

# MiTek USA, Inc.

7777 Greenback Lane Suite 109 Citrus Heights, CA, 95610 Telephone 916/676-1900 Fax 916/676-1909

Re: LC\_CL822A Plan 822 Elev A 30#

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource - Colorado Springs.

Pages or sheets covered by this seal: R51225183 thru R51225201

My license renewal date for the state of Colorado is October 31, 2017.



July 26,2017

Hernandez, Marcos

**IMPORTANT NOTE:** Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 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 designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
 is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
 NoISITPI1 Quality Criteria, DSB-89 and BCSI Building Component
 Safety Information
 available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



			24-6-0		
LOADING (psf) TCLL 30.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.13	DEFL. in (loc) Vert(LL) -0.01 19	l/defl L/d n/r 120	PLATES GRIP MT20 197/144
(Root Snow=30.0)           TCDL         7.5           BCLL         0.0           BCDL         7.5	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	BC 0.06 WB 0.06 (Matrix)	Vert(TL) -0.01 19 Horz(TL) 0.00 18	n/r 120 n/a n/a	Weight: 109 lb FT = 0%
			PRACING		

TOP CHORD

BOT CHORD

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

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

#### LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2OTHERS2x4 SPF No.2

**REACTIONS.** All bearings 24-6-0.

(lb) - Max Horz 2=114(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20, 18 Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20, 18

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

#### NOTES-

 Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; enclosed; MWFRS (all heights) and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 12-3-0, Corner(3) 12-3-0 to 15-3-0 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

2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 3) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Plates checked for a plus or minus 5 degree rotation about its center.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20, 18.
- 12) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



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**WITEK**° 7777 Greenback Lane Suite 109 Citrus Heights, CA 95610



