



MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Re: 3008813

C&H/152 Cobey

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

Pages or sheets covered by this seal: I49195018 thru I49195043

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

Missouri COA: Engineering 001193



December 10,2021

Johnson, Andrew

,Engineer

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 C&H/152 Cobey 3008813 **GABLE** A1 Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 18 LEE'S SUMMIT. MISSOUR

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

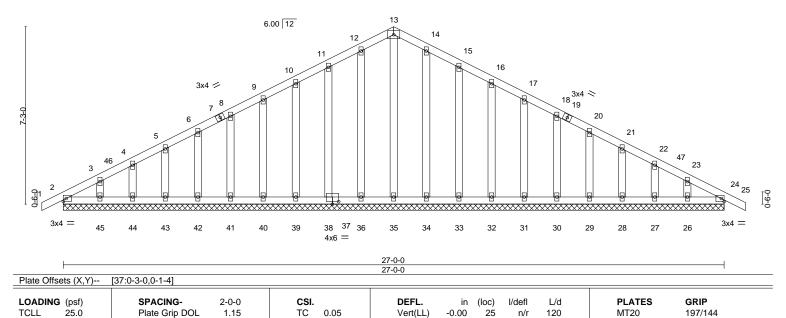
13-6-0

8.430 s Aug 16 2021 MiTek Industries,

nc. Thu i e ID:xKFGJ7evN?7xhJE66FFHnCzvA57-mNGRiGmgqTR0(EgjQ3lkMXErBhgb 27-0-0 13-6-0

Scale = 1:47.1

4x6 =



LUMBER-

OTHERS

TCDL

BCLL

BCDL

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

BRACING-

Vert(CT)

Horz(CT)

-0.00

0.00

25

n/r

n/a

120

n/a

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Weight: 145 lb

FT = 20%

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

REACTIONS. All bearings 27-0-0.

10.0

0.0

10.0

Max Horz 2=-114(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 38, 39, 40, 41, 42, 43, 44, 45, 34, 33, 24, 32, 31, 30, 29, 28, 27, 26

BC

WB

Matrix-S

0.02

0.11

Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 38, 39, 40, 41, 42, 43, 44, 45, 34, 33, 24, 32, 31, 30, 29, 28, 27, 26

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 13-6-0, Corner(3R) 13-6-0 to 16-6-0, Exterior(2N) 16-6-0 to 27-10-8 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
- 3) 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 36, 38, 39, 40, 41, 42, 43, 44, 45, 34, 33, 24, 32, 31, 30, 29, 28, 27, 26.
- 9) 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.



December 10,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

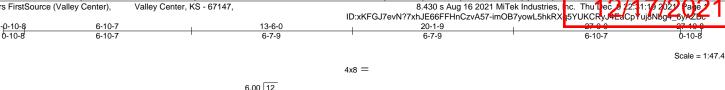
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

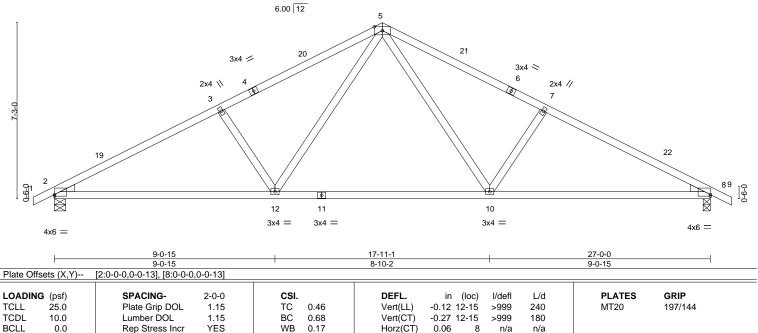
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 A2 2 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries,

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 19 LEE'S SUMMIT. MISSOURI





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-5-8, 8=0-3-8

Max Horz 2=-114(LC 13)

Max Uplift 2=-169(LC 12), 8=-169(LC 13) Max Grav 2=1276(LC 1), 8=1276(LC 1)

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

Code IRC2018/TPI2014

TOP CHORD 2-3=-2089/301, 3-5=-1838/321, 5-7=-1838/321, 7-8=-2089/301

BOT CHORD 2-12=-265/1781, 10-12=-74/1194, 8-10=-187/1781

WEBS 5-10=-135/679, 7-10=-462/220, 5-12=-135/679, 3-12=-462/220

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-6-0, Exterior(2R) 13-6-0 to 16-6-0, Interior(1) 16-6-0 to 27-10-8 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

Matrix-AS

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=169, 8=169.
- 5) 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.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Weight: 97 lb

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

FT = 20%



Qty Job Truss Truss Type Ply C&H/152 Cobey 3008813 A2A Roof Special Job Reference (optional)

11-6-8

2-5-8

13-6-0

1-11-8

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 20 LEE'S SUMMIT. MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

9-1-0

4-9-8

8.430 s Aug 16 2021 MiTek Industries,

nc. Thu1e

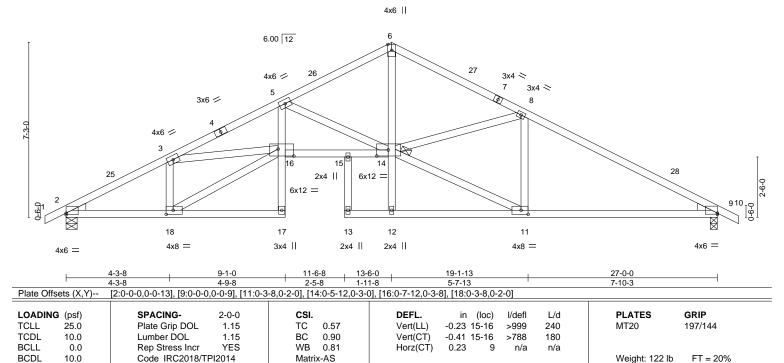
ID:xKFGJ7evN?7xhJE66FFHnCzvA57-AyxZLIpY6Opb3hl I5BrR_9sE 19-1-13 6-10-7

Structural wood sheathing directly applied

Rigid ceiling directly applied.

1 Brace at Jt(s): 14

Scale: 1/4"=1



BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

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

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-5-8, 9=0-3-8

Max Horz 2=114(LC 12) Max Uplift 2=-169(LC 12), 9=-169(LC 13)

Max Grav 2=1276(LC 1), 9=1276(LC 1)

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

2-3=-2180/286, 3-5=-3962/492, 5-6=-2158/300, 6-8=-2128/292, 8-9=-2044/285 BOT CHORD $2-18 = -288/1881, \, 5-16 = -142/1287, \, 15-16 = -409/3511, \, 14-15 = -402/3470, \, 9-11 = -159/1722$ 5-14=-1828/345, 6-14=-149/1522, 8-11=-578/118, 11-14=-167/1825, 3-18=-981/201, WEBS

16-18=-321/2061, 3-16=-120/1601

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-6-0, Exterior(2R) 13-6-0 to 16-6-0, Interior(1) 16-6-0 to 27-10-8 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=169, 9=169,
- 5) 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.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 10,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply C&H/152 Cobev 3008813 A3 2 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries,

13-0-8

6-4-8

Matrix-AS

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 21 LEE'S SUMMIT. MISSOURI

JfvMgWN 6-10-7

Thu I

Weight: 96 lb

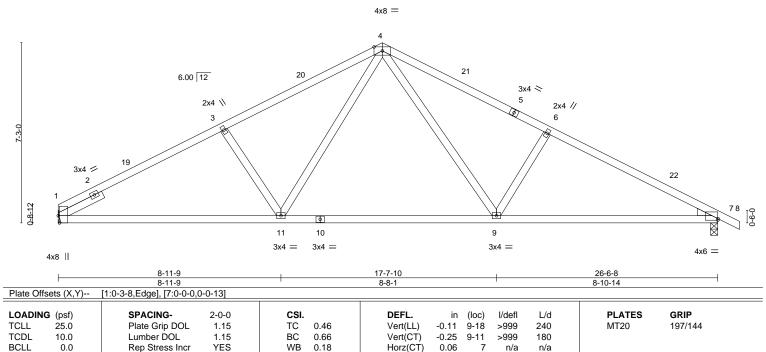
Structural wood sheathing directly applied.

