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.

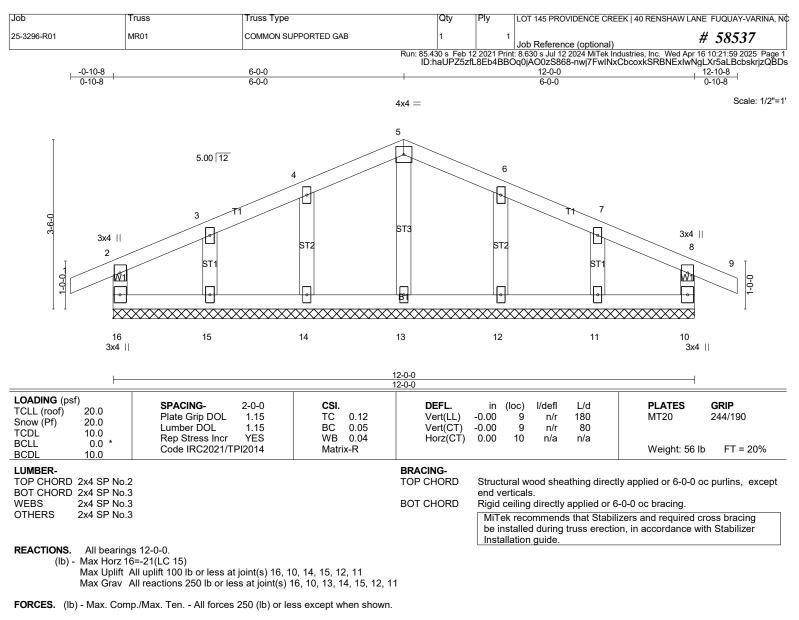
AST #: 58537 JOB: 25-3296-R01 JOB NAME: LOT 145 PROVIDENCE CREEK Wind Code: ASCE7-16 Wind Speed: Vult= 120mph Exposure Category: B Mean Roof Height (feet): 35 These truss designs comply with IRC 2015 as well as IRC 2018. 19 Truss Design(s)

Trusses: MR01, MR02, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, VT01,



My license renewal date for the state of North Carolina is 12/31/2025

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



NOTES-(14)

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 4-0-0, Corner(3R) 4-0-0 to 8-0-0, Corner(3E) 8-0-0 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=1.60 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) 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

5) Unbalanced snow loads have been considered for this design.

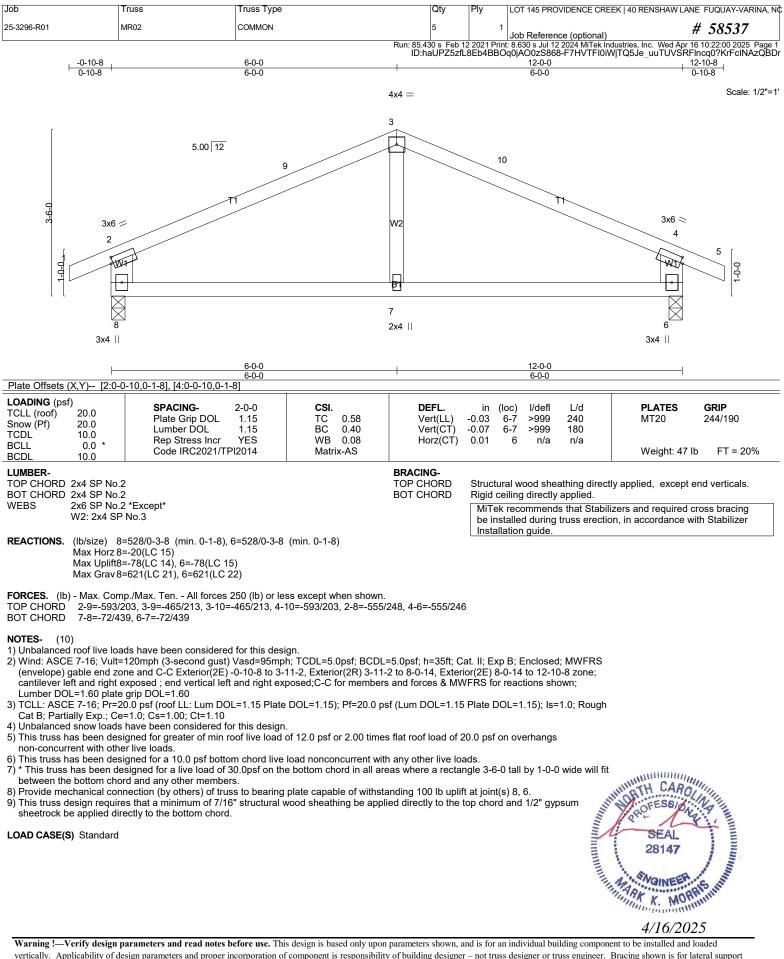
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

