

RE: 4619349 JSJ, Belford Prime Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:Customer: JSJ BuildersProject Name: 4619349Lot/Block: 10Model: BELFORD PRIMEAddress:Subdivision: ILAS WAYCity: DunnState: NC

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

Design Code: IRC2015/TPI2014 Wind Code: ASCE 7-10 Roof Load: 40.0 psf Design Program: MiTek 20/20 8.8 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 46 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Seal# I71926193 I71926194 I71926195 I71926196 I71926197 I71926199 I71926200 I71926200 I71926201 I71926203 I71926203 I71926205 I71926205 I71926206 I71926208 I71926208 I71926209	Truss Name A01 A02 A03 A04 A05 A06 A07 A08 A09 A10 A11 A12 A13 A14 A15 A16 B01	Date 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	Seal# I71926213 I71926214 I71926215 I71926216 I71926217 I71926219 I71926220 I71926220 I71926221 I71926222 I71926223 I71926223 I71926225 I71926225 I71926226 I71926227 I71926228 I71926229	Truss Name C01 CJ1 D02 D03 E01 JA1 JA2 JA3 JA4 JA5 JA6 JA7 JA8 JA9 PB01 V01	Date 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025
16 17 18 19 20	I71926208 I71926209 I71926210 I71926211 I71926212	A16 B01 B02 B03 B04	3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025	36 37 38 39 40	171926228 171926229 171926230 171926231 171926232	PB01 V01 V02 V03 V04	3/12/2025 3/12/2025 3/12/2025 3/12/2025 3/12/2025

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



Gilbert, Eric



RE: 4619349 - JSJ, Belford Prime

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: JSJ Builders Project Name: 4619349 Lot/Block: 10 Subdivision: ILAS WAY Address: City, County: Dunn State: NC

No.	Seal#	Truss Name	Date
41	171926233	V05	3/12/2025
42	171926234	V06	3/12/2025
43	171926235	V07	3/12/2025
44	171926236	V08	3/12/2025
45	171926237	V09	3/12/2025
46	171926238	V10	3/12/2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A01	Hip Girder	1	2	Job Reference (optional)	171926193

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:43 ID:Oj3x?rAwS00IGDxR_JiCAlzWhXN-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f





BOT CHORD	Rigid ceili	ng directly applied or 9-0-9 oc						
	bracing.							
REACTIONS	(size)	1= Mechanical, 8= Mechanical						
	Max Horiz	1=-111 (LC 4)						
	Max Uplift	1=-1185 (LC 5), 8=-1185 (LC 4)						
	Max Grav	1=2309 (LC 1), 8=2309 (LC 1)						
FORCES	(lb) - Max	imum Compression/Maximum						
	Tension							
TOP CHORD	1-2=-3329	9/1837, 2-3=-4801/2788,						
	3-4=-4801/2788, 4-6=-4801/2788,							
	6-7=-480	1/2788, 7-8=-3329/1838						
BOT CHORD	1-15=-15	51/2743, 13-15=-1553/2754,						
	12-13=-31	164/5538, 11-12=-3164/5538,						
	9-11=-146	60/2697, 8-9=-1460/2687						
WEBS	7-9=-80/3	44, 2-15=-79/344,						
	7-11=-152	28/2550, 3-13=-398/343,						
	2-13=-152	27/2549, 4-13=-789/473,						
	4-12=-18	5/507, 4-11=-788/472,						
	6-11=-398	3/343						

NOTES

 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom

right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- chord live load nonconcurrent with any other live loads.
 7) * 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.
- B) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1185 lb uplift at joint 1 and 1185 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- LOAD CASE(S) Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-60, 2-7=-60, 7-8=-60, 16-19=-20 Concentrated Loads (lb)

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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 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.sbcaccomponents.com)



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A02	Нір	1	1	Job Reference (optional)	171926194

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:44 ID:YyX6KvsBuqP4JcggfdmtozzWhZ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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	6-9-12	13-6-15	20-4-1	27-1-4	33-11-0	
	6-9-12	6-9-3	6-9-3	6-9-3	6-9-12	1
Scale = 1:62						

Plate Offsets (X, Y): [3:0-4-0,0-1-9], [7:0-4-0,0-1-9]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MS	0.84 0.86 0.47	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.14 -0.30 0.13 0.19	(loc) 10-12 13-15 9 10-12	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 177 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SPF No.2(flat) Left 2x4 SP No.2 - 2 2-6-0 Structural wood she 2-2-0 oc purlins, exc 2-0-0 oc purlins (3-5	2-6-0, Right 2x4 SP N athing directly applie tept -4 max.): 3-7.	2 No.2 ed or 3	 Wind: ASCE Vasd=103mp II; Exp C; En and C-C Exte 6-11-8, Exter to 33-11-0 zc vertical left a forces & MW DOL=1.60 pl Provide adec This truss ba 	7-10; Vult=130m h; TCDL=6.0psf closed; MWFRS erior (2) 0-0-0 to 3 ior (2) 0-11-8 to erior (2) 26-11-8 to ne; cantilever lef nd right exposed FRS for reaction ate grip DOL=1.6 quate drainage to s been designed	iph (3-sec ; BCDL=6 (envelope 3-4-11, In 11-9-1, In to 31-9-1, it and righ ;C-C for n s shown; 60 prevent of for a 10	cond gust) .0psf; h=25ft; e) exterior zor terior (1) 3-4- terior (1) 11-5 Interior (1) 31 it exposed; e nembers and Lumber water ponding	; Cat. ne -11 to -1 to 1-9-1 end g.						
BOT CHORD WEBS REACTIONS	Rigid ceiling directly bracing. T-Brace: Fasten (2X) T and I web with 10d (0.131 3in minimum end dis Brace must cover S (size) 1= Mecha	applied or 7-1-7 oc 2x4 SPF No.2 - 4-15 6-10, 4-12 braces to narrow ed "x3") nails, 6in o.c.,w stance. 00% of web length. nical, 9= Mechanica	5, 5 dge of vith 6 7	 This truss has have been as the second live loas of the second sec	as been designed ad nonconcurrent ass been designe n chord in all are: y 2-00-00 wide v y other members er(s) for truss to t hanical connectic c capable of withs unlift at iont 9	with any d for a liv as where vill fit betv s. russ conr on (by oth standing 2	other live loa e load of 20.0 a rectangle veen the botto nections. ers) of truss t 284 lb uplift at	ds. Opsf om o joint						
	Max Horiz 1=152 (LC Max Uplift 1=-284 (L Max Grav 1=1357 (L	C 9) C 9), 9=-284 (LC 8) _C 1), 9=1357 (LC 1)	8) Graphical pu or the orienta bottom chore	rlin representatio ation of the purlin	n does no along the	ot depict the s top and/or	size						
FORCES	(lb) - Maximum Com Tension 1-3=-1904/581, 3-4= 4-6=-2280/758, 6-7= 7-9=-1904/581	pression/Maximum 1499/547, 1499/547,	9 L) Warning: Ade truss system always requi OAD CASE(S)	ditional permaner (not part of this o red. Standard	nt and sta componer	bility bracing nt design) is	for		4	N	ORTHOR		
BOT CHORD	1-15=-460/1518, 13- 12-13=-685/2280, 10 9-10=-346/1518	-15=-685/2280, 0-12=-644/2280,								THE P		SEA		NULL.
WEBS	7-10=-142/703, 3-15 4-15=-1044/444, 6-1 4-13=0/276, 4-12=-5	5=-142/703, 0=-1045/443, 51/51, 6-12=0/276								1111			EREAL	
this design	n.											A. G	ILBUTT	

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March 12,2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A03	Нір	1	1	Job Reference (optional)	171926195

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:45 ID:I2HHuK6E1H7fQK5pfggtQOzWhbK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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	8-9-12	16-11-8	25-1-4	33-11-0
	8-9-12	8-1-12	8-1-12	8-9-12
Scale = 1:65.7				

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MS	0.47 0.85 0.48	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.13 -0.28 0.10 0.12	(loc) 10-12 12-14 9 10-12	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 199 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 *Excep 2x4 SP No.2 2x4 SP No.3 2x4 SPF No.2(flat) Left 2x4 SP No.2 - 2-6-0 Structural wood she 3-7-9 oc purlins, exc 2-0-0 oc purlins, exc 2-0-0 oc purlins (5-8 Rigid ceiling directly bracing. T-Brace: Fasten (2X) T and I web with 10d (0.131	ot* 4-6:2x6 SP No.2 2-6-0, Right 2x4 SP N eathing directly applied sept 3-7 max.): 4-6. applied or 8-2-13 oc 2x4 SPF No.2 - 5-14 5-10 braces to narrow edg "x3") nails, 6in o.c. w	2) lo.2 d or , 3) 4) , 5) ge of ith	Wind: ASCE Vasd=103mp II; Exp C; En and C-C Extt 8-11-8, Exter 24-11-8, Exter to 33-11-0 zc vertical left a forces & MW DOL=1.60 pl Provide adec This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an	7-10; Vult=130mp h; TCDL=6.0psf; closed; MWFRS (erior (2) 0-0-0 to 3 ior (2) 8-11-8 to 1 erior (2) 24-11-8 to 1 erior (2) 24-11-8 to tone; cantilever left nd right exposed; FRS for reactions ate grip DOL=1.60 uate drainage to p s been designed f ad nonconcurrent has been designed n chord in all area y 2-00-00 wide wi y other members,	h (3-sec BCDL=6 envelope -4-11, In 3-9-1, In 29-9-1, and righ C-C for n shown;) or event v or a 10.0 with any I for a liv s where Il fit betv with BC	cond gust) .0psf; h=25ft; e) exterior zor terior (1) 3-4- terior (1) 13-4- interior (1) 2 ² t exposed; e nembers and Lumber water ponding 0 psf bottom other live loa e load of 20.0; a rectangle ween the bott CDL = 10.0psf	Cat. ne 11 to 9-9-1 to 9-9-1 nd g. ds. 0psf					
REACTIONS	3in minimum end di Brace must cover 9 (size) 1= Mecha Max Horiz 1=197 (Lt Max Uplift 1=-257 (L Max Grav. 1=1357 (I	stance. 90% of web length. anical, 9= Mechanical C 9) .C 12), 9=-257 (LC 13 .C 1), 9=1357 (LC 1)	6) 7) 3) 8)	 6) Refer to girder(s) for truss to truss connections. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 1 and 257 lb uplift at joint 9. 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or 						1117.			
FORCES	(lb) - Maximum Com Tension 1-3=-1888/588, 3-4= 4-5=-1429/533, 5-6=	=-1747/590, =-1429/533,	9) L(Warning: Add truss system always requir	i. ditional permanent (not part of this co red. Standard	and sta	bility bracing nt design) is	for		4	in the	OR TH CA	ROUN
BOT CHORD WEBS	6-7=-1747/590, 7-9= 1-14=-43271505, 12 10-12=-49771925, 9 3-14=-224/234, 4-14 5-14=-745/344, 5-12 6-10=-141/629, 7-10	1888/588 -14=-497/1925, -10=-382/1505 4=-141/629, 2=0/387, 5-10=-745/3 D224/235	43,							The second		SEA 0363	L 22
NOTES 1) Unbalance this design	ed roof live loads have n.	been considered for								3		A. G. March	



March 12,2025

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A04	Нір	1	1	Job Reference (optional)	171926196

Run: 8 83 S. Feb 18 2025 Print: 8 830 S Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:45 ID:_07FIA3LPs9LQ213FKv_ymzWhye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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	J=1=0	10-9-12	10-11-0	23-1-4	20-3-0	33-11-0	
	5-7-8	5-2-4	6-1-12	6-1-12	5-2-4	5-7-8	I
Scale = 1:71.3							

Plate Offsets (X, Y): [1:0-3-8,Edge], [4:0-4-0,0-1-9], [6:0-4-0,0-1-9], [9:0-5-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.52	Vert(LL)	-0.10	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.21	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	13-14	>999	240	Weight: 207 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
WEBS	2x4 SP N	0.3
OTHERS	2x4 SPF I	No.2(flat)
SLIDER	Left 2x4 S 2-6-0	SP No.2 2-6-0, Right 2x4 SP No.2
BRACING		
TOP CHORD	Structura	I wood sheathing directly applied or
	3-5-11 oc	purlins, except
	2-0-0 oc p	purlins (4-7-10 max.): 4-6.
BOT CHORD	Rigid ceili bracing.	ing directly applied or 9-4-4 oc
WEBS	T-Brace:	2x4 SPF No.2 - 5-14,
		5-12
	Fasten (2	X) T and I braces to narrow edge of
	web with	10d (0.131"x3") nails, 6in o.c.,with
	3in minim	ium end distance.
	Brace m	iust cover 90% of web length.
REACTIONS	(size)	1= Mechanical, 9= Mechanical
	Max Horiz	1=241 (LC 9)
	Max Uplift	1=-283 (LC 12), 9=-283 (LC 13)
	Max Grav	1=1357 (LC 1), 9=1357 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-3=-1904	4/563, 3-4=-1677/579,
	4-5=-132	5/541, 5-6=-1325/541,
	6-7=-167	7/579, 7-9=-1904/563
BOT CHORD	1-16=-38	5/1522, 14-16=-385/1522,
	13-14=-3	14/1538, 12-13=-314/1538,
	10-12=-36	64/1522, 9-10=-364/1522
WEBS	3-16=0/16	53, 3-14=-387/273, 4-14=-129/582,
	5-14=-47	1/249, 5-13=0/327, 5-12=-471/249,
	6-12=-12	9/582, 7-12=-387/274, 7-10=0/163

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-4-11, Interior (1) 3-4-11 to 10-11-8, Exterior (2) 10-11-8 to 15-9-1, Interior (1) 15-9-1 to 22-11-8, Exterior (2) 22-11-8 to 27-9-1, Interior (1) 27-9-1 to 33-11-0 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 Provide adequate drainage to prevent water ponding. 3)

- 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, with BCDL = 10.0psf. 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 283 lb uplift at joint 1 and 283 lb uplift at joint 9.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for 9) truss system (not part of this component design) is always required.
- LOAD CASE(S) Standard



NOTES

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

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A05	Нір	1	1	Job Reference (optional)	171926197

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:45 ID:zgU7w511QISPj_1jnzt3?qzWhzz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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	7-3-8	13-9-4	23-8-6	33-7-8	33-11-0
ĺ	7-3-8	6-5-12	9-11-2	9-11-2	0-3-8

Scale = 1:83.2

Plate Olisets (X, Y): [1:Edge,0-0-6], [4:0-3-5,Edge], [5:0-6-12,0-2-0], [10:0-0-11,0-3-2], [13:0-5-8,0-3-8]	Plate Offsets (X, Y): [1	[1:Edge,0-0-6], [4:0-3-5,Edge], [5:0-6-12,0-2-0], [10:0-0-11,0-3-2], [13:0-5-8,0-3-8]
---	--------------------------	---

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MS	0.56 0.36 0.96	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.19 -0.40 0.24 0.16	(loc) 12-13 12-13 10 12-13	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 226 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP 2400F 2.0E d SS *Except* 4-5:2x6 2x6 SP 2400F 2.0E d 2x4 SP No.3 2x4 SPF No.2(flat) Left 2x4 SP No.2 2 2-6-0 Structural wood shee 2-9-8 oc purlins, exc 2-0-0 oc purlins (5-6 Rigid ceiling directly bracing.	or 2x4 SP DSS or 2x SP No.2 or 2x6 SP DSS 2-4-9, Right 2x4 SP N athing directly applie ept -0 max.): 4-5. applied or 9-9-9 oc	2) 4 SP No.2 d or 3) 4) 5)	Wind: ASCE Vasd=103mp II; Exp C; En and C-C Extt 12-11-8, Exte to 20-11-8, E 25-9-1 to 34- exposed ; en members an Lumber DOL Provide adec This truss ha chord live loa * This truss h	7-10; Vult=130m, h; TCDL=6.0psf; closed; MWFRS (prior (2) 0-0-12 to prior (2) 12-11-8 to xterior (2) 20-11-1 10-0 zone; cantile d vertical left and d forces & MWFR =1.60 plate grip E uate drainage to s been designed id nonconcurrent nas been designed in plate area	bh (3-sec BCDL=6 envelope 3-5-7, In 5 17-9-1, 3 to 25-9 ever left a right exp S for rea DOL=1.60 prevent v for a 10.0 with any d for a liv is where	ond gust) .0psf; h=25ft; e) exterior zor terior (1) 3-5- Interior (1) 3-5- Interior (1) 3-5- Interior (1) nd right lossed;C-C for ctions shown) water ponding) psf bottom other live loae e load of 20.0.0	Cat. ne 7 to 7-9-1 ; , l. ds. psf					
REACTIONS	Fasten (2X) T and I web with 10d (0.131 3in minimum end dis Brace must cover 9 (size) 1= Mecha	2x4 SPF N0.2 - 5-13 braces to narrow ed "x3") nails, 6in o.c.,w stance. 10% of web length. nical 10=0-3-8	ge of ^{vith} 6) 7)	3-06-00 tall b chord and an Bearings are or DSS . Refer to girde	by 2-00-00 wide w by other members assumed to be: , er(s) for truss to tr	ill fit betw Joint 10 russ conr	SP 2400F 2.0	om DE					
REACTIONS	Max Horiz 1=-299 (L Max Uplift 1=-304 (L Max Grav 1=1353 (L	C 8) C 12), 10=-335 (LC ⁻ .C 1), 10=1410 (LC 1	8) 13) 1) <u>9</u>)	Bearing at jo using ANSI/T designer sho Provide med	int(s) 10 considers PI 1 angle to grai uld verify capacity hanical connection	s parallel n formula / of beari n (by oth	to grain value a. Building ng surface. ers) of truss to	e				minin	1100
FORCES	(lb) - Maximum Com Tension	pression/Maximum	0)	bearing plate 1 and 335 lb	capable of withst uplift at joint 10.	anding 3	04 lb uplift at	joint			J.	RTHCA	ROLI
TOP CHORD	1-3=-1886/554, 3-4= 4-5=-1292/532, 5-6= 6-8=-3423/809, 8-10	-1539/555, -3369/945, =-3674/985, 10-11=(10 0/31	 Graphical pu or the orienta bottom chord 	rlin representatior ation of the purlin a l.	n does no along the	ot depict the s top and/or	ize		4	Ì	EESO	That?
BOT CHORD	1-14=-385/1498, 13- 12-13=-246/1860, 10	14=-385/1498,)-12=-744/3165	11) Warning: Add truss system	ditional permanen (not part of this c	t and sta omponer	bility bracing nt design) is	for				SEA	LÌE
WEBS	3-14=0/228, 3-13=-5 6-12=-288/271, 8-12 5-13=-800/132, 5-12	29/328, 4-13=-69/46 =-349/403, =-474/2329	69, LC	always requi	red. Standard	•	0, -			THE PARTY		0363	22
NOTES 1) Unbalance this design	ed roof live loads have n.	been considered for										A MGINE	ERALIN

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



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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A06	Нір	1	1	Job Reference (optional)	171926198

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:46 ID:JBYAsVECGGoPzEjH6uDL?dzWi0H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Plate Offsets (X, Y): [1:Edge,0-0-6], [4:0-3-0,0-2-3], [5:0-7-5,Edge], [10:0-0-11,0-3-2], [12:0-4-0,0-3-12], [13:0-4-0,0-3-8]

Scale = 1:88.8

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	5/TPI2014	CSI TC BC WB Matrix-MS	0.56 0.36 0.77	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.20 -0.43 0.25 0.19	(loc) 12-13 12-13 10 12-13	l/defl >999 >937 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 226 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS WEDGE SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP 2400F 2.0E d SS *Except* 4-5:2x6 2x6 SP 2400F 2.0E d 2x4 SP No.3 *Except Left: 2x4 SP No.3 Right 2x4 SP No.2 Structural wood shea 2-9-9 oc purlins, exc 2-0-0 oc purlins, exc 2-0-0 oc purlins (6-0- Rigid ceiling directly bracing. 1 Row at midpt (size) 1= Mecha Max Horiz 1=-344 (L0 Max Uplift 1=-323 (L0 Max Grav 1=1356 (L	or 2x4 SP DSS or 2x SP No.2 or 2x6 SP DSS t* 12-5:2x4 SP No.2 2-6-0 athing directly applie ept -0 max.): 4-5. applied or 10-0-0 or 5-13 nical, 10=0-3-8 C 10) C 12), 10=-353 (LC .C 1), 10=1412 (LC	2) 4 SP 2 d or 3) 4) 5 5) 13) 6) 1) 7)	Wind: ASCE Vasd=103mp II; Exp C; En and C-C Exte 14-11-8, Exte to 34-10-0 zc vertical left a forces & MW DOL=1.60 pl Provide adec This truss ha on the bottom 3-06-00 tall b chord and an Bearings are or DSS. Refer to girde	7-10; Vult=130mp oh; TCDL=6.0psf; closed; MWFRS (erior (2) 0-0-0 to 3 erior (2) 14-11-8 to one; cantilever left nd right exposed; (FRS for reactions ate grip DOL=1.60 quate drainage to p s been designed ad nonconcurrent as been designed n chord in all area by 2-00-00 wide wi y other members. assumed to be: , er(s) for truss to tru	th (3-sec BCDL=6 envelope- -4-11, In) 23-8-6, and righ C-C for n shown;) or event (or a 10.0 with any t for a liv s where Il fit betw Joint 10 uss conr	ond gust) .0psf; h=25ft) exterior zo terior (1) 3-4 Interior (1) 2-4 Interior (1) 2 t exposed ; e nembers and Lumber water pondin- 0 psf bottom other live loze e load of 20. a rectangle veen the bott SP 2400F 2. mections.	;; Cat. ne -11 to 23-8-6 end g. g. ads. Opsf om .0E						
TOP CHORD	(lb) - Maximum Com Tension 1-2=-1945/542, 2-4= 4-5=-1281/538, 5-6=	pression/Maximum -1543/551, -3454/968,	8) 9)	Bearing at jo using ANSI/T designer sho Provide mec	int(s) 10 considers PI 1 angle to grain uld verify capacity hanical connection	s parallel n formula of beari n (by oth	to grain valu a. Building ng surface. ers) of truss	to				mun	110.	
BOT CHORD WEBS NOTES	6-8=-3438//81, 8-10 1-14=-457/1564, 13- 12-13=-140/1455, 10 6-12=-409/340, 8-12 5-12=-534/2522, 4-1 5-13=-555/101, 2-13	=-36/3/939, 10-11= 14=-457/1564, 0-12=-703/3163 =-311/380, 2-14=0/2 3=-113/504, =-613/386	222, LC	bearing plate 1 and 353 lb) Graphical pu or the orienta bottom chore DAD CASE(S)	e capable of withst uplift at joint 10. rlin representation ation of the purlin a l. Standard	anding 3 does no along the	23 lb uplift a ot depict the s top and/or	t joint size		1 min	in i	OR SEA	ROUN	North Contraction
1) Unholonoo	d roof live loade hove	haan annaidarad fa								-	•	SLA	• •	

1)

Unbalanced roof live loads have been considered for this design.