-10-10	7-8-12				8	3-4-10		
SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2009/TPI2007	CSI. TC 0.71 BC 0.50 WB 0.52 (Matrix-M)	DEFL. Vert(LL) -0. Vert(TL) -0. Horz(TL) 0.0	in (loc 08 7- 19 7- 05	:) l/defl 9 >999 9 >999 5 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 81 lb	<b>GRIP</b> 197/144 FT = 0%	
		BRACING- TOP CHORD BOT CHORD	Struc end v Rigid	tural wood verticals. ceiling dire	sheathing dir ectly applied o	rectly applied or 3-6- or 9-10-2 oc bracing.	3 oc purlins, except	
REACTIONS. (lb/size) 10=968/Mechanical, 5=1074/0-5-8 Max Horz 10=-140(LC 9) Max Uplift 10=-182(LC 11), 5=-232(LC 11)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       3.14=-1486/430, 14-15=-1494/419, 4-15=-1578/411, 4-16=-1775/463, 5-16=-1853/445, 2-18=-1317/363, 18-19=-1234/371, 3-19=-1228/382         BOT CHORD       9-10=-238/1174, 8-9=-152/1016, 7-8=-152/1016, 5-7=-356/1638         WEBS       4-7=-495/214, 3-7=-124/644, 3-9=-37/301, 2-10=-1396/357								
TCDL=4.5psf; BCDL=4.5psf; 0-1-12 to 3-1-12, Interior(1) 3 nd right exposed;C-C for mem psf (flat roof snow); Category I te been considered for this dee td for greater of min roof live Ic re loads. minus 5 degree rotation abou d for a 10.0 psf bottom chord t truss connections. tion (by others) of truss to bea	h=15ft; B=45ft; L=24ft; eav -1-12 to 9-9-0, Exterior(2) bers and forces & MWFRS I; Exp C; Fully Exp.; Ct=1. sign. ad of 16.0 psf or 2.00 time t its center. live load nonconcurrent wi ring plate capable of withs	ve=4ft; Cat. II; Exp C; 9-9-0 to 12-9-0 zone; 5 for reactions shown; 1 es flat roof load of 30.0 th any other live loads tanding 100 lb uplift al	enclose cantilev Lumbe ) psf on joint(s)	d; MWFRS er left and r DOL=1.60 overhangs except (jt=	(all right ) plate grip		A Company of the second	
	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES           Code IRC2009/TPI2007           68/Mechanical, 5=1074/0-5-8           140(LC 9)           182(LC 11), 5=-232(LC 11)           Aax. Ten All forces 250 (lb) or 30, 14-15=-1494/419, 4-15=-1           63, 18-19=-1234/371, 3-19=-1           74, 8-9=-152/1016, 7-8=-152/1016, 7-8=-37/301, 2           TCDL=4.5psf; BCDL=4.5psf; 0-1-12 to 3-1-12, Interior(1) 3           nd right exposed;C-C for memilipsing filter for 5 now); Category I           e been considered for this desider of min roof live lor low of relads.           minus 5 degree rotation about do for a 10.0 psf bottom chord I or truss connections.           ion (by others) of truss to bear	SPACING-         2-0-0         CSI.           Plate Grip DOL         1.15         BC         0.50           Rep Stress Incr         YES         WB         0.52           Code         IRC2009/TPI2007         (Matrix-M)           68/Mechanical, 5=1074/0-5-8         140(LC 9)         182(LC 11), 5=-232(LC 11)           Aax. Ten All forces 250 (lb) or less except when shown 30, 14-15=-1494/419, 4-15=-1578/411, 4-16=-1775/463         63, 18-19=-1234/371, 3-19=-1228/382           74, 8-9=-152/1016, 7-8=-152/1016, 5-7=-356/1638         , 3-7=-124/644, 3-9=-37/301, 2-10=-1396/357           TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eax 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-9-0, Exterior(2) nd right exposed; C-C for members and forces & MWFRS           ps (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.           e been considered for this design.           d for greater of min roof live load of 16.0 psf or 2.00 time re loads.           minus 5 degree rotation about its center.           d for a 10.0 psf bottom chord live load nonconcurrent wi true strues connections.           ion (by others) of truss to bearing plate capable of withs	Initia         Provid           SPACING-         2-0-0         CSI.         DEFL.           Plate Grip DOL         1.15         TC         0.71         Vert(LL)         -0.0           Rep Stress Incr         YES         WB         0.52         Horz(TL)         0.0           Code IRC2009/TPI2007         (Matrix-M)         BRACING-         TOP CHORD         BOT CHORD           68/Mechanical, 5=1074/0-5-8         140(LC 9)         182(LC 11), 5=-232(LC 11)         BCACING-         TOP CHORD           63/140(LC 9)         182(LC 11), 5=-232(LC 11)         Max. Ten All forces 250 (lb) or less except when shown.         30, 14-15=-1494/419, 4-15=-1578/411, 4-16=-1775/463, 5-16=-1853/445, 63, 18-19=-1234/371, 3-19=-1228/382         74, 8-9=-152/1016, 7-8=-152/1016, 5-7=-356/1638         , 3-7=-124/644, 3-9=-37/301, 2-10=-1396/357           TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; volume for this 4, 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-9-0, Exterior(2) 9-9-0 to 12-9-0 zone; nd right exposed; C-C for members and forces & MWFRS for reactions shown;           psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1         e been considered for this design.           