Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483 843 209-5784, Fax (866)-213-4614

The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 24510 JOB: 20-5368-R01 JOB NAME: LOT 1168 CARRIAGE CIRCLE Wind Code: 37 Wind Speed: Vult= 130mph Exposure Category: B Mean Roof Height (feet): 23

22 Truss Design(s)

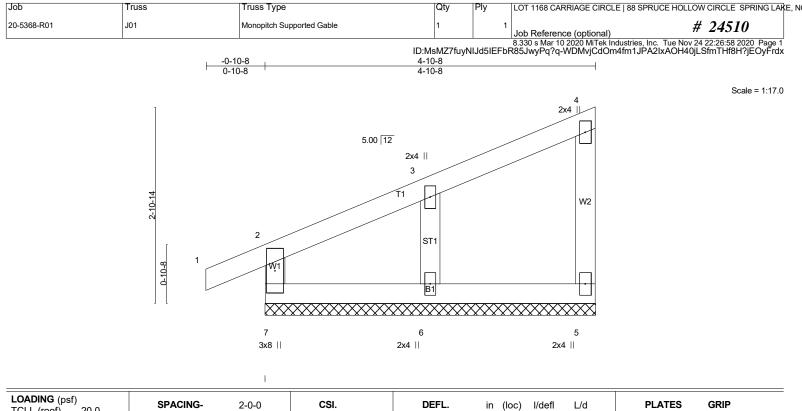
Trusses:

J01, J02, PB01, PB02, R01, R02, R03, R03A, R04, R05, R06, R07, R08, R09, R10, R11, VT01, VT02, VT03, VT04, VT05, VT06



Warning !--- Verify design parameters and read notes before use.

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for*



LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.12 BC 0.08 WB 0.05 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 1 -0.00 1 0.00 5	l/defl n/r n/r n/a	L/d 180 80 n/a	PLATES MT20 Weight: 23 lb	GRIP 244/190 FT = 0%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3			BRACING- TOP CHORD BOT CHORD	end vertical Rigid ceiling MiTek reco	s. directly	applied or single that Stabi	tly applied or 4-10-8 10-0-0 oc bracing. lizers and required ci	oss bracing
				be installe Installation	0	truss erecti	on, in accordance wi	th Stabilizer

REACTIONS. (lb/size) 7=151/4-10-8 (min. 0-1-8), 5=76/4-10-8 (min. 0-1-8), 6=200/4-10-8 (min. 0-1-8) Max Horz 7=74(LC 14) Max Uplift7=-7(LC 10), 5=-18(LC 14), 6=-80(LC 14)

Max Grav 7=219(LC 21), 5=106(LC 21), 6=274(LC 21)

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

NOTES-(13-14)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
- non-concurrent with other live loads. Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 10) * 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 1-0-0 wide will the CAROUS
 11) Provide mechanical connection (by others) of true tails 23/202 PROFESS/

SEAL

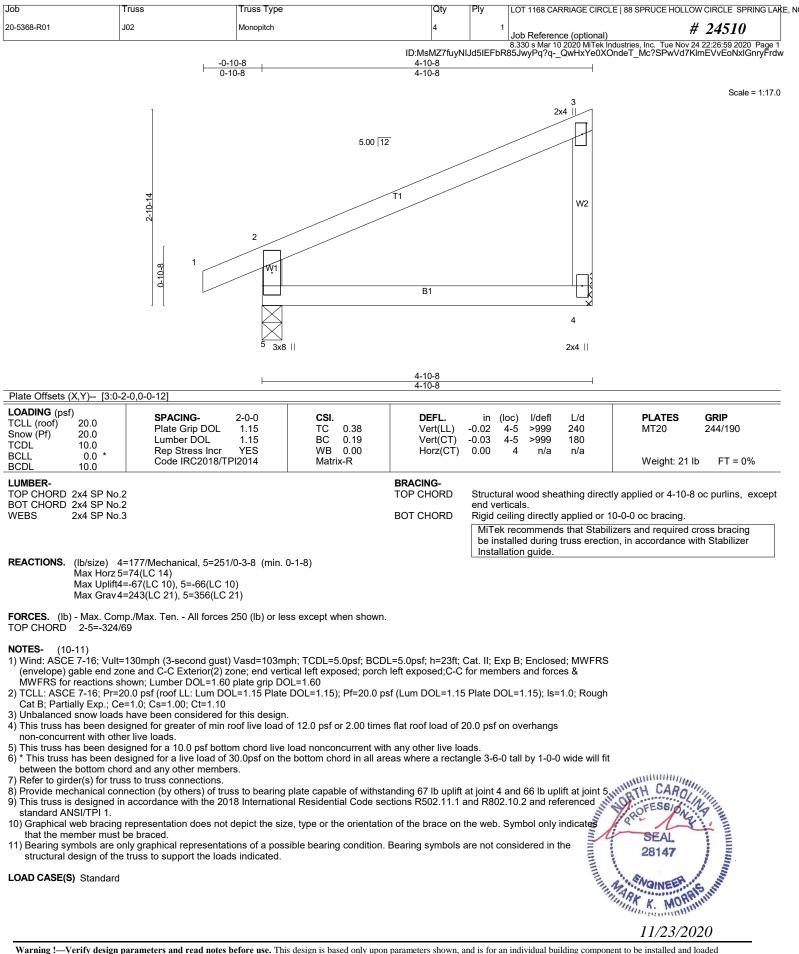
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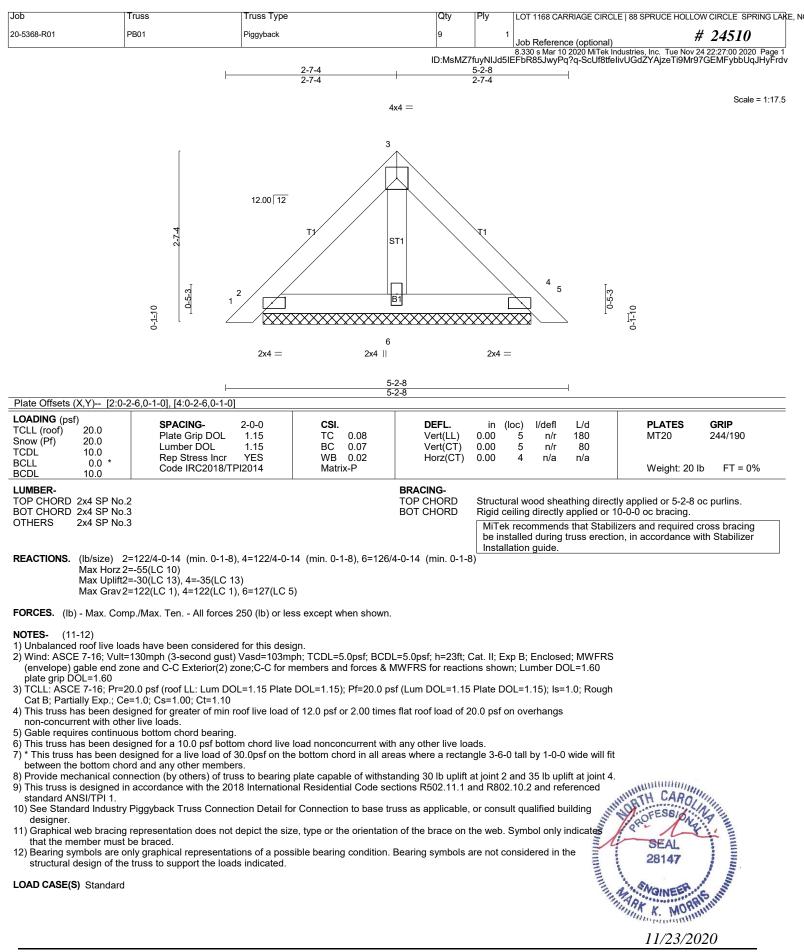
VOINER A. MORAL

