

Trenco 818 Soundside Rd Edenton, NC 27932

Re: Master_RT Voyageur; Master.RT

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I50862741 thru I50862769

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



Johnson, Andrew

March 20,2022

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.



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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-11-15 to 2-11-7, Interior(1) 2-11-7 to 19-9-0, Exterior(2) 19-9-0 to 25-4-1, Interior(1) 25-4-1 to 40-5-15 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) All plates are MT20 plates unless otherwise indicated.

4) All plates are 4x6 MT20 unless otherwise indicated.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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.



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LOADING (p TCLL 20 TCDL 10 BCLL BCDL 10	psf) 0.0 0.0 0.0 * 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 NO Pl2014	CSI. TC 0.81 BC 0.78 WB 0.79 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc -0.35 23-2 -0.53 23-2 0.03 1 0.05 23-2	i) l/defl 5 >783 5 >519 7 n/a 5 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 367 lb	GRIP 244/190 FT = 20%
LUMBER-	0 2x4 SP I	No.2			BRACING TOP CHO	- RD Stru	ctural wood	sheathing dir	ectly applied or 3-8-11	oc purlins.
BOT CHORD	2x4 SP I	No.1				exce	pt end verti	cals.		,
WEBS	2x4 SP I	No.3			BOT CHO	RD Rigi	d ceiling dire	ctly applied	or 6-0-0 oc bracing.	
OTHERS	2x4 SP I	No.3			WEBS	1 Ro	w at midpt	7	-17, 5-23, 3-26	

REACTIONS. All bearings 16-9-8 except (jt=length) 26=0-3-8, 22=0-3-8.

Max Horz 26=-261(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 20, 26, 12 except 17=-140(LC 13), 22=-112(LC 18) Max Grav All reactions 250 lb or less at joint(s) 20, 19, 18, 16, 15, 14, 13, 22 except 17=1565(LC 1), 26=1186(LC 19), 12=290(LC 24)

- TOP CHORD 2-3=-479/122, 3-5=-1449/141, 5-6=-753/166, 6-7=-753/163, 7-9=0/418, 9-10=-257/165, 2-26=-452/123, 10-12=-332/144 BOT CHORD 25-26=-147/1456, 23-25=-21/999, 22-23=0/425, 20-22=0/425, 19-20=0/425, 18-19=0/425,
- 17-18=0/425 WFBS 6-23=-97/489, 7-23=-5/496, 7-17=-1403/78, 9-17=-430/205, 5-23=-715/203, 5-25=-43/633, 3-25=-309/198, 3-26=-1187/0, 9-12=-98/260

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-11-15 to 2-11-7, Interior(1) 2-11-7 to 19-9-0, Exterior(2) 19-9-0 to 23-8-6, Interior(1) 23-8-6 to 40-5-15 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) All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- * 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 7) 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 100 lb uplift at joint(s) 20, 26, 12 except (jt=lb) 17=140, 22=112.



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



9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

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

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March 20,2022

Job	Truss	Truss Type	Qty	Ply	Voyageur; Master.RT
					150862743
MASTER_RT	A02H	COMMON	7	1	
					Job Reference (optional)
LOAD CASE(S)	olf)		ID:whs5sxHCVy0	zsWPodSM	ldtHyQpff-ZHU2?vhgvfko4KxNATClUm?d2e?C6?ojvyQWGNzZfRK
Vert: 1-2	2=-60, 2-6=-60, 6-10=-60,	10-11=-60, 12-20=-20			
2) Dead + 0.75 Roo	of Live (balanced) + 0.75 l	Jninhab. Attic Storage: Lumber Increase=	1.15, Plate Increase=1.15		
Uniform Loads (plf)				