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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A07	Piggyback Base	1	1	Job Reference (optional)	171926199

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:46 ID:0GSNawXJMXsPuOdGCAZqDnzWhvS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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3-7-6	13-9-4	23-8-6	33-7-8	33-11-0
3-7-6	10-1-14	9-11-2	9-11-2	0-3-8

Scale = 1:88.8

Plate Offsets ((X, Y): [4:0-3-0,0-2-3],	, [5:0-4-0,0-1-9], [10:	0-0-11,0-3	-2], [12:0-4-0,0	-3-12], [13:0-1-15,	0-3-5]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MS	0.55 0.36 0.70	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.20 -0.43 0.25 0.19	(loc) 12-13 12-13 10 12-13	l/defl >999 >936 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 241 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP 2400F 2.0E SS *Except* 4-5:2x6 2x6 SP 2400F 2.0E 2x4 SP No.3 *Excep Right 2x4 SP No.2 - Structural wood she 2-9-14 oc purlins, e 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 10=0-3-8, Max Horiz 15=320 (I Max Uplift 10=-350 (Max Grav 10=1407	or 2x4 SP DSS or 2: 3 SP No.2 or 2x6 SP DSS t* 15-1,12-5:2x4 SP - 2-6-0 athing directly applie xcept end verticals, -0 max.): 4-5. - applied or 10-0-0 or 5-13 , 15= Mechanical _C 11) [LC 13), 15=-323 (LC (LC 1), 15=-325 (LC	2) x4 SP No.2 ed or and c 3) 4) 5) C 12) ▷ 1) 6)	Wind: ASCE Vasd=103mp II; Exp C; En and C-C Exte to 23-0-0, Ex 26-4-11 to 27 (1) 30-4-11 to exposed ; en and forces & DOL=1.60 pl Provide adec This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Bearings are	7-10; Vult=130mp bh; TCDL=6.0psf; I closed; MWFRS (e erior (2) 8-2-4 to 1 tterior (2) 23-0-0 to 7-0-0, Exterior (2) 2 o 42-10-8 zone; ca d vertical right exp MWFRS for react ate grip DOL=1.60 quate drainage to p is been designed f ad nonconcurrent v has been designed in chord in all areas by 2-00-00 wide win by other members, assumed to be:	h (3-sec 3CDL=6 anvelope 1-9-10, I 26-4-11 27-0-0 to initilever ions sho or a 10. vith any for a liv s where Il fit betw with BC Joint 10	ond gust) .0psf; h=25ft e) exterior zo nterior (1) 11 , Interior (1) b 30-4-11, Int left and right C for member wn; Lumber water ponding o psf bottom other live load e load of 20.1 a rectangle veen the bott DL = 10.0psf SP 2400F 2.	; Cat. ne -9-10 terior g. g. opsf om f. .0E						
FORCES	(Ib) - Maximum Com Tension 1-2=-1559/391, 2-3= 3-4=-1530/562, 4-5=	npression/Maximum =-1918/606, =-1238/505,	7) 8)	or DSS . Refer to girde Bearing at jo using ANSI/T	er(s) for truss to tru int(s) 10 considers	uss conr paralle	ections. to grain valu a. Building	ie						
BOT CHORD WEBS	1-15=-1319/360, 5-6 6-8=-3416/743, 8-10 14-15=-311/290, 13 12-13=-129/1432, 10 1-14=-381/1679, 6-1	6=-3456/931, 0=-3654/906, 10-11= -14=-349/1418, 0-12=-675/3147 12=-451/351, 2=-512/2545	=0/31 9) 10	designer sho Provide mech bearing plate 15 and 350 ll) Graphical pu	build verify capacity hanical connection capable of withsta b uplift at joint 10. Irlin representation	of beari (by oth anding 3 does no	ng surface. ers) of truss t 23 lb uplift at ot depict the s	to t joint size			A.L.	ORTH CA	ROLIN	1
NOTES	4-13=-157/613, 5-13 2-14=-900/398, 3-13 3-14=-139/360	3=-557/94, 3=-508/377,	LC	bottom chord DAD CASE(S)	Standard	liong the	top and/or					SEA 0363	22	A A A A A A A A A A A A A A A A A A A

 Unbalanced roof live loads have been considered for this design.



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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A08	Piggyback Base	3	1	Job Reference (optional)	171926200

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:46 ID:cfhpGhMPAS1b7IPq?IUrAezWi6a-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Plate Offsets (X, Y): [2:0-2-12,0-0-2], [6:0-3-0,0-2-3], [7:0-1-0,0-2-4], [12:0-0-11,0-3-2], [[15:0-4-0,0-3-8]
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Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MS	0.48 0.33 0.98	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.19 -0.40 0.22 0.17	(loc) 14-15 14-15 12 14-15	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 274 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP 2400F 2.0E d SS *Except* 6-7:2x6 2x6 SP 2400F 2.0E d 2x4 SP No.3 Right 2x4 SP No.2 Structural wood shea 3-0-14 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-0, 1 Max Horiz 2=364 (LC Max Uplift 2=-277 (L 18=-575 (L 8x Grav 2=82 (LC 18=2134 (or 2x4 SP DSS or 2; SP No.2 or 2x6 SP DSS -2-6-0 athing directly applie coept -0 max.): 6-7. applied or 6-0-0 oc 5-16, 7-15 12=0-3-8, 18=0-3-8 C 11) C 8), 12=-340 (LC 1 LC 12) 23), 12=1317 (LC 1) (LC 1)	2, x4 SP ed or 3; 4; 5; 3), 6; 7,	 Wind: ASCE Vasd=103mp Lyasd=103mp Lyap C; En and C-C Externois to 23-0-0, Ex 31-2-6 to 42- exposed; energy exposed; energy exposed; c-C reactions shot DOL=1.60 Provide adect This truss hat chord live loat This truss hat chord live loat * This truss hat chord live loat this truss hat chord live loat this truss hat chord live loat * This truss hat chord and and and the bottom of and and and and and and and and and and	7-10; Vult=130mp bh; TCDL=6.0psf; closed; MWFRS (erior (2) -0-10-8 to terior (2) 23-0-0 to 10-8 zone; cantile d vertical left and for members and own; Lumber DOL quate drainage to p s been designed fad nonconcurrent has been designed n chord in all area yo 2-00-00 wide wi yo other members, are assumed to be int(s) 12 considers	oh (3-sec BCDL=6 envelope 3-3-14,) 31-2-6, ever left a right exp i forces & =1.60 pla prevent \ for a 10.0 with any i for a liv s where with BC e SP 240 s parallel o formula	cond gust) const; h=25ft) exterior zoi Interior (1) 3- Interior (1) and right osed; porch & MWFRS foi ate grip water ponding) psf bottom other live loa e load of 20.0 a rectangle DL = 10.0psi OF 2.0E or D to grain valu a Building	; Cat. ne -3-14 left r g. dds. 0psf om f. VSS . le					
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Com Tension 1-2=0/15, 2-3=-363/ 4-5=-811/239, 5-6=- 6-7=-1075/467, 7-8= 8-10=-3103/656, 10- 12-13=0/31 2-18=-1269/424, 16-	pression/Maximum 1292, 3-4=-663/123, 1318/494, 3141/848, -12=-3367/825, -18=-1269/424.	, 9)	 designer sho Provide mecl bearing plate 2, 340 lb upli Graphical pu or the orienta bottom chors 	uld verify capacity hanical connectior capable of withst ft at joint 12 and 5 rlin representation ation of the purlin a	y of beari an (by oth anding 2 75 lb up 1 does no along the	ng surface. ers) of truss t 77 lb uplift at lift at joint 18 ot depict the s top and/or	to t joint size		6	- AL	ORTH CA	ROLVII
WEBS	15-16=-260/1130, 14 12-14=-606/2903 3-18=-1830/524, 8-1 10-14=-346/384, 4-1 3-16=-389/2062, 5-1 5-16=-713/265, 6-15 7-15=-584/99, 7-14=	4-15=-82/1262, 4=-446/350, 6=-484/250, 5=-273/308, =-143/495, -471/2368	L	OAD CASE(S)	 Standard					A THURSDAY		SEA 0363	L 22

NOTES

Scale = 1:101.7

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



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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A09	Piggyback Base	1	1	Job Reference (optional)	171926201

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:47 ID:oz9po9GeSn?zAXexeP8b28zWhtC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Plate Offsets (X, Y): [1:Edge,0-0-6], [4:0-3-0,0-2-3], [5:0-4-0,0-1-9], [10:0-0-11,0-3-2], [12:0-4-0,0-3-12], [13:0-4-0,0-3-8]

4-3-8	7-3-8	13-9-4	23-8-6	33-7-8	33-11-0
4-3-8	3-0-0	6-5-12	9-11-2	9-11-2	0-3-8

Scale = 1:89.1

LUMBER TOP CHORD2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS *Except* 4.5:2x6 SP No.22)Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0pst; BCDL=6.0pst; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to Vasd=103mph; TCDL=6.0pst; BCDL=6.0pst; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 23-2-7 to 34-10-0 zone; cantilever left and right exposed; end SULDER Right 2x4 SP No.3 *Except* 12-5:2x4 SP No.221BARCING TOP CHORDStructural wood sheathing directly applied or 2-01-0 co purlins, except 2-00 oc purlins (6-0-0 max.): 4-5. Rigid ceiling directly applied or 10-0-0 co bracing.20Porvide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psfREACTIONS(size) 1 = Mechanical, 10=0-3-8, 15=0-3-8 Max Horiz1 =-200 (LC 12), 10=-344 (LC 13), 15=-140 (LC 12) Max Grav1 =-200 (LC 12), 10=-344 (LC 13), 15=505 (LC 1), 10=1348 (LC 1), 15=505 (LC 1)20Max Grav1 =+154 (LC 12), 15=505 (LC 1)2+00 F 2.0E 1 angle to grain formula. Building	
FORCES (lb) - Maximum Compression/Maximum Tension designer should verify capacity of bearing surface. TOP CHORD 1-2=-1487/416, 2-4=-1381/505, 4-5=-1149/505, 5-6=-3253/903, 6-8=-3214/710, 8-10=-3468/874, 10-11=0/31 9 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 1, 140 lb uplift at joint 15 and 344 lb uplift at joint 10. 1, 140 lb uplift at joint 10.	111
BOT CHORD 1-15=-350/1198, 14-15=-350/1198, 13-14=-350/1198, 12-13=-103/1322, 10-12=-648/2988 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. WEBS 4-13=-104/415, 6-12=-450/351, 5-13=-566/97, 5-12=-501/2431, 2-13=-284/299, 8-12=-335/382, 2-14=-292/169 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.	

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



G minim March 12,2025

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A10	Piggyback Base	2	1	Job Reference (optional)	171926202

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:47 ID:oz9po9GeSn?zAXexeP8b28zWhtC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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Plate Offsets (X, Y): [1:Edge,0-0-6], [4:0-3-0,0-2-3], [5:0-4-0,0-1-9], [10:0-2-15,0-0-1], [12:0-4-0,0-3-12], [13:0-4-0,0-3-8]

				33-11-0
7-3-8	13-9-4	23-8-6	33-7-8	
7-3-8	6-5-12	9-11-2	9-11-2	
	0012	0 2	0 1 2	0-3-8

Scale = 1:89.1

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MS	0.41 0.22 0.91	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.11 -0.26 0.14 0.10	(loc) 12-13 12-13 10 12	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 227 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEDGE SLIDER BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	2x4 SP 2400F 2.0E + SS *Except* 4-5:2x6 2x6 SP 2400F 2.0E + 2x4 SP No.3 Left: 2x4 SP No.3 Right 2x4 SP No.2 Structural wood she 4-1-9 oc purlins, exc 2-0-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 1= Mecha Max Horiz 1=-346 (L Max Uplift 1=-371 (L 14=-384 (Max Grav 1=55 (LC 14=1991 / (lb) - Maximum Com Tension 1-2=-260/829, 2-4=- 5-6=-2000/612, 6-8= 5-6=-2000/612, 6-8 8-10=-2307/609, 10- 1-14=-708/372, 13-1 12-13=-101/1072, 2-1 6-12=-436/349, 8-12 5-13=-694/108, 5-12 4-13=-172/138 ed roof live loads have n.	or 2x4 SP DSS or 2x SP No.2 or 2x6 SP DSS - 2-6-0 athing directly applier ept -0 max.): 4-5. applied or 6-0-0 oc 5-13, 4-13 inical, 10=0-3-8, 14=0 C 8) C 24), 10=-285 (LC 1 LC 12) 8), 10=984 (LC 1), (LC 1) pression/Maximum 513/292, 4-5=-485/3: -1951/421, -11=0/31 4=-708/372, -12=-425/1998 4=-1729/495, =-448/402, =-340/1729, been considered for	2) 4 SP d or 3) 4) 5) 0-3-8 (3), 7) 8) 39, 9) 39, 10 LC	Wind: ASCE Vasd=103mp II; Exp C; En and C-C Exte 14-11-8, Exte to 34-10-0 zc vertical right MWFRS for 1 grip DOL=1.6 Provide adec This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar Bearings are or DSS, Joir Refer to girdd Bearing at jo using ANSI/T designer sho Provide mecl bearing plate 1, 384 lb upli 0) Graphical pu or the orienta bottom chorc DAD CASE(S)	7-10; Vult=130mp h; TCDL=6.0psf; closed; MWFRS (arior (2) 0-0-0 to 3 arior (2) 14-11-8 to one; cantilever left exposed; C-C for 1 reactions shown; 1 30 quate drainage to s been designed in chord in all area by 2-00-00 wide w y other members assumed to be: , t 10 SP 2400F 2. er(s) for truss to tr int(s) 10 consider: "P1 1 angle to gradity hanical connection capable of withst ft at joint 14 and 2 rlin representation tion of the purlin a Standard	oh (3-sec BCDL=6 envelope i-o-0, Inte o 23-2-7, and righ members Lumber I prevent to for a 10.0 with any for a 10.0 with any d for a liv is where ill fit betw Joint 14 0E or DS russ conr s parallel in formula y of bearing 3285 lb up n does no along the	sond gust) .0psf; h=25ft; s) exterior zon erior (1) 3-0-0 Interior (1) 2-0-0 Interior (1) 2 t exposed; e s and forces & DOL=1.60 pla water ponding 0 psf bottom other live loa e load of 20.0 a rectangle ween the botto SP 2400F 2. SS . to grain valu a. Building ng surface. ers) of truss t if tat joint 10. bt depict the s e top and/or	; Cat. ne 0 to 3-2-7 end & ate g. dds. Opsf om 0E to to size		Contraction of the second s		SEA 0363	RO 22 ER	annun an annun a
											11	CA. G	ILBE	per-



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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A11	Нір	1	1	Job Reference (optional)	171926203

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:47 ID:tnS_Cs5tME_RWJ9QrFHc7zzWN3?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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	7-3-8	14-9-12	19-1-4	26-3-8	33-11-0	
Scale = 1:87.2	7-3-8	7-6-4	4-3-8	7-2-4	7-7-8	_

Plate Offsets (X, Y): [5:0-4-0,0-1-9], [6:0-4-0,0-1-9], [10:0-5-4,Edge]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.77	Vert(LL)	-0.07	12-14	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.58	Vert(CT)	-0.16	12-14	>999	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.54	Horz(CT)	0.04	10	n/a	n/a			
BCDL	10.0	Code	IRC2015	5/TPI2014	Matrix-MS		Wind(LL)	0.08	17-20	>999	240	Weight: 207 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2-6-0 Structural wood shea 4-2-3 oc purlins, exc 2-0-0 oc purlins, exc 2-0-0 oc purlins (5-8 Rigid ceiling directly bracing. T-Brace: Fasten (2X) T and I web with 10d (0.131 3in minimum end dis	Vind: ASCE Vasd=103mg II; Exp C; En and C-C Exte 14-11-8, Exte to 34-10-0 zc vertical right MWFRS for n grip DDL=1.6 Provide adec All plates are This truss ha chord live loa * This truss ha on the botton 3-06-00 tall b chord and are Bearings are 10 SP No 2	SCE 7-10; Vult=130mph (3-second gust) 03mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. 2; Enclosed; MWFRS (envelope) exterior zone 2 Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to , Exterior (2) 14-11-8 to 23-2-7, Interior (1) 23-2-7)-0 zone; cantilever left and right exposed ; end right exposed; C- C for members and forces & 3 for reactions shown; Lumber DOL=1.60 plate L=1.60 adequate drainage to prevent water ponding. es are $3x6$ (=) MT20 unless otherwise indicated. ss has been designed for a 10.0 psf bottom ve load nonconcurrent with any other live loads. russ has been designed for a live load of 20.0psf pottom chord in all areas where a rectangle 1 tall by 2-00-00 wide will fit between the bottom nd any other members, with BCDL = 10.0psf. Is are assumed to be: , Joint 17 SP No.2 , Joint Vo.2. 0 girder(s) for truss to truss connections. 											
REACTIONS	Brace must cover 9 (size) 1= Mecha Max Horiz 1=-344 (L) Max Uplifit 1=-236 (L) 17=-110 (Max Grav 17=1239 (90% of web length. nical, 10=0-3-8, 17=(C 8) C 12), 10=-346 (LC 1 LC 12) C 23), 10=1209 (LC 2 (LC 2)	0-3-8 8) 9) 3), ^{0),} 10	Refer to girde Provide mech bearing plate 1, 110 lb upli) Graphical pu or the orienta	er(s) for truss to tru hanical connection capable of withsta ft at joint 17 and 34 rlin representation ation of the purlin al	ss conr (by oth Inding 2 I6 lb up does no long the	ections. ers) of truss to 36 lb uplift at lift at joint 10. ot depict the s top and/or	o joint iize			ALL ST	TH CA	ROL	;
FORCES	(lb) - Maximum Com	pression/Maximum		bottom chord	l. ·	Ū	•				22	OFER	N. X	1
TOP CHORD	1-3=-556/368, 3-5=- 6-8=-1098/479. 8-10	992/471, 5-6=-960/48)=-1411/472, 10-11=0	11 34,)/31) Warning: Add truss system	ditional permanent (not part of this con red	and sta mponer	bility bracing nt design) is	for				2	120	
BOT CHORD	1-17=-404/502, 15-1 14-15=-112/735, 12- 10-12=-262/1185	7=-338/502, 14=-249/1185,	LC	DAD CASE(S)	Standard					TH I I		SEA 0363	L 22	11111
WEBS	3-17=-960/245, 3-15 5-14=-154/400, 6-14 8-14=-717/389, 8-12	i=-87/580, 5-15=-168 =-120/312, ⊵=0/314	/111,							11.		A SNGIN	ERA	inne.
1) Unbalance	ad roof live loads have	been considered for									1	CA C	II BEIN	
this design	n.	been considered for										11111 G	min	

March 12,2025

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A12	Нір	1	1	Job Reference (optional)	171926204

9-7-3

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:48 ID:nSOU0va0O0U_nD33Ya_ScvzWN14-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3x8=

3x6=

Page: 1

3x8 II

2x4 🛛



	, 7-3-8	12-9-12	21-1-4	26-7-8	33-11-0
	7-3-8	5-6-4	8-3-8	5-6-4	7-3-8
Scale = 1:81.6		001	000	001	

