

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 150\_1446\_B 150.1446.B

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I39709729 thru I39709750

My license renewal date for the state of North Carolina is December 31, 2019.

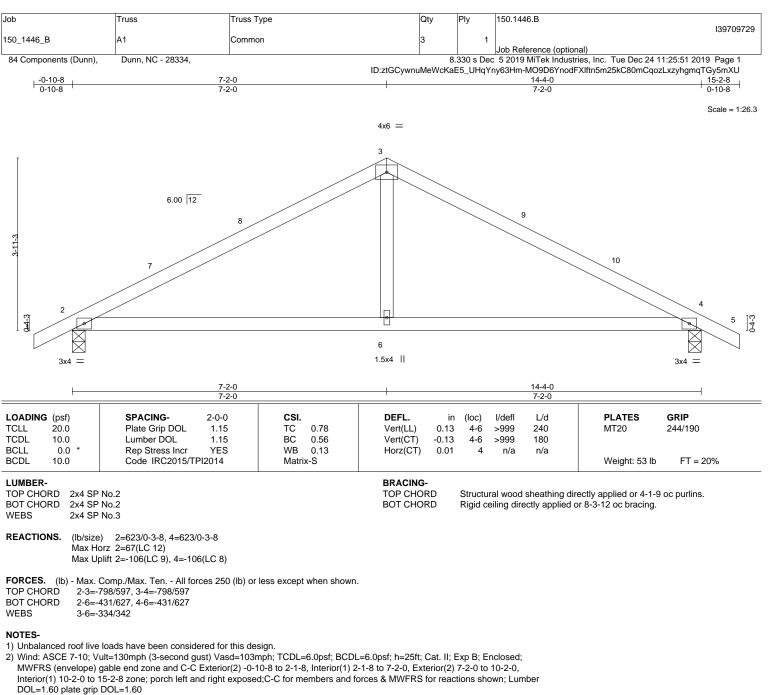
North Carolina COA: C-0844



December 26,2019

# 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.



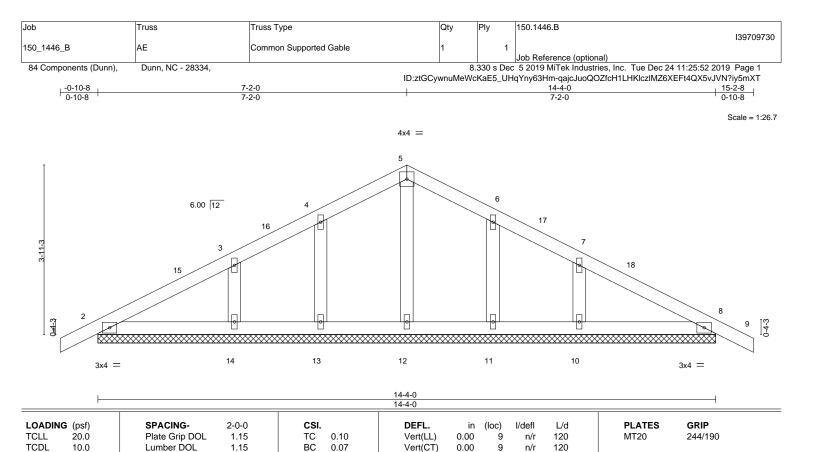
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.







LUMBER-	
---------	--

BCLL

BCDL

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

0.0

10.0

YES

BRACING-TOP CHORD BOT CHORD

Horz(CT)

0.00

8

n/a

n/a

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

Weight: 65 lb

FT = 20%

REACTIONS. All bearings 14-4-0. (lb) - Max Horz 2=67(LC 12)

Max Hold 2=67 (LC 12) Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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.

Rep Stress Incr

Code IRC2015/TPI2014

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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 7-2-0, Corner(3) 7-2-0 to 10-2-0, Exterior(2) 10-2-0 to 15-2-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

WB

Matrix-S

0.05

4) All plates are 1.5x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

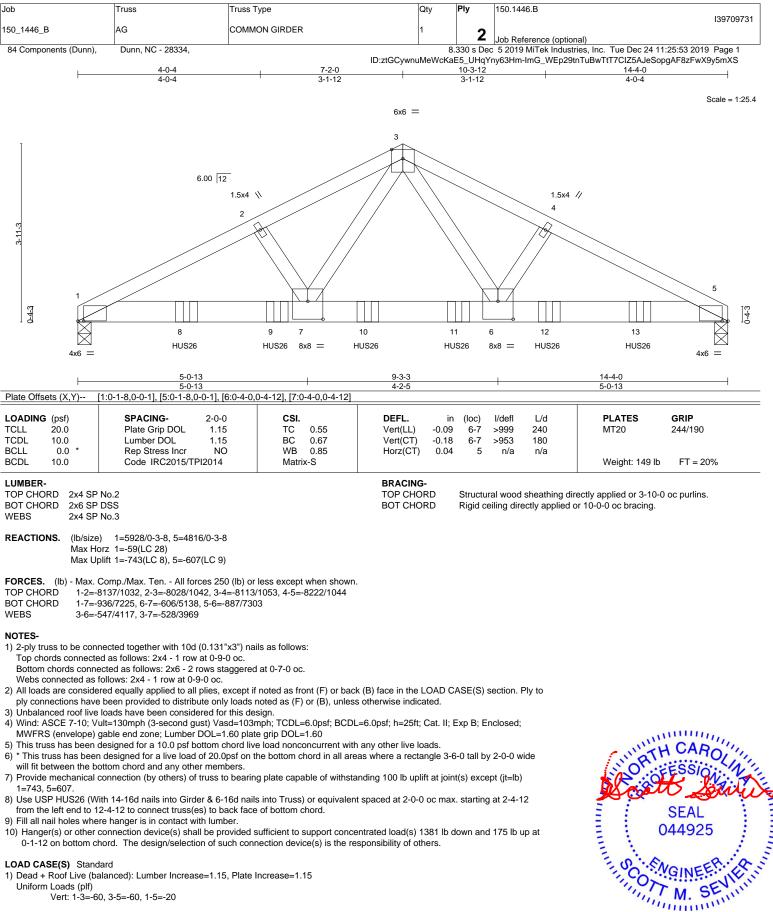
6) Gable studs spaced at 2-0-0 oc.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.







