

RE: 3769907 Bonnet B - Lot 8 - Fairground Farms Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: 3769907 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2015/TPI2014 Wind Code: Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.6 Wind Speed: 120 mph Floor Load: N/A psf

This package includes 10 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	162262406	A01	11/29/2023
2	162262407	A02	11/29/2023
3	162262408	A03	11/29/2023
4	162262409	A04	11/29/2023
5	162262410	A05	11/29/2023
6	162262411	B01G	11/29/2023
7	162262412	B02	11/29/2023
8	162262413	B03	11/29/2023
9	162262414	M01	11/29/2023
10	162262415	M02	11/29/2023

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

Truss Engineering Co. under my direct supervision

based on the parameters provided by Builders FirstSource (Albermarle,NC).

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2023

North Carolina COA: C-0844

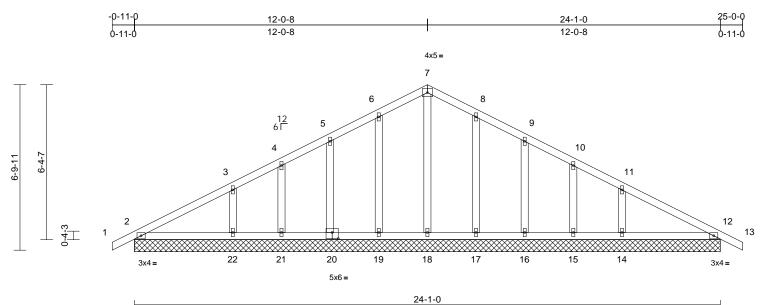
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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



Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Bonnet B - Lot 8 - Fairground Farms	
3769907	A01	Common Supported Gable	1	1	Job Reference (optional)	162262406

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:07:23 ID:v2D8tW20?IBXcZpw7A8nfzzAcvr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



24-1	
24-1	

Scale = 1:47.4

## Plate Offsets (X, Y): [20:0-3-0,0-3-0]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 23.1/30.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/	TPI2014	CSI TC BC WB Matrix-S	0.18 0.12 0.10	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 127 lb	<b>GRIP</b> 244/190 FT = 20%
	6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 2=24-1-0, 15=24-1-0 15=24-1-0 21=24-1-0 Max Horiz 2=-92 (LC Max Uplift 2=-7 (LC 16=-38 (L 19=-36 (L 21=-20 (L Max Grav 2=219 (LC 14=-341 (L 14=-341 (L 14=-214 (L 18=225 (L)	13), 12=-8 (LC 13), C 13), 15=-21 (LC 13 C 13), 17=-34 (LC 13 C 12), 20=-37 (LC 12 C 12), 22=-67 (LC 12 C 1), 12=217 (LC 1), LC 20), 15=101 (LC 1), C 20), 15=101 (LC 1), C 20), 19=259 (LC 5), LC 19), 21=103 (LC 1)	2) l or (-0, (-0, (-0, (-0, (-0, (-0, (-0, (-0,	Unbalanced this design. Wind: ASCE Vasd=95mpt II; Exp B; Enc cantilever lef plate grip DC Truss design only. For stu see Standarc or consult qu TCLL: ASCE DOL=1.15 PI snow); Pf=22 Plate DOL=1 Ct=1.10 Unbalanced design. This truss ha load of 12.0 p overhaltes are Gable requirt Gable requirt	ed for wind loads ds exposed to wind l Industry Gable E alified building de 7-10; Pr=20.0 ps ate DOL=1.15); P 1.1 psf (flat roof sr .15); Category II; snow loads have s been designed osf or 2.00 times f on-concurrent with 1.5x4 MT20 unle se continuous bot spaced at 2-0-0 o	bh (3-sec SCDL=6. BCDL=6. Benvelope d; Lumt s in the p nd (norm ind Deta signer as f (roof liv 'g=30.0 p ow: Lum Exp B; F been cor for great lat roof la nother liv ss other tom chor c.	cond gust) Opsf; h=30ft; C a) exterior zon- ber DOL=1.60 lane of the trus al to the face), ils as applicab s per ANSI/TP le load: Lumbe cosf (ground ber DOL=1.15 Partially Exp.; nsidered for thi er of min roof I bad of 23.1 psi ve loads. wise indicated d bearing.	cat. e; le, l 1. cr 5 is ive f on	bea 2, 3 upli 17, upli 14) Bev surf 15) This Inte	ring plat 6 lb upli ft at join 38 lb up ft at join reled pla ace with s truss is rnationa 02.10.2 a	te capa ft at joi t 21, 6 lift at ju t 14 ar t 14 ar t te or s t truss s desig and ref	able of withstand int 19, 37 lb uplif 7 lb uplift at joint oint 16, 21 lb upl ad 8 lb uplift at jo shim required to chord at joint(s) ned in accordan dential Code sec ferenced standar	provide full bearing 2. ice with the 2015 ctions R502.11.1 and
FORCES	(lb) - Maximum Com Tension 1-2=0/43, 2-3=-114/ 4-5=-47/92, 5-6=-52 7-8=-59/126, 8-9=-5 10-11=-59/34 11-12	76, 3-4=-71/74, /113, 6-7=-58/132,	11)	chord live loa * This truss h on the botton 3-06-00 tall b chord and an	s been designed id nonconcurrent as been designed in chord in all area y 1-00-00 wide w y other members	with any d for a liv is where ill fit betv , with BC	other live load e load of 20.0 a rectangle veen the botto DL = 10.0psf.	psf m		Van 11		SEA 0363	AL
BOT CHORD	2-22=-4/87, 21-22=- 18-19=-4/87, 17-18= 15-16=-4/87, 14-15= 7-18=-126/0, 6-19=- 4-21=-85/39, 3-22=-	4/87, 19-21=-4/87, 4/87, 16-17=-4/87,	, 7,	All bearings a capacity of 5	are assumed to be 65 psi.	e 54 No.	2 crusning				A A A A A A A A A A A A A A A A A A A		EER. KINN

