5	-0 to 3-7-0,	-,						
	14-16:2x4 SP 1650F	1.5E	0,	Interior (1) 3-	7-0 to 14-9-0, Exte	erior(2E)	14-9-0 to							
WEBS	2x4 SPF No.3 *Exce	pt* 16-2:2x4 SP No.	2	19-5-0, Interi	or (1) 19-5-0 to 23	-5-4, Ex	terior(2E) 23-	5-4						
BRACING				to 25-3-12, Ir	nterior (1) 25-3-12	to 29-4-	4 zone; cantil	ever						
TOP CHORD	Structural wood she	athing directly applie	d or	left and right	exposed ; end ver	tical left	and right							
	4-2-14 oc purlins, e	xcept end verticals.	and	exposed;C-C	for members and	forces &	& MWFRS for							
	2-0-0 oc purlins (4-1	-10 max.): 6-7, 8-9.		reactions sho	own; Lumber DOL=	=1.60 pla	ate grip							
BOT CHORD	Rigid ceiling directly	applied or 6-11-14 c	DC .	DOL=1.60										
	bracing.		3)	Provide adec	quate drainage to p	revent v	vater ponding	J.						
WEBS	1 Row at midpt	8-10, 3-16	4)	All plates are	MT20 plates unle	ss other	wise indicate	d.						
REACTIONS	(size) 10= Mech	anical, 16=0-5-8	5)	This truss ha	s been designed fo	or a 10.0) pst bottom	-I-						
	Max Horiz 16=140 (L	_C 9)		chord live loa	ad nonconcurrent w	vith any	other live load	ds.						
	Max Uplift 10=-243 (LC 9), 16=-293 (LC 8	8) ⁶⁾	an the better	las been designed	IOF A IIV	e load of 20.0	ipsi						
	Max Grav 10=1311	(LC 1), 16=1427 (LC	1)	3-06-00 tall b	v 2-00-00 wide wil	l fit hetu	a reclarigie	m						
FORCES	(lb) - Maximum Com	pression/Maximum		chord and ar	v other members.	i nit beti	Cerr the bolic	////						
	Tension		7)	Bearings are	assumed to be: Jo	pint 16 S	P 1650F 1.5	E						
TOP CHORD	1-2=0/35, 2-3=-378/	183, 3-5=-1962/529,	.,	crushing cap	acity of 565 psi.									
	5-6=-2510/740, 6-7=	-1712/486,	8)	Refer to gird	er(s) for truss to tru	iss conr	ections.							
	7-8=-1837/500, 8-9=	-81/71, 9-10=-147/8	4, 9)	Provide mec	hanical connection	(by oth	ers) of truss to	0						
	2-16=-490/324			bearing plate	capable of withsta	anding 2	43 Ib uplift at						The second second	
BOT CHORD	15-16=-612/1872, 13	3-15=-20/215,		joint 10 and 2	293 lb uplift at joint	16.						O DE M	AL WALL	
	12-13=0/163, 6-12=	-546/240,	10) This truss is	designed in accord	lance w	th the 2018					F.OF I	IISS D	
WEDO	11-12=-710/2394, 10	J-11=-480/1528		International	Residential Code :	sections	R502.11.1 a	nd			4	TA	NS	
WEBS	3-15=-215/211, 5-15)=-31/339, 12- 272/1029		R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.				H	SCOTT	M YPN	6
	12-10=-010/1400, 5- 6 11-001/265 7 14	·12=-212/1028, - 60/267 9 11- 62/	207) Graphical pu	rlin representation	does no	t depict the s	ize			B	SEVI	FR Y	λ
	8-10-1867/530 3-1	=-00/307, o-11=-03/ 61808/384	591,	or the orienta	ation of the purlin a	iong the	top and/or			_	Ba			2
NOTES	0 10-1007/008, 0-1	0-1000/00+		Dottom chord	ı. Oralı -					- 1		1 TK	- And a la	3
NULES			LC	DAD CASE(S)	Standard					-	y X	jun.		N

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



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June 14,2024

NUMBER

PE-200101880

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 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 besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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/TPH1 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.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B12	Roof Special	1	1	Job Reference (optional)	166262058

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:34 ID:Ir3Y21BRh8abt_5TG9kvU7zeBID-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

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DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 07/18/2024 8:50:10



Scale = 1:58.7

Plate Offsets (X, Y):	[2:0-3-11.Edge], [13:0-2-8.Edge], [18:0-1-12.0-2-12]	

	(,,, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1) E = = ; = ; = ; = ; = ; = ;	,	,								-	
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.89	Vert(LL)	-0.31	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.93	Vert(CT)	-0.63	17-18	>560	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	NO		WB	0.87	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 166 lb	FT = 20%
							·			-		· ·	
LUMBER			2)	Wind: ASCE	7-16; Vult=115m	ph (3-sec	cond gust)						
TOP CHORD	2x4 SP No.2 *Excep 2.0E	ot* 4-5:2x4 SP 2400F		Vasd=91mpl Ke=1.00; Ca	r; TCDL=6.0psf; E t. II; Exp C; Enclo	SCDL=6.0 sed; MW	Jpsf; h=35ft; /FRS (envelo	pe)					
BOT CHORD	2x4 SP No.2 *Excep 1.5E	ot* 16-18:2x4 SP 165	0F	exterior zone Interior (1) 3-	e and C-C Exterior -7-0 to 14-9-0, Ext	r(2E) -1-5 terior(2E)	5-0 to 3-7-0,) 14-9-0 to						
WEBS	2x4 SPF No.3 *Exce	ept* 18-2:2x4 SP No.	2	17-6-12, Inte	rior (1) 17-6-12 to	21-5-4,	Exterior(2R)						
BRACING				21-5-4 to 26-	5-4, Interior (1) 20	6-5-4 to 2	29-4-4 zone;						
TOP CHORD	Structural wood she	eathing directly applie	d or	cantilever let	t and right expose	ed; end v	/ertical left ar	าด					
	2-7-9 oc purlins, ex	cept end verticals, ar	nd	for reactions	shown: Lumber F	S = 10	Des & WWFF	10					
	2-0-0 oc purlins (3-1	10-9 max.): 6-8, 9-10.		DOL=1.60	Shown, Edinber E	JOL-1.00	plate grip						
BOT CHORD	Rigid celling directly	applied or 6-0-0 oc	3)	Provide adeo	quate drainage to	prevent	water pondin	q.					
WEBS	1 Row at midnt	3-18	4)	All plates are	MT20 plates unle	ess other	wise indicate	ed.					
REACTIONS	(size) 11- Mech	anical 18-0-5-8	5)	This truss ha	s been designed	for a 10.0	0 psf bottom						
REACTIONS	Max Horiz 18=98 (I)	C 9)		chord live loa	ad nonconcurrent	with any	other live loa	ads.					
	Max Uplift 11=-238	(IC9) 18=-293 (IC)	₃₎ 6)	* This truss h	has been designed	d for a liv	e load of 20.	0psf					
	Max Grav 11=1367	(LC 2), 18=1463 (LC	2)	on the bottor	n chord in all area	as where	a rectangle						
FORCES	(lb) - Maximum Con	noression/Maximum	_,	3-06-00 tall t	by 2-00-00 wide w	with PC	Veen the bott	om f					
1011020	Tension		7)	Rearings are	assumed to be:	loint 18 9	SP 1650F 1 5	1. SE					
TOP CHORD	1-2=0/35, 2-3=-387/	/172, 3-5=-2063/522,	()	crushing cap	acity of 565 psi		5 10501 1.5						
	5-6=-1957/577, 6-7=	=-2116/584,	8)	Refer to aird	er(s) for truss to tr	russ conr	nections.						
	7-8=-2125/587, 8-9=	=-2063/507, 9-10=-73	8/39, 9)	Provide mec	hanical connectio	n (by oth	ers) of truss	to					
	10-11=-29/14, 2-18=	=-488/319		bearing plate	e capable of withst	tanding 2	238 Ib uplift af	t					Th
BOT CHORD	17-18=-584/1937, 1	5-17=-445/1609,		joint 11 and 2	293 lb uplift at joir	nt 18.						OF A	ALL ALL
	14-15=-31/149, 13-	14=-18/13, 7-13=-185 4 42 244/1100	9/86, 10)) This truss is	designed in accor	dance w	ith the 2018					ALE OF M	115S
WEBS	3-17-237/216 5-1	1-12=-344/1109 776/5/3		International	Residential Code	sections	3 R502.11.1 a	and			6		N.S
WLDS	5-15=-150/652 6-1	5=-1270/391	14	R802.10.2 a	nd referenced sta	ndard AN	NSI/TPT1.	oi z o			R	SCOTI	M. EN
	13-15=-524/1959.6	-13=-199/652.		or the orient	ation of the purlin	along the	top and/or	SIZE			2	7 SEVI	ER \V
	8-13=-180/481, 8-12	2=-108/147,		bottom chore		along the					1 +	-1	·
	9-12=-150/861, 9-1	1=-1617/493,	10	DAD CASE(S)	Standard						V ()	I and	
	3-18=-1855/395		_	5/12 6/102(0)	olandara							and a	zorien
NOTES										_	YX 7	NUM	ER TER
1) Unbalance	ed roof live loads have	been considered for									N.	OX PE-20010	J18807
this desigr	n.										Y	NO NO	154
												SION	FN
												WANA	
												and	
												June	14,2024



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	B13	Roof Special	1	1	Job Reference (optional)	166262059

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:34 ID:X0i77eWRoxR_4uVcjGjixKzeBjV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

15-6-12 19-10-0 |<u>-1-5-0</u> |1-5-0 19-5-0 7-6-10 14-9-0 24-8-11 29-6-0 0-5-0 7-6-10 7-2-6 3-10-4 4-10-11 4-9-5 0-9-12 7x8= 12 4 Г 6x6= MT18HS 5x8 II 5 ß 6 7 3x4 = \bowtie 3x4 👟 4x6 ≠ 19 208 4 3 15 4x6≈ 6-7-0 6-2-3 6-2-3 9 18 MT18HS 5x8 # 1-11-8 2 1-8-0 10 --11 13 17 1.5x4 II 6 3x8= 15 21 16 14 3x4 II 5x5= 3x4= 3x4= 3x10= 5x8 = 10-2-13 15-5-0 19-5-0 24-8-11 29-6-0 10-2-13 5-2-3 4-0-0 5-3-11 4-9-5

Scale = 1:58.7

Plate Offsets	(X, Y): [2:0-3-11,Edge	e], [11:0-3-8,0-1-8], [1	12:0-2-4,0-2	2-12], [14:0-3-	8,0-1-8], [17:0-1-1	2,0-2-12							
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.97 0.86 0.78	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.31 -0.63 0.06	(loc) 16-17 16-17 10	l/defl >999 >558 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 159 lb	GRIP 244/190 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP 1650F 1.5E No.2, 7-9,4-1:2x4 S 2x4 SP No.2 *Excep 15-17:2x4 SP 1650 2x4 SPF No.3 *Exc No.2 Structural wood she except end verticals (4-5-2 max.): 6-7. Rigid ceiling directly bracing. 1 Row at midpt (size) 10= Mec Max Horiz 17=85 (L	*Except* 5-6:2x6 SF P No.2 pt* 13-7:2x4 SPF No. F 1.5E ept* 17-2,10-9:2x4 S eathing directly applie s, and 2-0-0 oc purlin y applied or 8-8-10 or 3-17 hanical, 17=0-5-8 C 12)	2) PF 3, P ed, s c 3) 4) 5) 6)	Wind: ASCE Vasd=91mpi Ke=1.00; Ca exterior zone Interior (1) 3 15-6-12, Inte 19-5-0 to 24 cantilever lef right expose for reactions DOL=1.60 Provide adee All plates are This truss ha chord live loa * This truss ha	7-16; Vult=115m n; TCDL=6.0psf; E t. II; Exp C; Enclo and C-C Exterio -7-0 to 14-9-0, Ex rrior (1) 15-6-12 tc -5-0, Interior (1) 2 t and right exposs d;C-C for membel shown; Lumber I quate drainage to b MT20 plates unl is been designed ad nonconcurrent nas been designed	ph (3-sec BCDL=6.0 ssed; MW r(2E) -1-5 terior(2E) b 19-5-0, i 4-5-0 to 2 ed ; end v rs and for DOL=1.60 prevent v ess other for a 10.0 with any d for a liv	ond gust))psf; h=35ft; FRS (envelop ;-0 to 3-7-0, 14-9-0 to Exterior(2R))9-4-4 zone; ertical left an ces & MWFR) plate grip water ponding wise indicate 0 psf bottom other live loa e load of 20.0	d RS J. d. ds. Dpsf					
FORCES TOP CHORD BOT CHORD WEBS	Max Uplift 10=-234 Max Grav 10=1366 (lb) - Maximum Cor Tension 1-2=0/35, 2-3=-397 5-6=-1533/512, 6-7 7-8=-1981/567, 8-9 2-17=-494/319, 9-1 16-17=-550/1927, 1 13-14=-17/80, 12-1 11-12=-457/1703, 1 6-12=-93/424, 8-12 3-17=-1835/402, 9- 3-16=-216/212, 5-1 6-14=-361/142 12-	(LC 9), 17=-293 (LC (LC 2), 17=1461 (LC npression/Maximum /173, 3-5=-2064/546, =-1842/561, =-1832/480, 0=-1294/388 4-16=-427/1648, 3=0/115, 7-12=-32/3; 0-11=-47/61 =-30/191, 11=-437/1758, 6=-74/496, 14=-427/1628	8) 2) 7) 8) 9) 27, 10 11	on the bottoo 3-06-00 tall I chord and an Bearings are crushing cap Refer to gird Provide mec bearing plate joint 10 and) This truss is International R802.10.2 a) Graphical pu or the orient: bottom chore	n chord in all area by 2-00-00 wide w y other members assumed to be: , acity of 565 psi. er(s) for truss to t hanical connectio e capable of withs 293 lb uplift at joir designed in acco Residential Code and referenced sta arlin representation ation of the purlin 5.	as where will fit betw, s, with BC Joint 17 S russ conr n (by oth tanding 2 ht 17. rdance wi e sections ndard AN n does no along the	a rectangle veen the botto DL = 10.0psf P 1650F 1.5 rections. ers) of truss t 34 lb uplift at ith the 2018 R 502.11.1 a ISI/TPI 1. ot depict the s top and/or	om E o nd				STATE OF M SCOTT SEVI	MISSOUR MISSOUR ER
NOTES	8-11=-474/224	happa papaidars = fa	. LC	OAD CASE(S)	Standard						K	PE-2001	18807 EA

 Unbalanced roof live loads have been considered for this design.

