

Trenco 818 Soundside Rd Edenton, NC 27932

# Re: Master\_Craftsman MATTAMY HOMES; REDWOOD; CRAFTSMAN

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: I51238977 thru I51238998

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

North Carolina COA: C-0844



April 8,2022

# Gilbert, Eric

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



2x4 SP No.3 WEBS OTHERS 2x4 SP No.3

REACTIONS. All bearings 33-1-0.

(lb) -Max Horz 41=76(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 41, 32, 33, 35, 36, 37, 38, 39, 30, 29, 27, 26, 25, 24, 23 except 40=-128(LC 12) Max Grav All reactions 250 lb or less at joint(s) 41, 22, 31, 32, 33, 35, 36, 37, 38, 39, 40, 30, 29, 27, 26,

25.24.23

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=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 2-4-0, Interior(1) 2-4-0 to 16-8-0, Exterior(2) 16-8-0 to 21-4-9, Interior(1) 21-4-9 to 32-11-4 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

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) 41, 32, 33, 35, 36, 37, 38, 39, 30, 29, 27, 26, 25, 24, 23 except (jt=lb) 40=128.



818 Soundside Road Edenton, NC 27932

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#### continued on page 2

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500	11035	Thuss Type	QUY	FIY	WATTAWIT HOWES, REDWOOD, CRAFTSWAN	151000070
MASTER_CRAFTSMAN	A02	COMMON	7	1		131230970
Builders FirstSource, Apex, NC 2	7523				Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Apr 7 11:27:58	2022 Page 2
		IE	x1XjjwWBL	qE?VCRe <sup>-</sup>	aQN3tymvXu-6nxbW0OYi1IUXFIh7x?udCefi8UFh_Fuy_r	H_zzT7ĎI
LOAD CASE(S) Uniform Loads (plf)						
Vert: 1-2=-50, 2	-6=-50, 6-10=-50, 11-16=-20	, 17-18=-30				
3) Dead + Uninnabitable Ai Uniform Loads (plf)	ttic without Storage: Lumber	Increase=1.25, Plate Increase=1.25				
Vert: 1-2=-20, 2	-6=-20, 6-10=-20, 11-16=-40	, 17-18=-40				
4) Dead + 0.6 C-C Wind (P	os. Internal) Case 1: Lumber	Increase=1.60, Plate Increase=1.60				
Vert: 1-2=42, 2-	21=22, 6-21=12, 6-7=22, 7-1	0=12, 11-16=-12				
Horz: 2-16=13,	1-2=-54, 2-21=-34, 6-21=-24	, 6-7=34, 7-10=24, 10-11=25				
5) Dead + 0.6 C-C Wind (P	os. Internal) Case 2: Lumber	Increase=1.60, Plate Increase=1.60				
Vert: 1-2=8, 2-5	=12, 5-6=22, 6-24=12, 10-24	=22, 11-16=-12				
Horz: 2-16=-25,	1-2=-20, 2-5=-24, 5-6=-34, 6	6-24=24, 10-24=34, 10-11=-13				
6) Dead + 0.6 C-C Wind (N	leg. Internal) Case 1: Lumber	r Increase=1.60, Plate Increase=1.60				
Vert: 1-2=-13, 2	-6=-32, 6-10=-32, 11-16=-20					
Horz: 2-16=-16,	1-2=-7, 2-6=12, 6-10=-12, 1	0-11=-22				
<ol> <li>Dead + 0.6 C-C Wind (N Uniform Loads (plf)</li> </ol>	leg. Internal) Case 2: Lumbei	r Increase=1.60, Plate Increase=1.60				
Vert: 1-2=-27, 2	-6=-32, 6-10=-32, 11-16=-20					
Horz: 2-16=22,	1-2=7, 2-6=12, 6-10=-12, 10-	11=16				
Uniform Loads (plf)	ia (Pos. Internal) Lett: Lumbe	er increase=1.60, Plate increase=1.60				
Vert: 1-2=20, 2-	6=10, 6-10=8, 11-16=-12					
Horz: 2-16=13,	1-2=-32, 2-6=-22, 6-10=20, 1	0-11=16				
Uniform Loads (plf)	iu (Fos. internai) Right. Luni	bei increase=1.00, Flate increase=1.00				
