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

Re: Sarah Fish 4571 Sebastopol Rd
ROOF DESIGN INFO

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

Pages or sheets covered by this seal: K8065897 thru K8065898

My license renewal date for the state of California is September 30, 2020.

July 27,2020

Zhao, Xiaoming

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.

This design prepared from computer input by
Type in your company name here!

LUMBER SPECIFICATIONS
TC: 2x4 DF #2
BC: 2x4 DF #2

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

Unbalanced live loads have been considered for this design.

TRUSS SPAN 23'- 8.0"
LOAD DURATION INCREASE = 1.25
SPACED 24.0" O.C.

LOADING
LL(20.0)+DL(12.0) ON TOP CHORD = 32.0 PSF
DL ON BOTTOM CHORD = 7.0 PSF
TOTAL LOAD = 39.0 PSF

BOTTOM CHORD CHECKED FOR 10PSF LIVE LOAD. TOP AND BOTTOM CHORD LIVE LOADS ACT NON-CONCURRENTLY.

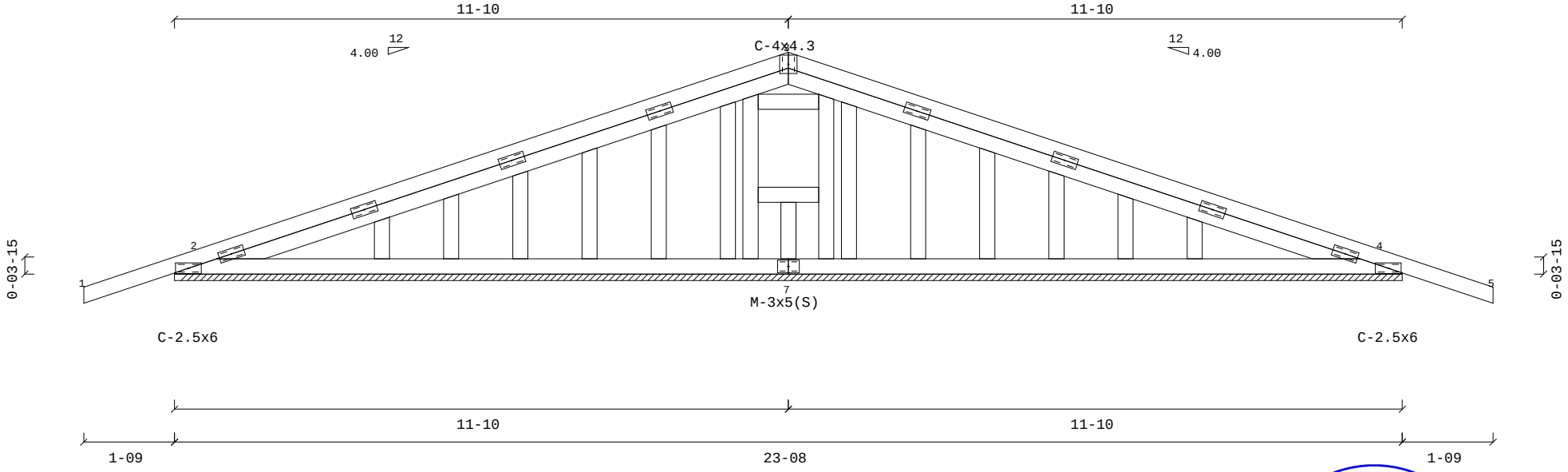
Design conforms to main windforce-resisting system and components and cladding criteria.

Wind: 110 mph, h=15ft, TCDL=7.2,BCDL=4.2, ASCE 7-10, (All Heights), Enclosed, Cat.2, Exp.C, MWFRS(Dir), load duration factor=1.6, Bottom chord at cantilevered end(s) not exposed to wind, Truss designed for wind loads in the plane of the truss only.

Note: Outlooker truss. Upper top chords require same material as structural top chord. Connect with C-2.5x6 min typical 36"oc (uon).

Gable end truss on continuous bearing wall UON.
M-1x2 or equal typical at stud verticals.
Refer to CompuTrus gable end detail for complete specifications.

Max CSI: TC:0.00 BC:0.00 Web:0.00



JOB NAME:

Scale: 0.3387

Truss: 23GAB

DATE: 7/27/2020
SEQ.: K8065897
TRANS ID: LINK

WARNINGS:

1. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
2. 2x4 compression web bracing must be installed where shown +.
3. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer.
4. No load should be applied to any component until after all bracing and fasteners are complete and at no time should any loads greater than design loads be applied to any component.
5. CompuTrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
6. This design is furnished subject to the limitations set forth by TPI/WTCA in BCSI, copies of which will be furnished upon request.