November 29,2023

Page: 1

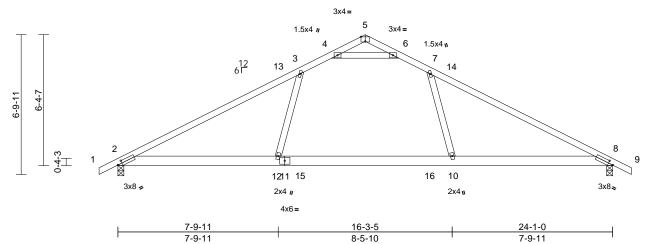
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

Job	Truss	Truss Type	Qty	Ply	Bonnet B - Lot 8 - Fairground Farms	
3769907	A02	Common	6	1	Job Reference (optional)	162262407

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		13-4-1	11		
-0-11-0	8-10-8	10-8-5 12-0-8	15-2-8	24-1-0	25-0-0
0-11-0	8-10-8	1-9-13 1-4-3 1-4-3	3 1-9-13	8-10-8	0-11-0

3x5=



Scale = 1:56.1

### Plate Offsets (X, Y): [2:0-2-10,0-1-8], [5:0-2-8,Edge], [8:0-2-10,0-1-8]

	X, Y): [2:0-2-10,0-1-8	], [5:0-2-8,Edge], [8:	0-2-10,0-	1-8]									
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 23.1/30.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	15/TPI2014	CSI TC BC WB Matrix-S	0.82 0.75 0.56	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.46 0.03	(loc) 8-10 8-10 8	l/defl >843 >627 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 117 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD	2x6 SP No.2 2x4 SP No.3 Structural wood she 4-0-8 oc purlins. Rigid ceiling directly bracing.	applied or 10-0-0 or 3=0-3-8 2 17) 2 12), 8=-71 (LC 13) _C 1), 8=1096 (LC 1 ipression/Maximum	ed or c { cc c cc cc c cc c cc c cc c cc c cc c cc c c c c	<ul> <li>load of 12.0 overhangs n</li> <li>This truss ha chord live load</li> <li>* This truss ha on the bottor 3-06-00 tall li chord and an</li> <li>All bearings capacity of 5</li> <li>Provide mechanism 2 and 71 lb u</li> <li>This truss is International</li> </ul>	is been designed i psf or 2.00 times f on-concurrent with is been designed ad nonconcurrent has been designed n chord in all area by 1-00-00 wide w y other members, are assumed to be 65 psi. hanical connection e capable of withst uplift at joint 8. designed in accor Residential Code nd referenced star	ilat roof k n other lir for a 10. with any d for a liv is where ill fit betw , with BC e SP No. n (by oth tanding 7 rdance w sections	bad of 23.1 p ve loads. D psf bottom other live load other live load e load of 20. a rectangle veen the bott iDL = 10.0ps 2 crushing ers) of truss 1 lb uplift at ith the 2015 i R502.11.1 a	ads. Opsf tom f. to joint					
BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=95m II; Exp B; I cantilever plate grip   3) TCLL: ASC DOL=1.15	4-5=-113/854, 5-6=- 7-8=-1673/81, 8-9=( 2-12=0/1381, 10-12: 3-12=0/408, 7-10=0/ ed roof live loads have n. CE 7-10; Vult=120mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed	114/854, 6-7=-1245, //51 =-17/1293, 8-10=-4/ /408, 4-6=-2248/242 been considered for (3-second gust) DL=6.0psf; h=30ft; ( velope) exterior zor ; Lumber DOL=1.60 roof live load: Lumbe =30.0 psf (ground	(122, <b>[</b> 1381 r Cat. ne; ) er	OAD CASE(S)			Gutri I.			Manual Man Manual Manual Manu	The second se	SEA 0363	L