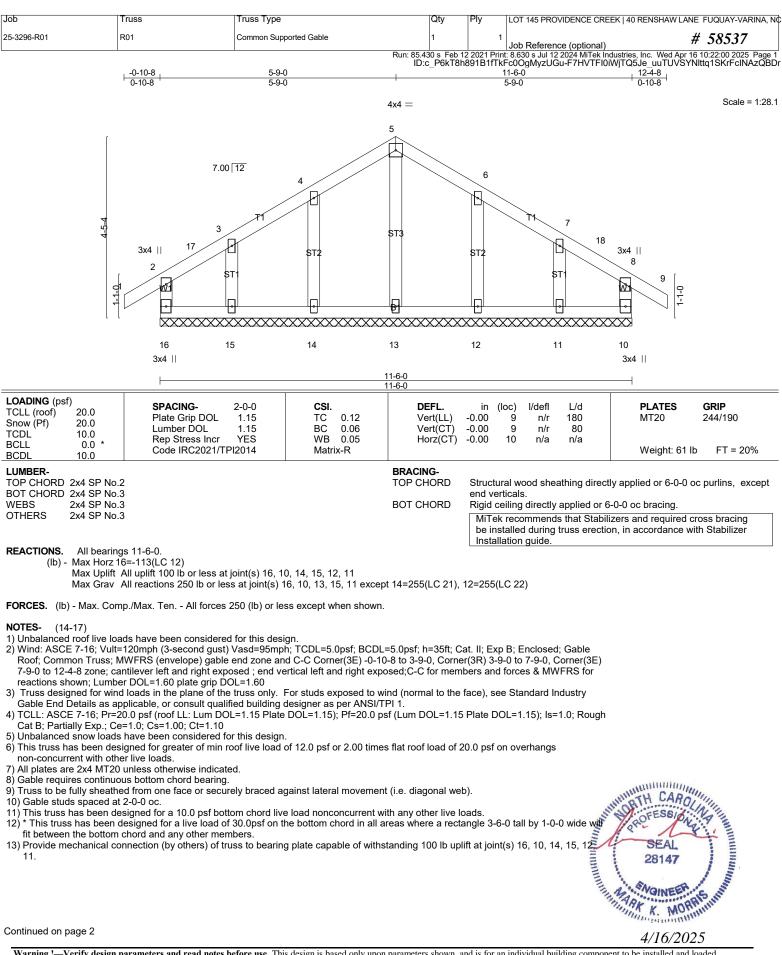
- All plates are 2x4 MT20 unless otherwise indicated.

- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 12) * 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 with the bottom chord and any other members.
 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 the member 11.

LOAD CASE(S) Standard







Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK 40 RENSHAW LANE	FUQUAY-VARINA, NC
25-3296-R01	R01	Common Supported Gable	1	1	Job Reference (optional) #	58537
Run: 85.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:22:00 2025 Page 2						

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member member back that the truther that the truther to a particle and the truther to a particle and

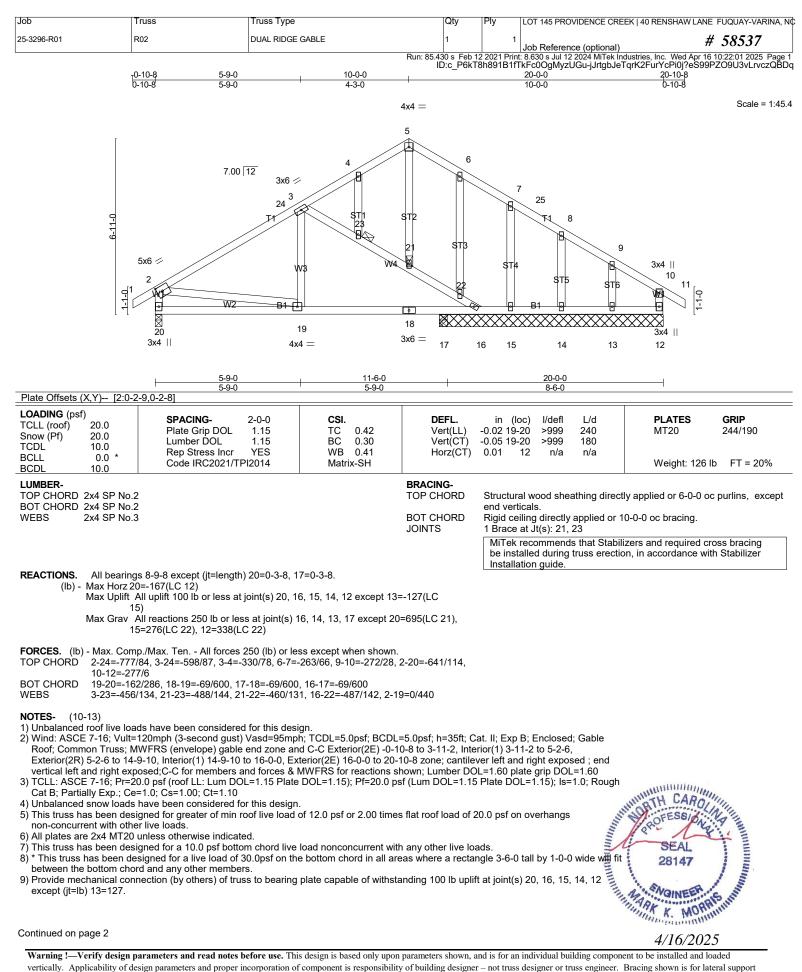
15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK 40 REM	NSHAW LANE FUQUAY-VARINA, NC
25-3296-R01	R02	DUAL RIDGE GABLE	1	1	Job Reference (optional)	# 58537
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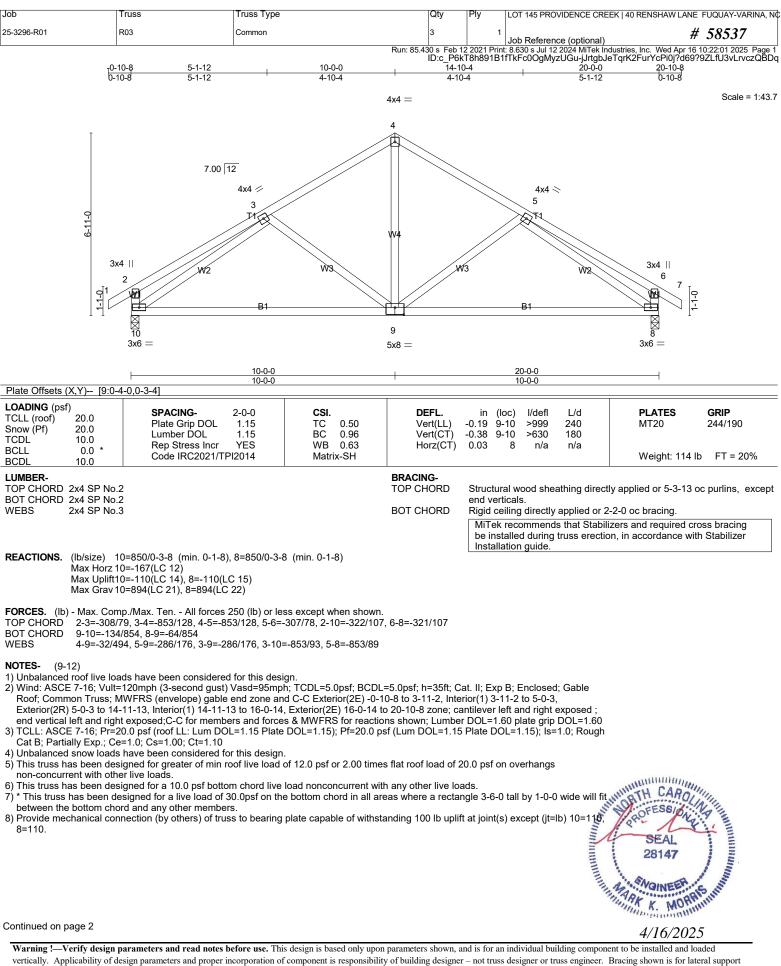
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LOAD CASE(S) Standard





