

Trenco 818 Soundside Rd Edenton, NC 27932

Re: Q-1901805-1 Phillips' Hip RF-Roof

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Peak Truss Builders, LLC.

Pages or sheets covered by this seal: E13608495 thru E13608523

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



October 8,2019

## Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	H1	Diagonal Hip Girder	4	1	Job Reference (optional)	E13608495

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:40 ID:Zc90SDijIOKpocZoEFNgv4yX8pM-8iEkcRr8tNspG0UzJeGMFZJ?PWoOoGgeukpP9qyVmX? Page: 1



Scale = 1:47.2

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	0.33	Vert(LL)	-0.01	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.26	Vert(CT)	-0.03	7-8	>999	180		
BCLL	0.0^	Rep Stress Incr	NO IRC201	5/TDI2014	WB Motrix MS	0.30	Horz(CT)	0.00	/	n/a	n/a	Woight: 57 lb	ET - 20%
BCDL	10.0	Code	IBC201	J/TF12014	Wath A-WIS							Weight. 57 lb	FT = 2076
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 *Excep Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly	t* 9-2:2x6 SP No.2 athing directly applie cept end verticals. applied or 10-0-0 0	6; 7; edior 8; c L	<ul> <li>This truss is International referenced s</li> <li>"NAILED" in (0.148"x3.25</li> <li>In the LOAD of the truss a</li> <li>OAD CASE(S)</li> </ul>	designed in acc l Building Code s standard ANSI/T dicates 3-10d (0 5") toe-nails per CASE(S) section are noted as fror Standard	cordance wi section 230 PI 1. .148"x3") o NDS guidlir on, loads ap nt (F) or bac	th the 2015 6.1 and r 2-12d nes. plied to the f ck (B).	face					
REACTIONS	bracing. (lb/size) 7=493/ Max Horiz 9=149 (LC Max Horiz 7=-104 (LC	echanical, 9=534/0- C 19) C 7) 9=-119 (I C 7)	1) 4-9	) Dead + Ro Plate Increa Uniform Lo Vert: 1-2	of Live (balance ase=1.15 ads (lb/ft) 2=-60, 2-4=-60, 4	d): Lumber I-5=-20, 6-9	Increase=1.	15,					
FORCES	(lb) - Maximum Com Tension	pression/Maximum		Concentrat Vert: 10=	ed Loads (lb) =-3 (F=-2, B=-2)	, 11=-88 (F	=-44, B=-44)	,					
TOP CHORD	2-9=-493/141, 1-2=0 3-10=-502/88, 3-11= 4-5=-2/0, 4-7=-155/7	0/38, 2-10=-600/108 143/73, 4-11=-84/4 71	, 19,	12=-13 (	F=-7, B=-7), 13=	=-68 (F=-34	, B=-34)						
BOT CHORD	9-12=-125/110, 8-12 8-13=-149/504, 7-13	2=-125/110, 3=-149/504, 6-7=0/0											
WEBS	2-8=-102/442, 3-8=0	)/123, 3-7=-547/147											
NOTES													
<ol> <li>Wind: AS Vasd=95r B=20ft; L: MWFRS end vertic plate grip</li> <li>* This trus on the bo 3-06-00 tr</li> </ol>	CE 7-10; Vult=120mph mph; TCDL=6.0psf; BC =20ft; eave=4ft; Cat. II; (directional); cantilever al left and right expose DOL=1.60 ss has been designed fi ttom chord in all areas ul by 2-00-00 wide will	(3-second gust) DL=6.0psf; h=30ft; Exp B; Enclosed; left and right exposed; d; Lumber DOL=1.6 or a live load of 20.0 where a rectangle fit between the bott	ed ; ;0 )psf								Marin .	ORTH ORTH	CARO

chord and any other members.3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 9 and 104 lb uplift at joint 7.

SEAL 036322 VGINEER A. GILBE



Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T1	Roof Special	8	1	Job Reference (optional)	E13608496

9-7-12 9-6-11

Scale = 1:62.8

-1-0-0 1-0-0

7-7-8

7-7-8

4x5 🍫

6-7-8

6-4-0

3

4x10 🛚

0-3-8 0-3-8

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:43 Page: 1 ID:1ojOgZiL3iSgQl8\_oyvvRHyX8pL-Vf1dg9vGivU6NnMw6CsXyc0liXPBTRBN10WAp2yVmWw 30-11-0 1-0-0 14-11-8 20-3-8 25-9-4 29-11-0 7-4-0 5-4-0 5-5-12 4-1-12 4x5 = 6 3x6 🎜 3x4 👟 25<sup>5</sup> 7<sub>26</sub> 12 7 Г  $\mathfrak{F}$ 3x5 👟 8 3x4 🍬 4 3x5 👟 9 4x5 💊 15 3-8-5 5x8 = 10 Q 16 11 14 3.5 ∟ 12 2x4 // 12 3x5 🕿 Ø 13 5x5 = 3x7 🛛 20-3-8 25-7-8 12-11-8 29-11-0 6-4-0 7-4-0 5-4-0 4-3-8

Plate Offsets (X, Y):	[2:0-4-14,Edge],	[11:0-5-3,0-0-2]
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0-10-0

Loading TCLL (roof) TCDL		(psf) 20.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.74 0.67	DEFL Vert(LL) Vert(CT)	in -0.13 -0.29	(loc) 15-16 15-16	I/defl >999 >999	L/d 240 180	PLATES MT20	<b>GRIP</b> 244/190	
BCLL		0.0*	Rep Stress Incr	YES		WB	0.60	Horz(CT)	0.14	13	n/a	n/a			
BCDL		10.0	Code	IBC201	5/TPI2014	Matrix-MS							Weight: 164 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N Left 2x6 S 2-6-0 Structura 2-2-0 oc p Rigid ceil bracing. (Ib/size) Max Horiz Max Uplift Max Grav	o.1 o.3 SP No.2 2 I wood sheat purlins. ing directly 2=976/0-3 13=1957/( 2=167 (LC 2=-162 (L0 13=-143 (L0 13=1957 (	2-6-0, Right 2x6 SP N athing directly applied applied or 6-0-0 oc -8, 11=-419/0-3-8, )-3-8 2 10) C 11), 11=-444 (LC 2 LC 1) 2 1), 11=-60 (LC 11), LC 1)	2 No.2 d or 3 20), 4 5	<ul> <li>Wind: ASCE</li> <li>Vasd=95mph</li> <li>B=20ft; L=30</li> <li>MWFRS (dire</li> <li>2-0-0, Interior</li> <li>to 17-11-8, In</li> <li>cantilever left</li> <li>right exposec</li> <li>for reactions</li> <li>DOL=1.60</li> <li>* This truss h</li> <li>on the bottom</li> <li>3-06-00 tall b</li> <li>chord and an</li> <li>All bearings a</li> <li>capacity of 42</li> <li>Bearing at joi</li> <li>using ANSI/T</li> </ul>	7-10; Vult=120mph ; TCDL=6.0psf; BC ft; eave=4ft; Cat. II ectional) and C-C E r (1) 2-0-0 to 14-11 tterior (1) 17-11-8 t t and right exposed t;C-C for members shown; Lumber DC has been designed in chord in all areas y 2-00-00 wide will y other members. are assumed to be 25 psi. int(s) 2 considers p iPl 1 angle to grain uld verify capacity	n (3-sec CDL=6.0; ; Exp B; Exterior -8, Exterior -8, Exterior -9, Exte	ond gust) posf; h=30ft; Enclosed; (2) -1-0-0 to rior (2) 14-11; -0 zone; ertical left and ces & MWFR: plate grip e load of 20.0 a rectangle een the botto .2 crushing o grain value . Building ng surface	-8 5 psf						
FORCES	(lb) - Max Tension 1-2=0/30, 4-25=-144 5-6=-1294 7-26=-994 8-9=-670, 11-12=0/3	imum Com , 2-3=-682/0 40/168, 5-2: 4/188, 6-7= 4/167, 8-26: /170, 9-10= 30	pression/Maximum ), 3-4=-2064/268, 5=-1309/170, -988/182, =-1073/153, 0/1089, 10-11=-45/7	6 7 4,	<ul> <li>Provide mech bearing plate joint 2, 143 lb 11.</li> <li>This truss is of International referenced st</li> </ul>	nanical connection capable of withsta puplift at joint 13 ar designed in accord Building Code sect candard ANSI/TPI 1	(by oth Inding 1 Ind 444 I Iance wi tion 230	ers) of truss to 62 lb uplift at b uplift at joint th the 2015 6.1 and	t				TUORTH	CARO	Ville
BOT CHORD	2-16=-12	4/1782, 15-	16=-149/1778, 965/59_11-13924	⊾ 5/37		Gandaru						2	VK !	IRA.	Ú.
WEBS	4-16=0/10 8-15=0/43 9-13=-15	06, 4-15=-5 32, 8-14=-6 58/171	905/59, 11-13=-83 87/253, 6-15=-46/84 34/97, 9-14=-16/145	4, 7,								THE OWNER OF	03	SEAL 36322	
NOTES												-		1	: 3
<ol> <li>Unbalance</li> </ol>	ed root live l	oads have	been considered for									5			1. A 1.

this design.



A. GI A. GILD October 8,2019

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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T1A	Common	1	1	Job Reference (optional)	E13608497

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:43 ID:CwuYzKrFT4q6ESU5xmbUOcyX8pA-Vf1dg9vGivU6NnMw6CsXyc0nPXPfTW7N10WAp2yVmWw

Page: 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	0.63	Vert(LL)	-0.32	12-14	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.70	Vert(CT)	-0.49	12-14	>730	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.29	Horz(CT)	0.06	10	n/a	n/a			
BCDL	10.0	Code	IBC201	5/TPI2014	Matrix-MS							Weight: 158 lb	FT = 20%	
LUMBER			2)	Wind: ASCE	7-10; Vult=120mp	h (3-sec	ond gust)							
TOP CHORD	2x4 SP No.1			Vasd=95mpl	n; TCDL=6.0psf; B	CDL=6.0	0psf; h=30ft;							
BOT CHORD	2x4 SP No.1			B=20ft; L=30	ft; eave=4ft; Cat. I	I; Exp B	Enclosed;							
WEBS	2x4 SP No.3			MWFRS (dir	ectional) and C-C	Exterior	(2) -1-0-0 to	_						
SLIDER	Left 2x6 SP No.2 2 2-6-0	2-6-0, Right 2x6 SP N	No.2	2-0-0, Interio to 17-11-8, I	r (1) 2-0-0 to 14-1 nterior (1) 17-11-8	1-8, Exte to 30-11	erior (2) 14-11 -0 zone;	-8						
BRACING				cantilever lef	t and right expose	d;endv	ertical left and	1						
TOP CHORD	Structural wood she 3-6-8 oc purlins.	athing directly applie	d or	for reactions	d;C-C for members shown; Lumber D	s and for OL=1.60	ces & MWFR ) plate grip	S						
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	3)	* This truss h	nas been designed	l for a liv	e load of 20.0	psf						
REACTIONS	(lb/size)         2=1257/0           Max Horiz         2=167 (L0           Max Uplift         2=-182 (L           Max Grav         2=1291 (L	-3-8, 10=1257/0-3-8 C 10) C 11), 10=-182 (LC 1 -C 16), 10=1291 (LC	11) 4) 17)	3-06-00 tall to chord and ar All bearings capacity of 4	by 2-00-00 wide wi by other members, are assumed to be 25 psi.	II fit betw with BC SPF No	ween the botto DL = 10.0psf. D.2 crushing	m						
FORCES	(lb) - Maximum Com Tension	pression/Maximum	5)	Provide mec	hanical connection capable of withst	n (by oth anding 1	ers) of truss to 82 lb uplift at	)						
TOP CHORD	1-2=0/30, 2-3=-656/ 4-23=-1661/305, 5-2 5-6=-1538/326, 6-7= 7-24=-1550/308, 8-2 8-9=-1784/269, 9-10	0, 3-4=-1784/269, 23=-1550/308, 1538/326, 24=-1661/305, )=-538/0, 10-11=0/30	6)	joint 2 and 1 This truss is International referenced s	82 lb uplift at joint designed in accord Building Code sed tandard ANSI/TPI Standard	10. dance wi ction 230 1.	th the 2015 6.1 and						111111	
BOT CHORD	2-25=-168/1591, 25- 14-26=-107/1591, 14- 13-27=0/1078, 13-24 12-29=-107/1468, 29- 10-30=-107/1468	-26=-107/1591, 4-27=0/1078, 8=0/1078, 12-28=0/1 9-30=-107/1468,	078,		olandard						4	CHUNNING TH	CAR	
WEBS	6-12=-90/746, 8-12= 4-14=-388/219	-388/219, 6-14=-90/	746,								1111		SEAL	<u>\</u>
NOTES											=			
1) Unbalance this desig	ed roof live loads have n.	been considered for									1111	03	36322	
												THE SNO	INEER.	A LIVE

#### NOTES

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Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T1B	Нір	1	1	Job Reference (optional)	E13608498

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:44 ID:oLCPLIpMB9SXN\_mWGe2nmzyX8pD-zsb?tVwuSDcz\_xx6gvNmUqZwxxl5Cv5WGgGkMUyVmWv

Page: 1



Scale = 1:58.7			

Plate Offsets	(X, Y): [2:0-4-14,Edge]	], [6:0-2-8,0-2-1], [7	:0-5-8,0-2-	0], [12:0-4-3,0-0	0-2], [16:0-2-8,0-2-	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 IBC201	5/TPI2014	CSI TC BC WB Matrix-MS	0.71 0.69 0.56	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.30 0.16	(loc) 16-17 16-17 14	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 169 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 Left 2x6 SP No.2 2 2-6-0 Structural wood shea 2-10-9 oc purlins, ex 2-0-0 oc purlins (5-6	2-6-0, Right 2x6 SP athing directly applic cept -4 max.): 6-7.	2; No.2 ed or	Wind: ASCE Vasd=95mpf B=20ft; L=30 MWFRS (din 2-0-0, Interio to 21-3-8, Int left and right exposed;C-C reactions sho DOL=1.60	7-10; Vult=120mp 1; TCDL=6.0psf; Br ft; eave=4ft; Cat. Il ectional) and C-C I r (1) 2-0-0 to 12-1 erior (1) 21-3-8 to exposed ; end ver for members and pwn; Lumber DOL=	h (3-sec CDL=6.( l; Exp B; Exterior 1-8, Exte 30-11-0 tical left forces 8 =1.60 pla	ond gust) )psf; h=30ft; Enclosed; (2) -1-0-0 to prior (2) 12-11 zone; cantile and right MWFRS for ate grip	-8 ver					
BOT CHORD WEBS REACTIONS	<ul> <li>2-10-9 oc purlins, 5-6-4 max.): 6-7.</li> <li>Rigid ceiling directly applied or 10-0-0 oc bracing; Except:</li> <li>6-0-0 oc bracing: 12-14.</li> <li>1 Row at midpt 9-14</li> <li>(lb/size) 2=989/0-3-8, 12=-340/0-3-8, 14=1864/0-3-8</li> <li>Max Horiz 2=-146 (LC 9)</li> <li>Max Uplift 2=-161 (LC 11), 12=-427 (LC 20), 14=-150 (LC 11), 12=-427 (LC 21), 14=1864 (LC 1)</li> <li>Max Grav 2=989 (LC 1), 12=-54 (LC 11), 14=1864 (LC 1)</li> <li>DOL=1.60</li> <li>DOL=1.60</li> <li>DOL=1.60</li> <li>DOL=1.60</li> <li>DOL=1.60</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>* This truss has been designed for a live load of 20.0psf</li> <li>on the bottom chord in all areas where a rectangle</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.</li> <li>All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>Bearing at joint(s) 2 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at</li> </ul>												
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Com Tension 1-2=0/30, 2-3=-679/ 4-26=-1528/150, 5-2 5-6=-1412/185, 6-27 27-28=-1237/201, 7- 7-8=-924/183, 8-9=- 10-11=0/946, 11-12= 2-17=-137/1823, 16- 15-16=0/827, 14-15=	pression/Maximum 14, 3-4=-2118/273, 6=-1432/168, =-1237/201, 28=-1237/201, 992/167, 9-10=0/91 =-39/84, 12-13=0/30 17=-140/1844, =-17/428, 12-14=-72	8; 9; 0, 20/59 L	joint 2, 150 lt 12. This truss is International referenced s Graphical pu or the orienta bottom chore CAD CASE(S)	o uplift at joint 14 a designed in accord Building Code sec tandard ANSI/TPI rlin representation ation of the purlin a J. Standard	nd 427 I dance wi ttion 230 1. does no long the	b uplift at join th the 2015 6.1 and of depict the s top and/or	ize			Winn	ALL OFFICE	CAROL SEAL
WEBS NOTES 1) Unbalanc this desig	4-17=0/99, 4-16=-55 7-16=-23/683, 7-15= 9-14=-1808/99, 10-1 ed roof live loads have n.	8/208, 6-16=0/395, -274/23, 9-15=0/53 4=-371/144 been considered fo	7, r								100	AND	MEER.