- ICLL: ASCE 7-10; PF=20.0 pst (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

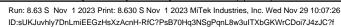
SEAL 036322 A. GILBERT

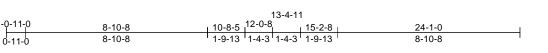
Page: 1

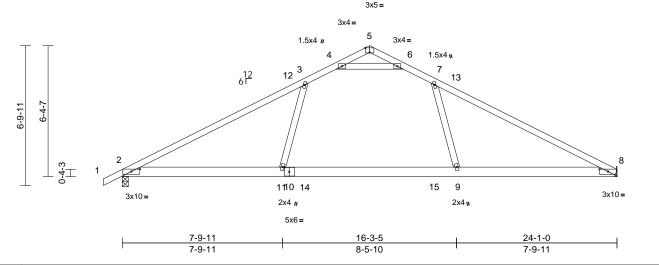


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Job	Truss	Truss Type	Qty	Ply	Bonnet B - Lot 8 - Fairground Farms	
3769907	A03	Common	1	1	Job Reference (optional)	162262408







#### Scale = 1:56.1 Plate Offsets (X, Y): [2:0-5-0,0-1-7], [5:0-2-8,Edge], [8:0-5-0,0-1-7], [10:0-2-14,0-2-8]

Plate Offsets	(X, Y): [2:0-5-0,0-1-7],	, [5:0-2-8,Edge], [8:0-	-5-0,0-1-7],	, [10:0-2-14,0-	2-8]								
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 23.1/30.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-S	0.87 0.78 0.58	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.36 -0.49 0.03	(loc) 8-9 8-9 8	l/defl >800 >590 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 116 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	<ul> <li>2x6 SP No.2 2x4 SP No.3</li> <li>Structural wood she 2-2-0 oc purlins.</li> <li>Rigid ceiling directly bracing.</li> <li>(size) 2=0-3-8, 8 Max Horiz 2=99 (LC Max Uplift 2=-71 (LC Max Grav 2=1101 (I (Ib) - Maximum Com Tension</li> <li>1-2=0/51, 2-3=-1694</li> </ul>	8= Mechanical 16) 2 12), 8=-54 (LC 13) _C 1), 8=1027 (LC 1) ppression/Maximum	8) 9) 10	load of 12.0 overhangs n This truss ha chord live loa * This truss h on the bottor 3-06-00 tall l chord and ar Bearings are capacity of 5 Refer to gird ) Provide mec bearing plate & and 71 lb (0 ) This truss is International	as been designed f psf or 2.00 times f on-concurrent with as been designed f ad nonconcurrent i has been designed in chord in all area by 1-00-00 wide wi hy other members, assumed to be: J 65 psi. er(s) for truss to tr hanical connection e capable of withst uplift at joint 2. designed in accor Residential Code nd referenced star	lat roof I in other Ii for a 10. with any d for a liv s where ill fit bett , with BC loint 2 S uss conin n (by oth canding s dance w sections	bad of 23.1 p ve loads. 0 psf bottom other live loa e load of 20. a rectangle veen the bott CDL = 10.0ps P No.2 crush nections. ers) of truss 64 lb uplift at ith the 2015 \$ R502.11.1 a	ads. Opsf form ing to joint					
BOT CHORD WEBS	7-8=-1668/78 2-11=0/1399, 9-11= 3-11=0/424, 7-9=0/3		387 LC	OAD CASE(S)	Standard								
NOTES	ced roof live loads have	been considered for											11111
<ul> <li>this desig</li> <li>Wind: AS</li> <li>Vasd=95</li> <li>II; Exp B;</li> <li>cantilever</li> <li>plate grip</li> <li>TCLL: AS</li> <li>DOL=1.1</li> </ul>	gn. SCE 7-10; Vult=120mph mph; TCDL=6.0psf; BC ; Enclosed; MWFRS (er r left and right exposed o DCL=1.60 SCE 7-10; Pr=20.0 psf ( 5 Plate DOL=1.15); Pg:	(3-second gust) DL=6.0psf; h=30ft; C tvelope) exterior zon ; Lumber DOL=1.60 froof live load: Lumbe =30.0 psf (ground	Cat. e; er							4	2	SEA 0363	• -
Plate DO Ct=1.10	f=23.1 psf (flat roof sno DL=1.15); Category II; E ced snow loads have be	xp B; Partially Exp.;									anna anna anna anna anna anna anna ann	SNGIN	EERAK

- snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.