3x6=

3x6=

2x4 II

Plate Offsets (X, Y): [4:0-4-0,0-1-0], [5:0-3-0,0-2-3], [9:0-5-4,Edge]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-MS	0.54 0.68 0.60	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.17 -0.30 0.04 0.09	(loc) 13-14 13-14 9 16-19	l/defl >999 >999 n/a >946	L/d 360 240 n/a 240	PLATES MT20 Weight: 205 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	2x4 SP No.2 *Excep 2x4 SP No.2 2x4 SP No.3 Left 2x4 SP No.3 - 2-6-0 Structural wood she 4-5-8 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 1= Mecha Max Horiz 1=-299 (L Max Uplift 1=-301 (L 16=-16 (L Max Grav 1=563 (LC 16=1070 (lb) - Maximum Com Tension 1-3=-714/437, 3-4=- 4-5=-1038/505, 5-7= 7-9=-1429/503, 9-10 1-16=-444/612, 14-1 13-14=-188/763, 11- 9-11=-274/1189 3-16=-881/171, 3-14 4-14=-223/201, 4-13 5-13=-77/344, 7-13= ed roof live loads have b.	t* 4-5:2x6 SP No.2 2-6-0, Right 2x4 SP N athing directly applied vept -0 max.): 4-5. applied or 8-11-5 oc 4-14 unical, 9=0-3-8, 16=0- C 10) C 12), 9=-341 (LC 13 C 9) 2 19), 9=-341 (LC 13 C 9) 1021/511, -1205/523, 1021/511, -1205/523, b=0/31 6=-384/612, 13=-274/1189, 3=-160/395, -537/334, 7-11=0/22 been considered for	2) lo.2 d or 3-8 5) 3), 6) 7) 8) 9) LC	Wind: ASCE Vasd=103mp II; Exp C; En and C-C Extt 12-11-8, Ext to 20-11-8, E 25-2-7 to 34- exposed ; en and forces & DOL=1.60 pl 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 Bearings are SP No.2 . Refer to gird(Provide mec bearing plate 1, 16 lb upliff Graphical pu or the orient bottom chorc DAD CASE(S)	7-10; Vult=130mp bh; TCDL=6.0psf; E closed; MWFRS (e erior (2) 0-0-0 to 3- erior (2) 12-11-8 to xterior (2) 20-11-8 10-0 zone; cantilev d vertical right exp MWFRS for reacti ate grip DOL=1.60 juate drainage to p s been designed for d nonconcurrent w has been d nonconcurrent w has been designed for d nonconcurrent w has been designed for d nonconcurrent w has been designed for d nonconcurrent w has been d nonconcurrent w has been d nonconcurre	h (3-sec 3CDL=6 anvelope 0-0, Inte 17-2-7, to 25-2 ver left a osed;C- ons sho or a 10.0 <i>i</i> th any for a liv is where I fit betw with BC Joint 16 iss conr (by oth unding 3 I lb uplif does no long the	ond gust) .0psf; h=25ft; e) exterior zor rior (1) 3-0-0 Interior (1) 1 7, Interior (1) C for membe wn; Lumber vater ponding 0 psf bottom other live loa e load of 20.0. a rectangle veen the bottt DL = 10.0psf SP No.2, Jo vections. ers) of truss t 01 lb uplift at t at joint 9. ot depict the s t op and/or	; Cat. ne to 7-2-7) ers g. ds. Opsf com f: int 9 size		Manana and a second sec		SEA 0363	ROLINI 22 EREALIN	Monunity
NOTES 1) Unbalance this design	ed roof live loads have h.	been considered for								11111			EP. K	unnun.

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G minin March 12,2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A13	Нір	1	1	Job Reference (optional)	171926205

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:48 ID:Nyp3g8No5_gI4CXYrkfikczWN03-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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	7-3-8	10-9-12	16-11-8	23-1-4	28-3-8	33-11-0
Scale – 1:76	7-3-8	3-6-4	6-1-12	6-1-12	5-2-4	5-7-8

Plate Offsets (X, Y): [4:0-4-0,0-1-9], [6:0-4-0,0-1-9], [9:0-5-4,Edge]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MS	0.52 0.59 0.53	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.06 -0.14 0.05 0.10	(loc) 17-20 17-20 9 17-20	l/defl >999 >618 n/a >895	L/d 360 240 n/a 240	PLATES MT20 Weight: 210 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SPF No.2(flat) Left 2x4 SP No.2 - 2-6-0 Structural wood sh 4-5-2 oc purlins, e: 2-0-0 oc purlins (5 Rigid ceiling direct bracino.	2-6-0, Right 2x4 SP N eathing directly applied ccept 5-3 max.): 4-6. y applied or 9-1-3 oc	1) 2) lo.2 d or 3)	Unbalanced this design. Wind: ASCE Vasd=103mp II; Exp C; En- and C-C Exte 10-11-8, Exte to 22-11-8, E 27-2-7 to 34- exposed ; en and forces & DOL=1.60 pl. Provide adeo	roof live loads hav 7-10; Vult=130mp h; TCDL=6.0psf; closed; MWFRS (erior (2) 0-0 to 3- arior (2) 10-11-8 to xterior (2) 22-11-8 10-0 zone; cantile d vertical right exp MWFRS for react ate grip DOL=1.6C juate drainage to p	e been (bh (3-sec BCDL=6 envelope -0-0, Inte) 15-2-7, to 27-2 ver left a posed;C- ions sho	considered fo ond gust) .0psf; h=25ft;)) exterior zor prior (1) 3-0-0 Interior (1) 1 -7, Interior (1) nd right C for member wn; Lumber water ponding	r ; Cat. ne to 5-2-7) ers g.						
WEBS REACTIONS	T-Brace: Fasten (2X) T and web with 10d (0.13 3in minimum end of Brace must cover (size) 1= Mech Max Horiz 1=-255 Max Uplift 1=-313 17=-148 Max Gray 1=541 (Size) 1=541 (Size) 1=541 (Size) 1=541 (Size) 1=541 (Size) 1=541 (Size) 1=542 (Size) 1=542 (Size	2x4 SPF No.2 - 5-15 5-13 I braces to narrow edg (1"x3") nails, 6in o.c.,w listance. 90% of web length. nanical, 9=0-3-8, 17=0- LC 8) LC 12), 9=-313 (LC 13 (LC 8) C. 19) 9=1172 (LC 1)	(, 4) ge of 5) ith 6) -3-8 6) 3), 8)	This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Bearings are SP No.2. Refer to girdd Provide mecl bearing plate	s been designed f d nonconcurrent v as been designed n chord in all area: y 2-00-00 wide wi y other members, assumed to be: , er(s) for truss to tri nanical connectior capable of withst	or a 10.0 with any l for a liv s where ll fit betw with BC Joint 17 uss conr n (by oth anding 3) psf bottom other live loa e load of 20.0 a rectangle veen the botto DL = 10.0psf SP No.2, Jo nections. ers) of truss t 13 lb uplift at	ds. Opsf om int 9 iont				ANNUM CA	Politic	
FORCES	17=1163 (lb) - Maximum Co	B (LC 2) mpression/Maximum	9)	Graphical pu or the orienta	rlin representation ition of the purlin a	does no along the	of depict the s top and/or	size			- AL	ORIEESE	DT N	11
TOP CHORD	1-3=-619/443, 3-4= 5-6=-1038/493, 6-7 7-9=-1515/499, 9-7	908/499, 4-5=-755/43 7=-1267/515, 10=0/31	39, 10	bottom chord) Warning: Add truss system	l. ditional permanent (not part of this co	and sta	bility bracing nt design) is	for		Ne construction		SEA		2
BOT CHORD	1-17=-438/549, 15 14-15=-263/1013, 11-13=-298/1206.	-17=-365/549, 13-14=-263/1013, 9-11=-298/1206	LC	DAD CASE(S)	Standard					11111		0363	22	nnn
WEBS	3-17=-950/229, 3- 4-15=-165/336, 5- 5-13=-197/225, 6- 7-13=-419/271, 7-	15=-301/661, 15=-772/283, 5-14=0/3 13=-99/397, 11=0/178	38,									A GING	ER	in the second se
NOTES												11111	inni	

March 12,2025



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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A14	Нір	1	1	Job Reference (optional)	171926206

Sca

Run; 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:48 ID:1LeISULzFaIPgVewXX5T_UzWN_p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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	7-3-8	0-9-12	16-11-8	25-1-4	33-11-0	
ale = 1:70.4	7-3-8	1-6-4	8-1-12	8-1-12	8-9-12	

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

													,
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		тс	0.47	Vert(LL)	-0.16	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.91	Vert(CT)	-0.36	13-15	>899	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.55	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2015	5/TPI2014	Matrix-MS		Wind(LL)	0.14	13-15	>999	240	Weight: 200 lb	FT = 20%
			1)	Unbalanced	roof live loads have	hoon	considered fo	r					
	2v4 SP No 2 *Except	+* 1-6-2v6 SP No 2	1)	this design		been		4					
BOT CHORD	2x4 SP No 2	1 4-0.2X0 OF NO.2	2)	Wind: ASCE	7-10: Vult=130mph	n (3-sec	ond aust)						
WERS	2x4 SP No 3		_/	Vasd=103mc	h: TCDL=6.0psf: B	CDL=6	.0psf: h=25ft:	Cat.					
OTHERS	2x4 SPF No 2(flat)			II; Exp C; En	closed; MWFRS (e	nvelope	e) exterior zor	ne					
SLIDER	Left 2x4 SP No.2 2	2-6-0. Right 2x4 SP N	0.2	and C-C Exte	erior (2) 0-0-0 to 3-0)-0, Inte	, erior (1) 3-0-0	to					
	2-6-0			8-11-8, Exter	ior (2) 8-11-8 to 13	-2-7, In	terior (1) 13-2	2-7 to					
BRACING				24-11-8, Exte	erior (2) 24-11-8 to	29-2-7,	Interior (1) 2	9-2-7					
TOP CHORD	Structural wood shea	athing directly applied	dor	to 34-10-0 zc	ne; cantilever left a	and righ	t exposed ; e	nd					
	3-9-11 oc purlins, ex	cept		vertical right	exposed;C-C for m	embers	and forces &	Š.					
	2-0-0 oc purlins (5-1)	0-10 max.): 4-6.		MWFRS for r	eactions shown; Lu	umber l	DOL=1.60 pla	ate					
BOT CHORD	Rigid ceiling directly	applied or 8-5-2 oc	0)	grip DOL=1.6									
	bracing.		3)	This trues he	uale drainage to p	revent v	valer ponding	J.					
WEBS	T-Brace:	2x4 SPF No.2 - 5-15,	, 4)	chord live los	d popconcurrent w	vith any	other live loa	de					
	E (0)0 E 11	5-11	(5)	* This truss h	as been designed	for a liv	e load of 20 (nsf					
	Fasten (2X) I and I	braces to narrow edg	ge of ^o	on the botton	h chord in all areas	where	a rectangle	por					
	Web with 10d (0.131	"X3") halls, bin o.c.,wi	Ith	3-06-00 tall b	y 2-00-00 wide will	fit betv	een the botto	om					
	Brace must cover 0	00% of wob longth		chord and an	y other members, v	with BC	DL = 10.0psf						
DEACTIONS	(aiza) 1- Macha		6)	Bearings are	assumed to be: , J	oint 16	SP No.2 , Jo	int 9					
REACTIONS	(SIZe) I= Mecha Max Horiz 1- 210 (L)	1110al, 9=0-3-0, 10=0-	3-0	SP No.2 .									
	Max 1 IDIIZ $1=-210$ (L)		, 7)	Refer to girde	er(s) for truss to tru	ss conr	ections.						
	16=-249 (L)	C 12), 9=-291 (LC 13 C 9)	9, 8)	Provide mech	nanical connection	(by oth	ers) of truss t	0				IIIIIII	1111.
	Max Grav 1=1134 (I	C(1) = 1352 (C(1)		bearing plate	capable of withsta	nding 2	49 lb uplift at	joint				IN'LY CA	ROUL
	16=283 (L	.C 1)	0)	1, 291 lb upli	it at joint 9 and 26 I	b uplift	at joint 16.				1	all	All's
FORCES	(lb) - Maximum Com	pression/Maximum	9)	Graphical pu	tion of the purlin al	ong the	top and/or	size			À.	O'.FESS	dig Vin
	Tension			bottom chord		ong the					15	12/1	
TOP CHORD	1-3=-1570/543, 3-4=	-1428/545,	10) Warning: Add	ditional permanent	and sta	bility bracing	for		- 4		2	K: 12
	4-5=-1166/497, 5-6=	-1340/516,		truss system	(not part of this co	mponer	nt design) is					OF A	r 1 E
	6-7=-1640/561, 7-9=	-1783/562, 9-10=0/31	1	always requir	èd.		0,			=		SEA	4 <u>8</u> 8 .
BOT CHORD	1-16=-400/1239, 15-	16=-400/1239,	LC	AD CASE(S)	Standard					1		0363	22 : =
	13-15=-474/1774, 11	-13=-474/1774,		(-)						-			; :
	9-11=-344/1419										-	1. Sec. 1. Sec	1 3
WEBS	3-15=-225/234, 4-15	=-116/464,	25								2.	N.ENG	CR. X S
	0-10=-000/337, 5-13	=0/400, 0-11=-063/33 - 224/222	55,								2	S, GIN	E. A.N
NOTEO	0-11=-120/370, 7-11	=-204/202									1	CA -	IL BEIN
NULES												11, A. G	IL
												<i></i>	TIT

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818 Soundside Road Edenton, NC 27932

March 12,2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A15	Нір	1	1	Job Reference (optional)	171926207

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:49 ID:YPiMuT3YyuRr?gcx0V5SwDzWMw0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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		7-3-8				
	6-9-12	13-6-15	20-4-1	27-1-4	33-11-0	
l	6-9-12	6-3-7	6-9-3	6-9-3	6-9-12	
		0-5-12				

Scale = 1:66.7

Plate Offsets (X, Y): [1:0-3-8,Edge], [3:0-4-0,0-1-9], [7:0-4-0,0-1-9], [9:0-5-4,Edge]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-MS	0.60 0.62 0.65	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.08 -0.17 0.07 0.11	(loc) 11-13 11-13 9 11-13	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 179 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SPF No.2(flat) Left 2x4 SP No.2 - 2 - 2-6-0 Structural wood shea 4-2-2 oc purlins, exc 2-0-0 oc purlins (4-3 Rigid ceiling directly bracing.	2-6-0, Right 2x4 SP N athing directly appliec ept -6 max.): 3-7. applied or 6-0-0 oc	2) lo.2 d or 3) 4) 5)	Wind: ASCE Vasd=103mp II; Exp C; End and C-C Exte 6-11-8, Exter 26-11-8, Exter 29-11-8 to 34 exposed ; en and forces & DOL=1.60 pil Provide adeq All plates are This truss ha	7-10; Vult=130mp h; TCDL=6.0psf; I closed; MWFRS (e rior (2) 0-0-0 to 3- ior (2) 6-11-8 to 9- rior (2) 26-11-8 to 9- rior (2) 26-11-8 to 1-0-0 zone; cantild d vertical right exp MWFRS for reacti- ate grip DOL=1.60 uate drainage to p 3x6 (=) MT20 un s been designed fr	h (3-sec BCDL=6 envelope 0-0, Inte 11-8, In 29-11-8 ever left osed;C- ons sho prevent v less oth- or a 10.0	ond gust) .0psf; h=25ft; e) exterior zor rior (1) 3-0-0 terior (1) 9-11 and right C for membe wn; Lumber vater ponding erwise indicat) psf bottom	Cat. ne to I-8 to rs g. ted.					
WEBS REACTIONS	T-Brace: Fasten (2X) T and I web with 10d (0.131 3in minimum end dis Brace must cover 9 (size) 1= Mecha Max Horiz 1=-166 (LI Max Uplift 1=-382 (LI 16=-487 (I	2x4 SPF No.2 - 4-16, 6-11 braces to narrow edg "x3") nails, 6in o.c.,wi tance. 0% of web length. nical, 9=0-3-8, 16=0- C 10) C 12), 9=-281 (LC 13 LC 8)	, 6) ge of ith 7) ³⁻⁸ 8) ;), 9)	* This truss h on the bottom 3-06-00 tall b chord and an Bearings are SP No.2. Refer to girde Provide mect bearing plate 1.487 b unlit	a nonconcurrent v as been designed a chord in all areas y 2-00-00 wide wil y other members. assumed to be: , , er(s) for truss to tru- nanical connection capable of withsta t at joint 16 and 2	for a liv s where I fit betw Joint 16 uss conr (by oth anding 3	e load of 20.0 a rectangle veen the botto SP No.2 , Joi nections. ers) of truss to 82 lb uplift at joint 9	as.)psf om int 9 o joint				mmm	11111
FORCES	Max Grav 1=479 (LC 16=1431 ((lb) - Maximum Com	C 19), 9=1144 (LC 1), (LC 24) pression/Maximum	10) Graphical put or the orienta bottom chord 	rlin representation tion of the purlin a	does no long the	ot depict the s top and/or	ize			A.	OR FESS	2. Million
TOP CHORD	Tension 1-3=-533/545, 3-4=-{ 6-7=-1139/493, 7-9=	524/536, 4-6=-1548/6 -1458/507, 9-10=0/31	11 557, 1) Warning: Add truss system always requir	ditional permanent (not part of this co red.	and sta	bility bracing nt design) is	for		y			
BOT CHORD	1-16=-414/469, 14-1 13-14=-407/1177, 11 9-11=-272/1150	6=-407/1177, -13=-436/1548,	LC	DAD CASE(S)	Standard					1111		0363	22
WEBS NOTES 1) Unbalanc	3-16=-397/232, 7-11 4-16=-1452/583, 4-1 6-13=-178/215, 6-11 ed roof live loads have	=-70/459, 4-14=0/256 3=-219/536, =-584/315 been considered for	6,									A. G	E.R. KIN

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818 Soundside Road Edenton, NC 27932

March 12,2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	A16	Hip Girder	1	2	Job Reference (optional)	171926208

Run; 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:50 ID:v_fpL2LflmvfL7IVnTWYmnzWMuL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

						34-10-0
4-11-8	10-10-10	16-11-8	23-0-6	28-11-8	33-11-0	1 1
4-11-8	5-11-2	6-0-14	6-0-14	5-11-2	4-11-8	1 1
						0-11-0
		33-1	1-0			



4-9-12	7-3-8	10-10-10	16-11-8	23-0-6	29-1-4	33-11-0
4-9-12	2-5-12	3-7-2	6-0-14	6-0-14	6-0-14	4-9-12

Scale = 1:61.6

Plate Offsets (X, Y): [1:0-5-8,Edge], [2:0-3-12,0-2-0], [7:0-3-12,0-2-0], [8:0-5-8,Edge]