Vert: 1-2=4, 2-6	=8, 6-10=10, 11-16=-12					
Horz: 2-16=-16, 10) Dead + 0.6 MWFRS W	, 1-2=-16, 2-6=-20, 6-10=22, /ind (Neg_Internal) Left: Lumi	10-11=-13 per Increase=1.60. Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-2=-2, 2	2-6=-7, 6-10=-8, 11-16=-20	40.44.7				
11) Dead + 0.6 MWFRS W	, 1-2=-18, 2-6=-13, 6-10=12, /ind (Neg. Internal) Right: Lur	nber Increase=1.60. Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-2=-4, 2	2-6=-8, 6-10=-7, 11-16=-20	10-1121				
12) Dead + 0.6 MWFRS W	ind (Pos. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase=1.6	0			
Uniform Loads (plf)						
Vert: 1-2=14, 2 Horz: 2-16=11	2-22=19, 6-22=9, 6-10=2, 11- 1-2=-26, 2-22=-31, 6-22=-2	·16=-12 1 6-10=14 10-11=12				
13) Dead + 0.6 MWFRS W	ind (Pos. Internal) 2nd Parall	el: Lumber Increase=1.60, Plate Increase=1.6	60			
Uniform Loads (plf)		16 10				
Horz: 2-16=-12	-6=2, 6-23=9, 10-23=19, 11- 2, 1-2=-9, 2-6=-14, 6-23=21,	10-23=31, 10-11=-11				
14) Dead + 0.6 MWFRS W	ind (Pos. Internal) 3rd Paralle	el: Lumber Increase=1.60, Plate Increase=1.6	0			
Uniform Loads (plf)	6-9 6-10-2 11-1612					
Horz: 2-16=5,	1-2=-17, 2-6=-21, 6-10=14, 1	0-11=12				
15) Dead + 0.6 MWFRS W	ind (Pos. Internal) 4th Paralle	el: Lumber Increase=1.60, Plate Increase=1.6	0			
Vert: 1-2=-3, 2	2-6=2, 6-10=9, 11-16=-12					
Horz: 2-16=-12	2, 1-2=-9, 2-6=-14, 6-10=21,	10-11=-5				
16) Dead + 0.6 MWFRS W Uniform Loads (plf)	and (Neg. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase=1.6	0			
Vert: 1-2=6, 2-	22=2, 6-22=-7, 6-10=-15, 11	-16=-20				
Horz: 2-16=19	, 1-2=-26, 2-22=-22, 6-22=-1	3, 6-10=5, 10-11=3	20			
Uniform Loads (plf)	inu (Neg. Internal) zhu Paral	iei. Lumber increase=1.00, Plate increase=1.	50			
Vert: 1-2=-11,	2-6=-15, 6-23=-7, 10-23=2, 1	1-16=-20				
Horz: 2-16=-3, 18) Dead: Lumber Increase	, 1-2=-9, 2-6=-5, 6-23=13, 10 ==0 90_Plate_Increase=0 90_	-23=22, 10-11=-19 Plt_metal=0.90				
Uniform Loads (plf)						
Vert: 1-2=-20,	2-6=-20, 6-10=-20, 11-16=-2	0, 17-18=-40				
19) Dead + 0.75 Roof Live Increase=1.60	(bal.) + 0.75 Uninhab. Attic S	storage + 0.75(0.6 MWFRS Wind (Neg. Int) Le	eft): Lumber	Increase=	-1.60, Plate	
Uniform Loads (plf)						
Vert: 1-2=-37,	2-6=-40, 6-10=-41, 11-16=-2	0, 17-18=-30				
20) Dead + 0.75 Roof Live	(bal.) + 0.75 Uninhab. Attic S	Storage + 0.75(0.6 MWFRS Wind (Neg. Int) R	ght): Lumbe	er Increas	e=1.60, Plate	
Increase=1.60		_ 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、				
Uniform Loads (plf)	2-6-11 6-10- 10 11 16- 2	0 17-1830				
Vent. 1-2=-38,	1 2 12 2 6 0 6 10 10 1	0, 11-10-50				

Qty

Ply

MATTAMY HOMES; REDWOOD; CRAFTSMAN

Truss Type

Horz: 2-16=-6, 1-2=-12, 2-6=-9, 6-10=10, 10-11=-16

# ntinued on page 3

Job

Truss

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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES; REDWOOD; CRAFTSMAN
					151238978
MASTER_CRAFTSMAN	A02	COMMON	7	1	
					Job Reference (optional)
Builders FirstSource, Apex, NC 2	7523		8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Apr 7 11:27:58 2022 Page 3		