G 11111111 November 29,2023

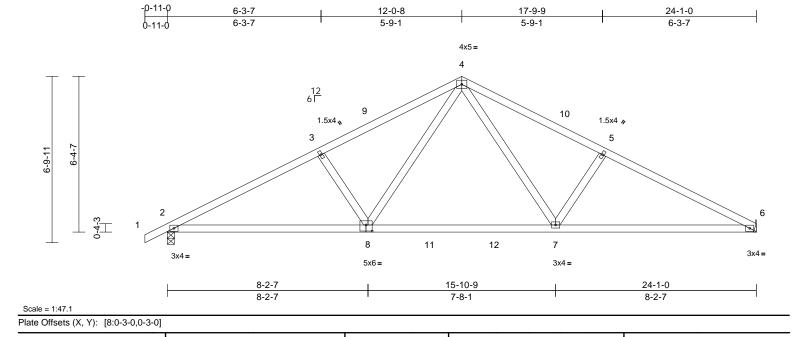
Page: 1

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Job	Truss	Truss Type	Qty	Ply	Bonnet B - Lot 8 - Fairground Farms	100000 100	
3769907	A04	Common	8	1	Job Reference (optional)	162262409	

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries. Inc. Wed Nov 29 10:07:26 ID:hAIRHa9rXPG69wmwafhgUzzAcmf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading TCLL (roof) Snow (Pf/Pg) TCDL	(psf) 20.0 23.1/30.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.64 0.75 0.27	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.15 -0.30 0.05	(loc) 7-8 6-7 6	l/defl >999 >954 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0*	Code		5/TPI2014	Matrix-S	0.2.		0.00		n, a	n, a	Weight: 109 lb	FT = 20%
LUMBER TOP CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS	3-2-15 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, Max Horiz 2=98 (LC Max Uplift 2=-71 (LC Max Grav 2=1101 ( (lb) - Maximum Con Tension 1-2=0/44, 2-3=-1800 4-5=-1603/127, 5-6- 2-7=-119/1537, 6-7=	C 12), 6=-53 (LC 13) LC 1), 6=1027 (LC 1 npression/Maximum 9/109, 3-4=-1588/12: =-1809/113	2 8) 9) 10 3, 11	load of 12.0 overhangs n This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Bearings are capacity of 5 Refer to gird D) Provide mec bearing plate 6 and 71 lb u 1) This truss is International	er(s) for truss to hanical connecti capable of with uplift at joint 2. designed in acc Residential Coo nd referenced st	a flat roof lo ith other lin d for a 10.0t it with any ed for a live as where will fit betw rs, with BC J Joint 2 SF truss conr on (by oth standing 5 ordance w le sections	bad of 23.1 p e loads. D psf bottom other live load e load of 20. a rectangle e en the bott DL = 10.0 ps P No.2 crush nections. ers) of truss i3 lb uplift at ith the 2015 i R502.11.1 a	ads. Opsf om f. ing to joint					
this design	ed roof live loads have		r								1	TH CA	ROL

- Wind: ASCE 7-10; Vult=120mph (3-second gust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground 3) snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

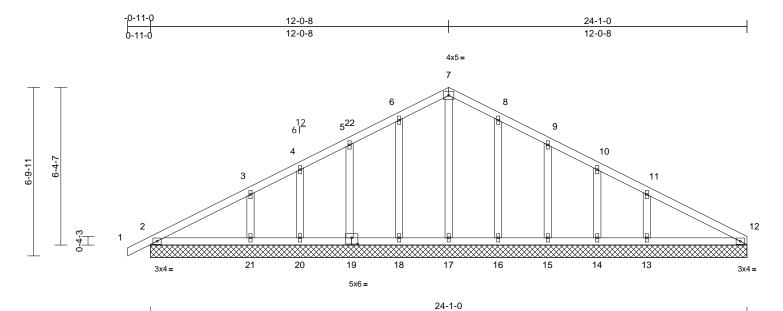


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Job	Truss	Truss Type	Qty	Ply	Bonnet B - Lot 8 - Fairground Farms	
3769907	A05	Common Supported Gable	1	1	Job Reference (optional)	l62262410

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:07:26 ID:Wbe76RRH6U9rPS0LQ?b3wpzAcmI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:46.5