- Vert: 1-2=-50, 2-6=-50, 6-10=-50, 10-11=-50, 20-31=-20, 31-32=-50, 12-32=-20, 33-34=-30(F) 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf) Vert: 1-2=-20, 2-6=-20, 6-10=-20, 10-11=-20, 12-20=-40, 33-34=-40(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
- Vert: 1-2=32, 2-25=17, 6-25=12, 6-28=17, 10-28=12, 10-11=8, 12-20=-12
- Horz: 2-20=13, 1-2=-44, 2-25=-29, 6-25=-24, 6-28=29, 10-28=24, 10-11=20, 10-12=24 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
- Vert: 1-2=8, 2-27=12, 6-27=17, 6-30=12, 10-30=17, 10-11=32, 12-20=-12 Horz: 2-20=-24, 1-2=-20, 2-27=-24, 6-27=-29, 6-30=24, 10-30=29, 10-11=44, 10-12=-13
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-0, 2-6=-44, 6-10=-44, 10-11=-40, 12-20=-20
 - Horz: 2-20=-15, 1-2=-20, 2-6=24, 6-10=-24, 10-11=-20, 10-12=-22
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-40, 2-6=-44, 6-10=-44, 10-11=-0, 12-20=-20
- Horz: 2-20=22, 1-2=20, 2-6=24, 6-10=-24, 10-11=20, 10-12=15
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
- Vert: 1-2=-4, 2-6=-14, 6-10=5, 10-11=1, 12-20=-12
- Horz: 2-20=13, 1-2=-8, 2-6=2, 6-10=17, 10-11=13, 10-12=16
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
- Vert: 1-2=1, 2-6=5, 6-10=-14, 10-11=-4, 12-20=-12
- Horz: 2-20=-16, 1-2=-13, 2-6=-17, 6-10=-2, 10-11=8, 10-12=-13
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-27, 2-6=-31, 6-10=-11, 10-11=-7, 12-20=-20
 - Horz: 2-20=21, 1-2=7, 2-6=11, 6-10=9, 10-11=13, 10-12=7
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-7, 2-6=-11, 6-10=-31, 10-11=-27, 12-20=-20
- Horz: 2-20=-7, 1-2=-13, 2-6=-9, 6-10=-11, 10-11=-7, 10-12=-21
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
- Vert: 1-2=14, 2-26=19, 6-26=9, 6-10=2, 10-11=-3, 12-20=-12
- Horz: 2-20=11, 1-2=-26, 2-26=-31, 6-26=-21, 6-10=14, 10-11=9, 10-12=12 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-3, 2-6=2, 6-29=9, 10-29=19, 10-11=14, 12-20=-12
- Horz: 2-20=-12, 1-2=-9, 2-6=-14, 6-29=21, 10-29=31, 10-11=26, 10-12=-11 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 - Vert: 1-2=5, 2-6=9, 6-10=2, 10-11=-3, 12-20=-12
- Horz: 2-20=5, 1-2=-17, 2-6=-21, 6-10=14, 10-11=9, 10-12=12
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-3, 2-6=2, 6-10=9, 10-11=5, 12-20=-12
 - Horz: 2-20=-12, 1-2=-9, 2-6=-14, 6-10=21, 10-11=17, 10-12=-5
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 - Vert: 1-2=6, 2-26=2, 6-26=-7, 6-10=-15, 10-11=-11, 12-20=-20
 - Horz: 2-20=19, 1-2=-26, 2-26=-22, 6-26=-13, 6-10=5, 10-11=9, 10-12=3
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-11, 2-6=-15, 6-29=-7, 10-29=2, 10-11=6, 12-20=-20
 - Horz: 2-20=-3, 1-2=-9, 2-6=-5, 6-29=13, 10-29=22, 10-11=26, 10-12=-19
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-20, 2-6=-20, 6-10=-20, 10-11=-20, 20-31=-20, 31-32=-60, 12-32=-20, 33-34=-40(F)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-55, 2-6=-58, 6-10=-44, 10-11=-40, 20-31=-20, 31-32=-50, 12-32=-20, 33-34=-30(F)
 - Horz: 2-20=16, 1-2=5, 2-6=8, 6-10=6, 10-11=10, 10-12=6
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