October 8,2019



Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T2	Hip	1	1	Job Reference (optional)	E13608499

14-2-0

6-11-4

Peak Truss Builders, LLC, New Hill, NC - 27562.

TCDL

BCLL

BCDL

-1-0-0 |\_\_\_| 1-0-0

7-2-12

7-2-12

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:45 ID:g6RwBgstEOyzsc3HVU6jxpyX8p9-zsb?tVwuSDcz\_xx6gvNmUqZz6xksCx4WGgGkMUyVmWv

23-6-8

4-3-0

15-9-0 18-4-2

5x5=

1-7-0 2-7-20-11-6

19-3-8

Page: 1

30-11-0 29-11-0

1-1-6 1-0-0

28-9-10

5-3-2





Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T2A	Нір	1	1	Job Reference (optional)	E13608500

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:45 ID:kjKAm\_qdjniFclvvN34FrOyX8pB-R29O4rwXDWkqc5WJDdu?115ArL49xKsgVK?HuwyVmWu Page: 1



Scale = 1:72.5

### Plate Offsets (X, Y): [2:0-5-15,Edge], [5:0-5-8,0-2-0], [6:0-2-8,0-2-1], [9:0-7-12,0-1-8], [14:0-0-8,0-3-0], [16:0-2-12,0-2-12]

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	0.44	Vert(LL)	-0.12	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.36	14-16	>993	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.16	12	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 198 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP No.1

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2x4 SP No.1 \*Except\* 17-7,14-15:2x4 SP BOT CHORD No.3 WEBS 2x4 SP No.3 \*Except\* 12-10:2x6 SP No.2 SLIDER Left 2x6 SP No.2 -- 2-6-0 BRACING TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-10 max.): 5-6. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18,16-17. 10-0-0 oc bracing: 14-16 WEBS 1 Row at midpt 5-18 2=1247/0-3-8, 12=1262/0-3-8 **REACTIONS** (lb/size) Max Horiz 2=152 (LC 10) Max Uplift 2=-181 (LC 11), 12=-189 (LC 11) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/30, 2-3=-538/0, 3-4=-1725/249, 4-26=-1400/230, 5-26=-1310/262, 5-27=-1124/264, 27-28=-1124/264, 28-29=-1124/264, 29-30=-1124/264, 6-30=-1124/264, 6-7=-1616/318, 7-31=-1636/267, 8-31=-1717/243 8-32=-2984/213, 9-32=-3036/183, 9-10=-623/121, 10-11=0/37, 10-12=-849/112 BOT CHORD 2-21=-97/1437, 20-21=-92/1437, 19-20=-92/1437, 19-33=0/1144, 18-33=0/1144, 17-18=-40/2, 16-17=-31/0, 7-16=-114/84, 14-16=-128/1793, 9-14=-13/2332, 14-15=-13/241, 13-15=-44/245, 12-13=-49/269 WEBS 4-20=0/103, 4-19=-378/134, 5-19=-3/393, 5-18=-139/109, 6-18=-578/16, 16-18=0/1316, 6-16=-100/1149, 8-16=-471/152, 8-14=0/990,

9-13=-616/114

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-2-0, Exterior (2) 12-2-0 to 16-4-15, Interior (1) 16-4-15 to 17-9-0, Exterior (2) 17-9-0 to 21-11-15, Interior (1) 21-11-15 to 30-11-0 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
  5) \* 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, with BCDL = 10.0psf.All bearings are assumed to be SPF No.2 crushing
- capacity of 425 psi.7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at
- joint 2 and 189 lb uplift at joint 12. 8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and
- referenced standard ANSI/TPI 1. 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
  - bottom chord.
- LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T2B	Roof Special	1	1	Job Reference (optional)	E13608501

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:46 ID:grwVcseDFApNJ\_G0?PJkIEyX8pQ-vEjmIAx9\_qshEE5VnKPEZFeJjkNNgkCpj\_IqQNyVmWt

Page: 1



#### Scale = 1:66.7

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	0.56	Vert(LL)	-0.21	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.96	Vert(CT)	-0.41	19-20	>860	180		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.84	Horz(CT)	0.19	12	n/a	n/a		
BCDL	10.0	Code	IBC201	5/TPI2014	Matrix-MS							Weight: 173 lb	FT = 20%
LUMBER			N	DTES									
TOP CHORD	2x4 SP No.1		1)	Unbalanced i	oof live loads have	been o	onsidered fo	r					
BOT CHORD	2x4 SP No.1 *Except	* 18-7,14-15:2x4 SP		this design.									
	No.3, 17-9:2x4 SP D	SS	2)	Wind: ASCE	7-10; Vult=120mpl	1 (3-sec	ond gust)						
WEBS	2x4 SP No.3 *Except	* 12-10:2x6 SP No.2	2	Vasd=95mph	; TCDL=6.0psf; BC	DL=6.0	)psf; h=30ft;						
SLIDER	Left 2x6 SP No.2 2	-6-0		B=20ft; L=30	rt; eave=4ft; Cat. II	; Exp B;	Enclosed;						
BRACING				2 0 0 Intorio	(1) 2 0 0 to 10 11		(2) - 1 - 0 - 0 10	1 0					
TOP CHORD	Structural wood shea	thing directly applied	dor	to 13-11-8 In	(1) 2-0-0 10 10-11	-0, Exie	) Exterior (2)	)					
	3-4-9 oc purlins, exc	ept end verticals, an	d	23-9-0 to 26-	9-0 Interior (1) 26-	9-0 to 3	0-11-0 zone						
	2-0-0 oc puriins (3-9-	13 max.): 6-8.		cantilever left	and right exposed	l; end v	ertical left an	id					
BOT CHORD	kigid celling directly	applied or 10-0-0 oc		right exposed	I;C-C for members	and for	ces & MWFR	RS					
	6-0-0 oc bracing: 17-	18		for reactions	shown; Lumber DO	DL=1.60	plate grip						
	2-2-0 oc bracing: 14-	15.		DOL=1.60									
	10-0-0 oc bracing: 14	4-16	3)	Provide adeq	uate drainage to p	revent v	vater ponding	g.					
REACTIONS	(lb/size) 2=1247/0-	3-8. 12=1262/0-3-8	4)	* This truss h	as been designed	for a liv	e load of 20.0	Opsf					
	Max Horiz 2=139 (LC	: 10)		on the botton	h chord in all areas	where	a rectangle						
	Max Uplift 2=-181 (LC	C 11), 12=-189 (LC 1	1)	3-06-00 tall b	y 2-00-00 wide will	TIT DETW	Pl 10 Oper	om :					
FORCES	(lb) - Maximum Com	pression/Maximum	5)		y other members,		DL = 10.0psi						
	Tension		3)	capacity of 42	25 nsi		.z crusning						
TOP CHORD	1-2=0/30, 2-3=-515/0	), 3-4=-1727/261,	6)	Provide mech	anical connection	(by oth	ers) of truss t	0					
	4-26=-1605/267, 5-20	6=-1527/285,	-,	bearing plate	capable of withsta	nding 1	81 lb uplift at					111	111111
	5-27=-2521/447, 6-2	7=-2585/429,		joint 2 and 18	9 lb uplift at joint 1	2.						united.	CAD
	6-7=-2517/349, 7-28	=-2540/352,	7)	This truss is o	designed in accord	ance wi	th the 2015					"'DTH	
	8-28=-2540/352, 8-29	9=-2165/265,		International	Building Code sect	tion 230	6.1 and				/	SOL	SSID
	29-30=-2172/247, 9-30=-2000, 9-300, 9-30000, 9-30000, 9-30000, 9-30000, 9-30000, 9-30000, 9-30000, 9-300000, 9-30000000, 9-3000000000000000000000000000000000000	30=-2220/236, 1_0/27_10_12_ 921/	110	referenced st	andard ANSI/TPI 1						4	N.D	J. A.
	9-10=-094/114, 10-1	1=0/37, 10-12=-034/	8)	Graphical pu	lin representation	does no	t depict the s	size			-	:0	Mail:
BOTCHORD	2-21=-107/1400, 20-	21=-107/1433,		or the orienta	tion of the purlin al	ong the	top and/or				-		·
	19-32=-13/1188 18-	19=-28/166		bottom chord							- 5		SEAL .
	17-18=-16/24, 7-17=	-238/105,	LC	DAD CASE(S)	Standard						1	: 03	6322 : :
	16-17=-98/1887, 14-	16=-100/1873,									1	:	: :
	9-14=-68/1537, 14-1	5=-13/214,									-		1 3
	13-15=-32/336, 12-13	3=-36/360										· A SAL	ERIA S
WEBS	4-20=-239/149, 5-20	=-30/408,										1 A	INEL AN
	5-19=-261/1710, 6-19	9=-1846/332,										ILC A	CILBENT
	17-19=-130/2034, 6-	1/=-53/540,	06									1111	GILIN
	0-17=-109/798, 8-16	=0/307, 9-13=-004/1	00										LITTING

October 8,2019



Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T2C	Roof Special	1	1	Job Reference (optional)	E13608502

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:47 ID:CeM7PWeaUshWhqhqRioVC0yX8pR-NRH8VWynl8\_YrOghL1wT6SBSz8i7PA8yyeUOypyVmWs



Scale = 1:68.7

late Offsets (X, Y):	[2:0-5-15,Edge]	, [6:0-5-12,0-2-8], [8	:0-9-8,0-2-0], [9:0-5-12	2,0-1-8], [12:0-2-3,0-2-4],	[14:0-2-8,Edge]
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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	0.66	Vert(LL)	-0.25	18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.54	19-20	>664	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.19	12	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 165 lb	FT = 20%

LUMBER
TOP CHORD
BOT CHORD

FORCES

No.3

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- WEBS 2x4 SP No.3 \*Except\* 19-17:2x4 SP No.2, 12-10:2x6 SP No.2 Left 2x6 SP No.2 -- 2-6-0 SLIDER BRACING TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-4 max.): 6-8. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18 10-0-0 oc bracing: 14-16 WEBS 1 Row at midpt 6-20 **REACTIONS** (lb/size) 2=1247/0-3-8, 12=1262/0-3-8

2x4 SP No.1 \*Except\* 6-8:2x4 SP DSS

2x4 SP No.1 \*Except\* 18-7,14-15:2x4 SP

- 3) 4) Max Horiz 2=139 (LC 10) Max Uplift 2=-181 (LC 11), 12=-189 (LC 11) 5) (lb) - Maximum Compression/Maximum Tension 6) 1-2=0/30, 2-3=-536/0, 3-4=-1718/265, TOP CHORD 4-26=-1565/249, 5-26=-1492/267, 5-27=-1160/225, 6-27=-1274/205, 7) 6-7=-3973/500, 7-28=-4093/521, 8-28=-4093/521, 8-29=-2471/271
- 29-30=-2492/257, 9-30=-2497/252, 9-10=-679/110, 10-11=0/37, 10-12=-872/151 BOT CHORD 2-21=-121/1422, 20-21=-109/1422, 19-20=-272/2903, 18-19=-63/225, 17-18=-56/0, 7-17=-198/136, 16-17=-131/2170, 14-16=-135/2146, 9-14=-125/1848, 14-15=-2/207, 13-15=-11/298. 12-13=-13/320 WEBS 4-20=-246/143, 5-20=-98/989, 6-20=-1992/304, 6-19=-1722/266 17-19=-242/3190. 6-17=-187/1875. 8-17=-277/2011, 8-16=0/319, 9-13=-560/63

- Wind: ASCE 7-10: Vult=120mph (3-second aust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft: L=30ft: eave=4ft: Cat. II: Exp B: Enclosed: MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-11-8, Exterior (2) 10-11-8 to 13-11-8, Interior (1) 13-11-8 to 25-9-0, Exterior (2) 25-9-0 to 28-9-0, Interior (1) 28-9-0 to 30-11-0 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. \* 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 2 and 189 lb uplift at joint 12.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard



Page: 1



Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T2D	Roof Special	1	1	Job Reference (optional)	E13608503

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:47 ID:cD1F1YgTmn35YIQP7qLCqfyX8pO-NRH8VWynl8\_YrOghL1wT6SBTu8kmPDyyyeUOypyVmWs



Scale = 1.00.7	Scale	=	1:66.7
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Plate Offsets (X, Y): [2:0-5-15,Edge], [8	8:0-5-8,0-2-0], [9:0-5-4,0-1-8], [1:	2:Edge,0-5-8], [14:0-3-0,Edge],	, [17:0-7-0,0-2-0]
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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 IBC2015	/TPI2014	<b>CSI</b> TC BC WB Matrix-MS	0.60 0.82 0.75	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.21 -0.46 0.24	(loc) 14-16 14-16 12	l/defl >999 >774 n/a	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 182 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD	2x4 SP No.1 *Except' 2x4 SP No.1 *Except' 17-9:2x4 SP DSS, 14 2x4 SP No.3 *Except' Left 2x6 SP No.2 - 2 Structural wood shea 3-8-8 oc purlins, exc 2-0-0 oc purlins (4-1- Rigid ceiling directly a bracing. Except: 10-0-0 oc bracing: 14 (lb/size) 2=1247/0-3 Max Horiz 2=139 (LC Max Uplift 2=-181 (LC (lb) - Maximum Comp Tension 1-2=0/30, 2-3=-518/0	* 8-11:2x4 SP DSS * 18-7:2x4 SP No.3, -15:2x4 SP No.2 * 12-10:2x6 SP No.2 6-0 thing directly applied ept end verticals, and 1 max.): 6-8. applied or 10-0-0 oc -16 3-8, 12=1262/0-3-8 10) 2 11), 12=-189 (LC 1 pression/Maximum , 3-4=-1729/255.	1) 2) d or d 3) 4) 1) 5)	Unbalanced r this design. Wind: ASCE Vasd=95mph B=20ft; L=300 MWFRS (dire 2-0-0, Interior to 13-9-0, 1024-1 cantilever left right exposed for reactions DOL=1.60 Provide adeq * This truss h on the bottom 3-06-00 tall b chord and an All bearings a capacity of 42	roof live loads have 7-10; Vult=120mph; TCDL=6.0psf; BC ft; eave=4ft; Cat. II; ectional) and C-C E (1) 2-0-0 to 10-11. erior (1) 13-9-0 to 2 9-0, Interior (1) 24- and right exposed (c-C for members shown; Lumber DC uate drainage to pr as been designed ft n chord in all areas y 2-00-00 wide will y other members, v are assumed to be 25 osi.	been c (3-sec CDL=6.0 Exp B; xterior -8, Exter 1-9-0, to 3 ; end v and for DL=1.60 revent v for a live where fit betw with BC SPF No	onsidered for ond gust) psf; h=30ft; Enclosed; 2) -1-0-0 to rior (2) 10-11 Exterior (2) 0-11-0 zone; ertical left an css & MWFR plate grip vater ponding e load of 20.0 a rectangle een the botto DL = 10.0psf .2 crushing	r -8 d S J. J. S J. S J. S J. S J. S J. S					
BOT CHORD WEBS NOTES	4-26=-1650/295, 5-26 5-6=-1972/370, 6-27= 27-28=-1851/298, 7-2 7-8=-1844/293, 8-29= 29-30=-1976/238, 9-3 9-10=-721/125, 10-11 2-21=-103/1451, 20-2 20-31=-10/1187, 18-3 19-32=-10/1187, 18-3 19-32=-10/1187, 18-1 19-32=-10/1187, 18-1		6) 7) 33 8) 0, <b>LO</b>	Provide mech bearing plate joint 2 and 18 This truss is a International referenced st Graphical pui or the orienta bottom chord <b>AD CASE(S)</b>	anical connection capable of withsta 9 lb uplift at joint 1: Jesigned in accord Building Code sect andard ANSI/TPI 1 flin representation of tion of the purlin al- Standard	(by othe nding 1 2. ance wi ion 230 does nc ong the	ers) of truss to 81 lb uplift at 4h the 2015 6.1 and t depict the s top and/or	o			Wannah	UN ON	CAROLINE BEAL 6322 GILBERT

