

**City of Portland, Oregon - Bureau of Development Services** 

1900 SW Fourth Avenue • Portland, Oregon 97201 | 503-823-7300 | www.portlandoregon.gov/bds



## **Deferred Submittal Requirements and Application**

#### Minimum Submittal Requirements (check all boxes and sign below):

For a full list of deferred submittal guidelines, please visit: www.portlandoregon.gov/bds/article/754963

- A copy of this application
- Plans stamped and signed by a Design Engineer or Architect registered in Oregon. One PDF copy of plans for electronic submittals or three copies for paper submittals.
- Calculations and product information. One PDF copy for electronic submittals or two copies for paper submittals.
- Prior to submitting the deferred submittal, the Engineer of Record and/or Architect of Record responsible for the building shall review the deferred submittal plans and supporting materials and add a notation indicating that the deferred submittal documents have been reviewed and found to be in general conformance with the design of the building. The notation shall be made on the deferred submittal drawings. Review stamps on letters of transmission are not acceptable.
   Exception: the notation is not required on deferred submittals for fire spinklers or roof trusses in residential construction when an Engineer or Architect of Record is not involved with the design of the building.
- Plan views and elevations identifying the location(s) as approved by the Engineer and/or Architect of Record must be submitted as appropriate but are required when the deferred submittal items include exterior elements.

# I certify this deferred submittal application meets the minimum submittal requirements as outlined above.

Applicant Signature: Sergey Mara	ndyuk Date: 12/02/20
Applicant Submittal Information: Applicant name: Sergey Marandyuk	
Address: 8101 NE Glisan St	
City: Portland	State: OR Zip Code: 97213
Phone: 971-322-3318	Email: sergey@modernnw.com
Value of deferred submittal: \$ <u>5000</u> Job Site Address: <mark>7125 SW 45th Ave</mark>	Issued main building permit #: 18-209873-RS
Description/Scope of work:	
Contractor Name: Modern NW	ССВ: 198585
Engineer/Architect of Record for the build construction when an Engineer or Architect Name: Sherman Engineering	Iding information (Not required for roof trusses in residential of Record is not involved with the design of the building) Phone: (503) 230-8876
Design Engineer for the deffered items Name. MiTek USA, Inc	Bhono. 951-245-9525

#### DEFERRED SUBMITTAL REQUIREMENTS AND APPLICATION

continued on reverse

#### Fees

An invoice with permit fees will be sent to the applicant once minimum submittal requirements have been verified. Deferred submittal (DFS) fees are collected in addition to the standard building review fee paid on the main building permit. DFS fees cover the cost of the additional processing and review time associated with the design build element. The DFS fee for processing and reviewing deferred plan submittals is 10 percent of the building permit fee calculated using the value of the deferred portion of the project with a minimum fee of \$195 for 1 & 2 family dwelling projects or \$510 for commercial and all other projects.

The Bureau of Development Services (BDS) fee schedule is also available on the BDS web site at <a href="http://www.portlandoregon.gov/bds/article/102792">www.portlandoregon.gov/bds/article/102792</a>

#### **Helpful Information**

Bureau of Development Services 1900 SW 4th Avenue, Portland, OR 97201

#### Submit your plans to:

Development Services Center (DSC), First Floor, For Hours Call 503-823-7310 | Select option 1 or visit www.portlandoregon.gov/bds

#### **Important Telephone Numbers**

BDS main number	503-823-7300
DSC automated information line	503-823-7310
Building code information	503-823-1456
BDS 24 hour inspection request line	503-823-7000
Residential information for	
one and two family dwellings	503-823-7388
City of Portland TTY	503-823-6868

Information is subject to change.

#### DEFERRED SUBMITTAL REQUIREMENTS AND APPLICATION

#### Permit #: <u>18-209873-DFS-01-RS</u>

Date: \_\_\_\_06/06/21\_

#### Customer name and phone number: Sergey Marandyuk (971) 322-3318\_

*Note:* In the spaces below, please provide specific information concerning the changes that you have made in response to the checksheet. Note the checksheet item number, your response or a description of the revision, and the location of the change on the plans (i.e. page number and/or detail number). Use as many lines as needed. *If the item is not in response to a checksheet, write "Applicant" in the column labeled "Checksheet item number."* 

Checksheet item		
number	Description of changes, corrections, additions, etc.	Location on plans
<u>1.</u>	Plans have been revised to match truss layout	A1, A4, A5
	RECEIVED	
	06/06/2024	

Plan Bin Location: SINGLE PDF



#### **CITY OF PORTLAND, OREGON – BUREAU OF DEVELOPMENT SERVICES**



1900 SW Fourth Avenue, Suite 5000 • Portland, Oregon 97201 • www.portlandonline.com/bds

#### LIFE SAFETY CHECKSHEET

Review Date: February 12, 2021

Application #: **18-209873-DFS-01-RS** IVR #: **4643584** 

То:	APPLICANT	SERGEY MARANDYUK MODERN NW INC 8101 NE GLISAN ST	Work: Home:	(971) 322-3318
		PORTLAND, OR 97213	Email:	SERGEY@MODERNNW.COM
From:	BDS RESIDENTIAL PLANS EXAMINER	DAVID WOOD	Phone: Email:	(503) 865-6545 David.Wood@portlandoregon.gov
<b>CC</b> <sup>1</sup>				