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June 14,2024

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Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	C01	Roof Special Girder	1	1	Job Reference (optional)	166262060

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:34 ID:AeRCOyHWm1HSkpGoOHj2Loz7HuD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 277 lb uplift at

This truss is designed in accordance with the 2018

10) Graphical purlin representation does not depict the size

11) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails

12) In the LOAD CASE(S) section, loads applied to the face

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

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 7-8=-70,

of the truss are noted as front (F) or back (B).

or the orientation of the purlin along the top and/or

R802.10.2 and referenced standard ANSI/TPI 1.

International Residential Code sections R502.11.1 and

joint 15 and 197 lb uplift at joint 9.

- TOP CHORD 1-2=0/35, 2-3=-608/375, 3-4=-818/541, 4-5=-818/541. 5-6=-741/436. 7-8=0/0. 8) 2-15=-696/508 BOT CHORD 14-15=-86/40, 13-14=-341/553, 12-13=-380/679, 11-12=-219/369, 10-11=-264/154. 7-11=-342/227. 6-7=-493/309, 9-10=0/0
- WEBS 8-9=-327/183, 3-14=-194/156 4-13=-245/217, 3-13=-196/346, 5-12=-73/97, 5-13=-135/215, 2-14=-334/609, 6-12=-198/350

NOTES

Scale = 1:43.3

Loading

TCDL

BCLL

BCDL

WEBS

LUMBER

TOP CHORD

BOT CHORD

BRACING

TOP CHORD

BOT CHORD

FORCES

TCLL (roof)

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

> 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 trust 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 BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

bottom chord.

1)

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

per NDS guidelines.

LOAD CASE(S) Standard

Plate Increase=1.15

Uniform Loads (lb/ft)

11-15=-20, 9-10=-20 Concentrated Loads (lb)



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	C02	Roof Special Girder	1	2	Job Reference (optional)	166262061

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:35 ID:RoDROLE8cpiSAiewuld1vzz7Hrh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:44

Plate Offsets (X, Y): [3:0-2-8,0-2-11], [9:0-8-8,0-2-0], [11:0-3-8,0-4-12], [12:0-3-0,0-4-8]

Loading	(psf)	Spacing	1-10-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	1.00	Vert(LL)	-0.07	10-11	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	1.00	Vert(CT)	-0.13	10-11	>999	180	MT18HS	197/144	
BCLL	0.0*	Rep Stress Incr	NO		WB	0.58	Horz(CT)	0.08	7	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		()					Weight: 149 lb	FT = 20%	
		-	2)	All loads are	considered equal	v annlie	d to all nlies		14) lse	Simps	on Stro	ng-Tie HUS26 (1	4-10d Girder 4-1	10d
	2v4 SP No 2		2)	except if note	ed as front (F) or b	ack (B)	face in the I C	DAD	Tru	ss) or ea	nuivale	nt spaced at 2-0-	0 oc max startin	n at
	2x4 ST N0.2	nt* 10-8-2v4 SPE No	- 3	CASE(S) sec	ction Ply to ply co	nnection	s have been		1-0-	-0 from t	he left	end to 11-0-0 to	connect truss(es) to
	8-7.2v4 SP No 2	pt 10-0.2x+ 011 Nt	5.5,	provided to d	listribute only load	s noted	as (F) or (B).		bac	k face o	f botto	m chord.		,
WEBS	2x4 SPE No 3 *Exce	nt* 6-7 13-2 12-2.2x	4 SP	unless other	wise indicated.		() - (),		LOAD	CASE(S) Sta	ndard		
iii Ebo	No 2	pt 01,102,122.2x	3)	Unbalanced	roof live loads hav	e been o	considered fo	r	1) De	ad + Ro	of Live	(halanced): Lum	ber Increase=1	15
BRACING	11012		,	this design.					Pla	ate Incre	ase=1	.15		10,
	Structural wood she	athing directly applie	dor 4)	Wind: ASCE	7-16; Vult=115mp	h (3-sec	ond gust)		Ur	hiform Lo	bads (I	o/ft)		
	4-11-13 oc purlins	excent end verticals	and	Vasd=91mph	n; TCDL=6.0psf; B	CDL=6.	Opsf; h=35ft;			Vert: 1-	2=-64.	2-3=-64. 3-4=-64	. 4-5=-64. 5-6=-6	64.
	2-0-0 oc purlins (5-7	-11 max): 3-4 5-6	ana	Ke=1.00; Ca	t. II; Exp C; Enclos	sed; MW	FRS (envelop	pe)		10-13=-	18. 7-8	3=-18	, ,	,
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc		exterior zone	and C-C Exterior	(2E) -1-5	5-0 to 3-7-0,		Co	oncentra	ted Lo	ads (lb)		
	bracing.			Interior (1) 3-	-7-0 to 4-7-6, Exte	rior(2E)	4-7-6 to 11-6-	-2,		Vert: 16	=-1294	1 (B), 17=-1293 (I	B), 18=-1293 (B),	,
REACTIONS	(size) 7= Mecha	nical 13=0-5-8		Interior (1) 1	1-6-2 to 12-9-8 zor	ne; canti	lever left and	right		19=-129	93 (B),	20=-1293 (B), 21	=-1293 (B)	
	Max Horiz 13=82 (I C	(11)		exposed ; en	d vertical left and	right exp	osed;C-C for	r						
	Max Uplift 7=-795 (1)	C 9) 13=-967 (I C 8))	members and	d forces & MWFR	S for rea	ctions shown	ı;						
	Max Grav 7=4107 (I	$C(1)$ 13=4796 (I C $^{\prime}$, 1) _\	Lumber DOL	=1.60 plate grip D	OL=1.60)							
FORCES	(lb) Movimum Com		·/ 5)	Provide adec	uate drainage to p	orevent	water ponding	g.						
FURCES	(ID) - Maximum Com	pression/maximum	6)	All plates are	MI20 plates unle	ess other	wise indicate	ed.						
	1_2_0/32 2_3_5207	/1217 3-11801/11	180	I his truss ha	s been designed f	or a 10.0	J psr bottom							
	4-5=-5747/1326 5-6	-651/129	00,	* This truce h		with any	other live loa	las. Deof						
	7-9=-3919/892 6-9=	-147/26 2-13=-3347	7/945	on the better	as been designed	n i i i i i a i i v	e load of 20.0	opsi						
BOT CHORD	12-13=-282/435 11-	12=-1240/5319	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		11 Chord in all areas	S WITETE	a reclarigie	om						
	10-11=-756/3030. 9-	10=-766/3116.		chord and an	y other members	II III DEIV	veen me bou	UIII						
	8-10=-178/52, 7-8=-8	89/21	9)	Bearings are	assumed to be	oint 13.9	SPE No 2					2000	TOP	
WEBS	3-12=-275/1545, 4-1	1=-345/2007,	0)	crushing can	acity of 425 nsi		0111100.2					A OF M	Alson	
	5-11=-536/2588, 5-9	=-3684/968,	10) Refer to girde	er(s) for truss to tru	uss conr	nections					7.50	1.0°	
	2-12=-1014/4742, 4-	12=-802/147	11) Provide mecl	hanical connection	h (by oth	ers) of truss t	to			A	N/ anom	Ver l	1
NOTES				bearing plate	capable of withst	anding 7	95 lb uplift at	t			H	SCOT	$M. \qquad \mathbf{V} \sim \mathbf{V}$	0
1) 2-ply truss	s to be connected toget	her with 10d		joint 7 and 96	67 lb uplift at joint	13.					Br	-/ SEVI	ER	X
(0.131"x3	") nails as follows:		12) This truss is	designed in accord	dance w	ith the 2018				0		0 \ 🛪	И
Top chord	s connected as follows	: 2x4 - 1 row at 0-9-	0	International	Residential Code	sections	R502.11.1 a	nd			ØX.	Latter.	NON	X
oc.				R802.10.2 ar	nd referenced star	ndard AN	ISI/TPI 1.						geore	y
Bottom ch	nords connected as follo	ows: 2x6 - 3 rows	13) Graphical pu	rlin representation	does no	ot depict the s	size		-	17		DER A	A
ctaggorod	1 at 0 8 0 ac 2x4 1 roy	w at 0-9-0 oc		or the orients	ation of the nurlin a	along the	ton and/or				1 1	ON PE-2001	118807 1451	И

staggered at 0-8-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

or the orientation of the purlin along the top and/or bottom chord.



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Page: 1

 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 besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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/TPH1 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.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	C03	Roof Special Girder	1	1	Job Reference (optional)	166262062

1)

2)

3)

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:35 ID:JltgWHgfhNn71UYudwH0V2z7HsQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



June 14,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	C04	Roof Special Girder	1	2	Job Reference (optional)	166262063

1)

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:35 ID:hcNYYgARUTPXvY1juzV5XCz7HqU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

13-11-4



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	CJ1	Jack-Open	3	1	Job Reference (optional)	166262064

<u>-2-0-1</u> 2-0-1

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:35 ID:arBBSFclbmGJfU5Z_G5kznzeD92-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-7-6

2-7-6

2-7-6

Page: 1





Scale =	1:22.1
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Plate Offsets (X, Y): [2:0-5-7,Edge]

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	2-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P			-				Weight: 11 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP No.2		 Provide means bearing plat 	chanical connection e capable of withst	n (by oth tanding 8	ers) of truss to Ib uplift at joi	o nt 3					
BOT CHORD	2x4 SP No.2		and 182 lb u	iplift at joint 2.								
BRACING			This truss is	designed in accor	rdance w	ith the 2018						
TOP CHORD	Structural wood sh 2-7-6 oc purlins.	eathing directly applie	d or Internationa R802.10.2 a	I Residential Code	ndard AN	ISI/TPI 1.	nd					
BOT CHORD	Rigid ceiling directl bracing.	y applied or 10-0-0 oc	LOAD CASE(S)	Standard								
REACTIONS	(size) 2=0-7-6, Mechani	3= Mechanical, 4= cal										
	Max Horiz 2=53 (LC	8)										
	Max Uplift 2=-182 (LC 8), 3=-8 (LC 13)										
	Max Grav 2=346 (L (LC 3)	.C 1), 3=18 (LC 8), 4=	45									
FORCES	(lb) - Maximum Co Tension	mpression/Maximum										
TOP CHORD	1-2=0/30, 2-3=-44/	17										
BOT CHORD	2-4=0/0											
NOTES												
1) Wind: ASC Vasd=91n Ke=1.00; exterior zc and right e exposed;C reactions DOL=1.60	CE 7-16; Vult=115mp nph; TCDL=6.0psf; Br Cat. II; Exp C; Enclos one and C-C Corner (exposed ; end vertica 2-C for members and shown; Lumber DOL=	h (3-second gust) CDL=6.0psf; h=35ft; ed; MWFRS (envelop: 3) zone; cantilever left left and right forces & MWFRS for =1.60 plate grip	e) :							ä	STATE OF M	MISSOUR
2) This truss	has been designed for	or a 10.0 psf bottom	le .							a	SEVI	ER VV
3) * This true	load nonconcurrent v	for a live load of 20.0	IS. oef							10+		
on the bot 3-06-00 ta chord and	tom chord in all areas all by 2-00-00 wide will any other members.	where a rectangle I fit between the botton	m						~	Ç	NUM	BER
 Bearings a capacity o 	are assumed to be: , of 565 psi.	Joint 2 SP No.2 crushi	ing							Ø.	PE-2001	018807
5) Refer to g	irder(s) for truss to tru	iss connections.									SSIONA	L ENGINE

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June 14,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	CJ02	Jack-Open	2	1	Job Reference (optional)	166262065

2-3-10

1-8-0

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:35 ID:B20vsS3NPLsGVEHwG3RjVOzeDLN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3



3x4 II 2

12 2.83 ┌



3x6 II

2-8-7

Scale :	= 1:27.4
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Loading TCLL (roof)		(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.54	DEFL Vert(LL)	in 0.00	(loc) 4-5	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.13	Vert(CT)	0.00	4-5	>999	180		
BCLL		0.0*	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL		10.0	Code	IRC2018	3/TPI2014	Matrix-R							Weight: 13 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SP No.2 2x4 SP No.2 2x4 SPF No.	.3		6) 7)	Provide med bearing plate joint 5 and 3 This truss is International	chanical connection e capable of withsta 0 lb uplift at joint 3. designed in accord Residential Code	i (by oth anding 1 dance w sections	ers) of truss to 42 lb uplift at ith the 2018 s R502.11.1 at	nd					
TOP CHORD	Structural we	ood shea	athing directly applie	d or	R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.						
BOT CHORD	2-8-7 oc purlins, except end verticals. LOAD CASE(S) Standard Rigid ceiling directly applied or 10-0-0 oc bracing.													
REACTIONS	(size) 3= 5=	= Mecha =0-7-6	nical, 4= Mechanica	ıl,										
	Max Horiz 5=	=60 (LC	9)											
	Max Uplift 3=	=-30 (LC	12), 5=-142 (LC 8)											
	Max Grav 3= (L	=35 (LC .C 1)	1), 4=44 (LC 3), 5=3	328										
FORCES	(lb) - Maximi	um Com	pression/Maximum											
	Tension		105 0 0 00/40											
TOP CHORD	2-5=-290/41	5, 1-2=0	/35, 2-3=-32/16											
NOTES	4-5=0/0													
NUIES		115mph	(2 accord quat)											
Vasd=91r Ke=1.00; exterior z and right	mph; TCDL=6.0 Cat. II; Exp C; one and C-C C exposed ; end)psf; BCl Enclose orner (3) vertical l	DL=6.0psf; h=35ft; d; MWFRS (envelop) zone; cantilever lef eft and right	e) t										all the
exposed; reactions	C-C for membe shown; Lumbe	rs and for r DOL=1	orces & MWFRS for .60 plate grip										TE OF M	AISSO

DOL=1.60 This truss has been designed for a 10.0 psf bottom 2)

chord live load nonconcurrent with any other live loads.

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Bearings are assumed to be: , Joint 5 SP No.2 crushing 4) capacity of 565 psi.