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'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK 40 RE	NSHAW LANE FUQUAY-VARINA, NC
25-3296-R01	R03	Common	3	1	Job Reference (optional)	# 58537
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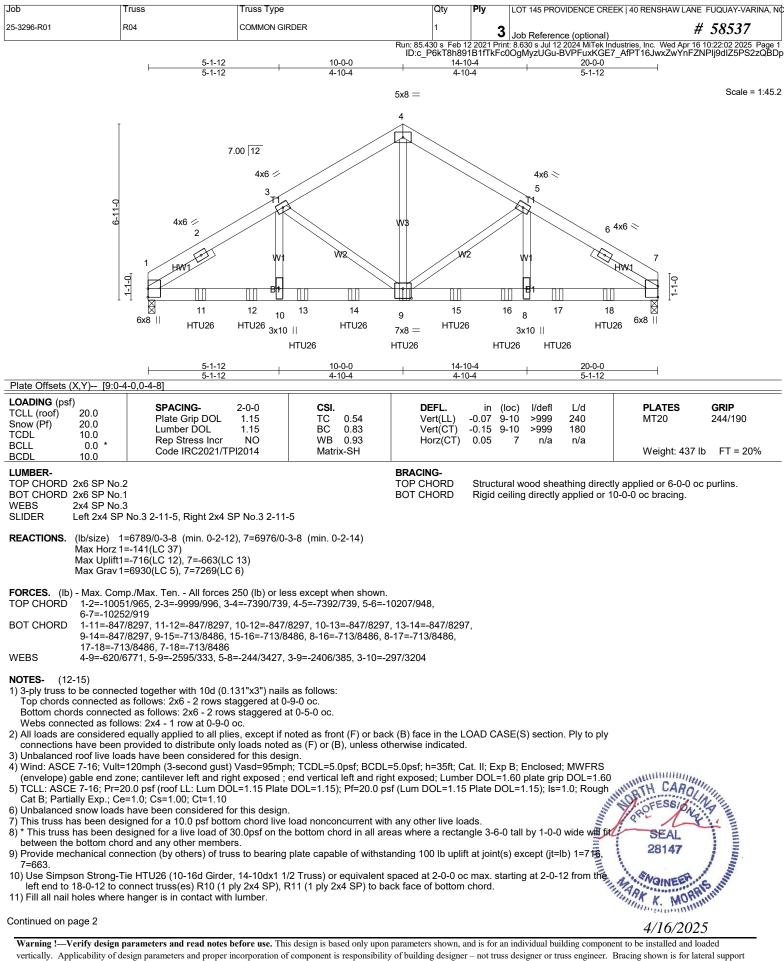
ID:c_P6KT8h891B1fTkFc0OgMzUGu-JitgbJeTqrk2FurYcPi0j?d69?9ZLfU3vLrvczQBDq 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 10) Bearing symbols are not considered in the structural design of the truss to support the

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 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
 OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK 40 RENS	HAW LANE FUQUAY-VARINA, NC
25-3296-R01	R04	COMMON GIRDER	1	3	Job Reference (optional)	# 58537
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un: 85.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:22:02 2025 Page 2 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-BVPFuxKGE7_AfPT16JwxZwYnFZNPIj9dIZ5PS2zQBDp