Rigid ceiling directly applied.

FT = 20%

ID:xKFGJ7evN?7xhJE66FFHnCzvA57-e8VxYepAtixShr

Scale = 1:46.4



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEDGE

Right: 2x4 SP No.3

SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS. (size) 1=Mechanical, 7=0-3-8

Max Horz 1=-125(LC 13)

Max Uplift 1=-147(LC 12), 7=-168(LC 13) Max Grav 1=1193(LC 1), 7=1257(LC 1)

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

Code IRC2018/TPI2014

1-3=-1901/296, 3-4=-1704/315, 4-6=-1814/325, 6-7=-2050/300 TOP CHORD

BOT CHORD 1-11=-241/1633, 9-11=-69/1156, 7-9=-188/1746

WEBS 3-11=-403/206, 4-11=-120/590, 4-9=-143/693, 6-9=-458/220

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-0-8, Exterior(2R) 13-0-8 to 16-0-8, Interior(1) 16-0-8 to 27-5-0 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=147, 7=168.
- 6) 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 АЗА Roof Special Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

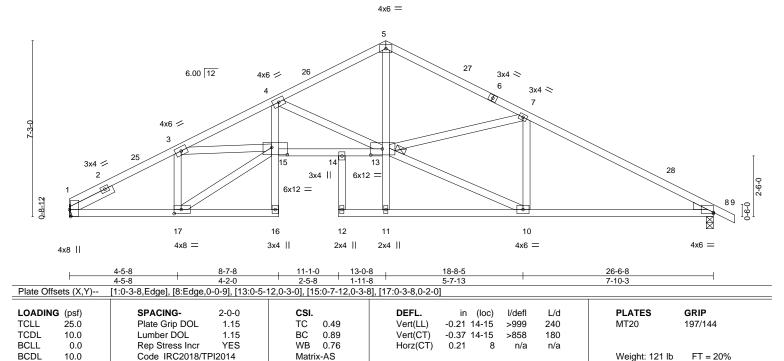
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, ID:xKFGJ7evN?7xhJE66FFHnCzvA57-6L3Klzqoe03J ?ZgDctv3ax 11-1-0 13-0-8 18-8-5 19-8-1 0-11-12

1-11-8

2-5-8

nc. Thu I 6-10-7

Scale = 1:47.5



BRACING-

TOP CHORD

BOT CHORD

JOINTS

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Brace at Jt(s): 13

LUMBER-

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

WEDGE

Right: 2x4 SP No.3

SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS.

(size) 1=Mechanical, 8=0-3-8

Max Horz 1=-125(LC 13)

Max Uplift 1=-147(LC 12), 8=-168(LC 13) Max Grav 1=1193(LC 1), 8=1257(LC 1)

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

1-3=-1919/279, 3-4=-3780/471, 4-5=-2088/299, 5-7=-2065/286, 7-8=-2020/286 TOP CHORD $1 - 17 = -253/1653,\ 4 - 15 = -141/1219,\ 14 - 15 = -390/3369,\ 13 - 14 = -382/3322,\ 8 - 10 = -165/1705$ BOT CHORD **WEBS** $4-13 = -1735/332, \, 5-13 = -138/1442, \, 7-10 = -538/118, \, 10-13 = -172/1787, \, 3-17 = -1024/197, \, 3-17$ 15-17=-292/1884, 3-15=-133/1691

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-0-8, Exterior(2R) 13-0-8 to 16-0-8, Interior(1) 16-0-8 to 27-5-0 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=147, 8=168,
- 6) 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 10,2021

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Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 A3B 2 Roof Special Job Reference (optional)

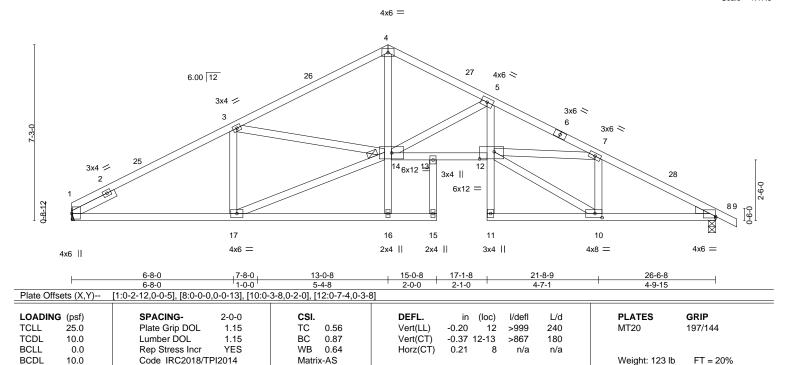
6-4-8

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 23 LEE'S SUMMIT. MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, nc. Thu I ID:xKFGJ7evN?7xhJE66FFHnCzvA57-bXdizJrQPJBAw98snKP8cdUl 15-0-8 17-1-8 21-8-9 13-0-8 4-9-15 2-1-0 0-10-8

2-0-0

Scale = 1:47.5



BRACING-

TOP CHORD

BOT CHORD

JOINTS

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Brace at Jt(s): 14

LUMBER-

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

WEDGE

Right: 2x4 SP No.3

SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS.

(size) 1=Mechanical, 8=0-3-8

6-8-0

Max Horz 1=-125(LC 13)

Max Uplift 1=-147(LC 12), 8=-168(LC 13) Max Grav 1=1193(LC 1), 8=1257(LC 1)

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

1-3=-1918/286, 3-4=-2082/289, 4-5=-2094/296, 5-7=-3653/438, 7-8=-2125/287 TOP CHORD BOT CHORD $1-17 = -232/1645,\ 13-14 = -257/3163,\ 12-13 = -265/3211,\ 5-12 = -91/1205,\ 8-10 = -191/1826$ **WEBS** $5-14 = -1595/235,\ 4-14 = -133/1409,\ 7-10 = -984/153,\ 10-12 = -216/2032,\ 7-12 = -74/1377,$ 3-17=-500/134, 14-17=-242/1695, 3-14=-82/270

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-0-8, Exterior(2R) 13-0-8 to 16-0-8, Interior(1) 16-0-8 to 27-5-0 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=147, 8=168,
- 6) 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 4 A4 Roof Special Job Reference (optional)

13-6-0

5-6-1

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 24 LEE'S SUMMIT. MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, nc. Thu te ID:xKFGJ7evN?7xhJE66FFHnCzvA57-3jB4Afs3AdJ0 /Jj3K1wN8 23-4-5

20-2-12 0-10-8 2-3-8 2-3-0 4-5-12

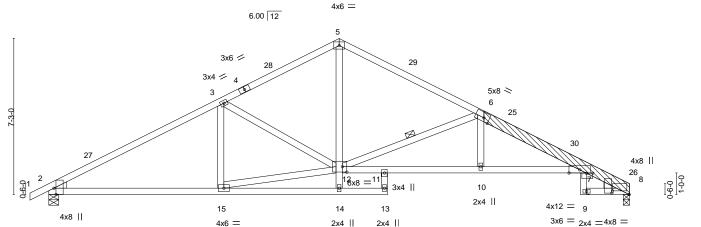
Structural wood sheathing directly applied.