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

SCOTT M. SEVIER NUMBER PE-2001018807 SIONAL E



Page: 1

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CTION **IEW** DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 07/18/2024 8:50:10

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	CJ03	Jack-Open	2	1	Job Reference (optional)	166262066

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:35 ID:CFLd4WwsxGnoTg8BEEJWeHzeDQj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



12 2.83 Г

2-9-2



Page: 1



3x6 🛛

Scale = 1:27.5														
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.54	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.13	Vert(CT)	0.00	4-5	>999	180		
BCLL		0.0*	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL		10.0	Code	IRC20)18/TPI2014	Matrix-R							Weight: 13 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP N 2x4 SP N 2x4 SPF Structura 2-9-2 oc Rigid ceil bracing.	lo.2 lo.2 No.3 I wood she purlins, ex ling directly	athing directly appli cept end verticals. applied or 10-0-0 c	ied or	 Frovide me bearing pla joint 5 and 1 This truss is Internationa R802.10.2 LOAD CASE(S) 	techanical connect te capable of wit 31 lb uplift at join s designed in ac al Residential Co and referenced s) Standard	tion (by oth hstanding 1 nt 3. cordance w ode sections standard AN	ers) of truss 42 lb uplift a ith the 2018 5 R502.11.1 a ISI/TPI 1.	to it and					
REACTIONS	(size)	3= Mecha 5-0-7-6	anical, 4= Mechanic	al,										
	Max Horiz	5=60 (LC	9)											
	Max Unlift	3=-31 (10	(12) 5=-142 (I C 8))										

Max Grav 3=39 (LC 1), 4=45 (LC 3), 5=329 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-291/416, 1-2=0/35, 2-3=-32/16 BOT CHORD 4-5=0/0

NOTES

Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing 4) capacity of 565 psi.

Refer to girder(s) for truss to truss connections. 5)



June 14,2024





Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	CJ04	Jack-Open	3	1	Job Reference (optional)	166262067

2-3-6

1-8-0

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:36 ID:wvI4XGEnRkvU_zOfJK2?MkzeDAq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3



3x4 🛛



2-7-6

12 2.83 Г

Scale = 1:27.4

Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.54	DEFL Vert(LL)	in 0.00	(loc) 4-5	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDI	10.0	Lumber DOI	1 15		BC	0.12	Vert(CT)	0.00	4-5	>999	180		
BCLI	0.0*	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.01	. 3	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-R	0.00		0.01	0	1.74		Weight: 12 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SPF No.3 Structural wood she 2-7-6 oc purlins, exe Rigid ceiling directly	athing directly appli cept end verticals. applied or 10-0-0 o	6) 7) ed or LC	Provide mec bearing plate joint 5 and 2 This truss is International R802.10.2 a DAD CASE(S)	hanical connect capable of wi 8 lb uplift at join designed in act Residential Co nd referenced Standard	ction (by othe thstanding 1 nt 3. ccordance wi ode sections standard AN	ers) of truss t 43 lb uplift at th the 2018 R502.11.1 a SI/TPI 1.	to t					
REACTIONS	(size) 3= Mecha	nical. 4= Mechanic	al.										
	5=0-7-6		,										
	Max Horiz 5=59 (LC	9)											
	Max Uplift 3=-28 (LC	2 12), 5=-143 (LC 8))										
	Max Grav 3=30 (LC (LC 1)	1), 4=42 (LC 3), 5=	326										
FORCES	(lb) - Maximum Compression/Maximum Tension												
TOP CHORD	2-5=-289/414, 1-2=0)/35, 2-3=-32/16											
BOT CHORD	4-5=0/0												
NOTES													
1) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)											

1 Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing 4) capacity of 565 psi.

Refer to girder(s) for truss to truss connections. 5)

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June 14,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	HG1	Lay-In Gable	1	1	Job Reference (optional)	166262068

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:36 ID:4aaBILsmFzqQEJMVaBas7szeC6t-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



21	-4-	1	1

Scale = 1:68.9

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

H

Loading		(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	NO		WB	0.27	Horiz(TL)	0.01	13	n/a	n/a		
BCDL		10.0	Code	IRC2)18/TPI2014	Matrix-S							Weight: 142 lb	FT = 20%
													····g····	
LUMBER					BOT CHORD	1-24=-239/340, 23-	24=-23	9/340,		10) Pro	vide me	chanic	al connection (by	others) of truss to
TOP CHORD	2x4 SP N	0.2				21-23=-239/340, 20)-21=-2	39/340,		bea	ring plat	e capa	ble of withstandir	ng 148 lb uplift at
BOT CHORD	2x4 SP N	0.2				19-20=-239/340, 18	8-19=-2	39/340,		join	t 1, 109	lb uplif	t at joint 13, 137 I	b uplift at joint 24,
OTHERS	2x4 SPF	No.3				17-18=-239/340, 16	6-17=-2	39/340,		137	' lb uplift	at join	t 23, 132 lb uplift	at joint 21, 160 lb
BRACING						15-16=-239/340, 14	1-15=-2	39/340,		upli	ft at joint	20, 18	B lb uplift at joint 1	9, 164 lb uplift at
TOP CHORD	Structura	l wood shea	athing directly applie	d or		13-14=-239/340				join	t 17, 133	lb up	ift at joint 16, 137	lb uplift at joint 15
	6-0-0 oc i	ourlins.	5,		WEBS	2-24=-178/154, 3-2	3=-185	/162,		and	l 137 lb ι	iplift at	t joint 14.	
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 oc			4-21=-179/157, 5-2	0=-209	/185,		11) This	s truss is	desig	ned in accordanc	e with the 2018
	bracing.					6-19=-129/38, 8-18	=-107/2	2, 9-17=-209/1	88,	Inte	rnationa	I Resid	dential Code secti	ons R502.11.1 and
WEBS	1 Row at	midpt	6-19, 8-18			10-16=-179/156, 11	-15=-1	85/162,		R80)2.10.2 a	ind ref	erenced standard	I ANSI/TPI 1.
REACTIONS	(size)	1=21-4-11	1. 13=21-4-11.			12-14=-178/154				LOAD	CASE(S)	Star	ndard	
	()	14=21-4-1	1, 15=21-4-11,		NOTES									
		16=21-4-1	1, 17=21-4-11,		 Unbalanced 	roof live loads have	e been	considered for						
		18=21-4-1	1, 19=21-4-11,		this design.									
		20=21-4-1	1, 21=21-4-11,		Wind: ASCE	7-16; Vult=115mpl	h (3-seo	cond gust)						
		23=21-4-1	1, 24=21-4-11		Vasd=91mp	h; TCDL=6.0psf; B0	CDL=6.	0psf; h=35ft;						
	Max Horiz	1=-310 (L	C 8)		Ke=1.00; Ca	it. II; Exp C; Enclos	ed; MW	FRS (envelop	e)					
	Max Uplift	1=-148 (L	C 10), 13=-109 (LC 1	11),	exterior zon	e and C-C Exterior	2E) 0-4	-1 to 5-4-1,						
		14=-137 (LC 13), 15=-137 (LC	13),	Interior (1) 5	-4-1 to 10-8-9, Exte	rior(2R) 10-8-9 to	- 4					
		16=-133 (LC 13), 17=-164 (LC	13),	15-5-9, Inter	101 (1) 15-5-9 to 21-		ie; cantilever i	en					
		19=-18 (L	C 9), 20=-160 (LC 12	2),	and right exp	Sosed ; end venical	forces							
		21=-132 (LC 12), 23=-137 (LC	12),	reactions sh	own: Lumbor DOI -	1 60 pl	ato arin						
		24=-137 (LC 12)			own, Lumber DOL=	1.00 pi	ate grip						~
	Max Grav	1=342 (LC	C 12), 13=317 (LC 13	3),	2) Truce docio	nod for wind loads	in tha n	long of the true	20				CON	TOP
		14=208 (L	-C 20), 15=207 (LC 2	20),	only For st	ide exposed to win	d (norm	al to the face)	55				OF M	AIS C
		16=204 (L	.C 20), 17=219 (LC 2	20),	see Standar	d Industry Gable Fr	nd Deta	ils as annlicab	, 10			1	750	-00 M
		18=141 (L	.C 21), 19=163 (LC 1	19),	or consult a	alified building des	igner a	s ner ANSI/TP	10,			A	NY score	New
		20=213 (L	C 19), 21=207 (LC 1	19),	 All plates are 	a 1 5x4 MT20 unles	s other	wise indicated				A	s scor	M. YAY
		23=206 (L	LC 19), 24=208 (LC 1	19)	5) Gable requir	es continuous hotto	o ourior	d bearing				И.	/ SEVI	ER \ Y
FORCES	(lb) - Max	imum Com	pression/Maximum		 Gable studs 	spaced at 0-0-0 oc		a boaring.				20		0 · · · · · · ·
	Tension				 This truss have 	s been designed fo	ora 10 i	0 nsf hottom						Sanden
I OP CHORD	1-2=-489/	327, 2-3=-	363/226, 3-4=-228/1	66,	chord live lo	ad nonconcurrent w	ith anv	other live load	ls.		0			EP IN
	4-5=-141/	117, 5-6=-	132/155, 6-7=-102/9	/, -	8) * This truss	has been designed	for a liv	e load of 20 0	psf			27		DER JEA
	7-8=-102	/94, 8-9=-13	32/123, 9-10=-102/6	5,	on the botto	m chord in all areas	where	a rectangle				N.	OX PE-20010	118807
	10-11=-1	93/121, 11-	12=-328/226,		3-06-00 tall	by 2-00-00 wide wil	l fit betv	veen the botto	m			V	The last	158
	12-13=-4	04/321			chord and a	ny other members.							NºSIG-	ENUS
					9) All bearings	are assumed to be	SP No.	2 crushing					WNA	L
					capacity of 5	65 psi.		5					alle	555

June 14,2024

Page: 1



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 toulsable 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	HG2	Lay-In Gable	1	1	Job Reference (optional)	166262069

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:36 ID:gPh1qn6EiV4GvAb_S_4fH9zeBhR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scal	e –	. 1.5	6 9	

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

															_
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	-
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL		10.0	Lumber DOL	1.15		BC	0.06	Vert(TL)	n/a	-	n/a	999			
BCLL		0.0*	Rep Stress Incr	NO		WB	0.16	Horiz(TL)	0.01	11	n/a	n/a			
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 101 lb	FT = 20%	
															-
LUMBER	-			N	EBS 2	-20=-158/134, 3-19	9=-190	/162,	0 10	11) This	s truss is	desig	ned in accordanc	e with the 2018	
TOP CHORD	2x4 SP N	0.2			4	-17 = -206/176, 5-16	0=-151	/95, 7-15=-10	3/3,	Inte	rnationa	I Resi	dential Code sect	Ions R502.11.1 and	
BOT CHORD	2x4 SP N	0.2			6	-14=-214/188, 9-13	3=-185	/157,		R80)2.10.2 a	and ret	erenced standard	IANSI/TPI1.	
OTHERS	2x4 SPF I	No.3				0-12=-165/157				LOAD	CASE(S)	Sta	ndard		
BRACING	•			. N	OTES		h		_						
TOP CHORD	Structural	l wood she	athing directly applie	d or 1	Unbalanced	oof live loads have	been	considered to	r						
	6-0-0 oc p	purlins.		2	this design.	7 4 C .) /	(2								
BOICHORD	Rigid cell	ing directly	applied or 10-0-0 oc	; Z,	Vind Ofmoh	TCDL 6 Opert PC		Doof: b 25ft							
	bracing.	4 47 0 0			Vasu=9111pr	I CDL=0.0psi, BC	d MM	ERS (envelor	20)						
REACTIONS	(size)	1=17-3-3,	11=17-3-3, 12=17-3	-3,	exterior zone	and C-C Exterior(2	PF) 0-4	-1 to 5-3-13	00)						
		10=17-3-3), 14=17-3-3, 15=17-) 17_17-2-2-10_17	·3-3, 2.2	Interior (1) 5-	3-13 to 8-7-13 Ext	erior(2	R) 8-7-13 to							
		20-17.2.2	o, 17=17-3-3, 19=17-	-3-3,	13-7-13. Inte	rior (1) 13-7-13 to 1	6-11-9	zone: cantile	ver						
	Max Horiz	1=-248 (I	, C 8)		left and right	exposed ; end verti	cal left	and right							
	Max Unlift	1=-129 (L	C 10) 11=-85 (I C 1 ²	1)	exposed;C-C	for members and f	orces	& MWFRS for	r						
	max opint	12=-139 (LC 13), 13=-131 (LC	: 13).	reactions sho	wn; Lumber DOL=	1.60 pl	ate grip							
		14=-165 (LC 13), 16=-71 (LC ²	12).	DOL=1.60										
		17=-152 (LC 12), 19=-138 (LC	: 12), 3)	Truss desigr	ed for wind loads in	n the p	lane of the tru	ISS						
		20=-116 (LC 12)		only. For stu	ds exposed to winc	l (norm	al to the face),						
	Max Grav	1=305 (LC	C 12), 11=269 (LC 13	3),	see Standard	Industry Gable En	d Deta	ils as applical	ble,						
		12=210 (L	.C 20), 13=204 (LC 2	20),	or consult qu	alified building desi	gner a	s per ANSI/TH	-11.						
		14=218 (L	.C 20), 15=143 (LC 1	1), 4	All plates are	1.5x4 MT20 unless	s otner	wise indicated	a .						
		16=191 (L	.C 19), 17=210 (LC 1	19), 5	Gable require	es continuous potto	m choi	d bearing.							
		19=209 (L	.C 19), 20=178 (LC 1	19) 0	This trues he	spaced at 0-0-0 oc.	r o 10	a not hottom					CON	1000	
FORCES	(lb) - Max	imum Com	pression/Maximum	1,	chord live los	d nonconcurrent w	ith anv	other live loa	de				B.C. OF M	AIS C	
	lension	005 0 0		4 - 8	* This truss h	as been designed f	for a liv	e load of 20 (nao. Dosf			4	9 11	N.OS	
TOP CHORD	1-2=-426/	305, 2-3=-	320/219, 3-4=-186/1	15, 0,	on the botton	chord in all areas	where	a rectangle				8	ST SCOTT	M NON	
	4-5=-116/	100, 5-0=-90	0/77, 0-7=-09/53,		3-06-00 tall b	y 2-00-00 wide will	fit bety	veen the botto	om			R			
	10 11 - 20	9, 8-9=-13 00/206	5/80, 9-10=-260/181,	,	chord and an	y other members.						a .	SEVI		
	1_2021	00/200 2/205 10_2	0212/205	9)	All bearings a	are assumed to be	SP No.	2 crushing				10			
	17-19=-212	12/295, 19-2	17=-212/295		capacity of 5	65 psi.							att	Some)
	15-16=-2	12/295 14-	15=-212/295	10	 Provide mech 	nanical connection	(by oth	ers) of truss t	0		-	Nº-	NUMI	BER A	
	13-14=-2	12/295, 12-	13=-212/295.		bearing plate	capable of withsta	nding 1	29 lb uplift at				142	PE-20010	18807 188	
	11-12=-2	12/295	,		joint 1, 85 lb	uplift at joint 11, 11	6 lb up	lift at joint 20,	138			N	ALL LOOT	128	
					Ib uplift at joir	nt 19, 152 lb uplift a	it joint '	17, 71 lb upliff	t at			Y	23.0	JON B	
					joint 16, 165	b uplift at joint 14,	131 lb	uplift at joint 1	13				UNIA ONIA	LENA	
					ang 139 lb up	nin at joint 12.							(Dank	- 9	

joint 16, 165 lb uplift at joint 14, 131 lb uplift at joint 13 and 139 lb uplift at joint 12.