## Plate Offsets (X, Y): [19:0-3-0,0-3-0]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 23.1/30.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2	014	<b>CSI</b> TC BC WB Matrix-S	0.21 0.12 0.10	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 126 lt	<b>GRIP</b> 244/190 b FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.			design. :: ASCE d=95mph (p B; Ennc : grip DC :: a grip DC :: s design For stu Standarc :: ASCE =1.15 Pl (); Pf=23 • DOL=1 .10 alanced :: gn. truss ha of 12.0 p hangs no lates are le require e studs <sup>2</sup>	hed for wind load ds exposed to wi d Industry Gable i alified building de 7-10; Pr=20.0 ps ate DOL=1.15); f b.1 psf (flat roof si .15); Category II; snow loads have s been designed osf or 2.00 times on-concurrent wit 1.5x4 MT20 unle se continuous bo spaced at 2-0-0 d	ph (3-sec BCDL=6. (envelope ed ; Lumh s in the p ind (norm ind (norm ind (norm ind (norm Pg=30.0 p now: Lum Exp B; F been cor for great flat roof li h other li ess other ttom chor oc.	cond gust) Dpsf; h=30ft; (2 s) exterior zon her DOL=1.60 lane of the tru al to the face) ils as applicat s per ANSI/TP e load: Lumbé bosf (ground her DOL=1.11 lartially Exp.; lasidered for th er of min roof bad of 23.1 ps ve loads. wise indicated d bearing.	Cat. e; ss , ole, Pl 1. er 5 is live if on	bea 2, 3 upli 16, upli 14) Bev surf 15) This Inte	ring plat 6 lb upli ft at join 39 lb up ft at join reled plat ace with s truss is rnationa 02.10.2 a	te capa ft at jo t 20, 6 lift at j t 13. te or s a truss s d edesig and rel ) Sta	able of withstand int 18, 37 lb upli 7 lb uplift at join oint 15, 19 lb up shim required to chord at joint(s) gned in accordar dential Code se ferenced standa	nce with the 2015 actions R502.11.1 and
FORCES	21=341 (l (lb) - Maximum Com Tension 1-2=0/43, 2-3=-116/ 4-5=-48/87, 5-6=-48 7-8=-59/121, 8-9=-5 10-11=-62/32, 11-12	npression/Maximum 72, 3-4=-72/69, /109, 6-7=-57/127, 3/85, 9-10=-38/50, 2=-75/56	chor 11) * Th on th 3-06 chor	<ul> <li>10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>11) * 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>12) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.</li> </ul>								•	
BOT CHORD	4-20=-85/39, 3-21=-	-5/80, 15-16=-5/80,	, 7,	icity of 5	65 psi.						in the second se	11111	

November 29,2023

Page: 1



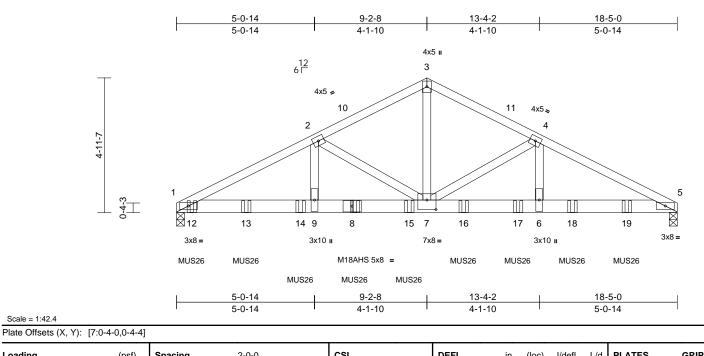
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

Job	Truss	russ Truss Type Qty Ply Bonnet B - Lot 8		Bonnet B - Lot 8 - Fairground Farms		
3769907	B01G	Common Girder	1	2	Job Reference (optional)	162262411

Scale = 1:42.4

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries. Inc. Wed Nov 29 10:07:27 ID:9Au5CMoTHOpkOvkwdacsbxzAclr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



	7, 1). [7.0-4-0,0-4-4]														
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 23.1/30.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2015/TPI20	CSI TC BC WB Matrix-S	0.80 0.62 0.64	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.12 -0.22 0.06	(loc) 6-7 6-7 5	l/defl >999 >985 n/a	L/d 240 180 n/a	PLATES MT20 M18AHS Weight: 200 lb	<b>GRIP</b> 244/190 186/179 FT = 20%			
	3-3-1 oc purlins.	eathing directly applied r applied or 10-0-0 oc 5=0-3-8 C 17) C 12), 5=-313 (LC 13 LC 1), 5=4986 (LC 1)	Vasda II; Exp cantili plate 5) TCLL DOL= snow, Plate Ct=1. 6) Unba desig 7) All pla 8) This t	lanced snow loads hav	; BCDL=6. S (envelop used ; Lumi psf (roof liv ; Pg=30.0 ) snow: Lun II; Exp B; F ve been co unless othe ed for a 10.	Opsf; h=30ft; i e) exterior zor oer DOL=1.60 re load: Lumb osf (ground ober DOL=1.1 Partially Exp.; nsidered for the rwise indicate 0 psf bottom	ne; D Der 15 his ed.		14=-10	07 (B),	(B), 12=-1013 (B 15=-1007 (B), 16 18=-1007 (B), 19	i=-1007 (В),			
TOP CHORD BOT CHORD WEBS	Tension 1-2=-9001/564, 2-3= 3-4=-6167/412, 4-5= 1-9=-518/7988, 7-9= 6-7=-452/7957, 5-6= 2-9=-101/2511, 2-7= 3-7=-306/5187, 4-7=	=-8966/563 =-518/7988, =-452/7957 =-2981/264,	9) * This on the 3-06-1 chord 10) All be capad	<ul> <li>9) * 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 1-00-00 wide will fit between the bottom chord and any other members.</li> <li>10) All bearings are assumed to be SP DSS crushing capacity of 660 psi.</li> </ul>											
<ul> <li>(0.131"x3" Top chords oc.</li> <li>Bottom chi staggered Web conni</li> <li>2) All loads a except if in CASE(S) s provided ti unless oth</li> </ul>	4-6=-100/2478 to be connected toge ) nails as follows: s connected as follows: ords connected as follows: at 0-3-0 oc. re considered equally oted as follows: 2x4 - re considered equally oted as front (F) or ba section. Ply to ply com o distribute only loads erwise indicated. ed roof live loads have h.	s: 2x4 - 1 row at 0-9-0 lows: 2x6 - 2 rows - 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO/ nections have been noted as (F) or (B),	bearir joint 1 12) This 1 112) This 1 112) This 112) This 112) This 120 13) Use 5 7 13) Use 5 7 13) Use 5 7 13) Use 5 7 14) Fill all 10 10 10 10 10 10 10 10 10 10 10 10 10	<ol> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 353 lb uplift at joint 1 and 313 lb uplift at joint 5.</li> <li>This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.</li> <li>Use Simpson Strong-Tie MUS26 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-6-12 from the left end to 16-6-12 to connect truss(es) to back face of bottom chord.</li> <li>Fill all nail holes where hanger is in contact with lumber.</li> <li>LOAD CASE(S) Standard</li> <li>Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-66, 3-5=-66, 1-5=-20 Concentrated Loads (lb)</li> </ol>						SEAL 036322 Neverber 20 2022					

