

Trenco 818 Soundside Rd Edenton, NC 27932

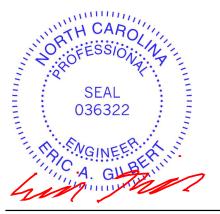
Re: J0423-1501 Lot 91 South Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I57563010 thru I57563029

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



April 4,2023

Gilbert, Eric

**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.

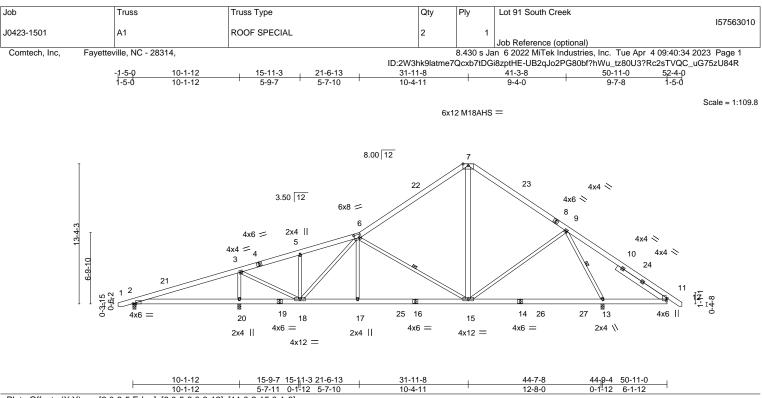


Plate Offsets (X	Y) [2:0-3-5,Edge], [6:0-5-8,0-3-12], [11:0-2	-15,0-1-0]							
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	Plate Grip DOL         1.15           Lumber DOL         1.15           *         Rep Stress Incr         YES	CSI. TC 0.57 BC 0.55 WB 0.89 Matrix-S	Vert(LL) -0.26		L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 389 lb	<b>GRIP</b> 244/190 186/179 FT = 20%		
BOT CHORD WEBS	2x6 SP No.1 2x6 SP No.1 2x4 SP No.2 *Except* 7-15: 2x6 SP No.1 Right 2x6 SP No.1 5-8-1		BRACING- TOP CHORD BOT CHORD WEBS		ctly applied	rectly applied or 5-8-7 ( or 6-0-0 oc bracing. -15, 9-13	oc purlins.		
	(size) 2=0-3-8, 13=0-3-8, 20=0-3-8 Max Horz 2=330(LC 11) Max Uplift 2=-209(LC 8), 13=-122(LC 13), 20= Max Grav 2=313(LC 23), 13=1984(LC 20), 20								
FORCES. (Ib) TOP CHORD	- Max. Comp./Max. Ten All forces 250 (lb) of 2-3=-149/491, 3-5=-1230/159, 5-6=-1181/20 9-11=-485/704								
BOT CHORD	2-20=-452/121, 18-20=-452/121, 17-18=-96/1606, 15-17=-98/1599, 13-15=0/516, 11-13=-473/519								
WEBS	3-20=-1712/366, 6-17=0/357, 6-15=-850/277, 7-15=-29/627, 9-15=-40/467, 9-13=-1880/741, 3-18=-95/1567, 6-18=-781/136								
NOTES									

# NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 3-2-14, Interior(1) 3-2-14 to 31-11-8, Exterior(2) 31-11-8 to 36-4-5, Interior(1) 36-4-5 to 52-2-7 zone; cantilever right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

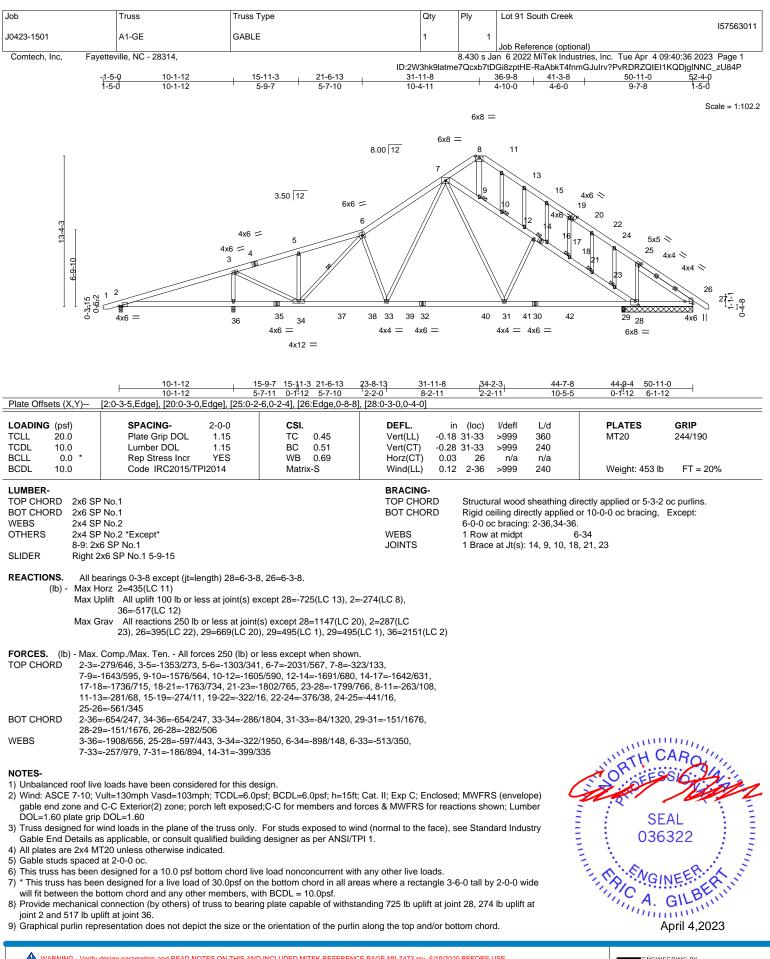
3) All plates are MT20 plates unless otherwise indicated.

- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 2, 122 lb uplift at
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 2, 122 lb uplift at joint 2, 122 lb uplift at joint 200 lb upl



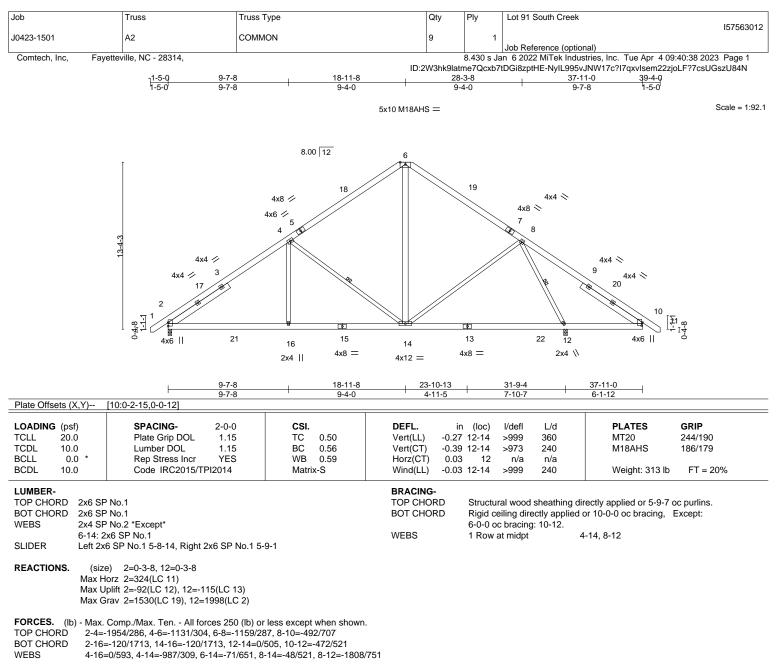
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **MSIVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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#### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-7 to 3-1-6, Interior(1) 3-1-6 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 39-2-7 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) All blates are MT20 plates unless otherwise indicated.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

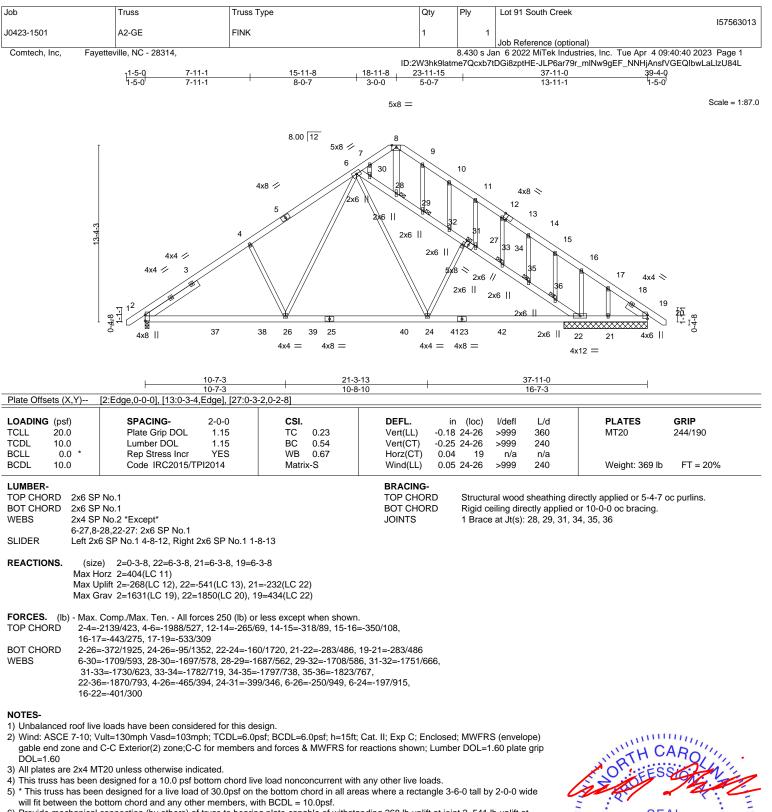
5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members, with BCDL = 10.0psf.

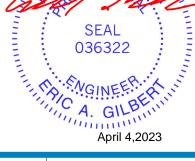
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 2 and 115 lb uplift at joint 12.



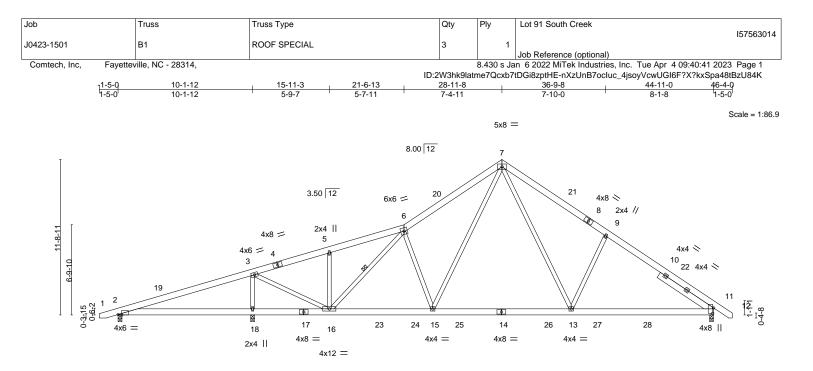




6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 2, 541 lb uplift at joint 22 and 232 lb uplift at joint 21.







		10-1-12 10-1-12		15-11-3 5-9-7		23-8-13 7-9-11		34-2 10-5	-		<u>44-11-0</u> 10-8-13	
Plate Off	sets (X,Y)	[2:0-3-5,Edge], [11:0-4-1	5,0-0-12]	5-5-1		7-5-11		10-5	-5		10-0-13	
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	0.45	Vert(Ll	.) -0.17	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(C	Ѓ) -0.26	13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(C	Ť) 0.03	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix	k-S	Wind(L	.L) 0.11	2-18	>999	240	Weight: 328 lb	FT = 20%
LUMBER	2-					BRACI	NG.					

