

Re: J1097074
Jeff Strobl

THE APPROVED CONSTRUCTION PLANS,
DOCUMENTS AND ALL ENGINEERING MUST
BE POSTED ON THE JOB AT ALL
INSPECTIONS IN A VISIBLE AND READILY
ACCESSIBLE LOCATION.

FULL SIZED LEDGIBLE COLOR PLANS ARE
REQUIRED TO BE PROVIDED BY THE
PERMITEE ON SITE FOR INSPECTION

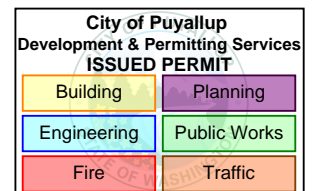
Tri-State Engineering, Inc.
12810 NE 178th Street
Suite 218
Woodinville, WA 98072
425.481.6601

1922 5TH AVE SW
DETACH GARAGE/LOFT

The truss drawing(s) referenced below have been prepared by Tri-State Engineering under my direct supervision based on the parameters provided by The Truss Company (Sumner).

Pages or sheets covered by this seal: I14054061 thru I14054064

My license renewal date for the state of Washington is August 20, 2022.



November 8, 2021

Terry Powell

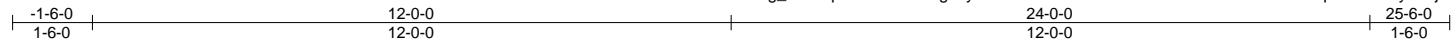
The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI 1.

Job J1097074	Truss A01	Truss Type GABLE	Qty 1	Ply 1	Jeff Strobl	114054061
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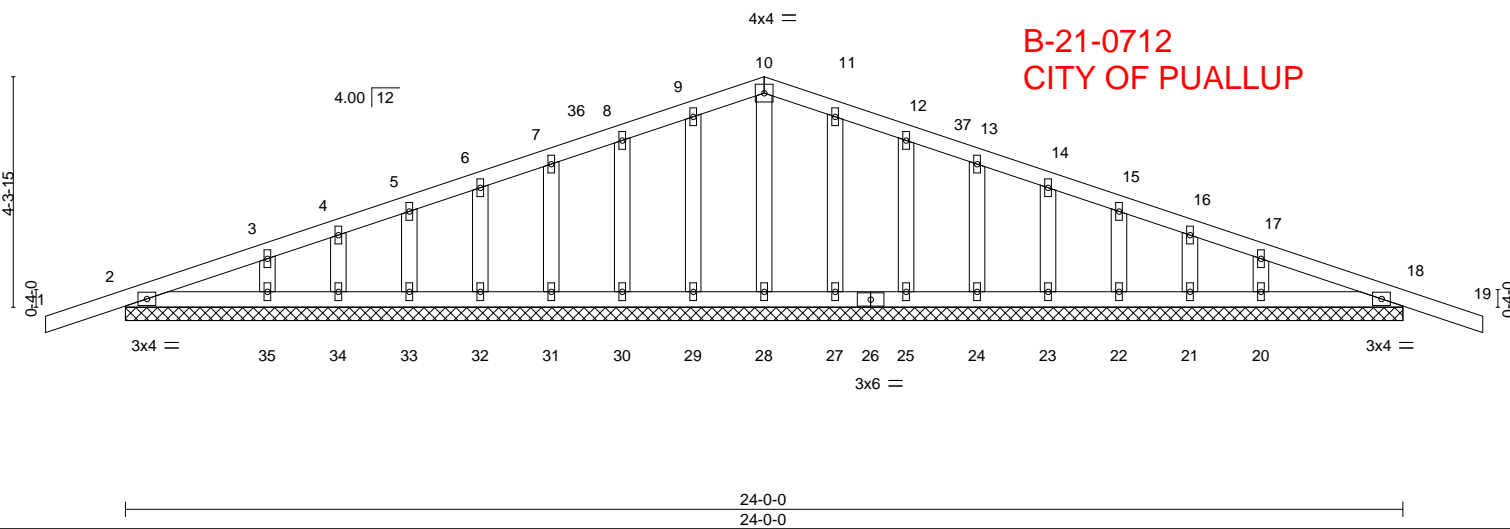
The Truss Company (Sumner), Sumner, WA - 98390,

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Job Reference (optional)
8.520 s Aug 27 2021 MITek Industries, Inc. Fri Nov 5 19:09:52 2021 Page 1