d for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 re loads.         minus 5 degree rotation about its center.           d for a 10.0 psf bottom chord live load nonconcurrent with any other live loads of runs.         ion (by others) of	Initia         Promiz           SPACING-         2-0-0         CSI.           Plate Grip DOL         1.15         TC         0.71           Lumber DOL         1.15         BC         0.50         Vert(LL)         -0.08         7-           Rep Stress Incr         YES         WB         0.52         Vert(TL)         -0.19         7-           Code IRC2009/TPI2007         (Matrix-M)         BRACING-         TOP CHORD         Struc           end v         BOT CHORD         Rigid         BOT CHORD         Rigid           68/Mechanical, 5=1074/0-5-8         140(LC 9)         182(LC 11), 5=-232(LC 11)	Interfer         Top 12           SPACING-         2-0-0         CSI.           Plate Grip DOL         1.15         TC         0.71           Lumber DOL         1.15         BC         0.50           Pep Stress Incr         YES         WB         0.52           Code IRC2009/TPI2007         (Matrix-M)         Vert(TL)         -0.19         7-9         >999           Horz(TL)         0.05         5         n/a         Code IRC2009/TPI2007         (Matrix-M)         Vert(LL)         -0.05         5         n/a           Gde IRC2009/TPI2007         (Matrix-M)         BRACING-         TOP CHORD         Structural wood end verticals.           BOT CHORD         Structural vood (Matrix-M)         BRACING-         TOP CHORD         Rigid ceiling dire           68/Mechanical, 5=1074/0-5-8         140(LC 9)         182(LC 11), 5=-232(LC 11)         Nax. Ten All forces 250 (lb) or less except when shown.         30, 14-15=-1494/419, 4-15=-1578/411, 4-16=-1775/463, 5-16=-1853/445, 63, 18-19=-1234/371, 3-19=-1228/32         74, 8-9=-37/301, 2-10=-1396/357           TCDL=4.5psf; BCDL=4.5psf, h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; enclosed; MWFRS 0.0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-9.0, Exterior(2) 9-9.0 to 12-9.0 zone; cantilever left and ind right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60           psf (flat roof sno	Interfact         Test is           SPACING-         2-0-0         CSI.           Plate Grip DOL         1.15         TC         0.71           Vert(LL)         -0.08         7-9         >999         240           Vert(LL)         -0.19         7-9         >999         240           Code IRC2009/TPI2007         (Matrix-M)         Vert(LL)         -0.19         7-9         >999         180           Code IRC2009/TPI2007         (Matrix-M)         Vert(LL)         -0.05         5         n/a         n/a           BRACING-         TOP CHORD         Structural wood sheathing directly applied of end verticals.         BOT CHORD         Rigid ceiling directly applied of end verticals.           BOT CHORD         182(LC 11), 5-232(LC 11)         Max. Ten All forces 250 (lb) or less except when shown.	Barlow         19-12         04-10           SPACING- Plate Grip DOL         1.15         CSI. TC         DEFL. Vert(LL)         in         (loc)         I/defl         L/d         MT20           Lumber DOL         1.15         BC         0.50         Vert(LL)         -0.08         7-9         >999         240         MT20           Rep Stress Incr         YES         WB         0.52         Horz(TL)         0.05         5         n/a         MT20           Code IRC2009/TPI2007         (Matrix-M)         BRACING- TOP CHORD         Structural wood sheathing directly applied or 3-6- end verticals.         BOT CHORD         Rigid ceiling directly applied or 9-10-2 oc bracing           68/Mechanical, 5=1074/0-5-8         140(LC 9)         BS2(LC 11)         Aax. Ten All forces 250 (lb) or less except when shown.         BOT CHORD         Rigid ceiling directly applied or 9-10-2 oc bracing           68/Mechanical, 5=1074/0-5-8         140(LC 9)         A.30, 14-15=-1494/419, 4-15=-1578/411, 4-16=-1775/463, 5-16=-1853/445, 63, 18-19=-1234/371, 3-19=-1228/382         Rigid ceiling directly applied or 9-10-2 oc bracing           74, 8-9=-152/1016, 7-8=-152/1016, 7-8=-356/1638         ,3-7=-124/644, 3-9=-37/301, 2-10=-1396/357         TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eawe=4ft; Cat. II; Exp C; enclosed; MWFRS (all 0-1-12 to 3-1-12, Interior(11) 3-1-12 to 9-9-0, Exterior(2) 9-9-0 to 12-9-0 zone; cantiliever left and right dright e	