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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 colleges 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 BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	HG3	Lay-In Gable	1	1	Job Reference (optional)	166262070

Run: 8.63 E Apr 26 2024 Print: 8.630 E Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 14:30:43 ID:YZosHd0vTL2lu14QAkEIWBzeC1W-23QULfrZVcYb?KIqg4Od9zAZ7_A5Wrx2x0qXC5z6L4R Page: 1



Scale = 1:80.3

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

-													
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.18	Horiz(TL)	0.01	12	n/a	n/a		
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S							Weight: 88 lb	FT = 20%
												-	
LUMBER			3)	Truss design	ned for wind loads i	in the p	lane of the tru	uss					
TOP CHORD	2x4 SP No.2			only. For stu	as exposed to wind	a (norm	al to the face	e),					
BOT CHORD	2x4 SP No.2			see Standard	I Industry Gable Er	ia Deta	lis as applica	DIE,					
WEBS	2x4 SPF No.3		4)	or consult qu	alified building des	igner as	s per ANSI/11	PI 1.					
OTHERS	2x4 SPF No.3		4)	Provide adec	uate drainage to p	revent	water ponding	g.					
BRACING			5)	All plates are	1.5x4 IVI120 Unles	s other	d booring	α.					
TOP CHORD	Structural wood she	athing directly applie	dor $\frac{0}{7}$	Truce to be f	ully shoothod from	one fee	u beanng.						
	6-0-0 oc purlins, exc	ept	7)	braced again	st lateral movemen	one iau	iagonal web)	/ \					
DOTOLOGE	2-0-0 oc purlins (6-0	-0 max.): 3-6.	8)	Gable stude	snaced at 0-0-0 oc	n (i.e. u	agona web)	,.					
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc	9) 9)	This truss ha	s been designed fo	ora 10 () psf bottom						
	1 Proce et It(e): 22		0)	chord live loa	d nonconcurrent w	ith anv	other live loa	ads.					
JUINTS			10	* This truss h	as been designed	for a liv	e load of 20.	Opsf					
REACTIONS	All bearings 14-7-10.	2.40		on the botton	n chord in all areas	where	a rectangle	•					
- (di)	Max Horiz 1=361 (LC	- 12)		3-06-00 tall b	y 2-00-00 wide will	l fit betv	veen the bott	om					
		UU (ID) OF less at join	t(S)	chord and an	y other members.								
	12, 14, 17	, 19 except 1=-124 (11	Provide mecl	nanical connection	(by oth	ers) of truss t	to					
	10), 15=-1	144 (LC 12), 10=-151 272 (LC 12)	(LC	bearing plate	capable of withsta	nding 1	00 lb uplift at	t					
	Max Gray All reaction	ons (LC 12)	ioint	joint(s) 12, 19	9, 17, 14 except (jt=	=lb) 1=1	24, 20=372,						
	(s) 12 13	14 15 16 17 18 1	19	16=151, 15=	144.								
	20 21 ex	cent 1=292 (I C 12)	12	Beveled plate	e or shim required t	to provi	de full bearin	g					
FORCES	(lb) - Max Comp /M	av Ten - All forces 2	250 40	surface with	truss chord at joint((s) 12, 1	7, 16, 15, 14	l, 13.					
TOROLO	(lb) or less except w	hen shown	13	I NIS TRUSS IS	Designed in accord	ance w	Ith the 2018	اممد					
TOP CHORD	1-2=-460/333 2-3=-	442/334 3-4=-285/20	09	Peop 10.2 or	Residential Code s			and				000	ADD
	4-5=-300/220, 5-6=-3	301/221, 6-7=-349/2	70 14	Graphical pu	rlin representation	door n	of donict the (sizo				S OF M	Alson
WEBS	20-22=-356/396, 4-2	2=-356/396	- 14	or the orients	ition of the nurlin al	long the	ton and/or	SIZE				A IL	-0.0
NOTES				bottom chord		iong inc					a	N.	New
1) Unbalance	ed roof live loads have	been considered for	10	AD CASE(S)	Standard						H	SCOT	IM. YEY
this design	n				otandara						R	/ SEVI	ER \ Y
2) Wind: AS	CE 7-16: Vult=115mph	(3-second aust)									a \star		·
Vasd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=35ft;									-40	1 1 1 m	~ 2> 1.~~
Ke=1.00;	Cat. II; Exp C; Enclose	d; MWFRS (envelop	e)								JA.	Letter .	- enters
exterior zo	one and C-C Exterior(2	E) 0-0-0 to 5-2-0,									17		
Interior (1)) 5-2-0 to 12-9-6, Exter	ior(2E) 12-9-6 to 14-	5-3								N.	ON PE-2001	11880/ 10881
zone; can	tilever left and right exp	posed ; end vertical le	eft								V	1 Bal	154
and right e	exposed;C-C for memb	ers and forces &										A STON	FN
MWFRS f	or reactions shown; Lu	mber DOL=1.60 plat	е									WNA	L
grip DOL=	=1.60											Un	

June 14,2024





Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	HG4	Lay-In Gable	1	1	Job Reference (optional)	166262071

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:36 ID:DCzDukS2acqSzgn?pNKu14zeBz4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

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07/18/2024 8:50:10



Scale = 1:51.4

Plate Offsets	X Y).	[3·0-1-7 Edge]	[6.0-0-10 0-1-8]
	(//, -	<i>.</i>	[0.0 i i, Euge],	

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	i i,Eugej	, [0:0 0 10,0 1 0]											
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC20)18/TPI2014	CSI TC BC WB Matrix-S	0.05 0.03 0.04	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 25 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD JOINTS REACTIONS	2x4 SP N 2x4 SP N 2x4 SPF 1 2x4 SPF 1 Structural 5-0-0 oc p 2-0-0 oc p Rigid ceili bracing. 1 Brace a (size) Max Horiz Max Uplift Max Grav	o.2 o.2 No.3 No.3 I wood shee purlins, exc purlins: 3-7 ing directly at Jt(s): 11 1=4-11-1 9=4-11-1 1=57 (LC 6=-13 (LC (LC 12) 1=40 (LC (LC 26), ! 3) cimum Con	 sathing directly applie cept 7. / applied or 6-0-0 oc 4, 6=4-11-14, 8=4-11 4, 10=4-11-14 > 12) C 9), 8=-42 (LC 8), 9= > 1), 6=38 (LC 1), 8=1 9=170 (LC 1), 10=20 mpression/Maximum 	2 (2 (2 (2 (2 (2 (2 (2 (Truss desig only. For stu see Standar or consult qu Provide adee Gable requir Truss to be f braced agair Gable studs This truss h chord live lo * This truss l on the botton 3-06-00 tall l chord and a 10) All bearings capacity of 5 Bearing at jc value using designer shi Provide mec bearing plat 	ned for wind loads Jds exposed to wird d Industry Gable E Jalified building dei quate drainage to j res continuous bott fully sheathed from nst lateral moveme spaced at 0-0-0 of as been designed fad nonconcurrent has been designed m chord in all area by 2-00-00 wide wi ny other members. are assumed to be 565 psi. bint(s) 10, 6, 9, 8 cr ANSI/TPI 1 angle f ould verify capacity chanical connection e capable of withst	In the p In the p Ind (norm ind Deta signer as prevent i tom chor i one fac ant (i.e. d c. for a 10.0 with any d for a liv as where ill fit betw - e SP No. onsiders to grain f y of bear n (by oth tanding 1	ane of the frace al to the face ils as applica s per ANSI/TI water ponding d bearing. e or securely liagonal web) 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto 2 crushing parallel to gr ormula. Buili ing surface. 3 lb uplift at j	uss ble, ble, PI 1. g. , , , , , , , , , , , , , , , , , ,					
TOP CHORD BOT CHORD WEBS 1) Unbalance this design 2) Wind: ASC Vasd=91n Ke=1.00; (exterior zc and right exposed;(reactions : DOL=1.60	I ension 1-2=-49/3 5-6=-3/2, 9-10=-10/ 9-11=-147 2-11=-3/4 ed roof live I n. 2E 7-16; Vu nph; TCDL= Cat. II; Exp pne and C-C exposed; eu 2-C for merr shown; Lurr)	I5, 2-3=-43 6-7=0/1 /27, 8-9=-2 7/96, 4-11= Ioads have IIt=115mph =6.0psf; BC C; Enclose C Exterior(2 nd vertical nbers and 1 nber DOL=	 i/44, 3-4=-4/3, 4-5=-1. i/9/29, 6-8=-24/8 =-147/96, 5-8=-135/63 been considered for n (3-second gust) DL=6.0psf; h=35ft; ad; MWFRS (envelop 2E) zone; cantilever l/ left and right forces & MWFRS for 1.60 plate grip 	/1, / ,3,	 6, 43 lb uplif 13) Beveled plat surface with 14) This truss is International R802.10.2 a 15) Graphical pu or the orient bottom chore LOAD CASE(S) 	t at joint 9 and 42 l e or shim required truss chord at join designed in accord l Residential Code nd referenced star ulin representation ation of the purlin a d. Standard	b uplift a to provi t(s) 1, 10 dance w sections ndard AN n does nd along the	It joint 8. de full bearin, 0, 6, 9, 8. if the 2018 is R502.11.1 a ISI/TPI 1. of depict the s is top and/or	g und size				STATE OF M SCOT SEVI PE-2001	MISSOUR IM. R MISSOUR IM. R MISSOUR MISSOUR MISSOUR MISSOUR IM. R MISSOUR MISSOUR IM. R MISSOU
WARN Design va a truss sy building c is always fabricatio and BCS	IING - Verify de alid for use only ystem. Before u design. Bracing prequired for st n, storage, deli Building Co	esign parame y with MiTek® use, the buildi g indicated is tability and to ivery, erectior mponent Saf	eters and READ NOTES OF connectors. This design is ing designer must verify the to prevent buckling of indiv prevent collapse with poss n and bracing of trusses an fety Information available	N THIS AN is based on e applicabil vidual truss sible persor nd truss sys le from the	ID INCLUDED MITER Ily upon parameters Ilty of design parame s web and/or chord m nal injury and proper stems, see ANSI/TP Structural Building C	(REFERENCE PAGE N shown, and is for an inc iters and properly incorp nembers only. Addition; ty damage. For genera '11 Quality Criteria, and Component Association	III-7473 re dividual bui porate this al tempora d guidance d DSB-22 (www.sbc:	I/2/2023 BEFC Iding component design into the o ry and permanen regarding the available from Tr scomponents.cor	DRE USE. t, not iverall nt bracing russ Plate Ir n)	nstitute (wi	ww.tpinst.	org)	RELEASE AS NOTED DEVELO LEE'S'S	ON PLANS REVIEW

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	HG5	Lay-In Gable	1	1	Job Reference (optional)	166262072

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:36 ID:j9qp1kAgx6INfacONQIhp5zeBGF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

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DEVELORMENT: SERVICES LEE'S'SUMMIT'SMISSOURI 07/18/2024 8:50:10

ΤΙΟΝ

'IEW

June 14,2024



Scale = 1:47.4

Plata Officate (X, X):	[2:0 1 7 Edgo] [4:0 4 0 Edgo]	[5:0 1 7 Edgo] [15:0 2 0 Edgo] [24:0 2 8 0 2 0]	
$rate Onsets (\Lambda, T).$	[3.0-1-7,Euge], [4.0-4-0,Euge]	, [5.0-1-7, Edge], [15.0-2-9, Edge], [24.0-2-0, 0-3-0]	

Loading TCLL (roof) TCDL		(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.07 0.05	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc	;) l/defl - n/a - n/a	L/d 999 999	PLATES MT20	GRIP 197/144		
BCLL BCDL		0.0* 10.0	Rep Stress Incr Code	NO IRC2018	3/TPI2014	WB Matrix-S	0.06	Horiz(TL)	0.00	1	7 n/a	n/a	Weight: 125 II	o FT = 20%		
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.: 2x4 SP No.: 2x4 SPF No 2x4 SPF No 2x4 SPF No Structural w 6-0-0 oc pu	2 2 5.3 5.3 vood shea rlins, exc	athing directly applie	TC d or BC	DP CHORD	-30=-82/31, 1-2=-9 3-4=-64/55, 4-5=-96 3-7=-85/84, 7-8=-85 3-10=-86/85, 10-12 13-14=-86/85, 14-15 16-17=-103/92 19-30=-64/95, 28-25 26-27=-64/97, 25-26 27-23=-64/97, 21-27 2-23=-64/97, 21-27 2-25 2-2	4/55, 2 /79, 5-1 /84, 8-5 =-86/85 5=-86/8 9=-64/9 5=-64/9	2-3=-82/61, 6=-85/84, 9=-85/84, i, 12-13=-86/8 i5, 15-16=-95/ i5, 27-28=-64/ i7, 23-25=-64/ i7, 20-21=-64/	5, 185, 197, 197,	9) * 0 3 c 10) A c 11) P b 3	This truss n the botto -06-00 tall hord and a ll bearings apacity of rovide me earing plat 0, 32 b up	has be m cho by 2-0 ny oth are as 565 ps chanic ce capa	een designed fc ord in all areas v 00-00 wide will fi er members. ssumed to be S si. al connection (t able of withstan	r a live load of 2 /here a rectangle t between the be P No.2 crushing by others) of trus ding 40 lb uplift	0.0psf e ottom I ss to at joint 26 lb	
BOT CHORD	2-0-0 oc pu Rigid ceiling bracing.	rlins (6-0- g directly	-0 max.): 3-4, 5-15. applied or 10-0-0 oc	W	EBS 2	2-23=-64/97, 21-22 19-20=-64/97, 18-19 2-29=-114/114, 4-28	9=-64/9 9=-131/	/6, 17-18=-64/ /55, 6-27=-152	97, 96 2/56,	 30, 32 lb uplift at joint 17, 116 lb uplift at joint 29 uplift at joint 28, 33 lb uplift at joint 27, 42 lb uplift at joint 26, 37 lb uplift at joint 25, 42 lb uplift at joint 24. 						
REACTIONS	(size) 17=25-5-2, 18=25-5-2, 19=25-5-2, 20=25-5-2, 21=25-5-2, 22=25-5-2, 23=25-5-2, 24=25-5-2, 22=25-5-2, 26=25-5-2, 27=25-5-2, 28=25-5-2, 29=25-5-2, 30=25-5-2 Max Horiz 30=-122 (L C 8)				WEBS 2-29=-114/114, 4-26=-131/55, 0-27=-152/56, 7-26=-137/65, 8-25=-142/64, 9-24=-135/61, ' 10-23=-147/66, 12-22=-139/63, ' 13-21=-137/62, 14-20=-153/70, ' 15-19=-111/50, 16-18=-186/167 1 NOTES 1) Unbalanced roof live loads have been considered for						 21, 46 lb uplift at joint 20, 46 lb uplift at joint 22, 36 lb uplift at joint 21, 46 lb uplift at joint 12, 36 lb uplift at joint 18 lb uplift at joint 18. 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 20) Optimized sections rest discussed at the section of th					
	Max Holiz 30=122 (LC 8) Max Uplift 17=-32 (LC 9), 18=-148 (LC 13), 19=-26 (LC 8), 20=-46 (LC 9), 21=-38 (LC 8), 22=-40 (LC 8), 23=-39 (LC 9), 24=-42 (LC 8), 25=-37 (LC 9), 26=-42 (LC 8), 27=-33 (LC 9), 28=-26 (LC 12), 29=-116 ((LC 12) 30=-40 (LC 8))			3), 2) , , 3)	 this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-2-8, Interior (1) 3-2-8 to 4-0-8, Exterior(2R) 4-0-8 to 9-0-8, Interior (1) 9-0-8 to 21-6-4, Exterior(2E) 21-6-4 to 25-1-5 						or the orientation of the purlin along the top and/or bottom chord. LOAD CASE(S) Standard					
	Max Grav 1 1 2 2 2 2 2 2 2 2 2 2	7=99 (LC 9=150 (L 21=177 (L 23=193 (L 25=187 (L 27=192 (L 29=161 (L	: 19), 18=219 (LC 20 C 26), 20=193 (LC 2 C 1), 22=177 (LC 2 C 1), 24=166 (LC 2 C 25), 26=176 (LC 2 C 25), 28=173 (LC 2 C 25), 30=108 (LC 2), 25), 5), 3), 26), 3) 25), 20)	zone; cantile and right exp MWFRS for r grip DOL=1.6 Truss design only. For stu see Standard	ver left and right exp osed;C-C for memb reactions shown; Lu 50 hed for wind loads in ds exposed to wind d Industry Gable En	posed pers an imber [n the pl l (norm d Deta	; end vertical I d forces & DOL=1.60 plat lane of the tru al to the face) ils as applicat	eft te ss ble,			le l	STATE OF STATE SCO SEV	MISSOUR IT M. VIER	A A A A A A A A A A A A A A A A A A A	
FORCES	(lb) - Maxim Tension	num Com	pression/Maximum	4) 5) 6) 7)	or consult qu Provide adec All plates are Gable require	aimed building desi juate drainage to pr 1.5x4 MT20 unless es continuous botto	gner as event v s other m chor	s per ANSI/TP water ponding wise indicated d bearing.	11.		-	A A	PE-200	IBER 1018807	A A A A A A A A A A A A A A A A A A A	