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LOAD CASE(S) Standard

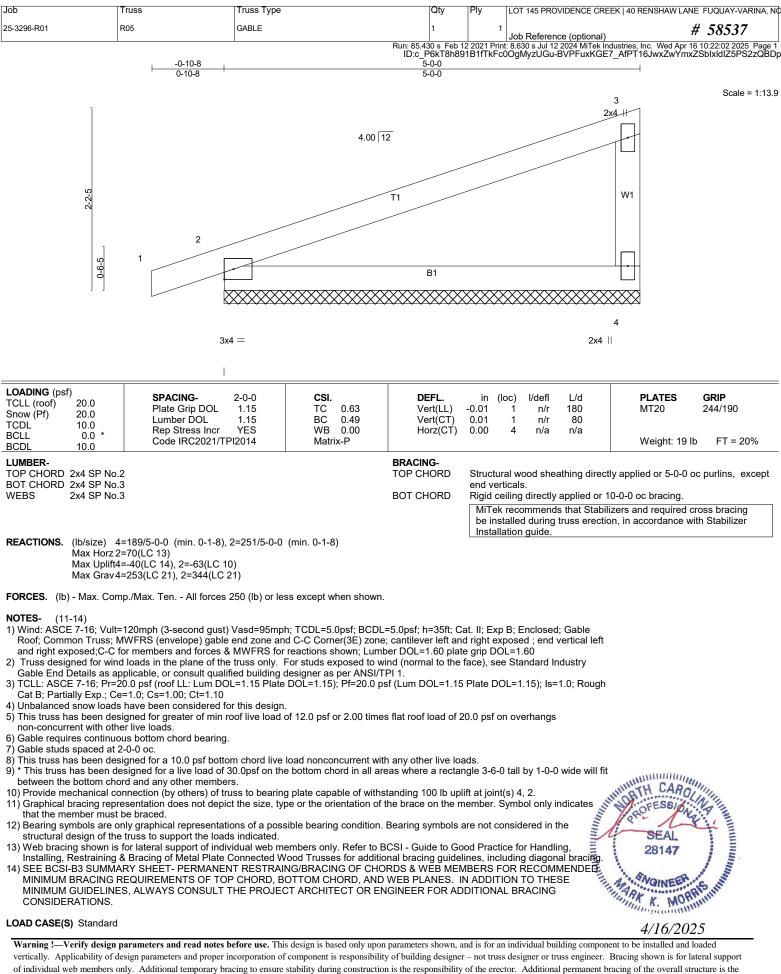
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-60, 4-7=-60, 1-7=-20

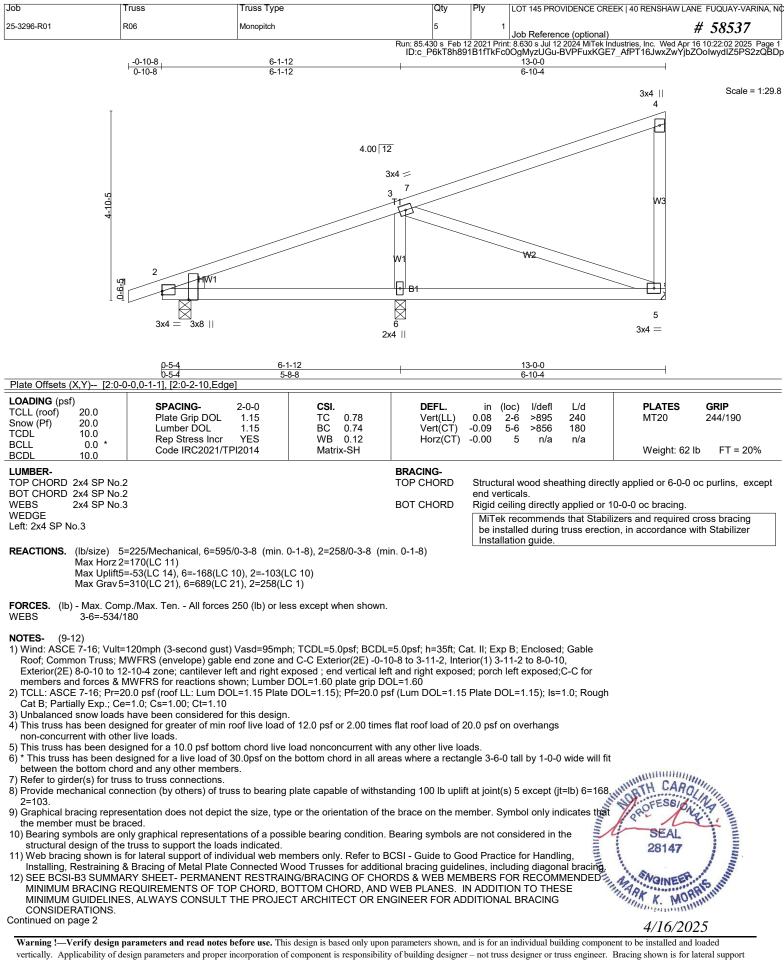
Concentrated Loads (lb)

Vert: 9=-1371(B) 11=-1286(B) 12=-1286(B) 13=-1371(B) 14=-1371(B) 15=-1371(B) 16=-1371(B) 17=-1371(B) 18=-1371(B)





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.