C:		TAYLOR CASSIE L TAYLOR & RICHARD TAYLOR	
	OWNER	4508 SW NEVADA ST	
		PORTLAND, OR 97219	

#### **PROJECT INFORMATION**

Street Address:	7125 SW 4	5TH AVE			
Description of Work:	SINGLE P	SINGLE PDF- DFS FOR TRUSSES			
The following assumptio	ons were mad	le when reviewing your project:			
Building Area Stories		Sprinklers			
3,054 SF		2			

#### PLAN REVIEW

Based	Based on the plans submitted, the items listed below appear to be missing or not in conformance with the Oregon					
Reside	Residential Specialty Code and/or other City requirements.					
Item #	Location on plans	Code Section	Clarification / Correction Required			
1	Truss	R301.1,	The truss layout submitted does not match the approved Roof Plan as shown			
	Layout	R106.1.1	on approved plan page S3. Please correlate truss designs to approved Roof			
			Plan (or submit a Revision, with supporting calculations, to revise roof framing			
			design).			

End of Checksheet

Please update all sets of submitted drawings by either replacing the original sheets with new sheets, or editing the originally submitted sheets. You can review "How to Update Your Plans in Response to a Checksheet" at http://www.portlandoregon.gov/bds/article/93028 Visit the BDS website for more helpful information and a current listing of services available in the Development Services Center.

Please complete the attached Checksheet Response Form and include it with your re-submittal 06/06/2021

If you have specific questions concerning this Checksheet, please call me at the phone number listed above. To check the status of your project, go to <u>http://www.portlandonline.com/bds/index.cfm?c=34194</u>. Or, you may request the status to be faxed to you by calling 503-823-7000 and selecting option 4.

You may receive separate Checksheets from other City agencies that will require separate responses.

**RECHECK FEE**: Please note that plan review fees for Life Safety, Structural, Site Development and Planning and Zoning will cover the initial review and up to two checksheets and the reviews of the applicant's responses to those checksheets. All additional checksheets and reviews of applicant responses will be charged an additional fee per checksheet.

Appeals: Pursuant to City Code Chapters 24.10, 25.07, 26.03, 27.02, and 28.03, you may appeal any code provision cited in this Checksheet to the BDS Administrative Board of Appeal within 180 calendar days of the review date. For information on the appeals process and costs, including forms, appeal fee, payment methods and fee waivers, go to www.portlandoregon.gov/bds/appeals, call (503) 823-7300 or come in to the Development Services Center. Permit application expiration will not be extended pending resolution of any administrative appeal.

#### Structural Checksheet Response

#### Permit #: <u>18-209873-DFS-01-RS</u>

Date: \_\_\_\_06/06/21\_

#### Customer name and phone number: <u>Sergey Marandyuk (971) 322-3318</u>

Note: Please number each change in the '#' column. Use as many lines as necessary to describe your changes. Indicate which reviewer's checksheet you are responding to and the item your change addresses. If the item is not in response to a checksheet, write **customer** in the last column.

#	Description of changes, revisions, additions,	Checksheet and
	etc.	item #
1.	Noted	
2.	Plans have been revised to match truss layout (18-209873-REV01-RS)	
	DECENTED	
	RECEIVED	
	06/06/2021	

(for office use only)

#### ×

#### STRUCTURAL CHECKSHEET

#### Application # : **18-209873-DFS-01-RS** Review Date : **February 12, 2021**

#### **Residential 1 & 2 Family Permit**

То:	APPLICANT	SERGEY MARANDYUK MODERN NW INC 8101 NE GLISAN ST PORTLAND, OR 97213	Work: : e-Mail:	971 322-3318 SERGEY@MODERNNW.COM
From:	BDS Structural Engineer	Ronald Tiland	Phone: Email:	503-865-6550 Ronald.Tiland@portlandoregon.gov
cc:	OWNER	TAYLOR CASSIE L TAYLOR & RICHARD TAYLOR 4508 SW NEVADA ST PORTLAND, OR 97219		

#### PROJECT INFORMATION

Street Address: 7125 SW 45TH AVE

Description of Work: SINGLE PDF- DFS FOR TRUSSES

Based o	Based on the plans and specifications submitted, the following items appear to be missing or not in conformance with the				
Oregon	Structural S	pecialty Code and /	or other city, state, or federal requirements.		
Item #	Location on plans	Code Section	Clarification / Correction Required		
1.	General	OSSC 107.2.1, ORSC R106.1.1	When responding to check sheet items, please cloud the revisions and/or additional information on the drawings submitted and itemize the changes on the Structural Checksheet Response page provided to expedite the review process.		
2.	General	OSSC 1604.4, ORSC R301.1	The truss calculation layout plan does not match the truss layout indicated in the Roof Framing Plan on sheet S3. Please clarify/revise.		

# RECEIVED 06/06/2021

#### STRUCTURAL CHECKSHEET

#### INSTRUCTIONS

To respond to this checksheet please visit here (<u>https://www.portland.gov/bds/permit-review-process</u>) and view the section on <u>Checksheet response - submitting corrections</u>. Visit the BDS website here (<u>https://www.portland.gov/bds/development-services-center</u>) for more helpful information and a current listing of services available in the Development Services Center.

Please complete the attached Checksheet Response Form and include it with your re-submittal.

If you have specific questions concerning this Checksheet, please call me at the phone number listed above.

