

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 21104397 WAG-5

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I48568466 thru I48568490

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

North Carolina COA: C-0844



October 29,2021

Sevier, Scott

**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	WAG-5	
21104397	A	COMMON	3	1	148568466	
					Job Reference (optional)	
The Building Center, G	Sastonia, NC - 28052,		8	.430 s Aug	16 2021 MiTek Industries, Inc. Thu Oct 28 12:47:45 2021 Page 1	_
=		וחייחם	uktidtomN	*MIN/\JODI	ozyEASp 4b Idob6AgobCdp24ZTOwrTivyMpfoEDZADDDWoyOtoy	

25-3-1

6-3-1

19-0-0

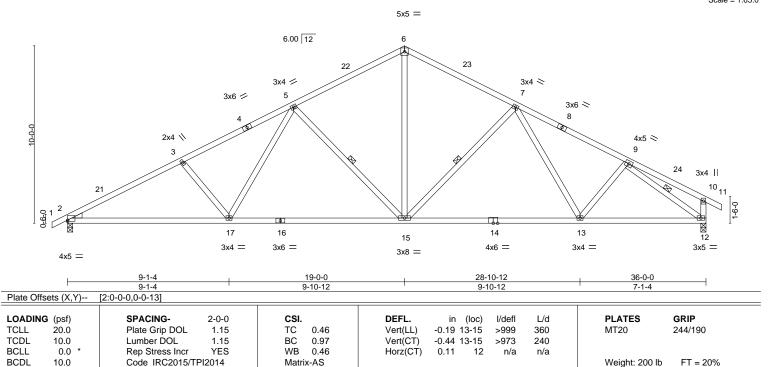
6-3-1

Scale = 1:65.0

36-10<sub>-</sub>8 0-10-8

36-0-0

4-5-14



LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No 2 2x4 SP No.3 WFBS

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD** Rigid ceiling directly applied. WFBS

Structural wood sheathing directly applied, except end verticals.

31-6-2

6-3-1

1 Row at midpt 5-15, 7-15, 9-12

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

Max Horz 2=154(LC 10)

6-5-14 6-5-14

12-8-15

6-3-1

Max Uplift 2=-151(LC 10), 12=-139(LC 11) Max Grav 2=1486(LC 1), 12=1496(LC 1)

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

TOP CHORD  $2-3=-2604/259,\ 3-5=-2372/261,\ 5-6=-1601/254,\ 6-7=-1601/254,\ 7-9=-1963/229$ BOT CHORD  $2\text{-}17\text{=-}309/2250,\ 15\text{-}17\text{=-}186/1811,\ 13\text{-}15\text{=-}83/1647,\ 12\text{-}13\text{=-}113/1605}$ WEBS 3-17=-328/166, 5-17=-41/530, 5-15=-680/210, 6-15=-81/1003, 7-15=-475/191,

9-12=-1918/153

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2) 16-0-0 to 22-0-0, Interior(1) 22-0-0 to 33-10-8, Exterior(2) 33-10-8 to 36-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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.



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

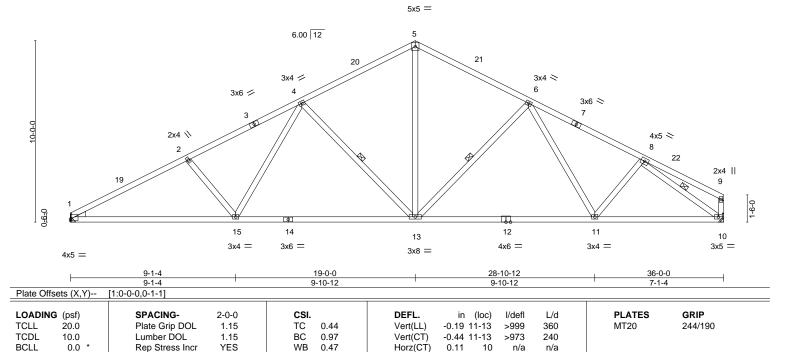
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply WAG-5 148568467 21104397 COMMON 6 A1 Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:47:46 2021 Page 1

ID:uDPvKtjdtsmNrMKV28DLczy5ASp-Yot?416obwp3FxaG6Bx9OgE8zl7uLhcjOt8y2lyOtex 6-5-14 6-5-14 12-8-15 19-0-0 31-6-2 6-3-1 6-3-1 6-3-1 4-5-14

Scale: 3/16"=1"



LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No 2 WFBS 2x4 SP No.3

WEDGE

10.0

Left: 2x4 SP No.3

BRACING-

WFBS

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

1 Row at midpt 4-13, 6-13, 8-10

REACTIONS. (size) 1=Mechanical, 10=Mechanical

Max Horz 1=149(LC 10)

Max Uplift 1=-136(LC 10), 10=-122(LC 11) Max Grav 1=1434(LC 1), 10=1434(LC 1)

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

Code IRC2015/TPI2014

TOP CHORD  $1-2 = -2612/271, \ 2-4 = -2379/273, \ 4-5 = -1604/259, \ 5-6 = -1604/259, \ 6-8 = -1971/239$ BOT CHORD 1-15=-318/2258, 13-15=-193/1815, 11-13=-111/1651, 10-11=-146/1616 WEBS 2-15=-331/167, 4-15=-42/532, 4-13=-682/211, 5-13=-84/1005, 6-13=-477/190,

8-10=-1930/176

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-0-0, Exterior(2) 16-0-0 to 22-0-0, Interior(1) 22-0-0 to 32-10-4, Exterior(2) 32-10-4 to 35-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

Matrix-AS

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 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) 1=136, 10=122,
- 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.



