



City of Portland, Oregon - Bureau of Development Services

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



Facility Permit Program Deferred Submittal Requirements and Application

Applicants will provide:

- | | |
|--|--|
| ☐ A copy of this application | ☐ If the DFS includes exterior elements, plan views and elevations identifying the location(s) as approved by the Architect and Engineer of Record must be submitted. |
| ☐ Three (3) sets of plans | |
| ☐ Two (2) set of calculations | |
| ☐ Two (2) sets of product information | |

Drawings and calculations must be stamped and signed by an Engineer registered in Oregon and approved by the Architect/Engineer of record for the building.

Contractor submittal information:

Contact name BOBBY JONES
Address 732 NE Buffalo Unit B
City Portland State OR Zip Code 97211
Phone (503) 729-9433 E-mail everydaypeopleart@gmail.com
Value of deferred submittal 0 Issued FPP building permit # 19-2073418 RS
Job site address 4022 NE Mallory Ave, Portland, OR 97212
Description/Scope of work:
THIS IS MY DEFERRED SUBMITTAL FOR MY ROOF TRUSSES.

Helpful Information

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

Submit your plans to:
Development Services Center (DSC),
Second Floor, Permitting Services.
For Hours Call 503-823-7310, select option 1

Important Telephone Numbers:
DSC automated information line 503-823-7310
BDS main number 503-823-7300
Facility Permit Program 503-823-5996
City of Portland TTY 503-823-6868

Information is subject to change.



City of Portland
Reviewed for Code Compliance

Date: 06/16/20

Project:
19-207348-DFS-01-RS

MiTek USA, Inc.

250 Klug Circle
Corona, CA 92880
951-245-9525

Re: 410-20_Bobby_Jones

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

Pages or sheets covered by this seal: K7667946 thru K7667947

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



April 23, 2020

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 properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
410-20_BOBBY_JONES	A1GE	GABLE	2	1	