To check the status of you project, go to (<u>https://www.portlandmaps.com/advanced/?action=permits</u>). Or, you, may request the status to be faxed to you by calling 503.823.7000 and selecting option 4. Please have your IVR and fax numbers available.

You may receive separate Checksheets from other City agencies that will require separate responses.

RECHECK FEE: Please note that plan review fees for Life Safety, Structural, Site Development and Planning and Zoning will cover the initial review and up to two checksheets and the reviews of the applicant's responses to those checksheets. All additional checksheets and reviews of applicant responses will be charged an additional fee per checksheet.

Appeals: Pursuant to City Code Chapters 24.10, 25.07, 26.03, 27.02, and 28.03, you may appeal any code provision cited in this Checksheet to the BDS Administrative Board of Appeal within 180 calendar days of the review date. For information on the appeals process and costs, including forms, appeal fee, payment methods and fee waivers, go to <u>www.portlandoregon.gov/bds/appeals</u>, call (503) 823-7300 or come in to the Development Services Center. Permit application expiration will not be extended pending resolution of any administrative appeal.





#### 18 209873 DFS 01 RS

MiTek USA, Inc. 250 Klug Circle Corona, CA 92880 951-245-9525

Re: 205950-A Nevade

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

Pages or sheets covered by this seal: K8855517 thru K8855527

My license renewal date for the state of Oregon is December 31, 2021.

BED PROFES	
STENGINEE	SHOP DRAWING / SUBMITTAL REVIEW
LO EN A	REVIEWED REVIEWED WITH CHANGES NOTED
89200PE	
DREGON HUNDAY 14, 2014 MERRILL BAT	SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOBSITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION. COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.         By:
RENEWAL PATE. 12-31-2021	January 11,2021

Baxter, David

**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 property incorporate these designs into the overall building designer ANSI/IPI 1. Chapter 2.

 design per ANSI/IPL1 Chapter 2.

 City of Portland

 Reviewed for code compliance

 Date: 07/12/21

 Project #: 18-209873-DFS-01-RS



<b>—</b>	6-4-6	12-5-3	18-6-0	23-6-3		30-7-10		37-0-0	
Plate Offsets	(X,Y) [D:0-3-0,0	-3-0], [F:0-2-12,0-3-0], [L:0-3-12,0-3-8]	6-0-13	5-0-3		/-1-/		6-4-6	· · · · · · · · · · · · · · · · · · ·
LOADING (p TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	25.0 20.8/30.0 10.0 0.0 * 10.0	SPACING- 1-4-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.42 BC 0.69 WB 0.71 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (lou -0.36 K· -0.90 K· 0.19 0.23 K·	c) l/defl -L >999 -L >487 I n/a -L >999	L/d 240 180 n/a 360	PLATES MT20 Weight: 175 lb	<b>GRIP</b> 220/195 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS REACTIONS	LUMBER- TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G       BRACING- TOP CHORD Structural wood sheathing directly applied or 3-0-2 oc purlins, except end verticals.         WEBS       2x4 DF Stud/Std G       BOT CHORD       Rigid ceiling directly applied or 6-5-3 oc bracing.         REACTIONS.       (size)       O=0-5-8, I=0-5-8								
FORCES	Max Uplift O=-161(LC 14), I=-159(LC 14) Max Grav O=1204(LC 19), I=1101(LC 2)								
TOP CHORD BOT CHORD	B-C=-1642/455 N-O=-176/891, I-J=-631/2182	, C-D=-2951/801, D-E=-3819/1054, E- M-N=-583/2381, L-M=-916/3526, K-L=	F=-4069/1137, F-G=-3 -1100/4058, J-K=-109	3246/892 97/3868,					
WEBS	/EBS B-O=-1422/399, B-N=-281/1211, C-N=-1161/363, C-M=-188/833, D-M=-812/283, D-L=-85/459, E-L=-417/163, F-J=-782/303, G-J=-236/1175, G-I=-2344/707								
NOTES- 1) Wind: ASC Enclosed; for membe 2) TCLL: ASC roof snow: 3) Unbalance 4) This truss 5) * This trus	CE 7-10; Vult=140mp MWFRS (directiona ers and forces & MW CE 7-10; Pr=25.0 ps Lumber DOL=1.15 ed snow loads have has been designed s has been designed	oh Vasd=111mph; TCDL=4.2psf; BCDI I) and C-C Exterior(2) zone; cantilever IFRS for reactions shown; Lumber DOI f (roof live load: Lumber DOL=1.00 Pla Plate DOL=1.15); Category II; Exp B; F been considered for this design. for a 10.0 psf bottom chord live load no d for a live load of 20.0psf on the bottor	L=6.0psf; h=25ft; B=45 left and right exposed L=1.60 plate grip DOL: te DOL=1.00); Pg=30. Fully Exp.; Ct=1.10 pnconcurrent with any m chord in all areas with	5ft; L=37ft; eave=5ft; ; end vertical left an =1.60 .0 psf (ground snow other live loads. here a rectangle 3-6	Cat. II; Exp E d right expose ); Pf=20.8 psf -0 tall by 2-0-(	3; ed;C-C (flat 0 wide		STERED PROFES	25102

will fit between the bottom chord and any other members.

6) A plate rating reduction of 20% has been applied for the green lumber members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) O=161, I=159.