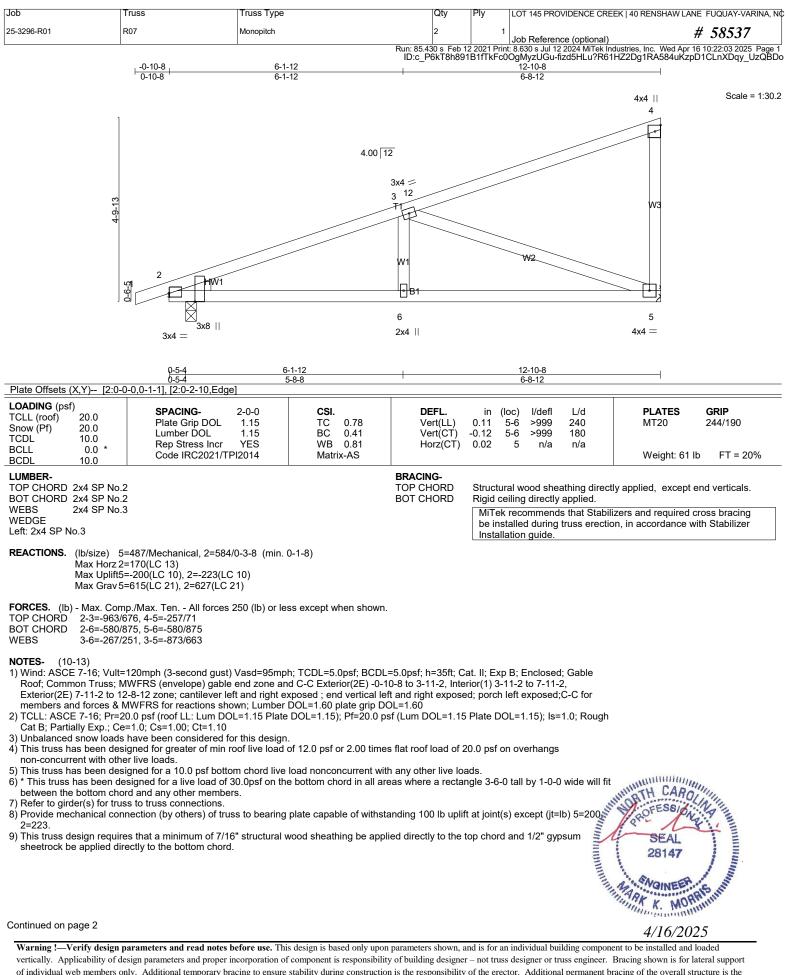
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Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK 40 RENSHAW LA	ANE FUQUAY-VARINA, NC
25-3296-R01	R06	Monopitch	5	1	Job Reference (optional)	# 58537

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LOAD CASE(S) Standard





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Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK 40 RENSH	AW LANE FUQUAY-VARINA, NC
25-3296-R01	R07	Monopitch	2	1	Job Reference (optional)	# 58537
Run: 85.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:22:03 2025 Page 2						

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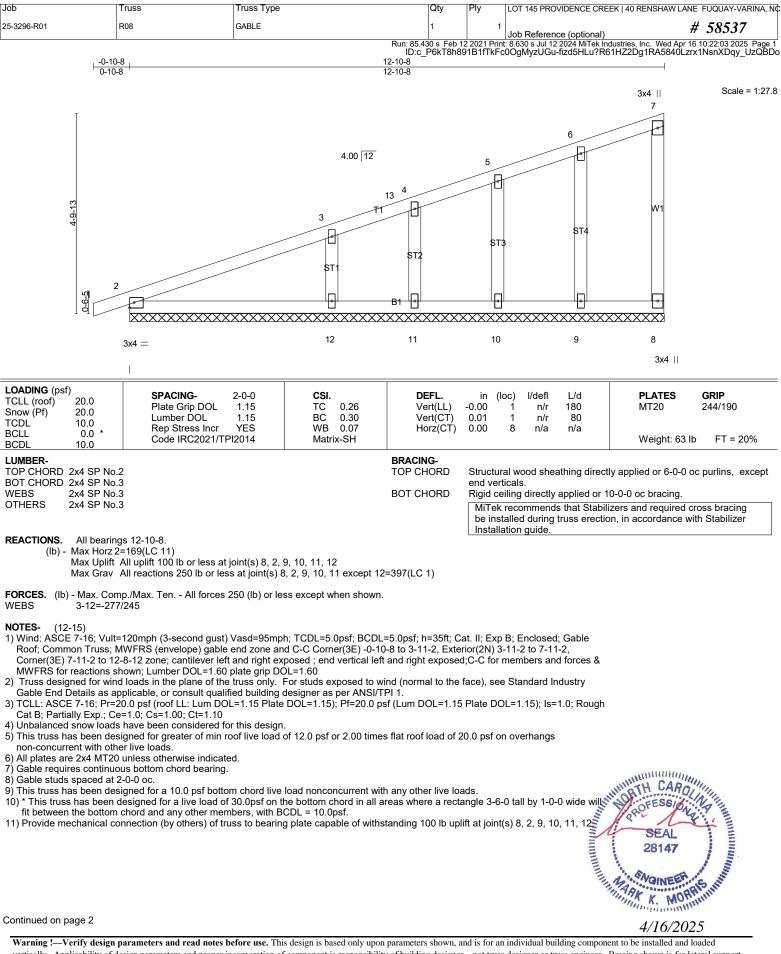
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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK 40 RENSH	AW LANE FUQUAY-VARINA, NC
25-3296-R01	R08	GABLE	1	1	Job Reference (optional)	# 58537
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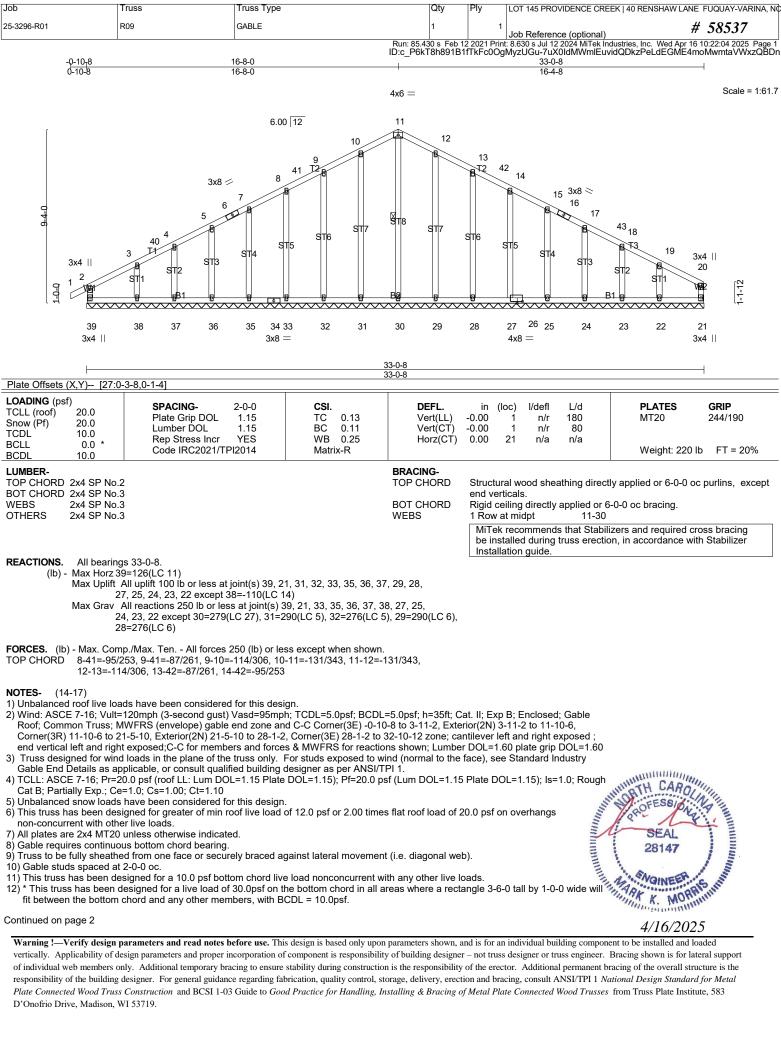
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LOAD CASE(S) Standard