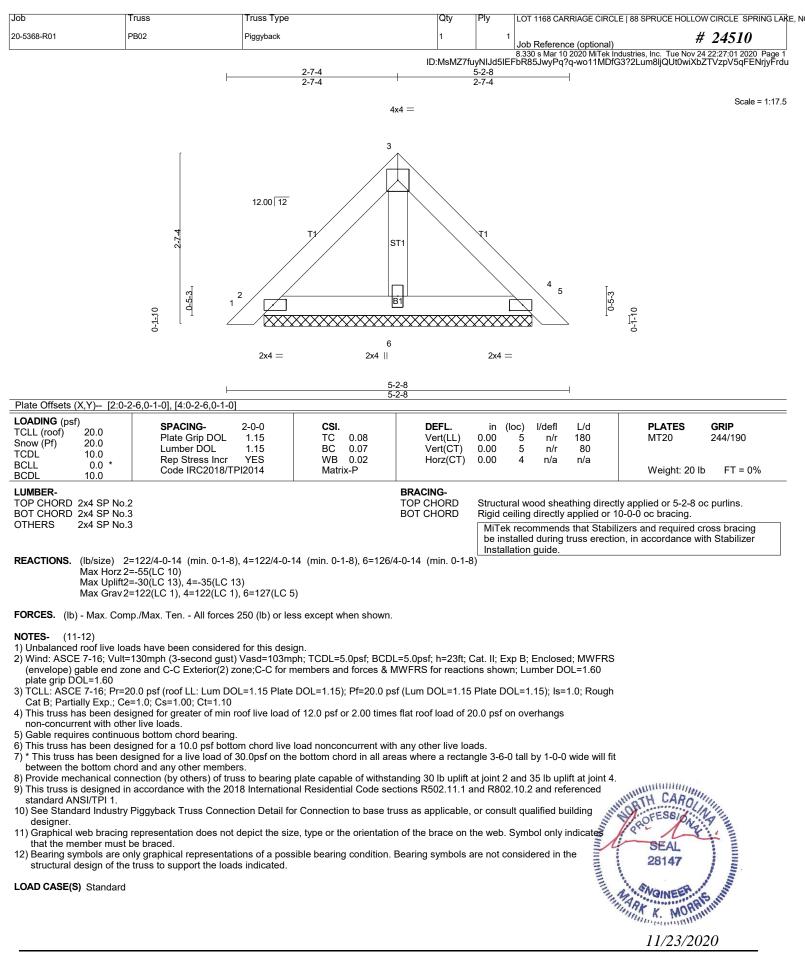
11/23/2020

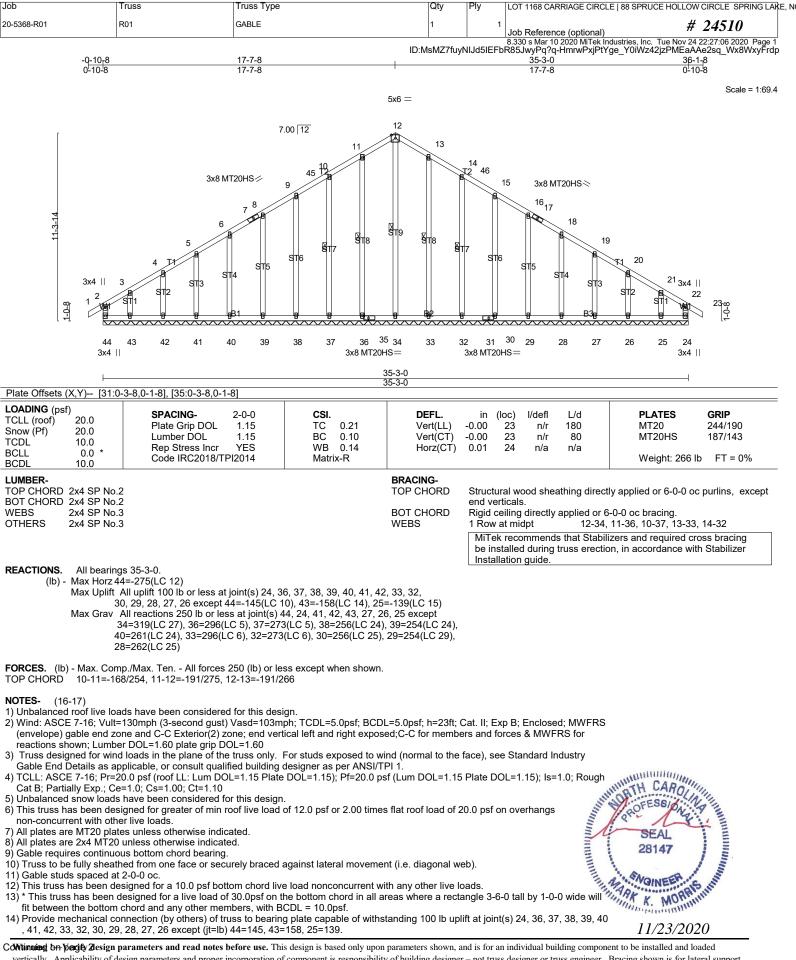
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 7, 18 lb uplift at joint 5 and 80 lb uplift at joint 6.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates Annunderstand that the member must be braced.
- 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard









vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 1168 CARRIAGE CIRCLE 88 S	PRUCE HOLLOW CIRCLE SPRING LAKE, I
20-5368-R01	R01	GABLE	1		1 Job Reference (optional)	# 24510
					8 330 c Mar 10 2020 MiTok Industrias	Inc. Tuo Nov 24 22:27:07 2020 Page 2

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NOTES- (16-17)

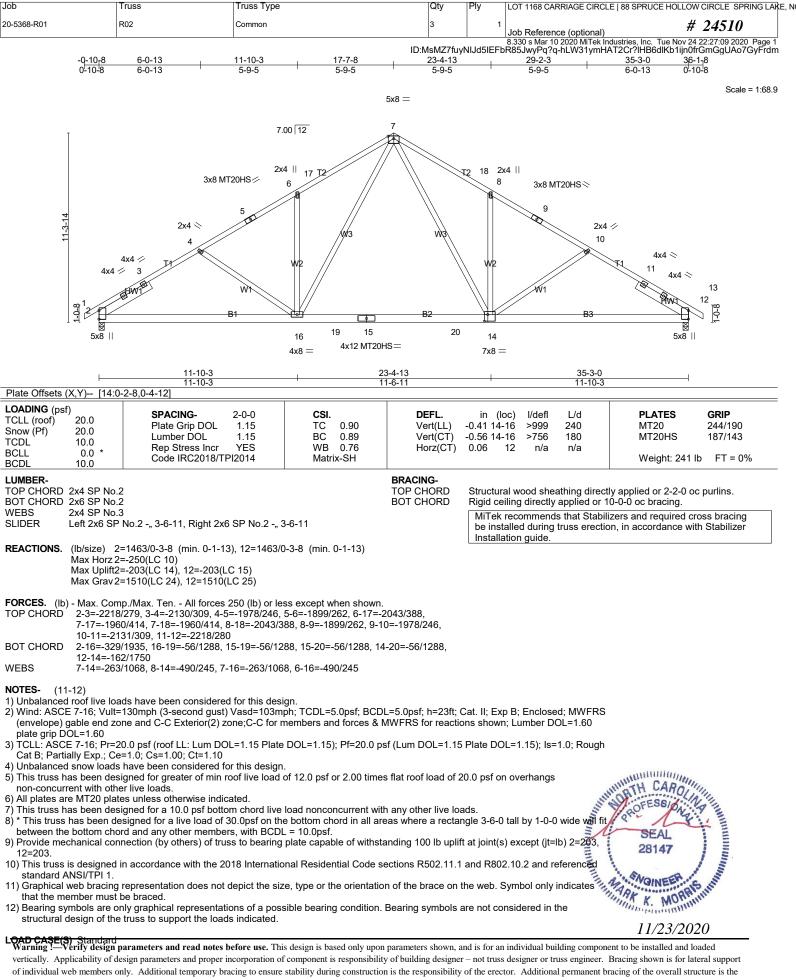
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

16) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced. 17) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

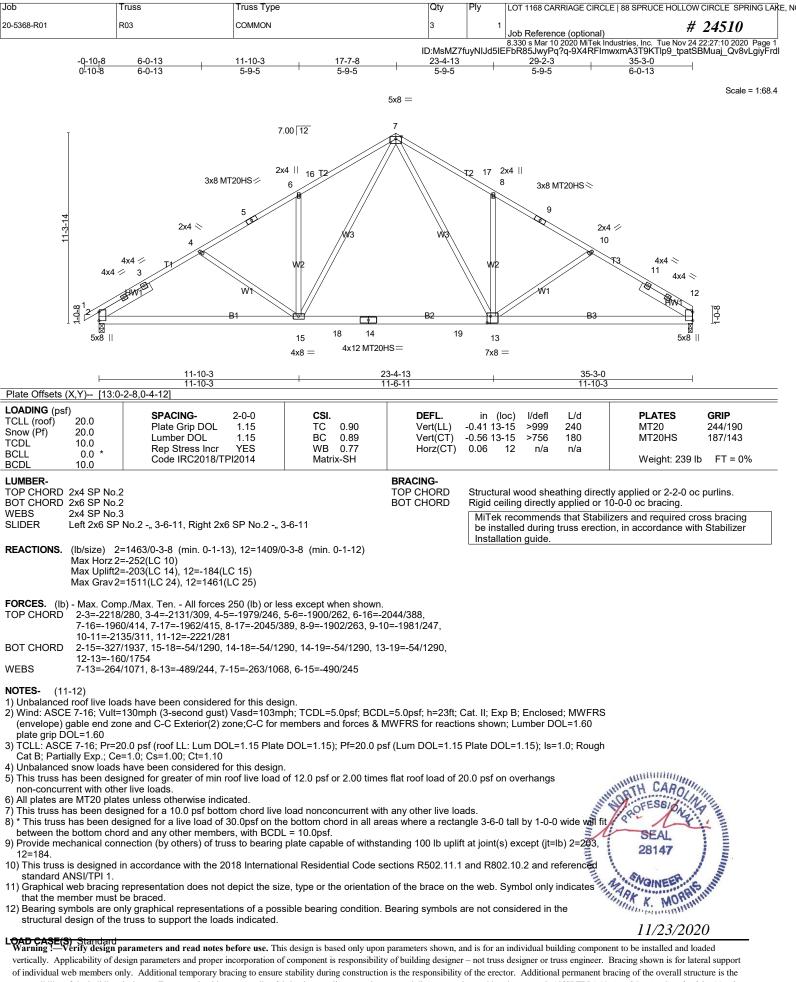
LOAD CASE(S) Standard



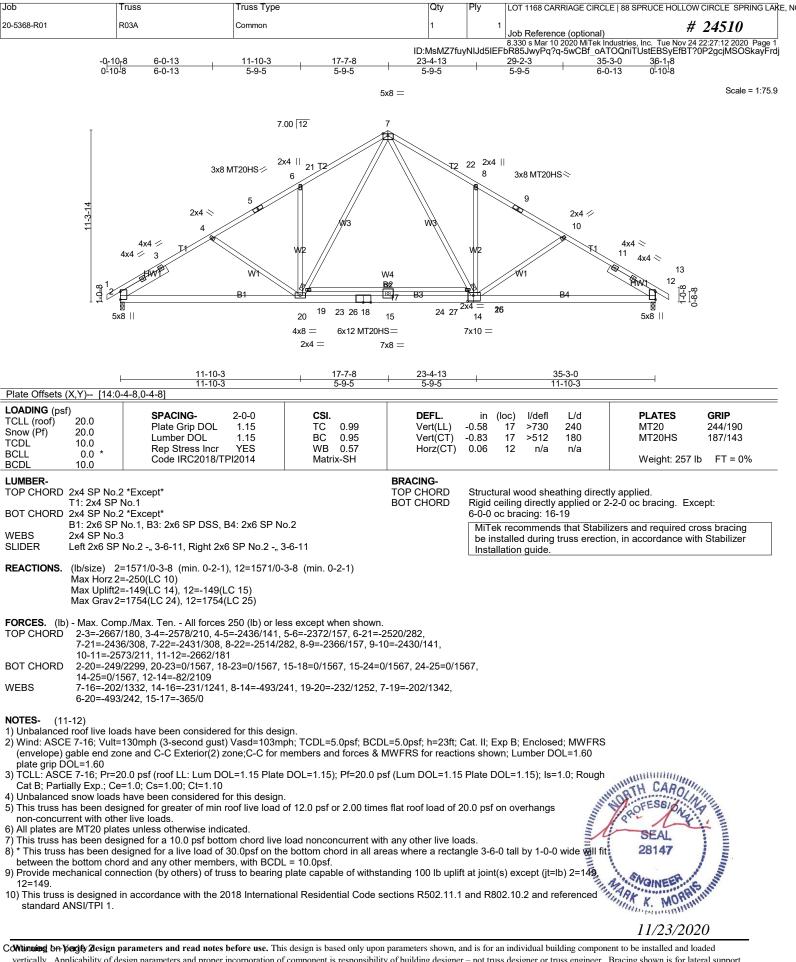
11/23/2020



responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



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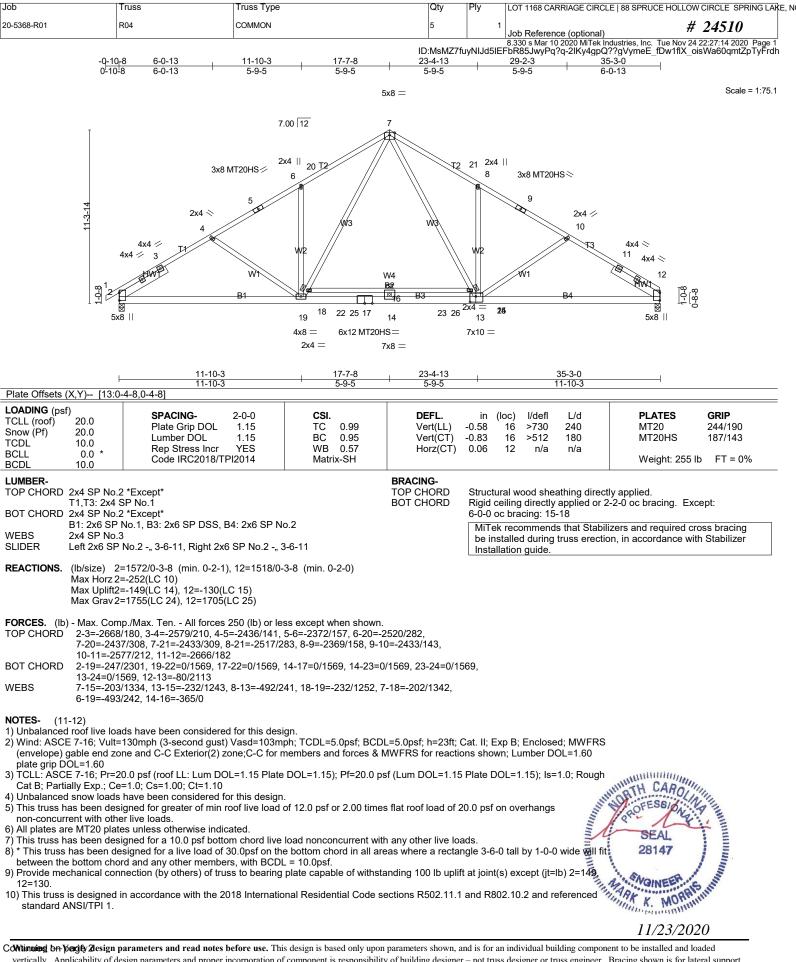
Job	Truss	Truss Type	Qty	Ply	LOT 1168 CARRIAGE CIRCLE 88 SPRUCE HC	DLLOW CIRCLE SPRING LAKE, N
20-5368-R01	R03A	Common	1	1	Job Reference (optional)	# 24510
					8 330 s Mar 10 2020 MiTek Industries Inc. Tue N	lov 24 22:27:13 2020 Page 2

8.330 s Mar 10 2020 Mi Lek Industries, Inc. Tue Nov 24 22:27:13 2020 Page 2 ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-Z6mZtKpoEhYeKc32QyihVRCMCOMen7ssb680G1yFrdi

Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard





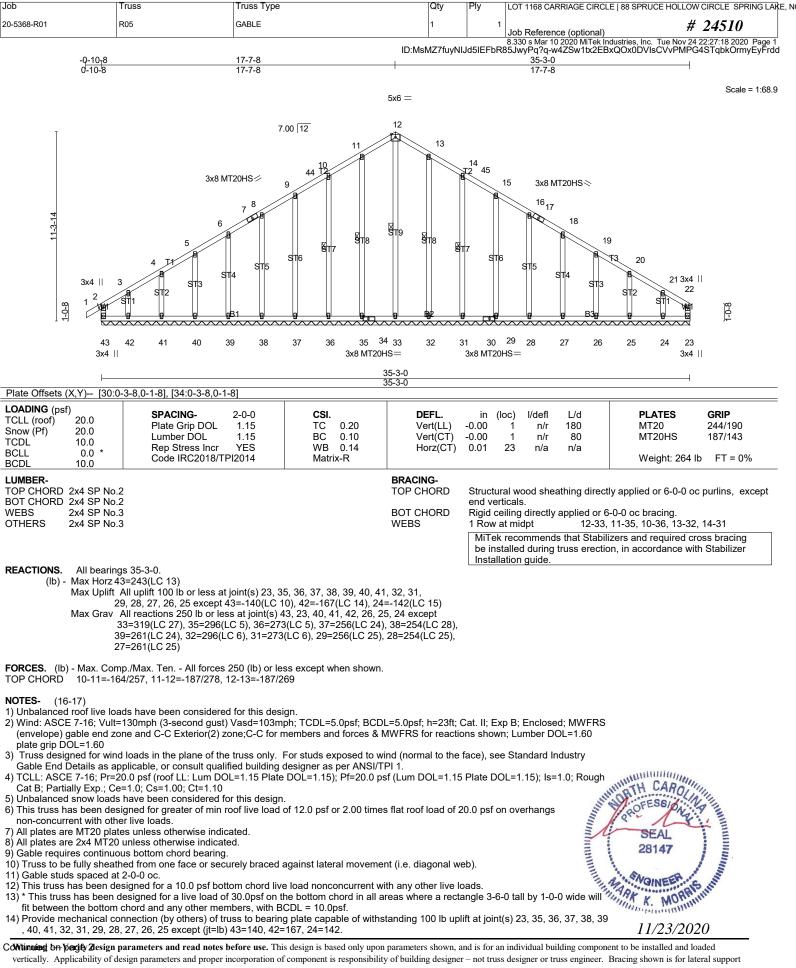