6-12

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:53.6



ı	7-11-15	13-6-0	15-9-0	20-2-12	24-8-8	27-0-0
· ·	7-11-15	5-6-1	2-3-0	4-5-12	4-5-12	2-3-8
Plate Offsets (X,Y)	[2:0-3-8,Edge], [6:0-3-0,Edge], [7:0-3-7,	0-0-1], [8:0-9-3,0-2-0], [8:0	-0-12,0-9-11], [12	:0-2-8,0-3-0]		

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.19 10-21 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.89	Vert(CT) -0.36 10-11 >907 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.20 8 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 135 lb FT = 20%

BRACING-

WFBS

TOP CHORD **BOT CHORD**

LUMBER-TOP CHORD

2x4 SPF No.2 *Except* 6-8: 2x6 SP 2400F 2.0E

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

OTHERS 2x6 SP 2400F 2.0E

LBR SCAB 6-8 2x6 SP 2400F 2.0E one side

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-5-8, 8=0-3-8

Max Horz 2=120(LC 16)

Max Uplift 2=-169(LC 12), 8=-152(LC 13) Max Grav 2=1276(LC 1), 8=1212(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2\text{-}3\text{--}2025/287,\ 3\text{-}5\text{--}1634/277,\ 5\text{-}6\text{--}1687/277,\ 6\text{-}7\text{--}2714/374,\ 7\text{-}8\text{--}485/91}$ **BOT CHORD** 2-15=-234/1719, 11-12=-229/2467, 10-11=-272/2551, 7-10=-274/2540 **WEBS** 5-12=-110/1018, 12-15=-199/1615, 3-12=-483/189, 6-10=0/268, 6-12=-1233/287

NOTES-

- 1) Attached 7-9-8 scab 6 to 8, front face(s) 2x6 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-8 from end at joint 6, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 3-2-3 from end at joint 6, nail 2 row(s) at 4" o.c. for 4-4-5.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-6-0, Exterior(2R) 13-6-0 to 16-6-0, Interior(1) 16-6-0 to 26-11-11 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
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=169, 8=152,
- 7) 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 10,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 5 A5 Roof Special Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 25 LEE'S SUMMIT. MISSOURI

nc. Thu1e 6-10-7

Scale = 1:48.7



6.00 12 3x6 <> 3x4 > 3x4 || 7-3-0 3 5x8 = 3x4 II 1-4-1 13 11 6x12 = 25x8 = 12 10 9 4x6 = 3x6 =4x6 || 4x8 = 2x4 || 13-0-8 19-8-1 26-6-8 3-2-10 1-11-14 7-10-0 6-7-9 6-10-7 [7:0-0-0,0-0-13] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.99 Vert(LL) -0.16 13 >999 240 MT20 197/144 TCDL Lumber DOL Vert(CT) 10.0 1.15 BC 0.80 -0.33 10-12 >960 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.64 Horz(CT) 0.07 n/a n/a

5x8 =

LUMBER-

BCDL

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

10.0

WEDGE

Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and

Weight: 115 lb

FT = 20%

2-0-0 oc purlins (6-0-0 max.): 1-2. Rigid ceiling directly applied.

BOT CHORD

REACTIONS. (size) 14=Mechanical, 7=0-3-8

Max Horz 14=-140(LC 13)

Max Uplift 14=-150(LC 12), 7=-172(LC 13) Max Grav 14=1187(LC 1), 7=1250(LC 1)

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

TOP CHORD 2-3=-2681/367, 3-4=-2788/515, 4-6=-1436/270, 6-7=-2048/290

Code IRC2018/TPI2014

BOT CHORD 13-14=-384/2912, 3-13=-511/247, 10-12=-2/317, 9-10=-177/1741, 7-9=-177/1741 WEBS 2-14=-2889/416, 10-13=-53/865, 4-13=-370/1525, 4-10=-45/445, 6-10=-673/216,

2-13=-530/85

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0.1-12 to 3-2-10, Interior(1) 3-2-10 to 13-0-8, Exterior(2R) 13-0-8 to 16-0-8 , Interior(1) 16-0-8 to 27-5-0 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

Matrix-AS

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=150. 7=172.
- 7) 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 A6 **GABLE** Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 26 LEE'S SUMMIT. MISSOURI

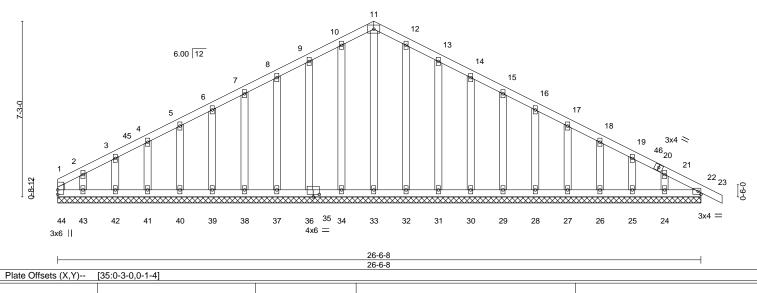
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, ID:xKFGJ7evN?7xhJE66FFHnCzvA57-TltDphuxTYibPmRe)AT4meeYe

nc. Thu te

13-0-8 13-0-8 13-6-0

Scale: 1/4"=1



4x6 =

BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 143 lb FT = 20%	LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.05 BC 0.04 WB 0.11 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 23 n/r 120 Vert(CT) -0.00 23 n/r 120 Horz(CT) 0.00 22 n/a n/a	PLATES GRIP MT20 197/144 Weight: 143 lb FT = 20%
---	--	---	---------------------------------------	--	---

LUMBER-TOP CHORD

2x4 SPF No.2

BOT CHORD 2x4 SPF No 2 2x4 SPF No.2 WERS

OTHERS 2x4 SPF No.2 **BRACING-**

BOT CHORD

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

except end verticals.

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

REACTIONS. All bearings 26-6-8.

Max Horz 44=-119(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 44, 34, 36, 37, 38, 39, 40, 41, 42, 32, 31, 22, 30, 29, 28, 27,

26, 25, 24 except 43=-109(LC 12)

All reactions 250 lb or less at joint(s) 44, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 32, 31, 22, 30, Max Grav 29, 28, 27, 26, 25, 24

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 13-0-8, Corner(3R) 13-0-8 to 16-0-8, Exterior(2N) 16-0-8 to 27-5-0 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
- 3) Truss designed for wind loads in the plane of the truss only. For stude 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 44, 34, 36, 37, 38, 39, 40, 41, 42, 32, 31, 22, 30, 29, 28, 27, 26, 25, 24 except (jt=lb) 43=109.
- 9) 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.





Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 В1 ROOF SPECIAL GIRDER 2 Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

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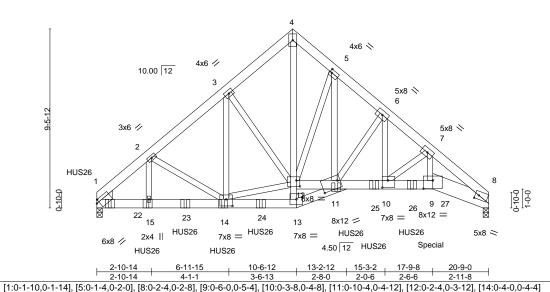
17-9-8 2-10-14 2-10-14 10-4-8 15-3-2 6-11-15 13-2-12 20-9-0 4-1-1 3-4-9 2-10-4 2-0-6 2-6-6

> Scale = 1:61.0 5x8 ||

> > Structural wood sheathing directly applied or 5-0-4 oc purlins.

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

8.430 s Aug 16 2021 MiTek Industries,



I/defI LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.10 10-11 >999 240 MT20 197/144 >999 **TCDL** 10.0 Lumber DOL 1.15 BC 0.53 Vert(CT) -0.20 10-11 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.86 Horz(CT) -0.10 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-MS Weight: 354 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Plate Offsets (X,Y)--

TOP CHORD 2x6 SPF No.2 *Except* 4-8: 2x6 SP 2400F 2.0E **BOT CHORD** 2x6 SP 2400F 2.0E *Except*

9-12: 2x6 SPF 2100F 1.8E, 8-9: 2x10 SP 2400F 2.0E

WEBS 2x4 SPF No.2

Builders FirstSource (Valley Center),

WEDGE

Left: 2x6 SP No.2

REACTIONS. (size) 1=0-3-8, 8=0-3-8

Max Horz 8=203(LC 5)

Max Uplift 1=-262(LC 8), 8=-140(LC 9) Max Grav 1=7207(LC 1), 8=6397(LC 1)

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

TOP CHORD 1-2=-8586/217, 2-3=-7287/14, 3-4=-5689/0, 4-5=-5687/0, 5-6=-7390/0, 6-7=-9443/25,

7-8=-12280/243 **BOT CHORD**

1-15=-127/6411, 14-15=-127/6411, 13-14=0/2044, 11-13=0/2114, 11-12=-220/3524, 10-11=-21/7356, 9-10=-238/8965, 8-9=-303/9692

3-14=-394/2374, 12-13=-328/0, 4-12=0/6672, 5-11=-228/4312, 12-14=-335/3570, 3-12=-1918/467, 5-12=-3179/314, 2-14=-1041/329, 2-15=-263/1403, 6-10=-375/3475,

6-11=-3204/382, 7-9=-260/3336, 7-10=-2054/278

NOTES-

WEBS

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-2-0 oc, 2x10 - 2 rows staggered at 0-8-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

ROLLING PL

OF MISSO

ANDREW

THOMAS

JOHNSON

NUMBER

PE-2017018993

Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 В1 ROOF SPECIAL GIRDER 2 Job Reference (optional)

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, nc. Thu tiec 12:11:28 2022 Pale ID:xKFGJ7evN?7xhJE66FFHnCzvA57-Ph_zENwB?9yJe-b07aVYr3koxceYuEKcg95cxxxyxZb5

NOTES-

- 9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-4 from the left end to 8-8-4 to connect truss(es) to front face of bottom chord.
- 11) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 12-8-4 from the left end to 16-8-4 to connect truss(es) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1167 lb down and 170 lb up at 18-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-70, 4-8=-70, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=-1173(F) 11=-1167(F) 15=-1173(F) 22=-1176(F) 23=-1173(F) 24=-1173(F) 25=-1167(F) 26=-1167(F) 27=-1167(F)

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-58, 4-8=-58, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=-1008(F) 11=-1002(F) 15=-1008(F) 22=-1011(F) 23=-1008(F) 24=-1008(F) 25=-1002(F) 26=-1002(F) 27=-1002(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-20, 4-8=-20, 13-16=-40, 11-13=-40, 9-11=-40, 9-19=-40

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=-756(F) 11=-752(F) 15=-756(F) 22=-762(F) 23=-756(F) 24=-756(F) 25=-752(F) 26=-752(F) 27=-752(F)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-15, 4-8=9, 13-16=-8, 11-13=-8, 9-11=-8, 9-19=-8

Horz: 1-4=3, 4-8=21

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=155(F) 11=158(F) 15=155(F) 22=154(F) 23=155(F) 24=155(F) 25=158(F) 26=158(F) 27=158(F)

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=9, 4-8=-15, 13-16=-8, 11-13=-8, 9-11=-8, 9-19=-8

Horz: 1-4=-21, 4-8=-3

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=155(F) 11=158(F) 15=155(F) 22=154(F) 23=155(F) 24=155(F) 25=158(F) 26=158(F) 27=158(F)

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-33, 4-8=-10, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20

Horz: 1-4=13, 4-8=10

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=167(F) 11=170(F) 15=167(F) 22=164(F) 23=167(F) 24=167(F) 25=170(F) 26=170(F) 27=170(F)

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=-10, 4-8=-33, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20

Horz: 1-4=-10, 4-8=-13

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=167(F) 11=170(F) 15=167(F) 22=164(F) 23=167(F) 24=167(F) 25=170(F) 26=170(F) 27=170(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=25, 4-8=9, 13-16=-8, 11-13=-8, 9-11=-8, 9-19=-8

Horz: 1-4=-37, 4-8=21

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=155(F) 11=158(F) 15=155(F) 22=154(F) 23=155(F) 24=155(F) 25=158(F) 26=158(F) 27=158(F)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=9, 4-8=25, 13-16=-8, 11-13=-8, 9-11=-8, 9-19=-8

Horz: 1-4=-21, 4-8=37

Concentrated Loads (lb) Vert: 12=-1200(F) 14=155(F) 11=158(F) 15=155(F) 22=154(F) 23=155(F) 24=155(F) 25=158(F) 26=158(F) 27=158(F)

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=14, 4-8=4, 13-16=-8, 11-13=-8, 9-11=-8, 9-19=-8

Horz: 1-4=-26, 4-8=16

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=155(F) 11=158(F) 15=155(F) 22=154(F) 23=155(F) 24=155(F) 25=158(F) 26=158(F) 27=158(F)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=4, 4-8=14, 13-16=-8, 11-13=-8, 9-11=-8, 9-19=-8

Horz: 1-4=-16, 4-8=26

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=155(F) 11=158(F) 15=155(F) 22=154(F) 23=155(F) 24=155(F) 25=158(F) 26=158(F) 27=158(F)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60





Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 В1 ROOF SPECIAL GIRDER 2 Job Reference (optional)