## December 26,2019



Edenton, NC 27932

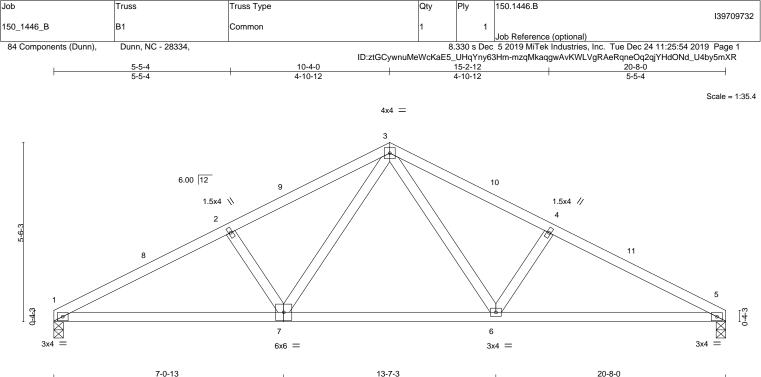
## Continued on page 2

Job	Truss	Truss Type	Qty	Ply	150.1446.B
					139709731
150_1446_B	AG	COMMON GIRDER	1	2	
				<b>_</b>	Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,		8.	330 s Dec	5 2019 MiTek Industries, Inc. Tue Dec 24 11:25:53 2019 Page 2
		ID:ztGCywnu	MeWcKa	E5_UHqYr	v63Hm-ImG_WEp29tnTuBwTtT7CIZ5AJeSopgAF8zFwX9y5mXS

# LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 1=-1381(B) 8=-1373(B) 9=-1373(B) 10=-1373(B) 11=-1373(B) 12=-1373(B) 13=-1373(B)





	7-0-13 7-0-13		13-7-3 6-6-5			20-8-0 7-0-13	
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 0.37 BC 0.56 WB 0.20 Matrix-S	DEFL.         in           Vert(LL)         -0.07           Vert(CT)         -0.17           Horz(CT)         0.04	1-7 :	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 92 lb	<b>GRIP</b> 244/190 FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

WEBS 2x4 SP No.3 **REACTIONS.** (lb/size) 1=815/0-3-8, 5=815/0-3-8

Max Horz 1=-87(LC 17) Max Uplift 1=-96(LC 12), 5=-96(LC 13)

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

TOP CHORD 1-2=-1411/209, 2-3=-1255/223, 3-4=-1255/223, 4-5=-1411/209

BOT CHORD 1-7=-185/1212, 6-7=-35/805, 5-6=-123/1212

WEBS 3-6=-92/481, 4-6=-306/190, 3-7=-92/481, 2-7=-306/189

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-4-0, Exterior(2) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-6-4 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 20.0psf 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.

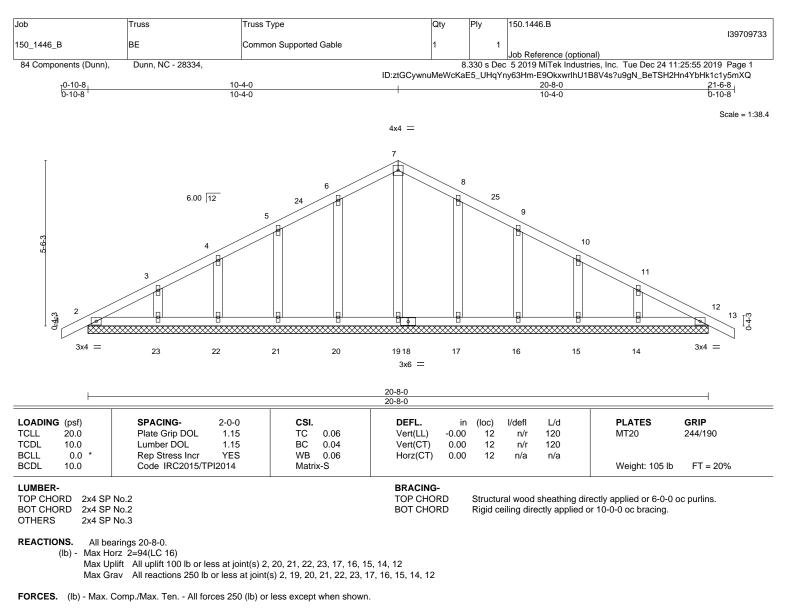
5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.



Structural wood sheathing directly applied or 4-5-2 oc purlins.

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





#### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed;

MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-4-0, Exterior(2) 2-4-0 to 10-4-0, Corner(3) 10-4-0 to 13-4-0, Exterior(2) 13-4-0 to 21-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 1.5x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