Job	Truss	Truss Type	Qty	Ply	LOT 1168 CARRIAGE CIRCLE 88 SPRUCE HOLLOW CIRCLE SPRING L	AKE, N
20-5368-R01	R04	COMMON	5	1	Job Reference (optional) # 24510	
					8 330 s Mar 10 2020 MiTek Industries Inc. Tuo Nev 24 22:27:15 2020 Page	2

8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:27:15 2020 Page 2 ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-WVuKI0q2mJoMZwDRYMk9asHikC25F1L92Qd6LvyFrdg

Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
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LOAD CASE(S) Standard





of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

•	lob	Truss	Truss Type	Qty	Ply	LOT 1168 CARRIAGE CIRCLE 88 SPRUCE HO	LLOW CIRCLE SPRING LAK	E, N0
2	20-5368-R01	R05	GABLE	1	1	Job Reference (optional)	# 24510	
			ID:N	/IsMZ7fuy		8.330 s Mar 10 2020 MiTek Industries, Inc. Tue N bR85JwyPq?q-OG7r8NtZpXJn2YWCnCp5ki		

NOTES- (16-17)

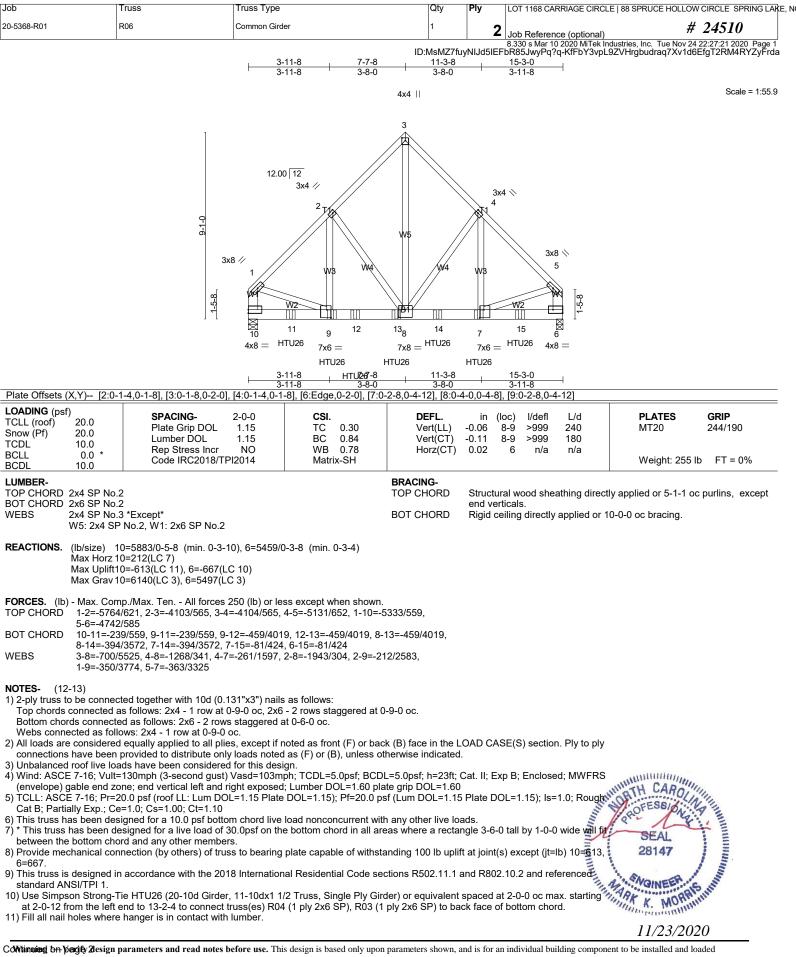
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

16) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced. 17) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



11/23/2020



Job	Truss	Truss Type	Qty	Ply	LOT 1168 CARRIAGE CIRCLE 88 SPRU	CE HOLLOW CIRCLE SPRING LAKE
20-5368-R01	R06	Common Girder	1	2	Job Reference (optional)	# 24510
					8 330 c Mar 10 2020 MiTok Industrias Inc.	Tuo Nov 24 22:27:21 2020 Page 2

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12) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced. 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

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

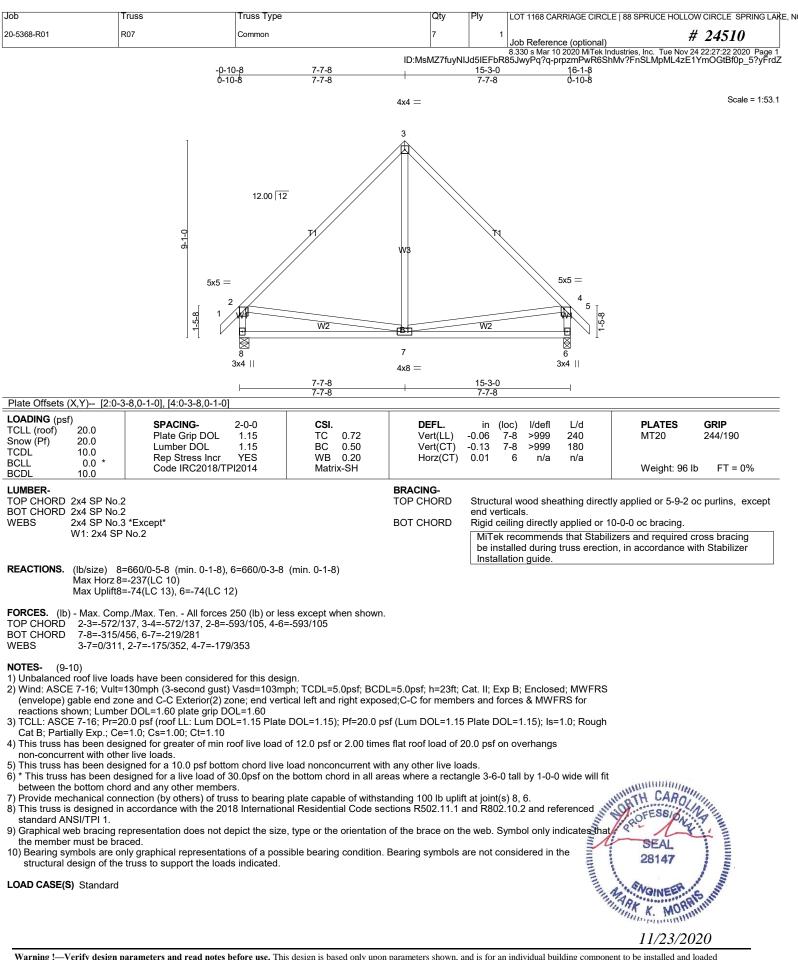
Uniform Loads (plf)

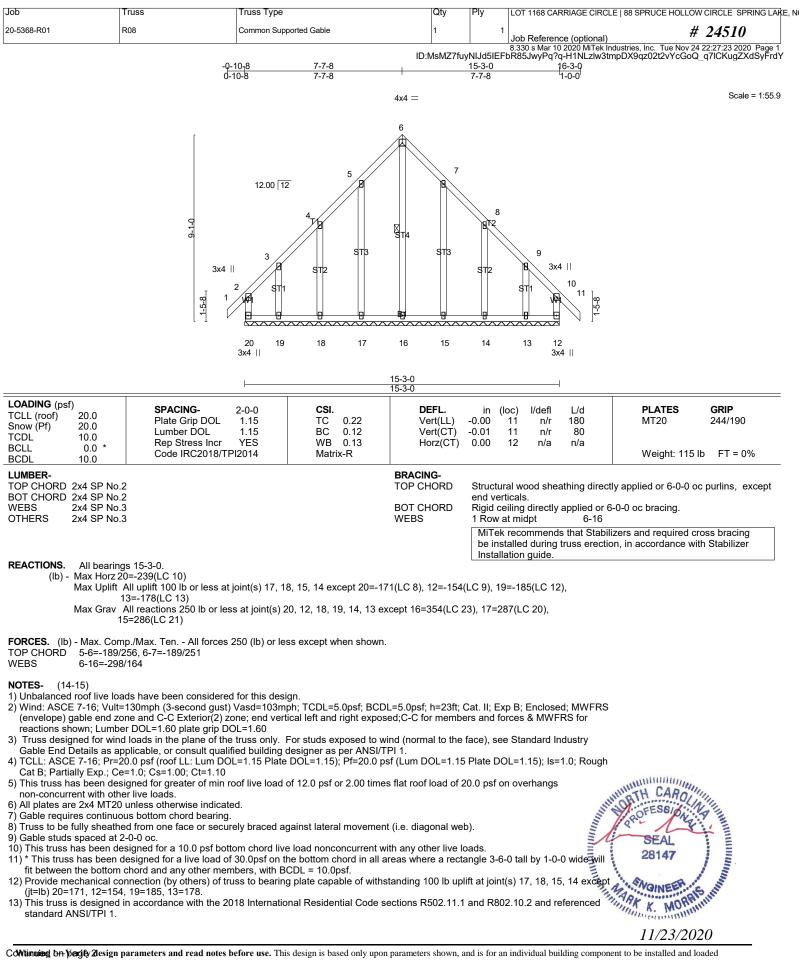
Vert: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb) Vert: 7=-1389(B) 9=-1498(B) 11=-1498(B) 12=-1498(B) 13=-1498(B) 14=-1389(B) 15=-1389(B)