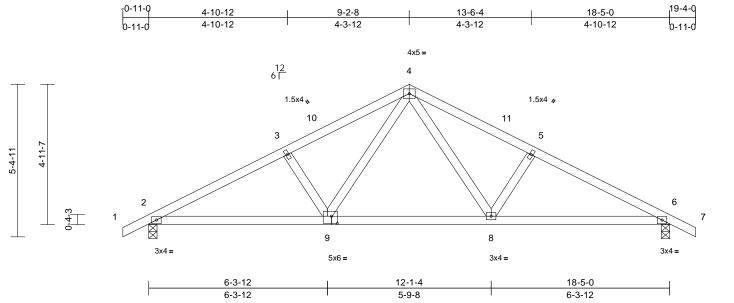
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual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



Job	Truss	Truss Type	Qty	Ply	Bonnet B - Lot 8 - Fairground Farms		
3769907	B02	Common	8	1	Job Reference (optional)	162262412	

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Scale = 1:40.7

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

												-	
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 23.1/30.0 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 IRC201	5/TPI2014	CSI TC BC WB Matrix-S	0.33 0.44 0.19	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.11 0.03	(loc) 6-8 6-8 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 85 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied or 4-8-14 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 2=0-3-8, 6=0-3-8 Max Horiz 2=72 (LC 16) Max With 2=-58 (LC 12), 6=-58 (LC 13) Max Grav 2=852 (LC 1), 6=852 (LC 1) FORCES (lb) - Maximum Compression/Maximum				load of 12.0 overhangs n This truss ha chord live loa * This truss h on the botton 3-06-00 tall h chord and an All bearings capacity of 5 Provide meet bearing plate 2 and 58 lb o	as been designed psf or 2.00 times on-concurrent will as been designed ad nonconcurrent has been designe n chord in all are- by 1-00-00 wide v hy other members are assumed to b 65 psi. hanical connectite e capable of wills uplift at joint 6. designed in acco	flat roof lo th other liv for a 10.0 t with any ed for a liv as where will fit betw s. be SP No. on (by oth standing 5	and of 23.1 p ve loads. ) psf bottom other live load e load of 20. a rectangle veen the bott 2 crushing ers) of truss 8 lb uplift at	osf on ads. Opsf com to					
	Tension TOP CHORD 1-2=0/44, 2-3=-1344/79, 3-4=-1180/93, 4-5=-1180/93, 5-6=-1344/79, 6-7=0/44 BOT CHORD 2-8=-80/1135, 6-8=-9/1135 WEBS 4-9=-46/464, 3-9=-310/131, 4-8=-46/464,			Ínternational	Residential Code nd referenced sta	e sections	R502.11.1 a	and					
this desig 2) Wind: AS Vasd=95r II; Exp B; cantilever plate grip 3) TCLL: AS	5-8=-310/131 eed roof live loads have in. CE 7-10; Vult=120mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed DOL=1.60 DCE 7-10; Pr=20.0 psf ( 5 Plate DOL=1.15); Pg:	Cat. ne; )								22	SEA 0363	L	

- ICLL: ASCE 7-10; PF=20.0 pst (root live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 pst (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