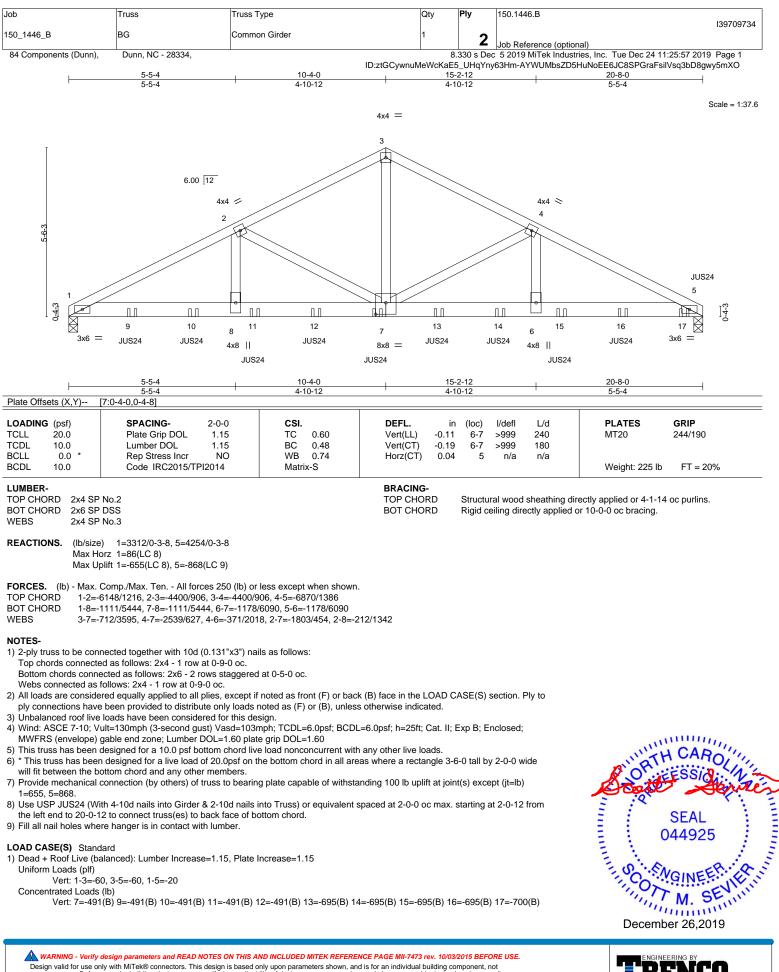
6) Gable studs spaced at 2-0-0 oc.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

QUILLOU WILLING AND DELLA 044925 "IIIIIIIIII December 26,2019

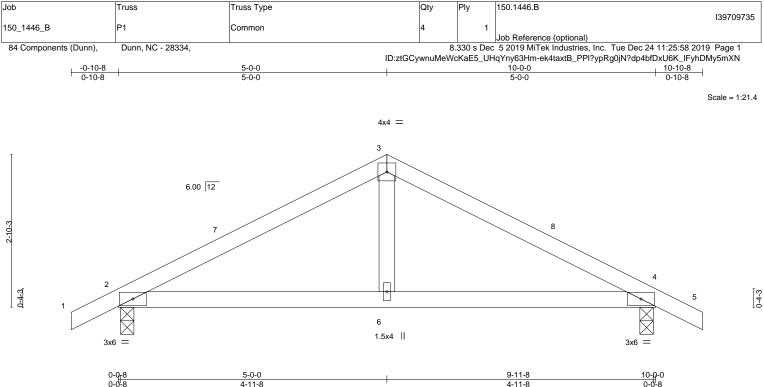




Vert: 7=-491(B) 9=-491(B) 10=-491(B) 11=-491(B) 12=-491(B) 13=-695(B) 14=-695(B) 15=-695(B) 16=-695(B) 17=-700(B)

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 being read to be only with thread outpetting the boots into besign is based only door 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932



	0-0-8		4-11-8			l			4-11	-	0-0-8	
LOADING (psf			-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0			1.15	TC	0.32	Vert(LL)	0.04	4-6	>999	240	MT20	244/190
TCDL 10.0			1.15	BC	0.41	Vert(CT)	-0.03	2-6	>999	180		
BCLL 0.0			/ES	WB	0.09	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI20	14	Matrix	k-S						Weight: 38 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

REACTIONS. (lb/size) 2=450/0-3-0, 4=450/0-3-0 Max Horz 2=49(LC 16) Max Uplift 2=-75(LC 9), 4=-75(LC 8)

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

 TOP CHORD
 2-3=-540/445, 3-4=-540/442

 BOT CHORD
 2-6=-309/421, 4-6=-309/421

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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 5-0-0, Exterior(2) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 10-10-8 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) \* This truss has been designed for a live load of 20.0psf 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.

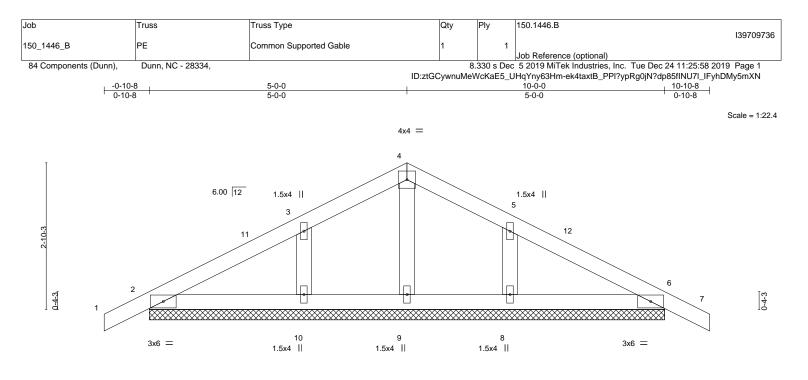
5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.



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

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





			10-0-0 10-0-0						
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT)	0.00	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	( )					Weight: 42 lb	FT = 20%

## LUMBER-

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

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 10-0-0. (lb) - Max Horz 2=49(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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 5-0-0, Corner(3) 5-0-0 to 8-0-0, Exterior(2) 8-0-0 to 10-10-8 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Gable requires continuous bottom chord bearing.