11/23/2020





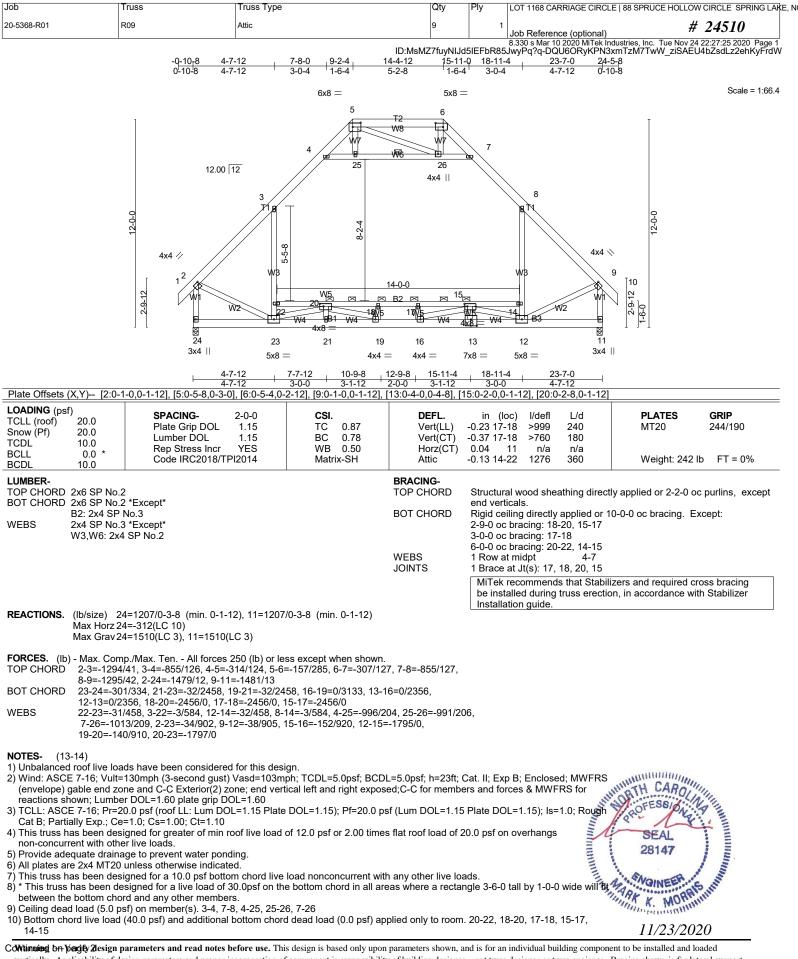
Job	Truss	Truss Type	Qty	Ply	LOT 1168 CARRIAGE CIRCLE 88 SPRUCE HOLLOW CIRCLE SPRING LAKE, NO
20-5368-R01	R08	Common Supported Gable	1	1	Job Reference (optional) # 24510
					8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:27:24 2020 Page 2

ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-IEwkB5xie4x48JP9aIPHRm9RYqJ3sCSU7KI59uyFrdX

14) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
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LOAD CASE(S) Standard





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Job	Truss	Truss Type	Qty	Ply	LOT 1168 CARRIAGE CIRCLE 88 SF	RUCE HOLLOW CIRCLE SPRING LAKE
20-5368-R01	R09	Attic	9		1 Job Reference (optional)	# 24510
					9 220 a Mar 10 2020 MiTak Industrias	Inc. Tue Neur 04 00:07:06 0000 Dame 0

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NOTES- (13-14)

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

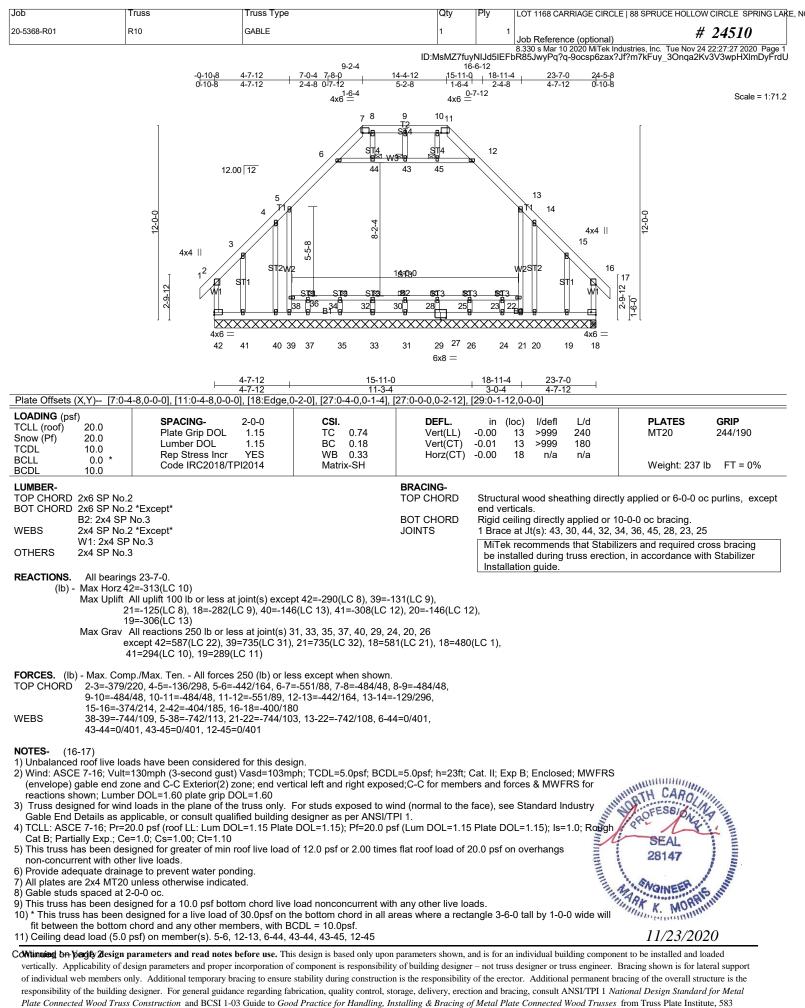
12) Attic room checked for L/360 deflection.

13) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced. 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



11/23/2020



Prime Connectea wood Truss Construction and BCSI 1-05 Guide to Good Practice for Handling, Installing & D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 1168 CARRIAGE CIRCLE 88 SPRUCE HOLLOW CIRC	LE SPRING LAKE, N
20-5368-R01	R10	GABLE	1	1	Job Reference (optional) # 24	510
		Ι):MsMZ7f		8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:27 FbR85JwyPq?q-d?AE0S_CilRWdwixpbTDccK_KRg8c	

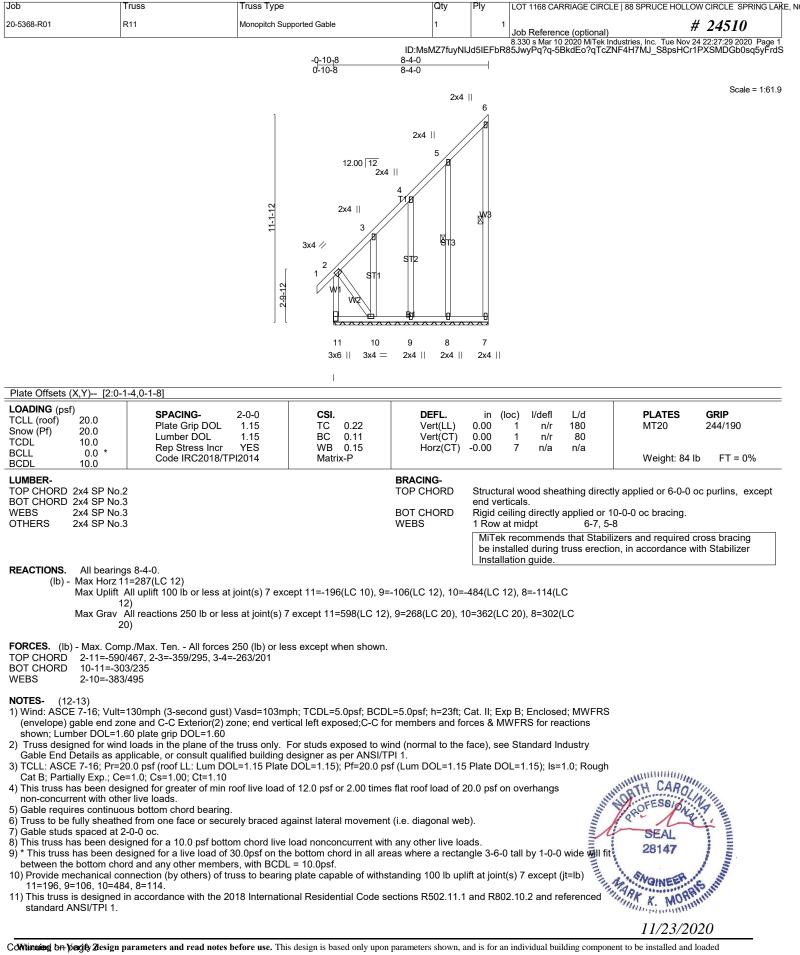
NOTES- (16-17)