Weight: 197 lb

FT = 20%

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



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl L/d	PLATES	GRIP
-				36-0-0 36-0-0					<u> </u>
3x5 = 59	58 57 56 55	54 53	52 51 50 49 48 3x6 =	47 46 45	44	43 42	41 40 39 38 3x6 =	37 36 35 3	34 33 32 31
00000	3 60 4 5 6	7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				8 8		23 24 25 26	27 28 29 30 \$\text{\text{\text{\$\pi\$}}} \text{\text{\$\pi\$}}
		3x6 ≠	6.00 12	15	17	18	9 62 20 21	3x6 ≷	
				5x5 =	=				Scale = 1:62.4
-		19-0-0 19-0-0			vittjatorii	***************************************	36-0-( 17-0-(	)	— H
The Building Center,	Gastonia, NC - 28052,	'		ID:uDP			16 2021 MiTek Indust	ries, Inc. Thu Oct 28	12:47:48 2021 Page 1 Z1Pphv0sBd36ByOtev
21104397	A1GE	GABLE			1	1	Job Reference (option	nal)	
Job	Truss	Truss T	уре		Qty	Ply	WAG-5		148568468
							-		

LUMBER-

**TCLL** 

TCDL

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD

20.0

0.0

10.0

2x4 SP No.3 WFBS **OTHERS** 2x4 SP No.3

**BRACING-**

Vert(LL)

Vert(CT)

Horz(CT)

**WEBS** 

n/a

n/a

31

0.00

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

n/a

n/a

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 16-45, 15-46, 14-47, 17-44, 18-43

999

999

n/a

MT20

Weight: 313 lb

244/190

FT = 20%

REACTIONS. All bearings 36-0-0.

(lb) -Max Horz 1=155(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 59, 44, 43, 42, 40, 39, 38, 37, 36, 35, 34, 33 except 32=-110(LC 11)

TC

ВС

WB

Matrix-S

0.11

0.07

0.09

Max Grav All reactions 250 lb or less at joint(s) 1, 31, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 59, 44, 43, 42, 40, 39, 38, 37, 36, 35, 34, 33, 32

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

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

TOP CHORD 13-14=-84/254, 14-15=-94/299, 15-16=-98/326, 16-17=-98/326, 17-18=-94/299,

1.15

1.15

YES

18-19=-84/254

### NOTES-

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

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 3-7-3, Exterior(2) 3-7-3 to 15-4-13, Corner(3) 15-4-13 to 22-7-3, Exterior(2) 22-7-3 to 32-3-1, Corner(3) 32-3-1 to 35-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 59, 44, 43, 42, 40, 39, 38, 37, 36, 35, 34, 33 except (jt=lb) 32=110.



October 29,2021



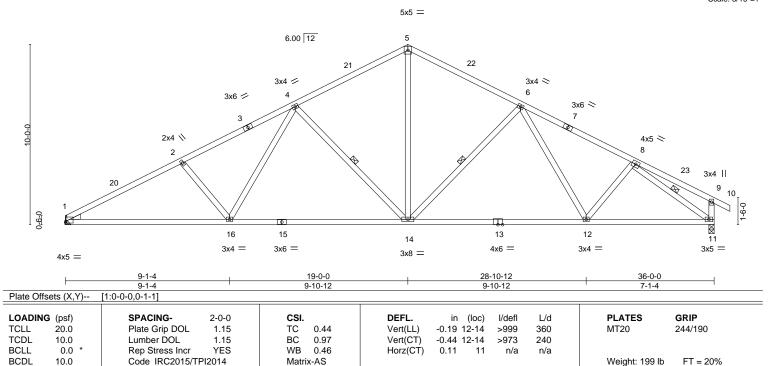
Job Truss Truss Type Qty Ply WAG-5 148568469 21104397 A2 COMMON Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:47:50 2021 Page 1 ID:uDPvKtjdtsmNrMKV28DLczy5ASp-RZ6WvP9Je8JVjZt1L1?5YWPq\_NVqHVelJV6AB4yOtet

19-0-0

6-3-1

Scale: 3/16"=1

4-5-14



LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No 2 WFBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD** WFBS

6-3-1

Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.

31-6-2

6-3-1

1 Row at midpt 4-14, 6-14, 8-11

REACTIONS. (size) 1=Mechanical, 11=0-3-8

Max Horz 1=142(LC 10)

6-5-14 6-5-14

12-8-15

6-3-1

Max Uplift 1=-136(LC 10), 11=-139(LC 11) Max Grav 1=1433(LC 1), 11=1496(LC 1)

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

 $1\hbox{-}2\hbox{--}2610/269,\ 2\hbox{-}4\hbox{--}2377/271,\ 4\hbox{-}5\hbox{--}1602/256,\ 5\hbox{-}6\hbox{--}1602/257,\ 6\hbox{-}8\hbox{--}1964/232}$ TOP CHORD BOT CHORD  $1\text{-}16\text{-}-311/2256,\ 14\text{-}16\text{-}-187/1813,\ 12\text{-}14\text{-}-85/1648,\ 11\text{-}12\text{-}-113/1606}$ WEBS 2-16=-331/167, 4-16=-42/532, 4-14=-682/211, 5-14=-83/1003, 6-14=-475/191, 8-11=-1919/156

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-0-0, Exterior(2) 16-0-0 to 22-0-0, Interior(1) 22-0-0 to 33-10-8, Exterior(2) 33-10-8 to 36-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 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) 1=136, 11=139,
- 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.



October 29,2021

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

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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/TPI 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 WAG-5 148568470 21104397 A3 COMMON 5 Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:47:51 2021 Page 1 ID:uDPvKtjdtsmNrMKV28DLczy5ASp-vlgu7lAxPSRMLiSEvkXK5ky\_Pmq30ynSY9sjjWyOtes

19-0-0

6-3-1

1-10-8

36-0-0

4-5-14

31-6-2

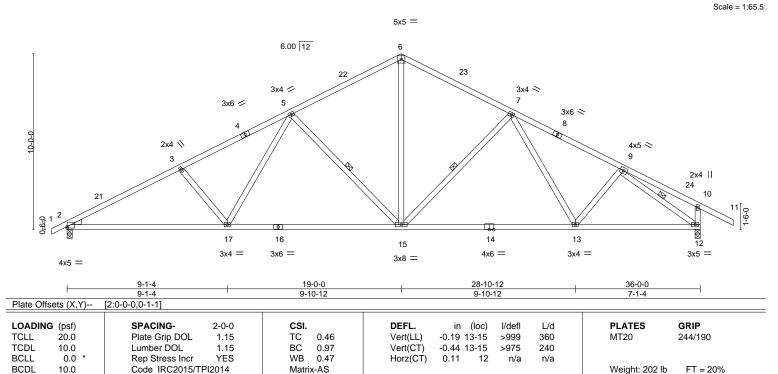
6-3-1

Structural wood sheathing directly applied, except end verticals.