7) Gable studs spaced at 0-0-0 oc.

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

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J01	Jack-Open	1	1	Job Reference (optional)	166262073

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:36 ID:6mrTrCbDvjlil7jv04wNqEzeCPI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-11-4

Scale =	1:22.2
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														_
Loading		(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	2-4	>999	240	MT20	244/190	
TCDL		10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-4	>999	180			
BCLL		0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P		- (-)					Weight: 8 lb	FT = 20%	
			•											-
				 I his truss is 	designed in accord	lance w	th the 2018	ام مر						
	2x4 SP N	0.2			Residential Code s		R502.11.1 a	na						
BOICHORD	2X4 SP N	0.2			Stondard	uaiu Aiv	131/1711.							
	0 , ,			LUAD CASE(S)	Stanuaru									
TOP CHORD	Structura	I wood she	athing directly applie	d or										
	I-II-4 00 Digid coil	; punins. ina directly	opplied or 10.0.0 oc											
BUICHURD	hracing	ing directly	applied or 10-0-0 oc											
DEACTIONS	(cizo)	2-0593	- Mochanical 4-											
REACTIONS	(5120)	Z=0-5-6, C	al											
	Max Horiz	2=55 (I C	8)											
	Max Uplift	2=-110 (I	C 8) 3=-19 (I C 12)											
	Max Grav	2=227 (LC	C 1), 3=26 (LC 1), 4=	-38										
		(LC 3)	,,, ,, - ,,,											
FORCES	(lb) - Max	imum Com	pression/Maximum											
	Tension													
TOP CHORD	1-2=0/30,	, 2-3=-35/17	7											
BOT CHORD	2-4=0/0													
NOTES														
 Wind: ASC 	CE 7-16; Vu	llt=115mph	(3-second gust)											
Vasd=91m	nph; TCDL=	6.0psf; BC	DL=6.0psf; h=35ft;											
Ke=1.00; 0	Cat. II; Exp	C; Enclose	d; MWFRS (envelop	e)										
exterior zo	ine and C-C	 Exterior(2 d vortical I 	E) zone; cantilever in	ЭΠ										
and fight e	C for mor	here and f	orces & MWERS for									000	ADD	
reactions s	shown. I num	ther $DOI = 1$	1 60 plate grip									OFI	MIG	
DOL=1.60			nee plate grip									Fre	N Scin	
2) This truss	has been d	lesianed for	r a 10.0 psf bottom								6	AN I	N SY	
chord live	load nonco	ncurrent wi	th any other live load	ds.							B	SCOT	IM. YZY	
This trus	s has been	designed for	or a live load of 20.0	psf							R	/ SEVI	ER \Y	
on the bottom chord in all areas where a rectangle											24	1	\★¥	
3-06-00 tall by 2-00-00 wide will fit between the bottom						0								
chord and	any other r	nembers.										ALL TIME	ANNA A	
4) Bearings are assumed to be: , Joint 2 SP No.2 crushing concerts of 565 psi								K 7	T DE 2001	010007 AB				
5) Refer to di	rder(s) for t	ruce to true	e connections								N	PE-2001	A 10001	
6) Provide m	echanical o	onnection (by others) of truss to	n							Y	Pe	1. SA	
bearing pla	ate capable	of withstar	nding 110 lb uplift at	ioint							3	SIONA	LENS	
2 and 19 ll	o uplift at jo	int 3.	. J									UNA A	L'A	

June 14,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J02	Jack-Open	1	1	Job Reference (optional)	166262074

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:37 ID:6mrTrCbDvjlil7jv04wNqEzeCPI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-11-4

Scale = 1:2	22.2
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			1								1		
Loading		(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15	TC (0.20	Vert(LL)	0.00	2-4	>999	240	MT20	244/190
TCDL		10.0	Lumber DOL	1.15	BC (0.04	Vert(CT)	0.00	2-4	>999	180		
BCLL		0.0*	Rep Stress Incr	NO	WB (0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 20%
				This truss is	designed in accordan	nce wi	th the 2018						
TOP CHORD	2x4 SP N	0.2		International	Residential Code sed	ctions	R502.11.1 a	nd					
BOT CHORD	2x4 SP N	0.2		R802.10.2 a	nd referenced standa	rd AN	ISI/TPI 1.						
BRACING				LOAD CASE(S)	Standard								
TOP CHORD	Structural	wood she	athing directly applie	ed or									
	1-11-4 oc	purlins.	• • • •										
BOT CHORD	Rigid ceili	ng directly	applied or 10-0-0 or										
	bracing.												
REACTIONS	(size)	2=0-5-8, 3	3= Mechanical, 4=										
	Max Hariz	Mechanic	al o										
	Max Holift	2=00 (LC	0) C 9) 2- 10 (C 12)										
	Max Grav	2=710 (L) 2=227 (L)	(10, 3), 3 = 19 (10, 12) (10, 1) $3 = 26 (10, 1) 4 = 10$	-38									
		(LC 3)	5 1), 0-20 (20 1), 1-	-00									
FORCES	(lb) - Max	imum Ćom	pression/Maximum										
	Tension												
TOP CHORD	1-2=0/30,	2-3=-35/17	7										
BOT CHORD	2-4=0/0												
NOTES													
1) Wind: ASC	CE 7-16; Vu	It=115mph	(3-second gust)										
Vasu=911	ot II: Evo	C: Enclose	d: MWERS (appelor	20									
exterior zo	ne and C-C	Exterior(2	F) zone: cantilever l	eft									
and right e	xposed ; er	nd vertical I	eft and right										
exposed;C	-C for mem	bers and fo	orces & MWFRS for									COURT	TON
reactions s	shown; Lum	ber DOL=1	1.60 plate grip									OF N	AIS C
DOL=1.60											E	750	- ON
2) This truss	has been d	esigned for	r a 10.0 psf bottom	da							B	SCOT	M NA
3) * This true	ioad noncor s bas boon	designed for	or a live load of 20.0	JS. Inef							B	SEVI	FR YY
on the bottom chord in all areas where a rectangle													
3-06-00 ta	ll by 2-00-00	0 wide will	fit between the botto	m							X	1 et al	
chord and	chord and any other members.						Server						
Bearings a	Bearings are assumed to be: , Joint 2 SP No.2 crushing						BER E						
capacity of	f 565 psi.										N	OX PE-2001	018807
 Refer to gi Browide mail 	rder(s) for the	russ to trus	s connections.								V	The last	158
bearing pl	eunanical C	of withstor	by others) or truss to	J							8	SIDE:	FNO
2 and 19 lt	o uplift at ioi	int 3.	ioning i to ib uplit at	joint								WNA	

June 14,2024

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1	A
\sim	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
1	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
i	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.tr
į	and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type		Ply	Roof - HR Lot 191				
P240542-01	J03	Half Hip Girder	2	1	Job Reference (optional)	166262075			

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:37 ID:6mrTrCbDvjlil7jv04wNqEzeCPI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





6x6 ≤





Scale = 1:32

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

	(, .), [g.	3) E= = = 3, = 3, E											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.26	Vert(LL)	0.00	` 6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.10	Vert(CT)	-0.01	6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-S							Weight: 21 lb	FT = 20%
			6)	Pofor to gird	or(c) for truce to tru								
	2v4 CD No 2		(0) (7)	Provide med	banical connection	uss com	ere) of trues	to					
	2X4 3F NU.2		()	hearing plate	canable of withst	anding 1	14 lh unlift a	t ioint					
	2x0 SFF N0.2	ent* 6-3-2v4 SPE No	3	2 and 33 lb u	plift at joint 5	anang		c joint					
	2X0 011 N0.2 LX0	ept 0-3.2x4 511 No	8)	This truss is	designed in accord	dance w	ith the 2018						
	Structurel wood ob	oothing directly opplie	-,	International	Residential Code	sections	R502.11.1 a	and					
IOP CHORL	5 Structural wood sh	eathing directly applie	a or ad	R802.10.2 ar	nd referenced star	dard AN	NSI/TPI 1.						
	2-0-0 oc purlins, e	rlin representation	does no	ot depict the	size								
BOT CHORD Rivid ceiling directly applied or 10.0.0 oc or the orientation of the purlin along the top and/or													
	bracing.			bottom chord	l								
REACTIONS	(size) 2=0-5-8,	5= Mechanical	10)	Use Simpsor	Strong-Tie THJU	126 (SGI	- & SGL SHO	DRT					
	Max Horiz 2=43 (LO	C 30)		RC 1-PLY) 0	r equivalent at 1-1	1-10 fro	m the left en	d to					
	Max Uplift 2=-114 (LC 8), 5=-33 (LC 9)	11)	CONNECT TRUS	s(es) to back face		n chora.						
	Max Grav 2=340 (I	_C 1), 5=197 (LC 1)	11)	IN/A									
FORCES	(lb) - Maximum Co	mpression/Maximum											
	Tension		12)	"NAILED" inc	dicates Girder: 3-1	0d (0.14	8" x 3") toe-	nails					
TOP CHORE	1-2=0/35, 2-3=-222	2/48, 3-4=-174/49,		per NDS guid	delines.								
	4-5=-124/141		13)	Hanger(s) or	other connection	device(s	s) shall be						
301 CHORL	2-6=-84/189, 5-6=-	66/176		provided suff	icient to support c	oncentra	ated load(s) 1	165					
WEBS	3-6=-60/77			lb down and	104 lb up at 1-11.	-4 on top	chord. The						
NOTES				design/select	tion of such conne	ction de	vice(s) is the	1					
1) Wind: AS	CE 7-16; Vult=115mp	h (3-second gust)	14)	In the I OAD	CASE(S) section	loads a	nnlied to the	face					
Vasd=91	mpn; TCDL=6.0psf; B	CDL=6.0psf; h=35ft;	(+)	of the truss a	re noted as front (F) or ha	ck (B)	1400				San	Jun
exterior 7	one and C-C Exterior	2E) zone: cantilever l	oft IO4	D CASE(S)	Standard	. , e						POF I	MISCO
and right	exposed · end vertica	Left and right	1)	Dead + Roc	of Live (balanced).	Lumber	Increase=1	15			1	950	N.OS
exposed	C-C for members and	forces & MWFRS for	• • • • • • • • • • • • • • • • • • • •	Plate Increa	ase=1.15	24	increace in	,			B	N SCOT	N CAN
reactions	shown; Lumber DOL:	=1.60 plate grip		Uniform Loa	ads (lb/ft)						R	S SCOI	
DOL=1.6	0			Vert: 1-3	=-70, 3-4=-70, 2-5	=-20					the.	SEV.	
2) Provide a	dequate drainage to p	prevent water ponding].	Concentrate	ed Loads (lb)					- N	-10		71 30
This trus	s has been designed f	or a 10.0 psf bottom		Vert: 3=3	0 (B), 6=-2 (B), 8=	=-2 (B)						a te	Nen North
chord live	e load nonconcurrent v	vith any other live load	ds.							-	4	NUM	BER
4) * This tru	ss has been designed	for a live load of 20.0)psf								N2	PE-2001	018807
on the bo	ottom chord in all areas	s where a rectangle									N	The second second	A A
chord an	aii by ∠-00-00 wide wi d any other members		/11								٩	NºSer-	O'A
5) Rearings	are assumed to be li	nint 2 SPF No 2 crush	nina									ONA	LEFA
capacity	of 425 psi.											an	TITE
												June	e 14.2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J04	Half Hip	1	1	Job Reference (optional)	166262076

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:37 ID:juQculcza1K?qo_?lfQY6SzeCMh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:33.3