**RENEWAL DATE: 12-31-2021** January 11,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED Design valid for use only with MiTek® connectors. This design is based only upon pa a truss system. Before use, the building designer must verify the applicability of desig building design. Bracing indicated is to prevent buckling of individual truss web and/o is always required for stability and to prevent collapse with possible personal injury ar fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 2

DI E USE ameters stort, and is to Do individual building comporter, not parameters and properly incorporate this design into the verall chord members only. Additional temporary and permale it bracing is poppy of the content of the stort of the stort of the stort ANSI/TP11 Quality Criteria, DSB-89 and BCS E illding Component 03 Tytals of TMD 200601





6-4-6	7-4-9 12-5-3	18-6-0	23-6-3	24-6-13	30-7-10	36-0-0			
Plate Offsets (X,Y) [D:0-3-0	),0-3-0], [F:0-2-12,0-3-0], [L:0-3-0,0-3-0]	0-0-13	5-0-3	1-0-10	0-0-13	5-4-0			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 1-4-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.35 BC 0.20 WB 0.39 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.04 M -0.11 L-M 0.02 K 0.02 M	l/defl L/d >999 240 >999 180 n/a n/a >999 360	PLATES MT20 Weight: 171 lb	<b>GRIP</b> 220/195 FT = 20%		
LUMBER- TOP CHORD 2x4 DF No.1&E BOT CHORD 2x4 DF No.1&E WEBS 2x4 DF Stud/St	Btr G Btr G td G	В В В	RACING- DP CHORD DT CHORD	Structural wood except end verti Rigid ceiling dire	sheathing directly app cals. actly applied or 6-0-0 o	blied or 6-0-0 oc purlins, oc bracing.	,		
REACTIONS. (size) O=( Max Horz O=- Max Uplift O=- Max Grav O=7	J-5-8, K=0-5-8, I=0-5-8 ·126(LC 10) ·120(LC 10), K=-189(LC 14), I=-48(LC 1 704(LC 19), K=1346(LC 19), I=206(LC 2	1) 2)							
FORCES.         (lb) - Max. Comp./l           TOP CHORD         B-C=-815/229           BOT CHORD         N-O=-68/495           WEBS         B-O=-787/229           F-K=-836/30	Max. Ten All forces 250 (lb) or less ex 9, C-D=-1067/284, D-E=-495/140, E-F= , M-N=-224/1068, L-M=-205/935, I-J=-9 5, B-N=-86/502, C-N=-413/158, D-L=-6 5, F-J=0/321, G-I=-311/130	cept when shown. -236/921 6/262 59/206, E-L=-168/856, E-K	(=-1169/365,						
<ul> <li>NOTES- <ol> <li>Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; 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 &amp; MWFRS for reactions shown; Lumber DOL=1.60</li> <li>TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.00); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10</li> <li>Unbalanced snow loads have been considered for this design.</li> <li>All plates are 3x4 MT20 unless otherwise indicated.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.</li> <li>A plate rating reduction of 20% has been applied for the green lumber members.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I except (jt=lb) O=120, K=189.</li> </ol></li></ul>									

# ERRI

**RENEWAL DATE: 12-31-2021** January 11,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED Design valid for use only with MiTek® connectors. This design is based only upon pa a truss system. Before use, the building designer must verify the applicability of desig building design. Bracing indicated is to prevent buckling of individual truss web and/o is always required for stability and to prevent collapse with possible personal injury ar fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 2

DI E USE meters stort and isto Do individual building comporter, not parameters and properly incorporate this design into the verall chord members only. Additional temporary and permale it bracing in **DEPKIQUAREJCOLOGICAREJCONDIDUEDESCO** the **ANSI/TP11 Quality Criteria, DSB-89 and BCS E illding Component** 03 **TVAREOT7MD 20**501