5-15, 7-15, 9-12

Rigid ceiling directly applied.

1 Row at midpt



BRACING-

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 WFBS 2x4 SP No.3

WEDGE

-0-10-8 0-10-8

6-5-14

REACTIONS.

Left: 2x4 SP No.3

12-8-15

6-3-1

(size) 2=0-3-8, 12=0-3-8 Max Horz 2=147(LC 10)

Max Uplift 2=-151(LC 10), 12=-157(LC 11) Max Grav 2=1484(LC 1), 12=1558(LC 1)

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

TOP CHORD  $2\hbox{-}3\hbox{-}2599/259,\ 3\hbox{-}5\hbox{-}-2366/256,\ 5\hbox{-}6\hbox{-}-1595/249,\ 6\hbox{-}7\hbox{-}-1596/250,\ 7\hbox{-}9\hbox{-}-1945/213,$ 

10-12=-282/147

BOT CHORD 2-17=-303/2245, 15-17=-179/1806, 13-15=-59/1638, 12-13=-94/1579 **WEBS**  $3-17=-328/166,\ 5-17=-41/530,\ 5-15=-680/210,\ 6-15=-77/998,\ 7-15=-469/190,$ 

9-12=-1948/165

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2) 16-0-0 to 22-0-0, Interior(1) 22-0-0 to 34-10-8, Exterior(2) 34-10-8 to 37-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=151, 12=157.
- 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.



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, rerection and bracing of trusses and truss systems, see

ANSI/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 WAG-5 148568471 21104397 AGE COMMON SUPPORTED GAB Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:47:54 2021 Page 1

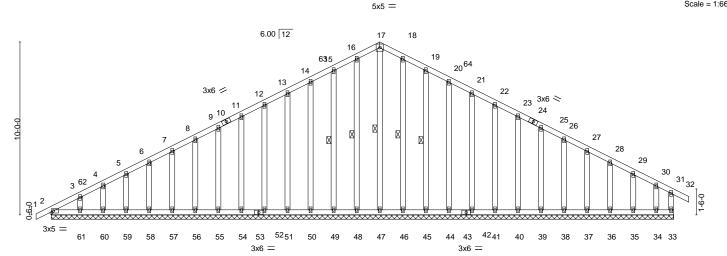
The Building Center, Gastonia, NC - 28052,

19-0-0

19-0-0

ID:uDPvKtjdtsmNrMKV28DLczy5ASp-JKM1ImDpiNpxCABpas41iMaaN\_4iDPQuE74NKryOtep 36-10<sub>-</sub>8 0-10-8

Scale = 1:66.6



<u> </u>			36-0-0 36-0-0	<del></del>
LOADING (psf) TCLL 20.0 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 IRC2015/TPI2014	CSI. TC 0.16 BC 0.08 WB 0.09 Matrix-S	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.00         32         n/r         120           Vert(CT)         -0.00         32         n/r         90           Horz(CT)         0.00         33         n/a         n/a	PLATES GRIP MT20 244/190  Weight: 316 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2 BOT CHORD except end verticals. 2x4 SP No.3 BOT CHORD WFBS

Rigid ceiling directly applied or 6-0-0 oc bracing. OTHERS 2x4 SP No.3 **WEBS** 1 Row at midpt 17-47, 16-48, 15-49, 18-46, 19-45

REACTIONS. All bearings 36-0-0.

Max Horz 2=155(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 33, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 59, 60, 61, 45, 44, 42, 41, 40, 39, 38, 37, 36, 35, 2 except 34=-110(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 33, 47, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 59, 60, 61, 46, 45, 44, 42, 41, 40, 39, 38, 37, 36, 35, 34, 2

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

TOP CHORD 14-15=-79/255, 15-16=-89/296, 16-17=-94/323, 17-18=-94/323, 18-19=-89/296,

19-20=-79/255

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 16-0-0, Corner(3) 16-0-0 to 22-0-0, Exterior(2) 22-0-0 to 33-8-0, Corner(3) 33-8-0 to 36-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 59, 60, 61, 45, 44, 42, 41, 40, 39, 38, 37, 36, 35, 2 except (jt=lb) 34=110.

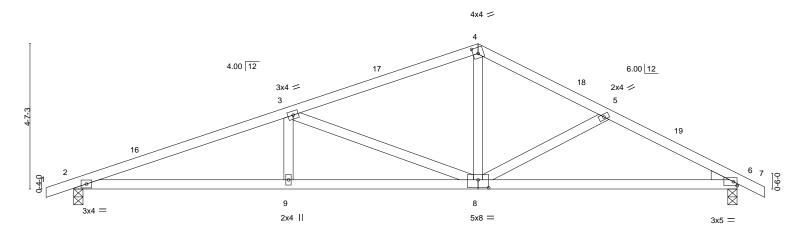


October 29,2021



Job Truss Truss Type Qty Ply WAG-5 148568472 21104397 В **ROOF SPECIAL** 5 Job Reference (optional) The Building Center, Gastonia, NC - 28052 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:47:55 2021 Page 1 ID:3KZ3eerWHF9pg2gcByvwYHy5ASe-nWwPz6DSTgxnqKm?8abGFa6heOHlxjb2TmqwsHyOteo <del>-0-10-8</del> <del>0-10-8</del> 12-9-10 16-9-6 21-0-0 21-10-8 0-10-8 6-9-9 6-0-0 3-11-13 4-2-10

Scale = 1:36.5



	6-9-9	1	6-0-0		8-2-6	
Plate Offsets (X,Y)	[4:0-1-15,0-2-4], [8:0-4-0,0-3-0]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (	loc) I/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.09 8	,	MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.67	, , , , , , , , , , , , , , , , , , , ,	3-15 >999 240	W120 211/100	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.05	6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS			Weight: 94 lb FT = 20%	

**BRACING-**

TOP CHORD

**BOT CHORD** 

12-9-10

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2

WFBS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

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

Max Horz 2=63(LC 10)

Max Uplift 2=-125(LC 6), 6=-78(LC 11) Max Grav 2=893(LC 1), 6=893(LC 1)

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

TOP CHORD 2-3=-1925/217, 3-4=-1129/171, 4-5=-1181/173, 5-6=-1422/207

6-9-9

**BOT CHORD** 2-9=-209/1795, 8-9=-209/1795, 6-8=-113/1221 WEBS 3-8=-850/178, 4-8=-5/559, 5-8=-275/123

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-9-10, Exterior(2) 9-9-10 to 15-9-10, Interior(1) 15-9-10 to 18-10-8, Exterior(2) 18-10-8 to 21-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=125.
- 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.