ID:x1XjjwWBLqE?VCReTaQN3tymvXu-6nxbW0OYi1IUXFIh7x?udCefi8UFh\_Fuy\_rH\_zzT7DI

# LOAD CASE(S)

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, 2-22=-34, 6-22=-41, 6-10=-46, 11-16=-20, 17-18=-30
  - Horz: 2-16=15, 1-2=-20, 2-22=-16, 6-22=-9, 6-10=4, 10-11=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, 6-23=-41, 10-23=-34, 11-16=-20, 17-18=-30 Horz: 2-16=-2, 1-2=-7, 2-6=-4, 6-23=9, 10-23=16, 10-11=-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, 11-16=-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, 11-16=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
  - Vert: 1-2=-50, 2-6=-50, 6-10=-20, 11-16=-20, 17-18=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
  - Vert: 1-2=-20, 2-6=-20, 6-10=-50, 11-16=-20, 17-18=-30

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F		11-2-8			10-11-0			1		10-11-8	1
Plate Offset	ts (X,Y)	[2:0-3-0,0-1-12], [12:0-4-0,	0-3-4], [13:0-4-0	,0-3-4]							
LOADING TCLL TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPI	2-0-0 1.15 1.15 YES 2014	<b>CSI.</b> TC 0.73 BC 0.90 WB 0.51 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.56 -0.77 0.08 0.07	(loc) 12-13 12-13 11 12-13	l/defl >706 >512 n/a >999	L/d 360 240 n/a 240	<b>PLATES</b> MT20 Weight: 184 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHOR BOT CHOR WEBS REACTION	D 2x4 SF D 2x4 SF 2x4 SF IS. (siz Max H Max G	P No.2 P No.1 P No.3 e) 14=0-3-8, 11=Mechan lorz 14=76(LC 16) irav 14=1382(LC 1), 11=13	ical 310(LC 1)		BRACING- TOP CHOR BOT CHOR WEBS	D D	Structu except Rigid c 1 Row	ral wood end vertie eiling dire at midpt	sheathing dir cals. cctly applied o 9	rectly applied or 3-9-1 o or 10-0-0 oc bracing. I-11, 3-14	c purlins,
FORCES. TOP CHOR	(lb) - Max. D 2-14: 7-9≕	Comp./Max. Ten All forc =-403/103, 2-3=-468/29, 3-4 -2050/100, 9-10=-337/11, 1	es 250 (lb) or les 5=-2070/95, 5-6= 0-11=-258/51	s except when shown. =-2078/167, 6-7=-2056/1	64,						

BOT CHORD 13-14--88/1954, 12-13=/0/1404, 11-12=-88/1897 WEBS 6-12=-33/783, 7-12=-352/123, 9-11=-1902/129, 6-13=-33/813, 5-13=-355/123,

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 2-4-0, Interior(1) 2-4-0 to 16-8-0, Exterior(2) 16-8-0 to 21-4-9, Interior(1) 21-4-9 to 32-11-4 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

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.

3-14=-1812/109



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L	11-2-8			22-1-8	1	33-4-0	1
		11-2-8		10-11-0		11-2-8	1
Plate Offsets	(X,Y)	[2:0-3-0,0-1-12], [10:0-3-0,0-1-12], [13:0-	-0,0-3-4], [14:0-4-0,0-3-4	.]		1	
LOADING (P TCLL 20 TCDL 10 BCLL 0 BCDL 10	osf) 0.0 0.0 0.0 * 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	<b>CSI.</b> TC 0.73 BC 0.90 WB 0.50 Matrix-MS	<b>DEFL.</b> in Vert(LL) -0.56 Vert(CT) -0.77 Horz(CT) 0.08 Wind(LL) 0.07	n (loc) l/defl 5 13-14 >707 3 7 13-14 >516 2 8 12 n/a 7 13-14 >999 2	L/d <b>PLATES</b> 360 MT20 240 n/a 240 Weight: 187	<b>GRIP</b> 244/190 7 lb FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS	) 2x4 SF ) 2x4 SF 2x4 SF	P No.2 P No.1 P No.3		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood shu except end vertical Rigid ceiling directl 1 Row at midot	eathing directly applied or 3-8 s. y applied or 10-0-0 oc bracin 9-12. 3-15	3-13 oc purlins, g.