9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



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			22-0-0 22-0-0			
LOADING (psf) TCLL 30.0 (Roof Snow=30.0) TCDL 7.5 BCLL 0.0 BCDL 7.5	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2009/TPI2007	CSI. TC 0.13 BC 0.06 WB 0.06 (Matrix)	<b>DEFL.</b> ir Vert(LL) -0.01 Vert(TL) -0.01 Horz(TL) 0.00	n (loc) l/defl 17 n/r 17 n/r 16 n/a	L/d PI 120 M 120 n/a W	<b>ATES GRIP</b> T20 197/144 eight: 102 lb FT = 0%
LUMBER- TOP CHORD 2x4 SPF No BOT CHORD 2x4 SPF No	0.2 0.2		BRACING- TOP CHORD	Structural wood sl end verticals.	neathing directly app	plied or 6-0-0 oc purlins, exce

BOT CHORD

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

WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

REACTIONS. All bearings 22-0-0.

Max Horz 33=-140(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 33, 25, 26, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19, 18, 16 Max Grav All reactions 250 lb or less at joint(s) 33, 25, 26, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19, 18, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 8-9=-35/255

#### NOTES-

- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; enclosed; MWFRS (all heights) and C-C Corner(3) 0-1-12 to 3-1-0, Exterior(2) 3-1-0 to 9-9-0, Corner(3) 9-9-0 to 12-9-0 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
- Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs
- non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 7) Plates checked for a plus or minus 5 degree rotation about its center.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 25, 26, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19, 18, 16,
- 12) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



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	7-1-10		12-10-6			20-0-0	
Plate Offsets (X,Y) [1:0	D-1-2,0-0-2], [5:0-1-2,0-0-2], [6:0-5-0,	0-6-4], [8:0-5-0,0-6-4]	5-6-15			7-1-10	
LOADING (psf) TCLL 30.0 (Roof Snow=30.0) TCDL 7.5 BCLL 0.0 BCDL 7.5	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2009/TPI2007	CSI. TC 0.75 BC 0.66 WB 0.52 (Matrix-M)	DEFL. ir Vert(LL) -0.20 Vert(TL) -0.38 Horz(TL) 0.06	(loc) 6-8 6-8 5 6-8 5 5	l/defl L/d >999 240 >667 180 n/a n/a	PLATES MT20 Weight: 194 lb	<b>GRIP</b> 197/144 FT = 0%
LUMBER- TOP CHORD 2x4 SPF N BOT CHORD 2x8 DF 19 WEBS 2x4 SPF N	No.2 950F 1.7E No.2		BRACING- TOP CHORD BOT CHORD	Structura Rigid cei	al wood sheathing ling directly applied	directly applied or 3-3-3 d or 10-0-0 oc bracing.	oc purlins.
REACTIONS. (lb/size) Max Horz Max Uplifi	1=5175/0-5-8, 5=5175/0-5-8 1=-84(LC 7) t1=-973(LC 9), 5=-973(LC 9)						
FORCES.         (lb) - Max. Cc           TOP CHORD         1-2=-94           4-5=-94           BOT CHORD         1-8=-16           WEBS         3-6=-77	omp./Max. Ten All forces 250 (lb) oi 69/1803, 2-13=-9285/1773, 3-13=-92 69/1803 10/8714, 7-8=-1079/6111, 6-7=-1079 4/4206, 4-6=-421/146, 3-8=-774/4200	eless except when shown 76/1788, 3-14=-9276/17 76/111, 5-6=-1610/8714 6, 2-8=-421/146	n. 88, 4-14=-9285/1773,				
NOTES- 1) 2-ply truss to be connec Top chords connected Bottom chords connect Webs connected as fol 2) All loads are considerer connections have beer connections have beer 3) Wind: ASCE 7-05; 100 heights); cantilever left 4) TCLL: ASCE 7-05; Pf= 5) Unbalanced snow load 6) Plates checked for a pl 7) This truss has been de 8) Provide mechanical co 5=973.	ected together with 10d (0.131"x3") na as follows: 2x4 - 1 row at 0-4-0 oc. ted as follows: 2x8 - 2 rows staggere llows: 2x4 - 1 row at 0-9-0 oc. d equally applied to all plies, except h provided to distribute only loads not mph; TCDL=4.5psf; BCDL=4.5psf; h and right exposed ; end vertical left :30.0 psf (flat roof snow); Category II; Is have been considered for this desi lus or minus 5 degree rotation about esigned for a 10.0 psf bottom chord lim nnection (by others) of truss to bearing	ails as follows: d at 0-9-0 oc. if noted as front (F) or ba ed as (F) or (B), unless oc =15ft; B=45ft; L=24ft; eav and right exposed; Lumb Exp C; Fully Exp.; Ct=1. gn. its center. ve load nonconcurrent wi ng plate capable of withs	ck (B) face in the LOAD therwise indicated. ve=4ft; Cat. II; Exp C; er er DOL=1.60 plate grip 1 th any other live loads. tanding 100 lb uplift at j	CASE(S) iclosed; N DOL=1.6i	) section. Ply to ply //WFRS (all 0 cept (jt=lb) 1=973,		ORADO LICENSE
<ul><li>9) Girder carries tie-in spa</li><li>10) "Semi-rigid pitchbreal</li></ul>	an(s): 22-0-0 from 0-0-0 to 20-0-0 ks with fixed heels" Member end fixity	v model was used in the a	analysis and design of t	nis truss.			S NN NN NN
LOAD CASE(S) Standar 1) Dead + Snow (balance Uniform Loads (plf) Vert: 1-3=-75,	rd ed): Lumber Increase=1.15, Plate Incl 3-5=-75, 1-5=-455(F=-440)	rease=1.15				PRIMA	SS/ONAL E

TTTT Greenback Lane Suite 109 Citrus Heights, CA 95610

July 26,2017

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### REACTIONS. (lb/size) 2=722/0-5-8, 4=722/0-5-8 Max Horz 2=-70(LC 9) Max Uplift2=-166(LC 11), 4=-166(LC 11)

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

TOP CHORD 2-13=-877/213, 13-14=-789/222, 14-15=-777/223, 3-15=-775/234, 3-16=-775/234,

16-17=-777/223, 17-18=-789/222, 4-18=-877/213

BOT CHORD 2-6=-109/718, 4-6=-109/718

NOTES-

1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-2-4, Exterior(2) 7-2-4 to 10-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs

non-concurrent with other live loads.