21-0-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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, rerection and bracing of trusses and truss systems, see

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



300	TTUSS	Truss Type	Qty	F I Y	WAG-5
					148568473
21104397	BGE	GABLE	1	1	
					Job Reference (optional)
The Building Center, G	Sastonia, NC - 28052,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Thu Oct 28 12:47:57 2021 Page 1
_		ID:3KZ3e	erWHF9pg	2gcByvwY	/Hy5ASe-jv19OoFi?IBV3dwNG?dkK?C5BB5HPn_Kw4J1xAyOtem
<sub>-</sub> 0-10-8 <sub>1</sub>		12-9-10			21-0-0 21-10-8
0-10-8		12-9-10			8-2-6 0-10-8

Scale = 1:36.7

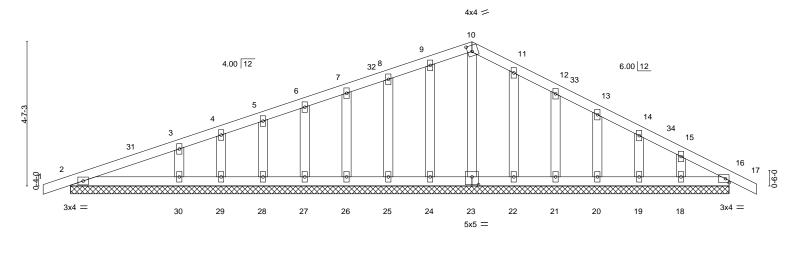


Plate Offsets	(X,Y)	[10:0-1-11,0-2-4], [23:0-2	2-8,0-3-0]									
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20	0.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	16	n/r	120	MT20	244/190
TCDL 10	0.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	17	n/r	90		
BCLL (	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	16	n/a	n/a		
BCDL 10	0.0	Code IRC2015/TF	PI2014	Matri	x-S	, ,					Weight: 113 lb	FT = 20%

21-0-0 21-0-0

LUMBER-

**OTHERS** 

TOP CHORD 2x4 SP No 2 BOT CHORD

2x4 SP No.2 2x4 SP No.3 **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 21-0-0.

(lb) -Max Horz 2=62(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 28, 29, 30, 22, 21, 20, 19, 18 Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18 except 30=275(LC 21)

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 9-9-10, Corner(3) 9-9-10 to 15-9-10, Exterior(2) 15-9-10 to 18-10-8, Corner(3) 18-10-8 to 21-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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.
- 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 25, 26, 27, 28, 29, 30, 22, 21, 20, 19, 18.



October 29,2021



Job Truss Truss Type Qty Ply WAG-5 148568474 21104397 D COMMON TRUSS Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:47:58 2021 Page 1 ID:24CiUwp\_euwDYITUT6PsXrywVP1-C5bYb8GKmbJMhnVapi9ztCkA?bOF8DMU9k2bTcyOtel <del>-0-10-8</del> <del>0-10-8</del> 6-0-0 12-10-8 0-10-8 6-0-0 6-0-0 Scale = 1:36.4 4x4 = 3 10.00 12 12 7 2x4 || 3x8 || 3x8 ||

		6-0-0	6-1	0-0	1
- 4 - 7	<b>CING-</b> 2-0-0 Grip DOL 1.15	<b>CSI.</b> TC 0.50	<b>DEFL.</b> in (loc Vert(LL) -0.02 6-	,	PLATES GRIP MT20 244/190
BCLL 0.0 * Rep	er DOL 1.15 Stress Incr YES IRC2015/TPI2014	BC 0.30 WB 0.10 Matrix-AS	Vert(CT) -0.04 6- Horz(CT) 0.01	7 >999 240 6 n/a n/a	Weight: 54 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

12-0-0

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals.

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

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

Max Horz 8=-134(LC 8)

Max Uplift 8=-49(LC 10), 6=-49(LC 11) Max Grav 8=530(LC 1), 6=530(LC 1)

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

2-3=-479/91, 3-4=-479/91, 2-8=-476/140, 4-6=-476/140 TOP CHORD

**BOT CHORD** 7-8=0/295, 6-7=0/295

**WEBS** 3-7=0/252

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-0-0, Exterior(2) 3-0-0 to 9-0-0, Interior(1) 9-0-0 to 9-10-8, Exterior(2) 9-10-8 to 12-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

6-0-0

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 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 WAG-5 148568475 21104397 DGE **GABLE** Job Reference (optional)

6-0-0

6-0-0

The Building Center,

Gastonia, NC - 28052,

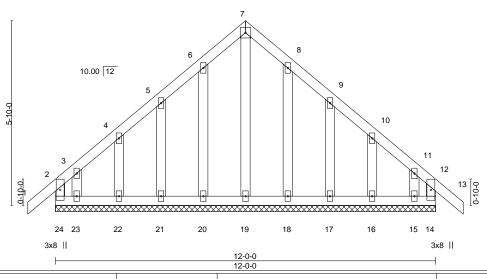
<del>-0-10-8</del> <del>0-10-8</del>

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:47:59 2021 Page 1 ID:tz2XA9h4EWXnjc7NJIiHaWywVPC-gl9woUGyXvSDIx3mNQgCPQHRT?oFtgudOOo8?2yOtek 12-0-0 12-10-8 0-10-8

4x4 =

6-0-0

Scale = 1:36.4



LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	13	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	13	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-R						Weight: 84 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 WFBS OTHERS 2x4 SP No.3

**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 12-0-0.

(lb) -Max Horz 24=-134(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 14, 20, 21, 22, 18, 16, 17 except 24=-103(LC 6), 23=-115(LC 10),

15=-103(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 16, 15, 17

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-0-0, Exterior(2) 2-0-0 to 3-0-0, Corner(3) 3-0-0 to 9-0-0, Exterior(2) 9-0-0 to 9-10-8, Corner(3) 9-10-8 to 12-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 20, 21, 22, 18, 16, 17 except (jt=lb) 24=103, 23=115, 15=103.