	6-4-6	12-5-3	18-6-0	19-0 <sub>r</sub> 0	23-6-3			30-7-1	0	36-0-0	
	6-4-6	6-0-13	6-0-13	0-6-0	4-6-3			7-1-7	•	5-4-6	I
Plate O	offsets (X,Y) [D:0-3-0,	0-3-0], [F:0-3-0,0-3-0], [L:0-3-0,0-3-0]									
LOADII TCLL (r Snow (I TCDL BCLL BCDL	NG (psf) oof) 25.0 Pf/Pg) 20.8/30.0 10.0 0.0 * 10.0	SPACING-1-4-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.33 BC 0.18 WB 0.37 Matrix-MS		<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.03 -0.11 0.02 0.02	(loc) J-K J-K I J-K	l/defl >999 >999 n/a >999	L/d 240 180 n/a 360	PLATES MT20 Weight: 171 lb	<b>GRIP</b> 220/195 FT = 20%
LUMBE	R-			BRACI	NG-					-	
TOP CI	HORD 2x4 DF No.1&Bt	r G		TOP C	HORD	Structura	al wood	sheathin	g directly ap	plied or 6-0-0 oc purlins	,
BOT CI WEBS	HORD 2x4 DF No.1&Bt 2x4 DF Stud/Std	r G I G		BOT C	HORD	except e Rigid cei	nd verti ling dire	cals. ectly appl	ied or 6-0-0	oc bracing.	
FORCE	TIONS. (size) O=0- Max Horz O=-1 Max Uplift O=-1 Max Grav O=5 <sup>-</sup>	5-8, L=0-5-8, I=0-5-8 26(LC 10) 02(LC 10), L=-189(LC 14), I=-72(LC 11 11(LC 19), L=1355(LC 19), I=393(LC 2) ax. Ten All forces 250 (Ib) or less exc	) ept when shown.								
BOT CI WEBS	HORD N-O=-27/342, B-O=-542/159, F-K=-599/238,	M-N=-87/557, J-K=-196/655, I-J=-163/5 , C-M=-364/139, D-M=-81/522, D-L=-10 G-I=-637/222	36 71/316, E-L=-852/28	4, E-K=-6	9/437,						
NOTES 1) Wind Encl for m 2) TCLI roof 3) Unba 4) All p 5) This 6) * Thi will f 7) A pla	4: ASCE 7-10; Vult=140m osed; MWFRS (directiona nembers and forces & MV L: ASCE 7-10; Pr=25.0 pr snow: Lumber DOL=1.15 alanced snow loads have lates are 3x4 MT20 unless truss has been designed s truss has been designed it between the bottom cf 200	aph Vasd=111mph; TCDL=4.2psf; BCDI al) and C-C Exterior(2) zone; cantilever VFRS for reactions shown; Lumber DOI sf (roof live load: Lumber DOL=1.00 Pla is Plate DOL=1.15); Category II; Exp B; F been considered for this design. is otherwise indicated. for a 10.0 psf bottom chord live load no ed for a live load of 20.0psf on the bottom ord and any other members.	L=6.0psf; h=25ft; B=4 left and right exposed =1.60 plate grip DO te DOL=1.00); Pg=3i Fully Exp.; Ct=1.10 Inconcurrent with any n chord in all areas w	5ft; L=36 d ; end ve L=1.60 0.0 psf (gi / other live vhere a re	ft; eave=5ft; rtical left and round snow) e loads. ctangle 3-6-	Cat. II; E d right ex ; Pf=20.8 0 tall by 2	xp B; posed; } psf (fla 2-0-0 w	C-C at ide	REGIO	STERED PROFES	25501AA

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I except (it=lb) O=102, L=189.



**RENEWAL DATE: 12-31-2021** January 11,2021

> MiTek 250 Klug Circle Corona, CA 92880

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED Design valid for use only with MiTek® connectors. This design is based only upon pa a truss system. Before use, the building designer must verify the applicability of desig building design. Bracing indicated is to prevent buckling of individual truss web and/o is always required for stability and to prevent collapse with possible personal injury ar fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 2

DI E USE ameters stort, and is to Do individual building comporter, not parameters and properly incorporate this design into the verall chord members only. Additional temporary and permale it bracing is poppy of the content of the stort of the stort of the stort ANSI/TP11 Quality Criteria, DSB-89 and BCS E illding Component 03 Tytals of TMD 200601



6-4-6	12-5-3	18-6-0	19-0 <sub>1</sub> 0 23-6-3			30-7-1	0	36-0-0	
<u> </u>	<u> </u>	6-0-13	0'-6-0 4-6-3			7-1-7		5-4-6	
LoADING (psf)           TCLL (roof)         25.0           Snow (Pf/Pg)         20.8/30.0           TCDL         10.0	SPACING- 1-4-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr. YES	CSI. TC 0.33 BC 0.18 WB 0.37	DEFL. Vert(LL) Vert(CT Horz(C]	in -0.03 ) -0.11 -0.02	(loc) J-K J-K	l/defl >999 >999	L/d 240 180 p/a	PLATES MT20	<b>GRIP</b> 220/195
BCLL 0.0 * BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL	.) 0.02	J-K	>999	360	Weight: 171 lb	FT = 20%
LUMBER-           TOP CHORD         2x4 DF No.1&Bi           BOT CHORD         2x4 DF No.1&Bi           WEBS         2x4 DF Stud/Sta	ir G ir G i G	1	BRACING- TOP CHORD BOT CHORD	Structura except ei Rigid cei	al wood s nd vertic ling diree	sheathin als. ctly appl	g directly ap ied or 6-0-0	pplied or 6-0-0 oc purlins oc bracing.	,
REACTIONS. (size) O=0. Max Horz O=-1 Max Uplift O=-1 Max Grav O=5	-5-8, L=0-5-8, I=0-5-8 26(LC 10) 02(LC 10), L=-189(LC 14), I=-72(LC 11 11(LC 19), L=1355(LC 19), I=393(LC 2)	)							
FORCES.         (lb) - Max. Comp./M           TOP CHORD         B-C=-495/143           BOT CHORD         N-O=-27/342,           WEBS         B-O=-542/159           F-K=-599/238,	lax. Ten All forces 250 (lb) or less exc , C-D=-335/87, D-E=-208/828, F-G=-69 M-N=-87/557, J-K=-196/655, I-J=-163/5 , C-M=-364/139, D-M=-81/522, D-L=-10 , G-I=-637/222	ept when shown. 5/179 536 171/316, E-L=-852/28	4, E-K=-69/437,						
<ul> <li>NOTES-</li> <li>1) Wind: ASCE 7-10; Vult=140m Enclosed; MWFRS (direction: for members and forces &amp; MV</li> <li>2) TCLL: ASCE 7-10; Pr=25.0 p roof snow: Lumber DOL=1.15</li> <li>3) Unbalanced snow loads have</li> <li>4) All plates are 3x4 MT20 unles</li> <li>5) This truss has been designed</li> <li>6) * This truss has been designed</li> <li>6) * This truss has been designed</li> <li>7) A plate rating reduction of 20°</li> </ul>	aph Vasd=111mph; TCDL=4.2psf; BCDi al) and C-C Exterior(2) zone; cantilever WFRS for reactions shown; Lumber DO sf (roof live load: Lumber DOL=1.00 Pla is Plate DOL=1.15); Category II; Exp B; I been considered for this design. so otherwise indicated. I for a 10.0 psf bottom chord live load no d for a live load of 20.0psf on the bottor ord and any other members. h as been applied for the green lumbe	L=6.0psf; h=25ft; B=4 left and right expose L=1.60 plate grip DO the DOL=1.00); Pg=3 Fully Exp.; Ct=1.10 ponconcurrent with any m chord in all areas v er members.	15ft; L=36ft; eave=5 d ; end vertical left a L=1.60 0.0 psf (ground snor y other live loads. vhere a rectangle 3-	t; Cat. II; E nd right ex v); Pf=20.8 6-0 tall by ;	ixp B; posed;C 3 psf (flat 2-0-0 wid	c-C d	REGI	STERED PROFES	estimate a