Loading	(psf)	Spacing	2-0-0		CSI	0.07	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15			0.37	Vert(LL)	-0.11	13-14	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.84	Vert(CT)	-0.22	13-14	>999	240	MIZOHS	187/143	
BCLL	0.0	Rep Stress Incr	NO		WB	0.32	Horz(CT)	0.04	8	n/a	n/a			
BCDL	10.0	Code	IRC201	5/TPI2014	Matrix-MS		Wind(LL)	0.20	13-14	>999	240	Weight: 401 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD	2x4 SP No.2 2x6 SP No.2		1)	2-ply truss to (0.131"x3") n Top chords o	be connected tog ails as follows: connected as follo	gether wi ws: 2x4 -	th 10d 1 row at 0-9	-0	13) Use 14-1 left	Simpso 10dx1 1/ end to c	on Stro 2 Trus onnect	ng-Tie HTU26 (1 s) or equivalent t truss(es) to bac	0-16d Girder at 30-10-12 fi k face of bott	, rom the om
WFBS	2x4 SP No 2			oc.					cho	rd.		. ,		
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.	2		Bottom chore staggered at	ds connected as fo 0-9-0 oc.	ollows: 2:	x6 - 2 rows		14) Fill 15) "NA	all nail h ILED" ir	oles w ndicate	here hanger is ir s 3-10d (0.148"x	contact with 3") or 3-12d	lumber.
BRACING				Web connec	ted as follows: 2x4	4 - 1 row	at 0-9-0 oc.		(0.1	48"x3.2	5") toe	-nails per NDS g	uidlines.	
TOP CHORD	Structural wood s 6-0-0 oc purlins, e 2-0-0 oc purlins (6	neathing directly appl xcept 5-0-0 max.): 2-7.	ied or ²⁾	All loads are except if note CASE(S) see	considered equal ed as front (F) or b ction. Ply to ply co	ly applied back (B) f nnection	a to all plies, ace in the LC s have been	DAD	1) De Pla	CASE(S) ead + Ro ate Incre) Stai oof Live ase=1	ndard e (balanced): Lur .15	nber Increase	∋=1.15,
BOT CHORD	Rigid ceiling direc bracing.	tly applied or 10-0-0 o	DC O	provided to c unless other	listribute only load wise indicated.	Is noted	as (F) or (B),	_	Ur	iform Lo Vert: 1-2	oads (II 2=-60,	o/ft) 2-7=-60, 7-9=-60), 18-21=-20	
REACTIONS	(size) 1= Mec Max Horiz 1=-125 Max Uplift 1=-476 16=-93 Max Grav 1=1059 16=166	hanical, 8=0-3-8, 16= (LC 6) (LC 8), 8=-1011 (LC 2 (LC 5) (LC 1), 8=1931 (LC 2 (LC 18)	-0-3-8 ³⁾ 4), ⁴⁾ 1),	Unbalanced this design. Wind: ASCE Vasd=103mp II; Exp C; En cantilever lef	7-10; Vult=130mp bh; TCDL=6.0psf; closed; MWFRS (t and right expose	oh (3-sec BCDL=6 envelope d ; end v	considered to cond gust) .0psf; h=25ft; e) exterior zor rertical right	r ; Cat. ne;	Cc	oncentra Vert: 5= (B), 11= 7=-3 (B) (B), 24= 29=-3 (B	ted Lo; -3 (B), -110 (I , 12=- -58 (B 3), 30=	ads (Ib) 15=-110 (B), 17 B), 4=-3 (B), 13= 110 (B), 14=-110), 26=-3 (B), 27= -3 (B), 31=-3 (B)	=-110 (B), 10 -110 (B), 6=-3 (B), 3=-3 (B) -3 (B), 28=-3 (, 32=-3 (B), 3	=-110 3 (B), 1, 2=-3 (B), 34=-53
FORCES	(lb) - Maximum Co Tension	ompression/Maximum	n 5)	Provide adec	uate drainage to	prevent	vater ponding	g.		(B), 35= (B), 39=	:-112 (l :-110 (l	B), 36=-110 (B), B), 40=-110 (B),	37=-110 (B), 41=-110 (B),	38=-110 42=-131
TOP CHORD	1-2=-1084/536, 2- 3-4=-2397/1432, 4 6-7=-3709/2194, 7	3=-2397/1432, I-6=-3709/2194, 7-8=-2742/1542, 8-9=	6) 7) :0/31 8)	This truss ha	ad nonconcurrent	for a 10.0 with any) psf bottom other live loa	ds. Doef		(B)		mmm	11111	
BOT CHORD	1-17=-468/846, 16 14-16=-489/876, 12-13=-2271/3963 8-10=-1211/2245	6-17=-489/876, 3-14=-2271/3963, 3, 10-12=-1209/2233,	0)	on the bottor 3-06-00 tall b chord and ar	n chord in all area by 2-00-00 wide w by other members.	s where ill fit betv	a rectangle veen the botto	om			ALL	OPTH CA	ROUN	
WEBS	2-17=-800/567, 7-	10=-136/356, 12= 207/120	5)	SP No.2 .	assumed to be. ,	50111 10		int o				2	K.	
	6-12=-398/342, 7- 3-14=-392/339, 2- 4-14=-1760/1025	12=-1114/1844, 14=-1183/1940,	1(11	 Refer to girde Provide mec bearing plate 	er(s) for truss to tr hanical connection capable of withst	uss conr n (by oth anding 4	ections. ers) of truss t 76 lb uplift at	o i joint				SEA 0363	L 22	11111
NOTES				i, iu i i io up	and some and s	os∠ in up	int at joint 16.				- 2		- ÷	3

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

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

818 Soundside Road Edenton, NC 27932

G minin March 12,2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	B01	Common Supported Gable	1	1	Job Reference (optional)	171926209

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:50 ID:cip6yFaalaoQmrty?MwlorzWiE2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





	20-7-0	
Scale = 1:72		
Plate Offsets (X, Y): [2:Edge,0-0-6], [16:Edge,0-0-6], [26:0-2-8	2-0]	

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MS	0.06 0.07 0.16	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 168 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS WEDGE BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood sh 6-0-0 oc purlins. Rigid ceiling direct bracing. (eize) 2=20-7	eathing directly applie y applied or 10-0-0 oc	T(B(ed or c	OP CHORD	1-2=0/31, 2-3=-205, 1-5=-124/111, 5-6= 7-8=-159/179, 8-9= 10-11=-159/173, 11 12-13=-68/72, 13-1 15-16=-163/104, 16 2-31=-168/203, 30- 29-30=-123/203, 25 24-25=-123/203, 23 22-23=-123/203, 21 20-21=-123/203, 19	/161, 3- -110/11 -193/21 -12=-1 4=-72/5 -17=0/3 31=-12 -29=-1 -27=-1 -22=-1 -22=-1 -20=-1	-4=-143/126, 2, 6-7=-111/1 3, 9-10=-193/ 11/116, 55, 14-15=-88/ 31 3/203, 23/203, 23/203, 23/203, 23/203, 23/203, 23/203,	44, (213, (66,	 8) * Ti on 3-0 cho 9) All 10) Proba 2, 2 at j 25 at j 78 	his truss the botto 6-00 tall rd and a bearings vide me ring plat 0 lb upli bint 27, (b uplift a bint 23, 5 b uplift a	has be m cho by 2-0 ny oth are as chanic chanic c capa ft at joi 5 lb up tt joint 78 lb up tt joint	een designed for rd in all areas wf 0-00 wide will fit er members. ssumed to be SP al connection (by able of withstand int 16, 53 lb uplift at joint 28, 7' 30, 177 lb uplift at joint 22, 6 20, 30 lb uplift at	a live load of 20.0psf iere a rectangle between the bottom ' No.2 . / others) of truss to ing 61 lb uplift at joint t at joint 25, 76 lb uplift 9 lb uplift at joint 29, at joint 31, 48 lb uplift 5 lb uplift at joint 21, t joint 19, 166 lb uplift
REACTIONS	(Size) 2=20-7- 19=20-7 22=20-7 25=20-7 29=20-7 Max Horiz 2=-249 Max Uplift 2=-61 (L 18=-166 20=-78 22=-78 22=-78 25=-53 28=-65 30=-25	0, 16=20-7-0, 18=20-7-0, 21=20 -0, 23=20-7-0, 24=20 -0, 23=20-7-0, 24=20 -0, 30=20-7-0, 31=20 LC 10) C 8), 16=-20 (LC 9), (LC 13), 19=-30 (LC LC 13), 21=-65 (LC 1 LC 13), 23=-48 (LC 1 LC 12), 27=-76 (LC 1 LC 12), 29=-79 (LC 1 LC 12), 31=-177 (LC	 7-0, -7-0, -7-0, -7-0, -7-0 13), 1) 3), 2), 2), 12) 	VEBS 9 0 TES • Unbalanced this design. • Wind: ASCE Vasd=103mp II; Exp C; En	18-19=-123/203, 16 3-24=-162/108, 8-2 5-28=-105/84, 5-29 3-31=-146/119, 10- 12-21=-104/83, 13- 14-19=-94/74, 15-1 roof live loads have 7-10; Vult=130mpt sh; TCDL=6.0psf; E closed; MWFRS (e	5-18=-1: 5=-98/6 =-107/8 23=-93, 20=-10: 8=-147, e been o h (3-sec 8CDL=6 nvelope	23/203 19, 7-27=-113/ 36, 4-30=-94/7 (64, 11-22=-1 8/86, /117 considered for cond gust) 0.0psf; h=25ft; e) exterior zon	/92, '3, 13/93, Cat. ie	at j 16. LOAD	bint 18, (31 lb uj	ndard	20 lb uplift at joint
FORCES	Max Grav 2=190 (I 18=208 20=128 22=123 24=168 27=121 29=130 31=220 (Ib) - Maximum Co Tension	LC 20), 16=159 (LC 1 (LC 20), 19=88 (LC 1 (LC 20), 21=118 (LC (LC 20), 23=120 (LC (LC 13), 25=125 (LC (LC 13), 28=118 (LC (LC 19), 28=118 (LC (LC 19), 30=88 (LC 1) (LC 19) mpression/Maximum),), 20), 19), 19), 3), 3), 4) 5) 6) 7)	and C-C Cor 10-3-8, Corn to 21-6-0 zor vertical left a forces & MW DOL=1.60 pl Truss design only. For stu see Standarc or consult qu All plates are Gable requir Gable studs This truss ha chord live loa	ner (3) -0-11-0 to 2 er (3) 10-3-8 to 13- ne; cantilever left ar nd right exposed; C FRS for reactions s ate grip DOL=1.60 ed for wind loads in ids exposed to wind d Industry Gable Er alified building des 2x4 () MT20 unle es continuous botto spaced at 1-4-0 oc s been designed for ad nonconcurrent w	-3-8, Ex 3-8, Ex ad right -C for n shown; n the pla d (norm nd Deta igner as ess oth or chor or a 10.0 vith any	xterior (2) 2-3- terior (2) 13-3 exposed; enc, nembers and Lumber ane of the trus ial to the face) is as applicat s per ANSI/TP erwise indicate d bearing. 0 psf bottom other live load	8 to -8 d ss , , , , , , , , , , , , , , , , ,		V. annus		SEA 0363	L 22 E.E.P. H. IIIIIII

March 12,2025

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	B02	Common	2	1	Job Reference (optional)	171926210

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:50 ID:T7QUyYbmqibvYOAOlszl0mzWiFJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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	5-3-8	8-8-0	15-3-8	20-7-0	
Scale = 1:73.9	5-3-8	3-4-8	6-7-8	5-3-8	7

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	_
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.30	Vert(LL)	-0.06	8-10	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.25	Vert(CT)	-0.11	8-10	>999	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.46	Horz(CT)	0.02	6	n/a	n/a			
BCDL	10.0	Code	IRC2015/T	PI2014	Matrix-MS		Wind(LL)	0.04	8-10	>999	240	Weight: 148 lb	FT = 20%	
LUMBER			4) *	This truss h	as been designed	for a live	e load of 20.0	0psf						
TOP CHORE	2x4 SP No.2		, 0	n the bottom	n chord in all area	s where	a rectangle							
BOT CHORE	2x6 SP No.2		3	-06-00 tall b	y 2-00-00 wide w	ill fit betw	een the bott	om						
WEBS	2x4 SP No.3		c	hord and an	y other members	with BC	DL = 10.0pst	f.						
WEDGE	Left: 2x4 SP No.3		5) A	II bearings a	are assumed to be	SP No.	2.							
	Right: 2x4 SP No.3		6) P	rovide mech	hanical connection	n (by oth	ers) of truss t	to						
BRACING			b	earing plate	capable of withst	anding 2	33 lb uplift at	t joint						
TOP CHORE	Structural wood she	athing directly applie	ed or 2	and 233 lb	uplift at joint 6.									
	4-11-10 oc purlins.	• • • •	LOAD	D CASE(S)	Standard									
BOT CHORE	Rigid ceiling directly	applied or 10-0-0 or	b											
	bracing.													
REACTIONS	(size) 2=0-3-8, 6	6=0-3-8												
	Max Horiz 2=-249 (L	C 10)												
	Max Uplift 2=-233 (L	C 12), 6=-233 (LC 1	3)											
	Max Grav 2=878 (LC	C 1), 6=878 (LC 1)												
FORCES	(lb) - Maximum Com	pression/Maximum												
	Tension													
TOP CHORE) 1-2=0/31, 2-3=-1112	2/280, 3-4=-1279/49	1,											
	4-5=-1278/490, 5-6=	-1110/280, 6-7=0/3	1											
BOT CHORE	2-10=-256/1020, 8-1	0=-78/635, 6-8=-11	5/862											
WEBS	3-10=-404/343, 5-8=	-404/343,												
	4-10=-321/680, 4-8=	-320/679											111.	
NOTES												White CA	Dalle	
1) Unbalan	ced roof live loads have	been considered for	r								15	"ath on	TOL !!!	
this desig	gn.									/	S	OFFESS	ich i	
Wind: AS	SCE 7-10; Vult=130mph	(3-second gust)								4	è è	120	N. T	-
Vasd=10	3mph; TCDL=6.0psf; B	CDL=6.0psf; h=25ft;	Cat.							-	2/	:0	nin	-
II; Exp C	; Enclosed; MWFRS (er	velope) exterior zon	e							-	е <u>к</u>			-
and C-C	Exterior (2) -0-11-0 to 2	-1-0, Interior (1) 2-1-	-0 to								:	SEA	L :	1
10-3-8, E	xienur (2) 10-3-8 to 13-	-3-δ, interior (1) 13-3	0-0 -							=	:	0363	22 :	
10 21-6-0	o zone; cantilever left and	C for mombors and	u							1		0303		-
forces 8	MW/ERS for reactions of	bown: Lumber									e			-
DOI = 1.6	30 plate arin DOI = 1.60	nown, Lumber								S	-	·	air	3
3) This true	s has been designed for	r a 10.0 nsf hottom									15	NGINE	E	2
chord live	a load nonconcurrent wi	th any other live load	de								11.	7/0	THEY N	

DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.

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G minin March 12,2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	B03	Common	4	1	Job Reference (optional)	171926211

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:51 ID:7igS1Txy?cFoXsuyyR_ZhtzWiEs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



1	5-3-8	8-8-0	15-3-8	20-7-0
Scale = 1:73.9	5-3-8	3-4-8	6-7-8	5-3-8

Plate Offsets (X, Y): [2:Edge,0-0-6], [6:Edge,0-0-6], [7:0-3-8,0-2-0], [9:0-3-8,0-2-0]

Loading TCLL (roof) TCDL BCLL	(psf) 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.30 0.25 0.47	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.11 0.02	(loc) 7-9 7-9 6	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190	
BCDL	10.0	Code	IRC2015	5/TPI2014	Matrix-MS		Wind(LL)	0.04	7-9	>999	240	Weight: 146 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood shea	athing directly appli	4) 5) 6) ed or	* This truss h on the bottor 3-06-00 tall b chord and ar All bearings a Provide mec bearing plate 2 and 203 lb	has been designed in chord in all area: by 2-00-00 wide wi by other members, are assumed to be hanical connectior capable of withst uplift at joint 6.	I for a liv s where II fit betw with BC e SP No. a (by oth anding 2	e load of 20. a rectangle veen the bott :DL = 10.0ps 2 . ers) of truss :34 lb uplift a	Opsf tom .f. to t joint						
BOT CHORD	4-11-10 oc purlins. Rigid ceiling directly bracing.	applied or 10-0-0 o	C	AD CASE(S)	Standard									
REACTIONS	(size) 2=0-3-8, 6 Max Horiz 2=242 (LC Max Uplift 2=-234 (LC Max Grav 2=880 (LC	5=0-3-8 C 9) C 12), 6=-203 (LC 1 C 1), 6=822 (LC 1)	3)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum												
TOP CHORD	1-2=0/31, 2-3=-1114 4-5=-1278/494, 5-6=	/281, 3-4=-1281/49 1118/294	2,											
BOT CHORD WEBS	2-9=-270/1011, 7-9= 3-9=-404/343, 5-7=- 4-7=-324/687	-92/626, 6-7=-142/8 404/344, 4-9=-320/6	363 379,										11.	
NOTES												N''LL CA	Dille	
 Unbalance this design 	ed roof live loads have n.	been considered fo	r								5	RTHUA	50Linter	_
2) Wind: AS Vasd=103	CE 7-10; Vult=130mph 3mph: TCDL=6.0psf: B0	(3-second gust) CDL=6.0psf: h=25ft:	Cat.							4		UT T	V.	2

trins design.
Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-3-8, Exterior (2) 10-3-8 to 13-3-8, Interior (1) 13-3-8 to 20-7-0 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
This truss has been designed for a 10.0 psf bottom

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

SEAL 036322 A. GILBER March 12,2025

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	B04	Common Girder	1	2	Job Reference (optional)	171926212

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:51 ID:7igS1Txy?cFoXsuyyR_ZhtzWiEs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



	5-3-8	10-3-8	15-3-8	20-7-0	_
Scale = 1:73.9	5-3-8	5-0-0	5-0-0	5-3-8	
Plate Offsets (X_Y): [2:Edge 0-0-6] [6:Edge 0-0-6] [8:0-4-0 0-4-4]					

	(A, T). [2.Euge,0-0-0],	[0.Euge,0-0-0], [0.0-2	+-0,0-4-4]										
Loading TCLL (roof) TCDL BCLL BCDL	(psf) Spacing 2-0-0 CSI DEFL in (loc) //defl L 20.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) -0.09 8-10 >999 3 10.0 Lumber DOL 1.15 BC 0.85 Vert(CT) -0.16 8-10 >999 2 0.0* Rep Stress Incr NO WB 0.41 Horz(CT) 0.03 6 n/a r 10.0 Code IRC2015/TPI2014 Matrix-MS Wind(LL) 0.12 8-10 >999 2									L/d 360 240 n/a 240	PLATES MT20 Weight: 258 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORI BOT CHORI WEBS WEDGE BRACING TOP CHORI BOT CHORI BOT CHORI BOT CHORI BOT CHORI BOT CHORI WEBS	 2x4 SP No.2 2x6 SP No.2 2x4 SP No.2 Left: 2x6 SP No.2 Left: 2x6 SP No.2 Right: 2x6 SP No.2 Structural wood she 5-5-9 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 6 Max Horiz 2=242 (LC Max Uplift 2=-1379 (Max Grav 2=3021 (L (Ib) - Maximum Com Tension) 1-2=0/31, 2-3=-4538 4-5=-3376/1643, 5-6 2-10=-1802/3766, 8-7-8=-1638/3335, 5-8 5-7=-450/698, 3-8=-3-10=-582/1175 	athing directly applied applied or 10-0-0 oc 3=0-3-8 C7) LC 8), 6=-1551 (LC 9 .C 1), 6=3474 (LC 1) pression/Maximum 0/2130, 3-4=-3354/164 5=-4121/2033 -10=-1802/3766, i=-1585/3356 3=-897/669, 1271/761,	3) 4) ^{I or} 5) 6))7) 8) 41,9) 10)	Unbalanced i this design. Wind: ASCE Vasd=103mp II; Exp C; Enric cantilever lefir right exposed This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Provide mech bearing plate joint 2 and 15 Use Simpsor 14-10d Truss connect truss) Use Simpsor 20-10dx1 1/2 spaced at 4-C end to 19-10	roof live loads hav 7-10; Vult=130mp h; TCDL=6.0psf; I closed; MWFRS (r and right expose t; Lumber DOL=1. s been designed f d nonconcurrent v as been designed n chord in all area: y 2-00-00 wide wi y other members. are assumed to be nanical connection capable of withst 51 lb uplift at joini o strong-Tie HTU2) or equivalent at (s(s) to back face 1 Strong-Tie HTU2 Truss, Single Ply)-0 oc max. startin 12 to connect trus	te been of bh (3-sec BCDL=6 enveloped d ; end 60 plate for a 10.0 with any i for a liv s where ll fit betw SP No. h (by oth anding 1 t 6. 26-2 (20- 5-1-0 fic 5-1-0 fic of bottor 26 (10-16 Girder) 19 g at 7-0 ss(es) to	considered fo cond gust) .0psf; h=25ft; e) exterior zor ertical left an grip DOL=1.1 D psf bottom other live load e load of 20.0 a rectangle veen the bottom 2. ers) of truss t 379 lb uplift a 10d Girder, m the left end n chord. 3d Girder, or equivalent 4 from the le	r ; Cat. ne; dd 60 ds. 0psf om o at d to				TH CA	ROM
 2-ply tru: (0.131^{sx} Top cho oc. Bottom of staggere Web cor All loads except if CASE(S provided unless o 	ss to be connected toget 3") nails as follows: rds connected as follows: chords connected as follows d at 0-9-0 oc. nnected as follows: 2x4 - are considered equally noted as front (F) or bar) section. Ply to ply conr to distribute only loads therwise indicated.	ther with 10d s: 2x4 - 1 row at 0-9-0 ows: 2x6 - 2 rows - 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LOA tections have been noted as (F) or (B),	11) 12) LO 1)	 Use Simpsor 14-10dx1 1/2 end to conne Fill all nail ho PAD CASE(S) Dead + Roc Plate Increa Uniform Loc Vert: 1-4: Concentratte Vert: 7=-4 17=-270 (B), 21=-5 	A Strong-Tie HTU2 Truss) or equival ct truss(es) to bac les where hanger Standard of Live (balanced): ise=1.15 ads (lb/ft) =-60, 4-6=-60, 11- id Loads (lb) 446 (B), 10=-1039 (B), 18=-1114 (B), o (B), 22=-9 (B)	26 (10-10 ent at 9- k face o is in cor Lumber 14=-20 (B), 16= 19=-48	d Girder, 0-4 from the I f bottom chor ttact with lumi Increase=1. ⁻ =-898 (B), 3 (B), 20=-52 ⁻	left rd. ber. 15, 5		(Webballow)		SEA 0363	ER. K. 1111

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A MiTek Aff 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	C01	Roof Special Girder	1	3	Job Reference (optional)	171926213