October 29,2021

Job Truss Truss Type Qty Ply WAG-5 148568476 21104397 DGR COMMON GIRDER 2 Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:00 2021 Page 1 ID:m\_eQAFm7x5GpKzeGH\_HHmpy5ASI-8Ujl0qHalDa4w5eyx7BRydqV8P0Pcv9nc2XhYUyOtej 6-0-0 6-0-0 Scale = 1:36.4 4x5 || 2 10.00 12 11 12 13 14 4 8x8 = 4x10 || 6-0-0 12-0-0 6-0-0 6-0-0 [1:Edge 0-4-4] [3:Edge 0-4

Plate Offsets (A, f)	[1.Euge,0-4-4], [3.Euge,0-4-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.06 4-7 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.11 4-7 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.97	Horz(CT) 0.02 1 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH		Weight: 128 lb FT = 20%

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP DSS WFBS 2x4 SP No.3

WEDGE

Left: 2x8 SP No.2, Right: 2x8 SP No.2

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

Max Horz 1=101(LC 24)

Max Uplift 1=-360(LC 8), 3=-366(LC 9)

Max Grav 1=3986(LC 1), 3=4045(LC 1)

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

TOP CHORD 1-2=-4052/419, 2-3=-4052/419 **BOT CHORD** 1-4=-262/3036, 3-4=-262/3036

WEBS 2-4=-413/4696

### NOTES-

1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=360, 3=366.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1414 lb down and 142 lb up at 2-0-12, 1414 lb down and 142 lb up at 4-0-12, 1414 lb down and 142 lb up at 6-0-12, and 1414 lb down and 142 lb up at 8-0-12, and 1414 lb down and 142 lb up at 10-0-12 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

**BRACING-**TOP CHORD

Structural wood sheathing directly applied or 5-6-13 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

October 29,2021



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	WAG-5
21104397	DGR	COMMON GIRDER	1		148568476
2.10.001		Sommon singen		2	Job Reference (optional)

The Building Center,

Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:00 2021 Page 2 ID:m\_eQAFm7x5GpKzeGH\_HHmpy5ASI-8Ujl0qHaIDa4w5eyx7BRydqV8P0Pcv9nc2XhYUyOtej

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 5-8=-20

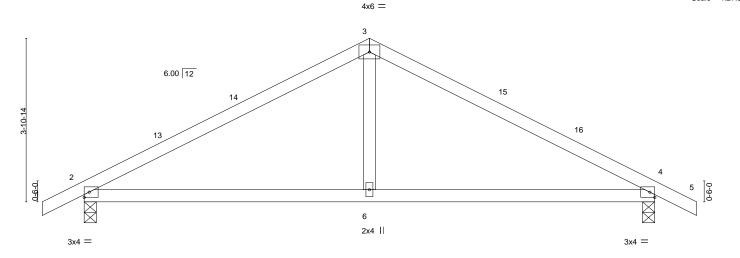
Concentrated Loads (lb)

Vert: 4=-1414(B) 11=-1414(B) 12=-1414(B) 13=-1414(B) 14=-1414(B)

Job Truss Truss Type Qty Ply WAG-5 148568477 21104397 Common Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:01 2021 Page 1

ID:uDPvKtjdtsmNrMKV28DLczy5ASp-cgHgDAIC3WixYFD9VqigVrMhaoNXLZowriHF4xyOtei -1-0-0 1-0-0 6-9-12 13-7-8 14-7-8 6-9-12 6-9-12 1-0-0

Scale = 1:27.5



	6-9-12 6-9-12		+	13-7-8 6-9-12	<u> </u>
LOADING (psf) TCLL 20.0 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 IRC2015/TPI2014	CSI. TC 0.48 BC 0.45 WB 0.11 Matrix-AS	DEFL.         ir           Vert(LL)         -0.05           Vert(CT)         -0.10           Horz(CT)         0.01	5 6-9 >999 360 0 6-9 >999 240	PLATES GRIP MT20 244/190  Weight: 52 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x4 SP No.3 **WEBS** 

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=53(LC 10)

Max Uplift 2=-67(LC 10), 4=-67(LC 11)

Max Grav 2=605(LC 1), 4=605(LC 1)

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

2-3=-748/141, 3-4=-748/141 TOP CHORD **BOT CHORD** 2-6=-26/594, 4-6=-26/594

**WEBS** 3-6=0/300

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-9-12, Exterior(2) 3-9-12 to 9-9-12, Interior(1) 9-9-12 to 11-7-8, Exterior(2) 11-7-8 to 14-7-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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.

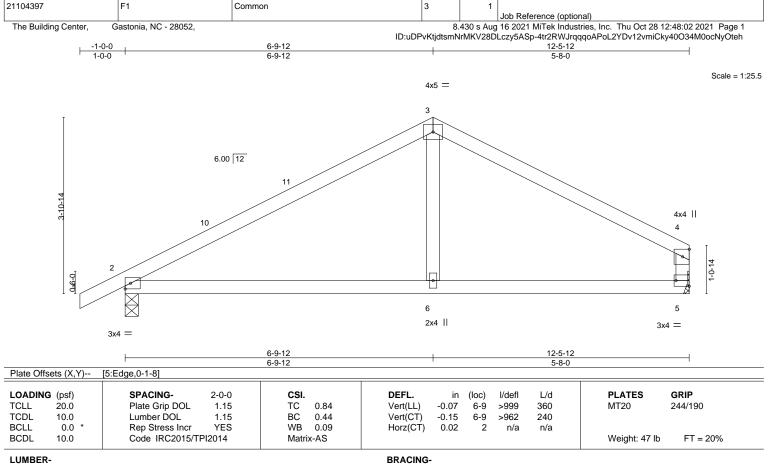


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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, rerection and bracing of trusses and truss systems, see

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





TOP CHORD

**BOT CHORD** 

Qty

Ply

WAG-5

148568478

LUMBER-TOP CHORD

Job

2x4 SP No.2 BOT CHORD 2x4 SP No 2

2x4 SP No.3 WFBS

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

Max Horz 2=72(LC 10)

Truss

Truss Type

Max Uplift 2=-65(LC 10), 5=-39(LC 11) Max Grav 2=556(LC 1), 5=491(LC 1)