Scale = 1:43.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.14 BC 0.07 WB 0.04 Matrix-SH	in (loc) l/defl L/d Vert(LL) 0.00 19 n/r 120 Vert(CT) 0.00 19 n/r 90 Horz(CT) 0.00 18 n/a n/a	MT20	185/148
TCDL 8.0				Weight: 104 lb	FT = 20%
BCLL 0.0 *					
BCDL 7.0					

LUMBER-	BRACING-
TOP CHORD 2x4 HF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 HF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 DF Stud	

REACTIONS. All bearings 24-0-0.
 (lb) - Max Horz 2=44(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 29, 30, 31, 32, 33, 34, 35, 27, 25, 24, 23, 22, 21, 20
 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 28, 29, 30, 31, 32, 33, 34, 35, 27, 25, 24, 23, 22, 21, 20

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

- NOTES-** (13)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 9-0-0, Corner(3R) 9-0-0 to 15-0-0, Exterior(2N) 15-0-0 to 22-6-0, Corner(3E) 22-6-0 to 25-6-0 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 1-4-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 23.0psf 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.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 29, 30, 31, 32, 33, 34, 35, 27, 25, 24, 23, 22, 21, 20.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 13) All dimensions given in feet-inches-sixteenths (FFI/SS) format.

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

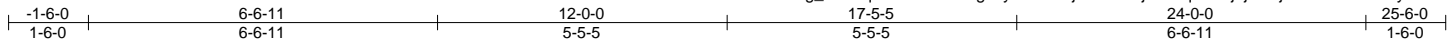


November 8, 2021

Job J1097074	Truss A02	Truss Type COMMON	Qty 6	Ply 1	Jeff Strobl	114054062
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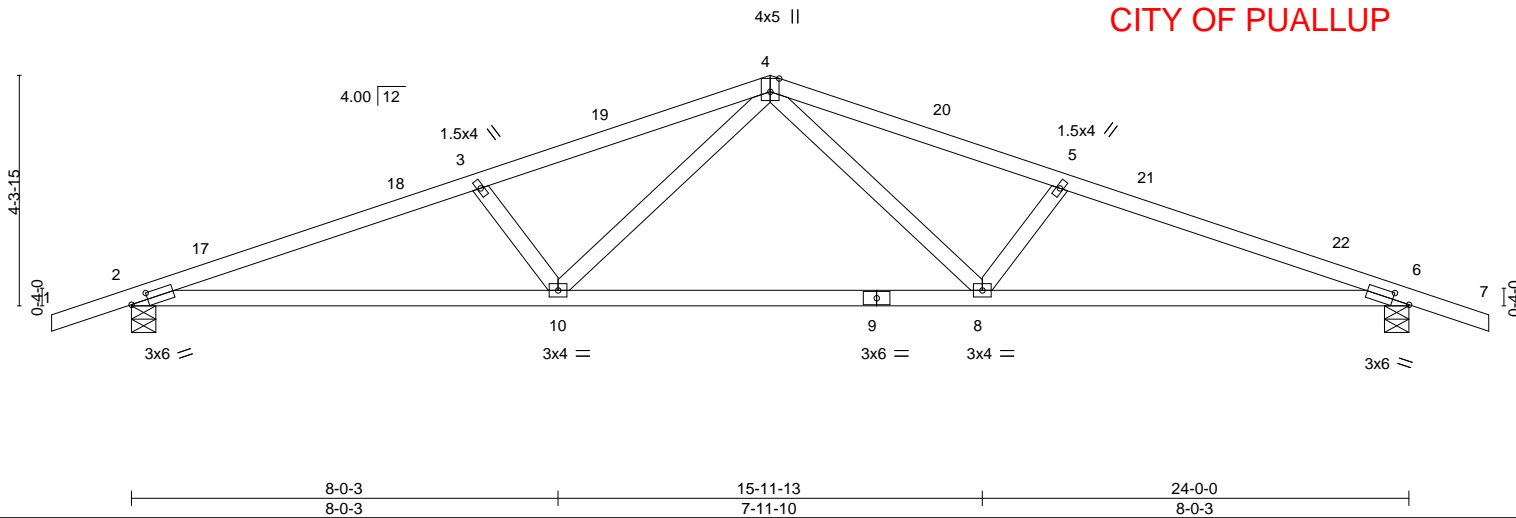
The Truss Company (Sumner), Sumner, WA - 98390,

8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Nov 5 19:09:53 2021 Page 1
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Scale = 1:43.3