City of Portland

Reviewed for Code Compliance

Date: 06/16/20

Project:
19-207348-DFS-01-RS

Ariel Truss Co., Vancouver, WA - 98685,

8.330 s Mar 23 2020 MITek Industries, Inc. Thu Apr 23 14:12:27 2020 Page 1

ID:7Uc eZDvKIYx5ZGbPvHnlzC 5Ek-qY2oUFPjQ4SRudIXdxcSbjjZE34AoYij7V89RzNpJY

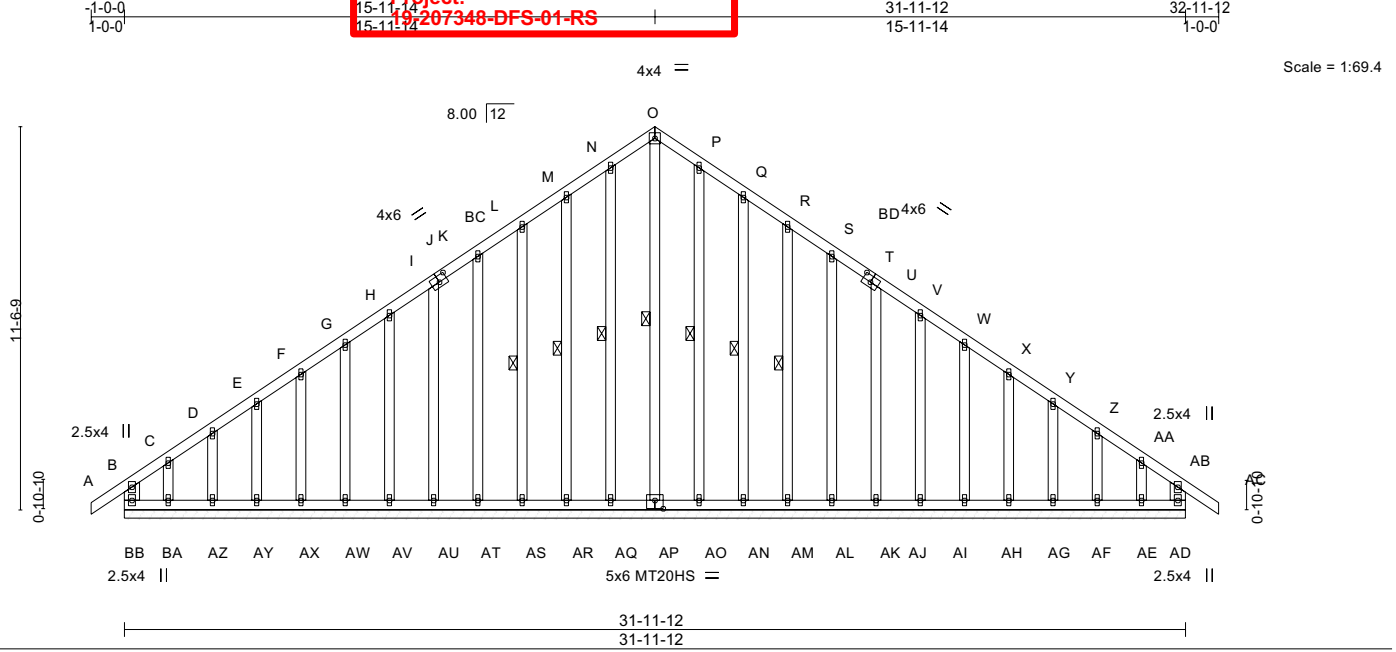


Plate Offsets (X,Y)-- [I:0-2-2,0-0-0], [J:0-3-0,0-2-4], [J:0-0-0,0-1-12], [T:0-3-0,0-2-4], [T:0-0-0,0-1-12], [U:0-2-2,0-0-0], [AP:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	AB	n/r	MT20	220/195
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	AB	n/r	MT20HS	165/146
TCDL 7.0	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	AD	n/a		
BCLL 0.0 *	Code IRC2015/TPI2014		Matrix-R						
BCDL 10.0								Weight: 285 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2X4 DF No.1&Btr G	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2X4 DF No.1&Btr G	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2X6 DF SS G	WEBS 1 Row at midpt
OTHERS 2X4 DF Std G	O-AP, N-AQ, M-AR, L-AS, P-AO, Q-AN, R-AM

REACTIONS. All bearings 31-11-12.
(lb) - Max Horz BB=-300(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) AD, AR, AS, AT, AU, AV, AW, AX, AY, AZ, AN, AM, AL, AK, AJ, AI, AH, AG, AF except BB=-178(LC 12), BA=-140(LC 11), AE=-113(LC 10)
Max Grav All reactions 250 lb or less at joint(s) AD, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, AO, AN, AM, AL, AK, AJ, AI, AH, AG, AF, AE except BB=279(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD L-M=-237/276, M-N=-283/330, N-O=-293/344, O-P=-293/344, P-Q=-283/330, Q-R=-237/276
WEBS O-AP=-278/210

NOTES-

- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=32ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -1-0-0 to 2-2-6, Exterior(2) 2-2-6 to 15-11-14, Corner(3) 15-11-14 to 19-2-4, Exterior(2) 19-2-4 to 32-11-12 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
- 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.
- TCLL: ASCE 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) AD, AR, AS, AT, AU, AV, AW, AX, AY, AZ, AN, AM, AL, AK, AJ, AI, AH, AG, AF except (jt=lb) BB=178, BA=140, AE=113.



RENEWAL DATE: 12-31-2021
April 23, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
410-20_BOBBY_JONES	A2	COMMON	24	1	