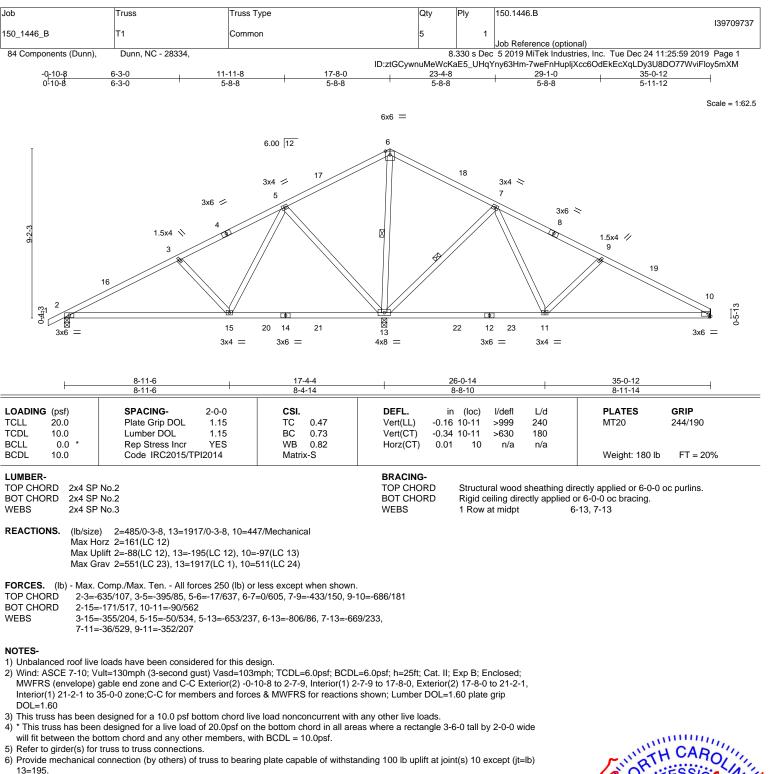
5) Gable studs spaced at 2-0-0 oc.

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 20.0psf 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.

C MULLIUM, 044925 "innin December 26,2019

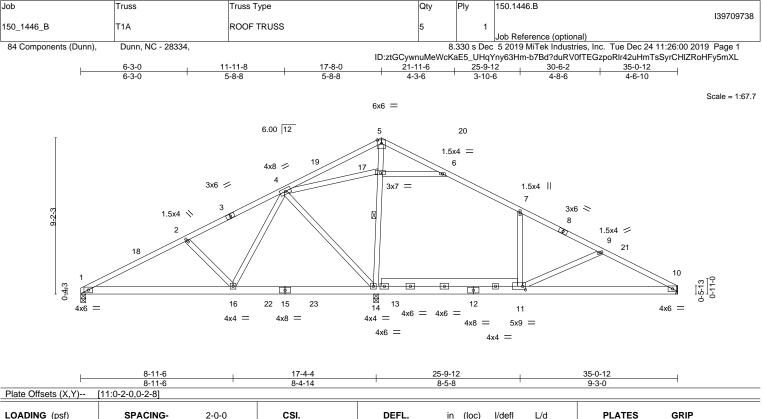




7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.







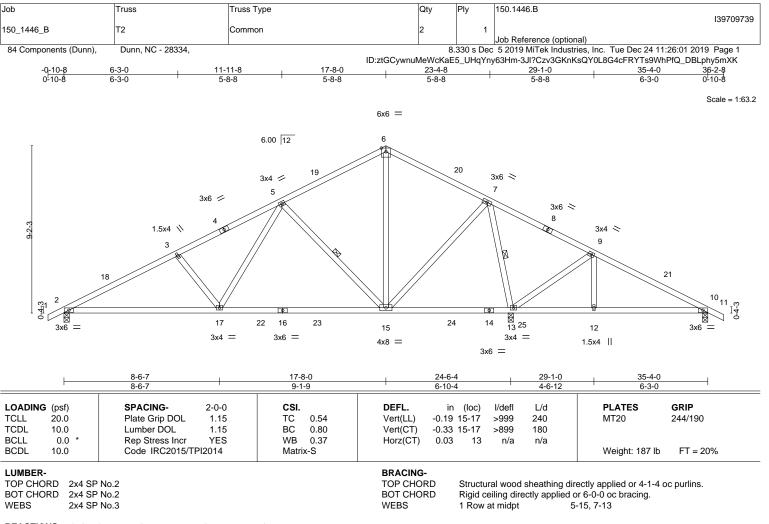
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	<b>CSI.</b> TC 0.92 BC 0.60 WB 0.77 Matrix-S	Vert(LL) 0.46	n (loc) l/defl 5 10-11 >460 2 10-11 >232 I 10 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 226 lb	<b>GRIP</b> 244/190 FT = 20%			
LUMBER- TOP CHORD     2x4 SP No.2 *Except* 5-8: 2x4 SP No.1     DOP CHORD     Structural wood sheathing tirectly applied or 2-2-0 oc purlins.       BOT CHORD     2x6 SP DSS *Except* 11-13: 2x6 SP No.2     BOT CHORD     Rigid ceiling directly applied or 6-0-0 oc bracing.       WEBS     2x4 SP No.3     Structural wood sheathing tirectly applied or 6-0-0 tracing.										
REACTIONS. (lb/size) 1=629/0-3-8, 14=1509/0-3-8, 10=651/Mechanical Max Horz 1=147(LC 12) Max Uplift 1=-72(LC 12), 14=-182(LC 12), 10=-145(LC 13) Max Grav 1=629(LC 1), 14=1567(LC 2), 10=715(LC 25)										
TOP CHORD 1-2=-	Comp./Max. Ten All forces 250 (lb) or 927/167, 2-4=-668/152, 4-5=-196/1090, 549/147, 9-10=-987/271									
BOT CHORD 1-16= WEBS 2-16=	BOT CHORD 1-16=-191/765, 14-16=-25/370, 11-14=-9/380, 10-11=-193/865									
2) Wind: ASCE 7-10; V	e loads have been considered for this de (ult=130mph (3-second gust) Vasd=103r gable end zone and C-C Exterior(2) 0-1	mph; TCDL=6.0psf; BCDL= -12 to 3-7-13, Interior(1) 3-	-7-13 to 17-8-0, Exterio	r(2) 17-8-0 to 21-2						

- Interior(1) 21-2-1 to 35-0-0 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 20.0psf 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) 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) 10=145.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 14. This connection is for uplift only and does not consider lateral forces.

8) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

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REACTIONS. (lb/size) 2=924/0-3-8, 13=1776/0-3-8, 10=226/0-3-8 Max Horz 2=-155(LC 17) Max Uplift 2=-144(LC 12), 13=-146(LC 13), 10=-85(LC 13) Max Grav 2=924(LC 1), 13=1776(LC 1), 10=309(LC 24)

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

TOP CHORD 2-3=-1453/223, 3-5=-1244/219, 5-6=-462/175, 6-7=-461/177, 7-9=-40/637,

9-10=-169/263

BOT CHORD 2-17=-268/1241, 15-17=-119/797 WEBS 3-17=-329/200, 5-17=-56/551, 5-15=-648/240, 7-15=-71/827, 7-13=-1402/187, 9-13=-523/170

## NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-7-14, Interior(1) 2-7-14 to 17-8-0, Exterior(2) 17-8-0 to 21-2-6, Interior(1) 21-2-6 to 36-2-8 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.

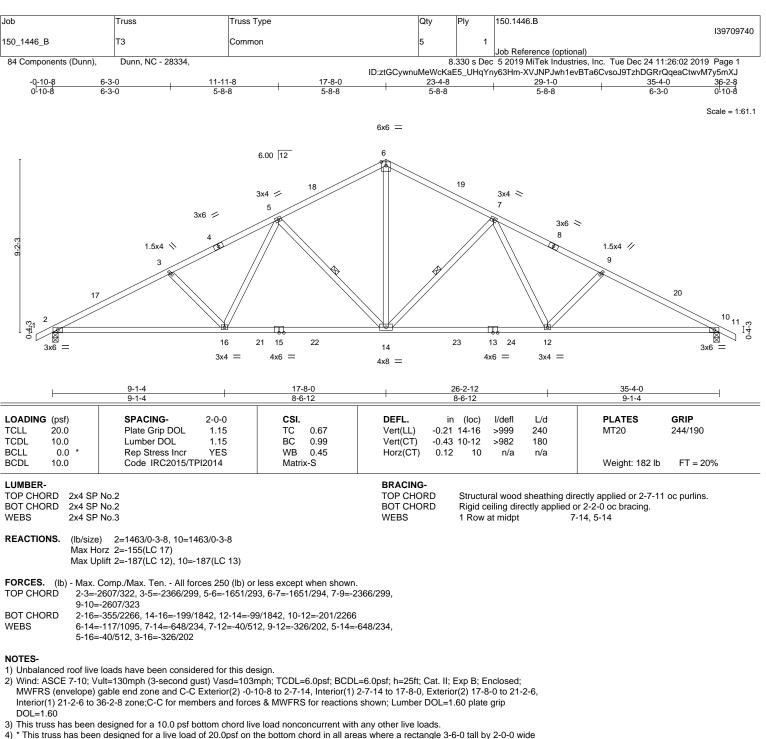
4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=146.

6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.



818 Soundside Road Edenton, NC 27932

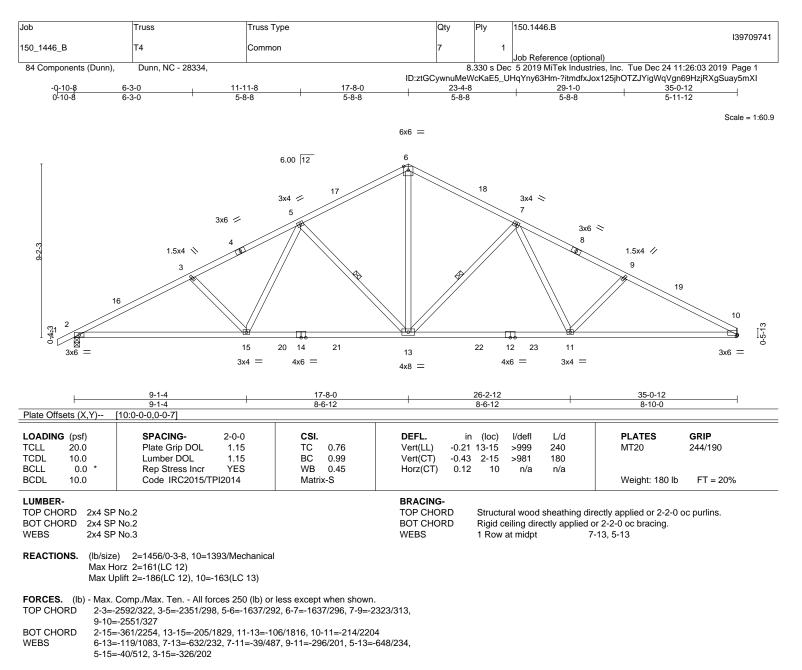


4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.







#### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-7-9, Interior(1) 2-7-9 to 17-8-0, Exterior(2) 17-8-0 to 21-2-1, Interior(1) 21-2-1 to 35-0-0 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 20.0psf 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.

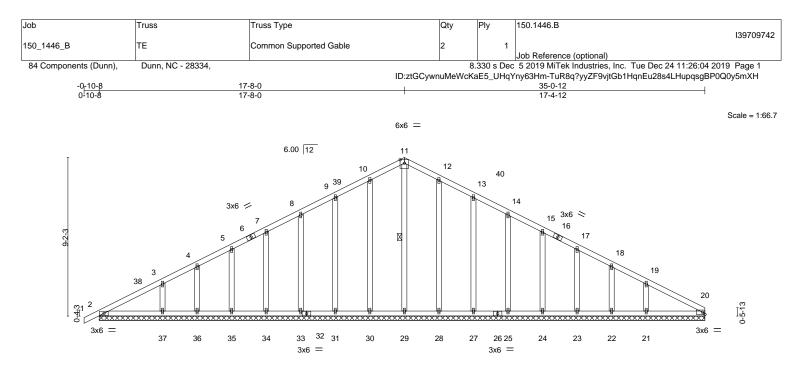
5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=163.