MiTek USA, Inc./CompuTrus Software 7.6.8(1L)-E

GENERAL NOTES, unless otherwise noted:

1. This design is based only upon the parameters shown and is for an individual building component. Applicability of design parameters and proper incorporation of component is the responsibility of the building designer.
2. Design assumes the top and bottom chords to be laterally braced at 2' o.c. and at 10' o.c. respectively unless braced throughout their length by continuous sheathing such as plywood sheathing(TC) and/or drywall(BC).
3. 2x Impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic connector plate design values see ESR-1311, ESR-1988 (MiTek)

July 27,2020

This design prepared from computer input by
Type in your company name here!

LUMBER SPECIFICATIONS
TC: 2x4 DF #2
BC: 2x4 DF #2
WEBS: 2x4 DF STAND

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

OVERHANGS: 21.0" 21.0"

TRUSS SPAN 23'- 8.0"
LOAD DURATION INCREASE = 1.25
SPACED 24.0" O.C.

LOADING
LL(20.0)+DL(12.0) ON TOP CHORD = 32.0 PSF
DL ON BOTTOM CHORD = 7.0 PSF
TOTAL LOAD = 39.0 PSF

BOTTOM CHORD CHECKED FOR 10PSF LIVE LOAD. TOP
AND BOTTOM CHORD LIVE LOADS ACT NON-CONCURRENTLY.

CBC2016/IBC2015 MAX MEMBER FORCES 4WR/GDF/Cq=1.00

1- 2=(0) 35	2- 8=(-400) 1903	8- 3=(0) 211
2- 3=(-2078) 491	8- 9=(-402) 1899	3- 9=(-670) 227
3- 4=(-1414) 380	9-10=(-425) 1899	4- 9=(-99) 587
4- 5=(-1414) 380	10- 6=(-423) 1903	9- 5=(-670) 227
5- 6=(-2078) 491		5-10=(0) 211
6- 7=(0) 35		

BEARING LOCATIONS	MAX VERT REACTIONS	MAX HORZ REACTIONS	BRG SIZE	REQUIRED BRG AREA SQ.IN.	(SPECIES)
0'- 0.0"	-136/ 1035V	-51/ 51H	5.50"	1.66	DF (625)
23'- 8.0"	-136/ 1035V	0/ 0H	5.50"	1.66	DF (625)

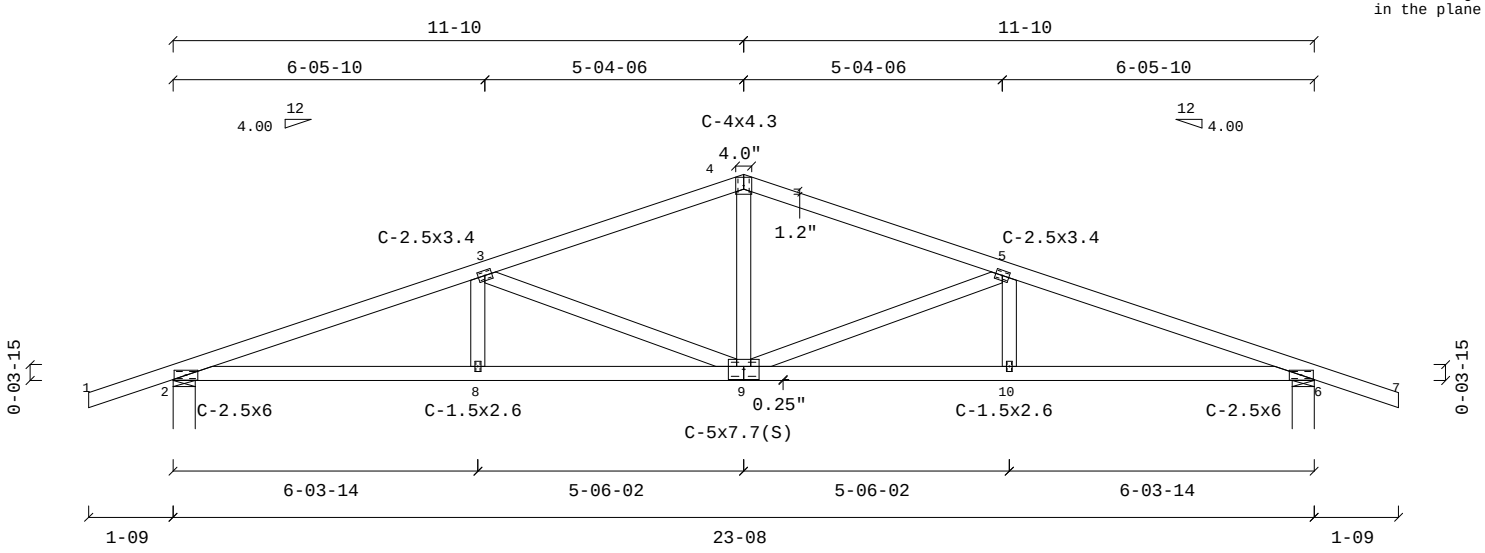
VERTICAL DEFLECTION LIMITS: LL=L/360, TL=L/240
MAX LL DEFL = 0.022" @ -1'- 9.0" Allowed = 0.117"
MAX TL CREEP DEFL = -0.021" @ -1'- 9.0" Allowed = 0.175"
MAX LL DEFL = -0.089" @ 11'- 10.0" Allowed = 0.758"
MAX TL CREEP DEFL = -0.260" @ 11'- 10.0" Allowed = 1.137"
MAX LL DEFL = 0.022" @ 25'- 5.0" Allowed = 0.117"
MAX TL CREEP DEFL = -0.021" @ 25'- 5.0" Allowed = 0.175"