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Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK 40 RENSI	HAW LANE FUQUAY-VARINA, NC
25-3296-R01	R09	GABLE	1	1	Job Reference (optional)	# 58537
					t: 8.630 s Jul 12 2024 MiTek Industries, Inc. V MvzUGu-7uX0IdMWmIEuvidQDkzPeLd	

NOTES- (14-17)

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 39, 21, 31, 32, 33, 35, 36, 37, 29, 28, 27, 25, 24, 23, 22 except (jt=lb) 38=110.

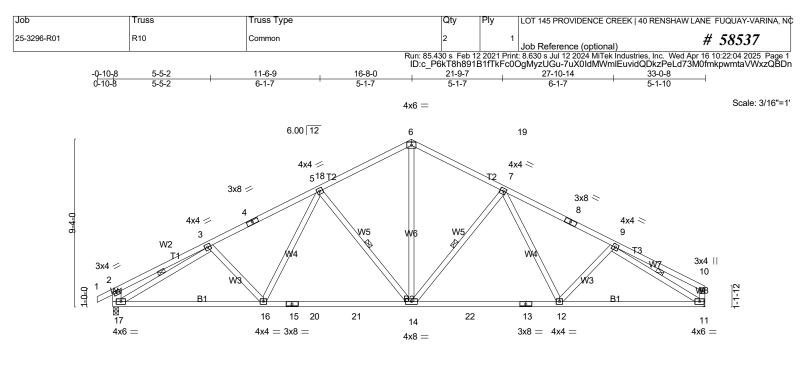
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 (Web Dracing shown is for fateral support of individual web members only. Never to bool - Guide to Good Fractice for Franking, instaining, restaining of bracing of ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





⊢	<u>8-4-14</u> 8-4-14	<u>16-8-0</u> 8-3-2		<u>4-11-2</u> 8-3-2		<u>33-0-8</u> 8-1-6	
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 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 IRC2021/TPI2014	CSI. TC 0.52 BC 0.97 WB 0.48 Matrix-SH	()	in (loc) l/defl -0.22 12-14 >999 -0.36 12-14 >999 0.09 11 n/a	240 180	PLATES MT20 Weight: 195 I	GRIP 244/190 p FT = 20%
LUMBER- TOP CHORD 2x4 SP No. BOT CHORD 2x4 SP No. WEBS 2x4 SP No. W1: 2x6 SF	2 3 *Except*	T	BRACING- TOP CHORD BOT CHORD WEBS	end verticals. Rigid ceiling direct 1 Row at midpt MiTek recommer	ly applied or 2 5-14, 3 ids that Stabil g truss erection	tly applied or 3-9-9 or 2-2-0 oc bracing. 7-14, 3-17, 9-11 lizers and required cr on, in accordance wit	oss bracing