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I except (it=lb) O=102, L=189.



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DI E USE ameters stort, and is to Do individual building comporter, not parameters and properly incorporate this design into the verall chord members only. Additional temporary and permale it bracing is poppy of the content of the stort of the stort of the stort ANSI/TP11 Quality Criteria, DSB-89 and BCS E illding Component 03 Tytals of TMD 200601

Project #: 18-209873-DFS-01-RS

MiTek 250 Klug Circle Corona, CA 92880



L	6-4-6	12-5-3	18	6-0	19-0	0 23-6-3	1		30-7-10		37-0-0	
	6-4-6	6-0-13	6-	-13	0-6-	-0 4-6-3			7-1-7		6-4-6	
Plate Offsets	(X,Y) [D:0-3-0,0-	-3-0], [F:0-3-0,0-3-0], [L:0-3	-0,0-3-0]									
LOADING (p TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	osf) 25.0 20.8/30.0 10.0 0.0 * 10.0	SPACING- 1 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPI20	-4-0 1.00 1.00 YES 014	C <b>SI.</b> TC 0 BC 0 WB 0 Matrix-M	0.35 0.18 0.39 MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.03 -0.12 0.02 0.02	(loc) J-K J-K I J-K	l/defl >999 >999 n/a >999	L/d 240 180 n/a 360	PLATES MT20 Weight: 175 lb	<b>GRIP</b> 220/195 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS	<ul> <li>2x4 DF No.1&amp;Btr</li> <li>2x4 DF No.1&amp;Btr</li> <li>2x4 DF Stud/Std 0</li> </ul>	G G 3			E T E	BRACING- TOP CHORD BOT CHORD	Structura except e Rigid cei	al wood nd verti ling dire	sheathin cals. ectly appl	g directly a ied or 6-0-0	pplied or 6-0-0 oc purlins, ) oc bracing.	
REACTIONS	. (size) O=0-5 Max Horz O=-12 Max Uplift O=-99 Max Grav O=498	-8, L=0-5-8, I=0-5-8 6(LC 10) (LC 10), L=-197(LC 14), I= 8(LC 19), L=1411(LC 19), I=	-73(LC 11) =413(LC 2)									
FORCES. ( TOP CHORD BOT CHORD WEBS	lb) - Max. Comp./Ma: B-C=-473/135, ( N-O=-23/332, M B-O=-526/153, ( F-K=-682/260, (	x. Ten All forces 250 (lb) C-D=-283/69, D-E=-240/93 I-N=-74/522, K-L=-254/82, C-M=-389/147, D-M=-90/5 G-I=-770/265	or less except wh 6, F-G=-799/204 J-K=-203/687, I-J= 50, D-L=-1107/326	en show -222/72 , E-L=-8	vn. 26 898/299, F	E-K=-83/482,						
NOTES- 1) Wind: ASC Enclosed; for membe 2) TCLL: ASC roof snow: 3) Unbalance 4) All plates a 5) This truss 6) * This trus will fit betw 7) A plate rat 8) Provide m	CE 7-10; Vult=140mp MWFRS (directional) ers and forces & MWI CE 7-10; Pr=25.0 psf Lumber DOL=1.15 F ed snow loads have b are 3x4 MT20 unless has been designed fs s has been designed veen the bottom chor ing reduction of 20% echanical connection	h Vasd=111mph; TCDL=4 ) and C-C Exterior(2) zone FRS for reactions shown; L (roof live load: Lumber DC Plate DOL=1.15); Category been considered for this de otherwise indicated. or a 10.0 psf bottom chord for a live load of 20.0psf o d and any other members. has been applied for the g o (by others) of truss to bea	2psf; BCDL=6.0ps cantilever left and umber DOL=1.60 vL=1.00 Plate DOL II; Exp B; Fully Ex sign. live load nonconce n the bottom chore reen lumber memi ring plate capable	f; h=25 right ex plate gr =1.00); p.; Ct=1 urrent w in all a bers. of withs	ift; B=45ft; xposed ; e rip DOL=1 Pg=30.0 1.10 vith any ot areas whe standing 1	; L=37ft; eave=5ft; end vertical left an 1.60 psf (ground snow) her live loads. re a rectangle 3-6- 100 lb uplift at joint	Cat. II; E d right ex ); Pf=20.8 -0 tall by : (s) O, I e;	xp B; posed; } psf (fla 2-0-0 w xcept (ji	C-C t ide =lb)	REG	STERED PROFES	2.3 OHAL



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L=197.