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Job	Truss	Truss Type	Qty	Ply	Voyageur; Master.RT	-
MASTER RT	A02H	COMMON	7	1	150)862743
W/OTEN_IN	7.0211		'		Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.430 s Oct 22 2021 MiTek Industries, Inc. Fri Mar 18 15:38:01 2022 Page 3 ID:whs5sxHCVy0zsWPodSMdtHyQpff-ZHU2?vhgvfko4KxNATCIUm?d2e?C6?ojvyQWGNzZfRK

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-40, 2-6=-44, 6-10=-58, 10-11=-55, 20-31=-20, 31-32=-50, 12-32=-20, 33-34=-30(F)

- Horz: 2-20=-6, 1-2=-10, 2-6=-6, 6-10=-8, 10-11=-5, 10-12=-16
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-30, 2-26=-34, 6-26=-41, 6-10=-46, 10-11=-43, 20-31=-20, 31-32=-50, 12-32=-20, 33-34=-30(F)
 - Horz: 2-20=15, 1-2=-20, 2-26=-16, 6-26=-9, 6-10=4, 10-11=7, 10-12=2
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-43, 2-6=-46, 6-29=-41, 10-29=-34, 10-11=-30, 20-31=-20, 31-32=-50, 12-32=-20, 33-34=-30(F)

- Horz: 2-20=-2, 1-2=-7, 2-6=-4, 6-29=9, 10-29=16, 10-11=20, 10-12=-15
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-2=-60, 2-6=-60, 6-10=-20, 10-11=-20, 12-20=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-6=-20, 6-10=-60, 10-11=-60, 12-20=-20

- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-50, 2-6=-50, 6-10=-20, 10-11=-20, 20-31=-20, 31-32=-50, 12-32=-20, 33-34=-30(F)
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-20, 2-6=-20, 6-10=-50, 10-11=-50, 20-31=-20, 31-32=-50, 12-32=-20, 33-34=-30(F)

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			-,,									
LOADING TCLL TCDL BCLL	(psf) 20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.21 0.10 0.18	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.01 0.01	(loc) 25 25 26	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2015/1	PI2014	iviatri.	х-к						weight: 314 lb	F1 = 20%
LUMBER-						BRACING-						
TOP CHOP	RD 2x4 SI	P No.2				TOP CHOR	D	Structu	ral wood	sheathing d	irectly applied or 6-0-0 c	oc purlins,
BOT CHOP	RD 2x4 SI	P No.2						except	end verti	cals.		
WEBS	2x4 SI	P No.3				BOT CHOR	D	Rigid c	eiling dire	ectly applied	or 6-0-0 oc bracing.	
OTHERS	2x4 SI	P No.3				WEBS		1 Row	at midpt		13-37, 12-38, 11-40, 10	-41, 14-36, 15-34,

REACTIONS. All bearings 39-6-0.

(lb) - Max Horz 48=-261(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 26, 38, 40, 41, 42, 43, 44, 45, 46, 36, 34, 33, 32, 31, 30, 29, 28 except 48=-120(LC 8), 47=-130(LC 12), 27=-112(LC 13) Max Grav All reactions 250 lb or less at joint(s) 48, 26, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47, 36, 34, 33

x Grav All reactions 250 lb or less at joint(s) 48, 26, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47, 36, 34, 33, 32, 31, 30, 29, 28, 27

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

TOP CHORD 11-12=-226/264, 12-13=-253/296, 13-14=-253/296, 14-15=-226/264

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-11-15 to 2-11-7, Exterior(2) 2-11-7 to 19-9-0, Corner(3) 19-9-0 to 23-9-0, Exterior(2) 23-9-0 to 40-5-15 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 38, 40, 41, 42, 43, 44, 45, 46, 36, 34, 33, 32, 31, 30, 29, 28 except (jt=lb) 48=120, 47=130, 27=112.