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

TOP CHORD 2-3=-605/137, 3-4=-600/138, 4-5=-416/131

**BOT CHORD** 2-6=-61/463, 5-6=-61/463

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-9-12, Exterior(2) 3-9-12 to 12-4-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 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, 5.
- 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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, rerection and bracing of trusses and truss systems, see

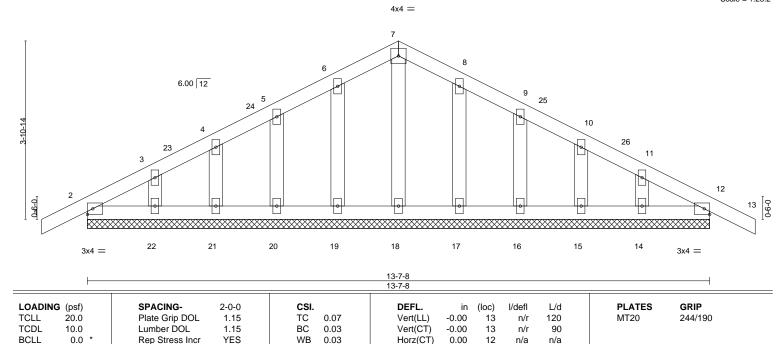
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply WAG-5 148568479 21104397 FGE Common Supported Gable Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:03 2021 Page 1 ID:uDPvKtjdtsmNrMKV28DLczy5ASp-Y3PRerJTb8yfnYNXcFk8aGS7ac9dpUeDI0mM8pyOteg -1-0-0 1-0-0 6-9-12 13-7-8

Scale = 1:25.2

1-0-0



LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

10.0

**BRACING-**

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

Weight: 72 lb

FT = 20%

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

6-9-12

REACTIONS. All bearings 13-7-8.

Max Horz 2=53(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

6-9-12

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

Code IRC2015/TPI2014

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 3-9-12, Corner(3) 3-9-12 to 9-9-12, Exterior(2) 9-9-12 to 11-7-8, Corner(3) 11-7-8 to 14-7-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

Matrix-S

- 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14.

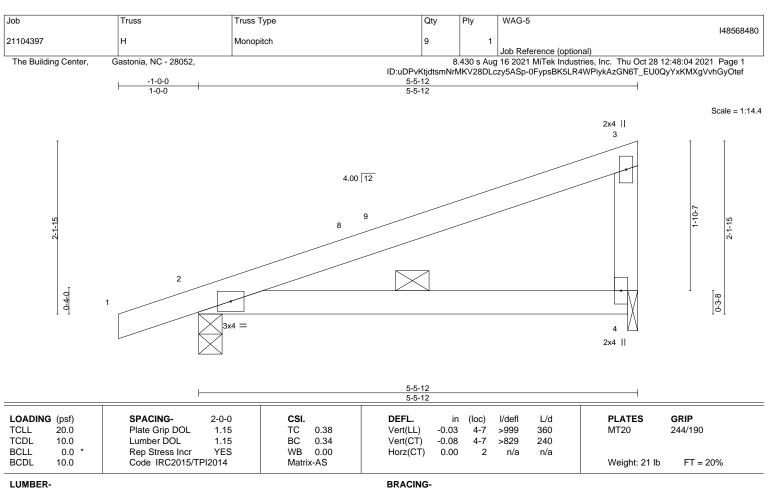


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining 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





TOP CHORD

BOT CHORD

3-0-0 oc bracing

LUMBER-

WFBS

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=70(LC 6)

Max Uplift 2=-57(LC 6), 4=-39(LC 10) Max Grav 2=279(LC 1), 4=208(LC 1)

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

### NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-4-0, Exterior(2) 2-4-0 to 5-4-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 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 at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord.



Structural wood sheathing directly applied, except end verticals.

Job Truss Truss Type Qty Ply WAG-5 148568481 21104397 HGE **GABLE** Job Reference (optional) The Building Center, Gastonia, NC - 28052 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:05 2021 Page 1 ID:uDPvKtjdtsmNrMKV28DLczy5ASp-URWB3XLj6lCN1sXwkgncfhXPEQmBHOaWmKFSDiyOtee -1-0-0 5-5-12 5-5-12 1-0-0 Scale = 1:14.4 2x4 || 2x4 || 4.00 12 2x4 || 1-10-7 2 0-4-0 0-3-8 2x4 || 2x4 || 2x4 ||

5-5-12

**BRACING-**

TOP CHORD

BOT CHORD

3-0-0 oc bracing

LOADIN	G (pst)	SPACING- 2	2-0-0	CSI.		DEFL.	ın	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.03	4-11	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.08	4-11	>829	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2	014	Matri	x-AS						Weight: 23 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 WFBS **OTHERS** 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 4=0-1-8

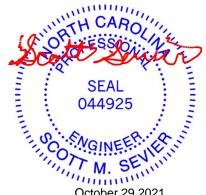
Max Horz 2=70(LC 6)

Max Uplift 2=-57(LC 6), 4=-39(LC 10) Max Grav 2=279(LC 1), 4=208(LC 1)

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

### NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Bearing at joint(s) 4 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 at joint(s) 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord.



Structural wood sheathing directly applied, except end verticals.

October 29,2021



148568482 21104397 COMMON TRUSS 2 Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:06 2021 Page 1 ID:e2aQ?WBQLPqqm3KSn7T7HNywVOY-ze4ZGtMLt3KEe066HOIrBu3WLp3A0qrf?\_\_0l8yOted <del>-0-10-8</del> <del>0-10-8</del> 7-6-4 15-0-8 15-11-0 7-6-4 0-10-8 Scale = 1:29.7 4x6 =3 6.00 12 15 0-9-0 6 2x4 || 3x4 =3x4 =15-0-8 7-6-4 7-6-4 Plate Offsets (X,Y)--[2:0-0-0,0-0-9], [4:0-0-0,0-0-9] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.07 6-12 >999 360 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.15 BC 0.55 -0.14 6-12 >999 240 WB 0.13 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.02 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-AS Weight: 56 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

Qty

Ply

WAG-5

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

Job

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No 2 2x4 SP No.3 WFBS

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

Max Horz 2=57(LC 10)

Truss

Truss Type

Max Uplift 2=-70(LC 10), 4=-70(LC 11) Max Grav 2=654(LC 1), 4=654(LC 1)

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

TOP CHORD 2-3=-836/145 3-4=-836/145

**BOT CHORD** 2-6=-28/664, 4-6=-28/664

WFBS 3-6=0/334

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-6-4, Exterior(2) 4-6-4 to 10-6-4, Interior(1) 10-6-4 to 12-11-0, Exterior(2) 12-11-0 to 15-11-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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.