SEAL 036322 November 29,2023

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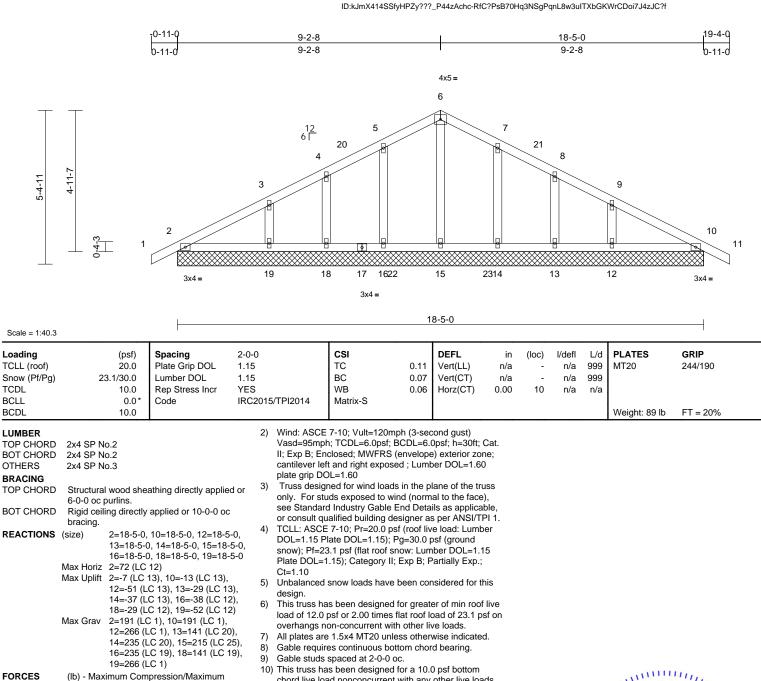
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Job	Truss	Truss Type	Qty	Ply	Bonnet B - Lot 8 - Fairground Farms		
3769907	B03	Common Supported Gable	1	1	Job Reference (optional)	l62262413	

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Page: 1



- FORCES Tension TOP CHORD 1-2=0/43 2-3=-89/59 3-4=-56/62 4-5=-41/82, 5-6=-56/102, 6-7=-56/96 7-8=-41/58, 8-9=-51/32, 9-10=-66/38, 10-11=0/43BOT CHORD 2-19=-2/68, 18-19=-2/68, 16-18=-2/68, 15-16=-2/68, 14-15=-2/68, 13-14=-2/68, 12-13=-2/68, 10-12=-2/68 6-15=-110/0, 5-16=-191/63, 4-18=-113/50,
- WEBS 3-19=-195/84, 7-14=-191/62, 8-13=-113/50, 9-12=-195/84

NOTES

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

- chord live load nonconcurrent with any other live loads.
- 11) \* 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 12) All bearings are assumed to be SP No.2 crushing
- capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 2, 38 lb uplift at joint 16, 29 lb uplift at joint 18, 52 lb uplift at joint 19, 37 lb uplift at joint 14, 29 lb uplift at joint 13, 51 lb uplift at joint 12 and 13 lb uplift at joint 10.
- 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