# October 8,2019

Page: 1



Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T2E	Нір	1	1	Job Reference (optional)	E13608504

6-10-3



Scale = 1:70.1

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.38	<b>DEFL</b> Vert(LL)	in -0.10	(loc) 17-18	l/defl >999	L/d 240	PLATES MT20	<b>GRIP</b> 244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.98	Vert(CT)	-0.31	19-20	>999	180		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.56	Horz(CT)	0.15	13	n/a	n/a		<b>FT</b> 000/
BCDL	10.0	Code	IBC2015	/TPI2014	Matrix-MS							Weight: 187 lb	F1 = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD JOINTS REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x4 SP No.1 2x4 SP No.1 *Except No.3 2x4 SP No.3 *Except Left 2x6 SP No.2 - 2 Structural wood shea 3-7-8 oc purlins, exx 2-0-0 oc purlins, exx 2-0-0 oc purlins, exx 2-0-0 oc bracing: 1: 1 Brace at Jt(s): 17 (lb/size) 2=1247/0- Max Uplift 2=-181 (Lt (lb) - Maximum Com Tension 1-2=0/30, 2-3=-560/' 4-27=-1521/225, 5-2 5-28=-1256/251, 28- 6-29=-1256/251, 6-3 30-31=-1435/264, 7- 7-8=-1429/262, 8-32 9-32=-1739/229, 9-3 10-33=-2444/266, 10 11-12=0/37, 11-13=- 2-22=-103/1423, 21- 20-21=-103/1423, 21- 20-21=-103/1423, 21- 20-21=-103/1423, 21- 20-21=-103/1423, 12- 7-18=-11/554, 17-18 15-17=-146/2101, 10 15-16=-1/206, 14-16 4-21=0//44, 4-20=-24 6-20=-438/80, 18-20 6-18=-164/52, 10-14 9-18=-714/136, 9-17	t* 19-7,15-16:2x4 SF t* 13-11:2x6 SP No.2 2-6-0 athing directly applie pept end verticals, ar -10 max.): 5-8. applied or 10-0-0 oc 7-18, 15-17 3-8, 13=1262/0-3-8 (	1) 1) 2 1) 2 d or d 3) 4) 11) 5) 6) 7) 8) //86, LC 327 5,	Unbalanced this design. Wind: ASCE Vasd=95mpl B=20ft; L=30 MWFRS (dir 2-0-0, Interio 14-4-15, Inte and right exp MWFRS for 19-9-0 to 23- zone; cantile and right exp MWFRS for 19-9-0 to 23- zone; cantile and right exp MWFRS for Provide adec * This truss I on the bottor 3-06-00 tall b chord and ar All bearings i capacity of 4 Provide mec bearing plate joint 2 and 10 This truss is International referenced s Graphical pu or the orienta bottom chorc	roof live loads have roof live loads have 7-10; Vult=120mph ; TCDL=6.0psf; BC ft; eave=4ft; Cat. II ectional) and C-C E r (1) 2-0-0 to 10-2- rior (1) 14-4-15 to 1 11-15, Interior (1) 2 ver left and right ex- lossed;C-C for mem reactions shown; Li 30 uate drainage to p uate been designed in chord in all areas by 2-00-00 wide will by other members. are assumed to be 25 psi. hanical connection capable of withsta 39 Ib uplift at joint 1 designed in accord Building Code sect tandard ANSI/TPI 1 rlin representation tion of the purlin al Standard	e been of (3-sec CDL=6.0; Exp B; Exterior 0, Exter 19-9-0, 1 23-11-11 23-11-11 posed ; bers an umber D revent v for a live where fit betw SPF Not (by othen nding 1 3. ance wition 230 1. does not ong the	L considered for ond gust) upsf; h=30ft; Enclosed; (2) -1-0-0 to or (2) 10-2-0 Exterior (2) 5 to 30-11-0 end vertical d forces & JOL=1.60 pla vater ponding e load of 20.0 a rectangle een the botto 0.2 crushing ers) of truss to 81 lb uplift at th the 2015 6.1 and t depict the s top and/or	r left te j, jpsf om			Contraction of the second seco		CARO SSICH SEAL B6322 SINEER GILDER
												Octob	er 8 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

Plate Offsets (X, Y): [2:0-5-15,Edge], [8:0-2-2,0-2-4], [10:0-5-4,0-1-8], [13:0-2-3,0-2-4], [15:0-2-8,Edge], [18:0-2-12,0-2-8], [20:0-2-8,0-2-0]



Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	Т3	Roof Special	1	1	Job Reference (optional)	E13608505

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:49 ID:81UtqCfr0TxEx8rDZ7qzHRyX8pP-KpPuwCz1HIEF5ip4SSyxBtGp4ySlt5iFPxzU1iyVmWq



Scale = 1:57.3 Plate Offsets (X, Y): [2:0-5-15,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 IBC2015	5/TPI2014	CSI TC BC WB Matrix-MS	0.62 0.66 0.86	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.32 -0.66 0.08	(loc) 14-16 14-16 12	l/defl >999 >537 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 161 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 *Excep 12-10:2x6 SP No.2 Left 2x6 SP No.2 Structural wood she 2-3-9 oc purlins, ex 2-0-0 oc purlins (2-8 Rigid ceiling directly bracing. (lb/size) 2=1247/C Max Horiz 2=139 (L Max Uplift 2=-181 (L (lb) - Maximum Con Tension 1-2=0/30, 2-3=-650, 4-21=-1493/230, 5-: 5-22=-1410/257, 6- 6-7=-5239/684, 7-8: 8-23=-1304/156, 9-: 9-10=-1498/164, 10	2-6-0 eathing directly applie cept end verticals, a 3-2 max.): 7-9. applied or 10-0-0 or -3-8, 12=1262/0-3-8 C 10) C 11), 12=-189 (LC 10) C 11), 12=-180 (LC 10) C 10) C	2) ed or nd c 3) 4) 11) 5) 6) 7) 8)	Wind: ASCE Vasd=95mpt B=20ft; L=30 MWFRS (dim 2-0-0, Interio to 13-11-8, Ir 27-9-0 to 30- exposed ; en members an- Lumber DOL Provide aded * This truss f on the bottom 3-06-00 tall b chord and ar All bearings a capacity of 4 Provide mech bearing plate joint 2 and 18 This truss is International referenced si Graphical pu	7-10; Vult=120m n; TCDL=6.0psf; ft; eave=4ft; Cat. ectional) and C-C r (1) 2-0-0 to 10- trerior (1) 13-11-1 11-0 zone; cantil d vertical left and d forces & MWFF =1.60 plate grip juate drainage to ias been designe n chord in all are by 2-00-00 wide v y other members are assumed to b 25 psi. hanical connectio capable of withs 30 lb uplift at join designed in acco Building Code se tandard ANSI/TP rlin representatio	ph (3-sec BCDL=6.0 II; Exp B; C Exterior 11-8, Exte 8 to 27-9- ever left a 4 right exp RS for rea DOL=1.60 o prevent w d for a liv as where will fit betw s. Doe SPF No on (by othe standing 1 t 12. ordance wi ection 230 U 1. on does no	ond gust) ppsf; h=30ft; Enclosed; (2) -1-0-0 to rior (2) 10-1 <sup>-1</sup> O, Exterior (2) nd right osed;C-C for- ctions shown vater ponding a load of 20.0 a rectangle een the botto 2 crushing ers) of truss to 81 lb uplift at th the 2015 6.1 and t depict the s	1-8 ) r, g, Dpsf om to t					CARO	<i>.</i>
BOT CHORD	2-16=-165/1419, 15 14-15=-174/2057, 1 12-13=0/80	-16=-174/2057, 3-14=-353/3098,	LC	or the orienta bottom chorc DAD CASE(S)	ation of the purlin I. Standard	along the	top and/or				4	NI OR	S	1
WEBS NOTES 1) Unbalance this design	4-16=-287/150, 5-1( 6-16=-1155/250, 6- 7-14=-2791/412, 9- 10-13=-96/1282, 8- 8-13=-1981/312 ed roof live loads have n.	5=-136/1134, 14=-396/3412, 13=-23/597, 14=-81/1311, been considered fo	r								THE DECKY	OCtob	SEAL 36322 SINEER. GILBE	Annun an

818 Soundside Road Edenton, NC 27932

Page: 1

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	ТЗА	Нір	1	1	Job Reference (optional)	E13608506

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:49 ID:oLCPLIpMB9SXN\_mWGe2nmzyX8pD-KpPuwCz1HIEF5ip4SSyxBtGjQyVMtFGFPxzU1iyVmWq

Page: 1

October 8,2019

818 Soundside Road Edenton, NC 27932



Scale = 1:56.7

#### Plate Offsets (X, Y): [2:0-5-15,Edge], [5:0-5-8,0-2-0], [6:0-3-8,0-2-0], [9:0-5-15,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 IBC2015	/TPI2014	<b>CSI</b> TC BC WB Matrix-MS	0.98 0.49 0.25	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.22 0.07	(loc) 12-14 12-14 9	l/defl >999 >999 n/a	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 174 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 Left 2x6 SP No.2 - 2 - 2-6-0 Structural wood sheat 4-1-13 oc purlins, exi 2-0-0 oc purlins, exi 2-0-0 oc purlins (2-2- Rigid ceiling directly) bracing. 1 Row at midpt (lb/size) 2=1257/0- Max Horiz 2=125 (LC Max Uplift 2=-182 (LC (lb) - Maximum Comp Tension 1-2=0/30, 2-3=-540/7 4-24=-1492/233, 5-2 5-25=-1234/264, 6-2 7-29=-1493/233, 7-8 9-10=0/30	-6-0, Right 2x6 SP No athing directly applied of cept -0 max.): 5-6. applied or 10-0-0 oc 5-12 3-8, 9=1257/0-3-8 : 10) C 11), 9=-182 (LC 11) pression/Maximum 7, 3-4=-1736/250, 4=-1234/264, 26=-1234/264, 9=-1424/262, =-1736/250, 8-9=-419/	2) or 3) 4) 5) 6) 7) /6, 8)	Wind: ASCE Vasd=95mpt B=20ft; L=30 MWFRS (dird 2-0-0, Interio to 15-2-7, Int 18-11-8 to 23 cantilever left right exposed for reactions DOL=1.60 Provide aded * This truss h on the botton 3-06-00 tall b chord and an All bearings a capacity of 4. Provide mecl bearing plate joint 2 and 18 This truss is International referenced st Graphical pu or the orienta	7-10; Vult=120mph a; TCDL=6.0psf; BC ft; eave=4ft; Cat. II; actional) and C-C E r (1) 2-0-0 to 10-11; erior (1) 15-2-7 to 1 3-2-7, Interior (1) 23 t and right exposed d;C-C for members shown; Lumber DC uate drainage to pri- abeen designed in a chord in all areas y 2-00-00 wide will y 2-00-00 wide will g 2-00-00 wide will y 2-00	(3-sec DL=6.( Exp B; xterior -8, Exte 8-11-8, 3-2-7 to ; end v and for DL=1.60 revent v for a liv, where fit betw with BC SPF No (by othen and on 230 - does no does no ong the	ond gust) opsf; h=30ft; Enclosed; (2) -1-0-0 to rior (2) 10-11 Exterior (2) 30-11-0 zone ertical left and ces & MWFR plate grip vater ponding a load of 20.0 a rectangle een the botto DL = 10.0psf. .2 crushing ers) of truss to 82 lb uplift at th the 2015 6.1 and t depict the s top and/or	-8 ;; d S S psf m o				NU ORTH	CAROLIN
BOT CHORD	2-15=-113/1457, 14- 13-14=-19/1260, 13- 12-30=-19/1260, 11- 9-11=-113/1436 4-15=0/74, 4-14=-29 5-12=-130/125, 6-12=	15=-113/1457, 30=-19/1260, 12=-113/1436, 5/114, 5-14=0/390, =0/329, 7-12=-294/114	LO 4,	bottom chord AD CASE(S)	l. Standard	U					Winner	03	SEAL
NOTES 1) Unbalance this design	7-11=0/74 ed roof live loads have l	been considered for									100 m	ANC AND	MNEER HALIN

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	ТЗВ	Roof Special Supported Gable	1	1	Job Reference (optional)	E13608507

1)

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:50 ID:kSolCAdyjYZg4h6eu\_HGfpyX8pS-o0zG8Y\_f23M6isOG0AUAk5pxsMuhciZPebj2Z8yVmWp

Page: 1

818 Soundside Road Edenton, NC 27932



🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign valid for use only with with every connectors. This design is based only upon 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 and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T3C	Нір	1	1	Job Reference (optional)	E13608508

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:50 ID:o4g\_nUbiBxJyqNyFmZEoaOyX8pU-o0zG8Y\_f23M6isOG0AUAk5p2kMrScdYPebj2Z8yVmWp

Page: 1

11

30-11-0 4-7-8 25-3-8 8-11-8 14-11-8 20-11-8 29-11-0 4-7-8 4-4-0 6-0-0 6-0-0 4-4-0 4-7-8 1-0-0 4x5 = 4x5 = 3x8= 5 6 ⊠ 26 27 24 25 ⊠ 7  $\bowtie$  $\bowtie$ \_1<u>2</u> 7 Г ħ 2x4 👟 2x4 🍫 8 4 6-1-12 6-0-11 4x5 👟 4x5 🧔 3 9 10 0-10-0 ₿ 15 14 13 12 3x8 = 3x4 = 3x8 = 3x10 🛛 3x10 🛛 2x4 🛛 9-1-4 14-11-8 20-9-12 29-11-0 9-1-4 5-10-4 5-10-4 9-1-4

Scale = 1:56.6

## Plate Offsets (X, Y): [2:0-5-15,Edge], [10:0-5-15,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	0.37	Vert(LL)	-0.08	12-13	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.50	Vert(CT)	-0.15	12-13	>999	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.56	Horz(CT)	0.07	10	n/a	n/a			
BCDL	10.0	Code	IBC2015	/TPI2014	Matrix-MS							Weight: 172 lb	FT = 20%	
LUMBER TOP CHORD 2x4 SP No.1 30T CHORD 2x4 SP No.1 WEBS 2x4 SP No.3 SLIDER Left 2x6 SP N 2-6-0 BRACING TOP CHORD Structural wo 4-3-4 oc purli 2-0-0 oc purli BOT CHORD Rigid ceiling bracing. REACTIONS (lb/size) 2= Max Horiz 2= Max Uplift 2=	No.2 2 bod shea ins, exce ins (5-1- directly a 1257/0-3 104 (LC 182 (LC	-6-0, Right 2x6 SP N thing directly applied apt 3 max.): 5-7. applied or 10-0-0 oc 3-8, 10=1257/0-3-8 10) 2 11), 10=-182 (LC 1	2) o.2 l or 3) 4) 1)	Wind: ASCE Vasd=95mph B=20ft; L=300 MWFRS (dire 2-0-0, Interior 13-2-7, Interior 20-11-8 to 25 cantilever left right exposed for reactions DOL=1.60 Provide adeq * This truss h on the bottom 3-06-00 tall b chord and an	7-10; Vult=120mph ; TCDL=6.0psf; BC t; eave=4ft; Cat. II; ectional) and C-C E (1) 2-0-0 to 8-11-8 or (1) 13-2-7 to 20- 5-2, Interior (1) 25 and right exposed ;C-C for members shown; Lumber DC uate drainage to pr as been designed f o chord in all areas y 2-00-00 wide will y other members.	(3-sec DL=6.( Exp B; xterior 5, Exter 11-8, E -5-2 to ; end v and for vL=1.60 event v or a live where fit betw	ond gust) psf; h=30ft; Enclosed; (2) -1-0-0 to or (2) 8-11-8 dterior (2) 30-11-0 zone ertical left and css & MWFR plate grip vater ponding a load of 20.0 a rectangle een the botto	to ; d S psf m						
FORCES (Ib) - Maximu Tension	ım Comp	pression/Maximum	5)	All bearings a capacity of 42	re assumed to be \$ 25 psi.	SPF No	.2 crushing							
TOP CHORD 1-2=0/30, 2-3 4-5=-1577/25 24-25=-1333/2 6-26=-1333/2 7-27=-1333/2 8-9=-1725/27	8=-564/0 51, 5-24= /250, 6-2 250, 26-2 250, 7-8= 71, 9-10=	), 3-4=-1725/271, 1333/250, 25=-1333/250, 27=-1333/250, 1577/251, 496/0, 10-11=0/30	6) 7)	Provide mech bearing plate joint 2 and 18 This truss is o International referenced st	anical connection ( capable of withstar 2 Ib uplift at joint 10 designed in accorda Building Code secti andard ANSI/TPI 1	(by othe nding 1 ). ance wi on 230	ers) of truss to 82 lb uplift at th the 2015 6.1 and	)				annu i	CAD	
BOT CHORD 2-15=-146/14 13-14=-91/15 10-12=-136/1	129, 14-1 591, 12-1 1429	15=-91/1591, 13=-91/1591,	8)	Graphical pur or the orienta bottom chord	lin representation of the purlin alo	loes no ong the	t depict the si top and/or	ze				IN ORTH	Sick	1111 Stig
WEBS 4-15=-174/11 6-13=0/107, 8-12=-174/11 <b>NOTES</b> 1) Unbalanced roof live load this design.	10, 5-15= 6-12=-44 10 Is have b	=-13/464, 6-15=-442/ 42/65, 7-12=-13/464, been considered for	<sup>'65,</sup> LO	AD CASE(S)	Standard						William	OS OS	EAL 6322	And the second second