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, rerection and bracing of trusses and truss systems, see

ANSI/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 WAG-5 148568483 21104397 **GABLE TGE** Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:07 2021 Page 1 ID:Pb3RgFHRTtqhjlx\_Foc?c3ywVOQ-RqexUDNzeMS4GAhlr5p4k6cqhDXQllVpDekZHbyOtec

> 0-10-8 Scale = 1:27.3

			4x4 =					
0-6-0	6.00 12	23 5	7	8	9 24 10	11	12 13 [ \tilde{\phi} \tilde{\phi} \tilde{\phi} \tilde{\phi}	
3x4 =	22 21	20 19	18	17	16 15	14	3x4 =	
15-0-8 15-0-8								
LOADING (psf) TCLL 20.0 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 NO Code IRC2015/TPI2014	CSI. TC 0.06 BC 0.04 WB 0.04 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 12 0.00 12 0.00 12	l/defl L/d n/r 120 n/r 90 n/a n/a	PLATES MT20 Weight: 80 lb	<b>GRIP</b> 244/190 FT = 20%	

LUMBER-

**OTHERS** 

-0-10-8 0-10-8

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **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.

15-0-8

REACTIONS. All bearings 15-0-8.

Max Horz 2=57(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

7-6-4 7-6-4

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-2-4, Exterior(2) 2-2-4 to 4-6-4, Corner(3) 4-6-4 to 10-6-4, Exterior(2) 10-6-4 to 12-10-4, Corner(3) 12-10-4 to 15-11-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14.



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



148568484 21104397 TGR COMMON GIRDER 2 Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:09 2021 Page 1 ID:BZKYoGo0D0fNBRMry6r\_ORy5ASi-NDmivvOEA\_ioVUqhzWrYpXh3H16bD\_J5hyDgMTyOtea 10-10-3 15-0-8 7-6-4

Qty

Ply

WAG-5

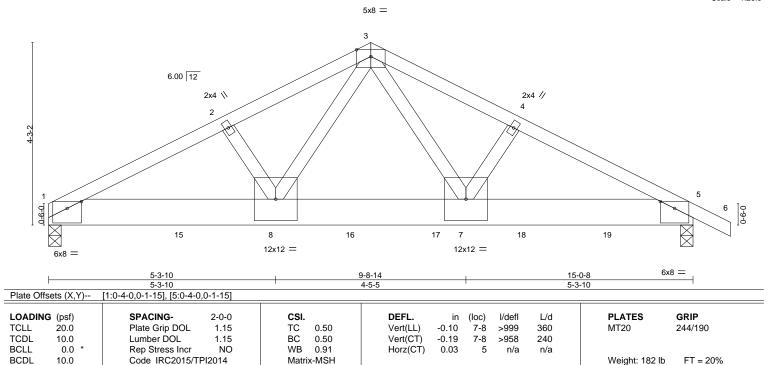
4-2-5

Structural wood sheathing directly applied or 3-9-5 oc purlins.

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

Scale = 1:26.9

0-10-8



BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

Job

TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SP DSS WFBS 2x4 SP No 3

REACTIONS.

(size) 1=0-3-8, 5=0-3-8 Max Horz 1=-63(LC 13)

Truss

Truss Type

3-3-15

Max Uplift 1=-594(LC 8), 5=-552(LC 9) Max Grav 1=5828(LC 1), 5=5327(LC 1)

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

1-2=-8829/905, 2-3=-8732/915, 3-4=-8767/916, 4-5=-8864/906 TOP CHORD

BOT CHORD 1-8=-811/7874, 7-8=-529/5596, 5-7=-755/7904

WFBS 3-7=-469/4409, 3-8=-465/4345

### NOTES-

1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=594, 5=552,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1413 lb down and 156 lb up at 1-1-4, 1414 lb down and 156 lb up at 3-1-4, 1414 lb down and 156 lb up at 5-1-4, 1414 lb down and 156 lb up at 7-1-4, 1414 lb down and 156 lb up at 9-1-4, and 1414 lb down and 156 lb up at 11-1-4, and 1414 lb down and 156 lb up at 13-1-4 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: 1-3=-60, 3-6=-60, 9-12=-20



October 29,2021

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	WAG-5
21104397	TGR	COMMON GIRDER	4	_	148568484
21104397	IGR	COMMON GIRDER	'	2	Job Reference (optional)

The Building Center,

Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:09 2021 Page 2 ID:BZKYoGo0D0fNBRMry6r\_ORy5ASi-NDmivvOEA\_ioVUqhzWrYpXh3H16bD\_J5hyDgMTyOtea

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 8=-1414(F) 11=-1413(F) 15=-1414(F) 16=-1414(F) 17=-1414(F) 18=-1414(F) 19=-1414(F)

818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply WAG-5 148568485 21104397 V1 Valley Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:09 2021 Page 1 ID:tz2XA9h4EWXnjc7NJIiHaWywVPC-NDmivvOEA\_ioVUqhzWrYpXh6v1BFDCx5hyDgMTyOtea 4-1-8 4-1-8 Scale: 1/2"=1 4x4 = 2 10.00 12 3 0-0-4 <del>-</del>0-0 2x4 📏 2x4 // 2x4 II 8-3-0 8-2-11 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.27 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.14 Vert(CT) n/a n/a 999 WB 0.04 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 31 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **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. (size) 1=8-2-6, 3=8-2-6, 4=8-2-6

Max Horz 1=63(LC 7)

Max Uplift 1=-29(LC 11), 3=-36(LC 11)

Max Grav 1=171(LC 1), 3=171(LC 1), 4=254(LC 1)

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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, rerection and bracing of trusses and truss systems, see

ANSI/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 WAG-5 148568486 21104397 V2 Valley Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:10 2021 Page 1 ID:tz2XA9h4EWXnjc7NJIiHaWywVPC-rPK46FPsxHqf7dPtWDMnMkEK2RXeyfSFvcyDuvyOteZ 2-11-2 2-11-2 5-10-3 2-11-2 Scale = 1:17.5 4x4 = 2 10.00 12 3 4-0-0 0-0-4 4 2x4 // 2x4 II 2x4 🚿 5-10-3 5-9-14 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) n/a n/a 999 MT20 244/190

LUMBER-

TCDL

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

0.0

10.0

**BRACING-**

Vert(CT)

Horz(CT)

n/a

0.00

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-10-3 oc purlins.