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-P	0.27 0.13 0.06	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.00	(loc) 2-5 2-5 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 24 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x6 SPF No.2 2x4 SPF No.3 2x4 SP No.2 Structural wood shea 5-6-0 oc purlins, ext 2-0-0 oc purlins: 3-4 Rigid ceiling directly bracing.	athing directly applie cept end verticals, a applied or 10-0-0 or	5) 6) ed or 7) nd 8) c 9)	Bearings are capacity of 4 565 psi. Bearing at jo using ANSI/ designer sho Provide mec bearing plate Provide mec bearing plate joint 2 and 3 This truss is	assumed to be 25 psi, Joint 5 S int(s) 5 consider FPI 1 angle to gr uld verify capac hanical connect a tjoint(s) 5. hanical connect capable of with 8 lb uplift at joint designed in acc	: Joint 2 SF SP No.2 cru rs parallel t ain formula ity of beari ion (by othe ion (by othe standing 1 : 5. ordance wi	PF No.2 crus shing capac o grain value n. Building ng surface. ers) of truss ars) of truss 36 lb uplift a th the 2018	hing ity of co					
FORCES	(size) 2=0-5-8, 5 Max Horiz 2=73 (LC Max Uplift 2=-136 (L' Max Grav 2=358 (LC (lb) - Maximum Com	>=U-1-8 9) C 8), 5=-38 (LC 8) C 1), 5=205 (LC 1) pression/Maximum	10	International R802.10.2 a) Graphical pu or the orienta bottom chore	Residential Coo nd referenced st rlin representati ation of the purlin t.	te sections andard AN on does no n along the	R502.11.1 a SI/TPI 1. t depict the s top and/or	and size					
TOP CHORD BOT CHORD WEBS	Tension 1-2=0/35, 2-3=-168/ 4-5=-44/53 2-5=-162/126 3-5=-157/203	122, 3-4=-26/28,	LC	DAD CASE(S)	Standard								
NOTES 1) Wind: ASt Vasd=91r Ke=1.00; exterior zo Interior (1 zone; can and right	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2)) 3-7-0 to 3-11-4, Exter tilever left and right exp exposed:C-C for memb	be) 2-8 left									STATE OF M	MISSOLURI MISSOLURI ER	

- grip DOL=1.60 Provide adequate drainage to prevent water ponding. 2)
- 3) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 4)

MWFRS for reactions shown; Lumber DOL=1.60 plate

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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June 14,2024

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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/TPH1 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.sbcscomponents.com)

Job	Truss	Truss Type Q		Ply	Roof - HR Lot 191			
P240542-01	J05	Monopitch	4	1	Job Reference (optional)	166262077		

5-6-0

-1-5-0

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:37 ID:b6cGb2F9epYGEAiEXMtWu7zeCN9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:29.8

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-P	0.55 0.12 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.00	(loc) 2-4 2-4 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 24 lb	GRIP 197/144 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: AS(Vasd=91n Ke=1.00; exterior 2(1)	2x4 SP No.2 2x6 SPF No.2 2x4 SPF No.3 2x4 SPF No.3 2x4 SP No.2 Structural wood she 5-6-0 oc purlins, ex Rigid ceiling directly bracing. (size) 2=0-5-8,4 Max Uplift 2=-133 (L Max Uplift 2=-133 (L Max Grav 2=358 (LC (lb) - Maximum Com Tension 1-2=0/35, 2-3=-114// 2-4=-35/38 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 3-7-0 to 5-2-8 zone: c	code athing directly applied cept end verticals. applied or 10-0-0 oc 4=0-1-8 9) C 8), 4=-47 (LC 12) C 1), 4=205 (LC 1) pression/Maximum 69, 3-4=-155/226 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop: E) -15-0 to 3-7-0; antilever left and rind	6) 7) d or 8) LO	Bearing at jo using ANSI/T designer sho Provide mecl bearing plate joint 2 and 47 This truss is International R802.10.2 ar	Int(s) 4 considers p PI 1 angle to grain uld verify capacity nanical connection at joint(s) 4. nanical connection capable of withsta 7 Ib uplift at joint 4. designed in accord Residential Code s nd referenced stand Standard	parallel t formula of beari (by oth (by oth unding 1 lance w sections dard AN	o grain value a. Building ng surface. ers) of truss 33 lb uplift a ith the 2018 R502.11.1 a ISI/TPI 1.	e to to t and				vveignt: 24 lb	F1 = 20%	
 exposed; members Lumber D 2) This truss chord live 3) * This truss on the bot 3-06-00 ta chord and 4) Bearings a 	end vertical left and rig and forces & MWFRS OL=1.60 plate grip DO has been designed fo load nonconcurrent wi s has been designed f tom chord in all areas Il by 2-00-00 wide will any other members. are assumed to be: Joi	ht exposed;C-C for for reactions shown; L=1.60 r a 10.0 psf bottom th any other live load or a live load of 20.0p where a rectangle fit between the bottor nt 2 SPF No.2 crushi	ls. osf m								S.	State OF P State OF P Scott Sevi Sevi Num PE-2001	T M. ER BER D18807	

 Bearings are assumed to be: Joint 2 SPF No.2 crushing capacity of 425 psi, Joint 4 SP No.2 crushing capacity of 565 psi.

June 14,2024

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Job	Truss	Truss Type		Ply	Roof - HR Lot 191				
P240542-01	J06	Half Hip	1	1	Job Reference (optional)	166262078			

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:37 ID:AGPiPC0cLf16q6AOM9Wp4vzeCNT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





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Scale =	1:30.9
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Plate Offsets (X, Y): [2:0-5-6,0-0-1], [3:0-2-0,0-2-13], [4:Edge,0-1-8]

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Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.52	Vert(LL)	-0.02	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.18	Vert(CT)	-0.04	2-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-R							Weight: 26 lb	FT = 20%
LUMBER			6)	Provide mec	hanical connectio	on (by oth	ers) of truss	to					
TOP CHORD	2x4 SP No.2			bearing plate	e at joint(s) 5.								
BOT CHORD	2x6 SPF No.2		7)	Provide mec	hanical connection	on (by oth	ers) of truss	to					
WEBS	2x4 SPF No.3			bearing plate	capable of withs	standing 1	41 lb uplift a	t					
BRACING				joint 2 and 5	5 lb uplift at joint	5.							
TOP CHORD	Structural wood she	athing directly applie	ed or ⁸⁾	I his truss is	designed in acco	ordance w	ith the 2018	I					
	6-0-0 oc purlins, ex	cept end verticals, a	nd	R802 10 2 a	Residential Code	e sections	SR502.11.1 8	and					
	2-0-0 oc purlins (6-0	-0 max.): 3-4.	9)	Graphical nu	rlin representatio	n does no	of denict the	size					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	c 0)	or the orienta	ation of the purlin	along the	top and/or	0120					
REACTIONS	(size) 2=0-5-8, 5	5=0-1-8		bottom chord	1.								
	Max Horiz 2=104 (LC	C 9)	LC	DAD CASE(S)	Standard								
	Max Uplift 2=-141 (L	C 8), 5=-55 (LC 8)											
	Max Grav 2=406 (L0	C 1), 5=260 (LC 1)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/35, 2-3=-168/ 4-5=-172/213	65, 3-4=-107/114,											
BOT CHORD	2-5=-117/112												
NOTES													
 Wind: AS: Vasd=91r Ke=1.00; exterior zr Interior (1 zone; can and right MWFRS f grip DOL= Provide a This truss chord live * This trus on the box 3-06-00 tt 	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 3-7-0 to 5-11-4, Exter titlever left and right exp exposed;C-C for memt or reactions shown; Lu =1.60 dequate drainage to pr has been designed fo load nonconcurrent wi ss has been designed fi ttom chord in all areas all by 2-00-00 wide will	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) -1-5-0 to 3-7-0, ior(2E) 5-11-4 to 6- bosed ; end vertical bers and forces & mber DOL=1.60 pla event water ponding r a 10.0 psf bottom th any other live loa or a live load of 20.0; where a rectangle fit between the bottom	be) 4-4 left dte J. ds. opsf om									State of J State Scot Sev Num PE-2001	MISSOLA T.M. ER Service 018807
5) All bearing	gs are assumed to be \$	SPF No.2 crushing										ONA	LEY

5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.



June 14,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191			
P240542-01	J07	Half Hip	1	1	Job Reference (optional)	166262079		

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:37 ID:T4HVkzhgiNdx5ycCH_XUUCzeCNu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-6-0



Page: 1



Scale = 1	1:24
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Plate Offsets (X, Y): [2:0-5-6,Edge]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-P	0.28 0.20 0.10	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.00	(loc) 2-5 2-5 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 28 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x6 SPF No.2 2x4 SPF No.3 Structural wood shea 6-0-0 oc purlins, exx 2-0-0 oc purlins; 3-4 Rigid ceiling directly bracing. (size) 2=0-5-8, 5 Max Horiz 2=73 (LC Max Uplift 2=-145 (LL Max Grav 2=406 (LC (lb), Maximum Com	athing directly applie cept end verticals, a applied or 10-0-0 or 5=0-1-8 9) C 1), 5=-51 (LC 8) C 1), 5=-260 (LC 1) pression/Maximum	5) 6) 7) ad or 8) 5 5 9)	All bearings capacity of 4 Provide mec bearing plate Provide mec bearing plate joint 2 and 5 This truss is International R802.10.2 ar Graphical pu or the orienta bottom chore	are assumed to be 25 psi. hanical connection a t joint(s) 5. hanical connection capable of withsta 1 lb uplift at joint 5. designed in accorc Residential Code s nd referenced stan rlin representation ation of the purlin a J. Standard	SPF No (by oth (by oth anding 1 dance w sections dard AN does no long the	b.2 crushing ers) of truss t ers) of truss t 45 lb uplift at th the 2018 R502.11.1 a (SI/TPI 1. ot depict the s top and/or	to to ind size					
TOP CHORD BOT CHORD	(i) Maximum com Tension 1-2=0/35, 2-3=-281/2 4-5=-85/97 2-5=-286/219 3-5=-247/302	245, 3-4=-26/28,											
 WEBS 3-5=-247/302 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 3-11-4, Exterior(2E) 3-11-4 to 6-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) Provide adequate drainage to prevent water ponding. 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 			be) I-4 left I. J.									STATE OF I SCOT SEVI	MISSOLP T.M. EER

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J08	Jack-Closed	3	1	Job Reference (optional)	166262080

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:37 ID:SN?E2rd1k8D2iqcWKHUdbMzeCQY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:26

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.25	Vert(LL)	-0.01	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	2-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%
LUMBER			This truss is	designed in accord	ance w	ith the 2018						
TOP CHORD	2x4 SP No.2		International	Residential Code s	sections	R502.11.1 a	and					
BOT CHORD	2x4 SP No.2		R802.10.2 a	nd referenced stand	dard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.3		LOAD CASE(S)	Standard								
BRACING												
TOP CHORD	Structural wood she	athing directly applie	ed or									
	3-6-0 oc purlins, exe	cept end verticals.										
BOI CHORD	bracing.	applied or 10-0-0 oc	;									
REACTIONS	(size) 2=0-5-8, 4	4= Mechanical										
	Max Horiz 2=65 (LC	9)										
	Max Uplift 2=-124 (L	C 8), 4=-23 (LC 12)										
		5 1), 4=110 (LC 1)										
FORCES	(Ib) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-2=0/30, 2-3=-70/48	8, 3-4=-95/122										
BOT CHORD	2-4=-24/26											
NOTES												
1) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)										
Vasd=91m	ph; TCDL=6.0psf; BC	DL=6.0psf; h=35ft;										
Ke=1.00; (Cat. II; Exp C; Enclose	d; MWFRS (envelop	e)									
exterior 20	vposod : ond vortical	e) zone; cantilever i	en									
exposed C	C-C for members and for	orces & MWFRS for										
reactions s	shown: Lumber DOL=1	1.60 plate grip									2000	alle
DOL=1.60	,										A OF M	MISCO
2) This truss	has been designed for	r a 10.0 psf bottom								1	750	N.OS
chord live	load nonconcurrent wi	th any other live load	ds.							8	SCOT	M NO
 This trus 	s has been designed for	or a live load of 20.0	psf							B	SEVI	
3-06-00 ta	lom chord in all areas	where a reclangle	m							R		
chord and	any other members	III between the botto	"							8 1	6	100
 Bearings a 	are assumed to be: Joi	nt 2 SP No.2 crushir	ng							8	Katk	Anton
capacity of	f 565 psi.		-							1	HCOMOR	Direction of the second
5) Refer to gi	rder(s) for truss to trus	s connections.								N	OX PE-2001	018807
6) Provide m	echanical connection ((by others) of truss to)							V	The last	158
bearing pla	ate capable of withstar	nding 124 lb uplift at									Stores A	FNO
joint 2 and	∠3 ib uplift at joint 4.										W VNA	L

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June 14,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J09	Jack-Closed	1	1	Job Reference (optional)	166262081

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:37 ID:6ey1upQVsiEtGBY57CrlStzeGef-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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1-5-15



-1-5-0

1-5-0

1.5x4 🛚



3-6-0

3-6-0

Scale = 1:26

Loading	(psf)	Spacing	2-0-0	CSI	0.25	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
	25.0	Plate Grip DOL	1.10		0.25	Vert(LL)	-0.01	2-4	>999	240	WI120	197/144
PCU	10.0	Lumber DOL Bon Stroop Inor	1.15	BC	0.12		-0.01	2-4	>999	180		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.00		0.00	4	n/a	n/a	Weight: 14 lb	FT = 20%
LUMBER			7) This truss is	s designed in acc	ordance w	ith the 2018						
TOP CHORD	2x4 SP No.2		Internationa	al Residential Co	de sections	R502.11.1	and					
BOT CHORD	2x4 SP No.2		R802.10.2	and referenced s	tandard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.3		LOAD CASE(S) Standard								
BRACING												
TOP CHORD	Structural wood sh	eathing directly appli	ed or									
	3-6-0 oc purlins, e	xcept end verticals.										
BOT CHORD	Rigid ceiling directl bracing.	y applied or 10-0-0 o	0C									
REACTIONS	(size) 2=0-5-8,	4= Mechanical										
	Max Horiz 2=65 (LC	C 9)										
	Max Uplift 2=-124 (LC 8), 4=-23 (LC 12))									
	Max Grav 2=286 (I	_C 1), 4=110 (LC 1)										
FORCES	(lb) - Maximum Co Tension	mpression/Maximum										
TOP CHORD	1-2=0/30, 2-3=-70/	48, 3-4=-95/122										
BOT CHORD	2-4=-24/26											
NOTES												
1) Wind: AS	CE 7-16; Vult=115mp	h (3-second gust)										
Vasd=91r	nph; TCDL=6.0psf; B	CDL=6.0psf; h=35ft;										
Ke=1.00;	Cat. II; Exp C; Enclos	ed; MWFRS (envelo	pe)									
exterior zo	one and C-C Exterior	2E) Zone; cantilever	leπ									
and right o	C for members and	forces & MWERS fo	r									
reactions	shown. Lumber DOI :	=1 60 plate grip	I								000	TOP
DOL=1.60)	- 1.00 plate grip									OF I	MISSIN
2) This truss	has been designed f	or a 10.0 psf bottom									4 TE	-050,0
chord live	load nonconcurrent v	vith any other live loa	ads.							A	NY and	New Y
3) * This trus	ss has been designed	for a live load of 20.	0psf							H	S/ SCOT	I M. YOY
on the bot	ttom chord in all areas	s where a rectangle								1	SEVI	LER \ X
3-06-00 ta	all by 2-00-00 wide wi	I fit between the bott	om							Ø.*		1 * 1
chord and	any other members.									8	\$ 115	.1 +1
4) Bearings	are assumed to be: Jo	DINT 2 SP NO.2 Crush	ing							2=	Colom	Some a
5) Refer to a	irder(s) for truss to tru	iss connections								177	PE-2001	018807
6) Provide m	echanical connection	(by others) of truss	to							N	The second	12A

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 2 and 23 lb uplift at joint 4.