Scale = 1:51.7

Run; 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:51 ID:X71qizmjMZe16V1oj149WazWhVJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Plate Offsets (X, Y): [1:Edge,0-3-14], [4:0-5-4,0-2-8], [5:0-3-12,0-2-0], [6:Edge,0-4-1], [9:0-4-4,0-1-8], [10:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	0-0 CSI DEFL						l/defl	L/d	PLATES	GRIP			
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.48	Vert(LL)	-0.10	8-9	>999	360	MT20	244/190			
TCDL	10.0	Lumber DOL	1.15		BC	0.75	Vert(CT)	-0.20	8-9	>999	240					
BCLL	0.0*	Rep Stress Incr	NO		WB	0.63	Horz(CT)	0.05	6	n/a	n/a					
BCDL	10.0	Code	IRC2015	5/TPI2014	Matrix-MS		Wind(LL)	0.13	8-9	>999	240	Weight: 342 lb	FT = 20%			
					-			-				, v				
LUMBER			2)	All loads are	considered equally	y applied	d to all plies,		14) Fill	all nail h	oles w	here hanger is in	contact with lu	mber.		
FOP CHOP	RD 2x4 SP No.2			except if note	d as front (F) or b	ack (B) 1	ace in the LC	DAD	15) "NA	ALED" in	dicate	s 3-10d (0.148"x3	3") or 3-12d			
BOT CHOF	RD 2x6 SP No.2 *Excep	t* 11-6:2x6 SP 2400)F	CASE(S) sec	tion. Ply to ply cor	nection	s have been		(0.146 x3.25) toe-nails per NDS guidlines.							
	2.0E or 2x6 SP DSS			unless otherwise indicated												
WEBS	2x4 SP No.2		3)	Unbelanced roof live loads have been considered for 1) Dead + Roof Live (balanced): Lumber In-									ber Increase=	1.15,		
WEDGE	Left: 2x6 SP NO.2		5)	this design		e been (onsidered to	1	Pi	ate Incre	ase=1	.15				
	Right: 2x8 SP 2400F	- 2.0E OF D55	4)	Wind ASCE	7-10: Vult=130mp	h (3-sec	ond aust)		Ur	Niform Lo	bads (II	D/TC)	F 7 00 40 4	0 00		
		- de la se allas a de sistema lla	י) 	Vasd=103mr	h TCDI = 6.00 sf	3CDI =6	Opsf: h=25ft	Cat	0	vert: 1	3=-60,	3-4=-60, 4-5=-60	, 5-7=-60, 13-1	6=-20		
IOP CHOP	C O O oo nurling ave	athing directly applie	ed or	II: Exp C: En	closed: MWFRS (e	envelope	e) exterior zor	ne:	C	Dincentra	ted Lo	ads (ID)	a) an 4000 (١		
	2.0.0 oc purlins, exc			cantilever left	and right exposed	d; end v	ertical left an	d		ven: 10	=-1337	(D), 10=-1333 (E	5), ∠0=-1330 (t	5), 2200		
	2-0-0 00 putititis (0-0 P Rigid ceiling directly	applied or 10-0-0 or	^	right exposed	l; Lumber DOL=1.	60 plate	grip DOL=1.	60		(B) 25-	ס (ם), ₋/ו21 (ו	ZZ=-1337 (D), Z3 E) 26201 (E)	=-1337 (D), 24	=-2209		
	hracing		6							(D), 23-	-421 (1), 20=-201 (1)				
	(cizo) 1-0-3-8 6	3-0-3-8	5)	Provide adeo	uate drainage to p	prevent v	vater ponding] .								
	Max Horiz 1=-160 (1)	C 4)	6)	This truss ha	s been designed fo	or a 10.0) psf bottom									
	Max Liplift 1=-1865 ((0, 0)	9)	chord live loa	d nonconcurrent v	vith any	other live loa	ds.								
	Max Grav 1=6945 (I	C(1) = 6 = 5450 (1 C 1)) 7)	* This truss h	as been designed	for a liv	e load of 20.0)psf								
	(lb) Maximum Com		/	on the botton	n chord in all areas	s where	a rectangle									
FORGES		ipression/maximum		3-06-00 tall b	y 2-00-00 wide wil	I TIT DETW	een the botto	om								
	2D 1-2=-8464/2338 2-3	8=-7267/2126	0)	Rearings are	y other members.	nint 1 CE	No 2 loint	6								
	3-4=-7250/2101, 4-5	=-7023/2645.	0)	SP 2400F 2 (DE or DSS	JIIILI JI	NO.2 , JOIN	0								
	5-6=-8335/3070, 6-7	/=0/31	9)	Provide mech	nanical connection	(by oth	ers) of truss t	0								
BOT CHOF	RD 1-12=-1925/6937, 10	0-12=-1925/6935,	0)	bearing plate	capable of withsta	anding 1	865 lb uplift a	at					in the			
	9-10=-3284/10917, 8	8-9=-3331/11077,		joint 1 and 20	06 lb uplift at joint	6.						TH UA	ROUL			
	6-8=-2408/6790		10) Graphical pu	rlin representation	does no	t depict the s	size			N	A SPEC	Ja In!			
WEBS	2-12=-314/1442, 2-1	0=-1210/391,		or the orienta	tion of the purlin a	long the	top and/or			/	52	FESS	Min In	1_		
	3-10=-2211/7694, 4-	-10=-6716/2397,		bottom chord						4			20.1	-1		
	4-9=-915/3111, 4-8=	-4835/1033,	11) Use Simpsor	Strong-Tie HTU2	6 (20-10	d Girder,			-		.4	N	-		
	5-8=-1618/4521			11-10dx1 1/2	Truss) or equivale	ent spac	ed at 1-5-0 o	С		-		SEA	L 🗼	=		
NOTES				max. starting	at 13-3-4 from the	e left end	I to 14-8-4 to			Ξ		02/1		8		
 3-ply tr 	uss to be connected toget	ther with 10d	10	connect truss	e(es) to front face of	of botton	n chord.			Ξ		0363	22	-		
(0.131"	x3") nails as follows:	0.4.4	12) Use Simpsor	Truce) or equival	0 (10-16	od of 2 0 0 c	•			0		1	1		
I op ch	ords connected as follows	s: 2x4 - 1 row at 0-9-	0	14-100X1 1/2	at 0-8-4 from the	ent spac	eu al 2-0-0 0	C			1	1. A	- · ·	2		
OC. Rottom	chards connected as falls	OWE: 246 2 FOR		connect trues	(As) to back face	of bottor	n chord				20	NOINE	Enix	5		
DOLLOIN	red at 0.5.0 oc	UWS. 2X0 - 3 10WS	13) Use Simpsor	Strong-Tie HTU2	6-2 (20-	10d Girder				1	ALC: GIN	THE AN			
Sidyyei	eu al 0-0-0 00.		10	, 555 51119301		0 2 (20	roa ciraci,				/		. LAV			

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

- connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss) or equivalent at 12-7-8 from the left end to connect truss(es) to back face of bottom chord.

March GILB

March 12,2025

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818 Soundside Road Edenton, NC 27932

С

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	CJ1	Diagonal Hip Girder	4	1	Job Reference (optional)	171926214

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:51 ID:mbZ8NIj_ktq5iTtxejEFBnzWiLc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.7

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

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 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	5/TPI2014	CSI TC BC WB Matrix-MP	0.20 0.17 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.02 -0.01 -0.01	(loc) 5-8 5-8 2	l/defl >999 >999 n/a	L/d 240 240 n/a	PLATES MT20 Weight: 21 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP No 2x4 SP No Left 2x6 S Structural 4-0-11 oc Rigid ceilin bracing.	o.2 o.2 P No.2 2 wood shea purlins. ng directly	-6-0 athing directly applie applied or 10-0-0 oc	7) L 1) d or	In the LOAD of the truss a OAD CASE(S) Dead + Roo Plate Increa Uniform Loa Vert: 1-2: Trapezoidal Vert: 2=0	CASE(S) section, I re noted as front (F Standard of Live (balanced): I ise=1.15 ads (lb/ft) =-60 Loads (lb/ft) (F=30, B=30).to-7.	oads ap F) or ba Lumber =-11 (F	epplied to the ck (B). Increase=1.	face 15, 7=-11					
REACTIONS	(size) Max Horiz Max Uplift Max Grav	2=0-4-9, 4 Mechanica 2=139 (LC 2=-107 (LC 5=-1 (LC 1 2=144 (LC (LC 3)	= Mechanical, 5= al : 12) C 12), 4=-81 (LC 12) 2) : 1), 4=67 (LC 1), 5=	, 55	(F=25, B: B=15)-to to-8=-4 (I B=0)	=25)-to-3=-30 (F=1 -4=-61 (F=0, B=0), F=8, B=8), 8=-4 (F=	5, B=15 6=0 (F= =8, B=8	s), 3=-30 (F= =10, B=10)-)-to-5=-20 (F	=15, ==0,					
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: AS(Vasd=103 II; Exp C; cantilever right expo	(lb) - Maxi Tension 1-2=0/33, 2-5=-130/3 CE 7-10; Vul Bmph; TCDL= Enclosed; M left and righ sed; Lumber	mum Com 2-4=-122/1 37 t=130mph =6.0psf; BC WFRS (en t exposed ; DOL=1.60	03 (3-second gust) CDL=6.0psf; h=25ft; velope) exterior zon- end vertical left anc plate grip DOL=1.6	Cat. e; I 0							G		TH CA	ROUNT
 This truss chord live * This truss on the bot 3-06-00 ta chord and Bearings a Refer to g Provide m bearing pl 4, 107 lb to 	has been de load noncor is has been o tom chord in all by 2-00-00 index of the are assumed irder(s) for t hechanical co ate capable uplift at joint 3	esigned for current with designed for all areas v wide will f embers. to be: , Jo russ to trus onnection (of withstan 2 and 1 lb	a 10.0 psf bottom h any other live load or a live load of 20.0 where a rectangle it between the botton int 2 SP No.2. ss connections. by others) of truss to ding 81 lb uplift at jo uplift at joint 5.	ls. osf m int							CONTRACTOR OF STREET		SEA 03632	22 E.B.E.K.

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March 12,2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	D01	Common Supported Gable	1	1	Job Reference (optional)	171926215

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:52 ID:6zBYFm6LW3CSWGEZ28UZuazWhOQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



			L								
Scale = 1:49.6									1		
Plate Offsets (X, Y): [1]	2:Edge,0-3-1	1]									
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	(

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	015/TPI2014	CSI TC BC WB Matrix-MS	0.06 0.03 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 87 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS SLIDER	2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N Left 2x4 S	lo.2 lo.2 lo.3 SP No.2 1	I-5-3, Right 2x4 SP 1	No.2	WEBS	7-18=-111/57, 6-1 4-21=-108/84, 3-2 9-16=-112/89, 10- 11-14=-132/105	9=-101/7 2=-128/1 15=-108/	'9, 5-20=-112/ 16, 8-17=-10 ′84,	/88, 1/75,	LOAD C	ASE(S)) Sta	Indard		
BRACING TOP CHORD	1-5-3 Structura 6-0-0 oc	l wood shea purlins.	athing directly applie	ed or	 Unbalanced this design. Wind: ASCE Vasd=103mp 	7-10; Vult=130mp bh; TCDL=6.0psf;	ve been o oh (3-seo BCDL=6	considered for cond gust) copsf; h=25ft;	r Cat.						
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 oc	0	II; Exp C; En and C-C Cor	closed; MWFRS (ner (3) -0-11-0 to	envelope 2-1-0, Ex	e) exterior zor (terior (2) 2-1-	ne -0 to						
REACTIONS	(size) Max Horiz Max Uplift Max Grav	2=13-2-8, 15=13-2-8 18=13-2-8 2=167 (LC 2=-66 (LC 14=-105 (16=-74 (L 19=-62 (L) 21=-63 (L) 2=155 (LC 14=120 (L 18=128 (L) 20=120 (L 22=135 (L)	12=13-2-8, 14=13-2 8, 16=13-2-8, 17=13- 3, 19=13-2-8, 20=13- 8, 22=13-2-8 C 11) 8), 12=-20 (LC 9), LC 13), 15=-64 (LC C 13), 17=-59 (LC 12 C 12), 22=-119 (LC C 20), 12=128 (LC 1) C 20), 12=128 (LC 1) C 20), 15=121 (LC 2) C 20), 17=121 (LC 2) C 20), 17=126 (LC 2) C 22), 19=126 (LC 2) C 19), 21=120 (LC 2) C 19), 21=120 (LC 2)	2-8, -2-8, -2-8, 3), 2), 12) , 20), 20), 19), 19),	 6-7-4, Cornet 14-1-8 zone; vertical left a forces & MW DOL=1.60 pl 3) Truss design only. For stuse e Standarro or consult qu 4) All plates are 5) Gable requiri 6) Gable studes 7) This truss ha chord live loz 8) * This truss log on the bottom 	r (3) 6-7-4 to 9-7-4 cantilever left and nd right exposed; (FRS for reactions ate grip DOL=1.6 led for wind loads ids exposed to wind l Industry Gable E alified building de 2 x4 () MT20 ur es continuous bott spaced at 1-4-0 o is been designed ad nonconcurrent tas been designed in chord in all area	4, Exteric d right ex C-C for n s shown; 0 in the pli- nd (norm and Deta signer as signer as neless oth- tom chor c. for a 10.0 with any d for a liv s where ill fit how	or (2) 9-7-4 to posed ; end nembers and Lumber ane of the trus at to the face) ils as applicat s per ANS//TF erwise indicat d bearing. D psf bottom other live load e load of 20.0 a rectangle	ss), ble, Pl 1. ed. ds. lpsf				ORTH CA	ROLIN	
FORCES	(lb) - Max Tension	kimum Com	pression/Maximum		chord and ar	by other members			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		11		70		
TOP CHORD BOT CHORD	1-2=0/31 4-5=-86/8 7-8=-138 10-11=-5 2-22=-76 20-21=-7 18-19=-7 16-17=-7	, 2-3=-40/52 38, 5-6=-98/ /160, 8-9=-! 1/38, 11-12 /121, 21-22 6/121, 19-2 6/121, 17-1 6/121, 15-1	2, 3-4=-101/96, (121, 6-7=-138/160, 98/112, 9-10=-51/54 =-27/37, 12-13=0/31 =-76/121, 0=-76/121, 6=-76/121,	l, 1	 All bearings Provide mec bearing plate 2, 20 lb uplift at joint 20, 6 59 lb uplift at joint 15, 105 20 lb uplift at 	are assumed to be hanical connection e capable of withst a t joint 12, 62 lb of 3 lb uplift at joint 2 joint 17, 74 lb upl lb uplift at joint 14 joint 12.	e SP No. n (by oth anding 6 uplift at jo 1, 119 lb lift at join , 66 lb u	2. ers) of truss to 6 lb uplift at jo bint 19, 73 lb 0 uplift at joint t 16, 64 lb upl blift at joint 2 a	o pint uplift 22, lift at and		TITUAN.		SEA 0363	L 22 EER ALU	
	14-15=-7	6/121, 12-1	4=-76/121		 Beveled plat surface with 	e or shim required truss chord at join	l to provi it(s) 2, 23	de full bearing 3.	9				A. G		

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	D02	Common	2	1	Job Reference (optional)	171926216

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:52 ID:054XHjES1AclF8?K9iuQ_EzWiDC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Plate Offsets (X, Y): [1:0-3-8,Edge], [5:0-5-4,Edge]

Scale = 1:50.9

										-				
Loading	(ps	f)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.	0	Plate Grip DOL	1.15		тс	0.52	Vert(LL)	-0.06	7-10	>999	360	MT20	244/190
TCDL	10.	0	Lumber DOL	1.15		BC	0.43	Vert(CT)	-0.09	7-10	>999	240		
BCLL	0.	0*	Rep Stress Incr	YES		WB	0.11	Horz(CT)	-0.04	1	n/a	n/a		
BCDL	10.	0	Code	IRC2015/	TPI2014	Matrix-MS		Wind(LL)	0.09	7-10	>999	240	Weight: 60 lb	FT = 20%
				E)				n						
				5) 6)	All bearings a	are assumed to be	SP NO.	∠. ore) of truce :	to					
	2X4 SP N0.2			0)	hearing plate	canable of withsta	anding 1	28 lb unlift at	t ioint					
	2x4 SP N0.2				1 and 159 lb	unlift at joint 5	anding i	20 10 00111 0	John					
SLIDER	Left 2v4 SP No 1	2 2-	6-0 Right 2v4 SP N			Standard								
2-6-0														
BRACING														
TOP CHORD	Structural wood	shea	thing directly applied	d or										
	6-0-0 oc purlins.													
BOT CHORD	Rigid ceiling dire bracing.	ectly a	applied or 10-0-0 oc											
REACTIONS	(size) 1=0-3	-8. 5=	=0-3-8											
	Max Horiz 1=-16	0 (LC	2 10)											
	Max Uplift 1=-12	8 (LC	2 12), 5=-159 (LC 13	3)										
	Max Grav 1=526	6 (ÌC	1), 5=585 (LC 1)	,										
FORCES	(lb) - Maximum (Comp	pression/Maximum											
	Tension													
TOP CHORD	1-3=-555/207, 3	-5=-5	49/202, 5-6=0/31											
BOT CHORD	1-7=-305/430, 5	-7=-2	08/430											
WEBS	3-7=0/290													
NOTES														
 Unbalance 	ed roof live loads h	ave b	been considered for											1111
2) Wind: ASC	ו. ► 7-10י \/ult–130י	mnh ((3-second quet)										MAH CA	Roite
Vasd-103	mph: TCDI -6 0ps	f BC	DI -6 Onst h-25ft (Cat								1	A	D. Chile
	Enclosed: MWERS	s (env	(elope) exterior zone	9 9							/	~ >	FESO	PN. Si
and C-C E	xterior (2) 0-0-0 to	3-0-0	0, Interior (1) 3-0-0 t	0							4	0		Cherry .
6-7-4, Exte	erior (2) 6-7-4 to 9-	-7-4, 1	Interior (1) 9-7-4 to								-		.4-	N 1 1 2
14-1-8 zon	ne; cantilever left a	nd rig	ght exposed ; end								Ξ	1	SEA	L 1 E
vertical left	t and right expose	d;C-C	for members and								=		0000	
forces & M						1	- :	0363	22 : :					
DOL=1.60 plate grip DOL=1.60											-	8		1
3) I his truss	nas been designe	d for a	a 10.0 pst bottom								3	2	·	all S
 cnora IIVe * This truck 	ioau nonconcurrer	it With	r a live load of 20 or	S. vef								24	NGINE	ENAN
on the bott	tom chord in all ar		here a rectande	101								11,	7/0	allin
3-06-00 ta	ll by 2-00-00 wide	will fi	t between the bottor	n									11. A. G	ILDIN
chord and	any other membe	rs.											111111	11111

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	D03	Common	2	1	Job Reference (optional)	171926217

Run; 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:52 ID:gPo3opNzCs72h_wesD5ETmzWiD0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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	6-7-4	13-2-8	
ſ	6-7-4	6-7-4	
Scale = 1:46.5			

Vate Offsets (X, Y): [1:0-3-8,Edge], [5:0-5-4,Edge]												
Loading	(psf)	Spacing	2-0-0	CSI	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.52	Vert(LL)	-0.06	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.04	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	6-9	>999	240	Weight: 58 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP No.	2
BOT CHORD	2x4 SP No.	2
WEBS	2x4 SP No.	3
SLIDER	Left 2x4 SF	P No.2 2-6-0, Right 2x4 SP No.2
	2-6-0	
BRACING		
TOP CHORD	Structural v	wood sheathing directly applied or
	6-0-0 oc pu	urlins.
BOT CHORD	Rigid ceilin	g directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size) 1	1=0-3-8, 5= Mechanical
	Max Horiz 1	1=147 (LC 9)
	Max Uplift 1	1=-129 (LC 12), 5=-129 (LC 13)
	Max Grav 1	1=528 (LC 1), 5=528 (LC 1)
FORCES	(lb) - Maxin	num Compression/Maximum
	Tension	
TOP CHORD	1-3=-555/2	08, 3-5=-555/208
BOT CHORD	1-6=-316/4	23, 5-6=-232/423
WEBS	3-6=0/290	

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-7-4, Exterior (2) 6-7-4 to 9-7-4, Interior (1) 9-7-4 to 13-2-8 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
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf
- 4) 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.