7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.







			35-0-12 35-0-12		
LOADING (psf) ICLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.14	DEFL. in (loo Vert(LL) -0.00	c) l/defl L/d 1 n/r 120	PLATES         GRIP           MT20         244/190
FCDL         10.0           3CLL         0.0 *           3CDL         10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.10 WB 0.15 Matrix-S	Vert(CT) 0.00 Horz(CT) 0.01 2	1 n/r 120 20 n/a n/a	Weight: 222 lb FT = 20%

BOT CHORD

WEBS

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

11-29

1 Row at midpt

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

OTHERS 2x4 SP No.3

REACTIONS. All bearings 35-0-12.

(lb) - Max Horz 2=161(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22, 21 Max Grav All reactions 250 lb or less at joint(s) 2, 29, 30, 31, 33, 34, 35, 36, 28, 27, 25, 24, 23, 22, 20 except 37=286(LC 23), 21=277(LC 24)

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

TOP CHORD 10-11=-103/291, 11-12=-103/293, 12-13=-87/250

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-7-9, Exterior(2) 2-7-9 to 17-8-0, Corner(3) 17-8-0 to 21-2-1, Exterior(2) 21-2-1 to 35-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.

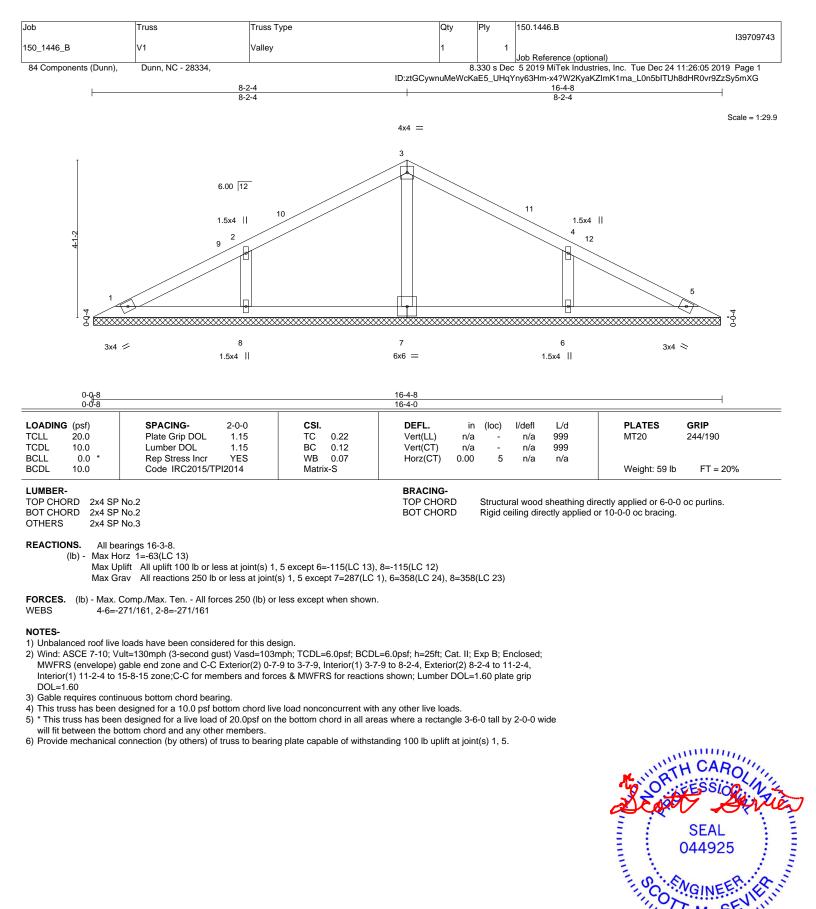
5) Gable requires continuous bottom chord bearing

- 6) Gable studs spaced at 2-0-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



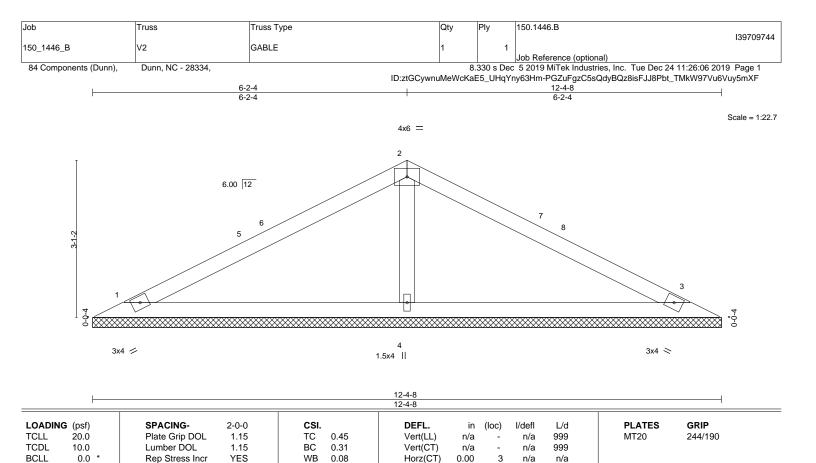




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

December 26,2019

818 Soundside Road Edenton, NC 27932



BRACING-TOP CHORD

BOT CHORD

## WEBS NOTES-

BCDL

LUMBER-

OTHERS REACTIONS.