- 12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 36-38, 34-36, 32-34, 30-32, 28-30, 25-28, 23-25, 22-23 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 290 lb uplift at joint 42, 131 lb uplift at joint 39, 125 lb uplift at joint 21, 282 lb uplift
- at joint 18, 146 lb uplift at joint 40, 308 lb uplift at joint 41, 146 lb uplift at joint 20 and 306 lb uplift at joint 19.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Attic room checked for L/360 deflection.
- 16) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced. 17) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



11/23/2020



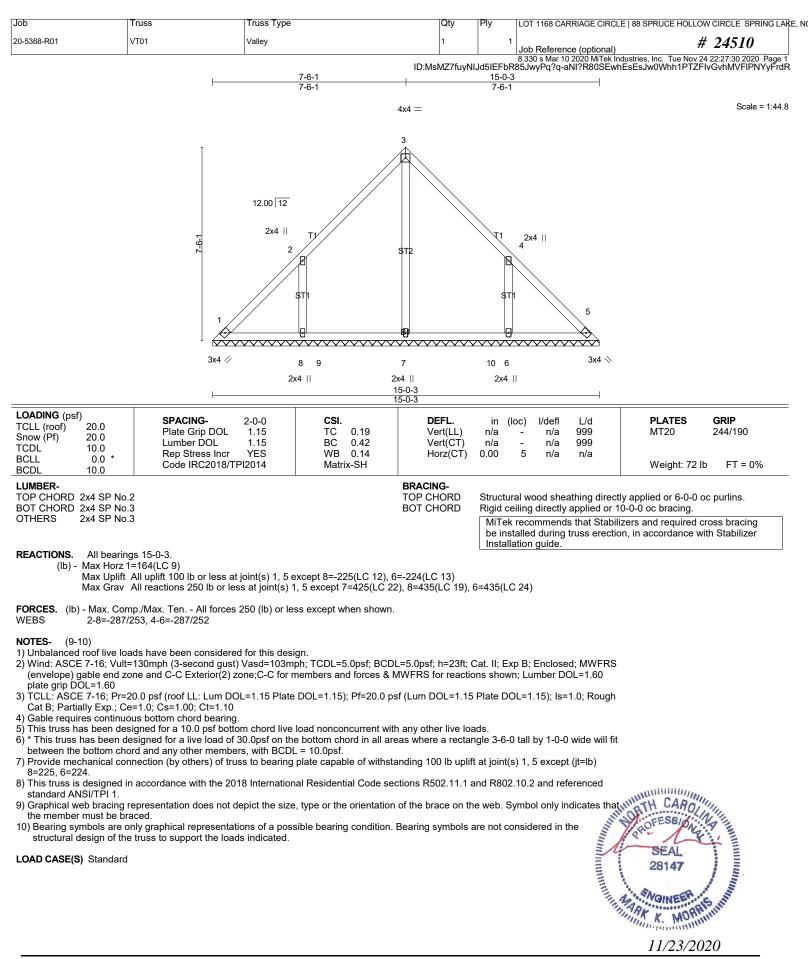
Job	Truss	Truss Type	Qty	Ply	LOT 1168 CARRIAGE CIRCLE 88 S	PRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5368-R01	R11	Monopitch Supported Gable	1	1	1 Job Reference (optional)	# 24510
					8 330 s Mar 10 2020 MiTek Industries	Inc. Tue Nov 24 22:27:29 2020 Page 2

8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:27:29 2020 Page 2 ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-5BkdEo?qTcZNF4H7MJ_S8psHCr1PXSMDGb0sq5yFrdS

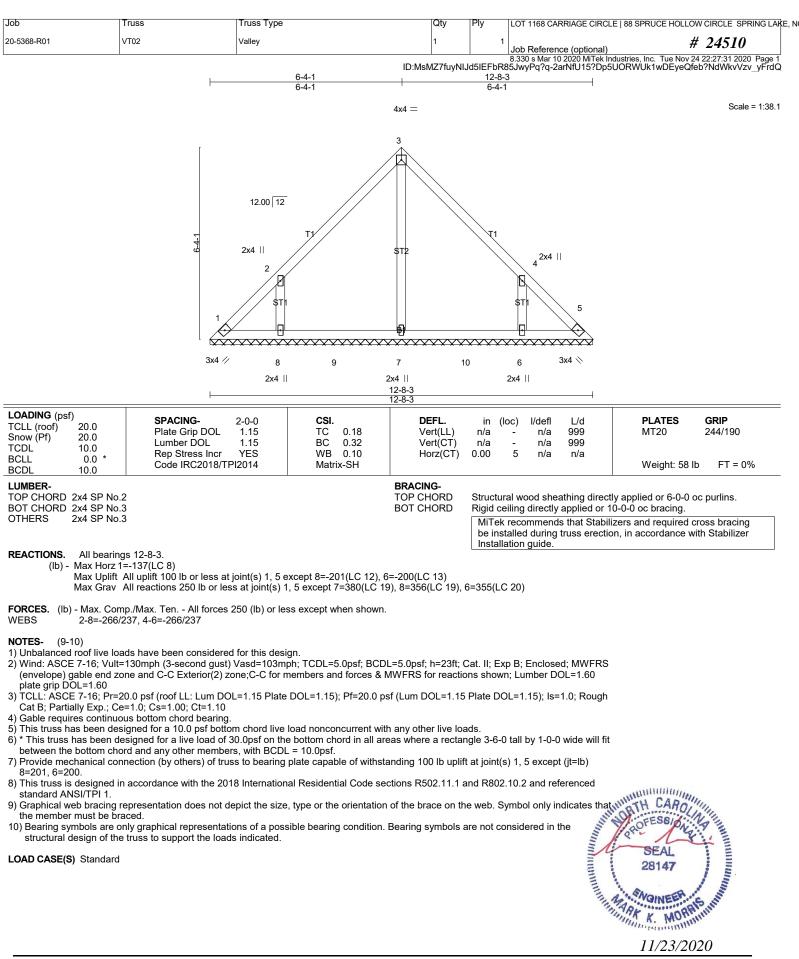
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LOAD CASE(S) Standard