C A. G 1. A. C. .... October 8,2019

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T3GRD	Hip Girder	1	2	Job Reference (optional)	E13608509

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:51 ID:K9e18zokQsKglqBKiwXYEmyX8pE-GCWfLu?HpMUzK0zTat?PGILC4I91L8cYtFSb5ayVmWo

Mon Oct 07 15:10:51 Page: 1 .8cYtFSb5ayVmWo



Scale = 1:56.4

## Plate Offsets (X, Y): [5:0-5-8,0-2-0], [14:0-4-0,0-4-4]

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	0.39	Vert(LL)	-0.10	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.60	Vert(CT)	-0.19	15-17	>999	180		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.32	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code	IBC2015	/TPI2014	Matrix-MS							Weight: 401 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP No.1 2x6 SP No.2 2x4 SP No.3 Left 2x4 SP No.3 2 2-6-0 Structural wood shee 6-0-0 oc purlins, exc 2-0-0 oc purlins (5-9- Rigid ceiling directly bracing	-6-0, Right 2x4 SP N athing directly applie ept -13 max.): 5-8. applied or 10-0-0 oc	WE No.3 NC 1) d or	EBS 4 5 7 8 9 0TES 2-ply truss to (0.131"x3") n Top chords c oc. Bottom chord staggered at		=-192/4 17=-672 )/283, 7 14=-191 ther wit s: 2x4 - ows: 2)	97, 5-18=-15, 2/323, 7-14=-1503/27 //493, h 10d 1 row at 0-9- x6 - 2 rows	/605, 76, 0	<ol> <li>9) This Interefet</li> <li>10) Grading</li> <li>10) Grading</li> <li>11) Use</li> <li>11) Use</li> <li>11) Use</li> <li>11) Use</li> <li>12) Fill</li> <li>13) "NA</li> </ol>	s truss is rnationa renced s phical pine orient om chor USP H s into Tr ting at 6 nect trus all nail h ILED" in	design I Buildi standa urlin re ation c d. JC26 (' uss) or -11-14 ss(es) t oles wi dicates	ned in accordanc ng Code section rd ANSI/TPI 1. presentation doe f the purlin along With 16-16d nails equivalent space from the left end o from the left end o from tace of bo here hanger is in s 3-10d (0.148*x3	e with the 2015 2306.1 and s not depict the size the top and/or s into Girder & 10d ed at 15-11-4 oc max. to 22-11-2 to ttom chord. contact with lumber. 3") or 3-12d
REACTIONS	bracing. (lb/size) 2=2583/0- Max Horiz 2=-84 (LC Max Uplift 2=-498 (LC	3-8, 11=2583/0-3-8 22) C 7), 11=-498 (LC 7)	2)	All loads are	ed as follows: 2x4 - considered equally d as front (F) or ba	- 1 row applied ck (B) f	at 0-9-0 oc. I to all plies, ace in the LC	AD	(0.1 LOAD ( 1) De	48"x3.25 CASE(S) ead + Ro	5") toe- Star	nails per NDS gu ndard (balanced): Lum	uidlines. hber Increase=1.15,
FORCES	(lb) - Maximum Com	pression/Maximum		provided to d	istribute only loads	noted a	as (F) or (B),		Ur	ate incre iform Lo	ase=1 ads (lt	. 15 D/ft)	
TOP CHORD	$\begin{array}{l} 1-2=0/30, 2-3=-2100\\ 4-5=-4080/822, 5-28\\ 28-29=-4652/947, 6-6-30=-4652/947, 30-31-32=-4652/947, 30-33-34=-4652/947, 7-7-35=-3556/743, 35-8-36=-3556/743, 35-8-36=-3556/743, 35-9-10=-3805/737, 10-11-12=0/30\\ 2-19=-544/3194, 18-18-37=-575/3529, 37\\ 17-38=-575/3529, 37\\ 17-38=-575/3529, 17\\ 16-39=-786/4659, 16\\ 40-41=-786/4659, 15\\ 15-42=-786/4659, 13\\ 11-13=-545/3194\\ \end{array}$	(379, 3-4=-3804/736 =-4652/947, 29=-4652/947, 31=-4652/947, 34=-4652/947, 34=-4652/947, 36=-3556/743, =-4075/819, 11=-2060/379, 19=-544/3194, -38=-575/3529, -39=-786/4659, i-41=-786/4659, i-41=-786/4659, i-43=-786/4659, i-14=-545/3194,	5) 6) 7) 8)	unless otherw Unbalanced r this design. Wind: ASCE Vasd=95mph B=20ft; L=300 MWFRS (dirre end vertical le plate grip DO Provide adeq * This truss h on the bottom 3-06-00 tall b chord and an All bearings a capacity of 42 Provide mech bearing plate joint 2 and 49	vise indicated. oof live loads have 7-10; Vult=120mph ; TCDL=6.0psf; BC ft; eave=4ft; Cat. II; cotional); cantilever eft and right expose L=1.60 uate drainage to pr as been designed f n chord in all areas y 2-00-00 wide will y other members. are assumed to be \$ 25 psi. nanical connection ( capable of withstar 8 lb uplift at joint 1*	been of (3-sec DL=6.( Exp B; left and d; Lum revent w fit betw SPF No (by othe nding 4 1.	considered for ond gust) Dpsf; h=30ft; Enclosed; d right expose ber DOL=1.6 vater ponding e load of 20.0 a rectangle recen the botto 0.2 crushing ers) of truss to 98 lb uplift at	ed; 0  ppsf pm	Cc	Vert: 1-5	5=-60, ted Loa	5-8=-60, 8-12=-6 ads (lb)	CARO SEAL B6322

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

## AMITEK Affiliate B18 Soundside Road Edenton, NC 27932

October 8,2019

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T3GRD	Hip Girder	1	2	Job Reference (optional)	E13608509

Vert: 5=-121 (F), 8=-121 (F), 18=-535 (F), 14=-535 (F), 28=-121 (F), 29=-121 (F), 30=-121 (F), 32=-121 (F), 34=-121 (F), 35=-121 (F), 36=-121 (F), 37=-70 (F), 38=-70 (F), 39=-70 (F), 40=-70 (F), 41=-70 (F), 42=-70 (F), 43=-70 (F)

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:51 ID:K9e18zokQsKglqBKiwXYEmyX8pE-GCWfLu?HpMUzK0zTat?PGILC4l91L8cYtFSb5ayVmWo Page: 2



Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	Т4	Common	6	1	Job Reference (optional)	E13608510

Scale = 1:51.9

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:52 ID:kSolCAdyjYZg4h6eu\_HGfpyX8pS-kO41ZE0wagcqy9Yf8bWepWuPi9Zr4d7h6vC9e0yVmWn

Page: 1



							1								-
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	0.27	Vert(LL)	-0.11	10-11	>999	240	MT20	244/190
TC	DL		10.0	Lumber DOL	1.15		BC	0.38	Vert(CT)	-0.17	10-11	>999	180		
BCL	L		0.0*	Rep Stress Incr	YES		WB	0.17	Horz(CT)	0.03	8	n/a	n/a		
BCI	DL		10.0	Code	IBC201	5/TPI2014	Matrix-MS							Weight: 120 lb	FT = 20%
					3)	* This trues I	has been designed	for a liv	e load of 20 (						
TOF		2v4 SP No	1		5)	on the botto	m chord in all areas	where	a rectangle	000					
BOT	TCHORD	2x4 SP No	1			3-06-00 tall I	ov 2-00-00 wide wil	l fit betw	een the bott	om					
WE	BS	2x4 SP No.	.3			chord and a	ny other members,	with BC	DL = 10.0pst	f.					
SLI	DER	Left 2x6 SF	9 No.2 2	2-6-0, Right 2x6 SP I	No.2 4)	All bearings	are assumed to be	SPF No	0.2 crushing						
		2-6-0		, 0		capacity of 4	25 psi.								
BR/	ACING				5)	Provide med	hanical connection	(by oth	ers) of truss t	to					
TOF	P CHORD	Structural v	wood shea	athing directly applie	ed or	bearing plate	e capable of withsta	anding 1	43 lb uplift at	t					
		5-6-11 oc p	ourlins.		0)	joint 2 and 1	43 lb uplift at joint 8	5. Iomeo 114	th the 2015						
BO	T CHORD	Rigid ceilin	g directly	applied or 10-0-0 oc	5 6)	I NIS Truss IS	Building Code sec	tion 230	th the 2015						
		bracing.				referenced s	tandard ANSI/TPL	1	o. r anu						
RE/	ACTIONS	(lb/size) 2	2=937/0-3	-8, 8=937/0-3-8	10	AD CASE(S)	Standard								
		Max Horiz 2	2=-125 (LC	C 9)			Standard								
		Max Uplift 2	2=-143 (LC	C 11), 8=-143 (LC 1	1)										
FOF	RCES	(lb) - Maxin	num Com	pression/Maximum											
		Tension													
IOF	CHORD	1-2=0/30, 2	2-3=-412/0	), 3-4=-1188/191,											
		4-21=-1094	+/218, 5-2 2/237 6-2'	1=-1013/237, 2=-1004/218											
		6-7=-1188/	191 7-8=	-389/0 8-9=0/30											
BO	T CHORD	2-12=-90/1	023. 11-1	2=-63/1023.											
		11-23=0/71	3, 23-24=	=0/713, 10-24=0/713	3.										anna -
		8-10=-63/9	79	,	,									and the second s	CAD
WE	BS	5-10=-65/4	56, 6-10=·	-264/157, 5-11=-65/	/456,									"ATH	UARO
		4-11=-264/	157											NON	SEID. ANI
NO	TES													S Propri	Nin
1)	Unbalance	ed roof live lo	ads have I	been considered for	r								Z		JA
	this design	٦.											1	10	
2)	Wind: ASC	CE 7-10; Vult	=120mph	(3-second gust)									-	: 5	SEAL :
	Vasd=95m	nph; TCDL=6	.0psf; BCI	DL=6.0psf; h=30ft;										03	6322
	B=20ft; L=	22ft; eave=4	it; Cat. II; I	Exp B; Enclosed;									Ξ		
		rior (1) 2 0 0	to 10 11 0	(10101)(2) - 1 - 0 - 0 (0)	0								-		1 2
	to 13-11-8	Interior (1) 2-0-0	13-11-8 to	22-11-0 zone	-0								S	· A. En	Rik S
	cantilever	left and right	exposed .	end vertical left and	d									1 A	INEFRAS
	right expos	sed;C-C for n	nembers a	and forces & MWFR	S									M.C.	OIL BE IN
	for reaction	ns shown; Lu	mber DOI	L=1.60 plate grip										11, A	. GIL
	DOL=1.60	1												111	mmm
														Octob	er 8,2019

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T4A	Нір	1	1	Job Reference (optional)	E13608511

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:53 ID:GGEM\_qcKyFRpSXXRKHI17byX8pT-CbePma1YL\_IhZJ7rhI1tMjRciZtop57rKZxiATyVmWm

Page: 1



Scale = 1:46.7

### Plate Offsets (X, Y): [2:0-5-11,0-0-2], [6:0-5-8,0-2-0], [9:0-5-11,0-0-2]

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)	-0.04	11-12	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.39	Vert(CT)	-0.11	11-20	>999	180			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.13	Horz(CT)	0.03	9	n/a	n/a		FT 000/	
BCDL	10.0	Code	IBC201	5/TPI2014	Matrix-MS							Weight: 126 lb	FI = 20%	
LUMBER			3)	Provide adeo	uate drainage to pro	event v	vater ponding	g.						
TOP CHORD	2x4 SP No.1		4)	* This truss h	as been designed fo	or a liv	e load of 20.0	Opsf						
BOT CHORD	2x4 SP No.1			on the bottor	n chord in all areas	where	a rectangle							
WEBS	2x4 SP No.3			3-06-00 tall b	y 2-00-00 wide will	fit betw	veen the botto	om						
SLIDER	Left 2x6 SP No.2 2	2-6-0, Right 2x6 SP	No.2	chord and ar	ly other members.		0							
	2-6-0		5)	All bearings	are assumed to be S	SPF NO	5.2 crushing							
BRACING	<b>.</b>			Provide med	20 psi. hanical connection (	by oth	ers) of truss t	0						
TOP CHORD	Structural wood shea	athing directly appli	ed or	bearing plate	capable of withstar	ndina 1	43 lb uplift at							
	5-7-6 oc purlins, exc	ept		joint 2 and 1	13 lb uplift at joint 9.									
	Pigid ceiling directly	applied or 10-0-0 o	7)	, This truss is	designed in accorda	ance w	ith the 2015							
	bracing	applied of 10-0-0 0		International	Building Code section	on 230	6.1 and							
REACTIONS	(lb/size) 2=937/0-3	-8 9=937/0-3-8		referenced s	tandard ANSI/TPI 1.									
	Max Horiz 2=-104 (I)	C 9)	8)	Graphical pu	rlin representation d	loes no	ot depict the s	size						
	Max Uplift 2=-143 (L0	C 11). 9=-143 (LC <sup>2</sup>	11)	or the orienta	ation of the purlin ald	ong the	top and/or							
FORCES	(lb) - Maximum Com	pression/Maximum	,											
	Tension		L	JAD CASE(S)	Standard									
TOP CHORD	1-2=0/30, 2-3=-522/0	), 3-4=-1179/205,												
	4-5=-1014/183, 5-6=	-823/189,												
	6-7=-1014/183, 7-8=	-1179/206, 8-9=-51	1/0,											
	9-10=0/30	0 00/004 44 40 4	0/000											
BOICHORD	2-13=-122/981, 12-1	3=-80/981, 11-12=0	0/822,											
WEBS	9-11=-00/901	-0/2/1 6-1202/0	1									"TH	CARO	
WLD5	6-11=0/241 7-11=-2	18/118	, ,									i Ri		11
NOTES	0 11=0/211, 7 11= 2	10/110										S all		1
1) Unbalance	ed roof live loads have	been considered fo	or								4	- 12	Ma.	
this design	ומיטי וועט וטמנט וומיט ו.										-	:*		
2) Wind: AS	CE 7-10; Vult=120mph	(3-second gust)									- 5		SEAL	
Vasd=95n	nph; TCDL=6.0psf; BCI	DL=6.0psf; h=30ft;										: 07	6222	: :
B=20ft; L=	22ft; eave=4ft; Cat. II;	Exp B; Enclosed;									1	: 03	56322	: :
MWFRS (	directional) and C-C E>	cterior (2) -1-0-0 to									-			
2-0-0, Inte	erior (1) 2-0-0 to 8-11-8	, Exterior (2) 8-11-8	3 to								5	A.A.	ail	- E
17-4-1, Int	terior (1) 17-4-1 to 22-1	1-0 zone; cantileve	er left									S SNO	SINEE	15
exposed (	C-C for members and for	orces & MWFRS for	r									1110	BE	1
reactions	shown: Lumber DOI =1	.60 plate grip	•									Min A	. GILL IN	
DOL=1.60	)	ice plate grip										1111	unun	
												Octob	er 8.2019	