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries,

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ID:xKFGJ7evN?7xhJE66FFHnCzvA57-Ph_zENwB?9yJe
LOAD CASE(S) Standard
    Uniform Loads (plf)
            Vert: 1-4=6, 4-8=-10, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20
            Horz: 1-4=-26, 4-8=10
    Concentrated Loads (lb)
            Vert: 12=-1200(F) 14=167(F) 11=170(F) 15=167(F) 22=164(F) 23=167(F) 24=167(F) 25=170(F) 26=170(F) 27=170(F)
13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-4=-10, 4-8=6, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20
            Horz: 1-4=-10, 4-8=26
    Concentrated Loads (lb)
            Vert: 12=-1200(F) 14=167(F) 11=170(F) 15=167(F) 22=164(F) 23=167(F) 24=167(F) 25=170(F) 26=170(F) 27=170(F)
14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
            Vert: 1-4=-20, 4-8=-20, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20
    Concentrated Loads (lb)
            Vert: 12=-1200(F) 14=-511(F) 11=-508(F) 15=-511(F) 22=-514(F) 23=-511(F) 24=-511(F) 25=-508(F) 26=-508(F) 27=-508(F)
15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-4=-67, 4-8=-50, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20
            Horz: 1-4=10, 4-8=8
    Concentrated Loads (lb)
            Vert: 12=-1200(F) 14=63(F) 11=65(F) 15=63(F) 22=59(F) 23=63(F) 24=63(F) 25=65(F) 26=65(F) 27=65(F)
16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-4=-50, 4-8=-67, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20
            Horz: 1-4=-8 4-8=-10
    Concentrated Loads (lb)
            Vert: 12=-1200(F) 14=63(F) 11=65(F) 15=63(F) 22=59(F) 23=63(F) 24=63(F) 25=65(F) 26=65(F) 27=65(F)
17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
            Vert: 1-4=-38, 4-8=-50, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20
            Horz: 1-4=-20, 4-8=8
    Concentrated Loads (lb)
            Vert: 12=-1200(F) 14=63(F) 11=65(F) 15=63(F) 22=59(F) 23=63(F) 24=63(F) 25=65(F) 26=65(F) 27=65(F)
18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-4=-50, 4-8=-38, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20
            Horz: 1-4=-8, 4-8=20
    Concentrated Loads (lb)
            Vert: 12=-1200(F) 14=63(F) 11=65(F) 15=63(F) 22=59(F) 23=63(F) 24=63(F) 25=65(F) 26=65(F) 27=65(F)
19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-4=-17, 4-8=-12, 13-16=-8, 11-13=-8, 9-11=-8, 9-19=-8
            Horz: 1-4=5
    Concentrated Loads (lb)
            Vert: 12=-1200(F) 14=85(F) 11=88(F) 15=85(F) 22=84(F) 23=85(F) 24=85(F) 25=88(F) 26=88(F) 27=88(F)
20) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-4=-12, 4-8=-17, 13-16=-8, 11-13=-8, 9-11=-8, 9-19=-8
            Horz: 4-8=-5
    Concentrated Loads (lb)
            Vert: 12=-1200(F) 14=85(F) 11=88(F) 15=85(F) 22=84(F) 23=85(F) 24=85(F) 25=88(F) 26=88(F) 27=88(F)
21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-4=-70, 4-8=-20, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20
    Concentrated Loads (lb)
            Vert: 12=-1200(F) 14=-1173(F) 11=-1167(F) 15=-1173(F) 22=-1176(F) 23=-1173(F) 24=-1173(F) 25=-1167(F) 26=-1167(F)
            27=-1167(F)
22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-4=-20, 4-8=-70, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20
    Concentrated Loads (lb)
            Vert: 12=-1200(F) 14=-1173(F) 11=-1167(F) 15=-1173(F) 22=-1176(F) 23=-1173(F) 24=-1173(F) 25=-1167(F) 26=-1167(F)
23) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
```

Concentrated Loads (lb)

Uniform Loads (plf)

27 = -1002(F)



Vert: 1-4=-58, 4-8=-20, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20

24) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-4=-20, 4-8=-58, 13-16=-20, 11-13=-20, 9-11=-20, 9-19=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 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 chorembers 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

AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Vert: 12=-1200(F) 14=-1008(F) 11=-1002(F) 15=-1008(F) 22=-1011(F) 23=-1008(F) 24=-1008(F) 25=-1002(F) 26=-1002(F)



Ply C&H/152 Cobey Job Truss Truss Type Qty 3008813 В1 **ROOF SPECIAL GIRDER** 2 Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, nc. Thu Tec 2 22:11:24 2021 Pale
ID:xKFGJ7evN?7xhJE66FFHnCzvA57-Ph_zENwB?9yJe-b07aVYrskozceYuEKcg95cxxyy2B5-Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 27 LEE'S SUMMIT, MISSOURI

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 12=-1200(F) 14=-1008(F) 11=-1002(F) 15=-1008(F) 22=-1011(F) 23=-1008(F) 24=-1008(F) 25=-1002(F) 26=-1002(F) 27=-1002(F)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 B2 **ROOF SPECIAL** 3 Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 28 LEE'S SUMMIT. MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries,

nc. Thu te

ID:xKFGJ7evN?7xhJE66FFHnCzvA57-ttYLRiwpmT4AGEADhI1nOGG 5-4-0 10-4-8 13-2-12 17-9-8 20-9-0 2-10-4 5-0-8 4-6-12

> Scale = 1:58.6 4x8 📏

> > Structural wood sheathing directly applied.

5-12

Rigid ceiling directly applied.

1 Row at midpt

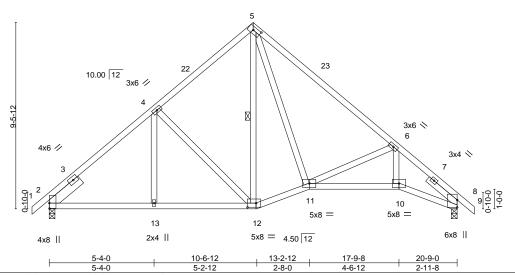


Plate Offsets (X,Y)-- [2:0-3-4,0-0-2], [5:0-4-13,0-2-0], [12:0-5-4,0-2-8]

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL) -0.07 10-11 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.89	Vert(CT) -0.14 10-11 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.09 8 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 104 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

SLIDER Left 2x6 SPF No.2 2-0-0, Right 2x4 SPF No.2 2-0-0

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=-220(LC 10)

Max Uplift 2=-113(LC 12), 8=-113(LC 13) Max Grav 2=995(LC 1), 8=995(LC 1)

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

2-4=-1093/155, 4-5=-813/202, 5-6=-1114/196, 6-8=-1672/185 TOP CHORD

BOT CHORD 2-13=-133/812, 12-13=-133/812, 11-12=0/604, 10-11=-101/1208, 8-10=-100/1276

4-12=-354/193, 6-11=-543/252, 6-10=0/365, 5-11=-32/557 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-4-8, Exterior(2R) 10-4-8 to 13-4-8, Interior(1) 13-4-8 to 21-7-8 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=113. 8=113.
- 6) 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 10,2021





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ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 ВЗ **GABLE** Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 29 LEE'S SUMMIT. MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries,

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4x8 ╲

Scale = 1:58.7

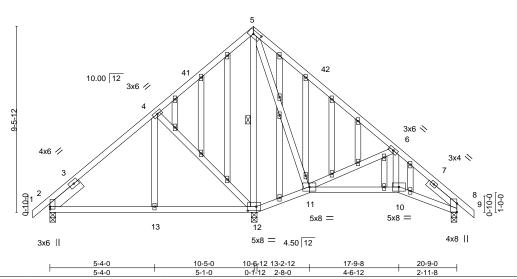