5) Plates checked for a plus or minus 5 degree rotation about its center.

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=166, 4=166.

8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



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			14-4-0	
			14-4-8	
0.0 .0) 7.5 0.0 7.5	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	CSI. TC 0.13 BC 0.06 WB 0.03 (Matrix)	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.01         11         n/r         120           Vert(TL)         -0.01         11         n/r         120           Horz(TL)         0.00         10         n/a         n/a           Weight:         51 lb         FT = 0	)%
			BRACING-	
	0.0 0.0) 7.5 0.0 7.5	SPACING-         2-0-0           0.0         Plate Grip DOL         1.15           1.00         Lumber DOL         1.15           7.5         Rep Stress Incr         YES           0.0         Code IRC2009/TPI2007         7.5	SPACING-         2-0-0         CSI.           0.0         Plate Grip DOL         1.15         TC         0.13           1.0)         Lumber DOL         1.15         BC         0.06           7.5         Rep Stress Incr         YES         WB         0.03           0.0         Code IRC2009/TPI2007         (Matrix)	Image: Non-stress         SPACING- 100         2-0-0 Plate Grip DOL         CSI. 1.15         DEFL. TC         in         (loc)         l/defl         L/d         PLATES         GRIP           0.0         Plate Grip DOL         1.15         TC         0.13         Vert(LL)         -0.01         11         n/r         120         MT20         197/144           7.5         Rep Stress Incr         YES         WB         0.03         Horz(TL)         0.00         10         n/a         n/a           7.5         Code IRC2009/TPI2007         (Matrix)         WB         0.03         Weight: 51 lb         FT = 0

TOP CHORD

BOT CHORD

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

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

#### LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 OTHERS

REACTIONS. All bearings 14-4-8.

(lb) - Max Horz 2=-70(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 14, 13 except 18=272(LC 2), 12=272(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; enclosed; MWFRS (all heights) and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 7-2-4, Corner(3) 7-2-4 to 10-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
- Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1
- 4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs

- non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Plates checked for a plus or minus 5 degree rotation about its center.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 18, 14, 13. 12.

12) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



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	10-0-0			20-0-0					
Plate Offsets (X,Y) [2:0	)-3-4,Edge], [6:0-3-4,Edge], [8:0-4-0,0	-3-0]				10-0-0			
LOADING (psf)           TCLL         30.0           (Roof Snow=30.0)           TCDL         7.5           BCLL         0.0           BCDL         7.5	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2009/TPI2007	<b>CSI.</b> TC 0.46 BC 0.69 WB 0.33 (Matrix-M)	DEFL. Vert(LL) -0. Vert(TL) -0. Horz(TL) 0.	in (loc) 18 8 35 8-11 08 6	l/defl >999 >690 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 62 lb	<b>GRIP</b> 197/144 FT = 0%	
LUMBER-     BRACING-       TOP CHORD     2x4 SPF No.2     TOP CHORD     Structural wood sheathing directly applied or 3-8-0 oc purlins.       BOT CHORD     2x4 SPF No.2     BOT CHORD     BOT CHORD     Rigid ceiling directly applied or 7-6-6 oc bracing.       WEBS     2x4 SPF No.2     BOT CHORD     Rigid ceiling directly applied or 7-6-6 oc bracing.									
REACTIONS. (lb/size) 2=975/0-3-8, 6=975/0-3-8 Max Horz 2=-31(LC 8) Max Uplift2=-213(LC 11), 6=-213(LC 11)									
FORCES.         (lb) - Max. Co           TOP CHORD         2-15=-24           4-18=-17           BOT CHORD         2-8=-594           WEBS         4-8=-49/	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-15=-2403/657, 15-16=-2363/658, 3-16=-2346/665, 3-17=-1776/442, 4-17=-1734/449, 4-18=-1734/449, 5-18=-1776/442, 5-19=-2346/665, 19-20=-2363/658, 6-20=-2403/657         BOT CHORD       2-8=-594/2293, 6-8=-603/2293         WEBS       4-8=-49/478, 5-8=-819/269, 3-8=-819/270								
NOTES- 1) Wind: ASCE 7-05; 1000 heights) and C-C Exter exposed ; end vertical I DOL=1.60	NOTES- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; enclosed; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-0-0, Exterior(2) 10-0-0 to 13-0-0 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								
<ol> <li>2) TCLL: ASCE 7-05; Pf=</li> <li>3) Unbalanced snow load</li> <li>4) This truss has been demon-concurrent with oth</li> </ol>	30.0 psf (flat roof snow); Category II; s have been considered for this desig signed for greater of min roof live load her live loads.	Exp C; Fully Exp.; Ct=1. n. d of 20.0 psf or 2.00 time	1 s flat roof load of 30.	0 psf on ove	erhangs				
<ul> <li>5) Plates checked for a pl</li> <li>6) This truss has been dee</li> <li>7) Provide mechanical con 6=213</li> </ul>	us or minus 5 degree rotation about in signed for a 10.0 psf bottom chord liv nnection (by others) of truss to bearin	s center. e load nonconcurrent wit g plate capable of withst	h any other live loads anding 100 lb uplift a	s. t joint(s) ex	cept (jt=lb	) 2=213,	4	1001100A	
8) "Semi-rigid pitchbreaks	with fixed heels" Member end fixity r	nodel was used in the an	alysis and design of	this truss.			E E	OHNELLENS	