TOP CHORD

BOT CHORD

10.0

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

2-4=-321/127

Max Horz 1=-46(LC 17)

(lb/size)

Code IRC2015/TPI2014

Max Uplift 1=-41(LC 12), 3=-50(LC 13), 4=-23(LC 12) Max Grav 1=205(LC 23), 3=205(LC 24), 4=484(LC 1) FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

1=203/12-4-8, 3=203/12-4-8, 4=484/12-4-8

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-2-4, Exterior(2) 6-2-4 to 9-2-4, Interior(1) 9-2-4 to 11-8-15 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.

Matrix-S

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 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.



Weight: 40 lb

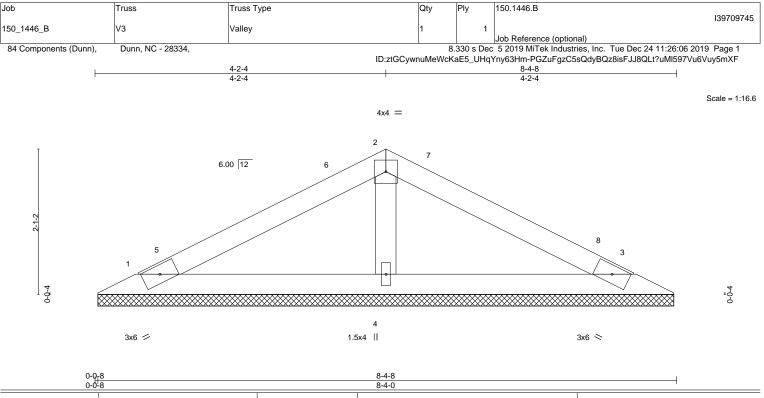
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

FT = 20%



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



	0-0-	-0			8-4-0						
LOADIN	G (psf)	SPACING- 2-0	D-0 CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	15 TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.	15 BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr Y	ES WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI201	4 Matr	ix-P						Weight: 26 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

```
LUMBER-
```

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

2x4 SP No.3

REACTIONS. (lb/size) 1=144/8-3-8, 3=144/8-3-8, 4=282/8-3-8 Max Horz 1=30(LC 12) Max Uplift 1=-33(LC 12), 3=-39(LC 13), 4=-1(LC 12)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed;

MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-2-4, Exterior(2) 4-2-4 to 7-2-4, Interior(1)

7-2-4 to 7-8-15 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.

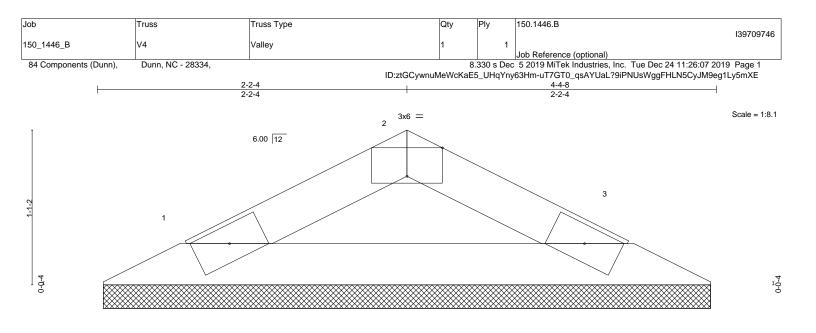
5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



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

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





3x6 ⋍

3x6 📚

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

Plate Offsets (X,Y) [	2:0-3-0,Edge]	1		
OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) n/a - n/a 999	MT20 244/190
CDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) n/a - n/a 999	
CLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
3CDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 12 lb FT = 20%

BOT CHORD

OP CHORD 2x4 SP No.3 BOT CHORD 2x4 SP No.3

REACTIONS. (lb/size) 1=125/4-3-8, 3=125/4-3-8 Max Horz 1=13(LC 16) Max Uplift 1=-15(LC 12), 3=-15(LC 13)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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

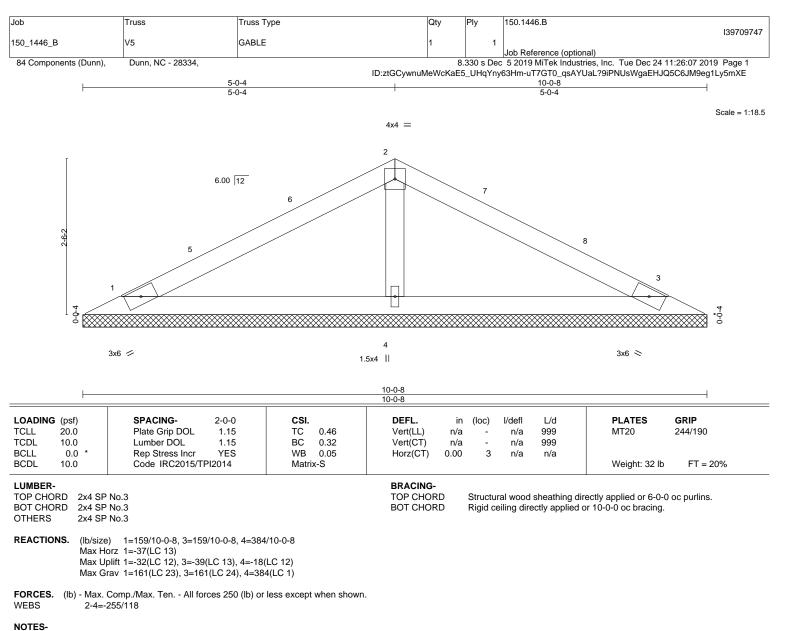
3) Gable requires continuous bottom chord bearing.

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

5) \* This truss has been designed for a live load of 20.0psf 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.