June 14,2024

SIONAL E

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 touls be personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 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.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J10	Half Hip Girder	1	1	Job Reference (optional)	166262082

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:37 ID:2KNyZR?URf7fwbUUeIYuLuzeCQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Special



Scale = 1:31

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-P	0.25 0.13 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 2-5 2-5 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 15 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SPF No.3 Structural wood shea 3-6-0 oc purlins, exc	athing directly applied cept end verticals, and	6) 7) or ⁸⁾	Bearing at jo using ANSI/I designer sho Provide mec bearing plate Provide mec bearing plate	int(s) 5 considers PI 1 angle to gra uld verify capacit hanical connection at joint(s) 5. hanical connection capable of withs bit at joint 2.	parallel t in formula y of beari on (by oth tanding 8	o grain value a. Building ng surface. ers) of truss ers) of truss Ib uplift at jo	to to vint 5					
BOT CHORD	2-0-0 oc purlins: 3-4. Rigid ceiling directly bracing. (size) 2=0-5-8, 5 Max Horiz 2=43 (LC Max Uplift 2=-111 (LI Max Grav 2=274 (LC	applied or 6-0-0 oc 5=0-1-8 9) C 8), 5=-8 (LC 9) C 1), 5=99 (LC 21)	9) 10 11	and TTT b u This truss is International R802.10.2 at) Graphical pu or the orienta bottom chorc) Hanger(s) or	designed in acco Residential Code nd referenced sta rlin representatio ttion of the purlin I. other connection	rdance wi e sections Indard AN n does no along the device(s	th the 2018 R502.11.1 a ISI/TPI 1. It depict the top and/or	and size					
FORCES	(lb) - Maximum Com Tension	pression/Maximum		provided suff lb down and	icient to support 104 lb up at 1-1	concentra 1-4 on top	ted load(s) for the chord, and	166 14 lb					
TOP CHORD BOT CHORD WEBS NOTES	1-2=0/30, 2-3=-126/5 4-5=-50/60 2-5=-57/140 3-5=-138/63	59, 3-4=-14/15,	12	down at 1-1 of such conn others.) In the LOAD of the truss a	1-4 on bottom ch ection device(s) i CASE(S) section re noted as front	ord. The s the resp , loads ap (F) or ba	design/select consibility of oplied to the ck (B).	tion face					

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding. 3) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 crushing 5) capacity of 565 psi, Joint 5 SPF No.3 crushing capacity of 425 psi.

- D CASE(S) Standard 1)
 - Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft) Vert: 1-3=-70, 3-4=-70, 2-5=-20
 - Concentrated Loads (lb)

Vert: 3=30 (F), 6=-2 (F)



DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 07/18/2024 8:50:11

TION

Page: 1

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

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J11	Jack-Open	1	1	Job Reference (optional)	166262083

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:37 ID:BOeiL02QvhNHe5qbL2AgSRzeCTt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-11-4

Scale =	1:22.2
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Loading		(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15	тс	0.20	Vert(LL)	0.00	2-4	>999	240	MT20	244/190
TCDL		10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-4	>999	180		
BCLL		0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P		(01)					Weight: 8 lb	FT = 20%
				÷								5	
LUMBER				This truss is	designed in accord	lance w	ith the 2018						
TOP CHORD	2x4 SP N	0.2		International	Residential Code	sections	R502.11.1 a	nd					
BOT CHORD	2x4 SP N	0.2		R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.						
BRACING				LOAD CASE(S)	Standard								
TOP CHORD	Structura	I wood she	athing directly applie	d or									
	1-11-4 oc	purlins.											
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 oc	;									
	bracing.												
REACTIONS	(size)	2=0-5-8, 3	3= Mechanical, 4=										
		Mechanic	al										
	Max Horiz	2=55 (LC	8)										
		2=-110 (L	(L, 0, 0), $3 = -19 (L, 0, 12)$	20									
	wax Grav	Z=ZZT (LC	5 T), 3=26 (LC T), 4=	:38									
	(lb) May	(LC 3)											
FURCES	(ID) - IVIAX		pression/waximum										
TOP CHORD	1-2=0/30	2-3=-35/1	7										
BOT CHORD	2-4=0/0	20 00/1											
NOTES	2.0,0												
1) Wind ASC		lt_115mnh	(3-second quet)										
Vasd=91m	D = 7 = 10, V = 10	6 0nsf ⁻ BC	DI = 6 Opsf h = 35 ft										
Ke=1.00: (Cat. II: Exp	C: Enclose	d: MWFRS (envelop	e)									
exterior zo	one and C-C	Exterior(2	E) zone; cantilever le	eft									
and right e	exposed ; er	nd vertical I	eft and right										
exposed;C	C-C for mem	bers and f	orces & MWFRS for									COOL	ADDA
reactions s	shown; Lurr	ber DOL=1	1.60 plate grip									A OF I	MISC
DOL=1.60											1	750	W.OS
2) This truss	has been d	esigned for	r a 10.0 psf bottom								B	N SCOT	M NA
chord live	load nonco	ncurrent wi	th any other live load	is.							R		
3) * This trus	s has been	designed f	or a live load of 20.0	pst							U.	SEVI	
		n all areas	where a rectangle	~							100		0
chord and	any other r	o wide will	in between the bollo									hatts.	(Jan 1)
4) Rearings	are assume	d to here in	nint 2 SP No 2 crush	ina							The	NUM	BERNYAN
capacity of	f 565 psi.	a to bo. , ot									87	PE-2001	018807
 5) Refer to ai 	irder(s) for t	russ to trus	s connections.								N	The sould	IZ B
6) Provide m	echanical c	onnection ((by others) of truss to)							Y	1ºSa	JON B
bearing pla	ate capable	of withstar	nding 110 lb uplift at	joint								UN ONA	LENA
2 and 19 II	b uplift at jo	int 3.										QUA	-

June 14,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J13	Half Hip Girder	3	1	Job Reference (optional)	166262084

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:38 ID:PvRIR2sPBiS6DyMeMF_CTizeDA0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



NAILED

NAILED 3-11-4



Scale = 1:34.1

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-P	0.24 0.18 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.00	(loc) 5-6 5-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 23 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SPF No.3 *Exce Structural wood shea	pt* 6-2:2x4 SP No.2 athing directly applied	6) 7) 8) 1 or	Bearings are capacity of 56 Refer to girde Provide mech bearing plate 5 and 121 lb	assumed to be: Jo 65 psi. er(s) for truss to tru nanical connection capable of withsta uplift at joint 6.	int 6 SF ss conr (by oth nding 5	^o No.2 crushi lections. ers) of truss t 1 lb uplift at j	ing to joint					
BOT CHORD REACTIONS	3-11-4 oc purlins, ex 2-0-0 oc purlins: 3-4. Rigid ceiling directly bracing. (size) 5= Mecha Max Horiz 6=92 (LC Max Uplift 5=-51 (LC Max Grav 5=136 (LC	xcept end verticals, a applied or 10-0-0 oc nical, 6=0-5-8 9) 9), 6=-121 (LC 8) 5 1), 6=293 (LC 1)	nd ⁹⁾ 10 11	 Inis truss is d International R802.10.2 ar Graphical pui or the orienta bottom chord "NAILED" inco per NDS guid 	Designed in accord Residential Code s ad referenced stand rlin representation titon of the purlin al licates Girder: 3-10 delines. CASE(S) section	ance was sections dard AN does no ong the od (0.14	R502.11.1 a R502.11.1 a ISI/TPI 1. of depict the s top and/or 8" x 3") toe-	nd size nails					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	12	of the truss a	re noted as front (F) or ba	ck (B).	lace					
TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance	1-2=0/35, 2-3=-32/12 4-5=-65/80, 2-6=-22(5-6=-131/81 3-5=-73/151, 3-6=-73 ed roof live loads have	22, 3-4=-40/46, 0/319 3/16 been considered for	1)	Dead + Roc Plate Increa Uniform Loa Vert: 1-2= Concentrate Vert: 7=8	bit Live (balanced): lise=1.15 ads (lb/ft) =-70, 2-3=-70, 3-4= ed Loads (lb) (B)	Lumber 70, 5-6	Increase=1. S=-20	15,					

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical 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. This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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Page: 1

TION DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 07/18/2024 8:50:11

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J14	Jack-Open	25	1	Job Reference (optional)	166262085

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:38 ID:08UIE?szVW7IOM5uY1Wz8QzeDBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









Loading TCLL (roof)		(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.48	DEFL Vert(LL)	in 0.02	(loc) 4-5	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL		10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.02	4-5	>999	180		
BCLL		0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.06	3	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI201	14 Matrix-R							Weight: 16 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP N 2x4 SP N 2x4 SPF Structura 3-11-4 of	lo.2 lo.2 No.3 I wood she	athing directly applic	6) Provid bearin 5 and 7) This tr Interna ed or R802. LOAD CA:	e mechanical connectio g plate capable of withs 66 lb uplift at joint 3. uss is designed in acco ational Residential Code 10.2 and referenced sta SE(S) Standard	n (by oth tanding 9 rdance w e sections ndard AN	ers) of truss 0 lb uplift at j ith the 2018 R502.11.1 a ISI/TPI 1.	to joint and					
BOT CHORD	Rigid cei bracing.	ing directly	applied or 10-0-0 of	C	.,								
REACTIONS	(size) Max Horiz Max Uplift Max Grav	3= Mecha 5=0-5-8 5=82 (LC 3=-66 (LC 3=107 (LC (LC 1)	nical, 4= Mechanica 9) : 12), 5=-90 (LC 8) C 1), 4=70 (LC 3), 5=	al, =300									
FORCES	(lb) - Max Tension	kimum Com	pression/Maximum										
TOP CHORD	2-5=-263	/299, 1-2=0	/35, 2-3=-67/31										
BOT CHORD	4-5=0/0												
NOTES													
 Wind: ASt Vasd=91r Ke=1.00; exterior zo and right exposed;0 	CE 7-16; Vu nph; TCDL= Cat. II; Exp one and C-0 exposed ; e C-C for men	IIt=115mph ₅6.0psf; BC C; Enclose C Exterior(2 nd vertical I nbers and fe	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever l eft and right prces & MWFRS for	be) left								So OF M	

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.
 This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.



June 14,2024

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RELEASE IOR ON FLANS REVIEW AS NOTED ON FLANS REVIEW DEVELOPMENT: SERVICES LEE'S'SUMMIT: MISSOURI 07/18/2024 8:50:11

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J15	Half Hip Girder	2	1	Job Reference (optional)	166262086

-1-5-0

1-5-0

2-0-8

2-0-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:38 ID:4I6ZUiA1?jQpVvEEz8BR_izeDQO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

2-11-4

0-10-12

NAILED

2-11-4

Page: 1





Scale = 1:33.2

Plate Offsets (X, Y): [3:0-3-0,0-2-8]

Loading (psf) TCLL (roof) 25.0 TCDL 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.24 0.08	DEFL Vert(LL) Vert(CT)	in 0.00 0.00	(loc) 5-6 5-6	l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 197/144
BCLL 0.0*	Rep Stress Incr	NO	1	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code	IRC2018/TPI2	2014	Matrix-S							Weight: 17 lb	FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 *Exc BRACING TOP CHORD Structural wood she 2-11-4 oc purlins; 4 2-0-0 oc purlins; 3-4 BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 5= Mecha Max Horiz 6=101 (L Max Uplift 5=-54 (LC (lb) - Maximum Con Tension TOP CHORD 1-2=0/35, 2-3=-58/5 4-5=-58/44, 2-6=-23 BOT CHORD 5-6=-102/82 WEBS 3-5=-121/186 NOTES 1) Wind: ASCE 7-16; Vult=115mpt Vasd=91mph; TCDL=6.0psf; BC Ke=1.00; Cat. II; Exp C; Enclose exterior zone and C-C Exterior(2 and right exposed; end vertical exposed; C-C for members and t reactions shown; Lumber DOL= DOL=1.60 2) Provide adequate drainage to p 3) This truss has been designed for chord live load nonconcurrent w 4) * This truss has been designed for chord live load nonconcurrent w 4) * This truss has been designed for chord live load nonconcurrent w 4) * This truss has been designed for chord live load nonconcurrent w 4) * This truss has been designed for chord live load nonconcurrent w 5) Bearings are assumed to be: Jo capacity of 565 psi.	ept* 6-2:2x4 SP No.2 eathing directly applied except end verticals, a papplied or 10-0-0 oc anical, 6=0-5-8 C 9) C 9), 6=-114 (LC 8) C 1), 6=269 (LC 1) apression/Maximum 2, 3-4=-43/47, 7/288 a (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope Left and right forces & MWFRS for 1.60 plate grip revent water ponding. r a 10.0 psf bottom ith any other live load for a live load of 20.0p where a rectangle fit between the bottor int 6 SP No.2 crushing	6) Refe 7) Prov bear 5 an 8) This d or Inter 8) Grap or th bott 10) "NAI 9) Grap or th 10) "NAI 10) "NAI	r to girder(vide mecha inig plate ca d 114 lb up truss is de rnational Re 2.10.2 and phical purlin the orientatic om chord. ILED" indic ger(s) or of vided suffici ger(s) or of vided suffici vided suffici vi	(s) for truss to true inical connection apable of withstau plift at joint 6. signed in accorda esidential Code s referenced stand n representation of on of the purlin all eastes Girder: 3-10 lines. ther connection di ient to support con n of such connec f others. ASE(S) section, Ik e noted as front (F Standard Live (balanced): L e=1.15 s (Ib/ft) 70, 2-3=-70, 3-4= Loads (Ib) 0 (B), 7=8 (B)	ss conrr (by oth) nding 5 ance wi ections lard AN Joes nc ong the d (0.14 evice(s ncentra tion de') or bai umber -70, 5-6	ections. ers) of truss to 4 lb uplift at jo th the 2018 R502.11.1 an isl/TPI 1. ti depict the si top and/or 8" x 3") toe-n) shall be ted load(s) . vice(s) is the oplied to the fa ck (B). Increase=1.1	opint nd ize aalls The ace 5,		ŝ		A STATE OF M STATE OF M STATE OF M SCOT SEV SCOT SCOT SEV SCOT SEV SCOT SEV SCOT SEV SCOT SEV SCOT SEV SCOT SEV SCOT SEV SCOT SCOT SEV SCOT SCOT SCOT SCOT SCOT SCOT SCOT SCOT	MISSOLUTION T.M. ER DI8807 L.ENGINGA L.ENGINA L.ENGINGA L.ENGINA L