MAX HORIZ. LL DEFL = 0.032" @ 23'- 2.5"
MAX HORIZ. TL DEFL = 0.062" @ 23'- 2.5"

Design conforms to main windforce-resisting
system and components and cladding criteria.

Wind: 110 mph, h=15ft, TCDL=7.2,BCDL=4.2, ASCE 7-10,
(All Heights), Enclosed, Cat.2, Exp.C, MWFRS(Dir),
load duration factor=1.6,
Bottom chord at cantilevered end(s) not exposed to wind,
Truss designed for wind loads
in the plane of the truss only.

Max CSI: TC:0.46 BC:0.44 Web:0.40



JOB NAME:

Scale: 0.2512

Truss: 23CMN

DATE: 7/27/2020
SEQ.: K8065898
TRANS ID: LINK

WARNINGS:

1. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
2. 2x4 compression web bracing must be installed where shown +.
3. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer.
4. No load should be applied to any component until after all bracing and fasteners are complete and at no time should any loads greater than design loads be applied to any component.
5. CompuTrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
6. This design is furnished subject to the limitations set forth by TPI/WTCA in BCSI, copies of which will be furnished upon request.

MiTek USA, Inc./CompuTrus Software 7.6.8(1L)-E

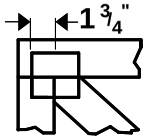
GENERAL NOTES, unless otherwise noted:

1. This design is based only upon the parameters shown and is for an individual building component. Applicability of design parameters and proper incorporation of component is the responsibility of the building designer.
2. Design assumes the top and bottom chords to be laterally braced at 2' o.c. and at 10' o.c. respectively unless braced throughout their length by continuous sheathing such as plywood sheathing(TC) and/or drywall(BC).
3. 2x Impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic connector plate design values see ESR-1311, ESR-1988 (MiTek)

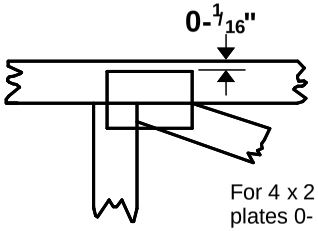
July 27,2020

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.

This symbol indicates the required direction of slots in connector plates.

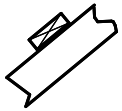
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

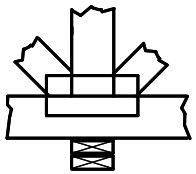
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

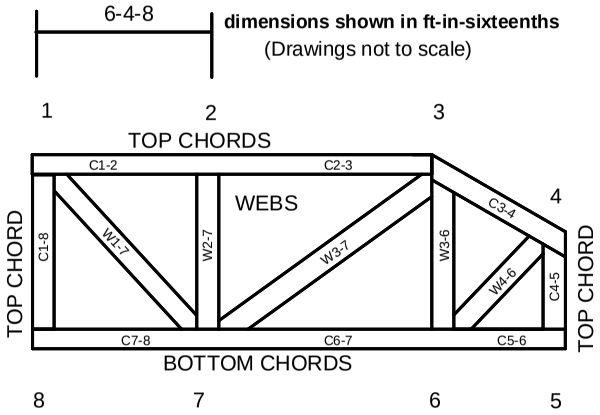


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

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.

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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 Tor I 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.

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