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

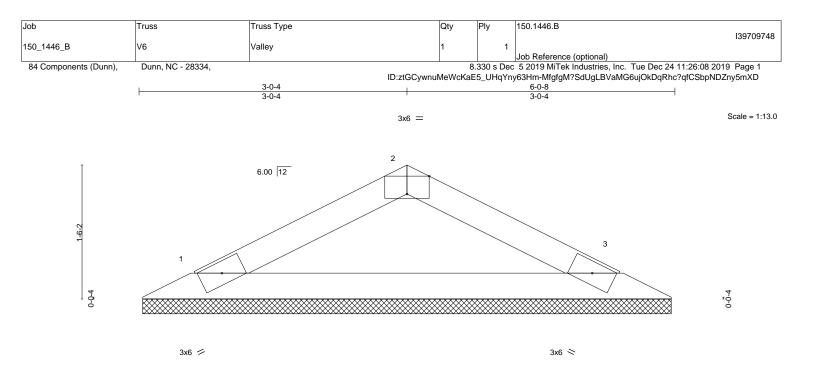
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 5-0-4, Exterior(2) 5-0-4 to 8-0-4, Interior(1) 8-0-4 to 9-4-15 zone;C-C for members and forces & 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 20.0psf 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.







	0-0 <u>-</u> 8 0-0-8		<u>6-0-8</u> 6-0-0						
Plate Offsets (X,Y)	[2:0-3-0,Edge]		000						
LOADING (psf)	SPACING- 2-0	-0-0 CSI.	DEFL	. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1	1.15 TC	0.17 Vert(	_L) n/a	-	n/a	999	MT20	244/190
TCDL 10.0		1.15 BC	0.49 Vert(	CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr Y	YES WB	0.00 Horz	CT) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI201	14 Matrix	(-P					Weight: 17 lb	FT = 20%

TOP CHORD

BOT CHORD

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

REACTIONS. (lb/size) 1=191/5-11-8, 3=191/5-11-8 Max Horz 1=-20(LC 13) Max Uplift 1=-23(LC 12), 3=-23(LC 13)

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

## NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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.

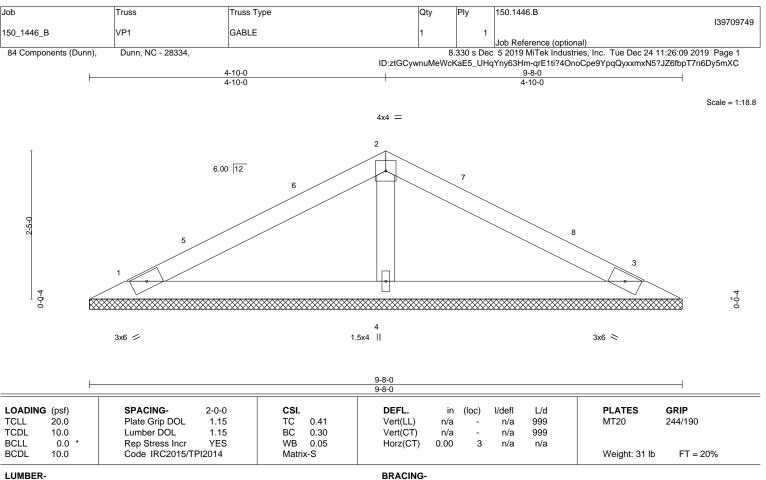
5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



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

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





LUMBER-

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

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. 1=152/9-8-0, 3=152/9-8-0, 4=368/9-8-0 (lb/size) Max Horz 1=35(LC 12) Max Uplift 1=-31(LC 12), 3=-37(LC 13), 4=-18(LC 12) Max Grav 1=154(LC 23), 3=154(LC 24), 4=368(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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-10-0, Exterior(2) 4-10-0 to 7-10-0, Interior(1) 7-10-0 to 9-0-7 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

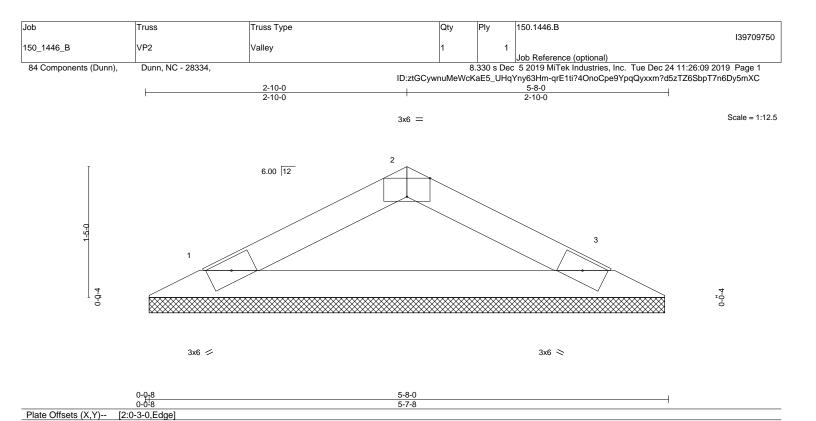
3) Gable requires continuous bottom chord bearing.

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

5) \* This truss has been designed for a live load of 20.0psf 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.







DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

n/a

n/a

0.00

l/defl

n/a

n/a

n/a

3

L/d

999

999

n/a

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

#### NOTES-

LOADING (psf)

20.0

10.0

0.0

10.0

TOP CHORD 2x4 SP No.3

2x4 SP No.3

TCLL

TCDL

BCLL

BCDL

LUMBER-

BOT CHORD

REACTIONS.

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

(lb/size) 1=176/5-7-0, 3=176/5-7-0 Max Horz 1=-18(LC 13)

Max Uplift 1=-21(LC 12), 3=-21(LC 13)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

тс

BC

WB

Matrix-P

0.14

0.42

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.

2-0-0

1.15

1.15

YES

5) \* This truss has been designed for a live load of 20.0psf 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.



PLATES

Weight: 16 lb

MT20

Structural wood sheathing directly applied or 5-8-0 oc purlins.

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

GRIP

244/190

FT = 20%