Plate Offsets (X,Y)-- [2:0-1-8,0-0-2], [5:0-4-13,0-2-0], [12:0-5-4,0-2-8]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) 0.03 13-35 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.05 10-11 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.03 8 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 144 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

Structural wood sheathing directly applied.

5-12

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

WFBS

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

OTHERS 2x4 SPF No.2 SLIDER Left 2x6 SPF No.2 2-0-0, Right 2x4 SPF No.2 2-0-0

REACTIONS.

(size) 2=0-3-8, 12=0-3-8, 8=0-3-8

Max Horz 2=-220(LC 10)

Max Uplift 2=-66(LC 12), 12=-121(LC 13), 8=-52(LC 13) Max Grav 2=481(LC 25), 12=1221(LC 1), 8=376(LC 1)

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

TOP CHORD 4-5=-60/296, 5-6=-97/264, 6-8=-386/89

BOT CHORD 2-13=-149/269, 12-13=-149/269, 10-11=-25/354, 8-10=-23/379

WEBS 4-12=-423/199, 5-12=-827/39, 6-11=-496/247

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-4-8, Exterior(2R) 10-4-8 to 13-4-8, Interior(1) 13-4-8 to 21-7-8 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
- 3) 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (|t=|b|) 12=121.
- 9) 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.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 10,2021

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 C1 **GABLE** Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 30 LEE'S SUMMIT. MISSOUR

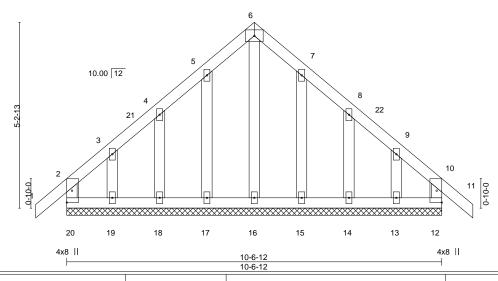
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, ID:xKFGJ7evN?7xhJE66FFHnCzvA57-qGg5sOy4H4KuVX kboj3FThM6vqhq5hl3l

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-0-10-8 0-10-8 10-6-12 0-10-8 5-3-6

> Scale = 1:32.4 4x6 =



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	11	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	11	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R						Weight: 54 lb	FT = 20%

LUMBER-

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

2x4 SPF No 2 WFBS 2x4 SPF No 2 OTHERS

BRACING-

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

except end verticals

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-6-12.

(lb) -Max Horz 20=-142(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-3-6, Corner(3R) 5-3-6 to 8-3-6, Exterior(2N) 8-3-6 to 11-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 18, 19, 15, 14, 13.
- 10) 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.









Job Truss Truss Type Qty Ply C&H/152 Cobev 3008813 D1 **GABLE** Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 31 LEE'S SUMMIT. MISSOURI

Scale = 1:15.3

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:xKFGJ7evN?7xhJE66FFHnCzvA57-ISEU3kzi2OSI7h -0-10-8 0-10-8

nc. Thu te nMQaU0vu2

2x4 || 5 2x4 || 4 4.00 12 2x4 || 0-4-0 6 8_{2x4} || 7_{2x4} || 2x4 || 2x4 =2-0-0 5-11-8 2-0-0 3-11-8 Plate Offsets (X,Y)--[2:0-0-5,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP** 25.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) 0.02 240 MT20 197/144

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

2x4 SPF No 2 WFBS **OTHERS** 2x4 SPF No.2

10.0

0.0

10.0

BRACING-

Vert(CT)

Horz(CT)

TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins,

Weight: 19 lb

FT = 20%

180

n/a

except end verticals.

>999

>999

n/a

7-8

7-8

6

-0.02

0.00

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

8.430 s Aug 16 2021 MiTek Industries,

REACTIONS. (size) 2=2-0-0, 9=0-3-8, 6=Mechanical

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 2=83(LC 9)

Max Uplift 2=-44(LC 8), 9=-56(LC 12), 6=-31(LC 12) Max Grav 2=158(LC 1), 9=269(LC 1), 6=155(LC 1)

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

WEBS 3-8=-205/250

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 5-9-5 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

BC

WB

Matrix-S

0.20

0.04

- 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) Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9, 6.
- 7) 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.



December 10,2021





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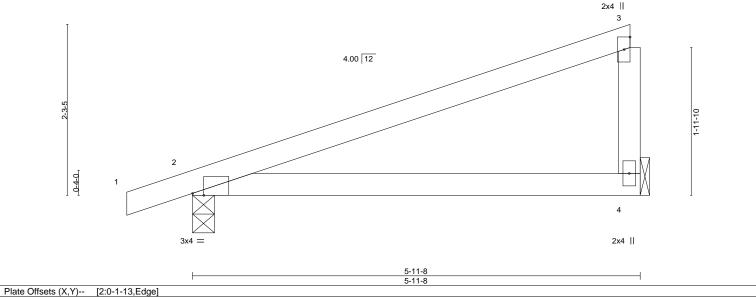
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 D2 5 Monopitch Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 32 LEE'S SUMMIT. MISSOURI

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-0-10-8 0-10-8

Scale = 1:15.3



BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.44 Vert(LL) -0.06 >999 240 TCDL Lumber DOL Vert(CT) 10.0 1.15 BC 0.35 -0.12 4-7 >569 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.00

Matrix-AS

Horz(CT) 0.00 n/a n/a

Rigid ceiling directly applied.

PLATES

MT20

Structural wood sheathing directly applied, except end verticals.

Weight: 17 lb FT = 20%

GRIP

197/144

LUMBER-

REACTIONS.

BCDL

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

10.0

(size) 4=Mechanical, 2=0-3-8

Max Horz 2=84(LC 11)

Max Uplift 4=-52(LC 12), 2=-76(LC 8) Max Grav 4=257(LC 1), 2=327(LC 1)

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

Code IRC2018/TPI2014

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) 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.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 D3 5 Monopitch Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 33 LEE'S SUMMIT. MISSOURI

Scale = 1:10.8

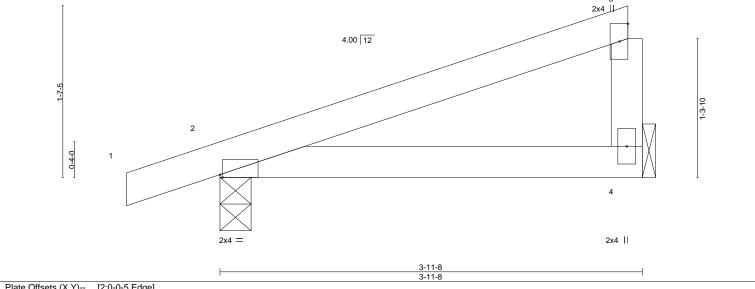
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Structural wood sheathing directly applied or 3-11-8 oc purlins,

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

except end verticals.

-0-10-8 3-11-8 3-11-8 0-10-8 2x4 📙



	0010 (71,1)	[2.0 0 0,Eago]	1		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.01 4-7 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.02 4-7 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP	. ,	Weight: 11 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 2x4 SPF No 2

BOT CHORD 2x4 SPF No.2 WFBS

REACTIONS. (size) 4=Mechanical, 2=0-3-8

Max Horz 2=57(LC 11)

Max Uplift 4=-33(LC 12), 2=-63(LC 8) Max Grav 4=165(LC 1), 2=240(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-9-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) 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.







Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 D4 **GABLE** Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 34 LEE'S SUMMIT. MISSOURI

Scale = 1:10.8

9

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, ID:xKFGJ7evN?7xhJE66FFHnCzvA57-mfosH4zKpiackrU_w85jY6F -0-10-8 3-11-8

1-9-14

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2x4 📙 4.00 12 2 0-4-0 4 2x4 = 2x4 ||