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 SLIDER Right 2x6 SP No.1 4-10-4

TOP CHORD BOT CHORD

WEBS

Structural wood sheathing directly applied or 5-3-5 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 6-16

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 11=0-3-8 Max Horz 2=282(LC 11) Max Uplift 2=-200(LC 8), 18=-176(LC 12), 11=-91(LC 13) Max Grav 2=301(LC 23), 18=2100(LC 2), 11=1644(LC 20)

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

TOP CHORD 2-3=-117/601, 3-5=-1375/202, 5-6=-1340/249, 6-7=-2030/467, 7-9=-2017/467,

9-11=-2165/368

BOT CHORD 2-18=-576/130, 16-18=-576/130, 15-16=-103/1737, 13-15=0/1200, 11-13=-149/1648 7-13=-154/966, 3-18=-1859/400, 9-13=-473/305, 7-15=-162/978, 6-15=-530/261, WEBS 3-16=-148/1883, 6-16=-817/149

# NOTES-

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

 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 3-2-14, Interior(1) 3-2-14 to 28-11-8, Exterior(2) 28-11-8 to 33-4-5, Interior(1) 33-4-5 to 46-2-7 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

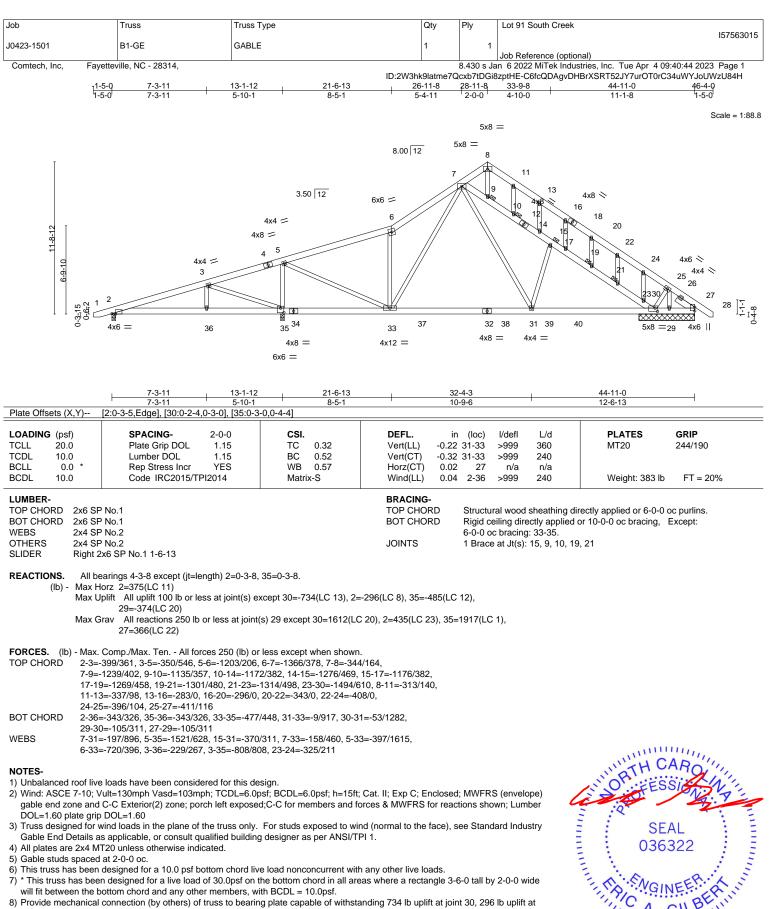
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 2, 176 lb uplift at joint 18 and 91 lb uplift at joint 11.





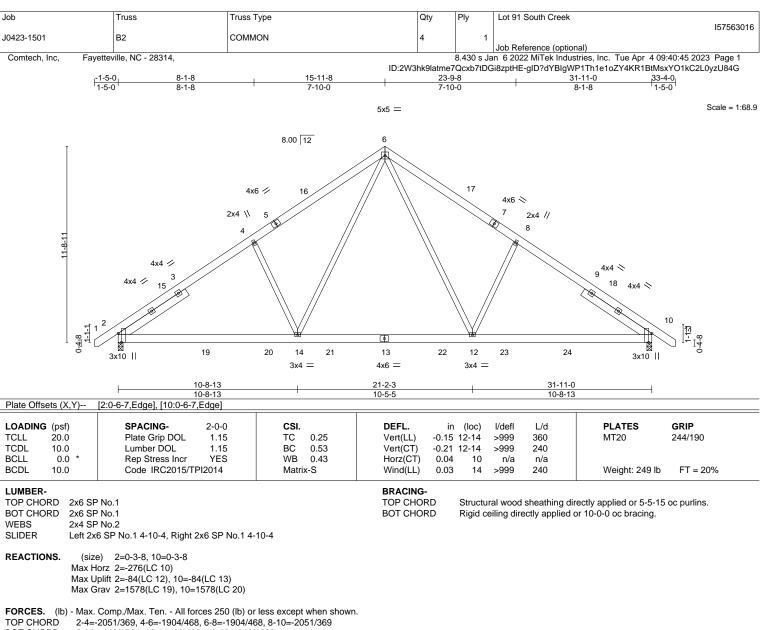


- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 734 lb uplift at joint 30, 296 lb uplift at joint 2, 485 lb uplift at joint 35 and 374 lb uplift at joint 29.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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- BOT CHORD 2-14=-142/1764, 12-14=0/1195, 10-12=-149/1586
- WEBS 6-12=-163/958, 8-12=-477/306, 6-14=-163/957, 4-14=-477/306