- 5) Bearings are assumed to be: Joint 1 SP No.2
- Refer to girder(s) for truss to truss connections. 6)
- 7) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 129 lb uplift at joint
- 1 and 129 lb uplift at joint 5.
- LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	E01	Hip Girder	1	2	Job Reference (optional)	171926218

Run; 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:52 ID:IBoNVdRDis8PogyomOURdmzWhPI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:53.8

Loa	ding		(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCL	L (roof)		20.0	Plate Grip DOL	1.15		тс	0.37	Vert(LL)	-0.05	7-13	>999	360	MT20	244/190	
TCE	DL		10.0	Lumber DOL	1.15		BC	0.94	Vert(CT)	-0.09	7-13	>999	240			
BCL	L		0.0*	Rep Stress Incr	NO		WB	0.37	Horz(CT)	0.03	4	n/a	n/a			
BCE	DL		10.0	Code	IRC20	15/TPI2014	Matrix-MS		Wind(LL)	0.06	7-13	>999	240	Weight: 145 lb	FT = 20%	
		-												····g····		
LUN	IBER				4) Wind: ASCE	7-10; Vult=130mp	h (3-sec	ond gust)		Co	ncentrat	ted Lo	ads (lb)		
TOF	CHORD	2x4 SP No.2				Vasd=103mp	oh; TCDL=6.0psf;	BCDL=6	.0psf; h=25ft	; Cat.		Vert: 2=·	-63 (B), 3=-63 (B), 7=-3	9 (B), 6=-2328	
BOT	CHORD	2x6 SP No.2				II; Exp C; En	closed; MWFRS (e	envelope	e) exterior zo	ne;		(F=-228	9, B=-	39), 15=-63 (B), 1	7=-1337 (F),	
WE	BS	2x4 SP No.2				cantilever lef	t and right expose	d ; end v	ertical left ar	nd		18=-129	(B), 1	9=-1337 (F), 20=	-1337 (F), 21=-3	39
WEI	DGE	Left: 2x8 SP	2400F 2	2.0E or DSS		right exposed	d; Lumber DOL=1.	.60 plate	grip DOL=1.	.60		(B), 22=	-129 (B)		
		Right: 2x6 SF	P No.2		_											
BRA	ACING				5) Provide adec	uate drainage to p	orevent v	vater pondin	g.						
TOF	P CHORD	Structural wo	ood shea	athing directly applied	dor 6) This truss ha	s been designed f	or a 10.0) psf bottom							
		5-2-1 oc purl	ins, exce	ept	_	chord live loa	ad nonconcurrent v	with any	other live loa	ads.						
		2-0-0 oc purl	ins (6-0-	0 max.): 2-3.	1) * This truss h	as been designed	I for a liv	e load of 20.	Opst						
BOT	CHORD	Rigid ceiling	directly	applied or 10-0-0 oc		on the botton	n chord in all area	s where	a rectangle							
		bracing.				3-06-00 tall t	y 2-00-00 wide wi	II TIT DETV	leen the bott	om						
REA	CTIONS	(size) 1=	0-3-8, 4	=0-3-8	c) All boorings	iy other members.		2							
		Max Horiz 1=	-120 (LC	C 6)	c c) All bearings a	are assumed to be	OF INU.	\angle .	to						
		Max Uplift 1=	-1517 (L	LC 8), 4=-1413 (LC 9)) ⁸) Provide med	nanical connection	n (by our anding 1	412 lb unlift	iU ot						
		Max Grav 1=	4593 (L	C 1), 4=3319 (LC 1)		ioint 4 and 14	517 lb unlift at ioint	anung i + 1		ai						
FOF	RCES	(lb) - Maximu	um Comi	pression/Maximum	1	0) Graphical pu	rlin representation	does no	t depict the	size						
		Tension				or the orienta	ation of the purlin a	alona the	top and/or	0120						
TOF	P CHORD	1-2=-5170/19	914, 2-3	=-3994/1782,		bottom chore	l									
		3-4=-4800/20	049, 4-5	=0/31	1	1) Use Simpsor	n Strong-Tie HTU2	26 (10-16	6d Girder.							
BOT	CHORD	1-7=-1557/42	265, 6-7	=-1584/4388,		14-10dx1 1/2	2 Truss) or equival	ent spac	ed at 2-0-0 c	C						
		4-6=-1616/38	396			max. starting	at 1-4-12 from the	e left end	to 5-4-12 to)					11	
WE	BS	2-7=-688/303	31, 2-6≕	-686/141, 3-6=-928/2	2421	connect trus	s(es) to front face	of botton	n chord.					1111 CA	E l'II	
NOT	TES				1	2) Use Simpsor	n Strong-Tie HTU2	26-2 (20-	10d Girder,					TH UA	ROIL	
1)	2-ply truss	to be connect	ed toget	her with 10d		14-10d Truss	s) or equivalent at	7-4-0 frc	m the left en	id to			5	n'ires	D. SIAM	
	(0.131"x3") nails as follow	vs:			connect truss	s(es) to front face	of botton	n chord.			/	22	GFEU	N. S	-
	Top chord	s connected as	s follows	: 2x4 - 1 row at 0-9-0) 1	Use Simpsor	n Strong-Tie HTU2	26 (10-16	6d Girder,			4	D		2 de la	
	OC.					14-10dx1 1/2	2 Truss) or equival	ent spac	ed at 6-4-8 c	DC 00		-	1	.4	· · ·	-
	Bottom ch	ords connected	d as follo	ows: 2x6 - 2 rows		max. starting	at 3-0-4 from the	left end	to 9-4-12 to			-		SEA		=
	staggered	at 0-4-0 oc.				connect truss	s(es) to back face	of bottor	n chord.			=		000		Ξ.
	Web conn	connected as follows: 2x4 - 1 row at 0-9-0 oc.				14) Fill all nall holes where hanger is in contact with lumber. 036322										Ξ
2)	All loads a	ads are considered equally applied to all plies,				5) "NAILED" INC	licates 3-10d (0.14	48°X3°) C	or 3-120				0		4	2
	except if n	oted as front (F	-) or bac	ck (B) face in the LOA	۹D	(0.148"X3.25) toe-nails per NL	5 guidli	nes.			-	-	N	a .!.	2
	CASE(S)	section. Ply to p	ply conn	ections have been	L	OAD CASE(S)	Standard						20	N. SNOW	Et. X.	2
	provided to	o distribute only	y loads r	noted as (F) or (B),	1) Dead + Roo	of Live (balanced):	Lumber	Increase=1.	15,			1	P/ GIN	1. 43°	
2)	Unless oth	erwise indicate	90. Jahavi - '	haan aanaidana 14		Plate Increa	ase=1.15							A C	II BEIN	
3)	Unbalance	eu root live load	us nave l	been considered for		Uniform Loa	ads (ID/It)							1117. G	in in it	
	uns aesigr	n.				Vert: 1-2:	=-60, 2-3=-60, 3-5	=-60, 8-	11=-20					201111	Tree	

March 12,2025

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	JA1	Jack-Open	26	1	Job Reference (optional)	171926219

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:53 ID:4TYezmDi4T_G7mVpYqTsLQzWiKz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.5

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

Lacding (nd) (nd) (nd) (nd) (nd) (nd) (nd) (nd)														
 Too Pool (1990) 2013 Pool (1990) Provide the provided of the provide mechanical connection. Frovide mechanical connection (by others) of truss to truss connections. Frovide mechanical connection (by others) of truss to truss connections. Frovide mechanical connection (by others) of truss to truss connections. Frovide mechanical connection (by others) of truss to truss connection. Frovide mechanical connection (by others) of truss to truss connections. Frovide mechanical connection (by others) of truss to truss connection. Frovide mechanical connection (by others) of truss to truss connection. Frovide mechanical connection (by others) of truss to truss connection. CoAD CASE(S) Standard Standard Standard Max Upilt 2-29 (LC 12), 5-65 (LC 12), 6-71 (LC 19), 6=149 (LC 19), 6=149 (LC 19), 5-e5 (LC 12), 6-73 (LC 10), 5-e5 (LC 12), 6-74 (LC 19), 6=149 (LC 19), 5-e5 (LC 10), 5-e5 (LC 10), 6-24-3 (LC 10), 5-e5 (LC 10), 6-24-4 (LC	Loading TCLL (roof) TCDL BCLL BCDI	(psf) 20.0 10.0 0.0 10.0	* Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI201/	CSI TC BC WB Matrix-MP	0.10 0.19 0.06	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.03 0.00	(loc) 6-9 6-9 2 6-9	I/defI >999 >999 n/a ⊳999	L/d 360 240 n/a 240	PLATES MT20	GRIP 244/190	
 LUMBER to CP CHORD 2x4 SP No.2 5) Refer to grider(6) for truss to fuses connections. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withistanding 65 b uplit at joint 6. LOAD CASE(5) Standard BRACING TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc putitions. BOT CHORD Rigid celling directly applied or 10-0-0 oc bracing. REACTIONS (size) 2-0-3.8, 5= Mechanical, 6= Mechanical Max Horiz 2-197 (LC 12). Max Horiz 2-197 (LC 12). FORCES (b) Maximum Compression/Maximum Tension TOP CHORD 2-6-761191 Weiss 4-6-2421172 Nortes 4-10-2020, 2-46-05/44 BOT CHORD 2-6-1761191 Weiss 4-6-2421172 Nortes 50, 0-11-0 to 2-4-4, Interior (1) 2-4-4 to 4-10-12 zone; canteline of trans shore, Lumber zone; canteline of trans the distance of trans and right exposed; c-C to remembers and forces & MWPRS for reactions shore, Lumber Zone; canteline of trans the dough of the loads. 4) Bearings are assumed to be: , Joint 2 SP No.2. 	DODL	10.0	Code	11(02013/11/201	F IVIAUIX-IVII		Wind(LL)	0.00	0-3	2333	240	Weight. 27 ib	11 = 2076	
chord and any other members. 4) Bearings are assumed to be: , Joint 2 SP No.2 . March 12,2025	LUMBER TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD WEBS NOTES 1) Wind: ASC Vasd=103 II; Exp C; I and C-C E 4-10-12 zc vertical lef forces & M DOL=1.60 2) This truss chord live 3) * This trus on the bot	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left 2x4 SP No.2 Structural wood s 4-11-8 oc purlins Rigid ceiling direc bracing. (size) 2=0-3- Mecha Max Horiz 2=197 Max Uplift 2=-29 6=-73 Max Grav 2=258 (LC 19 (lb) - Maximum C Tension 1-2=0/31, 2-4=-31 2-6=-176/191 4-6=-242/172 CE 7-10; Vult=130rr imph; TCDL=6.0psf Enclosed; MWFRS Exterior (2) -0-11-0 to ne; cantilever left a t and right exposed IWFRS for reaction 0 plate grip DOL=1.6 has been designed load nonconcurrent s has been designed tom chord in all are Il w 2.200 suido	2-6-0 heathing directly applied ctly applied or 10-0-0 c 8, 5= Mechanical, 6= nical (LC 12), LC 12), 5=-65 (LC 12) (LC 12), 5=-65 (LC 12) (LC 12), 5=71 (LC 19),) ompression/Maximum 02/0, 4-5=-65/44 uph (3-second gust) ; BCDL=6.0psf; h=25ft (envelope) exterior zo o 2-4-4, Interior (1) 2-4 (envelope) exterior zo o 2-4 (envelope	5) Refer to 6) Provide bearing 5, 29 lb LOAD CAS ied or bc), 6=149 1 4-4 to 1 ads. Opsf	e girder(s) for truss to t mechanical connectio plate capable of withs uplift at joint 2 and 73 E(S) Standard	russ con n (by oth tanding 6 lb uplift a	viniti(LL) nections. ers) of truss t 55 lb uplift at j it joint 6.	to oint	0-9	2999	240	VYEGIL 2715 OR THE CA OR SEA 0363	L 22 EEER.	Manning
	chord and 4) Bearings a	any other members are assumed to be:	s. , Joint 2 SP No.2 .									March	12 2025	
													,	

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A MITEK Atfiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime				
4619349	JA2	Jack-Open	3	1	Job Reference (optional)	171926220			

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:53 ID:Nva?jQ7IPWRddlkDR4JStEzWiJo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.16	Vert(LL)	-0.02	6-9	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.20	Vert(CT)	-0.04	6-9	>999	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.04	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code	IRC2015/TP	12014	Matrix-MP		Wind(LL)	0.01	6-9	>999	240	Weight: 26 lb	FT = 20%	_
	2v4 SD No 2		5) * T	his truss h	as been designed	d for a live	e load of 20.0	Opsf						
	2x4 SF NU.2		3-0	16-00 tall h	v 2-00-00 wide w	ill fit hetw	een the bott	om						
WERS	2x4 SF N0.2 2x4 SP No.3		ch	ord and an	v other members			0111						
SLIDER	Left 2x4 SP No 2 2	2-6-0	6) Be	arings are	assumed to be: ,	Joint 2 S	P No.2 .							
BRACING			7) Re	efer to girde	er(s) for truss to t	russ coni	nections.							
TOP CHORD	Structural wood she	athing directly applie	dor 8) Pro	ovide mech	nanical connectio	n (by othe	ers) of truss t	to						
	4-11-8 oc purlins, ex	cept	be 5,	aring plate 65 lb uplift	capable of withs at joint 2 and 42	tanding 3 Ib uplift a	9 lb uplift at j t joint 6.	oint						
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	9) Gr	aphical put	rlin representation tion of the purlin	n does no along the	t depict the s top and/or	size						
REACTIONS	(size) 2=0-3-8, 5 Mechanica	i= Mechanical, 6= al	bo LOAD	ttom chord CASE(S)	Standard									
	Max Horiz 2=125 (LC	2 12)												
	Max Uplift 2=-65 (LC	12), 5=-39 (LC 8), 6	6=-42											
	(LC 12)													
	Max Grav 2=258 (LC (LC 1)	21), 5=58 (LC 1), 6=	:132											
FORCES	(lb) - Maximum Com Tension	pression/Maximum												
TOP CHORD	1-2=0/31, 2-4=-319/6	6, 4-5=-1/2												
BOT CHORD	2-6=-140/93												(1)	
WEBS	4-6=-144/126											N''LL CA	Dille	
NOTES											1	TH UA	TO UL	
1) Unbalance	ed roof live loads have	been considered for									1	O CESS	Con Alter	
this desig	n.										S R	15	Things	
2) Wind: AS	CE 7-10; Vult=130mph	(3-second gust)	o .							Z		10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	and!	
Vasd=103	Smph; TCDL=6.0pst; B0	DL=6.0pst; h=25ft;	Cat.							-				
II; Exp C;	Enclosed; MWFRS (en	velope) exterior zon	e 0 to							=	:	SEA	L : =	
2-11-8 E	(2) -0 - 1 - 0 + 0 - 2	-1-0, Intenor (1) 2-1- 0-12 zone: cantileve	r left							Ξ.		0363	22 =	
and right (exposed · end vertical l	eft and right expose	1.C-									. 0505	i S	
C for men	nbers and forces & MW	FRS for reactions	4,0									N	1 5	
shown; Lu	umber DOL=1.60 plate	grip DOL=1.60								5		NGINE	ERIAN	
3) Provide a	dequate drainage to pre	event water ponding									11	710	BELIN	
4) This truss	has been designed for	a 10.0 psf bottom										11, A. G	ILLIN	
chord live	load nonconcurrent wit	th any other live load	ls.									in min	unit.	



March 12,2025

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	JA3	Jack-Open	3	1	Job Reference (optional)	171926221

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:53 ID:Oj9HQskkPBsOE781wHkPS_zWiJ?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

C?f



-0-11-0 | 4-11-8 | 4-0-0

0-11-0









Scale = 1:33.8

Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.31 0.22	DEFL Vert(LL) Vert(CT)	in -0.01 -0.03	(loc) 5-8 5-8	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 244/190
BCDL	10.0	Code	IRC2015/	TPI2014	vvв Matrix-MP	0.06	Wind(LL)	0.00	4 5-8	n/a >999	n/a 240	Weight: 25 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left 2x4 SP No.2 1 Structural wood shea 4-11-8 oc purlins: 3-4. Rigid ceiling directly bracing. (size) 2=0-3-8, 4 Mechanica Max Horiz 2=53 (LC Max Uplift 2=-61 (LC	-2-13 athing directly applied cept applied or 10-0-0 oc = Mechanical, 5= al 12) 12), 4=-79 (LC 8)	6) 7) 8) 9) d or LO	Bearings are Refer to girde Provide mech bearing plate 4 and 61 lb u Graphical puu or the orienta bottom chord AD CASE(S)	assumed to be: , , rr(s) for truss to tr nanical connection capable of withsta plift at joint 2. lin representation tion of the purlin a Standard	Joint 2 S russ con In (by oth anding 7 does no long the	P No.2 . nections. ers) of truss t 9 lb uplift at j ot depict the s top and/or	o oint iize					
	Max Grav 2=257 (LC (LC 3)	C 1), 4=118 (LC 1), 5	=107										
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=103 II; Exp C; I and C-C E exposed ; members a Lumber DO 3) Provide ad 4) This truss chord live 5) * This truss on the bott 3-06-00 tal chord and	(lb) - Maximum Comp Tension 1-2=0/31, 2-3=-237/1 2-5=-108/163 3-5=-167/109 ed roof live loads have b. EF 7-10; Vult=130mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (en xterior (2) zone; cantile end vertical left and rig and forces & MWFRS (en the comparison of the comp lequate drainage to pre has been designed for load nonconcurrent with s has been designed for toom chord in all areas w II by 2-00-00 wide will f any other members.	pression/Maximum I37, 3-4=-3/1 been considered for (3-second gust) CDL=6.0psf; h=25ft; velope) exterior zone ever left and right ght exposed;C-C for for reactions shown; L=1.60 event water ponding. a 10.0 psf bottom th any other live load or a live load of 20.0p where a rectangle fit between the bottor	Cat. e s. osf m							Wannun		SEA 0363	

March 12,2025

ENGINEERING BY A MITEK AMILIATE 818 Soundside Road Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	JA4	Jack-Open Girder	1	1	Job Reference (optional)	171926222

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:53 ID:1Zxf4albZJfsmCftdyYCJhzWilH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-0-11-0 2-11-8 4-11-8 2-11-8 2-0-0 0-11-0 4-11-8 12 8 Г 4x6 = 5 4 3x6 🍫 3 2-9-2 7-9-0 6 1 11 6 3x6 II 3x4 = 4-11-8 4-10-5 ╉ 4-10-5 0-1-3

Scale = 1:34.9

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

2-11-3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.02	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.04	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.02	6-9	>999	240	Weight: 26 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left 2x4 SP No.2 2 Structural wood she 4-11-8 oc purlins; e-5 Rigid ceiling directly bracing. (size) 2=0-3-8, 5 Mechanic Max Horiz 2=132 (LC Max Uplift 2=-100 (I	2-6-0 athing directly applie ccept applied or 10-0-0 oc 5= Mechanical, $6=alC$ 8) C 8) C 8) $5=-39$ (1 C 4)	5) * This trus on the bo 3-06-00 ta chord and 6) Bearings 7) Refer to g 9) Provide m bearing p 5, 100 lb 10) Graphical or the oric bottom ch 11) Hanger(s provided s	is has been designe tom chord in all are all by 2-00-00 wide we any other members are assumed to be: irder(s) for truss to irder(s) for truss to echanical connection ate capable of withs uplift at joint 2 and 1 purlin representation on the purlin ord. or other connection sufficient to support	ed for a livi as where vill fit betv s. , Joint 2 § truss conr truss con n (by oth standing 3 02 lb uplii on does no along the n device(s concentra	e load of 20. a rectangle veen the bott SP No.2 . nections. nections. ers) of truss 19 lb uplift at it at joint 6. ot depict the e top and/or) shall be ated load(s) S	0psf om to joint size 97 lb					
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this desigr 2) Wind: ASG Vasd=103 II; Exp C; cantilever right expo: 3) Provide ad 4) This truss chord live	6=-102 (L Max Grav 2=274 (LC (LC 15) (lb) - Maximum Com Tension 1-2=0/31, 2-4=-324/ 2-6=-132/93 4-6=-147/132 ed roof live loads have b. CE 7-10; Vult=130mph imph; TCDL=6.0psf; B Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr has been designed foi load nonconcurrent wi	C 8) C 15), 5=58 (LC 1), 6 pression/Maximum 126, 4-5=0/0 been considered for (3-second gust) CDL=6.0psf; h=25ft; ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding r a 10.0 psf bottom th any other live load	down and down and design/se responsib 12) In the LO, of the trus LOAD CASE(1) Dead + 1 Plate Ind Uniform Vert: - Concent Vert: - e; 50	71 lb up at 2-11-8 40 lb up at 2-11-8 lection of such conr ility of others. AD CASE(S) sectior s are noted as front S) Standard Roof Live (balanced rease=1.15 Loads (lb/ft) I-4=-60, 4-5=-60, 6- rated Loads (lb) 4=-15 (B), 11=-17 (E	on top ch on bottorn lection de n, loads al : (F) or ba): Lumber 7=-20 3)	ord, and 43 I n chord. The vice(s) is the oplied to the ck (B). Increase=1.	face 15,		Manna and and and and and and and and and		SEA 0363	L L L L L L L L L L L L L L L L L L L

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TRENGINEERING BY A MiTek Affiliate

818 Soundside Road Edenton, NC 27932

March 12,2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	JA5	Jack-Open	4	1	Job Reference (optional)	171926223

-0-11-0

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:53 ID:7quS_H_nYebzLrY9xKdP4PzWiLG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:30.6