REACTIONS. (size) 15=0-3-8, 12=0-3-8 Max Horz 15=71(LC 12) Max Grav 15=1390(LC 1), 12=1390(LC 1)

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

TOP CHORD 2-15=-404/103, 2-3=-469/29, 3-5=-2090/93, 5-6=-2097/164, 6-7=-2097/164,

7-9=-2090/93, 9-10=-469/28, 10-12=-404/103

 BOT CHORD
 14-15=-61/1969, 13-14=0/1423, 12-13=-48/1969

 WEBS
 6-13=-33/811, 7-13=-356/123, 9-12=-1828/110, 6-14=-33/811, 5-14=-356/124, 3-15=-1828/110

# 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 2-4-0, Interior(1) 2-4-0 to 16-8-0, Exterior(2) 16-8-0 to 21-4-9, Interior(1) 21-4-9 to 34-4-0 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, with BCDL = 10.0psf.

# SEAL 036322 April 8,2022

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			33-4-0 33-4-0					
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	CSI. TC 0.09 BC 0.04 WB 0.13 Matrix-R	DEFL. ir Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00	(loc) 23 23 24	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 206 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI	P No.2 P No.2		BRACING- TOP CHORD	Structu	ral wood : end vertic	sheathing di cals.	irectly applied or 6-0-0 c	oc purlins,

BOT CHORD

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

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

**REACTIONS.** All bearings 33-4-0.

(lb) - Max Horz 44=71(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 44, 24, 35, 36, 38, 39, 40, 41, 42, 33, 32, 30, 29, 28, 27, 26, 25 except 43=-122(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 44, 24, 34, 35, 36, 38, 39, 40, 41, 42, 43, 33, 32, 30, 29, 28, 27, 26, 25

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=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 2-4-0, Interior(1) 2-4-0 to 16-8-0, Exterior(2) 16-8-0 to 21-4-9, Interior(1) 21-4-9 to 34-4-0 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) 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) 44, 24, 35, 36, 38, 39, 40, 41, 42, 33, 32, 30, 29, 28, 27, 26, 25 except (jt=lb) 43=122.



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	2-3-8	8-4-4		14-5-0	1	20-7-8		1	26-1	0-0	33-4-0	I
	2-3-8	6-0-12	I	6-0-12	1	6-2-8		1	6-2	-8	6-6-0	1
Plate Offset	ts (X,Y)	[2:0-3-0,0-1-12], [11:0-3-0,0	)-1-12], [15:0	-3-12,0-3-0],	[17:0-2-12,0	-2-8], [19:0-5-12,0	)-3-8]					
LOADING TCLL TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code. IRC2015/TPl2	2-0-0 1.15 1.15 YES 2014	<b>CSI.</b> TC BC WB Matrix	0.59 0.81 0.94 -MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.15 -0.32 0.16 0.10	(loc) 17-18 17-18 13 17-18	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 212 lb	<b>GRIP</b> 244/190 FT = 20%
											····g···· = ··= ··	
LUMBER- TOP CHOR BOT CHOR WEBS REACTION	LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* 3-20,6-16: 2x4 SP No.3 WEBS 2x4 SP No.3 REACTIONS. (size) 13=0-3-8, 21=0-3-8 Max Horz 21=-79(LC 13) Max Uplift 13=-63(LC 13), 21=-63(LC 12) Max Grav 13=1390(LC 1), 21=1390(LC 1)						D	Structu except Rigid c 1 Row	iral wood end verti æiling dire at midpt	sheathing dir cals. ectly applied c 1	ectly applied or 3-0-7 o or 10-0-0 oc bracing. 0-13	c purlins,
FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-2639/141, 3-5=-2660/99, 5-6=-2003/111, 6-7=-1932/154, 7-8=-1930/142, 8-10=-2219/131, 10-11=-400/83, 2-21=-1295/84, 11-13=-376/121         BOT CHORD       20-21=-45/285, 18-19=-231/2723, 17-18=-89/2396, 6-17=-260/112, 14-15=0/1835, 13-14=-32/2011         WEBS       5-18=0/323, 3-18=-373/144, 5-17=-713/113, 15-17=0/1340, 7-15=-97/525, 7-17=-102/877, 8-15=-466/156, 8-14=-53/291, 10-13=-1950/7, 2-19=-121/2282												
NOTES-												

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 2-1-12, Interior(1) 2-1-12 to 16-8-0, Exterior(2) 16-8-0 to 20-0-0, Interior(1) 20-0-0 to 34-4-0 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) 13, 21.