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Scale = 1:36.1



l	10-0-0				20	-0-0		
	10-0-0	2.01			10	-0-0		
Plate Offsets (X, Y) [2:0	J-5-0,Eagej, [6:0-5-0,Eagej, [8:0-4-0,0	J-3-0]						
LOADING (psf) TCLL 30.0 (Roof Snow=30.0) TCDL 7.5 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.50 BC 0.85 WB 0.36	DEFL. Vert(LL) -0.2 Vert(TL) -0.9 Horz(TL) 0.0	in (loc) 20 8 50 2-8 09 6	l/defl L/ >999 24 >476 18 n/a n/	d P 0 M 0 a	LATES IT20	<b>GRIP</b> 197/144
BCDL 7.5	Code IRC2009/TPI2007	(Matrix)				V	/eight: 72 lb	FI = 0%
LUMBER-TOP CHORD2x4 SPF NBOT CHORD2x4 SPF NWEBS2x4 SPF NOTHERS2x4 SPF N	lo.2 lo.2 lo.2 lo.2		BRACING- TOP CHORD BOT CHORD	Structura Rigid ceil	al wood shea ling directly a	thing directly ap applied or 5-5-13	plied or 3-0-' } oc bracing.	12 oc purlins.
REACTIONS. (lb/size) Max Horz Max Uplift	2=973/0-3-8, 6=973/0-3-8 2=-31(LC 8) 2=-218(LC 11), 6=-218(LC 11)							
FORCES. (lb) - Max. Co TOP CHORD 2-25=-20 4-28=-1 6-30=-20	mp./Max. Ten All forces 250 (lb) or 519/1214, 25-26=-2575/1218, 3-26=- 852/842, 5-28=-1898/835, 5-29=-254 519/1213	less except when showr 2541/1224, 3-27=-1898/8 11/1224, 29-30=-2575/12	n. 335, 4-27=-1852/842, 18,					
BOT CHORD         2-8=-113           WEBS         4-8=-143	31/2491, 6-8=-1134/2491 7/564, 5-8=-895/470, 3-8=-895/470							
<ul> <li>NOTES-</li> <li>1) Wind: ASCE 7-05; 100 heights) and C-C Corrue; end vertical left and rid DOL=1.60</li> <li>2) Truss designed for winn Gable End Details as a 3) TCLL: ASCE 7-05; Pf=</li> <li>4) Unbalanced snow load</li> <li>5) This truss has been de non-concurrent with oft</li> <li>6) All plates are 2x4 MT20</li> <li>7) Plates checked for a pl</li> <li>8) Gable studs spaced at</li> <li>9) This truss has been de to 6=218.</li> <li>11) "Semi-rigid pitchbreak</li> </ul>	mph; TCDL=4.5psf; BCDL=4.5psf; h: er(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 ght exposed;C-C for members and for d loads in the plane of the truss only. pplicable, or consult qualified building 30.0 psf (flat roof snow); Category II; s have been considered for this desig signed for greater of min roof live loa her live loads. 0 unless otherwise indicated. us or minus 5 degree rotation about i 1-4-0 oc. signed for a 10.0 psf bottom chord liv onnection (by others) of truss to bear as with fixed heels" Member end fixity	=15ft; B=45ft; L=24ft; eav 0 to 10-0-0, Corner(3) 10- rces & MWFRS for react For studs exposed to wi g designer as per ANSI/T Exp C; Fully Exp.; Ct=1. gn. d of 20.0 psf or 2.00 time ts center. re load nonconcurrent with ing plate capable of withs model was used in the a	e=2ft; Cat. II; Exp C; 0-0 to 13-0-0 zone; ci ions shown; Lumber I ind (normal to the face PI 1. 1 s flat roof load of 30.0 th any other live loads standing 100 lb uplift a analysis and design of	enclosed; M antilever lef DOL=1.60 p e), see Star ) psf on ove ; at joint(s) e; f this truss.	/WFRS (all ft and right e plate grip ndard Indust erhangs xcept (jt=lb)	xposed ry 2=218,	ALCO PARTY	PE-46766 P
								July 26,2017