B-21-0712
CITY OF PULLUP



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.57 BC 0.65 WB 0.27 Matrix-MSH	in (loc) l/defl L/d Vert(LL) -0.16 10-16 >999 360 Vert(CT) -0.28 8-10 >999 240 Horz(CT) 0.07 6 n/a n/a	MT20	185/148
TCDL 8.0				Weight: 83 lb	FT = 20%
BCLL 0.0 *					
BCDL 7.0					

LUMBER-
 TOP CHORD 2x4 HF No.2
 BOT CHORD 2x4 HF No.2
 WEBS 2x4 DF Stud

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-1-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

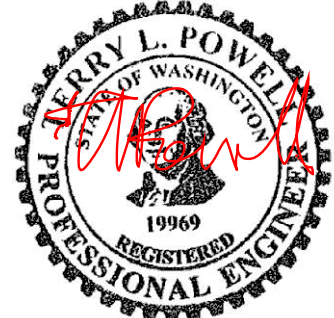
REACTIONS. (size) 6=0-5-8, 2=0-5-8
 Max Horz 2=-44(LC 13)
 Max Uplift 6=-64(LC 9), 2=-64(LC 8)
 Max Grav 6=1092(LC 20), 2=1092(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2402/161, 3-4=-2119/153, 4-5=-2119/153, 5-6=-2402/161
 BOT CHORD 2-10=-98/2246, 8-10=-46/1423, 6-8=-98/2246
 WEBS 3-10=-565/95, 4-10=-19/822, 4-8=-19/822, 5-8=-565/95

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 15-0-0, Interior(1) 15-0-0 to 22-6-0, Exterior(2E) 22-6-0 to 25-6-0 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 23.0psf 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) All dimensions given in feet-inches-sixteenths (FFIISS) format.

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

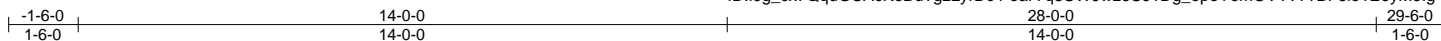


November 8, 2021

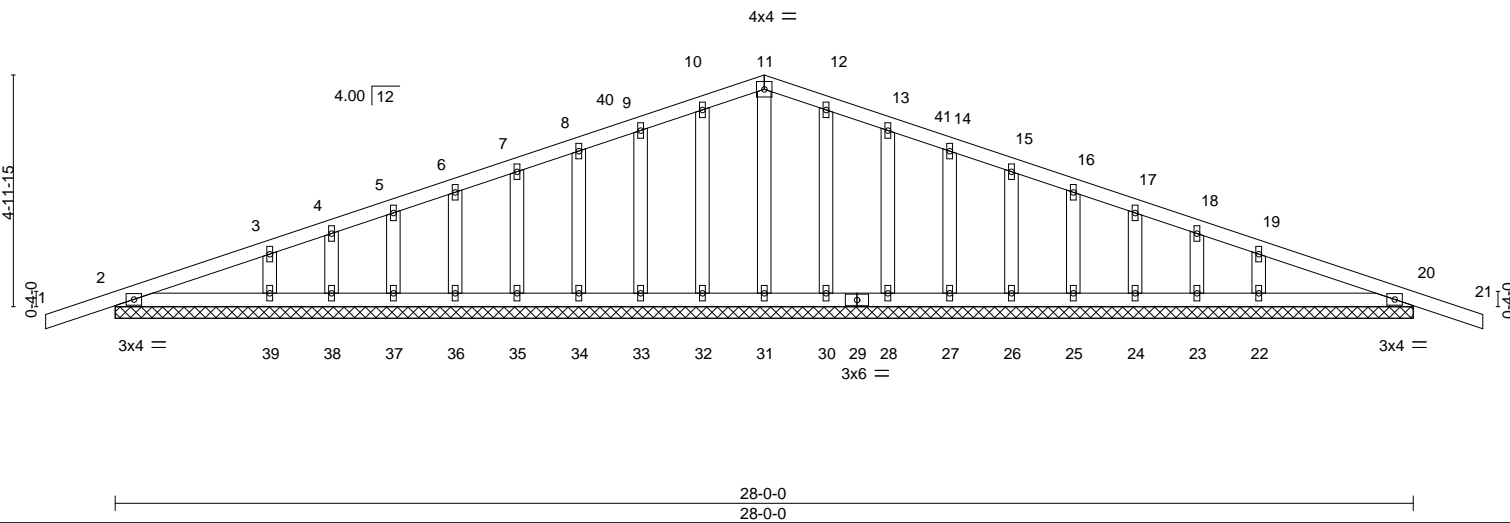
Job J1097074	Truss B01	Truss Type GABLE	Qty 2	Ply 1	Jeff Strobl	114054063
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The Truss Company (Sumner), Sumner, WA - 98390,