# NOTES-

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

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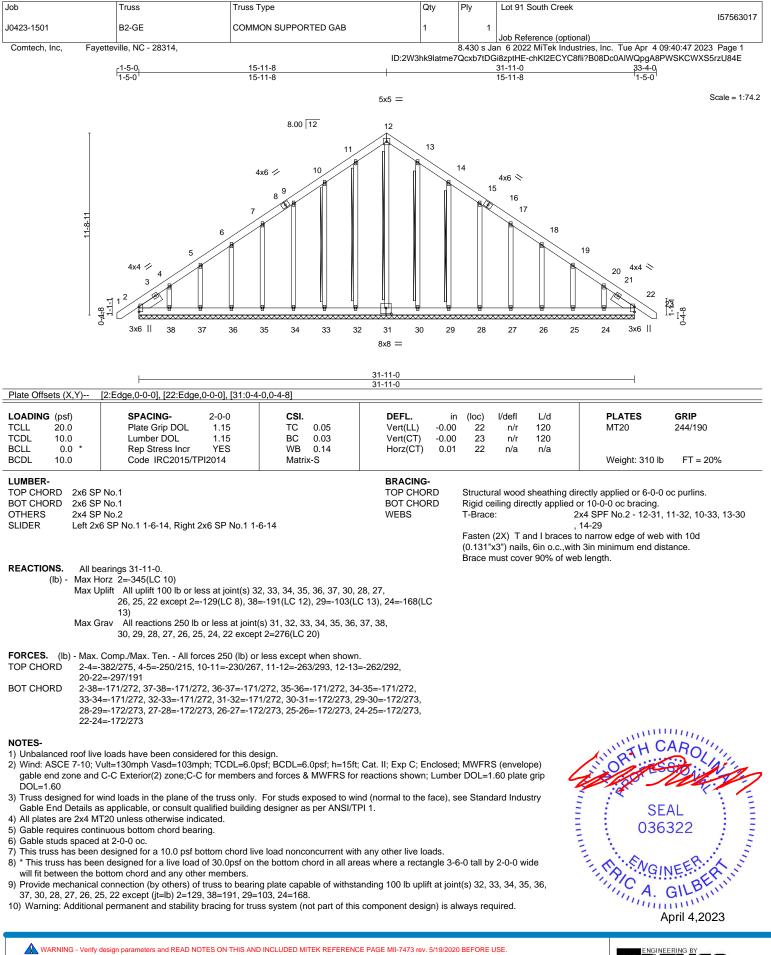
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4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 2 and 84 lb uplift at joint 10.

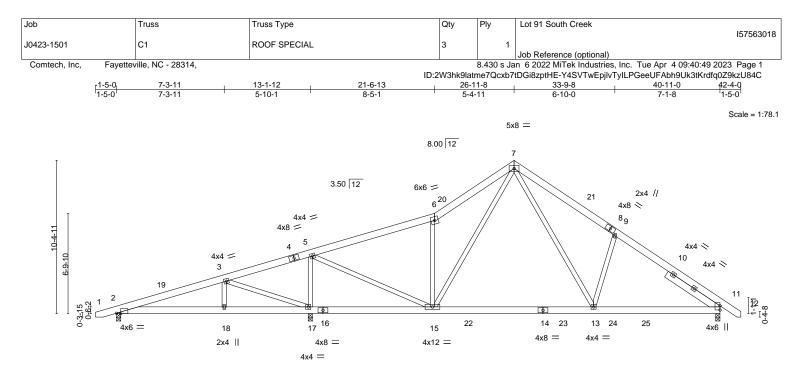






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		7-3-11	-	13-1-12 21-6-13			32-4-3			40-11-0	
		7-3-11	5-10-1		8-5-1	· · ·	10	)-9-6		8-6-13	
Plate Offse	ets (X,Y)	[2:0-3-5,Edge]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC C	).32	Vert(LL)	-0.22 13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC (	).51	Vert(CT)	-0.32 13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB C	0.53	Horz(CT)	0.02 11	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	912014	Matrix-8	6	Wind(LL)	0.04 2-18	>999	240	Weight: 299 lb	FT = 20%

## LUMBER-

 TOP CHORD
 2x6 SP No.1

 BOT CHORD
 2x6 SP No.1

 WEBS
 2x4 SP No.2

 SLIDER
 Right 2x6 SP No.1 4-3-0

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, Except: 6-0-0 oc bracing: 15-17.

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 11=0-3-8 Max Horz 2=250(LC 11) Max Uplift 2=-213(LC 8), 17=-247(LC 8), 11=-84(LC 13) Max Grav 2=440(LC 23), 17=1873(LC 1), 11=1279(LC 20)