Weight: 21 lb

FT = 20%

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

999

n/a

n/a

n/a

3

REACTIONS. (size) 1=5-9-10, 3=5-9-10, 4=5-9-10

Max Horz 1=-43(LC 6)

Max Uplift 1=-19(LC 11), 3=-25(LC 11)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

Max Grav 1=116(LC 1), 3=116(LC 1), 4=172(LC 1)

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

вс

WB

Matrix-P

0.07

0.02

- 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.

1.15

YES

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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, rerection and bracing of trusses and truss systems, see

ANSI/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 WAG-5 148568487 21104397 V3 Valley Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:11 2021 Page 1 ID:tz2XA9h4EWXnjc7NJIiHaWywVPC-JbtSKaQUibyWln\_44xu0uynW9qtdh63O8GinQMyOteY 1-8-11 1-8-11 1-8-11 Scale = 1:10.0 3x4 2 10.00 12 3 0-0-4 0-0-4 2x4 // 2x4 📏 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) n/a n/a 999 MT20 244/190

TCDL 10.0 Lumber DOL 0.0 **BCLL** Rep Stress Incr 10.0

Horz(CT) BRACING-

Vert(CT)

n/a

0.00

LUMBER-TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

999

n/a

Weight: 10 lb

FT = 20%

n/a

n/a

3

(size) 1=3-4-13, 3=3-4-13 Max Horz 1=22(LC 7)

Max Uplift 1=-8(LC 10), 3=-8(LC 11) Max Grav 1=106(LC 1), 3=106(LC 1)

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

Code IRC2015/TPI2014

### NOTES-

REACTIONS.

BCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

BC

WB

Matrix-P

0.08

0.00

- 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.

1.15

YES

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



148568488 21104397 V5 Valley Truss Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:13 2021 Page 1 ID:NU1ITV\_KyOx2zZVrp76I95ywVKx-F\_?DkGRkECCE\_58SCMwU\_NsmgeXb90ahcaBtVEyOteW 5-6-12 11-1-9 5-6-12 5-6-12 Scale = 1:19.1 4x4 = 2 6.00 12 2x4 / 2x4 < 2x4 || 0-0-8 11-1-9 11-1-1 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.35 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.24 Vert(CT) n/a n/a 999 YES WB 0.06 **BCLL** 0.0 Rep Stress Incr Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 36 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

Qty

Ply

WAG-5

LUMBER-

Job

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

REACTIONS.

(size) 1=11-0-9, 3=11-0-9, 4=11-0-9

Max Horz 1=34(LC 10)

Truss

Truss Type

Max Uplift 1=-29(LC 10), 3=-35(LC 11), 4=-14(LC 10) Max Grav 1=182(LC 21), 3=182(LC 22), 4=430(LC 1)

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

**WEBS** 2-4=-285/122

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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

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

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, rerection and bracing of trusses and truss systems, see

ANSI/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 WAG-5 148568489 21104397 V6 Valley Truss Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 28 12:48:14 2021 Page 1 ID:cyYjomulqwwB0KtJLSzQqPywVL3-kAZbycSM?WL5cFjfl3RjWaP\_P2vEuTJrqEwR1hyOteV 3-6-12 3-6-12 7-1-9 3-6-12 Scale = 1:13.9 4x4 = 6.00 12 3 0-0-4 2x4 < 2x4 / 2x4 || 7-1-1 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.16 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.09 Vert(CT) n/a n/a 999 **BCLL** WB 0.03 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 22 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 **OTHERS** 

REACTIONS. (size) 1=7-0-9, 3=7-0-9, 4=7-0-9

Max Horz 1=20(LC 14)

Max Uplift 1=-22(LC 10), 3=-26(LC 11)

Max Grav 1=119(LC 1), 3=119(LC 1), 4=231(LC 1)

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

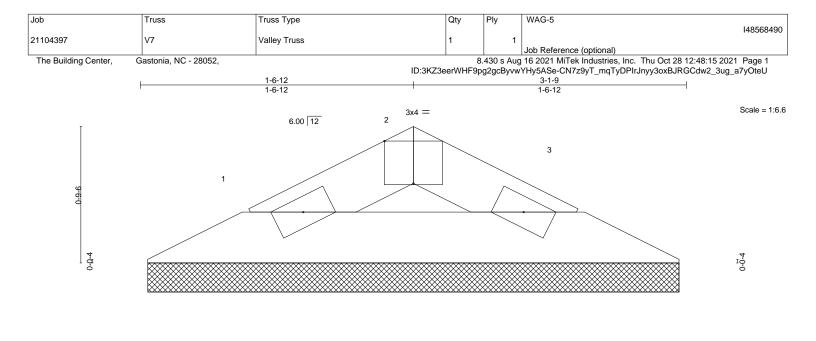


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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, rerection and bracing of trusses and truss systems, see

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





2x4 🖊 2x4 <>

3-1-9 0-0-8 3-1-1

Plate Offsets (X,Y) [2:0-2-0,Edge]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P						Weight: 8 lb	FT = 20%

LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-0-9, 3=3-0-9

Max Horz 1=6(LC 10)

Max Uplift 1=-7(LC 10), 3=-7(LC 11) Max Grav 1=75(LC 1), 3=75(LC 1)

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.





### Symbols

# PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE



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

## LATERAL BRACING LOCATION



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

### **BEARING**



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

## Industry Standards:

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

DSB-89: ANSI/TPI1:

# 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

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

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

© 2012 MiTek® All Rights Reserved



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

# **General Safety Notes**

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

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

ტ. Ö

- 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
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

φ.

- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 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
- 13. 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.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.