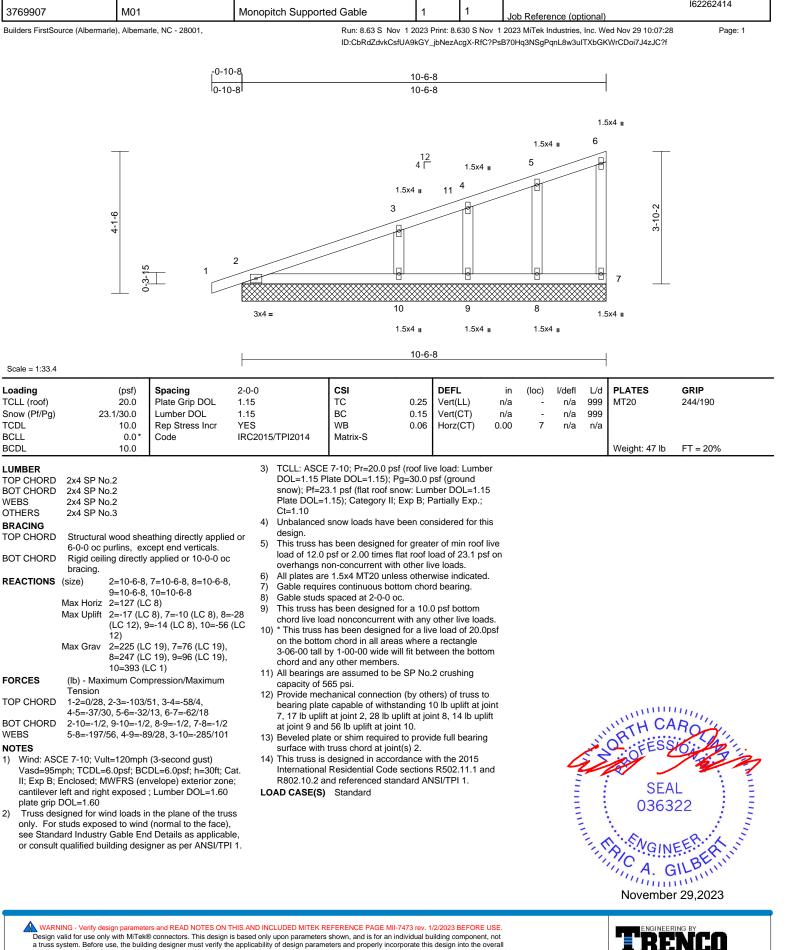


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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bonnet B - Lot 8 - Fairground Farms	
3769907	M01	Monopitch Supported Gable	1	1	Job Reference (optional)	162262414



bilding design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



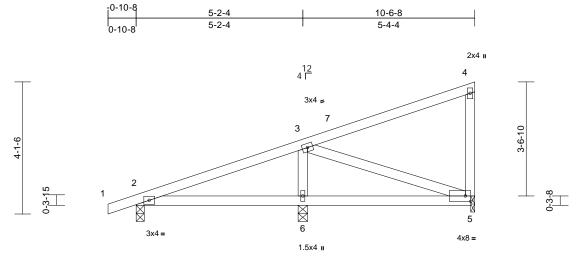
818 Soundside Road

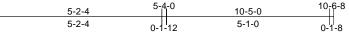
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bonnet B - Lot 8 - Fairground Farms		
3769907	M02	Monopitch	6	1	Job Reference (optional)	162262415	

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Page: 1





#### Scale = 1:35.9

TC Sr	oading CLL (roof) now (Pf/Pg) CDL	(psf) 20.0 23.1/30.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.45 0.24 0.09	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.03 0.00	(loc) 5-6 5-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BC	CLL CDL	0.0* 10.0	Code	IRC2015/TPI2014	Matrix-S	0.00	11012(01)	0.00	0	n/a	n/a	Weight: 48 lb	FT = 20%
LLL TCC BCC OT BC BC BC BC BC TC BC TC BC C C C C C TC BC C W N C 1)	JMBER DP CHORD DT CHORD EBS THERS RACING DP CHORD DT CHORD DT CHORD EACTIONS DP CHORD DT CHORD EBS DP CHORD DT CHORD EBS Vind: ASC Vasd=95m II; Exp B; E cantilever I plate grip I TCLL: ASC DOL=1.15	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-0,4 Max Horiz 2=127 (L0 Max Uplift 2=-32 (L0 (LC 12) Max Grav 2=250 (L0 6=557 (L0 (lb) - Maximum Com Tension 1-2=0/29, 2-3=-94/3 4-5=-183/53 2-6=-31/34, 5-6=-31 3-6=-430/126, 3-5=- CE 7-10; Vult=120mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed	C 8), 5=-37 (LC 8), 6= C 1), 5=230 (LC 19), C 19) npression/Maximum 3, 3-4=-99/35, /34 .12/30 h (3-second gust) EDL=6.0psf; h=30ft; C invelope) exterior zon ; Lumber DOL=1.60 (roof live load: Lumbe =30.0 psf (ground	<ul> <li>chord live lo</li> <li>6) * This truss on the botto 3-06-00 tall chord and a</li> <li>d or</li> <li>7) All bearings capacity of f</li> <li>8) Bearing at ji using ANSI/ designer sh</li> <li>9) Provide med bearing plat</li> <li>58 10) Provide med bearing plat</li> <li>58 10) Provide med bearing plat</li> <li>58 10) Provide med bearing plat</li> <li>11) This truss is internationa R802.10.2 a</li> <li>LOAD CASE(S)</li> </ul>	bint(s) 5 considers TPI 1 angle to gra buld verify capacit chanical connectio e at joint(s) 5. chanical connectio e capable of withs t at joint 6 and 37 designed in acco I Residential Code nd referenced sta	with any d for a liv as where vill fit betv s. e SP No. e SP No. e parallel in formul y of bear n (by oth tanding 3 lb uplift a rdance we sections	other live loa e load of 20.0 a rectangle veen the bottu 2 crushing to grain value a. Building ing surface. ers) of truss t b2 lb uplift at j tt joint 5. it hthe 2015 s R502.11.1 a	Dpsf om o o oint		<b>U</b> <sup>(1)</sup>		ORTH CA	
3) 4)	Ct=1.10 Unbalance design. This truss	=1.15); Category II; E ed snow loads have be has been designed fo 0 psf or 2 00 times fla	een considered for the r greater of min roof I	ive						11110	A A A A A A A A A A A A A A A A A A A	S SNGIN	EER. Kunn

- snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.

GI 11111111 November 29,2023

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