16-33



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						23-0-0						
		I				23-0-0					1	
LOADING	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	0.13	Vert(LL)	-0.00	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-R						Weight: 144 lb	FT = 20%
					-	BRACING						

LUMBER-

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

BRACING-

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

 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 23-0-0.

Max Uplift All uplift 100 lb or less at joint(s) 29, 16, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17

Max Grav All reactions 250 lb or less at joint(s) 29, 16, 22, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-11-15 to 2-0-1, Exterior(2) 2-0-1 to 11-6-0, Corner(3) 11-6-0 to 14-6-0, Exterior(2) 14-6-0 to 23-11-15 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 16, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17.



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⁽lb) - Max Horz 29=-166(LC 10)



	1				7-0-0						1
	Γ				7-0-0						1
Plate Offsets (X,Y)	[2:0-2-13,Edge]										
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.72 0.58 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.23 0.00	(loc) 4-7 4-7 2	l/defl >817 >359 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2015/TF	PI2014	Matrix	K-MP	Wind(LL)	0.08	4-7	>971	240	Weight: 25 lb	FT = 20%
LUMBER-					BRACING-					-	

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=74(LC 8)

Max Uplift 2=-45(LC 8), 4=-30(LC 8) Max Grav 2=339(LC 1), 4=270(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-10-4 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 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

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

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

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Summerin SEAL 45844 104 mmm March 20,2022



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.23 BC 0.15 WB 0.05 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 0.01 0.00	(loc) 1 1 6	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 29 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 S	P No.2	BRACING- TOP CHOF	RD	Structu	ral wood	sheathing di	rectly applied or 6-0-0	oc purlins,	

BOT CHORD

except end verticals.

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

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

REACTIONS. All bearings 7-0-0.

(lb) - Max Horz 2=71(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8

Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=368(LC 1)

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

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-10-4 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

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

3) Gable requires continuous bottom chord bearing.

3-8=-259/171

4) Gable studs spaced at 1-4-0 oc.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 6, 2, 7, 8.



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2x4 =

2x4 ||

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	тс	0.08	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-P						Weight: 9 lb	FT = 20%

UMBER-

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

Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals. BOT CHORD

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

REACTIONS. 4=2-4-0, 2=2-4-0 (size) Max Horz 2=26(LC 9) Max Uplift 4=-5(LC 12), 2=-42(LC 8) Max Grav 4=74(LC 1), 2=161(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 1-4-0 oc.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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	<u>6-0-0</u> <u>6-0-0</u>		+	<u> </u>					
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.43	DEFL. ir Vert(LL) -0.05	n (loc) 6-9	l/defl >999	L/d 360 240	PLATES MT20	GRIP 244/190	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.11 Matrix-MS	Horz(CT) 0.01 Wind(LL) 0.04	4 6-9	>999 n/a >999	n/a 240	Weight: 43 lb	FT = 20%	
LUMBER-			BRACING-				1		

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 2=0-3-8, 4=0-3-8 (size) Max Horz 2=40(LC 12) Max Uplift 2=-55(LC 8), 4=-55(LC 9) Max Grav 2=540(LC 1), 4=540(LC 1)

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

2-3=-888/94, 3-4=-888/90 TOP CHORD

BOT CHORD 2-6=-27/810, 4-6=-27/810 WEBS 3-6=0/276

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 13-0-0 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



Structural wood sheathing directly applied or 5-6-2 oc purlins.

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

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						12-0-0						
	l					12-0-0						
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	0.19	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.01	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	912014	Matri	x-S						Weight: 46 lb	FT = 20%
LUMBER	}-					BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 12-0-0. (lb) -

Max Horz 2=31(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 except 10=322(LC 1), 8=322(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-0-0, Corner(3) 6-0-0 to 9-0-0, Exterior(2) 9-0-0 to 13-0-0 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) 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.

* 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 7) will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.



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

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

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Trenco 818 Soundside Rd Edenton, NC 27932

Re: Master_RT Voyageur; Master.RT

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I50862770 thru I50862770

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



Johnson, Andrew

March 20,2022

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.





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