- REACTIONS. (lb/size) 17=1374/0-3-8 (min. 0-1-10), 11=1306/Mechanical Max Horz 17=127(LC 13) Max Uplift17=-179(LC 14), 11=-156(LC 15)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-376/96. 3-4=-1942/298. 4-5=-1876/315. 5-18=-1467/304. 6-18=-1460/327.
- 6-19=-1459/327, 7-19=-1467/304, 7-8=-1852/315, 8-9=-1920/299, 2-17=-364/117
- BOT CHORD 16-17=-292/1703, 15-16=-175/1546, 15-20=-175/1546, 20-21=-175/1546, 14-21=-175/1546,
- 14-22=-142/1535, 13-22=-142/1535, 12-13=-142/1535, 11-12=-193/1657
- WEBS 5-16=-28/341, 5-14=-593/205, 6-14=-153/1035, 7-14=-574/203, 7-12=-26/318, 3-17=-1758/250, 9-11=-1844/253

NOTES-(10-13)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-10-6. Exterior(2R) 11-10-6 to 21-5-10, Interior(1) 21-5-10 to 28-0-2, Exterior(2E) 28-0-2 to 32-10-12 zone; cantilever left and right exposed ;
- end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will the provide mechanical connections. Provide mechanical connection (by others) of truss to beact 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 5) This trues income an non-concurrent with other live loads.
 6) This trues has been designed for a 10.0 psf bottom chord live load rec...
 7) * This trues has been designed for a live load of 30.0psf on the bottom chord in all areas where a between the bottom chord and any other members, with BCDL = 10.0psf.
 8) Refer to girder(s) for trues to trues connections.
 9) Provide mechanical connection (by others) of trues to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=19, 11=156.



Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK	40 RENSHAW LANE FUQUAY-VARINA, NC
25-3296-R01	R10	Common	2	1	Job Reference (optional)	# 58537
		R	Run: 85.430 s Feb 12	2 2021 Prin	t: 8.630 s Jul 12 2024 MiTek Industr	ies, Inc. Wed Apr 16 10:22:04 2025 Page 2

ID:c_P6k78h891B1fTkFc00gMyzUGu-7uX0ldMWmIEuvidDkzPeLd73M0/mkpwmtaVWxzQBDn 10) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

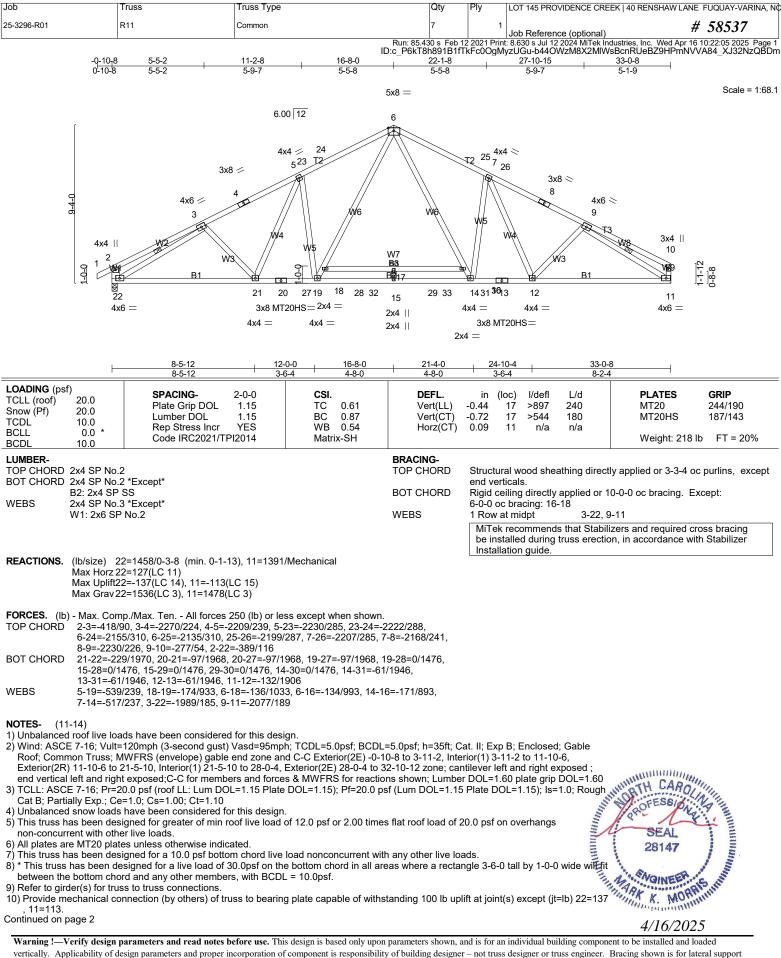
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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK	40 RENSHAW LANE FUQUAY-VARINA, NC
25-3296-R01	R11	Common	7	1	Job Reference (optional)	# 58537
		Ru	un: 85.430 s Feb 12	2 2021 Prin	t: 8.630 s Jul 12 2024 MiTek Industr	ies, Inc. Wed Apr 16 10:22:05 2025 Page 2