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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 1-9-0, Exterior(2) 1-9-0 to 5-9-0, Corner(3) 5-9-0 to 8-9-0, Exterior(2) 8-9-0 to 12-6-0 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) 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) 16, 10, 14, 15, 12, 11.



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Max Grav 10=857(LC 1), 8=857(LC 1)

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

2-10=-314/96, 2-3=-306/28, 3-4=-976/72, 4-5=-976/72, 5-6=-306/28, 6-8=-314/96 TOP CHORD

BOT CHORD 9-10=-61/1027, 8-9=-36/1027

4-9=0/474, 5-8=-919/100, 3-10=-919/100 WFBS

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 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 21-0-0 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.

\* 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 4) 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) 10, 8.



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Job	Truss	Truss Type	Qty	Ply	MATTAMY HOMES; REDWOOD; CRAFTSMAN	
						151238985
MASTER_CRAFTSMAN	C02-2PL	COMMON	1	2		
				-	Job Reference (optional)	
Builders FirstSource (Apex,	NC), Apex, NC - 27523,			8.530 s De	c 6 2021 MiTek Industries, Inc. Thu Apr 7 10:05:17 2022	Page 2
		ID:x1Xjjv	vWBLqE?\	/CReTaQN	I3tymvXu-XoojVJfN2Tqg8?7189KGF1grXLFBqGcgAfbGN0	0zT8RG

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 9=-1290(B) 21=-1290(B) 22=-1290(B) 23=-1290(B) 24=-1290(B) 25=-1290(B) 26=-1290(B) 27=-1290(B) 28=-1290(B)

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	6-0-0				
Plate Offsets (X Y)	<u>6-0-0</u> [2:0-0-0 0-1-6] [2:0-3-3 Edge] [4:0-0-0	0-1-6] [4:0-3-3 Edge]	1	6-0-0	· ·
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 0.39 BC 0.35 WB 0.10 Matrix-MS	DEFL.         in           Vert(LL)         -0.04           Vert(CT)         -0.07           Horz(CT)         0.01           Wind(LL)         0.03	(loc) l/defl L/d 6-9 >999 360 6-9 >999 240 2 n/a n/a 6-9 >999 240	PLATES         GRIP           MT20         244/190           Weight: 47 lb         FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S WEDGE Left: 2x4 SP No.3 , R	SP No.2 SP No.2 SP No.3 ight: 2x4 SP No.3		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing din Rigid ceiling directly applied o	ectly applied or 6-0-0 oc purlins. or 10-0-0 oc bracing.
REACTIONS. (si Max Max Max	ze) 2=0-3-0, 4=0-3-0 Horz 2=39(LC 12) Uplift 2=-32(LC 12), 4=-32(LC 13) Grav 2=540(LC 1), 4=540(LC 1)				
FORCES.         (lb) - Max           TOP CHORD         2-33           BOT CHORD         2-63           WEBS         3-63	<ul> <li>Comp./Max. Ten All forces 250 (lb) or =-686/77, 3-4=-686/77 =-1/578, 4-6=-1/578 =0/251</li> </ul>	less except when shown.			
NOTES- 1) Unbalanced roof liv	ve loads have been considered for this de	sign.	lle Fore De Freeder de la		

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 9-0-0, Interior(1) 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) 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.



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#### 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) 0-8-12 to 4-0-0, Interior(1) 4-0-0 to 5-10-11, Exterior(2) 5-10-11 to 8-10-11, Interior(1) 8-10-11 to 11-0-10 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) 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 7.



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#### 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) 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) 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.

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



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2x4 ⋍

2x4 📚

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

			<u>3-9-6</u> 3-9-6	
Plate Offsets (X,Y)	[2:0-3-0,Edge]			
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 0.02 BC 0.06 WB 0.00 Matrix-P	DEFL.         in         (loc)         I/defl         L/d         PLATES           Vert(LL)         n/a         -         n/a         999         MT20           Vert(CT)         n/a         -         n/a         999         MT20           Horz(CT)         0.00         3         n/a         n/a         Weight: 9 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP	No.2		BRACING- TOP CHORD Structural wood sheathing directly applied or 3-9-6	oc purlins.