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Project #: 18-209873-DFS-01-RS



250 Klug Circle Corona, CA 92880



January 11,2021

MiTek

250 Klug Circle Corona, CA 92880

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I E USE meters shows and is to an individual building compor parameters and properly incorporate this design into the er ; not e verall e it bracing provident and the source of th ANSI/TPI1 Quality Criteria, DSB-89 and BCS E illding Component 03[Waldof7MD 20601



6-4-6	12-5-3	18-6-0	19-0 <sub>r</sub> 0 23-6-	3	30-7-10	36-0-0		
6-4-6	6-0-13	6-0-13	0-6-0 4-6-3		7-1-7	5-4-6		
Plate Offsets (X,Y) [D:0-3-0,0	D-3-0], [F:0-3-0,0-3-0], [M:0-3-0,0-3-0]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 10.0 BCLL 0.0 *	SPACING-1-4-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYES	<b>CSI.</b> TC 0.31 BC 0.20 WB 0.29	DEFL. Vert(Ll Vert(C Horz(C	in ) -0.03 T) -0.12 T) 0.01	(loc) l/defl L/d J-K >999 240 J-K >999 180 I n/a n/a	PLATES         GRIP           MT20         220/195		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(L	L) 0.02	J-K >999 360	Weight: 171 lb FT = 20%		
LUMBER- TOP CHORD 2x4 DF No.1&Bt BOT CHORD 2x4 DF No.1&Bt WEBS 2x4 DF Stud/Std	r G r G G		BRACING- TOP CHORD BOT CHORD	Structur except e Rigid ce 9-10-8 c 10-0-0 c	al wood sheathing directly app and verticals. illing directly applied or 6-0-0 o bo bracing: J-K bo bracing: I-J.	blied or 6-0-0 oc purlins, oc bracing, Except:		
REACTIONS.         All bearings 19-0-0 except (jt=length) I=0-5-8, L=0-3-8.           (lb) -         Max Horz         P=-126(LC 10)           Max Uplift         All uplift 100 lb or less at joint(s) O, N, L except P=-258(LC 36), M=-245(LC 39), I=-215(LC 39)           Max Grav         All reactions 250 lb or less at joint(s) L except P=294(LC 35), M=996(LC 2), O=412(LC 19), N=275(LC 19), I=442(LC 58)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       C-D=-220/279, D-E=-323/695, E-F=-450/333, F-G=-865/403         BOT CHORD       M-N=-368/239, J-K=-463/831, I-J=-313/614         WEBS       B-P=-284/335, B-O=-406/333, C-O=-316/335, C-N=-471/365, D-N=-269/370, D-M=-707/427, E-M=-831/276, E-K=-129/426, F-K=-574/348, F-J=-163/268, G-J=-207/382, G-I=-721/407								
<ul> <li>NOTES-</li> <li>1) Wind: ASCE 7-10; Vult=140m Enclosed; MWFRS (directiona for members and forces &amp; MV</li> <li>2) TCLL: ASCE 7-10; Pr=25.0 pa roof snow: Lumber DOL=1.15</li> <li>3) Unbalanced snow loads have</li> <li>4) All plates are 3x4 MT20 unless</li> <li>5) This truss has been designed</li> <li>6) * This truss has been designed</li> <li>6) * This truss has been designed</li> <li>7) A plate rating reduction of 20%</li> <li>8) Provide mechanical connectio (jt=lb) P=258, M=245, I=215.</li> <li>9) This truss has been designed drag loads along bottom chore</li> </ul>	ph Vasd=111mph; TCDL=4.2psf; BCDL a) and C-C Exterior(2) zone; cantilever I VFRS for reactions shown; Lumber DOL of (roof live load: Lumber DOL=1.00 Pla Plate DOL=1.15); Category II; Exp B; F been considered for this design. s otherwise indicated. for a 10.0 psf bottom chord live load no d for a live load of 20.0psf on the bottom ord and any other members. % has been applied for the green lumbe on (by others) of truss to bearing plate ca for a total drag load of 2000 lb. Lumber d from 0-0-0 to 36-0-0 for 55.6 plf.	=6.0psf; h=25ft; B=4 eft and right expose. =1.60 plate grip DO te DOL=1.00); Pg=3 iully Exp.; Ct=1.10 nconcurrent with any n chord in all areas v r members. apable of withstandir DOL=(1.33) Plate g	45ft; L=36ft; eave= d ; end vertical left L=1.60 0.0 psf (ground sno y other live loads. where a rectangle 3 ng 100 lb uplift at jo rip DOL=(1.33) Co	ift; Cat. II; I and right e w); Pf=20. -6-0 tall by int(s) O, N, nnect truss	Exp B; xposed;C-C 8 psf (flat 2-0-0 wide L except s to resist	B9200PE B9200PE AP OREGON MERRILL BAT		