SPACING-DEFL. GRIP LOADING (psf) 2-0-0 CSI. (loc) I/defl L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.23 Vert(LL) -0.00 n/r 120 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) 0.00 n/r 120 WB 0.00 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 11 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins,

except end verticals

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

REACTIONS. (size) 4=3-11-8, 2=3-11-8

Max Horz 2=57(LC 9)

Max Uplift 4=-33(LC 12), 2=-64(LC 8) Max Grav 4=162(LC 1), 2=240(LC 1)

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

0-10-8

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 3-9-5 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) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 7) 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.



December 10,2021



Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 D5 Monopitch Structural Gable Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 35 LEE'S SUMMIT. MISSOUR

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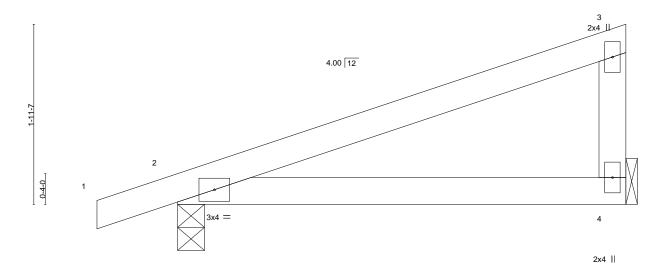
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

0-10-8

8.430 s Aug 16 2021 MiTek Industries, ID:xKFGJ7evN?7xhJE66FFHnCzvA57-ErLEUQ_ya?iTM?

4-10-6

Scale = 1:12.5



4-10-6 4-10-6

LOADIN	G (pst)	SPACING-	2-0-0	CSI.		DEFL.	ın	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.03	4-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 2=0-3-8

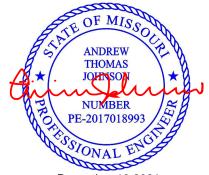
Max Horz 2=69(LC 11)

Max Uplift 4=-42(LC 12), 2=-69(LC 8) Max Grav 4=207(LC 1), 2=279(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-8-10 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) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 7) 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



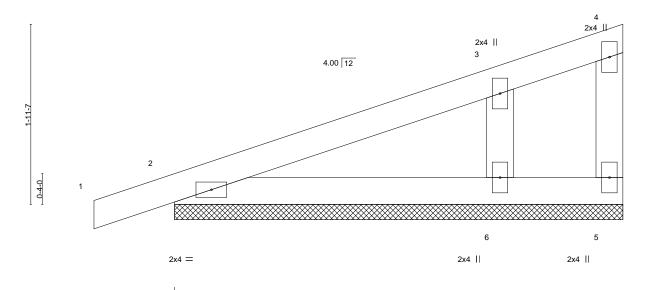


Job Truss Truss Type Qty Ply C&H/152 Cobev 3008813 D6 Monopitch Supported Gable Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 36 LEE'S SUMMIT. MISSOURI

Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, ID:xKFGJ7evN?7xhJE66FFHnCzvA57-i1vcim?aLJqK_9 M1Y8BdXV

-0-10-8 0-10-8 4-10-6 Thu 1 e

Scale = 1:12.5



SPACING-CSI. DEFL. GRIP LOADING (psf) 2-0-0 (loc) I/defl I/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) -0.00 n/r 120 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.08 Vert(CT) 0.00 n/r 120 WB 0.06 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 15 lb FT = 20%

> **BRACING-**TOP CHORD

BOT CHORD

LUMBER-

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

Builders FirstSource (Valley Center),

2x4 SPF No 2 WFBS **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 5=4-10-6, 2=4-10-6, 6=4-10-6

Max Horz 2=69(LC 11)

Max Uplift 5=-29(LC 1), 2=-53(LC 8), 6=-70(LC 12) Max Grav 5=10(LC 12), 2=200(LC 1), 6=314(LC 1)

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

WEBS 3-6=-240/318

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 4-8-10 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
- 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) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 7) 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.



Structural wood sheathing directly applied or 4-10-6 oc purlins,

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

except end verticals





Job Truss Truss Type Qty Ply C&H/152 Cobev 3008813 E1 Common Supported Gable Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 37 LEE'S SUMMIT. MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

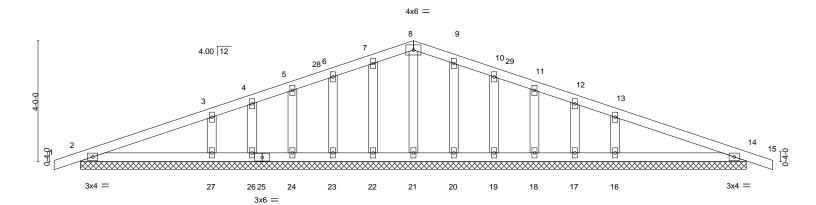
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11-0-0

Scale = 1:38.1



			22-0-0					
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 0.21	Vert(LL)	0.01 15	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT)	0.01 15	n/r	120		
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.00 14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	, ,				Weight: 82 lb	FT = 20%

22-0-0

LUMBER-

0-10-8 0-10-8

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

BRACING-

TOP CHORD BOT CHORD

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

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

REACTIONS. All bearings 22-0-0.

Max Horz 2=63(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 24, 26, 27, 20, 19, 18, 17, 16, 14

All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 24, 26, 20, 19, 18, 17, 14 except 27=417(LC 25), 16=417(LC 26)

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

WEBS 3-27=-303/147, 13-16=-303/147

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 22-10-8 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
- 3) 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 23, 24, 26,
- 9) 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.



December 10,2021



Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 E2 4 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries,

11-0-0

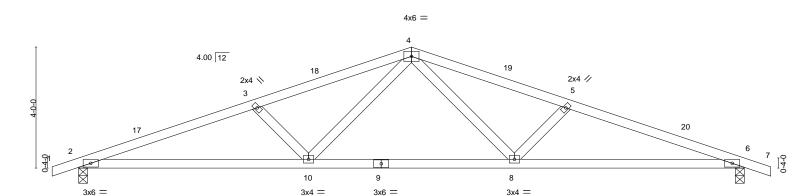
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 38 LEE'S SUMMIT. MISSOURI

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Scale = 1:38.1

3x6 =



	7-7-3 7-7-3	14-4-13 6-9-10	22-0-0 7-7-3	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. DEFL. in (lor TC 0.38 Vert(LL) -0.12 1 BC 0.69 Vert(CT) -0.25 10-1 WB 0.16 Horz(CT) 0.06 Matrix-AS Horz(CT) 0.06	, 0 >999 240 MT20 197/144	%

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

2x4 SPF No.2 WFBS

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=63(LC 12)

Max Uplift 2=-176(LC 8), 6=-176(LC 9) Max Grav 2=1051(LC 1), 6=1051(LC 1)

5-10-13

5-10-13

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

TOP CHORD 2-3=-2359/458, 3-4=-2082/411, 4-5=-2082/411, 5-6=-2359/458 **BOT CHORD** 2-10=-380/2208. 8-10=-213/1483. 6-8=-381/2208

WEBS 4-8=-96/659, 5-8=-448/170, 4-10=-95/659, 3-10=-448/169

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-10-8 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=176, 6=176,
- 5) 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.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





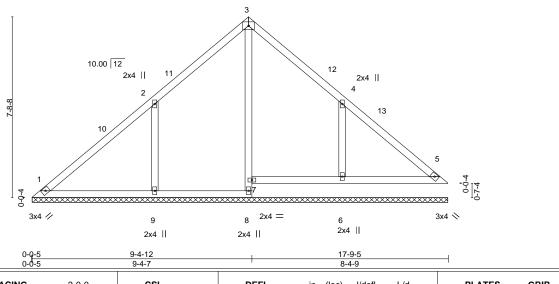
Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 V1 Valley Job Reference (optional) Builders FirstSource (Valley Center),

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 39 LEE'S SUMMIT. MISSOURI

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Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, ID:xKFGJ7evN?7xhJE66FFHnCzvA57-7cblKn1TeECu cMxjhhuFA8 17-9-5

> Scale = 1:49.1 4x6 =



LOADING (p	ST)	SPACING-	2-0-0	CSI.		DEFL.	ın	(IOC)	I/defi	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL 0	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 62 lb	FT = 20%
	I											

LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 17-8-11.