BOT CHORD

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

REACTIONS. (size) 1=3-9-6, 3=3-9-6 Max Horz 1=-6(LC 17) Max Uplift 1=-3(LC 12), 3=-3(LC 13) Max Grav 1=93(LC 1), 3=93(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=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) 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) 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.

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



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	Q-2-8	4-4	4-0	1			8-5-8		8-8-Q	
	0-2-8	4-'	1-8				4-1-8		0-2-8	
Plate Offsets (X,Y)	[2:0-0-0,0-1-6], [2:0-1-12	2,0-5-6], [4:0-0-0,0	)-1-6], [4:0-1-12,0-5-6]							
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.16 BC 0.18 WB 0.06 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.02 0.00 0.01	(loc) 6-12 6-12 4 6-9	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 35 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4	SP No.2 SP No.2			BRACING- TOP CHOF BOT CHOF		Structu Rigid c	ral wood eiling dire	sheathing di	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins.

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

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=-32(LC 13)

Max Horz 2=-32(LC 13) Max Uplift 2=-40(LC 8), 4=-40(LC 9) Max Grav 2=407(LC 1), 4=407(LC 1)

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

 TOP CHORD
 2-3=-485/87, 3-4=-485/87

 BOT CHORD
 2-6=-19/420, 4-6=-19/420

# 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 4-4-0, Exterior(2) 4-4-0 to 8-8-0, Interior(1) 8-8-0 to 9-8-0 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.



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Max Horz 2=27(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=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 4-4-0, Corner(3) 4-4-0 to 7-4-0, Exterior(2) 7-4-0 to 9-8-0 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.
- Gable studs spaced at 2-0-0 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) 2, 6, 10, 8.
   8) Non Standard bearing condition. Review required.



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	0-2-8	5-7-12	8-8-0
	d-2-8	5-5-4	3-0-4
Plate Offsets (X,Y)	[2:0-3-8,Edge], [4:0-1-12,0-5-6], [4:0-0-	0,0-1-6]	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI.         DEFL.           TC         0.21         Vert(L           BC         0.23         Vert(C           WB         0.02         Horz(C           Matrix         MS         Wind(C)	in         (loc)         l/defl         L/d         PLATES         GRIP           L)         -0.02         5-11         >999         360         MT20         244/190           CT)         -0.04         5-11         >999         240         MT20         244/190           CT)         0.01         2         n/a         n/a         Weight: 34 lb         ET = 20%

BRACING-

TOP CHORD

BOT CHORD

# LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 WEDGE
 2x4 SP No.3

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

**REACTIONS.** (size) 5=0-3-8, 4=Mechanical, 2=0-3-0

Max Horz 2=35(LC 12) Max Uplift 4=-31(LC 13), 2=-48(LC 8)

Max Grav 5=230(LC 1), 4=190(LC 1), 2=333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-276/110

# 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 4-4-0, Exterior(2) 4-4-0 to 8-8-0 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) 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) 4, 2.



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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Plate Offsets (X,Y)-- [2:0-0-1,0-0-0], [4:Edge,0-2-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	bc) I/defl	L/d	PLATES         GRIP           MT20         244/190           Weight: 26 lb         FT = 20%
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -(	0.06 4	I-7 >999	360	
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -(	0.15 4	I-7 >536	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) (	0.02	2 n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) (	0.05 4	I-7 >999	240	
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=0-3-8, 4=0-1-8 Max Horz 2=75(LC 11)

- Max Uplift 2=-49(LC 8), 4=-26(LC 8)
- Max Grav 2=339(LC 1), 4=270(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) 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.

except end verticals.

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onent 818 Soundside Road Edenton, NC 27932

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2x4 📁

2x4 ||

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 0.16 BC 0.10 WB 0.00 Matrix-P	DEFL. i Vert(LL) n/: Vert(CT) n/: Horz(CT) 0.00	n (loc) l/defl L/d a - n/a 999 a - n/a 999 0 3 n/a n/a	PLATES GRIP MT20 244/190 Weight: 12 lb ET = 20%	
LUMBER-         End         End			BRACING- TOP CHORD Structural wood sheathing directly applied or 4-1-13 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.			

(EACTIONS. (size) 1=4-1-13, 3=4-1-13 Max Horz 1=29(LC 9) Max Uplift 1=-8(LC 8), 3=-12(LC 12) Max Grav 1=119(LC 1), 3=119(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) 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) Gable requires continuous bottom chord bearing.

- 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) 1, 3.



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