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 ocllapse 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/TP11 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.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J16	Jack-Open	4	1	Job Reference (optional)	166262087

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:38 ID:GPHjoSJwP5pFJbaL6yt0x1zeDQD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





2-11-4

Sca	le =	1:28	3.1
Sca	le =	1:28	3.1

Loading TCLL (roof)		(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.36	DEFL Vert(LL)	in 0.01	(loc) 4-5	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.22	Vert(CT)	0.01	4-5	>999	180		
BCLL		0.0*	Rep Stress Incr	NO		WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL		10.0	Code	IRC2018	3/TPI2014	Matrix-R							Weight: 13 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP N 2x4 SP N 2x4 SPF Structura 2-11-4 oc	o.2 o.2 No.3 I wood she	athing directly applie	6) 7) ed or LC	Provide mec bearing plate 5 and 49 lb u This truss is International R802.10.2 a DAD CASE(S)	hanical connection capable of withsta uplift at joint 3. designed in accorr Residential Code nd referenced stan Standard	h (by oth anding 8 dance w sections idard AN	ers) of truss 36 lb uplift at j ith the 2018 \$ R502.11.1 a NSI/TPI 1.	to joint and					
BOT CHORD	Rigid ceil bracing.	ing directly	applied or 10-0-0 or	C										
REACTIONS	(size) Max Horiz Max Uplift Max Grav	3= Mecha 5=0-5-8 5=72 (LC 3=-49 (LC 3=68 (LC (LC 1)	nical, 4= Mechanica 9) : 12), 5=-86 (LC 8) 1), 4=50 (LC 3), 5=2	al, 263										
FORCES	(lb) - Max Tension	timum Com	pression/Maximum											
TOP CHORD BOT CHORD	2-5=-232 4-5=0/0	/264, 1-2=0	/35, 2-3=-48/25											
NOTES														
 Wind: AS⁴ Vasd=91r Ke=1.00; exterior zo and right exposed; reactions 	CE 7-16; Vu mph; TCDL= Cat. II; Exp one and C-C exposed ; e C-C for men shown; Lun	It=115mph 6.0psf; BC C; Enclose C Exterior(2 nd vertical I nbers and fe nber DOL=	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I eft and right orces & MWFRS for I.60 plate grip	be) left									TE OF M	MISSOL

DOL=1.60

2) This truss has been designed for a 10.0 psf bottom

- chord live load nonconcurrent with any other live loads.
 This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.



June 14,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J18	Half Hip Girder	2	1	Job Reference (optional)	166262088

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:38 ID:B20vsS3NPLsGVEHwG3RjVOzeDLN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

i ug

 -1-5-0
 2-0-0
 2-11-4

 1-5-0
 2-0-0
 0-11-4





NAILED



Scale = 1:35.7

Plate Offsets (X, Y): [3:0-3-0,0-2-8]

Loading TCLL (roof) TCDL BCLL BCDL	(i 2 1 1	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-P	0.24 0.16 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.01 -0.01 -0.01	(loc) 6-7 6-7 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91m Ke=1.00; (exterior zo and right e exposed;C Vasd=91m Ke=1.00; d exterior zo and right e exposed;C O Provide ad 4) This truss chord live	2x4 SP No.2 2x4 SP No.2 2x4 SPF No.3 Structural woo 2-11-4 oc purli Rigid ceiling d bracing. (size) 4= (COMAX Horiz 7=6 Max Horiz 7=6 Max Uplift 4=- (LC Max Grav 4=2 (LC (Ib) - Maximur Tension 1-2=0/35, 2-3: 6-7=-132/36, 3 3-6=-49/68, 2- cod roof live loads b. CE 7-16; Vult=11 pph; TCDL=6.0p Cat. II; Exp C; E one and C-C Ext exposed ; end ve S-C for members shown; Lumber Hequate drainag has been design load nonconcurr	3 *Excep od shea lins, ex ns: 3-4. directly 3 0-5-8 64 (LC S -14 (LC C 8) 31 (LC C 1) m Comp =-35/16 5-6=0/0 :-6=-45/ s have I 15mph osf; BCE inclosec terior(2E ertical le s and fo DOL=1 ge to pre ined for rrent wit	ot* 7-2:2x4 SP No.2 athing directly applied (ccept end verticals, a applied or 10-0-0 oc nical, 5= Mechanical, 9) 8), 5=-26 (LC 9), 7=- 1), 5=66 (LC 3), 7=26 pression/Maximum 5, 3-4=0/0, 2-7=-220/ 166 been considered for (3-second gust) DL=6.0psf; h=35ft; 1; MVFRS (envelope E) zone; cantilever le ft and right proces & MWFRS for .60 plate grip event water ponding. a 10.0 psf bottom h any other live loads	5) i or 7) 8) 9) 97 10 51 11 12 216 LC 1) ft s.	* This truss h on the botton 3-06-00 tall b chord and an Bearings are capacity of 5/ Refer to girdd Provide mecl bearing plate 4, 97 lb uplift This truss is of International R802.10.2 ar) Graphical pu or the orienta bottom chord) "NAILED" inc per NDS guid () In the LOAD of the truss a DAD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-2: Concentrate Vert: 6=8	as been designed in chord in all areas y 2-00-00 wide will y other members. assumed to be:, J 65 psi. arc(s) for truss to tru- nanical connection capable of withsta at joint 7 and 26 lb designed in accord Residential Code s and referenced stand reforenced stand reforenced stand reforesentation ticon of the purlin al. CASE(S) section, I re noted as front (f Standard of Live (balanced): ise=1.15 ads (lb/ft) =-70, 2-3=-70, 3-4= ed Loads (lb) (F)	for a liv where fit betv loint 7 \$ ss conr (by oth inding 1 o uplift a ance w sections dard AN does no long the od (0.14 loads a -) or ba Lumber	e load of 20.1 a rectangle veen the bott P No.2 crusi ections. ers) of truss (4 lb uplift at j t joint 5. th the 2018 R502.11.1 a SI/TPI 1. th depict the s top and/or 8" x 3") toe-1 oplied to the s ck (B). Increase=1. 7=-20	Opsf om hing to joint and size nails face 15,				TATE OF M SUTE SUTE SUTE SUTE SUTE SUTE SUTE SUTE	MISSOLUTION MISSOLUTION MER LENGTONICO LENGTONICO 14,2024

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RELEASE FOR DESTRUCTION AS NOTED ON PLANS REVIEW DEVELORMENTS SERVICES LEE'S'SUMMIT'S MISSOURI 07/18/2024 8:50:11

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	J19	Jack-Open	3	1	Job Reference (optional)	166262089

2-11-4

2-11-4

12 4 Г

-1-5-0

1-5-0

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:38 ID:_DaUtZtr1j3xIQx89YhGfEzeDOC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



3



2-11-4

Scale = 1:28.1

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.36	Vert(LL)	0.01	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.22	Vert(CT)	0.01	4-5	>999	180		
BCLL	0.0	* Rep Stress Incr	NO		WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-R							Weight: 13 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP No.2		6)	Provide mech bearing plate	hanical connection capable of withst	n (by oth anding 8	ers) of truss 6 lb uplift at	to joint					
BOT CHORD	2x4 SP No.2			5 and 49 lb u	plift at joint 3.	0	•						
WEBS	2x4 SPF No.3		7)	This truss is	designed in accor	dance w	ith the 2018						
BRACING				International	Residential Code	sections	R502.11.1 a	and					
TOP CHORD	Structural wood s	heathing directly appli	ed or	R802.10.2 a	nd referenced star	ndard AN	ISI/TPI 1.						
	2-11-4 oc purlins	except end verticals.	LOA	AD CASE(S)	Standard								
BOT CHORD	Rigid ceiling direct	tly applied or 10-0-0 c	с										
	bracing.												
REACTIONS (s	size) 3= Me 5=0-5-	hanical, 4= Mechanic 3	al,										
N	Max Horiz 5=72 (_C 9)											
N	Max Uplift 3=-49	LC 12), 5=-86 (LC 8)											
N	Max Grav 3=68 ((LC 1)	_C 1), 4=50 (LC 3), 5=	263										
FORCES	(lb) - Maximum C	ompression/Maximum											
TOP CHORD	2-5=-232/264, 1-2	2=0/35, 2-3=-48/25											
BOT CHORD	4-5=0/0												
NOTES													
1) Wind: ASCE Vasd=91mp Ke=1.00; Ca exterior zon	E 7-16; Vult=115m bh; TCDL=6.0psf; at. II; Exp C; Enclo ie and C-C Exterio	ph (3-second gust) BCDL=6.0psf; h=35ft; ised; MWFRS (envelo r(2E) zone; cantilever	pe) left									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-
exposed;C-(C for members an	d forces & MWFRS fo	r									EOF	AISS

DOL=1.60 This truss has been designed for a 10.0 psf bottom 2)

chord live load nonconcurrent with any other live loads. 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members. Bearings are assumed to be: , Joint 5 SP No.2 crushing 4) capacity of 565 psi.

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



June 14,2024

DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 07/18/2024 8:50:11

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	M01	Monopitch Supported Gable	2	1	Job Reference (optional)	166262090

4-5-8

4-5-8

-0-11-0

0-11-0

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:38 ID:cquXHAJnb2z8dIhvV3xNnzzeCKV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:25.7

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	3/TPI2014	CSI TC BC WB Matrix-P	0.51 0.25 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 16 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES	2x4 SP No.2 2x4 SP No.2 2x4 SPF No Structural w 4-6-0 oc pur Rigid ceiling bracing. (size) 2- Max Horiz 2- Max Horiz 2- Max Horiz 2- Max Grav 2- (lb) - Maximi Tension 1-2=0/19 2-	2 .3 ood shea lins, exc directly : =4-6-0, 4 =76 (LC 9 =-85 (LC =265 (LC um Comp 3=-112/6	thing directly applied ept end verticals. applied or 10-0-0 oc =4-6-0 9) 8), 4=-45 (LC 12) 1), 4=187 (LC 1) pression/Maximum 8, 3-4=-144/238	7) 8) i or 9) 10 LC	All bearings a capacity of 56 Provide mech bearing plate 4 and 85 lb u Beveled plate surface with t) This truss is of International R802.10.2 ar DAD CASE(S)	are assumed to be 35 psi. nanical connection capable of withsta plift at joint 2. e or shim required t russ chord at joint(designed in accord Residential Code s id referenced stand Standard	SP No.: (by othen nding 4 o provid s) 2. ance wi ections dard AN	2 crushing ers) of truss t 5 lb uplift at j de full bearing th the 2018 R502.11.1 a SI/TPI 1.	o oint g nd			•		
BOT CHORD	2-4=-30/40	5=-112/0	0, 3-4=-144/230											
 NOTES Wind: ASC Vasd=91m Ke=1.00; C exterior zo and right e exposed; reactions s DOL=1.60 Truss des only. For s see Stand or consult Gable requ Gable stud This truss chord live I * This truss on the bott 3-06-00 tal chord and 	CE 7-16; Vult= ph; TCDL=6.0 Cat. II; Exp C; ne and C-C C exposed ; end - C-C for membe shown; Lumbe igned for wind studs exposed ard Industry G qualified build uires continuor is spaced at 2 has been desi load nonconct s has been de tom chord in a II by 2-00-00 w any other mer	115mph (Dpsf; BCI Enclosed orner(3E vertical le rs and for r DOL=1 Hoads in t to wind able End ing desig us bottom -0-0 oc. gned for urrent witt signed for II areas v vide will fi	(3-second gust) DL=6.0psf; h=35ft; t; MWFRS (envelope)) zone; cantilever lef ff and right rces & MWFRS for .60 plate grip the plane of the trus (normal to the face), Details as applicabl ner as per ANSI/TPI n chord bearing. a 10.0 psf bottom h any other live load: or a live load of 20.0p where a rectangle it between the bottor	e) t e, 1. s. sf n								* Pitter	STATE OF M SCOTT SEVIL CENSMA PE-20010	M. ER HISSOLA ER HISSOLA HISSO

3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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June 14,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 191	
P240542-01	M02	Monopitch	7	1	Job Reference (optional)	166262091

4-5-8

-0-11-0

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Fri Jun 14 12:32:38 ID:KTzupnDOFu58HEfZb5Jk?VzeCKc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:29.1

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI TC 0 BC 0 WB 0).37).22).00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.03 0.00	(loc) 2-4 2-4 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SPF No.3 Structural wood shea 4-6-0 oc purlins, ext Rigid ceiling directly bracing. (size) 2=0-5-8, 4 Max Horiz 2=76 (LC	athing directly applie sept end verticals. applied or 10-0-0 oc I=0-1-8 9)	 6) Provide merbearing plat 7) Provide merbearing plat 2 and 42 lb d or 8) This truss is Internationa R802.10.2 at LOAD CASE(S) 	chanical connection (by e at joint(s) 4. chanical connection (by e capable of withstand uplift at joint 4. designed in accordand I Residential Code sec and referenced standar	y othe ling 9 ice wi ctions rd AN	ers) of truss to ers) of truss to 5 lb uplift at jo th the 2018 R502.11.1 at SI/TPI 1.	o o oint nd						
FORCES TOP CHORD BOT CHORD	Max Uplift 2=-95 (LC Max Grav 2=275 (LC (lb) - Maximum Com Tension 1-2=0/19, 2-3=-102/0 2-4=-30/33	8), 4=-42 (LC 12) 1), 4=172 (LC 1) pression/Maximum 60, 3-4=-132/193											
NOTES 1) Wind: AS(Vasd=91n Ke=1.00; exterior zc and right e exposed;(reactions : DOL=1.60 2) This truss chord live 3) * This trus on the bot 3-06-00 ta chord and Bearings a capacity o	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed; end vertical I C-C for members and for shown; Lumber DOL=1) has been designed for load nonconcurrent wi as has been designed for tom chord in all areas all by 2-00-00 wide will I any other members. are assumed to be: Joi of 565 psi, Joint 4 SPF I	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever le eft and right prces & MWFRS for l.60 plate grip : a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto nt 2 SP No.2 crushir No.3 crushing capad	e) eft ds. psf m ity						c		STATE OF M SCOTT SEVI	MISSOUP ER BER	

- of 425 psi.
- $\stackrel{\cdot}{\text{Bearing}}$ at joint(s) 4 considers parallel to grain value 5) using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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 colleges 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 BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)







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