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6-4-6	12-5-3	18-6-0	19-0 <sub>0</sub> 23-6-3	· · · · ·	30-7-10	36-0-0				
<u> </u>		6-0-13	0'-6-0 4-6-3		7-1-7	5-4-6				
Plate Olisets (X, Y) [D:0-3-0,0-3-	·0], [F:0-3-0,0-3-0], [L:0-3-0,0-3-0]									
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.8/30.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-1-4-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.33 BC 0.18 WB 0.39 Matrix-MS	DEFL. Vert(LL) Vert(CT Horz(C <sup>-</sup> Wind(LL	in (lo -0.03 J· ) -0.11 J· ) 0.02 -) 0.02 J·	nc) I/defl L/d -K >999 240 -K >999 180 I n/a n/a -K >999 360	PLATES MT20 Weight: 171 lb	<b>GRIP</b> 220/195 FT = 20%			
			PRACINC							
LUMBER-TOP CHORD2x4 DF No.1&Btr GBOT CHORD2x4 DF No.1&Btr GWEBS2x4 DF Stud/Std G			BRACING- TOP CHORD BOT CHORD	Structural wo except end v Rigid ceiling	ood sheathing directly a verticals. directly applied or 6-0-0	pplied or 6-0-0 oc purlins, ) oc bracing.				
REACTIONS.       (size)       O=0-5-8, L=0-5-8, l=0-5-8         Max Horz       O=-126(LC 10)         Max Uplift       O=-266(LC 36), L=-379(LC 45), I=-212(LC 39)         Max Grav       O=554(LC 35), L=1355(LC 19), I=419(LC 58)										
FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       B-C=-600/318, C-D=-460/296, D-E=-346/880, E-F=-367/302, F-G=-798/393         BOT CHORD       N-O=-219/446, M-N=-295/650, L-M=-274/217, K-L=-285/195, J-K=-451/737, I-J=-309/581         WEBS       B-O=-609/346, B-N=-250/374, C-N=-277/337, C-M=-518/373, D-M=-342/694, D-L=-1167/528, E-L=-852/284, E-K=-130/439, F-K=-599/344, F-J=-150/265, G-J=-202/358, G-I=-682/401										
<ul> <li>NOTES-</li> <li>1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; 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 &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.00 Plate DOL=1.00); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10</li> <li>3) Unbalanced snow loads have been considered for this design.</li> <li>4) All plates are 3x4 MT20 unless otherwise indicated.</li> <li>5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>6) * This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.</li> <li>7) A plate rating reduction of 20% has been applied for the green lumber members.</li> <li>8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) O=266, L=379, I=212.</li> <li>9) This truss has been designed for a total drag load of 2000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 36-0-0 for 55.6 plf.</li> </ul>										

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

B-C=-733/225, C-D=-651/208 TOP CHORD

BOT CHORD H-I=-192/524, G-H=-247/817, F-G=-143/410

WFBS B-I=-701/223, B-H=-14/282, C-G=-275/133, D-G=-63/371, D-F=-647/205

#### NOTES-

1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; 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

2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.00 Plate DOL=1.00); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

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

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

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) A plate rating reduction of 20% has been applied for the green lumber members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=150, I=135.



**RENEWAL DATE: 12-31-2021** January 11,2021

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<u>6-6-0</u> <u>6-6-0</u>			13-0-0 6-6-0						
LOADING (psf)           TCLL (roof)         25.0           Snow (Pf/Pg)         20.8/30.0           TCDL         10.0           BCDL         0.0           *         BCDL	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.31 BC 0.30 WB 0.34 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (lo -0.04 F- -0.13 F- 0.02 0.02	oc) I/defl -G >999 -G >999 E n/a F >999	L/d 240 180 n/a 360	PLATES MT20 Weight: 59 lb	<b>GRIP</b> 220/195 FT = 20%	
LUMBER-		BF	ACING-						

TOP CHORD

BOT CHORD

#### LUMBER-

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G WEBS 2x4 DF Stud/Std G

REACTIONS. (size) E=0-5-8, G=0-5-8 Max Horz G=110(LC 11) Max Uplift E=-159(LC 11), G=-147(LC 10) Max Grav E=581(LC 18), G=572(LC 2)

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

TOP CHORD B-C=-1023/311

BOT CHORD F-G=-399/1005, E-F=-277/766

B-G=-1105/453, C-F=0/405, C-E=-899/380 WFBS

#### NOTES-

1) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; 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

2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.00 Plate DOL=1.00); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

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

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

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) A plate rating reduction of 20% has been applied for the green lumber members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=159, G=147.



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

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

except end verticals.

**RENEWAL DATE: 12-31-2021** January 11,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED Design valid for use only with MiTek® connectors. This design is based only upon pa a truss system. Before use, the building designer must verify the applicability of desig building design. Bracing indicated is to prevent buckling of individual truss web and/o is always required for stability and to prevent collapse with possible personal injury ar fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 2

I E USE meters shows, and is to an individual building compor parameters and properly incorporate this design into the er ; not e verall e it bracing , not chord members only. Additional temporary and perma phone of the second s ANSI/TPI1 Quality Criteria, DSB-89 and BCS E ilding Component 03[Waldof7/MD 20601





Installing & Bracing of Metal Plate

Connected Wood Trusses.

## **Numbering System**



#### JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

#### PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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# General Safety Notes

#### Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- 3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- 8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- 16. Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

21. The design does not take into account any dynamic or other loads other than those expressly stated.

# City of Portland Reviewed for code compliance Date: 07/12/21

<sup>2</sup>roject #: 18-209873-DFS-01-RS