Loading		(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.15		тс	0.15	Vert(LL)	0.01	5-8	>999	240	MT20	244/190	
TCDL		10.0	Lumber DOL	1.15		BC	0.09	Vert(CT)	-0.01	5-8	>999	240			
BCLL		0.0*	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.00	2	n/a	n/a			
BCDL		10.0	Code	IRC2015	/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%	
				6)	Provide med	hanical connecti	ion (by othe	ere) of trues t	to					-	
	2x4 SP N	0.2		0)	bearing plate	capable of with	standing 8	4 lb uplift at i	ioint						
BOT CHORD	2x4 SP N	0.2			4, 24 lb uplift	at joint 2 and 3	lb uplift at	joint 5.							
SLIDER	Left 2x4 S	SP No.2 2	2-6-0	LO	AD CASE(S)	Standard									
BRACING															
TOP CHORD	Structural	wood she	athing directly applie	ed or											
	2-11-8 oc	purlins.													
BOT CHORD	Rigid ceili	ng directly	applied or 10-0-0 or	0											
	bracing.														
REACTIONS	(size)	2=0-3-8, 4	I= Mechanical, 5=												
	Max Llavia	Mechanic													
	Max Horiz	2=128 (LC	> 12) • 12)	E 2											
	Max Oplin	2=-24 (LC (I C 12)	, 12), 4=-04 (LC 12),	, 5=-3											
	Max Grav	2=180 (LC	C 1), 4=91 (LC 19), 5	5=50											
		(LC 3)	,, - (,, -												
FORCES	(lb) - Max	imum Com	pression/Maximum												
	Tension														
TOP CHORD	1-2=0/31,	2-4=-169/	66												
30T CHORD	2-5=-108/	89													
NOTES															
 Wind: AS 	CE 7-10; Vu	lt=130mph	(3-second gust)												
Vasd=103	Smph; TCDL	=6.0psf; B	CDL=6.0psf; h=25ft;	Cat.										111.	
II; Exp C;	Enclosed; IV	100 FRS (er	ivelope) exterior zor										White CA	Dalle	
2-10-12 7	ne: cantile	0-11-0102 or left and	right exposed : end	-0 10								1	"aTH UN	TO 111	
vertical let	ft and right e	vnosed C-	C for members and									ا جمير	OTTESS	DAN'S	6

forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom 2)

chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 3) 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 . 4)

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



SEAL 036322

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	JA6	Jack-Open Girder	1	1	Job Reference (optional)	171926224

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:53 ID:peTYuyoxgDyvofsx4mJ20YzWiHd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:34.9

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

		_		_										
Loading	((psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	2	20.0	Plate Grip DOL	1.15		TC	0.14	Vert(LL)	-0.01	6-9	>999	360	MT20	244/190
TCDL	1	10.0	Lumber DOL	1.15		BC	0.13	Vert(CT)	-0.01	6-9	>999	240		
BCLL		0.0*	Rep Stress Incr	NO		WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	1	10.0	Code	IRC20	15/TPI2014	Matrix-MP		Wind(LL)	0.01	6-9	>999	240	Weight: 21 lb	FT = 20%
LUMBER				5) * This truss h	as been designed	d for a liv	e load of 20.	0psf					
TOP CHORD	2x4 SP No.2				on the bottor	n chord in all area	s where	a rectangle	•					
BOT CHORD	2x4 SP No.2				3-06-00 tall b	y 2-00-00 wide wi	ill fit betv	veen the bott	tom					
WEBS	2x4 SP No.3				chord and ar	y other members.								
SLIDER	Left 2x4 SP N	lo.2 2	-6-0	6) Bearings are	assumed to be: ,	Joint 2 S	SP No.2 .						
BRACING				7) Refer to gird	er(s) for truss to tr	uss conr	nections.						
TOP CHORD	Structural wo	od shea	athing directly applie	dor ⁸) Refer to gird	er(s) for truss to t	russ con	nections.						
	3-7-8 oc purli	ns, exc	ept	9) Provide mec	hanical connection	n (by oth	ers) of truss	to					
	2-0-0 oc purli	ns: 4-5.			5 65 lb uplift	at joint 2 and 227	anding i / Ib.uplift	2 ID UPIIIT at	joint					
BOT CHORD	Rigid ceiling o	directly	applied or 10-0-0 oc	;	0) Graphical pu	rlin representation	n does n	at joint 0.	size					
	bracing.			'	or the orienta	ation of the purlin a	alona the	e top and/or	5120					
REACTIONS	(size) 2=0	0-3-8, 5	= Mechanical, 6=		bottom chord	l.								
	Mey Lleria O d			1	1) Hanger(s) or	other connection	device(s) shall be						
	Max Horiz 2=	132 (LC	, 8) 9) 5- 12 (IC 4) 6-	227	provided suff	icient to support c	oncentra	ated load(s) §	92 lb					
		-03 (LC ~ 8)	0), 5=12 (LC 4), 0=	-221	down and 80	lb up at 2-11-8 o	n top ch	ord, and 52 l	b					
	Max Grav 2=2	222 (I C	: 15) 5=18 (I C 1) 6	=277	down and 34	lb up at 2-11-8 o	n botton	h chord. The	•					
	(LC	C 15)			design/selec	tion of such conne	ection de	vice(s) is the	•					
FORCES	(lb) - Maximu	m Com	pression/Maximum			Of others.	loodo o		60.00					
	Tension			I	 In the LOAD of the truce of 	CASE(S) Section,	(E) or ba		lace					
TOP CHORD	1-2=0/31, 2-4	=-169/8	35, 4-5=0/0			Stondard	(F) 01 Da	ск (В).						
BOT CHORD	2-6=-112/46			1		Stanuaru	Lumbo	Incrosso-1	15					11.5
WEBS	4-6=-214/210)		1	Plate Increa		Lumber	Increase=1.	.10,				11111 00	2111
NOTES					Uniform Los	ads (lb/ft)							ITH UA	Roin
1) Unbalanc	ed roof live load	s have	been considered for		Vert: 1-4	=-60, 4-5=-60, 6-7	′=-20					A	A SECO	The Inde
this desig	n.				Concentrate	ed Loads (lb)					/	53	FEE	NI Sig
2) Wind: AS	CE 7-10; Vult=13	30mph	(3-second gust)		Vert: 4=-	95 (F), 11=-27 (F)					4	D		BILL
Vasd=103	3mph; TCDL=6.0	0psf; B0	CDL=6.0psf; h=25ft;	Cat.		()/					-	()		
II; Exp C;	Enclosed; MWF	RS (en	velope) exterior zon	e;							-		SEA	Liti
cantilever	left and right ex	(posed)	end vertical left and								=	:	0262	22 : 2
right expo	sea; Lumber DC	JL=1.60	plate grip DOL=1.6	0							1		0303	22 <u>;</u> :
3) Provide a	dequate drainag	ne to pre	went water nonding								-	9		1 - S
4) This truss	has been desig	aned for	a 10.0 psf bottom	•								1	·	Airis

chord live load nonconcurrent with any other live loads.

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A. GILBE

A. GILBER March 12,2025

C



Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	JA7	Jack-Closed Girder	1	1	Job Reference (optional)	171926225

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:54 ID:z5Mr6HUhY7i?k7yJFYloC9zWiBa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-2-7

Page: 1

3-7-8 3-7-8 2x4 II 8 F 2 3-2-7

1

2-9-0



HTU26



Scale = 1:36

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.01	3-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.03	3-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI20	14 Matrix-MP		Wind(LL)	0.02	3-6	>999	240	Weight: 19 lb	FT = 20%
LUMBER			8) Use S	impson Strong-Tie HT	FU26 (20-16	6d Girder.						
TOP CHORD	2x4 SP No.2		11-10	dx1 1/2 Truss) or equi	valent at 2-	0-12 from th	e left					
BOT CHORD	2x6 SP No.2		end to	connect truss(es) to I	back face o	f bottom cho	ord.					
WEBS	2x4 SP No.2		9) Fill all	nail holes where hang	ger is in cor	ntact with lum	nber.					
WEDGE	Left: 2x4 SP No.3		10) In the	LOAD CASE(S) section	on, loads a	oplied to the	face					
BRACING			of the	truss are noted as fro	nt (F) or ba	ck (B).						
TOP CHORD	Structural wood shea	athing directly appli	ed or LOAD CA	SE(S) Standard								
	3-7-8 oc purlins, exe	cept end verticals.	1) Dead	d + Roof Live (balance	ed): Lumber	Increase=1	.15,					
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	c Plate	Increase=1.15								
	bracing.		Unifo	orm Loads (Ib/ft)								
REACTIONS	(size) 1=0-3-8, 3	B= Mechanical	Ve	P(1: 1-2=-60, 3-4=-20)								
	Max Horiz 1=121 (LC	C 8)	Conc									
	Max Uplift 1=-53 (LC	8), 3=-186 (LC 8)	Ve	en. 7=-506 (D)								
	Max Grav 1=346 (LC	C 1), 3=441 (LC 1)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-2=-156/53, 2-3=-1	11/87										
BOT CHORD	1-3=-105/72											
NOTES												
1) Unbalanc	ed roof live loads have	been considered fo	r									
this desig	n.											
2) Wind: AS	CE 7-10; Vult=130mph	(3-second gust)										
Vasd=103	3mph; TCDL=6.0psf; B0	CDL=6.0psf; h=25ft	Cat.									111

II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 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 1 SP No.2. 5)

Refer to girder(s) for truss to truss connections. 6)

Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 186 lb uplift at joint 3 and 53 lb uplift at joint 1.



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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	JA8	Jack-Open	3	1	Job Reference (optional)	171926226

Run; 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:54 ID:IrAa03RACVdOfoQ7hPmUfjzWiGo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:33

					_							
Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC 0	.39	DEFL Vert(LL)	in 0.05	(loc) 5-8	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.15	BC 0	.29	Vert(CT)	-0.05	5-8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB 0	.00	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%
LUMBER			6) Provide med	hanical connection (by	/ othe	ers) of truss t	to					
TOP CHORD	2x4 SP No.2		bearing plate	e capable of withstandi	ing 1	29 lb uplift at	t joint					
BOT CHORD	2x4 SP No.2		4, 27 lb uplif	t at joint 2 and 5 lb upli	ift at	joint 5.						
SLIDER	Left 2x4 SP No.2	- 2-6-0	LOAD CASE(S)	Standard								
BRACING												
TOP CHORD	Structural wood s 4-9-0 oc purlins.	eathing directly appli	ed or									
BOT CHORD	Rigid ceiling direc	ly applied or 10-0-0 o	c									
REACTIONS	(size) 2=0-3-8 Mechan Max Horiz 2=190 Max Uplift 2=-27 (5=-5 (L Max Grav 2=248 (LC 3)	, 4= Mechanical, 5= ical LC 12) LC 12), 4=-129 (LC 12 C 12) LC 1), 4=146 (LC 19)	2), , 5=85									
FORCES	(lb) - Maximum Co Tension	mpression/Maximum										
TOP CHORD BOT CHORD	1-2=0/31, 2-4=-24 2-5=-247/214	7/108										
NOTES												
1) Wind: ASC Vasd=103 II; Exp C; and C-C E 4-8-4 zone vertical lef forces & M DOL=1.60	CE 7-10; Vult=130m imph; TCDL=6.0psf; Enclosed; MWFRS Exterior (2) -0-11-0 tre e; cantilever left and t and right exposed; MWFRS for reactions 0 plate grip DOL=1.6	wh (3-second gust) BCDL=6.0psf; h=25ft envelope) exterior zoi 2-1-0, Interior (1) 2-1 right exposed ; end 2-C for members and shown; Lumber	; Cat. ne -0 to						4		OPTESS	ROLIN

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 3) 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.

4) Bearings are assumed to be: , Joint 2 SP No.2 .

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



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Job	Truss	Truss Type		Ply	JSJ, Belford Prime				
4619349	JA9	Jack-Open Girder	2	1	Job Reference (optional)	171926227			

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:54 ID:AhO8CvhjUf9Y3txzsb6ATxzWiGU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:34.9

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2015/TPI20	CSI TC BC WB 14 Matrix-MP	0.16 0.23 0.04	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.03 -0.01 0.02	(loc) 6-9 6-9 2 6-9	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 25 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left 2x4 SP No.2 Structural wood s 4-9-0 oc purlins, e 2-0-0 oc purlins; 4	- 2-6-0 neathing directly applie xcept -5.	5) * This on the 3-06-1 chord 6) Bearin 7) Refer ed or 8) Refer 9) Provio bearin	truss has been designe bottom chord in all are obtiom chord in all are obtiom chord in all are obtiom chord in all are obtiom of the second and any other members of an any other members of a second to be to girder(s) for truss to the mechanical connection of a second to the second	ed for a liv as where vill fit betv s. , Joint 2 S russ conr truss con truss con on (by oth standing 3	e load of 20. a rectangle veen the bott SP No.2 . nections. nections. ers) of truss 5 lb uplift at	Opsf tom to joint						
BOT CHORD REACTIONS FORCES	Rigid ceiling direct bracing. (size) 2=0-3-8 Mechaa Max Horiz 2=132 Max Uplift 2=-95 ((LC 8) Max Grav 2=265 (LC 15) (lb) - Maximum CC	tly applied or 10-0-0 od 5 5= Mechanical, 6= ical LC 8) _C 8), 5=-35 (LC 4), 6 LC 15), 5=52 (LC 1), 6 pmpression/Maximum	s 5,95 10) Graph or the bottor 11) Hang provic s=172 down desig respo 12) In the	 5, 95 ib Uplift at joint 2 and 108 ib Uplift at joint 5. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 71 lb up at 2-11-8 on top chord, and 43 lb down and 40 lb up at 2-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 									
TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=103 II; Exp C; I cantilever right expos 3) Provide ac 4) This truss chord live	Tension 1-2=0/31, 2-4=-29 2-6=-128/85 4-6=-128/85 4-6=-144/130 ed roof live loads ha b CE 7-10; Vult=130m imph; TCDL=6.0psf; Enclosed; MWFRS left and right expose sed; Lumber DOL=1 dequate drainage to has been designed load nonconcurrent	5/123, 4-5=0/0 ve been considered for bh (3-second gust) BCDL=6.0psf; h=25ft; envelope) exterior zor vd ; end vertical left and .60 plate grip DOL=1.6 prevent water ponding for a 10.0 psf bottom with any other live load	of the LOAD CA 1) Dea Plate Unifi Vo Con Vo Cat. le; d 30	truss are noted as front ISE(S) Standard d + Roof Live (balanced a Increase=1.15 orm Loads (lb/ft) art: 1-4=-60, 4-5=-60, 6- centrated Loads (lb) art: 4=-15 (B), 11=-17 (E	(F) or ba	ck (B). Increase=1.	15,		Walter		SEA 0363	RO(11,11) 22 112,2025	

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TRENCO

Job	Truss	Truss Type C		Ply	JSJ, Belford Prime			
4619349	PB01	Piggyback	7	1	Job Reference (optional)	171926228		

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:54 ID:m2WHE7JfkQYvdEGOfadHoczWiM8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x6 =

12 8 Г



0-9-5

1-4-0



0-9-5

Scale = 1:28.1

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 10.0	* Spacing Plate Grip DO Lumber DOL Rep Stress In Code	2-0-0 DL 1.15 1.15 nor YES IRC20	015/TPI2014	CSI TC BC WB Matrix-MP	0.04 0.02 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 11 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD NOTES 1) Unbalanc this desig 2) Wind: ASI Vasd=103 II; Exp C; and C-C E exposed ; members Lumber D 3) Truss des only. For see Stanc or consult 4) Gable req 5) Gable stu 6) This truss chord live	2x4 SP No.2 2x4 SP No.2 Structural wood s 4-0-0 oc purlins. Rigid ceiling direr bracing. (size) 1=4-0- Max Horiz 1=-39 Max Uplift 1=-29 4=-37 Max Grav 1=20 ((LC 1) (lb) - Maximum C Tension 1-2=-43/61, 2-3= 2-4=-7/53 ed roof live loads ha n. CE 7-10; Vult=130m 3mb; TCDL=6.0psf Enclosed; MWFRS Exterior (2) zone; ca e and vertical left and and forces & MWFRS Exterior (2) zone; ca e and vertical left and and forces & MWFRS Exterior (2) zone; ca e and vertical left and and forces & MWFRS Exterior (2) zone; ca e and vertical left and and forces & MWFRS Exterior (2) zone; ca e and vertical left and and forces & MWFRS Exterior (2) zone; ca e and seposed to w dard Industry Gable i qualified building d juires continuous bc ds spaced at 4-0-0 i has been designed	heathing directly tty applied or 10- 0, 2=4-0-0, 4=4-0 LC 8) LC 10), 2=-48 (Lf LC 13), 5=-14 (Lf C 9), 2=172 (LC 5=1 (LC 12) ompression/Maxii 63/37, 3-4=-63/3; ve been consider ph (3-second gus BCDL=6.0psf; h- (envelope) exterin tilever left and ri; l right exposed;C- Sf or reactions s DOL=1.60 is in the plane of tf ind (normal to the End Details as ap signer as per AN ttom chord bearin to. for a 10.0 psf bol with any other liv	applied or 0, 5=4-0-0 (2, 12), (2, 3) (19), 4=149 num 7, 4-5=0/28 ed for (1), (2), (2), (2), (2), (2), (2), (2), (2	 7) * This truss I on the bottor 3-06-00 tall It 8) All bearings 9) Provide mec bearing plate 2, 37 Ib uplifi joint 5, 48 Ib 10) See Standar Detail for Co consult quali LOAD CASE(S) 	has been designed in chord in all areas by 2-00-00 wide will by other members. are assumed to be hanical connection a capable of withsta at joint 4, 29 lb up uplift at joint 2 and d Industry Piggyba nnection to base tr fied building design Standard	for a liv s where I fit betw SP No. (by oth anding 4 lift at joi 37 lb up ck Truss uss as a her.	e load of 20.0 a rectangle veen the botto 2 . ers) of truss t 8 lb uplift at joint 4. 8 Connection applicable, or	Opsf om oint lift at		My transmission		SEA 0363	EP. F.	Manunun,
												1		

TRENCO A MITEK Affiliate

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A MiTek A 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	V01	Valley	1	1	Job Reference (optional)	171926229

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:54 ID:EzYEtf6cVWXBin2KjDKX9EzWiMO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

ID:EzYEtf6cVWXBin2KjDKX9EzWiMO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





	15-7-8
Scale = 1:39.3	
Plate Offsets (X, Y): [3:0-2-11,Edge], [5:0-3-5,Edge]	

Loading TCLL (roof) TCDL		(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.34 0.38	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190	
BCLL		0.0*	Rep Stress Incr	YES		WB	0.08	Horiz(TL)	0.01	10	n/a	n/a			
BCDL		10.0	Code	IRC20	15/TPI2014	Matrix-MS							Weight: 57 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No. 2x4 SP No. 2x4 SP No. 2x4 SP No. Structural v 6-0-0 oc pu 2-0-0 oc pu Rigid ceilin bracing. (size) 1 Max Horiz 1 Max Uplift 1 S Max Grav 1 8	2 2 3 wood shea rlins, excur g directly 1=15-7-8, 3=15-7-8, 1=-119 (L 1=-34 (LC 3=-144 (LI 1=191 (LC 3=296 (LC 10=454 (L	athing directly applied ept 0-0 max.): 3-5. applied or 6-0-0 oc 7=15-7-8, 8=15-7-8, 10=15-7-8 C 8) 12), 8=-138 (LC 13) C 13), 10=-147 (LC 1 2 3), 7=40 (LC 13), 2 1), 9=331 (LC 24), C 19)	d or	 Truss design only. For stu see Standard or consult qu Provide aded Gable requir Gable studs This truss he chord live loa * This truss he on the bottor 3-06-00 tall he chord and ar All bearings Provide mec bearing plate 1, 147 lb upli lb uplift at joi Ib crahing and 	ed for wind load: uds exposed to w d Industry Gable ialified building d quate drainage to es continuous bo spaced at 4-0-0 is been designed ad nonconcurreni nas been designed nas been designed n chord in all are by 2-00-00 wide w y other members are assumed to f hanical connection e capable of withs if at joint 10, 144 nt 8.	s in the pl ind (norm End Deta esigner a: p prevent ' totom chor oc. I for a 10.1 t with any ad for a liv as where will fit betw s. De SP No. on (by oth standing 3 I b uplift a	ane of the tru al to the face ils as applica s per ANSI/TI water ponding d bearing. D psf bottom other live load e load of 20.1 a rectangle ween the bott 2. ers) of truss i 4 lb uplift at j t depict the s	ss), ble, PI 1. g. ds. Opsf om oint 138 size						
	(lb) - Maxin Tension 1-2=-253/1	num Com	pression/Maximum		or the orienta bottom chore	ation of the purlin	along the	e top and/or	5120						
	4-5=-9/24,	5-6=-47/2	2, 6-7=-134/125	ļ	LOAD CASE(S)	Standard								111.	
BOT CHORD	1-10=-105/2 8-9=-105/12	265, 9-10 29, 7-8=-	=-105/129, 105/129										"TH CA	ROY	
WEBS	2-10=-294/	156, 4-9=	-261/195, 6-8=-245/	94								5	ORIESS	1 ho	
NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=100 II; Exp C; and C-CE to 5-7-8. E to 15-8-4 vertical le forces & N DOL=1.60	eed roof live loa n. CE 7-10; Vult= 3mph; TCDL= Enclosed; MV Exterior (2) 0- Exterior (2) 5-7 Exterior (2) 5-7 Exterior (2) 11 zone; cantilev ft and right ex MWFRS for re 0 plate grip DC	ads have =130mph 6.0psf; B0 VFRS (er 0-12 to 3- 7-8 to 7-4 -10-8 to 1 ver left and posed;C- actions si DL=1.60	been considered for (3-second gust) CDL=6.0psf; h=25ft; (velope) exterior zone 0-12, Interior (1) 3-0- -8, Interior (1) 7-4-8 t 4-9-7, Interior (1) 14 d right exposed ; end C for members and hown; Lumber	Cat. 9 12 0 -9-7							A. manager		SEA 0363	L 22 ILBER 12,2025	Manning