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

TOP CHORD 2-3=-415/355, 3-5=-238/527, 5-6=-1171/144, 6-7=-1334/303, 7-9=-1582/374,

9-11=-1667/244

 BOT CHORD
 2-18=-262/341, 17-18=-262/341, 15-17=-444/350, 13-15=0/813, 11-13=-62/1242

 WEBS
 3-18=-226/267, 3-17=-809/653, 5-17=-1473/416, 5-15=-281/1543, 6-15=-699/298,

7-13=-178/910, 9-13=-428/289, 7-15=-89/476

#### NOTES-

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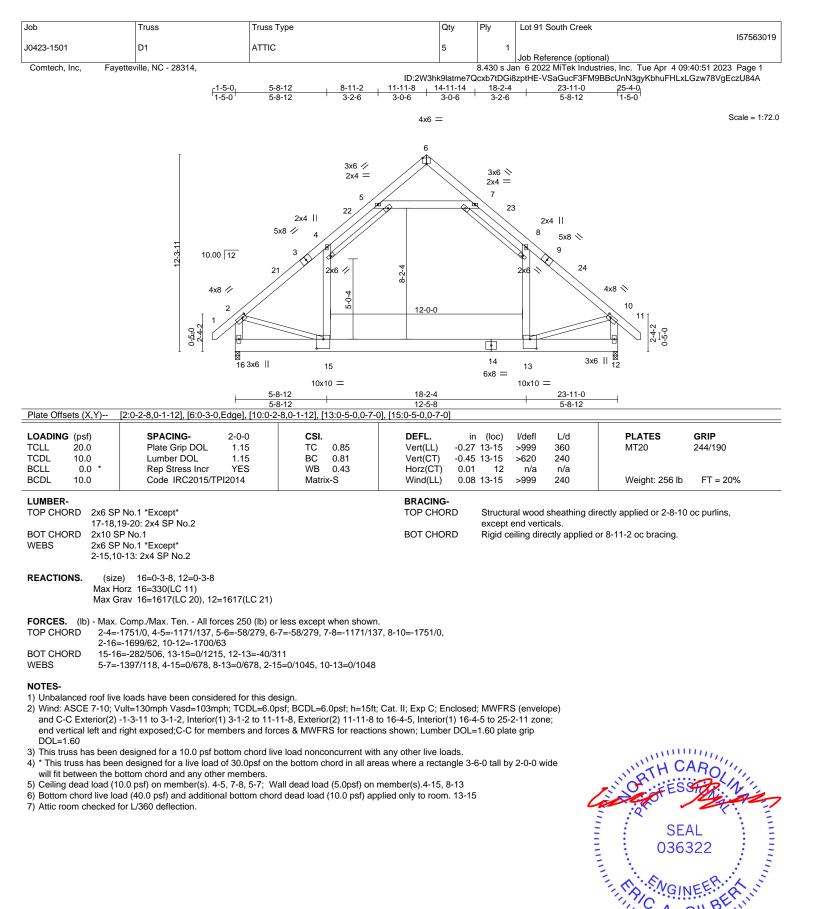
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=213, 17=247.





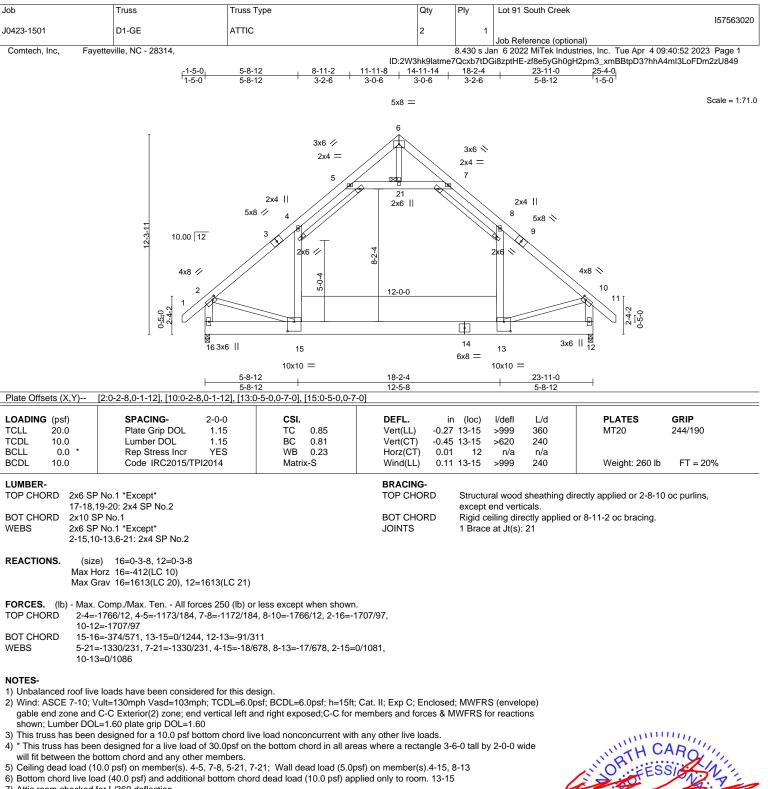


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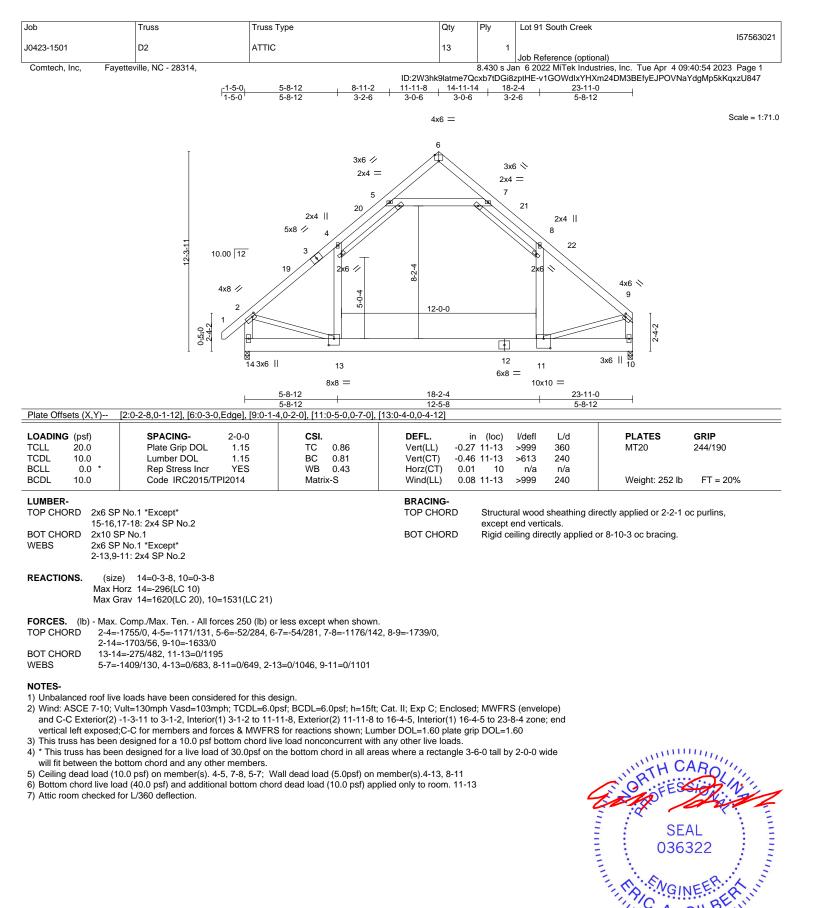


7) Attic room checked for L/360 deflection.