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T4GRD	Hip Girder	1	2	Job Reference (optional)	E13608512

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:54 ID:kjKAm\_qdjniFcIvvN34FrOyX8pB-CbePma1YL\_IhZJ7rhI1tMjRcCZtIp40rKZxiATyVmWm

Page: 1

October 8,2019

818 Soundside Road Edenton, NC 27932



#### Plate Offsets (X, Y): [5:0-5-8,0-2-0], [7:0-5-8,0-2-0]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IBC20	15/TPI2014	CSI TC BC WB Matrix-MS	0.16 0.43 0.13	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.07 0.03	(loc) 14 14 10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 303 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP No.1 2x6 SP No.2 2x4 SP No.3 Left 2x4 SP No.3 2 2-6-0 Structural wood shea 6-0-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing.	2-6-0, Right 2x4 SP N athing directly applie ept -0 max.): 5-7. applied or 10-0-0 oc	1 No.3 d or 2	<ul> <li>2-ply truss to (0.131"x3") r Top chords o oc.</li> <li>Bottom chorr staggered at Web connect</li> <li>All loads are except if not CASE(S) se provided to o unless other</li> </ul>	be connected togo ails as follows: connected as follow ds connected as follow ds connected as follows: ted as follows: 2x4 considered equally ed as front (F) or bi- ction. Ply to ply con- fistribute only loads wise indicated. roof live loads have	ether wit vs: 2x4 - llows: 2x - 1 row / applied ack (B) f intections s noted a been of	h 10d 1 row at 0-9 6 - 2 rows at 0-9-0 oc. t to all plies, ace in the LC s have been as (F) or (B),	-0 DAD	<ol> <li>Use nail: star coni</li> <li>Fill ;</li> <li>TA (0.1</li> <li>UADOD ( 1) De Pla Un</li> </ol>	USP H. s into Tr ting at 6 nect trus all nail h ILED" in 48"x3.29 <b>CASE(S)</b> ad + Ro ate Incre- iform Lo Vert: 1-5	JC26 ( <sup>1</sup> uss) or -11-14 ss(es) t oles windicates 5") toe- <b>)</b> Star pof Live ease=1 boads (lt 5=-60,	With 16-16d nails equivalent spac from the left end o front face of bc here hanger is in s 3-10d (0.148"x; -nails per NDS gu ndard e (balanced): Lun .15 b/ft) 5-7=-60, 7-11=-6	into Girder & 10d ed at 7-11-4 oc max. to 14-11-2 to ttom chord. contact with lumber. 3") or 3-12d jidlines. aber Increase=1.15,
REACTIONS FORCES	(lb/size) 2=1880/0 Max Horiz 2=84 (LC Max Uplift 2=-372 (L (lb) - Maximum Com	·3-8, 10=1880/0-3-8 23) C 7), 10=-372 (LC 7) pression/Maximum	)	<ul> <li>b) b) b</li></ul>	7-10; Vult=120mp n; TCDL=6.0psf; B( ift; eave=4ft; Cat. II	h (3-sec CDL=6.( ; Exp B;	ond gust) opsf; h=30ft; Enclosed;		Co	oncentra Vert: 5= (F), 6=-´ (F), 30=	ted Loa -121 (F 121 (F) -70 (F)	ads (Ib) F), 7=-121 (F), 15 , 13=-535 (F), 27 , 31=-70 (F)	=-535 (F), 14=-70 =-121 (F), 28=-121
TOP CHORD	lension 1-2=0/30, 2-3=-1491 4-5=-2804/600, 5-26 26-27=-2735/605, 6- 6-28=-2735/605, 28- 7-29=-2735/605, 7-8 8-9=-2697/538, 9-10	/267, 3-4=-2697/538 =-2735/605, 27=-2735/605, 29=-2735/605, =-2804/600, =-1470/267, 10-11=(	3, 5 6 0/30	MWFRS (dir end vertical plate grip DC ) Provide ader ) * This truss I on the bottor 3-06-00 tall	ectional); cantileve eft and right expos DL=1.60 quate drainage to p nas been designed n chord in all areas v 2-00-00 wide wil	r left and ed; Lum prevent v for a live where	I right expose ber DOL=1.6 vater ponding load of 20.0 a rectangle	ed ; 30 g. Opsf				, mm	
BOT CHORD	2-17=-377/2267, 16- 15-16=-377/2267, 16- 14-30=-379/2418, 14- 13-31=-379/2418, 12 10-12=-377/2267	17=-377/2267, 5-30=-379/2418, 4-31=-379/2418, 2-13=-377/2267,	7 8	<ul> <li>chord and ar</li> <li>chord and ar</li> <li>All bearings</li> <li>capacity of 4</li> <li>Provide mec</li> <li>bearing plate</li> </ul>	by 2-00-00 wide will are assumed to be 25 psi. hanical connection capable of withsta	SPF No (by othe anding 3	2 crushing ers) of truss t 2 lb uplift at	:0 :			4	NORTH NORTH	SSO
WEBS	4-17=-213/83, 4-15= 5-14=-105/533, 6-14 7-14=-105/533, 7-13 8-13=-189/278, 8-12	189/278, 5-15=-54/0 =-534/263, =-54/646, =-213/83	646, ç	joint 2 and 3 ) This truss is International referenced s	72 lb uplift at joint 1 designed in accord Building Code sec tandard ANSI/TPI	I0. lance wi tion 230 1.	th the 2015 6.1 and				THE DAY	03	SEAL
NUTED			1	or the orienta bottom chore	ation of the purlin a d.	long the	top and/or	ы∠е				A SNO	GILBERT

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	Т5	Jack-Open	14	1	Job Reference (optional)	E13608513

#### Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:55 ID:o4g\_nUbiBxJyqNyFmZEoaOyX8pU-8zm9BF2otb?PpdHEpj3LR8WsWNZtH0a8otQpELyVmWk





Scale = 1:33.7

Plate Offsets (	X, Y): [2:0-2-4,0-0-2	]												
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 IBC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.56 0.42 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.12 -0.21 0.06	(loc) 5-8 5-8 2	l/defl >680 >404 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 30 lb	<b>GRIP</b> 244/190 FT = 20%	
FORCES TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=95m B=20ft; L= MWFRS ((	2x4 SP No.1 2x4 SP No.1 2x4 SP No.1 Left 2x6 SP No.2 Structural wood sh 6-0-0 oc purlins. Rigid ceiling directl bracing. (lb/size) 2=340/0 5=90/ M Max Horiz 2=164 (I Max Uplift 2=-21 (L Max Grav 2=340 (L (LC 16) (lb) - Maximum Con Tension 1-2=0/30, 2-3=-279 4-10=-66/85 2-5=-222/246 CE 7-10; Vult=120mp nph; TCDL=6.0psf; B :20ft; eave=4ft; Cat. II directional) and C-C B	2-6-0 eathing directly applie y applied or 10-0-0 o -3-8, 4=181/ Mechan echanical .C 11) C 11), 4=-94 (LC 11) .C 1), 4=181 (LC 1), 5 mpression/Maximum W60, 3-10=-75/49, h (3-second gust) CDL=6.0psf; h=30ft; ; Exp B; Enclosed; Exterior (2) -1-0-0 to	IBC201 5) ed or c ical, 5=91	5/TPI2014 Provide mec bearing plate 4 and 21 lb u This truss is International referenced s DAD CASE(S)	Matrix-MP hanical connectio e capable of withs uplift at joint 2. designed in accor Building Code se tandard ANSI/TPI Standard	n (by othe tanding 9 rdance wi ction 230	ers) of truss 4 lb uplift at j th the 2015 6.1 and	to joint	2		тла	Weight: 30 lb	FT = 20%	11, 11, 11, 11, 11, 11, 11, 11, 11, 11,
<ul> <li>and right e</li> <li>and right e</li> <li>exposed;C</li> <li>reactions s</li> <li>DOL=1.60</li> <li>2) * This truss</li> <li>on the bott</li> <li>3-06-00 ta</li> <li>chord and</li> <li>All bearing</li> <li>capacity o</li> <li>4) Refer to gi</li> </ul>	And (1) 2-0-0 to 8-10- exposed ; end vertical 2-C for members and shown; Lumber DOL= ) s has been designed tom chord in all areas (II by 2-00-00 wide wil any other members. Js are assumed to be f 425 psi. irder(s) for truss to tr	In 2006, califie ver the left and right forces & MWFRS for =1.60 plate grip for a live load of 20.0 s where a rectangle I fit between the botto SPF No.2 crushing uss connections.	Dpsf								Comment.	Octob	SEAL 36322 SINEER GILBE	Au



Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	Т6	Jack-Open	4	1	Job Reference (optional)	E13608514

#### Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:55 ID:o4g\_nUbiBxJyqNyFmZEoaOyX8pU-8zm9BF2otb?PpdHEpj3LR8Ww5NdSH0a8otQpELyVmWk





818 Soundside Road Edenton, NC 27932



#### 3x6 ∎

4-11-15

Scale = 1:29

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

	( ) , E =	,										
Loading	(psl	) Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.03	5-8	>999	240	MT20	244/190
TCDL	10.	) Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.05	5-8	>999	180		
BCLL	0.	)* Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.	Code	IBC2015/TPI2014	Matrix-MP		. ,					Weight: 24 lb	FT = 20%
LUMBER			5) Provide m	echanical connection	on (by oth	ers) of truss	to					
TOP CHORD	2x4 SP No.1		bearing p	ate capable of withs	standing 6	8 lb uplift at j	joint					
BOT CHORD	2x4 SP No.1		4 and 23	b uplift at joint 2.		wheel - 0045						
SLIDER	Left 2x6 SP No.2	2-6-0	6) I NIS TRUSS	is designed in acco	ordance wi	ith the 2015						
BRACING			Internatio			o. r and						
TOP CHORD	Structural wood 4-11-15 oc purlir	sheathing directly appli s.	ed or LOAD CASE	<b>Standard ANSI/TP</b> <b>S)</b> Standard	11.							
BOT CHORD	Rigid ceiling dire bracing.	ctly applied or 10-0-0 o	C									
REACTIONS	(lb/size) 2=263 5=63/	/0-3-8, 4=129/ Mechan Mechanical	ical,									
	Max Horiz 2=125	(LC 11)										
	Max Uplift 2=-23	(LC 11), 4=-68 (LC 11)										
	Max Grav 2=263	(LC 1), 4=129 (LC 16)	, 5=63									
	(LC 16	5)										
FORCES	(lb) - Maximum ( Tension	compression/Maximum										
TOP CHORD	1-2=0/30, 2-3=-1 2-5=-131/137	79/0, 3-4=-51/63										
NOTES	20 100.10											
1) Wind AS	CE 7-10: \/ult=120r	onh (3-second quet)										
Vacd-95r	mph: TCDI -6 Opef:	BCDI =6 Opef: b=30ft.										111111
B=20ft   =	=20ft eave=4ft Cat	II: Exp B: Enclosed:										CAD
MWFRS (	(directional) and C-	C Exterior (2) -1-0-0 to									"TH	UNHO
2-0-0, Inte	erior (1) 2-0-0 to 4-1	1-3 zone; cantilever lef	ft								NOT	ESSim Ar
and right	exposed ; end verti	cal left and right								1	10: 4 Y	Nati
exposed;(	C-C for members a	nd forces & MWFRS for	r							4	1KI	100. 2
reactions	shown; Lumber DC	L=1.60 plate grip								-		
DOL=1.60	0									=	1 1	SEAL :
2) * This trus	ss has been design	ed for a live load of 20.0	Opsf							=	: 0	26222 :
on the bo	ttom chord in all are	as where a rectangle								1	: 0.	50522
3-06-00 ta	all by 2-00-00 wide	will fit between the bott	om							-		
chord and	any other member	S.								-	A.A.	airs
3) All bearing	gs are assumed to	be SPF No.2 crushing									1 Co NN	GINEE
(A) Refer to a	u 425 psi. hirdor(s) for trucc to	truce connections									1710	DENN
4) Reler to g		uuss connections.									IL A	GILDIN
											1111	mum
											Octob	er 8,2019
											00101	

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T6A	Jack-Open	4	1	Job Reference (optional)	E13608515

#### Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:56 ID:o4g\_nUbiBxJyqNyFmZEoaOyX8pU-8zm9BF2otb?PpdHEpj3LR8Ww5NdSH0a8otQpELyVmWk

Page: 1



#### 3x6 ш

4-11-15

Scale = 1:29

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

				-								
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	0.26	Vert(LL)	0.03	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.05	5-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP	-						Weight: 24 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD	2x4 SP No.1 2x4 SP No.1 Left 2x6 SP No.2 Structural wood sho	2-6-0 eathing directly applie	5) Provide me bearing plat 4 and 23 lb 6) This truss is Internationa referenced : LOAD CASE(S)	chanical connection e capable of withst uplift at joint 2. designed in accor I Building Code se standard ANSI/TPI Standard	n (by othe tanding 6 rdance wi ction 230 1.	ers) of truss t 8 lb uplift at j th the 2015 6.1 and	o oint					
BOT CHORD	Rigid ceiling directly bracing.	/ applied or 10-0-0 oc		Otandard								
REACTIONS	(ID/SIZE) 2=263/U- 5=63/ Me Max Horiz 2=125 (L Max Uplift 2=-23 (L Max Grav 2=263 (L (LC 16)	3-6, 4=129/ Mechani echanical C 11) C 11), 4=-68 (LC 11) C 1), 4=129 (LC 16),	5=63									
FORCES	(lb) - Maximum Cor Tension	npression/Maximum										
TOP CHORD BOT CHORD	1-2=0/30, 2-3=-179 2-5=-131/137	/0, 3-4=-51/63										
NOTES 1) Wind: ASC Vasd=95m B=20ft; L= MWFRS ( 2-0-0, Inte and right e exposed;C reactions s DOL=1.60 2) * This trus on the bot 3-06-00 ta chord and 3) All bearing capacity o 4) Refer to gi	CE 7-10; Vult=120mpl nph; TCDL=6.0psf; BG 20ft; eave=4ft; Cat. II arior (1) 2-0-0 to 4-11- exposed ; end vertical C-C for members and shown; Lumber DOL= ) is has been designed tom chord in all areas all by 2-00-00 wide wil any other members. gs are assumed to be if 425 psi. irder(s) for truss to tru	n (3-second gust) DDL=6.0psf; h=30ft; ; Exp B; Enclosed; ; xterior (2) -1-0-0 to 3 zone; cantilever left left and right forces & MWFRS for :1.60 plate grip for a live load of 20.0 where a rectangle If the tween the botto SPF No.2 crushing uss connections.	psf m							Within	OCtob	CARO SEAL 36322 GINEER GILBER GILBER Munitivity Ser 8,2019



Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	Т7	Jack-Open	4	1	Job Reference (optional)	E13608516

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:56 ID:GGEM\_qcKyFRpSXXRKHI17byX8pT-cAKYOb3Qev7GRnsQNQaazM38im?x0TqH1XAMnoyVmWj

Page: 1





2-11-15

Plate Offsets (X, Y): [2:0-1-12,0-0-2]

Fiale Olisels	(^, 1). [2.0-1-12,0-0-2	-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 IBC2015	/TPI2014	CSI TC BC WB Matrix-MP	0.08 0.05 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 5-8 5-8 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	<b>GRIP</b> 244/190 FT = 20%	
BCDL LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASI Vasd=95r B=20ft; L= MWFRS ( 2-0-0, Inte and right exposed;( reactions DOL=1.6( 2) * This trus on the bol 3-06-00 tz chord and ( 2) * This trus on the bol 3-06-00 tz chord and ( 2) * This trus on the bol 3-06-00 tz chord and ( 2) * Refer to g	10.0 2x4 SP No.1 2x4 SP No.1 Left 2x6 SP No.2 Structural wood she 2-11-15 oc purlins. Rigid ceiling directly bracing. (Ib/size) 2=188/0- 5=32/Me Max Horiz 2=85 (LC Max Uplift 2=-26 (LC Max Grav 2=188 (Li (LC 16) (Ib) - Maximum Con Tension 1-2=0/30, 2-3=-145/ 2-5=-48/48 CE 7-10; Vult=120mpt mph; TCDL=6.0psf; BC =20ft; eave=4ft; Cat. II; (directional) and C-CE exposed ; end vertical C-C for members and f shown; Lumber DOL= 0) ss has been designed fi tom chord in all areas all by 2-00-00 wide will 4 any other members. gs are assumed to be of 425 psi. jirder(s) for truss to tru	Code 2-6-0 eathing directly applie r applied or 10-0-0 oc 3-8, 4=75/ Mechanica chanical 11) C 11), 4=-77 (LC 16), 5 mpression/Maximum (37, 3-4=-31/41 n (3-second gust) CDL=6.0psf; h=30ft; Exp B; Enclosed; ixterior (2) -1-0-0 to 3 zone; cantilever left left and right forces & MWFRS for 1.60 plate grip for a live load of 20.0 where a rectangle fit between the botto SPF No.2 crushing iss connections.	IBC2015 5) 6) d or LO al, ==33	/TPI2014 Provide mecl bearing plate 4 and 26 lb u This truss is International referenced st <b>AD CASE(S)</b>	Matrix-MP hanical connection capable of withst plift at joint 2. designed in accorr Building Code set tandard ANSI/TPI Standard Standard	n (by oth anding 4 dance wi ction 230 1.	ers) of truss t 2 lb uplift at j ith the 2015 i6.1 and	to joint			Wenner, .		EFT = 20%	
												Octob	er 8,2019	



Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	T7A	Jack-Open	4	1	Job Reference (optional)	E13608517

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:57 ID:o4g\_nUbiBxJyqNyFmZEoaOyX8pU-5Muwcx42PCF72xRcw86pWZbISALAkw4RFBvwJEyVmWi



12 7 Г



Page: 1



3x6 ш

2-11-15

Scale = 1:27.9

Plate Offsets (X, Y): [2:0-1-12,0-0-2]

<ul> <li>Lading (rst) (r</li></ul>		(.,,.). [=										-	
<ul> <li>TCLL (root)</li> <li>20.0</li> <li>Pistes Incr</li> <li>YES</li> <li>Weight: 17 lb</li> <li>Rep Stress Incr</li> <li>YES</li> <li>Weight: 17 lb</li> <li>FT = 20%</li> <li>Standard</li> <li>Standa</li></ul>	Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCDL       10.0       Lumber DOL       1.15       BC       0.00       Ver(CT)       0.00       5.8       999       180         BCDL       10.0       Code       VES       WB       0.00       Ver(CT)       0.00       5.8       999       180         BCDL       10.0       Code       Ver(CT)       0.00       2       n/a       N/a         BCDL       10.0       Code       Ver(CT)       0.00       2       n/a       N/a         DC CHORD       2x4 SP No.1       Structural wood sheathing directly applied or introduced with the 2015       International Building Code section 2206.1 and referenced standard ANSITP1 - LOAD CASE(S)       Standard       Standard       DAD CASE(S)       Standard         REACTONS       (bickiez)       2-8180-3-8.4-75/ Mechanical, 5-32/ Mechanical, 5-32/ Mechanical, 5-32/ Mechanical, 5-32/ Mechanical, 5-32/ Mechanical, 5-32/ Mechanical, CC (1)       This trus is a beam of the 2015       International Building Code section 2206.1 and referenced standard ANSITP1 - LOAD CASE(S)       Standard         FORCES       (b) - Maximum Compression/Maximum Tension       Tension       Code       Standard       Standard         10       Virait, ASCE 7-10; Vulta-120mph (3-second gust)       Vsad-Sempting, Tumber DOL-160 paties and force aline and right exposed, end vertice antipe and rote ashine for a line and right exposed, end vertical	TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.08	Vert(LL)	0.00	5-8	>999	240	MT20	244/190
<ul> <li>BCDL 0.01 Rep Stress Incr YES (Matrix MP)</li> <li>Code IBC20157P12014 Matrix MP</li> <li>Matrix MP</li></ul>	TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	5-8	>999	180	-	
BCDL     10.0     Code     IBC2015/TPI2014     Matrix-MP     Weight: 17 lb     FT = 20%       LUMBER TOP CHORD     2x4 SP No.1     Smctural wood sheathing directly applied or 2x4 SP No.1      Smctural wood sheathing directly applied or 2x4 SP No.1     Smctural wood sheathing directly applied or 2x1-15 co putitis.     Smctural wood sheathing directly applied or 2x10 CHORD     Smctural wood sheathing directly applied or 3x10 CHORD     Smctural woo	BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
<ul> <li>LUMBER TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 SUDER Left 2x6 SP No.2 - 2-6-0</li> <li>Bracting TOP CHORD Structural wood sheathing directly applied or 2011-15 oc purifies.</li> <li>BOT CHORD Ngid celling directly applied or 10-0-0 oc bracing.</li> <li>REACTIONS (Ibsize) 2-1880-3-8, 4-75/ Mechanical, 5-32/ Mechanical Max Horiz 2-85 (LC 11), 4-47 (LC 10), 5-33 (LC 16)</li> <li>FORCES (b): Maximum Compression/Maximum Tension</li> <li>TOP CHORD 1:2-030, 2:3145/37, 3-431/41 BOT CHORD 2:2-5-48/48</li> <li>NOTES 1) Wind: ASCE 7-10; Vult-120mph (3-second gust) Yasd-desmph; TCDL-64 Ops; IbcDL=6.0 ps; h=-301; B=201; L=201; cave-4fi: Ca: II. Exp B; Enclosed; MWYRS (directiona) and Croc Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-00 0:2 -145/37, 3-431/41 BOT CHORD 2:2-6-30/48</li> <li>Notices 3) All bearings are assumed to be SPF No.2 crushing capacity of 242 55.</li> <li>Refer to girder(s) for truss to truss connections.</li> </ul>	BCDL	10.0	Code	IBC2015/TPI2	014 Matrix-MP							Weight: 17 lb	FT = 20%
TOP CHORD       2x4 SP No.1       bearing plate capable of withstanding 42 built at joint 4 and 28 built at joint 4 and 18 built 4 b	LUMBER			5) Prov	ide mechanical connec	tion (by oth	ers) of truss t	0					
BOT CHORD       2x4 SP No.1       4 and 26 lb uplif at joint 2.         SUIDER       Left 2x6 SP No.2 - 2.6-0       6)         BRACING       5)       This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSUTP1 1.         COP CHORD       Structural wood sheathing directly applied or 10-0-0 oc bracing.       5-320 Mechanical         Structural wood sheathing directly applied or 10-0-0 oc bracing.       5-320 Mechanical         Max Horiz 2 = 26 (LC 11)       4-4-2 (LC 11)         Max Kuriz 2 = 26 (LC 11)       4-4-2 (LC 11)         Max Kuriz 2 = 26 (LC 11)       4-4-2 (LC 11)         Max Kuriz 2 = 26 (LC 11)       4-4-2 (LC 11)         Max Grav 2 = 188 (LC 1), 4-4-27 (LC 16), 5=33 (LC 16)       1-4-20 (30, 2-3-145/37, 3-4-31/41         BOT CHORD       12-0/30, 2-3-145/37, 3-4-31/41       5-00-00 talk         BOT CHORD       12-0/30, 2-3-145/37, 3-4-31/41       5-00-00 talk         BOT CHORD       12-0/16 eave-aft; Cat. II; Exp B; Enclosed;       MWFRS (for reactions shown; Lumber DOL-1.60 pish e solt;         WOTES       10)       Wint S SCE 7-10; Vull= 120mph (3-second gust)       Second gust)         Vasad-Semptrix T(1)       1-0-0 to 2-1-130 core; cantilever left and right exposed; end work lead of 20.0psf rom breas and forces 8. MWFRS for reactions shown; Lumber DoL-1.60 plate grip       SEAL       0363222       0363222	TOP CHORD	2x4 SP No.1		bear	ing plate capable of wit	hstanding 4	2 lb uplift at j	oint					
<ul> <li>SLIDER Left 2x6 SP No.2 - 2-6-0</li> <li>In truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANS/ITP1 1.</li> <li>LOAD CASE(5) Standard</li> <li>BOT CHORD Rigid ceiling directly applied or 10-0-0 or bracing.</li> <li>REACTIONS (Ib/size) 2-188/0-3-8.4-75/ Mechanical. 5-23/ Mechanical. 5-23/ Mechanical. 5-23/ Mechanical (LC 16) 14-77 (LC 16), 5-33 (LC 16)</li> <li>FORCES (Ib) - Maximum Compression/Maximum Tension (LC 16)</li> <li>FORCES (Ib) - Maximum Compression/Maximum Tension (LC 16)</li> <li>TOP CHORD 2-5-43/48</li> <li>MOTES</li> <li>WWFFR 5 (Intercional) and C - Extrain (C) 1-0-0 to 2-50-2011; E-2011; e-2012; e-21-43/37, 3-4=-31/41</li> <li>BOT CHORD 2-50-0, 12-60 to 2-11-3 zone, cantilever left and right exposed - for ventile left and right exposed C - C Extrain (C) 1-0-0 to 2-00, 1-80 plate grip DoLe-1.60 plate grip DoLe-1.60 plate grip 2-00-00 widw will in between the bottom chord in all areas where a tectangle 3-06-00 all by 2-00-00 widw will in between the bottom chord and are submets.</li> <li>Al Refer to girder(s) for truss to truss connections.</li> </ul>	BOT CHORD	2x4 SP No.1		4 an	d 26 lb uplift at joint 2.								
<ul> <li>BRACING</li> <li>BRACING</li> <li>Structural wood sheathing directly applied or 2-11-15 oc purifies.</li> <li>BOT CHORD</li> <li>Bot CHORD</li> <li>Bot CHORD</li> <li>CarlsB0-3-8, 4=75 / Mechanical, 5=32/ Mechanical</li> <li>S=32/ Mechanical</li> <li>Max Korz 2=188 (LC 1), 4=-72 (LC 16), 5=33 (LC 16)</li> <li>FORCES</li> <li>(I) - Maximum Compression/Maximum</li> <li>Top CHORD</li> <li>2-5=-48/48</li> <li>NOTES</li> <li>1) Winci ASCE 7-10; Vull=120mph (3-second gust)</li> <li>Vaad-95mb; TCDL=6.0, 0pst; h=30f; B=20f; L=20f; eave=4ft; Cat. I]; Exp B; Enclosed;</li> <li>MWFRS (directional) and C C Exterior (2) 1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-11-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-96-00 tall by 2-00-00 will file blaveen the bottom chord and any other members.</li> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss to truss to truss connections.</li> </ul>	SLIDER	Left 2x6 SP No.2 2	2-6-0	6) This	truss is designed in act	cordance w	ith the 2015						
TOP CHORD Structural wood sheating directly applied or 10-0-0 co bracing. REACTIONS (Ib/size) 2=188/0-3-8, 4=75/ Mechanical, 5=32/ Mechanical Max Horiz 2=46 (LC 11) Max Dirit 2=-26 (LC 11), Max Grav 2=188 (LC 1, 4=77 (LC 16), 5=33 (LC 16) FORCES (U.) - Maximum Compression/Maximum Tension TOP CHORD 1:2=-030, 2:3=-145/37, 3:4=-31/41 BOCT CHORD 2:5=84/48 NOTES 1) Wind: ASCE 7-10; Vull=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II: Exp. B: Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2:0-0, Interior (1) 2:-0-10 to 21-13 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 plet grip DOL=1.60 2) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3:-0-60 cut all by 2:-0-00 will will fit between the bottom chord and any other members. 4) Refer to girder(s) for truss to truss connections.	BRACING			Inter	national Building Code	Section 230	6.1 and						
BOT CHORD Rigid celling directly applied or 10-0-0 oc bracing. REACTIONS (Ib/size) 2=188/0-3-8, 4=75/ Mechanical, 5=32/ Mechanical Max Horiz 2=85 (LC 11) Max Uplit 2=-265 (LC 11) Max Grav 2=818 (LC 1, 4=72 (LC 11), Max Grav 2=818 (LC 1, 4=72 (LC 11), Max Grav 2=818 (LC 1, 4=77 (LC 16), 5=33 (LC 16) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1:2=0/30, 2:3=-145/37, 3:4=-31/41 BOT CHORD 2:5=-48/48 NOTES 1) Wind: ASCE 7-10; Vule120mph (3-second gust) Vasd=95mph: TCDL=6.0psf; B:-DId=6.0psf; B:-Boldesd, MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2:0-0, Interior (1) 2:0-0 to 2:11-3 zone; cantilever left and right exposed ; end vertical left and right exposed.C-C for members and right grip DOL=1.60 2) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3:0-60/01 BJ 2:0-00 will dive where he bottom chord and any other members. 3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi. 4) Refer to girder(s) for truss to truss to truss connections.	TOP CHORD	Structural wood she 2-11-15 oc purlins.	athing directly applie	ed or LOAD C	ASE(S) Standard	FT 1.							
REACTIONS (Ib/size) 2=188/0C1.4 = 475/ Mechanical, 5=32/ Mechanical Max Horiz 2=85 (LC 11) Max Upit 2=-26 (LC 11), 4=-42 (LC 11) Max Grav 2=188 (LC 1, 4=-477 (LC 16), 5=33 (LC 16) Tension Tension TOP CHORD 1:2=0/30, 2:3=-145/37, 3:4=-31/41 BOT CHORD 2:5=-48/48 NOTES 1) Wint: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=-20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-O-0 to 2-0-0, Interior (1) 2-0-0 to 2:11.3 zone; cantilever left and right exposed; end vertical left and right exposed; C- for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) * This truss has been designed for a 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. 3) All beamings are assumed to be SPF No.2 crushing capacity of 425 psi. 4) Refer to girder(s) for truss to truss connections.	BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	5									
Max Horiz 2=85 (LC 11) Max Uplit 2=-26 (LC 11), Max Uplit 2=-26 (LC 11), Max Grav 2=188 (LC 1), 4=77 (LC 16), 5=33 (LC 16) FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 1=2=0/30, 2=3=-145/37, 3=4==31/41 BOT CHORD 1=2=0-030, 2=3=-145/37, 3=4==31/41 BOT CHORD 2=5=-48/48 NOTES 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) =-1-0-0 to 2=0-0, Interior (1) 2=-0 to 2=-11-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWRRS for reactions shown; Lumber DOL=1.60 2) * 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. 4) Refer to girder(s) for truss to truss connections. DCtuber 8,2019	REACTIONS	(lb/size) 2=188/0-3 5=32/ Me	3-8, 4=75/ Mechanic chanical	al,									
Max Uplift 226 (LC 11), 4=-72 (LC 11) Max Grav 2=188 (LC 1), 4=-77 (LC 16), 5=33 (LC 16) FORCES (b)- Maximum Compression/Maximum Tension TOP CHORD 1-2=0/30, 2-3=-145/37, 3-4=-31/41 BOT CHORD 2-5=-48/48 <b>NOTES</b> 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BSCDL=6.0psf; h=-30f; B=-20ft, L=-20ft; eav=-41ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-11-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) *This truss has been designed for a 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 wy other members. 3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi. 4) Refer to girder(s) for truss to truss connections.		Max Horiz 2=85 (LC	11)										
Max Grav 2=188 (LC 1), 4=77 (LC 16), 5=33 (LC 16) FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 1:2=0/30, 2:3=:145/37, 3:4=:31/41 BOT CHORD 2:-5=-48/48 NOTES 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) WMVFRS (directional) and C-C Exterior (2) -1-0-0 to 2:0-0, Interior (1) 2:0-0 to 2:11-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) * This truss has been designed for a 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. 3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi. 4) Refer to girder(s) for truss to truss connections.		Max Uplift 2=-26 (LC	C 11), 4=-42 (LC 11)										
FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 1.2=0/30, 2-3=-145/37, 3-4=-31/41 BOT CHORD 2.5=-48/48 NOTES 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0 pds; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-11-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) *This truss has been designed for a 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. 3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi. 4) Refer to girder(s) for truss to truss connections.		Max Grav 2=188 (LC	C 1), 4=77 (LC 16), 5	5=33									
FORCES       (Ib) - Maximum Compression/Maximum Tension         TOP CHORD       1-2=0/30, 2-3=-145/37, 3-4=-31/41         BOT CHORD       2-5=-48/48         NOTES       1)         Vinit: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; b=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-11-3 zone; cantilever left and right exposed; -C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60       SEAL         2)       * 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.       SEAL         3)       All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.       Ostic Truss to truss connections.         4)       Refer to girder(s) for truss to truss connections.       October 8,2019		(LC 16)											
<ul> <li>TOP CHORD 1:2=0/30, 2:3=-145/37, 3:4=-31/41</li> <li>BOT CHORD 2:5=-48/48</li> <li>NOTES</li> <li>1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -10-0 to 2:0-0, Interior (1) 2:0-0 to 2:11:3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) * 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 2:0-00 wide will fit between the bottom chord and any other members.</li> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> </ul>	FORCES	(lb) - Maximum Com Tension	pression/Maximum										
NOTES         1) Wind: ASCE 7-10; Vult=120mph (3-second gust)         Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft;         B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed;         MWFRS (directional) and C-C Exterior (2) -10-0 to         2-0-0, Interior (1) 2-0 to 2-11-3 zone; cantilever left         and right exposed; end vertical left and right         exposed; C-C for members and forces & MWFRS for         reactions shown; Lumber DOL=1.60 plate grip         DOL=1.60         2) * This truss has been designed for a 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.         3) All bearings are assumed to be SPF No.2 crushing         capacity of 425 psi.         4) Refer to girder(s) for truss to truss connections.	TOP CHORD	1-2=0/30, 2-3=-145/3	37, 3-4=-31/41										
<ul> <li>NOTES</li> <li>1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-11-3 zone; cantilever left and right exposed; -C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) * 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.</li> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> </ul>	BOTCHORD	2-3=-40/40											
<ul> <li>1) Wind: ASCE 7-10, Vull=120/lip1 (3-second gus)</li> <li>Vasd=95mph; TCDL=6.0ps; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-11-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) * 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.</li> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> </ul>	NOIES		(2 accord suct)										
<ul> <li>Vasdesoff, FeDLesobs, FeDLesobs, Festors, Festors, Festors, Festors, Festors, Festors, Festors, Festors, Festors, MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-11-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) * 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.</li> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> </ul>	I) Wind: AS	CE 7-10; Vuit=120mpn	DI -6 Opef: b-20ft										111111
<ul> <li>MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-11-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) * 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.</li> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> </ul>	B=20ft·L=	=20ft eave=4ft Cat II	Exp B: Enclosed:									and the second	CAD
<ul> <li>2-0-0, Interior (1) 2-0-0 to 2-11-3 zone; cantilever left and right exposed; end vertical left and right exposed; end vertical left and right exposed; C- C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) * 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 till by 2-00-00 wide will fit between the bottom chord and any other members.</li> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> </ul>	MWFRS (	(directional) and C-C E	xterior (2) -1-0-0 to									"TH	UNHO
<ul> <li>and right exposed; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) * 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.</li> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> </ul>	2-0-0, Inte	erior (1) 2-0-0 to 2-11-3	zone; cantilever left	t								NON.	Seid. Ant
<ul> <li>exposed;C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) * 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.</li> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> </ul>	and right e	exposed ; end vertical I	left and right										King
reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) * 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. 3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi. 4) Refer to girder(s) for truss to truss connections. 5 Cotober 8,2019	exposed;0	C-C for members and f	orces & MWFRS for								N.		m
<ul> <li>DOL=1.60</li> <li>2) * 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.</li> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> <li>Cotober 8,2019</li> </ul>	reactions	shown; Lumber DOL=1	1.60 plate grip								-	1.1	:
<ul> <li>2) This truss has been designed for a live load of 20.0pst 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.</li> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> <li>6) O36322</li> <li>7) October 8,2019</li> </ul>	DOL=1.60	)											SEAL :
<ul> <li>a) Of the bottom chord in all areas where a rectangle</li> <li>b) 2-00-00 wide will fit between the bottom chord and any other members.</li> <li>c) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>c) Refer to girder(s) for truss to truss connections.</li> <li>C) C) C</li></ul>	2) ^ This trus	ss has been designed f	or a live load of 20.0	pst								01	36322
<ul> <li>3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> <li>Cotober 8,2019</li> </ul>	3-06-00 to	llom chord in all areas	fit between the botto	m							=	: .	:
<ul> <li>All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.</li> <li>4) Refer to girder(s) for truss to truss connections.</li> <li>Cotober 8,2019</li> </ul>	chord and	any other members	in between the bolic	////									
capacity of 425 psi. 4) Refer to girder(s) for truss to truss connections. October 8,2019	<ol> <li>All bearing</li> </ol>	as are assumed to be S	SPF No.2 crushing								-	· A. En	-cRi'A S
4) Refer to girder(s) for truss to truss connections.	capacity c	of 425 psi.										A A	JINE AN
October 8,2019	4) Refer to g	irder(s) for truss to tru	ss connections.									TI, CA	CII BE
October 8,2019	. 0											11114	. GIL
October 8,2019													mm
												Octob	er 8,2019