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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
 **NSI/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.



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			8-10-8	'
_Plate Offsets (X,Y) [2	2:0-0-8,0-0-0]			
LOADING (psf) TCLL 30.0 (Roof Snow=30.0) TCDL 7.5 BCLL 0.0 BCDL 7.5	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	CSI. TC 0.27 BC 0.43 WB 0.23 (Matrix-M)	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.12         6-9         >877         240           Vert(TL)         -0.26         6-9         >399         180           Horz(TL)         0.01         6         n/a         n/a	PLATES         GRIP           MT20         197/144           Weight: 29 lb         FT = 0%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

end verticals.

#### LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 WEBS

## REACTIONS. (lb/size) 2=495/0-3-8, 6=386/Mechanical Max Horz 2=98(LC 10) Max Uplift 2=-179(LC 11), 6=-137(LC 11)

Max Grav 2=524(LC 2), 6=462(LC 2)

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

TOP CHORD 2-10=-806/354, 10-11=-790/357, 3-11=-749/361

BOT CHORD 2-6=-424/767

3-6=-802/427

WEBS

## NOTES-

1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; partially; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-0-0 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

2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.

5) Plates checked for a plus or minus 5 degree rotation about its center.

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

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 6=137.

9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



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

Rigid ceiling directly applied or 8-11-13 oc bracing



	L		8-10-8			
	1		8-10-8			
Plate Offsets (X,Y) [2:	0-0-12,Edge]					
LOADING (psf) TCLL 30.0 (Roof Snow=30.0) TCDL 7.5 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	CSI. TC 0.26 BC 0.26 WB 0.25 (Matrix-M)	<b>DEFL</b> . Vert(LL) - Vert(TL) - Horz(TL)	in (loc) 0.03 7-12 0.05 7-12 0.01 6	l/defl L/d >999 240 >999 180 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 31 lb         FT = 0%

#### LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

 BOT CHORD
 Rigid ceiling directly applied or 9-0-9 oc bracing.

REACTIONS. (lb/size) 2=488/0-3-8, 6=393/Mechanical

Max Horz 2=98(LC 10)

Max Uplift 2=-183(LC 11), 6=-133(LC 11) Max Grav 2=518(LC 2), 6=469(LC 2)

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

TOP CHORD 2-13=-892/312, 13-14=-865/314, 3-14=-828/319

BOT CHORD 2-7=-426/839, 6-7=-423/844

WEBS 3-6=-883/426

#### NOTES

- Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; partially; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-0-0 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
- Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1

4) Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs
- non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.

7) Gable studs spaced at 1-4-0 oc.

- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=183, 6=133.

11) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



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	9-0-0										
		1			9-0-0						
Plate Offsets (	(X,Y) [2:0-	-3-4,Edge]									
LOADING (psf TCLL (Roof Snow=3 TCDL BCLL BCDL	f) 30.0 0.0) 7.5 0.0 7.5	SPACING- 2-1 Plate Grip DOL 1 Lumber DOL 1 Rep Stress Incr Y Code IRC2009/TPI20	0-0 <b>CSI.</b> .15 TC .15 BC ES WB 107 (Matri	0.28 0.44 0.23 ix-M)	<b>DEFL.</b> Vert(LL) Vert(TL) Horz(TL)	in -0.13 -0.28 0.01	(loc) 5-8 5-8 5	l/defl >836 >380 n/a	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 29 lb	<b>GRIP</b> 197/144 FT = 0%
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SPF N 2x4 SPF N 2x4 SPF N	0.2 0.2 0.2			BRACING- TOP CHORI BOT CHORI	D	Structur end verf Rigid ce	al wood s ticals. siling dire	sheathing dire	ectly applied or 6-0-( r 8-10-8 oc bracing.	) oc purlins, except
REACTIONS.	(lb/size) Max Horz Max Uplift2	2=502/0-3-8, 5=370/Mecha 2=98(LC 10) 2=-182(LC 11), 5=-133(LC	nical 11)								

Max Grav 2=533(LC 2), 5=442(LC 2)

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

TOP CHORD 2-9=-811/353, 9-10=-793/356, 3-10=-751/361

BOT CHORD 2-5=-433/769

WEBS 3-5=-807/439

NOTES-

 Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; partially; MWFRS (all heights) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.

5) Plates checked for a plus or minus 5 degree rotation about its center.

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

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=182, 5=133.

9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



7777 Greenback Lane Suite 109 Citrus Heights, CA 95610

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 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
 **NSI/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.



Plate Offsets (X,Y) [1:0	)-0-12,Edge]			
LOADING (psf)           TCLL         30.0           (Roof Snow=30.0)           TCDL         7.5           BCLL         0.0           BCDL         7.5	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2009/TPI2007	CSI. TC 0.36 BC 0.22 WB 0.00 (Matrix-M)	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.04         3-6         >999         240           Vert(TL)         -0.08         3-6         >845         180           Horz(TL)         0.00         1         n/a         n/a           Weight:         14 lb         FT = 0%	
			<b>DRAGNO</b>	

#### LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

## BRACING-

 TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=289/0-3-8, 3=204/Mechanical

Max Horz 1=58(LC 10)

Max Uplift 1=-54(LC 11), 3=-39(LC 11)

Max Grav 1=300(LC 2), 3=225(LC 2)

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

#### NOTES-

1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-5-12 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) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1

3) Unbalanced snow loads have been considered for this design.

4) Plates checked for a plus or minus 5 degree rotation about its center.

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



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0-0 <sub>1</sub> 10			10-9-12	
0-0-10			10-9-2	I
LOADING (psf) TCLL 30.0 (Roof Snow=30.0) TCDL 7.5 BCLL 0.0 BCDL 7.5	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	CSI. TC 0.29 BC 0.20 WB 0.05 (Matrix)	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         n/a         -         n/a         999           Vert(TL)         n/a         -         n/a         999           Horz(TL)         0.00         3         n/a         n/a           Weight: 26 lb         FT = 0%	
LUMBER-		L	BRACING-	

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2 TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

## REACTIONS. (lb/size) 1=183/10-8-8, 3=183/10-8-8, 4=471/10-8-8

Max Horz 1=-40(LC 9) Max Uplift 1=-41(LC 11), 3=-41(LC 11), 4=-75(LC 11)

Max Grav 1=192(LC 2), 3=192(LC 3), 4=471(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-4=-331/161

## WEBS

#### NOTES-

1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-4-14, Exterior(2) 5-4-14 to 8-4-14 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) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1

3) Unbalanced snow loads have been considered for this design.

4) Plates checked for a plus or minus 5 degree rotation about its center.

5) Gable requires continuous bottom chord bearing.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



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2x4 ⋍

2x4 🗢

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

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

0-0 <u>-10</u> 0-0-10			6-9-12 6-9-2	
Plate Offsets (X, Y) [2:	U-2-U,Edgej			
LOADING (psf)           TCLL         30.0           (Roof Snow=30.0)           TCDL         7.5           BCLL         0.0           BCDL         7.5	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	CSI. TC 0.13 BC 0.27 WB 0.00 (Matrix)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 3 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 14 lb         FT = 0%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

#### LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

REACTIONS. (lb/size) 1=239/6-8-8, 3=239/6-8-8 Max Horz 1=23(LC 8)

Max Uplift 1=-45(LC 9), 3=-45(LC 9)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-287/199, 2-3=-287/199

#### NOTES-

- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; enclosed; MWFRS (all
- heights) 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
- 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1
- 3) Plates checked for a plus or minus 5 degree rotation about its center.

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



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