Max Horz 1=171(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-227(LC 12), 6=-198(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8 except 7=260(LC 22), 9=508(LC 19), 6=460(LC 20)

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

WEBS 2-9=-390/258, 4-6=-354/236

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: ASCE \ 7-16; \ Vult=115 mph \ (3-second \ gust) \ \ Vasd=91 mph; \ TCDL=6.0 psf; \ BCDL=4.2 psf; \ h=15 ft; \ Cat. \ II; \ Exp. \ C; \ Enclosed; \ Cat. \ II; \ Exp. \ C; \ Enclosed; \ Exp. \ Cat. \ II; \ Exp. \ C; \ Enclosed; \ Exp. \ Cat. \ Exp. \ Exp. \ Cat. \ Exp. \ Exp.$ MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 9-3-0, Exterior(2R) 9-3-0 to 12-3-0, Interior(1) 12-3-0 to 17-4-8 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=227, 6=198,
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 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.







Job Truss Truss Type Qty Ply C&H/152 Cobev 3008813 V2 Valley Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 40 LEE'S SUMMIT. MISSOURI

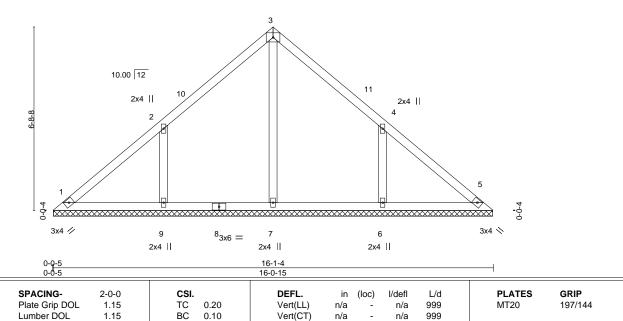
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, ID:xKFGJ7evN?7xhJE66FFHnCzvA57-7cblKn1TeECurdMxjhhuFA81Fe9WEy

nc. Thu1e

8-0-10 8-0-10 8-0-10

> Scale = 1:42.1 4x6 =



LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

25.0

10.0

0.0

10.0

BRACING-

Horz(CT)

TOP CHORD BOT CHORD

0.00

5

n/a

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

Weight: 54 lb

FT = 20%

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

n/a

REACTIONS. All bearings 16-0-10.

Max Horz 1=149(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-194(LC 12), 6=-193(LC 13)

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=255(LC 1), 9=426(LC 19), 6=426(LC 20)

WB

Matrix-S

0.13

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

WEBS 2-9=-333/222, 4-6=-333/222

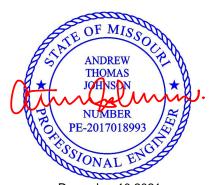
NOTES-

1) Unbalanced roof live loads have been considered for this design.

Rep Stress Incr

Code IRC2018/TPI2014

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 8-0-10, Exterior(2R) 8-0-10 to 11-0-10, Interior(1) 11-0-10 to 15-8-6 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=194. 6=193.
- 6) 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.







Job Truss Truss Type Qty Ply C&H/152 Cobey 3008813 V3 Valley Job Reference (optional)

6-10-3

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 41 LEE'S SUMMIT. MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

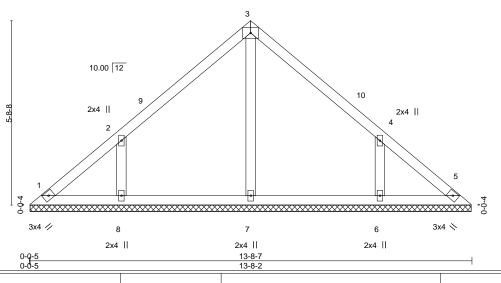
8.430 s Aug 16 2021 MiTek Industries, ID:xKFGJ7evN?7xhJE66FFHnCzvA57-bo97X725PYKITmx8GDC7oNhkR2vmzP1EC

4x6 =

13-8-7 6-10-3

Scale = 1:35.7

nc. Thu te



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 0.17	Vert(LL)	n/a -	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	n/a -	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.10	Horz(CT)	0.00 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 45 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD

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

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

REACTIONS. All bearings 13-7-13.

Max Horz 1=-126(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-168(LC 12), 6=-168(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=273(LC 1), 8=364(LC 19), 6=364(LC 20)

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

WEBS 2-8=-292/197, 4-6=-292/196

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-10-3, Exterior(2R) 6-10-3 to 9-10-3 , Interior(1) 9-10-3 to 13-3-9 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=168, 6=168,
- 6) 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.







Job Truss Truss Type Qty Ply C&H/152 Cobev 3008813 V4 **GABLE** Job Reference (optional) RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 42 LEE'S SUMMIT. MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, ID:xKFGJ7evN?7xhJE66FFHnCzvA57-3?jVIT3jArTc4wV

11-3-10 5-7-13

Scale = 1:29.4

nc. Thu te

/Kq6jMKbDv

3 10.00 12 2x4 || 4 2x4 || 5 8 7 6 3x4 // 3x4 💉 2x4 || 2x4 || 2x4 || 11-3-10

4x6 =

LOADIN	G (psf)	SPACING- 2-0-	0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5	ΓC 0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5 I	3C 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr YE	s \	VB 0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 37 lb	FT = 20%

11-3-10

LUMBER-

OTHERS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 **BRACING-**

TOP CHORD BOT CHORD

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

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

REACTIONS. All bearings 11-3-10.

Max Horz 1=103(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-133(LC 12), 6=-133(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=292(LC 19), 6=291(LC 20)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-7-13, Exterior(2R) 5-7-13 to 8-7-13 , Interior(1) 8-7-13 to 10-10-13 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=133, 6=133.
- 6) 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.







RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW Job Truss Truss Type Qty Ply C&H/152 Cobey DEVELOPMENT SERVICES 43 3008813 V5 **GABLE** LEE'S SUMMIT. MISSOURI Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, nc. Thu te ID:xKFGJ7evN?7xhJE66FFHnCzvA57-XBHtyp4Lx9bT 45WOpEpto 5-3-10 8-10-13 1-8-6 Scale = 1:19.2 3x6 = 3x6 = 2x4 || 3 10.00 12 4-0-0 2x4 || 2x4 📏 2x4 / 8-10-13 8-10-13 Plate Offsets (X,Y)-- [2:0-3-0,0-2-1], [4:0-3-0,0-2-1]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 24 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SPF No 2 **OTHERS**

(size) 1=8-10-13, 5=8-10-13, 6=8-10-13

Max Horz 1=61(LC 9)

Max Uplift 1=-55(LC 12), 5=-60(LC 13)

Max Grav 1=255(LC 1), 5=255(LC 1), 6=226(LC 3)

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

TOP CHORD 1-2=-263/134, 4-5=-263/143

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

2-0-0 oc purlins (6-0-0 max.): 2-4.

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

December 10,2021





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 2/17/2 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

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

connector plates.

This symbol indicates the required direction of slots in

edge of truss.

PLATE SIZE

4 × 4

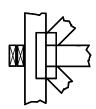
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

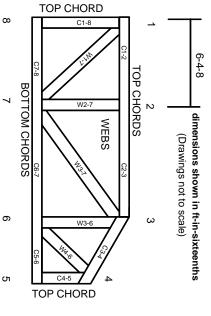
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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

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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- 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.