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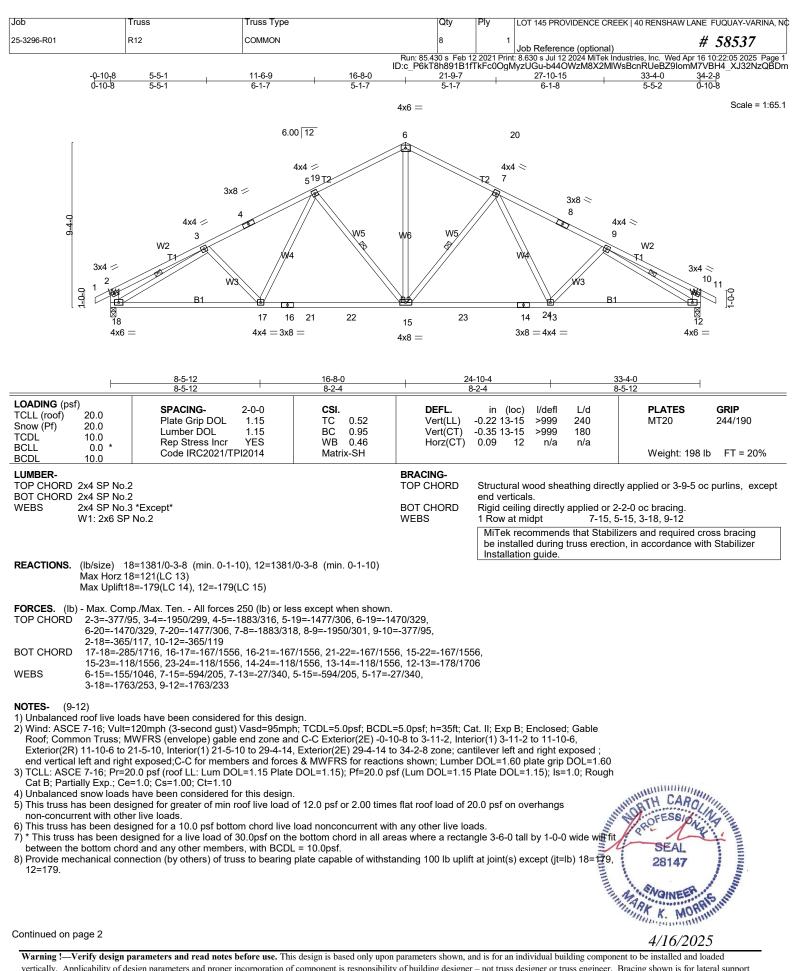
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 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK 40 RENS	HAW LANE FUQUAY-VARINA, NC
25-3296-R01	R12	COMMON	8	1	Job Reference (optional)	# 58537
		Ru	un: 85.430 s Feb 12	22021 Prin	t: 8.630 s Jul 12 2024 MiTek Industries, Inc. \	Ned Apr 16 10:22:05 2025 Page 2

ID:c_P6kT8h891B1fTkFc0OgMyzUGu-b44OWzM8X2MIWsBcnRUeBZ9IomM7VBH4_XJ32NzQBDm

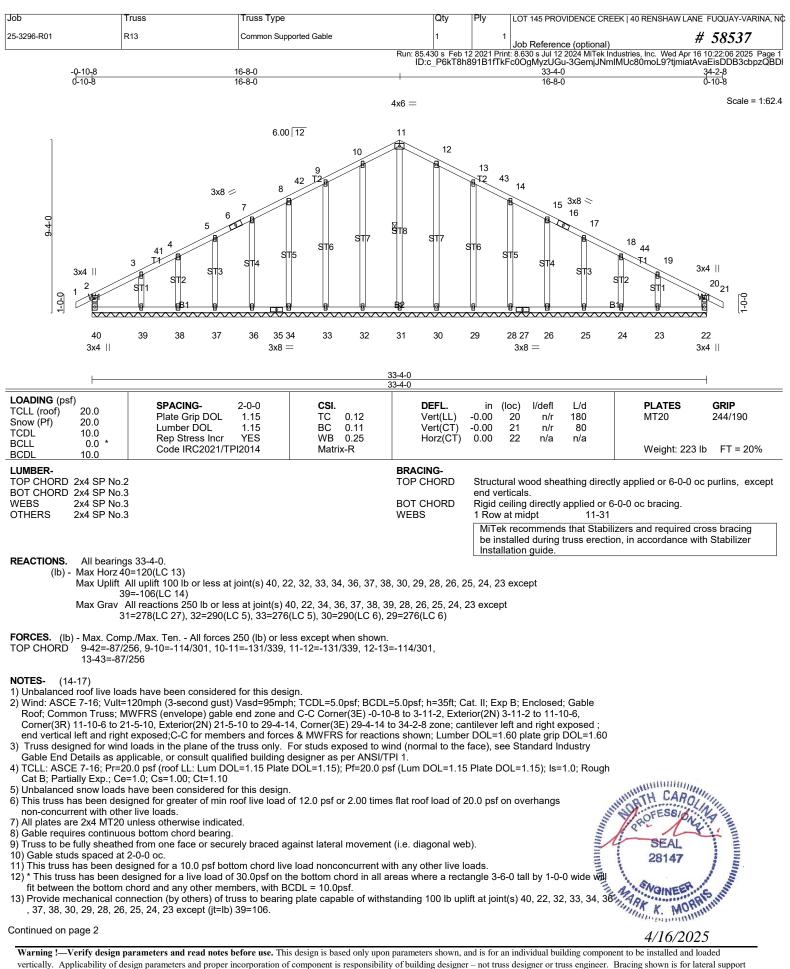
9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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

 Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 145 PROVIDENCE CREEK 40 RENSI	HAW LANE FUQUAY-VARINA, NC
25-3296-R01	R13	Common Supported Gable	1	1	Job Reference (optional)	# 58537
Run: 85.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:22:06 2025 Page 2						

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

15) 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.

 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

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