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	V02	Valley	1	1	Job Reference (optional)	171926230

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:55 ID:iuaBWBwaHbWSnKqFns2nVszWiMe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





1	11-7-8	i i
Scale = 1:34.5		1
Plate Offsets (X, Y): [3:0-3-5,Edge], [5:0-3-5,Edge]		

TCLL (roof) TCDL BCLL BCDL		20.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr Code	1.15 1.15 YES IRC201	5/TPI2014 Wind: ASCE	TC BC WB Matrix-MS 7-10; Vult=130mpt	0.09 0.13 0.05	Vert(LL) Vert(TL) Horiz(TL)	n/a n/a 0.00	- 7	n/a n/a n/a	999 999 n/a	MT20 Weight: 40 lb	244/190 FT = 20%	
FORCES FORCES TOP CHORD BACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanc this desig	2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N Structura 6-0-0 oc 2-0-0 oc Rigid ceil bracing. (size) Max Horiz Max Uplift Max Grav (lb) - Max Tension 1-2=-142, 4-5=-140, 1-10=-55, 7-8=-55/1 4-9=-169, ed roof live I n.	0.2 0.2 0.3 I wood shea bourlins, exc bourlins (6-0 ing directly 1=11-7-8, 9=11-7-8, 1=78 (LC 1=-32 (LC 8=-108 (LC 10=-114 (I 1=104 (LC (LC 20), 9 19) imum Com /88, 2-3=-18 /144, 5-6=- /124, 9-10= 24 /165, 2-10=	athing directly applied ept -0 max.): 3-5. applied or 10-0-0 oc 7=11-7-8, 8=11-7-8, 10=11-7-8 9) 13), 7=-23 (LC 12), C 13), 9=-55 (LC 9), LC 12) 21), 7=104 (LC 1), 8: =251 (LC 1), 10=264 pression/Maximum 38/146, 3-4=-140/144 188/146, 6-7=-142/7- -55/124, 8-9=-55/124 -184/156, 6-8=-178/7 been considered for	d or 3) =256 6) (LC 8) 4, 4 9) 4, 10 150 11 LC	Vasd=103mp II; Exp C; End and C-C Corr to 3-10-8, Co 6-10-8 to 7-1 (2) 10-9-7 to exposed ; en members and Lumber DOL Truss design only. For stu see Standard or consult qu Provide adeq Gable require Gable studs s This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and an All bearings a 9) Provide mech bearing plate 1, 23 lb uplift at joint 10 an) Graphical pu or the oriental bottom chord	h; TCDL=6.0psf; B closed; MWFRS (e her (3) 0-0-12 to 3- rmer (3) 3-10-8 to 6 0-8, Corner (3) 7-1 11-8-4 zone; cantil d vertical left and ri d forces & MWFRS =1.60 plate grip DC ed for wind loads ir ds exposed to wind I Industry Gable Er alified building desi juate drainage to p se continuous botto spaced at 4-0-0 oc. s been designed for d nonconcurrent w as been designed for d nonconcurent w as been desig	CDL=6 nvelope 0-12, E >-10-8, 10-8, 0-8 to 1 ever lef ght exp for reas 0L=1.6(the plation of the platic the p	.0psf; h=25ft; a) exterior (2) 3-C Exterior (2) 3-C Exterior (2) (0 -9-7, Exterior t and right loosed;C-C for ctions shown ane of the true al to the face ils as applical s per ANSI/TF water ponding d bearing.) psf bottom other live loa e load of 20.C 2. ers) of truss t 2 lb uplift at j nt 9, 114 lb u bt depict the s top and/or	Cat. ne -12 or ; ss), ole, PI 1. j. ds. opsf om o int plift ize				SEA 03632	ROLLING CONTRACTOR	

G mmm March 12,2025

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	V03	Valley	1	1	Job Reference (optional)	171926231

2-7-0

Run; 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:55 ID:Axr86WmMbiruhsFNqOPtE0zWiTI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



7-7-8

Scale = 1:27.4

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2	015/TPI2014	CSI TC BC WB Matrix-MS	0.15 0.16 0.08	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 26 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP M BOT CHORD 2x4 SP M OTHERS 2x4 SP M BRACING TOP CHORD Structural 7-7-8 oc p BOT CHORD Rigid ceili bracing. REACTIONS (size) Max Horiz Max Uplift Max Grav FORCES (lb) - Max Tension	0.2 0.2 0.3 wood she vurlins. ng directly 1=7-7-8, 3 1=80 (LC 1=-8 (LC (LC 12) 1=79 (LC (LC 1) mum Corr	athing directly applied applied or 6-0-0 oc 3=7-7-8, 4=7-7-8 9) 12), 3=-12 (LC 8), 4=- 23), 3=56 (LC 24), 4= apression/Maximum	l or ∙137 =497	 6) This truss ha chord live loa 7) * This truss h on the bottor 3-06-00 tall b chord and ar 8) All bearings 9) Provide mec bearing plate 12 lb uplift at LOAD CASE(S) 	is been designed ad nonconcurrent has been designe in chord in all are yoy 2-00-00 wide v yo other members are assumed to b hanical connectic e capable of withs joint 3 and 137 I Standard	for a 10.0 with any d for a liv as where will fit betw s. De SP No. Dr (by oth standing 8 b uplift at	 psf bottom other live load e load of 20.0 a rectangle veen the botto 2. ers) of truss to lb uplift at joi joint 4. 	ds. psf m nt 1,					
TOP CHORD 1-2=-76/2 BOT CHORD 1-4=-182/ WEBS 2-4=-388/	02, 2-3=-7 116, 3-4=- 197	3/198 182/116											
 Unbalanced roof live I this design. 	oads have	been considered for											

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 3-10-8, Exterior (2) 3-10-8 to 6-9-7, Interior (1) 6-9-7 to 7-3-4 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	V04	Valley	1	1	Job Reference (optional)	171926232

Run: 8 83 S. Feb 18 2025 Print: 8 830 S Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:55 ID:72RTzOay75y1NYcURkeM7szWiTX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



				L		3-7-8			_		
Scale = 1:21.4											
Plate Offsets (X, Y):	[2:0-3-0,Edge]										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grin DOI	1 15	TC	0.10	Vert(LL)	n/a		n/a	999	١ĸ

8) All bearings are assumed to be SP No.2 .

1 and 37 lb uplift at joint 3. LOAD CASE(S) Standard

or

oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
CDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint

LUMBER		
TOP CHORD	2x4 SP No	0.2
BOT CHORD	2x4 SP No	0.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied
	3-7-8 oc p	urlins.
BOT CHORD	Rigid ceilir	ng directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	1=3-7-8, 3=3-7-8
	Max Horiz	1=-36 (LC 8)
	Max Uplift	1=-37 (LC 12), 3=-37 (LC 13)
	Max Grav	1=145 (LC 1), 3=145 (LC 1)
FORCES	(lb) - Maxii	mum Compression/Maximum
	Tension	-
TOP CHORD	1-2=-215/8	35 2-3=-215/85

BOT CHORD 1-3=-57/176

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc. 5)
- 6)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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	JSJ, Belford Prime	
4619349	V05	Valley	1	1	Job Reference (optional)	171926233

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:55 ID:6nv2OaNI8tpRrxpDygqNxGzWiTo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.1

						1								
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	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	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL		10.0	Code	IRC20	15/TPI2014	Matrix-MS							Weight: 36 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING	2x4 SP No 2x4 SP No 2x4 SP No	0.2 0.2 0.3			 Gable requir Gable studs This truss ha chord live load * This truss has be bettered 	es continuous bot spaced at 3-0-0 o as been designed ad nonconcurrent nas been designed	tom chor c. for a 10.0 with any d for a liv	d bearing.) psf bottom other live load e load of 20.0	ds.)psf					
TOP CHORD	Structural 6-0-0 oc p Rigid ceili	wood she ourlins. ng directly	athing directly applie	ed or c	on the bottor 3-06-00 tall t chord and ar	m chord in all area by 2-00-00 wide w ny other members	is where ill fit betv	a rectangle leen the botto	om					
	bracing.	0 ,		8	3) All bearings	are assumed to be	e SP No.	2.						
REACTIONS	(size) Max Horiz Max Uplift Max Grav	1=9-7-8, 5 8=9-7-8 1=-103 (L 1=-22 (LC (LC 13), 8 1=71 (LC (LC 20), 7 19)	5=9-7-8, 6=9-7-8, 7= C 8) S 8), 5=-3 (LC 12), 6 B=-145 (LC 12) 20), 5=53 (LC 1), 6 '=203 (LC 1), 8=262	=9-7-8, * =-142 =259 2 (LC	 Provide mec bearing plate 1, 3 lb uplift uplift at joint OAD CASE(S) 	inanical connection e capable of withst at joint 5, 145 lb u 6. Standard	n (by oth tanding 2 plift at joi	ers) of truss to 2 Ib uplift at ju nt 8 and 142	o oint Ib					
FORCES	(lb) - Maxi	mum Com	pression/Maximum											
	Tension													
TOP CHORD	1-2=-90/8 4-5=-61/4	8, 2-3=-96, 8	/96, 3-4=-96/92,											
BOT CHORD	1-8=-33/6	6, 7-8=-30	/59, 6-7=-30/59,											

WEBS NOTES

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

3-7=-140/27, 2-8=-238/187, 4-6=-238/185

5-6=-30/59

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-10-8, Exterior (2) 4-10-8 to 7-10-8, Interior (1) 7-10-8 to 9-8-4 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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March 12,2025



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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	V06	Valley	1	1	Job Reference (optional)	171926234

1-11-0

Run; 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:55 ID:ubwVe7gzFZyuLnD1vQnESYzWiTP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



2-9-12 5-7-8 2-9-12 2-9-12 5-7-8 4x6 = 2 12 8 Г 9 10 3 М 9-0-0 4 2x4 🍫 2x4 🔊

2x4 u

5-7-8

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Scale = 1:24.7															
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	15/TPI2014	CSI TC BC WB Matrix-MP	0.08 0.10 0.04	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 19 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD 3OT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wo 5-7-8 oc purl Rigid ceiling bracing. (size) 1= Max Horiz 1= Max Uplift 1= (LI Max Grav 1]	bod shea lins. directly a =57 (LC 9 =-11 (LC C 12) =68 (LC 2 C 1)	athing directly applie applied or 6-0-0 oc =5-7-8, 4=5-7-8 3) 12), 3=-6 (LC 8), 4 23), 3=46 (LC 24), 4	7 ed or =-91 4=340	 * This truss I on the bottor 3-06-00 tall I chord and at All bearings Provide mec bearing plate 1, 6 lb uplift COAD CASE(S) 	has been desig m chord in all a by 2-00-00 wide hy other memb- are assumed to shanical connec e capable of wit at joint 3 and 9 Standard	ned for a liv reas where e will fit betw ers. o be SP No. tion (by oth thstanding 1 1 lb uplift at	e load of 20.1 a rectangle veen the bott 2 . ers) of truss t 1 b uplift at j joint 4.	Opsf om to joint						
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximu Tension 1-2=-65/124, 1-4=-123/84, 2-4=-231/119	um Comp , 2-3=-51 , 3-4=-12 9	pression/Maximum /118 23/84												

NOTES

1) Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=130mph (3-second gust)

- 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Gable requires continuous bottom chord bearing.

Gable studs spaced at 4-0-0 oc. 5) 6)

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancement description (www.tpinst.org) 818 Soundside Road Edenton, NC 27932 and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	V07	Valley	1	1	Job Reference (optional)	171926235

Run: 8 83 S. Feb 18 2025 Print: 8 830 S Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:56 ID:bMf6NjocweHmihrhvGFFMezcNXJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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Scale = 1:50.7														
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.15	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.17	Horiz(TL)	0.00	5	n/a	n/a			
BCDL	10.0	Code	IRC2015	5/TPI2014	Matrix-MS							Weight: 68 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3		4) 5) 6) 7)	Gable requi Gable studs This truss h chord live lo * This truss	res continuous b spaced at 4-0-0 as been designe ad nonconcurrer has been design	ottom chor oc. d for a 10.0 nt with any ied for a liv	d bearing.) psf bottom other live loa e load of 20.0	ads. Opsf						
TOP CHORD BOT CHORD	Structural wood she 10-0-0 oc purlins. Rigid ceiling directly bracing.	athing directly applie	ed or 8)	on the botto 3-06-00 tall chord and a All bearings	m chord in all an by 2-00-00 wide ny other membe are assumed to	eas where will fit betw rs, with BC be SP No.	a rectangle veen the bott DL = 10.0psi 2.	om f.						
REACTIONS	(size) 1=16-8-8,	5=16-8-8, 6=16-8-8,												

16-8-8

- 7=16-8-8, 9=16-8-8 Max Horiz 1=-181 (LC 8)
- Max Uplift 1=-21 (LC 13), 6=-248 (LC 13), 9=-251 (LC 12) 1=113 (LC 20), 5=103 (LC 24), Max Grav 6=455 (LC 20), 7=459 (LC 19), 9=458 (LC 19) FORCES (lb) - Maximum Compression/Maximum
- Tension TOP CHORD 1-2=-149/232, 2-3=-34/175, 3-4=-28/154, 4-5=-120/177 BOT CHORD 1-9=-172/156, 7-9=-172/147, 6-7=-172/147,
- 5-6=-172/147 WEBS 3-7=-303/41, 2-9=-356/277, 4-6=-356/276

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 8-5-0, Exterior (2) 8-5-0 to 11-5-0, Interior (1) 11-5-0 to 16-9-4 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

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- g plate ca able of withstanding 21 lb uplift at joint 1, 251 lb uplift at joint 9 and 248 lb uplift at joint 6.
- LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime	
4619349	V08	Valley	1	1	Job Reference (optional)	171926236

Run; 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:56 ID:U7vcD5s6ztnCBJ9S86KBWUzcNXF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

L/d PLATES



12-8-8

DEFL

Scale =	1:41.5
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Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.12	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.07	Horiz(TL)	0.00	5	n/a	n/a			
BCDL	10.0	Code	IRC201	5/TPI2014	Matrix-MS							Weight: 49 lb	FT = 20%	
LUMBER			4)	Gable requir	es continuous	bottom chor	d bearing.							
TOP CHORD	2x4 SP No.2		5)	Gable studs	spaced at 4-0-	0 oc.								
BOT CHORD	2x4 SP No.2		6)	This truss ha	as been design	ed for a 10.0) psf bottom							
OTHERS	2x4 SP No.3			chord live load nonconcurrent with any other live loads.										
BRACING			7)	* This truss I	has been desig	ned for a liv	e load of 20.0	Opsf						
TOP CHORD	Structural wood she 6-0-0 oc purlins.	athing directly applie	ed or	on the bottor 3-06-00 tall I	m chord in all a by 2-00-00 wide	reas where e will fit betw	a rectangle veen the botte	om						
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	8)	chord and and All bearings	ny other memb are assumed to	ers. o be SP No.	2.							
REACTIONS	(size) 1=12-8-8 7-12-8-8	, 5=12-8-8, 6=12-8-8	9)	Provide med bearing plate	hanical connect e capable of wi	ction (by othe thstanding 3	ers) of truss i 1 lb uplift at j	oint						
	Max Horiz 1=-137 (I	C 8)		1, 3 lb uplift	at joint 5, 196 l	b uplift at joi	nt 8 and 193	lb						
	Max I Inlift 1=-31 (I (Max Uplift 1=-31 (LC 8), 5=-3 (LC 12), 6=-193 (LC 13), 8=-196 (LC 12)			6.									
	(LC 13), 8				Standard									
	Max Grav 1=94 (LC 20), 5=69 (LC 19), 6=344													
	(LC 20), 7 19)	7=272 (LC 1), 8=348	(LC											
FORCES	(lb) - Maximum Con	npression/Maximum												
	Tension													
TOP CHORD	1-2=-12//11/, 2-3=-	.128/131, 3-4=-128/1	17,											
	4-5=-90/64	170 0 7 44/70												
BUICHURD	1-8=-44/95, 7-8=-41	//0, 0-/=-41//0,												
WEBS	3-7=-187/34, 2-8=-3	310/248, 4-6=-310/24	ŀ6									mm	1111	
NOTES												WAH CA	Ro'l	
1) Unbalance	ed roof live loads have	been considered for	r								AN	R		
this desig	n.									/	S.	C FSS	Id: JA	

CSI

Wind: ASCE 7-10; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 6-5-0, Exterior (2) 6-5-0 to 9-5-0, Interior (1) 9-5-0 to 12-9-4 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

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Annual Community SEAL 036322 G minin March 12,2025

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Job	Truss	Truss Type	Qty Ply		JSJ, Belford Prime	
4619349	V09	Valley	1	1	Job Reference (optional)	171926237

Run; 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:56 ID:q5iVGovFoPPVH41QxfwMDXzcNXA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



8-8-8

Scale -	1.28 0

Loading (psf) TCLL (roof) 20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing2-0Plate Grip DOL1.1Lumber DOL1.1Rep Stress IncrYECodeIRC	0-0 5 5 S C2015/TPI2014	CSI TC BC WB Matrix-MS	0.21 0.20 0.10	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 30 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wood shea 8-8-8 oc purlins. BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 1=8-8-8, 3 Max Horiz 1=-92 (LC Max Uplift 1=-9 (LC 2 (LC 12) Max Grav 1=78 (LC 3 (LC 1) FORCES (lb) - Maximum Com Tension	athing directly applied or applied or 6-0-0 oc 5=8-8-8, 4=8-8-8 10) 24), 3=-23 (LC 8), 4=-168 23), 3=78 (LC 24), 4=602 pression/Maximum	 6) This truss ha chord live loa 7) * This truss h on the botton 3-06-00 tall b chord and an 8) All bearings a 9) Provide mech bearing plate 23 lb uplift at LOAD CASE(S) 	s been designed f d nonconcurrent v as been designed n chord in all areas y 2-00-00 wide wi y other members. are assumed to be nanical connectior capable of withsta joint 3 and 168 lb Standard	or a 10.0 with any for a live s where a ll fit betw SP No.2 (by othe anding 9 uplift at) psf bottom other live load e load of 20.0µ a rectangle even the botto 2. ars) of truss to lb uplift at joir joint 4.	ls. posf m nt 1,					

TOP CHORD 1-2=-98/259, 2-3=-97/257 BOT CHORD 1-4=-246/152, 3-4=-246/152 2-4=-482/233

WEBS

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-5-0, Exterior (2) 4-5-0 to 7-5-0, Interior (1) 7-5-0 to 8-9-4 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.



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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime		
4619349	V10	Valley	1	1	Job Reference (optional)	171926238	

1-7-5

Run; 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:56 ID:jsx05AzIsewwmhLBAV_IONzcNX6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



4-8-8

Scale - 1:23.5

00010 = 112010													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	15/TPI2014	CSI TC BC WB Matrix-MP	0.05 0.07 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 15 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 4-8-8 oc purlins. Rigid ceiling directly bracing. (size) 1=4-8-8, Max Horiz 1=-48 (LC Max Uplift 1=-14 (LC 4=-68 (LC Max Grav 1=62 (LC (LC 1)	eathing directly appli y applied or 6-0-0 oc 3=4-8-8, 4=4-8-8 C 8) C 12), 3=-22 (LC 13) C 12) S 23), 3=62 (LC 24),	ed or ;), 4=274	 7) * This truss I on the bottor 3-06-00 tall I chord and ar 8) All bearings 8) Provide mec bearing plate 1, 22 lb uplifi COAD CASE(S) 	has been design in chord in all ar by 2-00-00 wide ny other membe are assumed to hanical connec e capable of witi t at joint 3 and 6 Standard	ned for a liv reas where e will fit betw ers. b be SP No. tion (by oth hstanding 1 58 lb uplift a	e load of 20. a rectangle veen the bott 2 . ers) of truss s 4 lb uplift at j t joint 4.	0psf om to joint					
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance	(lb) - Maximum Con Tension 1-2=-59/91, 2-3=-59 1-4=-95/70, 3-4=-95 2-4=-165/80 ed roof live loads have	npression/Maximum 9/86 5/70 9 been considered fo	pr										

- this design 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Gable requires continuous bottom chord bearing.

Gable studs spaced at 4-0-0 oc. 5) 6)

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

ORTH CAR \cap VIIIIIII 111111111 SEAL 036322 GI mmm March 12,2025

MILLIN

Page: 1

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