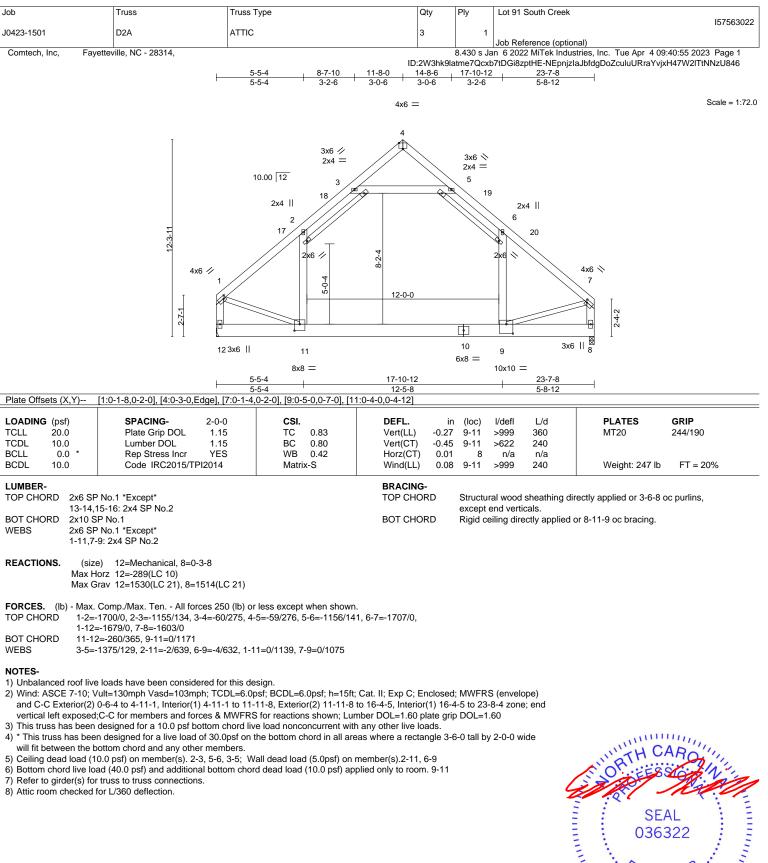
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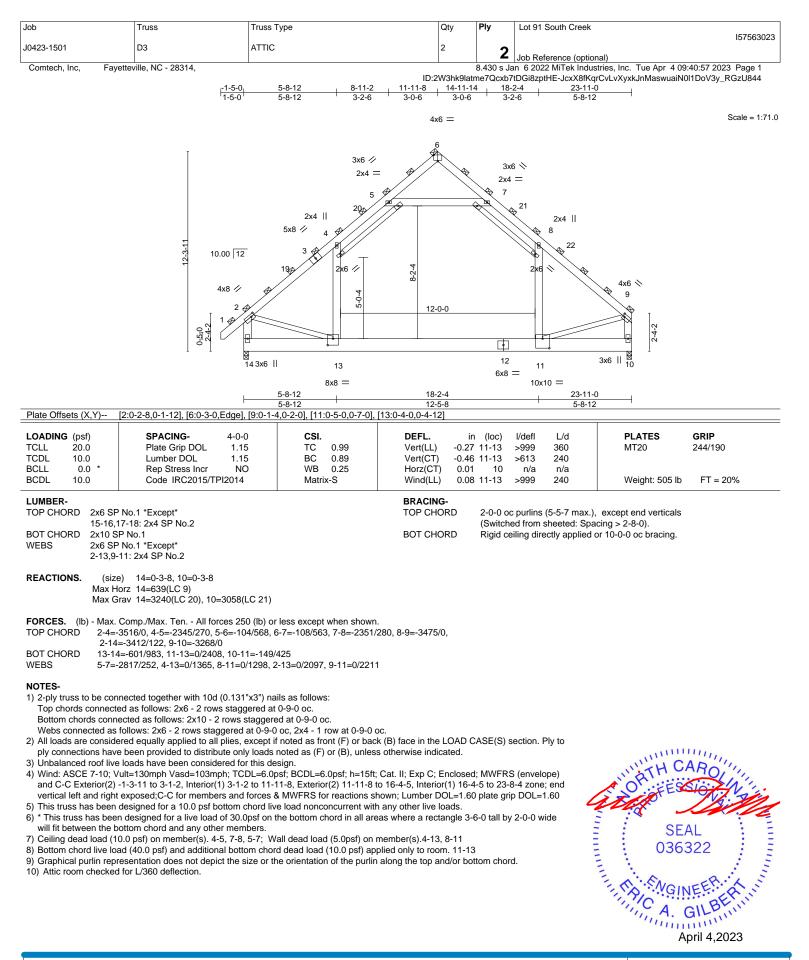