8,520 s Aug 27 2021 MiTek Industries, Inc. Fri Nov 5 19:09:55 2021 Page 1
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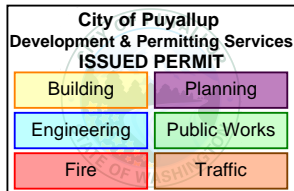
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.14 BC 0.07 WB 0.05 Matrix-SH	in (loc) l/defl L/d Vert(LL) 0.00 21 n/r 120 Vert(CT) 0.00 21 n/r 90 Horz(CT) 0.00 20 n/a n/a	MT20	185/148
TCDL 8.0					
BCLL 0.0 *					
BCDL 7.0				Weight: 130 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 HF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 HF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 DF Stud	

REACTIONS. All bearings 28-0-0.
 (lb) - Max Horz 2=51(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 32, 33, 34, 35, 36, 37, 38, 39, 30, 28, 27, 26, 25, 24, 23, 22
 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 31, 32, 33, 34, 35, 36, 37, 38, 39, 30, 28, 27, 26, 25, 24, 23, 22

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

- NOTES-** (13)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 11-0-0, Corner(3R) 11-0-0 to 17-0-0, Exterior(2N) 17-0-0 to 26-6-0, Corner(3E) 26-6-0 to 29-6-0 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 1-4-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 23.0psf 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.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 32, 33, 34, 35, 36, 37, 38, 39, 30, 28, 27, 26, 25, 24, 23, 22.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 13) All dimensions given in feet-inches-sixteenths (FFI/SS) format.

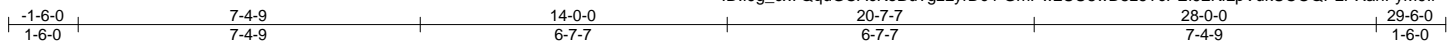


November 8, 2021

Job J1097074	Truss B02	Truss Type COMMON	Qty 13	Ply 1	Jeff Strobl	114054064
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The Truss Company (Sumner), Sumner, WA - 98390,

ID:fJg_cx7QquGCACoBu?gzLyrDc4-GmPw2UU8wD5z6TcPEi92KlPvukUCOQLPXanFyM9lf
8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Nov 5 19:09:56 2021 Page 1