TREENCO A MITEK ATIIIlate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	V1	Valley	1	1	Job Reference (optional)	E13608518

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:57 ID:cD1F1YgTmn35YIQP7qLCqfyX8pO-5Muwcx42PCF72xRcw86pWZbI0AL9kwIRFBvwJEyVmWi

15:10:57 Page: 1



Scale = 1:45.9

## Plate Offsets (X, Y): [4:0-2-0,0-2-5], [11:0-2-0,0-2-5]

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.05	Horiz(TL)	0.00	14	n/a	n/a		
BCDL		10.0	Code	IBC201	5/TPI2014	Matrix-MS							Weight: 108 lb	FT = 20%
LUMBER				B	OT CHORD	1-25=-46/94, 24-2	25=-46/51	, 23-24=-46/5	51,	10) Pro	vide me	chanic	al connection (by	others) of truss to
TOP CHORD	2x4 SP N	lo.1				22-23=-46/51, 21	-22=-46/5	1, 20-21=-46	6/51,	bea	aring plat	te capa	able of withstandi	ng 34 lb uplift at joint
BOT CHORD	2x4 SP N	lo.1				19-20=-46/51, 18	-19=-46/5	1, 17-18=-46	6/51,	20,	18 lb up	olift at jo	oint 22, 9 lb uplift	at joint 23, 18 lb
OTHERS	2x4 SP N	lo.3				16-17=-46/51, 15	-16=-46/5	1, 14-15=-46	5/51	upl	ift at join	t 24, 5 <sup>-</sup>	1 lb uplift at joint 2	25, 34 lb uplift at joint
BRACING				W	EBS	7-20=-208/76, 6-2	22=-86/37	, 5-23=-130/3	36,	19,	18 lb up	olift at jo	oint 18, 13 lb upli	ft at joint 17, 16 lb
TOP CHORD	Structura	l wood she	athing directly applie	d or		3-24=-114/43, 2-2	25=-138/6	9, 8-19=-208	/76,	upl	ift at join	t 16 an	id 52 lb uplift at jo	bint 15.
	6-0-0 oc	purlins, exc	ept			9-18=-86/36, 10-1	17=-130/3	9, 12-16=-11	3/41,	11) Thi	s truss is	s desig	ned in accordance	e with the 2015
	2-0-0 oc	purlins (6-0	-0 max.): 4-11.			13-15=-140/70				Inte	ernationa	al Build	ing Code section	2306.1 and
BOT CHORD	Rigid cei	lina directlv	applied or 6-0-0 oc	N	OTES					refe	erenced	standa	rd ANSI/TPI 1.	
	bracing.	0 ,		1)	Unbalanced	d roof live loads ha	ve been o	considered fo	r	12) Gra	aphical p	urlin re	presentation doe	s not depict the size
REACTIONS	(lb/size)	1=82/25-1	1-6. 14=84/25-1-6.		this design.					or t	he orien	tation o	of the purlin along	g the top and/or
	(,	15=215/2	5-1-6. 16=142/25-1-6	<sub>3.</sub> 2)	Wind: ASC	E 7-10; Vult=120m	nph (3-sec	ond gust)		bot	tom choi	rd.		
		17=176/2	5-1-6, 18=111/25-1-6	Ś.	Vasd=95mp	oh; TCDL=6.0psf;	BCDL=6.0	0psf; h=30ft;		LOAD	CASE(S	) Stai	ndard	
		19=278/2	5-1-6, 20=278/25-1-6	s,	B=20ft; L=2	25ft; eave=4ft; Cat.	II; Exp B	; Enclosed;						
		22=111/2	5-1-6, 23=176/25-1-6	З,	MWFRS (d	irectional) and C-C	Exterior	(2) 0-0-7 to						
		24=144/2	5-1-6, 25=210/25-1-6	6	3-0-7, Inter	or (1) 3-0-7 to 5-4	-14, Exter	ior (2) 5-4-14	to					
	Max Horiz	1=-54 (LC	; 9)		9-7-13, Inte	rior (1) 9-7-13 to 1	9-9-5, EX	terior (2) 19-9	9-5					
	Max Uplift	15=-52 (L	C 11), 16=-16 (LC 11	1),	loft and right	t exposed : end w	0 20-1-13	zone; cantile	ver					
		17=-13 (L	C 8), 18=-18 (LC 11)	,	err and rigi	C for mombors on	d forcos	ANU NUT						
		19=-34 (L	C 8), 20=-34 (LC 7),		reactions sl	own. Lumber DO	lu iorces d I –1 60 nl:	ate arin						
		22=-18 (L	C 11), 23=-9 (LC 7),		DOI = 1.60	Iown, Lumber DO	L=1.00 pi	ate grip						
		24=-18 (L	C 11), 25=-51 (LC 11	1) 2)	Truce doci	anod for wind load	c in the n	and of the tru	100					111111
	Max Grav	1=83 (LC	20), 14=85 (LC 21),		only Fors	tuds exposed to w	ind (norm	al to the face	)				and the second	CAD
		15=216 (L	_C 21), 16=142 (LC 1	),	see Standa	rd Industry Gable	End Detai	ils as applicat	), hle				IN TH	CARO
		17=176 (L	LC 1), 18=113 (LC 20	)),	or consult of	walified building d	esigner as	s ner ANSI/TE	⊃I1				1 on it	
		19=278 (L	_C 21), 20=278 (LC 2	20), (1), (2)	Provide ade	equate drainage to	nrevent v	vater ponding	ч. н. г				i a il	N. S.
		22=113 (L	LC 21), $23=176$ (LC 1	), ·) ), 5)	All plates a	re 1x3 MT20 unles	s otherwi	se indicated	9.			-4		100.00
		24=144 (L	LC 1), 25=211 (LC 20	)) 6) 6)	Gable requ	ires continuous bo	ttom chor	d bearing.				-	:4	
FORCES	(lb) - Max	kimum Com	pression/Maximum	7)	Gable stude	s spaced at 2-0-0	DC.					=		SEAL : E
	lension			8)	* This truss	has been designe	ed for a liv	e load of 20.0	Opsf					
TOP CHORD	1-2=-102	/60, 2-30=-	42/16, 3-30=-25/42,	- /	on the botto	om chord in all are	as where	a rectangle				=	0.	36322 : -
	3-4=-41/5	51, 4-5=-32	/51, 5-6=-32/51,		3-06-00 tall	by 2-00-00 wide v	vill fit betw	een the botto	om			-	1 A A	:
	6-31=-32	/51, 31-32=	=-32/51, 7-32=-32/51,	,	chord and a	any other members	S.						2 · · · ·	a .:
	/-ö=-32/3	), ö-33=-3	2/01, 33-34=-32/51,	9)	All bearings	s are assumed to b	e SPF No	0.2 crushing					2. 5. SNI	DINIEFH X X
	9-34=-32	1/52 12 25	32/31, 10-11=-32/51, = 9/20 12 25- 22/4/	, ´	capacity of	425 psi.							12	TIME CAN
	13-143	1/32, 12-30	=-0/30, 13-30=-33/10	υ,									ILC A	CIL BEIN
	13-14=-3	1/+0											1111	. GILIN
														THURS

October 8,2019

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	V2	Valley	1	1	Job Reference (optional)	E13608519

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:58 ID:cD1F1YgTmn35YIQP7qLCqfyX8pO-ZYRIpH4g9WN\_g4?pUrd23m8SFahATNOaUrfTrgyVmWh Page: 1



Scale = 1:39.8

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

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL		10.0	Lumber DOL	1.15		BC	0.06	Vert(TL)	n/a	-	n/a	999			
BCLL		0.0*	Rep Stress Incr	YES		WB	0.06	Horiz(TL)	0.00	9	n/a	n/a			
BCDL		10.0	Code	IBC201	5/TPI2014	Matrix-MS							Weight: 78 lb	FT = 20%	
LUMBER				2)	Wind: ASCE	7-10; Vult=120mpl	n (3-sec	ond gust)							
TOP CHORD	2x4 SP N	0.1			Vasd=95mpł	n; TCDL=6.0psf; BC	CDL=6.0	0psf; h=30ft;							
BOT CHORD	2x4 SP N	0.1			B=20ft; L=21	ft; eave=4ft; Cat. II	; Exp B	Enclosed;							
OTHERS	2x4 SP N	0.3			MWFRS (dire	ectional) and C-C E	xterior	(2) 0-0-7 to							
BRACING					3-0-7, Interio	r (1) 3-0-7 to 5-4-14	4, Exter	ior (2) 5-4-14	to						
TOP CHORD	Structura	I wood shea	athing directly applie	d or	9-7-13, Inten	or (1) 9-7-13 to 15-	9-0, EX	zono: contilo	1-0 Wor						
	6-0-0 oc	purlins, exc	ept		left and right	erior (1) 20-1-4 10 2	ical left	and right	vei						
	2-0-0 oc	purlins (6-0-	-0 max.): 3-7.		exposed:C-C	for members and	forces &	MWFRS for							
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 oc	;	reactions sho	wn: Lumber DOL=	1.60 pla	ate arip							
	bracing.				DOL=1.60	,		51							
REACTIONS	(lb/size)	1=100/21-	-1-6, 9=103/21-1-6,	3)	Truss desigr	ned for wind loads i	n the pl	ane of the tru	SS						
		10=200/2	1-1-0, 11=293/21-1-0 1 1 6 12_202/21 1 0	о, Э	only. For stu	ds exposed to wind	d (norm	al to the face)	),						
		12=320/2	1-1-6	Ј,	see Standard	Industry Gable Er	nd Deta	ls as applicat	ole,						
	Max Horiz	1=-54 (I C	(9)		or consult qu	alified building des	igner as	s per ANSI/TF	PI 1.						
	Max Uplift	1=-4 (LC 1	11), 9=-5 (LC 11), 10	)=-59 5)	Provide adec	juate drainage to p	revent	vater ponding							
		(LC 11), 1	1=-17 (LC 11), 12=-	49 5)	All plates are	1x3 MI20 Unless	otherwi	se indicated.							
		(LC 7), 13	=-17 (LC 11), 15=-6	0 (LC 7)	Gable require	es continuous botto	orn chor	u bearing.							
		11)		8)	* This trues h	as been designed	for a liv	e load of 20 0	Insf						
	Max Grav	1=100 (LC	C 1), 9=103 (LC 1),	0,	on the botton	n chord in all areas	where	a rectangle	poi						
		10=289 (L	.C 21), 11=307 (LC 2	21),	3-06-00 tall b	y 2-00-00 wide will	fit betw	een the botto	m						
		12=330 (L	.C 21), 13=307 (LC 2	20),	chord and ar	y other members.								1111111	
	(11-) М	15=287 (L	.C 20)	9)	All bearings a	are assumed to be	SPF No	0.2 crushing					united.	CAD	1
FORCES	(ID) - Max	imum Com	pression/Maximum		capacity of 4	25 psi.							"atr	UNHO/	11, 1
	1 2 120	DE 2 20 -	121/45 2 20 02/60	10	<ol> <li>Provide mecl</li> </ol>	nanical connection	(by oth	ers) of truss to	D				× 0	SSIC	NE
TOF CHORD	3-2189	/20, 2-20=- /70	R9/70 <i>4</i> -2289/70	,	bearing plate	capable of withsta	nding 4	lb uplift at joi	nt					14	1
	5-22=-89	/70 5-23=-8	89/70 6-23=-89/70		1, 5 lb uplift a	at joint 9, 49 lb uplif	t at join	t 12, 17 lb upl	ift 4				1	4 4	
	6-24=-89	/70. 7-24=-8	39/70, 7-25=-83/61.		at joint 13, 60	if uplin at joint 15	, 17 ID (	iplift at joint 1	1			-	1.1		: =
	8-25=-13	1/46, 8-9=-7	79/12	1.	and 59 lb up	designed in accord	anco wi	th the 2015						SEAL	- E
BOT CHORD	1-15=0/1	20, 14-15=0	)/72, 13-14=0/72,		International	Building Code sect	tion 230	6 1 and					0	36322	- E
	12-13=0/	72, 11-12=0	)/72, 10-11=0/72,		referenced st	andard ANSI/TPI 1		orr and				-	:	JUULL	: :
	9-10=0/7	2		12	2) Graphical pu	rlin representation	does no	t depict the s	ize						1 2
WEBS	5-12=-25	0/96, 4-13=	-226/67, 2-15=-205/	98,	or the orienta	tion of the purlin al	ong the	top and/or					· A. En	-cR.	LE
	6-11=-22	6/67, 8-10=	-205/96		bottom chord	l. ·	-						1 A	SINE	2.5
NOTES				L	DAD CASE(S)	Standard							TI, CA	CILBE	11
1) Unbalance	ed roof live	loads have	been considered for		.,								1111	. GILIN	C
this desig	n.													mm	
													Octob	er 8,2019	



Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	V3	Valley	1	1	Job Reference (optional)	E13608520

#### Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:58 ID:5QbeFuh5X5CyAS?bgXsRMsyX8pN-ZYRIpH4g9WN\_g4?pUrd23m8SSafrTMIaUrfTrgyVmWh

Page: 1



Scale = 1:33.4

## Plate Offsets (X, Y): [3:0-2-0,0-2-5], [5:0-2-0,0-2-5]

<b>Loading</b> TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IBC2015	5/TPI2014	<b>CSI</b> TC BC WB Matrix-MS	0.19 0.15 0.07	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 62 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N Structura 6-0-0 oc 2-0-0 oc Rigid ceil bracing. (Ib/size)	0.1 0.3 I wood shea ourlins, exc ourlins (10- ing directly 1=107/17-	athing directly applied ept 0-0 max.): 3-5. applied or 6-0-0 oc 1-6, 7=110/17-1-6,	2) or	Wind: ASCE Vasd=95mph B=20ft; L=20 MWFRS (dire 3-0-7, Interior 9-7-13, Interior to 16-1-4, Inte left and right exposed;C-C reactions sho DOL=1.60	7-10; Vult=120mpl ; TCDL=6.0psf; BG ft; eave=4ft; Cat. II ectional) and C-C E (1) 3-0-7 to 5-4-1 or (1) 9-7-13 to 11- erior (1) 16-1-4 to exposed ; end vert for members and wn; Lumber DOL=	n (3-sec CDL=6.( ; Exp B; Exterior 4, Exter 9-5, Ex 17-1-13 ical left forces 8 1.60 pla	and gust) opsf; h=30ft; Enclosed; (2) 0-0-7 to ior (2) 5-4-14 terior (2) 11-9 zone; cantilev and right AWVFRS for ate grip	to -5 ver						
	Max Horiz Max Uplift Max Grav	8=427/17- 10=423/17 1=-54 (LC 8=-75 (LC 10=-75 (L) 1=131 (LC 8=427 (LC 10=423 (L)	1-6, 9=301/17-1-6, 7-1-6 9) 11), 9=-35 (LC 8), C 11) 2 20), 7=133 (LC 21), C 1), 9=307 (LC 20), C 1)	3) 4) 5) 6) 7)	russ design only. For stu see Standard or consult qua Provide adeq Gable require Gable studs s * This truss h on the bottom	ed for wind loads i ds exposed to wind I Industry Gable Er alified building des uate drainage to p es continuous botto spaced at 4-0-0 oc as been designed 1 chord in all areas	in the pl d (norm nd Detai igner as revent v om chor for a liv where	ane of the tru: al to the face) Is as applicab per ANSI/TP vater ponding d bearing. e load of 20.0 a rectangle	ss le, l 1.						
FORCES	(lb) - Max Tension	imum Com	pression/Maximum		3-06-00 tall b	y 2-00-00 wide will	fit betw	een the botto	m						
TOP CHORD	1-16=-182 3-17=0/7 5-6=-37/5	2/137, 2-16 1, 4-17=0/7 9, 6-19=-39	=-40/160, 2-3=-39/58 1, 4-18=0/71, 5-18=0/ 9/159, 7-19=-51/136	, 8) /71, 9)	All bearings a capacity of 42 Provide mech	are assumed to be 25 psi. nanical connection	SPF No	o.2 crushing ers) of truss to	)				WINTH TH	CARO	11.
BOT CHORD	1-11=-149 9-10=-149	9/153, 10-1 9/83, 8-9=- <sup>.</sup>	1=-149/83, 149/83, 7-8=-149/83		bearing plate 9, 75 lb uplift	capable of withsta at joint 10 and 75	Inding 3 Ib uplift	5 lb uplift at jo at joint 8.	int				N'NOP GEE	Ser 1	i'i
WEBS NOTES 1) Unbalance this design	4-9=-244/ ed roof live l n.	′83, 2-10=-3 oads have	302/110, 6-8=-304/11	0 10 11 LC	) This truss is of International referenced st ) Graphical put or the orienta bottom chord DAD CASE(S)	designed in accord Building Code sect andard ANSI/TPI <sup>2</sup> flin representation tion of the purlin al Standard	ance wi tion 230 I. does no long the	th the 2015 6.1 and It depict the si top and/or	ze			Walnum.	03	EAL 6322	Manunun .

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 safe truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



October 8,2019

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Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	V4	Valley	1	1	Job Reference (optional)	E13608521

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:59 ID:5QbeFuh5X5CyAS?bgXsRMsyX8pN-1k?g1d5JwqVrIEa?2Z8Hb\_heW\_1MCqvjjVO0N6yVmWg Page: 1



Scale = 1:33.5												
Plate Offsets (X, Y):	[3:0-2-0,0-2-5]	, [5:0-2-0,0-2-5]										
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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TODI	10.0	Li un boi	4.45		0.00		- 1-		- 1-	000		

TCDL BCLL BCDL		10.0 0.0* 10.0	Lumber DOL Rep Stress Incr Code	1.15 YES IBC20	)15/TPI2014	BC WB Matrix-MS	0.06 0.04	Vert(TL) Horiz(TL)	n/a 0.00	- 7	n/a n/a	999 n/a	Weight: 47 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 Structural wo 6-0-0 oc purl Rigid ceiling bracing.	ood shea lins, exce lins (6-0-1 directly a	thing directly applic spt 0 max.): 3-5. applied or 10-0-0 od	ed or c	<ol> <li>Wind: ASCE Vasd=95mp B=20ft; L=2 MWFRS (di 3-0-7, Interi 12-1-4, Inte and right ex exposed;C- reactions sh DOL=1.60</li> </ol>	F7-10; Vult=120 h; TCDL=6.0psf Oft; eave=4ft; Ca rectional) and C- or (1) 3-0-7 to 5- rior (1) 12-1-4 to posed ; end vert C for members a own; Lumber D0	mph (3-sec ; BCDL=6.0 t. II; Exp B; C Exterior 4-14, Exter 13-1-13 zo ical left and nd forces & DL=1.60 pla	cond gust) Opsf; h=30ft; ; Enclosed; (2) 0-0-7 to ior (2) 5-4-14 one; cantileve d right & MWFRS fo ate grip	4 to er left r					
REACTIONS	(Ib/size) 1= 8= 10 Max Horiz 1= Max Uplift 1= 8= Max Grav 1= (L 20	=113/13-1 =292/13-1 )=291/13 =-54 (LC =-12 (LC =-12 (LC =-63 (LC =113 (LC C 21), 9= ))	1-6, 7=117/13-1-6, 1-6, 9=237/13-1-6, -1-6 9) 11), 7=-13 (LC 11), 11), 10=-64 (LC 11), 1), 7=117 (LC 1), 8 -237 (LC 1), 10=29	, ) 8=301 - 9 (LC	<ol> <li>Truss desig only. For st see Standal or consult q</li> <li>Provide ade</li> <li>Gable requi</li> <li>Gable studs</li> <li>* This truss on the botto</li> <li>3-06-00 tall</li> </ol>	Ined for wind loa uds exposed to 'd Industry Gable ualified building quate drainage res continuous b spaced at 4-0-0 has been desigr m chord in all ar by 2-00-00 wide	ds in the pl wind (norma- e End Detai designer as to prevent v ottom chore oc. ned for a live eas where will fit betw	lane of the tr al to the face ils as applica s per ANSI/T water pondin d bearing. e load of 20. a rectangle yeen the bott	uss e), ble, PI 1. g. Opsf					
FORCES	(lb) - Maximu Tension	um Comp	pression/Maximum	;	chord and a 8) All bearings	ny other membe are assumed to	rs. be SPF No	0.2 crushing						
TOP CHORD BOT CHORD WEBS <b>NOTES</b> 1) Unbalance this design	1-2=-164/23, 3-4=-106/87, 6-16=-165/6( 1-10=-7/137, 4-9=-158/38, ed roof live load	, 2-15=-1 , 4-5=-10 6, 6-7=-1 , 9-10=0/ , 2-10=-2 ds have b	65/65, 3-15=-112/8 6/87, 5-16=-112/8 10/18 97, 8-9=0/97, 7-8= 17/100, 6-8=-217/9 been considered for	30, 1, 9 0/97 98 r	<ul> <li>capacity of 4</li> <li>Provide merbearing plat</li> <li>1, 13 lb uplif</li> <li>uplift at join</li> <li>10) This truss is</li> <li>Internationareferenced</li> <li>11) Graphical portheoriem</li> <li>bottom chore</li> </ul>	425 psi. chanical connect e capable of with t at joint 7, 64 lb 8. designed in acc l Building Code standard ANSI/T urlin representat ation of the purli d. Ctondard	ion (by othen standing 1 uplift at join cordance wi section 230 PI 1. ion does no n along the	ers) of truss 2 lb uplift at nt 10 and 63 ith the 2015 16.1 and ot depict the top and/or	to joint Ib size			Walling	ALL OF THE OF	SEAL 36322

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October 8,2019

818 Soundside Road Edenton, NC 27932 

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	V5	Valley	1	1	Job Reference (optional)	E13608522

## Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:10:59 ID:5QbeFuh5X5CyAS?bgXsRMsyX8pN-1k?g1d5JwqVrIEa?2Z8Hb\_hdc\_?rCpzjjVO0N6yVmWg 4-6-11 8-7-7 4-6-11 4-0-12 4x4 =2





9-1-6

Scale = 1:27.7

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		тс	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.10	Horiz(TL)	0.00	3	n/a	n/a		
BCDL		10.0	Code	IBC2015	/TPI2014	Matrix-MS							Weight: 31 lb	FT = 20%
LUMBER				4)	Gable require	es continuous botto	om chor	d bearing.						
TOP CHORD	2x4 SP No	<b>b.1</b>		5)	Gable studs	spaced at 4-0-0 oc								
BOT CHORD	2x4 SP No	0.1		6)	* This truss h	as been designed	for a live	e load of 20.0	Jpst					
OTHERS	2x4 SP No	0.3			3-06-00 tall h	v 2-00-00 wide will	fit betw	a reclangle	h					
BRACING	Chrusting		thing disectly applie	. ما م	chord and an	v other members.	int betw	centric bola	om					
TOP CHORD	9-1-6 oc p	wood snea urlins.	atning directly applie	a or 7)	All bearings	are assumed to be	SPF No	.2 crushing						
BOT CHORD	Rigid ceilii bracing.	ng directly	applied or 6-0-0 oc	8)	Provide mec	25 psi. nanical connection	(by oth	ers) of truss t	:0					
REACTIONS	(lb/size)	1=46/9-1-6	6, 3=51/9-1-6, -6		bearing plate 1, 8 lb uplift a	capable of withsta at joint 3 and 92 lb	nding 1 uplift at	1 lb uplift at j joint 4.	oint					
	Max Horiz	1=-45 (I C	9)	9)	This truss is	designed in accord	ance wi	th the 2015						
	Max Uplift	1=-11 (LC	21), 3=-8 (LC 20), 4	1=-92	International referenced st	Building Code sect andard ANSI/TPI 1	tion 230 I.	6.1 and						
	May 0	(LC 11)			AD CASE(S)	Standard								
	Max Grav	(LC 1)	20), 3=84 (LC 21), 4	I=632 - 5										
FORCES	(lb) - Maxi Tension	mum Com	pression/Maximum											
TOP CHORD	1-9=-76/20 2-11=-31/2	03, 9-10=-3 286, 11-12	35/233, 2-10=-33/29 =-33/225, 3-12=-43/	3, 195										
BOT CHORD	1-4=-213/8	30, 3-4=-20	07/78											
WEBS	2-4=-471/	112												
NOTES														1111111
1) Unbalanc	ed roof live lo	bads have	been considered for	•									"TH	CARO
2) Wind: AS	n. CE 7-10: Vul	t-120mph	(3-second quet)										SRI	······ Alaly
Vasd=95r	mph: TCDI = $f$	6 Onsf: BCI	DI = 6  Onsf:  h=30ft									/	SOUTH	NO VIA
B=20ft; L=	=20ft; eave=4	Ift; Cat. II;	Exp B; Enclosed;									6	111	Mall
MWFRS (	(directional) a	and C-C Ex	terior (2) 0-0-7 to									-	.2.	1044 =
3-0-7, Inte	erior (1) 3-0-7	' to 4-7-2, I	Exterior (2) 4-7-2 to									-	: 0	SEAL : =
7-7-2, Inte	erior (1) 7-7-2	2 to 9-1-13	zone; cantilever left									- 8		
and right	and right exposed; end vertical left and right										1	0.	36322 : 3	
exposed;	C-C for memi	bers and to	orces & MWFRS for										1 A.	1
	รแอพก, Lunn า	Jei DOL=I	.oo plate grip										A	all S
3) Truss de	sianed for wi	nd loads in	the plane of the tru	22									- Co SNO	SINEE
only. For	studs expos	ed to wind	(normal to the face)										1210	allin
see Stand	dard Industry	Gable End	Details as applicat	, ole,									IL A	GILDIN
or consult	t qualified bui	Iding desig	ner as per ANSI/TP	PI 1.									(11)	THURS .

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October 8,2019

Page: 1

Job	Truss	Truss Type	Qty	Ply	Phillips' Hip RF-Roof	
Q-1901805-1	V6	Valley	1	1	Job Reference (optional)	E13608523

2-6-11

2-6-11

Peak Truss Builders, LLC, New Hill, NC - 27562.

Run: 8.32 E Sep 21 2019 Print: 8.320 E Sep 21 2019 MiTek Industries, Inc. Mon Oct 07 15:11:00 ID:5QbeFuh5X5CyAS?bgXsRMsyX8pN-VxZ2Ez6xh7dhvO9BcGfW8BDqEOMixHHtx98awZyVmWf

4x4 =

2

4-7-7

2-0-12

-1-6



12 7 Г 1-2-7 1-6-2 -0-0 4 1x3 m 2x4 🦼 5-1-6 Structural wood sheathing directly applied or 8) Provide mechanical connection (by others) of truss to 5-1-6 oc purlins.

- OTHERS BRACING TOP CHORD BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 9) **REACTIONS** (lb/size) 1=53/5-1-6, 3=57/5-1-6, 4=300/5-1-6 Max Horiz 1=-24 (LC 9) 1=-6 (LC 11), 3=-7 (LC 11), 4=-38 Max Uplift
- (LC 11) Max Grav 1=65 (LC 20), 3=68 (LC 21), 4=300 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=-62/107, 2-3=-9/101 BOT CHORD 1-4=-85/49, 3-4=-81/38 WEBS 2-4=-181/39

### NOTES

Scale = 1:23 Loading TCLL (roof) TCDI BCLL BCDL LUMBER

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

- Wind: ASCE 7-10; Vult=120mph (3-second gust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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.
- Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 4-0-0 oc.



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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.06	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.04	Horiz(TL)	0.00	3	n/a	n/a			
BCDL	10.0	Code	IBC2015/	/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%	
LUMBER			6)	* This truss h	as been design	ed for a live	e load of 20.0	Opsf						
TOP CHORD	2x4 SP No.1		,	on the botton	n chord in all are	eas where	a rectangle	•						
BOT CHORD	2x4 SP No.1	3-06-00 tall b	by 2-00-00 wide will fit between the bottom											
OTHERS	2x4 SP No.3			chord and an	y other membe	rs.								
BRACING			7)	All bearings a capacity of 4	are assumed to 25 psi	be SPF No	.2 crushing							

bearing plate capable of withstanding 6 lb uplift at joint 1, 7 lb uplift at joint 3 and 38 lb uplift at joint 4.

This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