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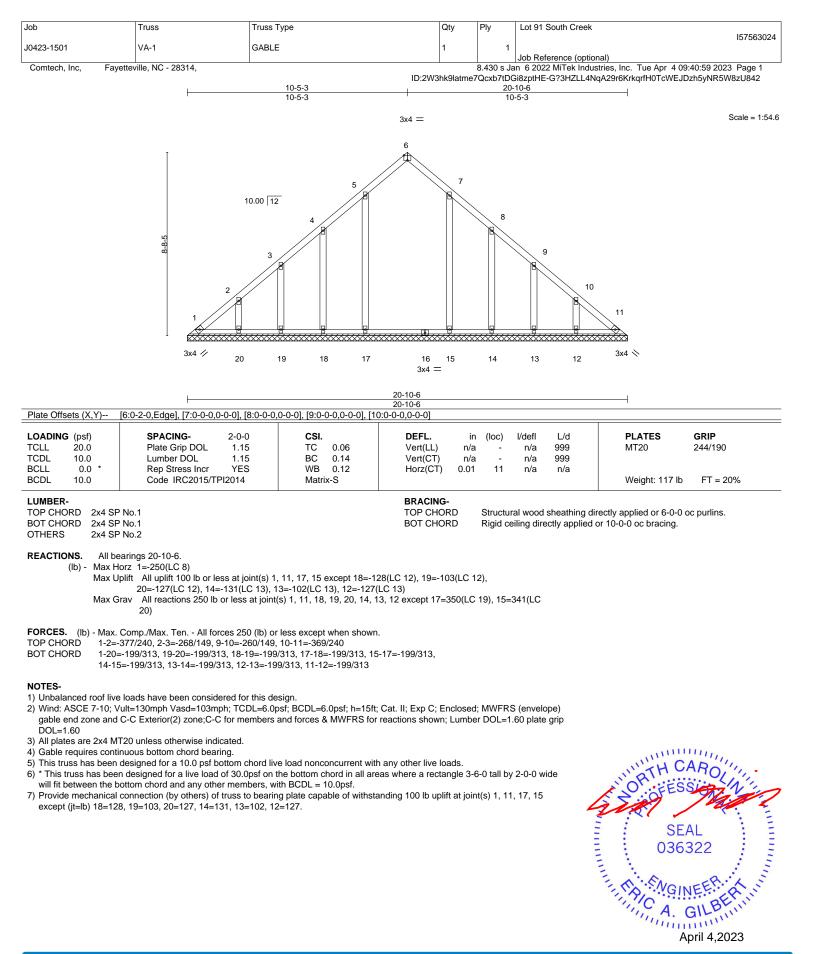
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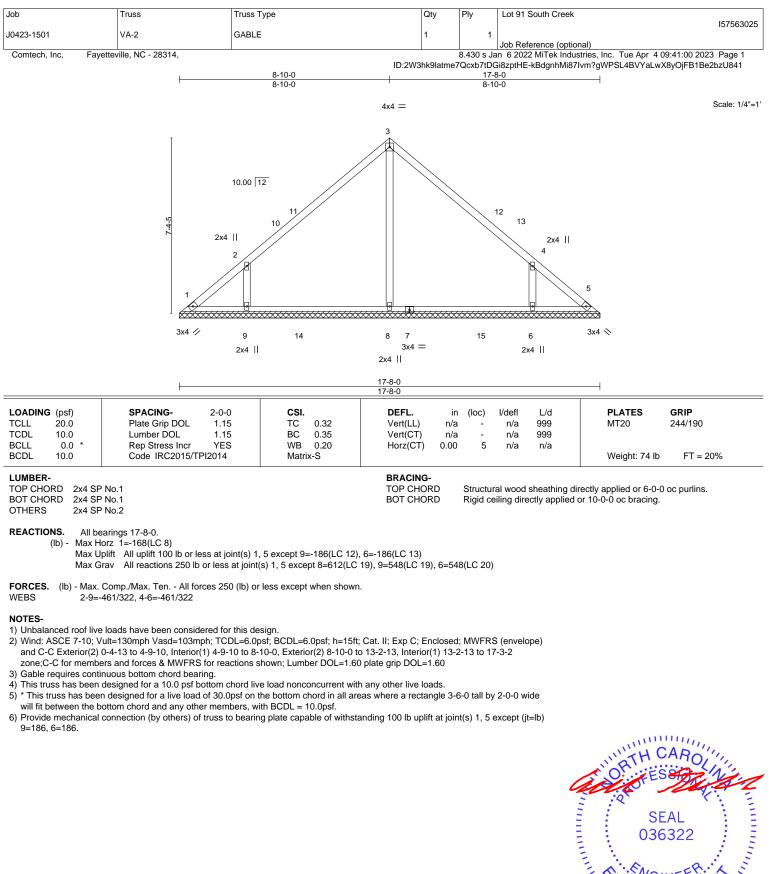
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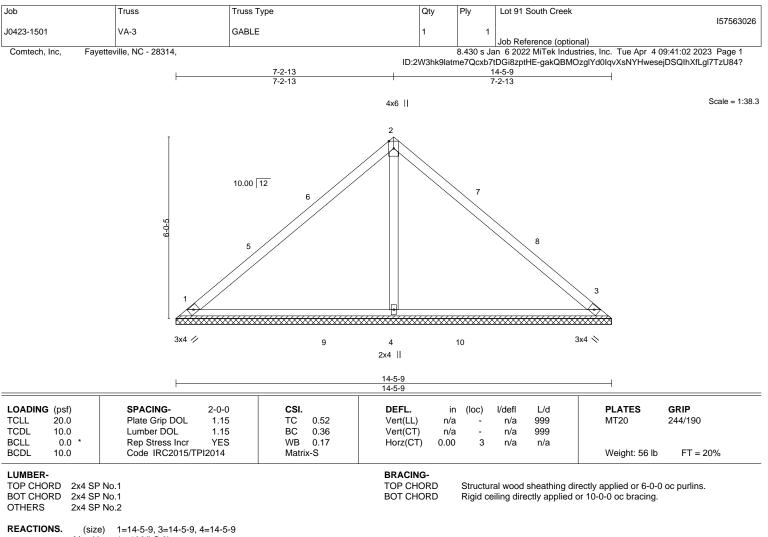
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Max Horz 1=-136(LC 8) Max Uplift 1=-32(LC 13), 3=-45(LC 13)

Max Grav 1=292(LC 1), 3=292(LC 1), 4=671(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-4=-306/115

# NOTES-

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-2-13, Exterior(2) 7-2-13 to 11-7-10, Interior(1) 11-7-10 to 14-0-12 zone; 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.