Scale = 1:49.7

**B-21-0712
CITY OF PULLUP**

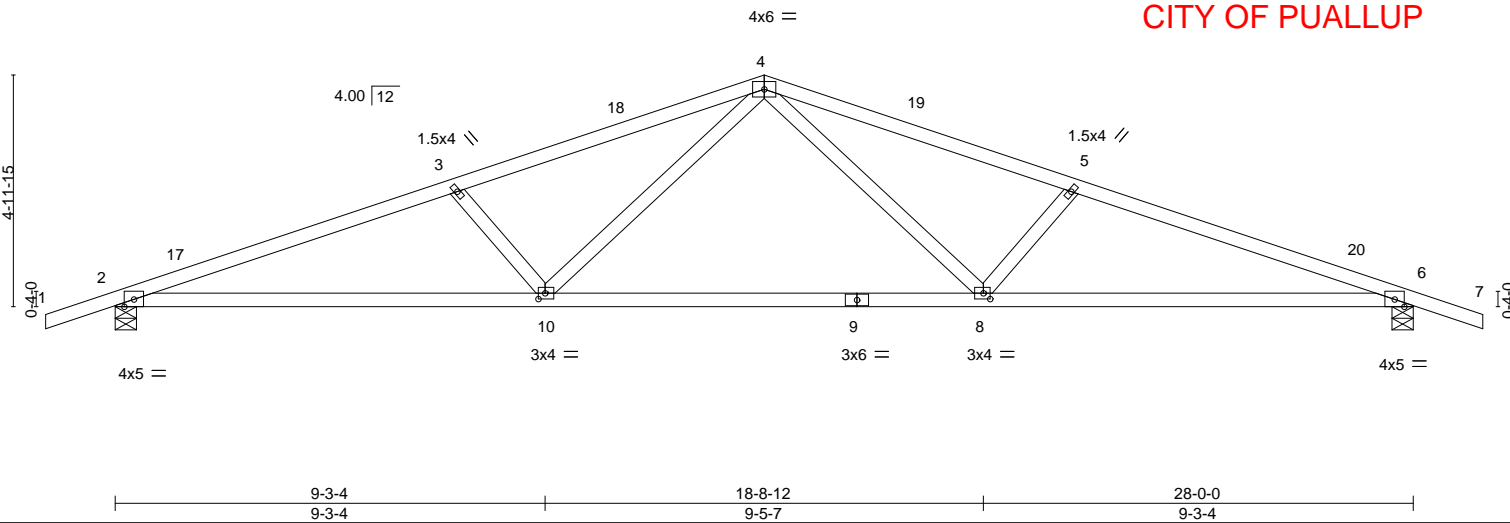


Plate Offsets (X,Y)-- [8:0-1-12,0-1-8], [10:0-1-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.69 BC 0.75 WB 0.30 Matrix-MSH	in (loc) l/defl L/d Vert(LL) -0.19 10-13 >999 360 Vert(CT) -0.36 8-10 >930 240 Horz(CT) 0.10 6 n/a n/a	MT20	185/148
TCDL 8.0				Weight: 103 lb	FT = 20%
BCLL 0.0 *					
BCDL 7.0					

LUMBER-
TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 HF No.2
WEBS 2x4 DF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 6=0-5-8
Max Horz 2=51(LC 12)
Max Uplift 2=-69(LC 8), 6=-69(LC 9)
Max Grav 2=1228(LC 19), 6=1228(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2776/184, 3-4=-2426/169, 4-5=-2426/169, 5-6=-2776/184
BOT CHORD 2-10=-116/2600, 8-10=-53/1669, 6-8=-116/2600
WEBS 4-8=-18/911, 5-8=-647/115, 4-10=-18/911, 3-10=-647/115

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=12ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 17-0-0, Interior(1) 17-0-0 to 26-6-0, Exterior(2E) 26-6-0 to 29-6-0 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 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 23.0psf 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) All dimensions given in feet-inches-sixteenths (FFIISS) format.

**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

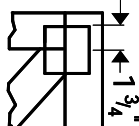
Building	Planning
Engineering	Public Works
Fire	Traffic



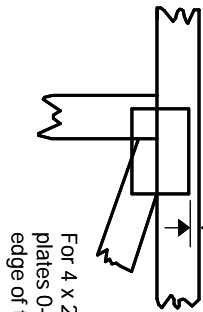
November 8, 2021

Symbols

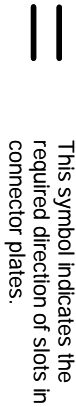
PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



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

PLATE SIZE

4 X 4

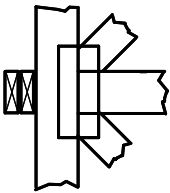
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

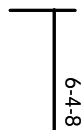


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

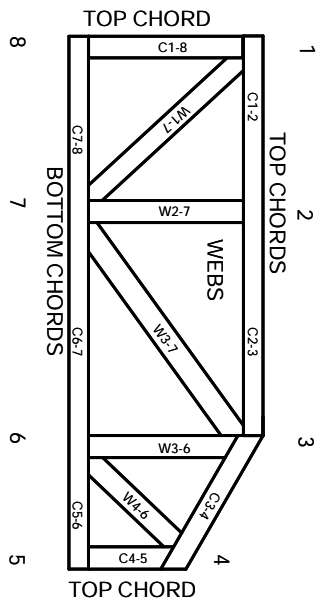
Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate
BCS11: Connected Wood Trusses.

Numbering System



dimensions shown in ft-in-sixteenths (Drawings not to scale)



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

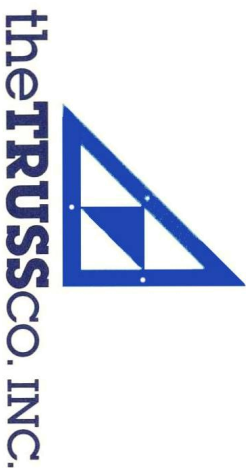
CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 9604B, 9730, 95-43, 96-31, 9667A
NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

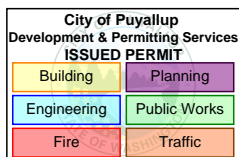
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General Safety Notes

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 BCS11.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator 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/TP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP 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/TP 1 Quality Criteria.



B-21-0712
CITY OF PUALLUP