City of Portland

Reviewed for Code Compliance

Date: 06/16/20

Project:
19-207348-DFS-01-RS

Ariel Truss Co., Vancouver, WA - 98685,

8.330 s Mar 23 2020 MiTek Industries, Inc. Thu Apr 23 14:12:28 2020 Page 1

ID:7Uc1kZDvKIYx5ZGbPvHnlzO! Ek-lkcBibQMB0aIWntjBe7_?pFh2eE0vA2synFhhuzNpJX

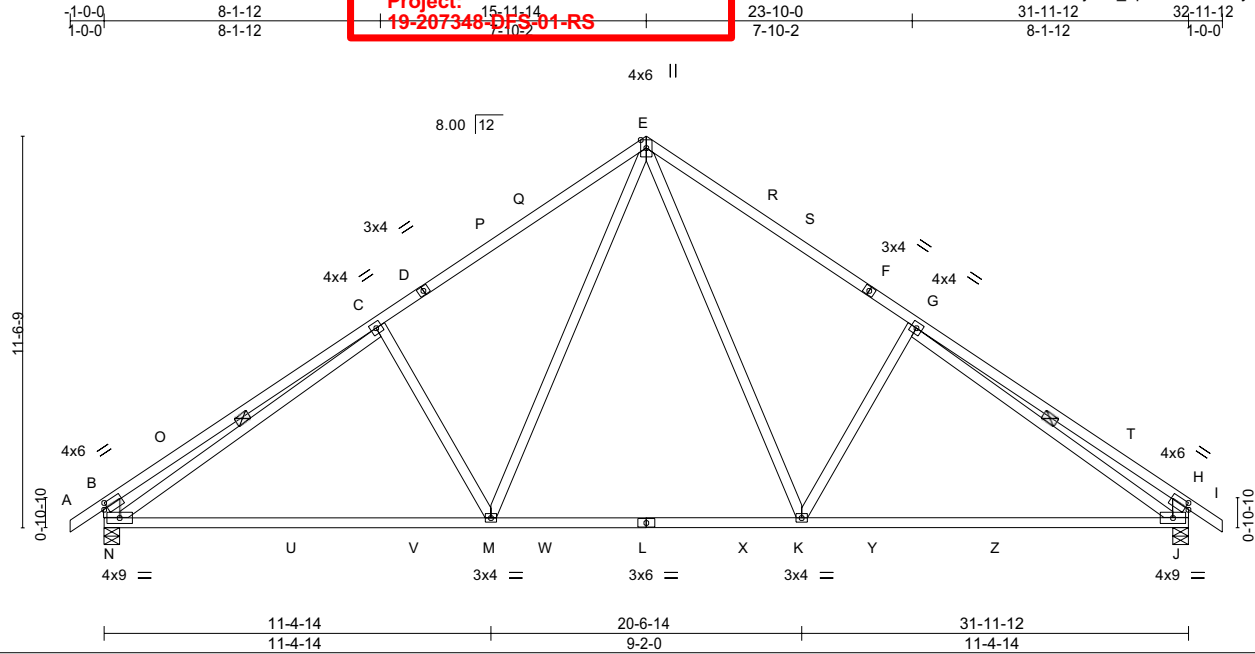


Plate Offsets (X,Y)-- [B:0-1-5,0-2-0], [H:0-1-5,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.92	Vert(LL)	-0.30	M-N >999	240	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.72	Vert(CT)	-0.93	J-K >408	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.46	Horz(CT)	0.07	J n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 177 lb	FT = 20%

LUMBER-

TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
WEBS 2X4 DF Std G*Except*
B-N,H-J: 2X6 DF SS G

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt C-N, G-J

REACTIONS.

(size) N=0-5-8, J=0-5-8
Max Horz N=-300(LC 12)
Max Uplift N=-257(LC 14), J=-257(LC 14)
Max Grav N=1439(LC 22), J=1439(LC 23)

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

TOP CHORD B-C=-924/303, C-E=-1639/452, E-G=-1639/452, G-H=-924/303, B-N=-755/339,
H-J=-754/339
BOT CHORD M-N=-180/1583, K-M=0/1087, J-K=-172/1406
WEBS E-K=-149/790, G-K=-445/302, E-M=-149/790, C-M=-445/302, C-N=-1073/92, G-J=-1073/92

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-0-0 to 2-2-6, Interior(1) 2-2-6 to 15-11-14, Exterior(2) 15-11-14 to 19-2-4, Interior(1) 19-2-4 to 32-11-12 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 7-10; Pf=25.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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, with BCDL = 10.0psf.
- 7) A plate rating reduction of 20% has been applied for the green lumber members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) N=257, J=257.



RENEWAL DATE: 12-31-2021
April 23, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

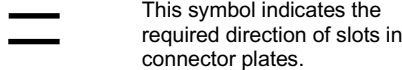
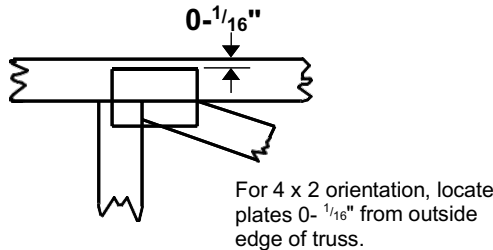
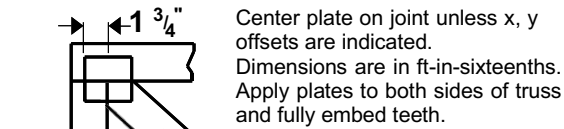
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



250 Klug Circle
Corona, CA 92880

Symbols

PLATE LOCATION AND ORIENTATION



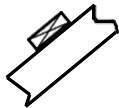
* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

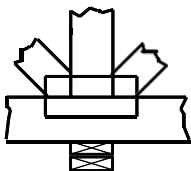
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

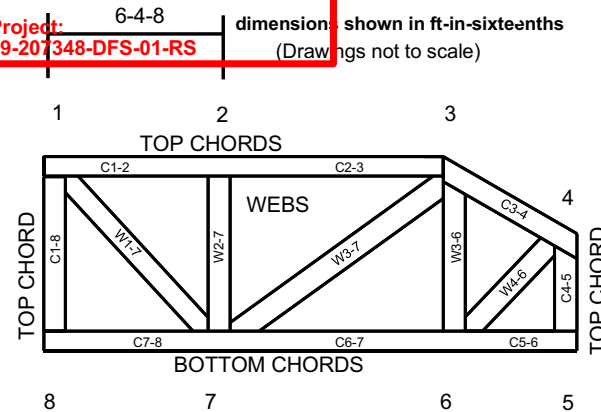
City of Portland

Reviewed for Code Compliance

Date: 06/16/20

Project:
19-207348-DFS-01-RS

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.

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Torl bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. 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.
6. 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.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. 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.