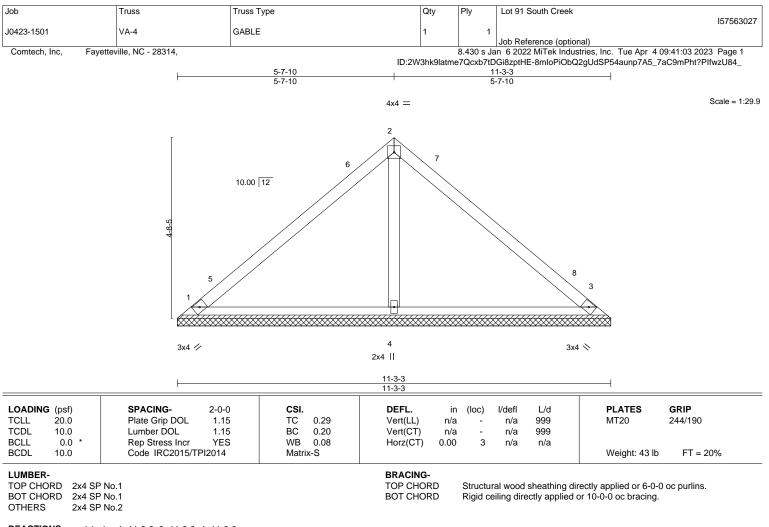
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.





<sup>1)</sup> Unbalanced roof live loads have been considered for this design.



REACTIONS. (size) 1=11-3-3, 3=11-3-3, 4=11-3-3 Max Horz 1=-104(LC 8) Max Uplift 1=-25(LC 13), 3=-34(LC 13) Max Grav 1=223(LC 1), 3=224(LC 1), 4=390(LC 1)

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

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-7-10, Exterior(2) 5-7-10 to 10-0-6, Interior(1) 10-0-6 to 10-10-6 zone;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.

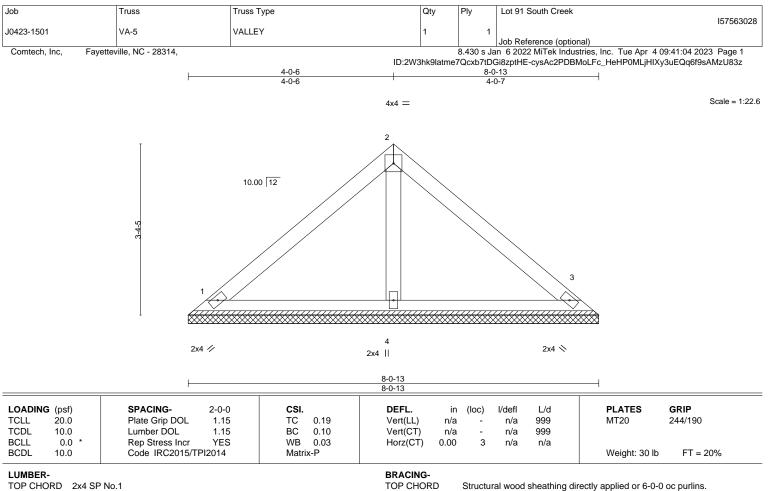
5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.







BOT CHORD

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

TOP CHORD

2x4 SP No.1 BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.2

REACTIONS. 1=8-0-13, 3=8-0-13, 4=8-0-13 (size) Max Horz 1=73(LC 9)

Max Uplift 1=-25(LC 13), 3=-32(LC 13) Max Grav 1=168(LC 1), 3=168(LC 1), 4=245(LC 1)

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

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

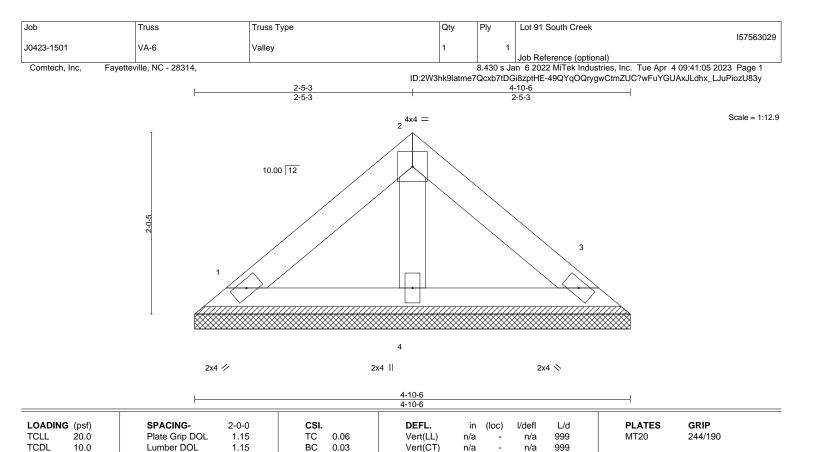
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3. 6) N/A







Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

n/a

n/a

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

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

Weight: 17 lb

FT = 20%

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OTHERS

BCLL

BCDL

LUMBER-TOP CHORD

BOT CHORD

0.0

10.0

2x4 SP No.2 REACTIONS. 1=4-10-6, 3=4-10-6, 4=4-10-6 (size)

2x4 SP No.1

2x4 SP No.1

Max Horz 1=-41(LC 8) Max Uplift 1=-14(LC 13), 3=-18(LC 13)

Max Grav 1=94(LC 1), 3=94(LC 1), 4=137(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

WB

Matrix-P

0.01

and C-C Exterior(2) zone;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.

YES

5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.