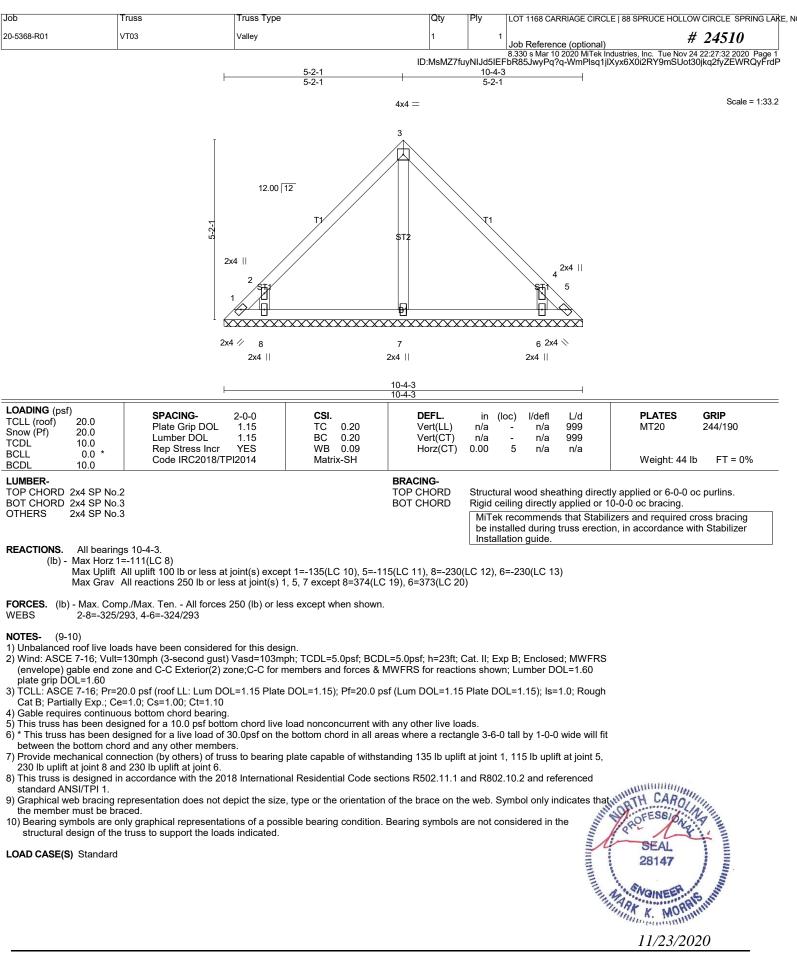


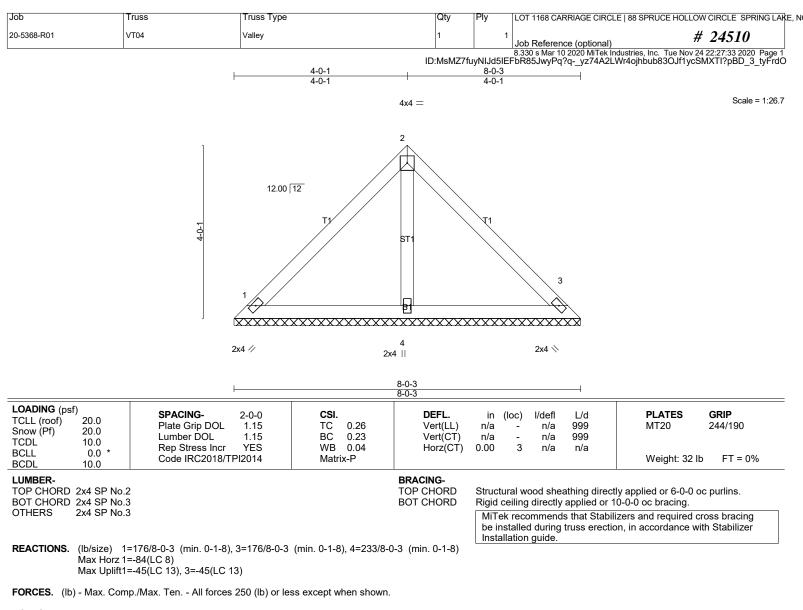


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11/23/2020



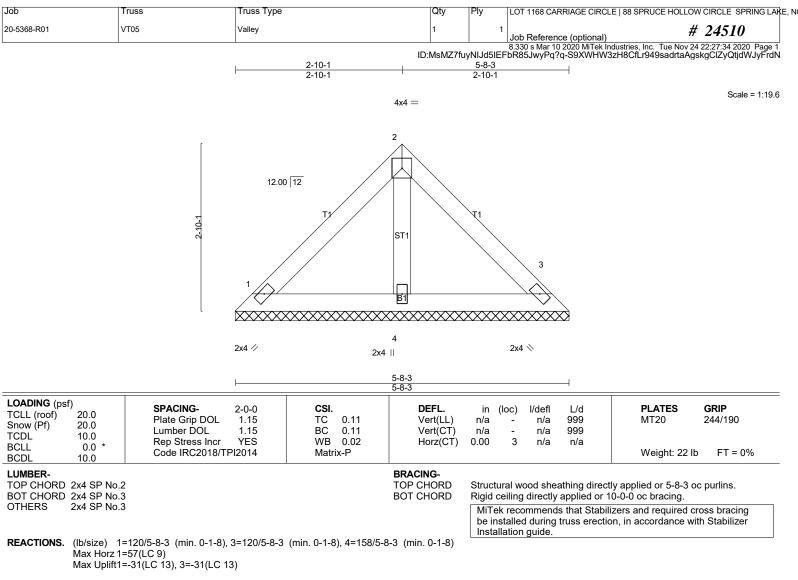


NOTES- (9-10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1 and 45 lb uplift at joint 3. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced
- standard ANSI/TPI 1. 9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that
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LOAD CASE(S) Standard





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

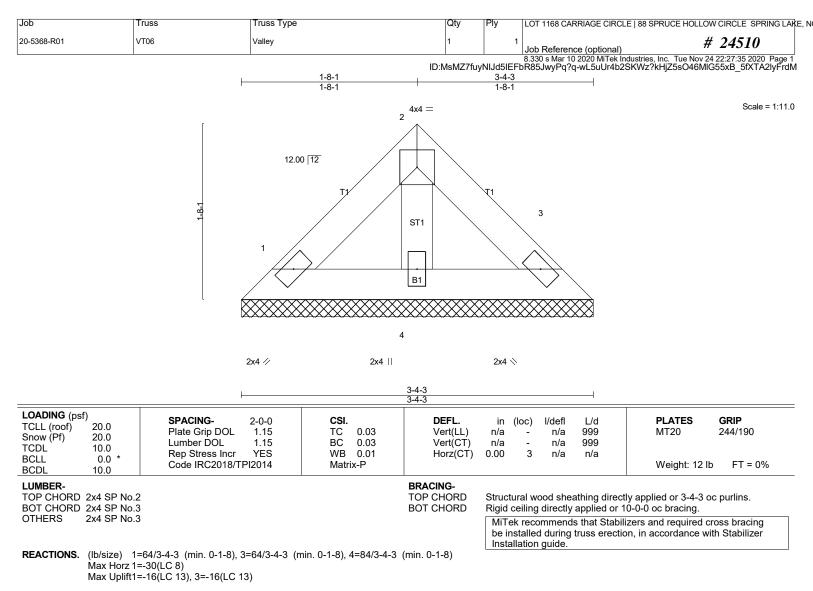
NOTES- (9-10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1 and 31 lb uplift at joint 3. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced
- standard ANSI/TPI 1.
- 9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
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LOAD CASE(S) Standard



11/23/2020



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

NOTES- (9-10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1 and 16 lb uplift at joint 3. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced
- standard ANSI/TPI 1. 9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that
- the member must be braced.
- 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

