

Trenco 818 Soundside Rd Edenton, NC 27932

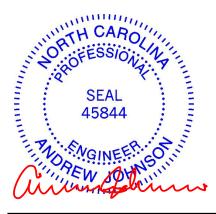
Re: J1024-5833 117 KNIGHT RD FLOOR & ROOF

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I69313117 thru I69313151

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



November 3,2024

Johnson, Andrew **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.

Job	Truss	Truss Type		Qty	Ply	117 KNIGI	IT RD FLOOR &	& ROOF	
J1024-5833	2E1	GABLE		1		1			I6931311
							nce (optional)		
Comtech, Inc, Fay	vetteville, NC - 28314,			ID:ngeSkXX7G					57:32 2024 Page 1 GKWrCDoi7J4zJC?f
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0-1-8									0-1-8
									Scale = 1:4
				3x6	FP =				
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									42
40 39	38 37 36	35 34 33	32 31	30 29	28	27 26	25	24 23	22 21
	30 37 30			50 29	20	27 20	25	24 23	
3x4 =			3x6 FP=						3x4 =
4.4.0 0.0			10.0.0 10.0.0	40.40.440		0 4740	40.0.0		
<u> 1-4-0 2-8-</u> 1-4-0 1-4-			<u>10-8-0</u> <u>12-0-0</u> 1-4-0 <u>1-4-0</u>	13-4-0 14-8-		0 17-4-0	<u>18-8-0</u> 20-0- 1-4-0 1-4-0		
LOADING (psf)		2-0-0 CSI.		DEFL.	in (loc)		_/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00 TC	0.06	()	n/a -		99	MT20	244/190
TCDL 10.0 BCLL 0.0	Lumber DOL Rep Stress Incr	1.00 BC YES WB	0.01 0.03	()	n/a - .00 21		99 n/a		
BCDL 5.0	Code IRC2015/TPI2			1012(01) 0	.00 2	i ii/a i	i/a	Weight: 104 lb	FT = 20%F, 11%
0.0								inoigna roma	1.1 20,01,11,0
LUMBER-				BRACING-					
	P No.1(flat)			TOP CHORD				applied or 6-0-0 o	oc purlins,
	P No.1(flat)					pt end verticals		0.0 oo broeine	
	P No.3(flat)			BOT CHORD	Rigia	centing arrectly	applied of 10-	0-0 oc bracing.	

REACTIONS. All bearings 24-0-0.

2x4 SP No.3(flat)

(Ib) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 30, 22, 23, 24, 25, 26, 27, 28, 29, 39, 38, 37, 36, 35, 34, 33, 31

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

NOTES-

OTHERS

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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lob	Truss	Truss Type		Qty	Ply	117 KNIGHT RD FL	OOR & ROOF	
1024-5833	2E2	GABLE		1	1			16931311
		GABEE				Job Reference (optio	nal)	
Comtech, Inc, Fa	yetteville, NC - 28314,			0.00/70			tries, Inc. Thu Oct 31 15:5	
			ID	engeSkXXZGł	K/S02Zm0zE	e9r1yNt17-RfC?PsB70	Hq3NSgPqnL8w3ulTXbGł	
0 ₁₁ 8								0 ¹ 18
								Scale = 1:20
								00010 - 1.20
1	2 3	4	5 6	7		8 9	10	11
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	21 20	10	10 11	10			10	
3x4 =								3x4 =

	1-4-0	2-0-0	-0-0	J0	0	-1-12	0-11-0	0	0-0		3-1-0	10-11-0	12-3-0
	1-4-0	1-4-0	1-4-0	1-4-0	0	-9-12	0-9-12	1-	4-0	1	1-4-0	1-4-0	1-4-0
LOAD	DING (psf)	SPACING-	2-0-0	CSI.		C	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.06	_ \ \	/ert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	_ \ \	/ert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	- F	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code IRC2015/	TPI2014	Matrix	<-R							Weight: 57 lb	FT = 20%F, 11%E
-				1		1							

# LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat) BRACING-TOP CHORD BOT CHORD

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

#### **REACTIONS.** All bearings 12-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 17, 13, 14, 15, 16, 21, 20, 19, 18

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

#### NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

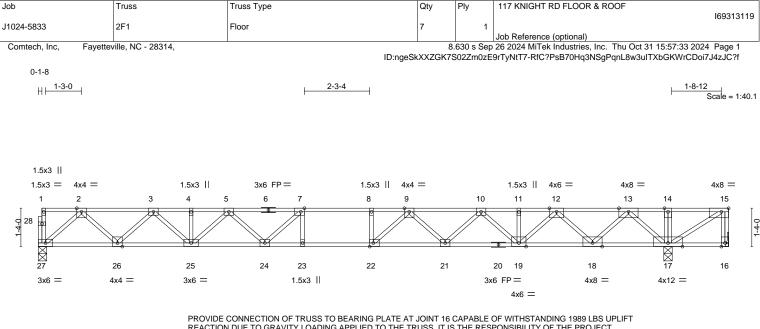
5) Gable studs spaced at 1-4-0 oc.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

# SEAL 45844 November 3,2024

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PROVIDE CONNECTION OF TRUSS TO BEARING PLATE AT JOINT 16 CAPABLE OF WITHSTANDING 1989 LBS UPLIFT REACTION DUE TO GRAVITY LOADING APPLIED TO THE TRUSS. IT IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT/ENGINEER TO DESIGN THE CONNECTION OF THE TRUSS TO THE BEARING PLATE, PROVIDE AND DESIGN CONNECTION SYSTEM FOR A CONTINUOUS LOAD PATH FROM THE TRUSS TO THE FOUNDATION, AND DESIGN FOOTING/FOUNDATION TO RESIST SUCH UPLIFT. FAILURE TO DO SO WILL VOID THIS CONSTRUCTION.

21-10-12 2-1-4 Plate Offsets (X,Y)--[7:0-1-8,Edge], [15:0-3-0,Edge], [22:0-1-8,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) l/defl L/d PLATES GRIP -0.34 23-24 TCLL 40.0 Plate Grip DOL 1.00 тс 0.86 Vert(LL) >772 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.79 Vert(CT) -0.46 23-24 >564 360 BCLL Rep Stress Incr YES WB 0.94 0.05 0.0 Horz(CT) 16 n/a n/a Code IRC2015/TPI2014 FT = 20%F, 11%E BCDL 5.0 Matrix-S Weight: 127 lb LUMBER-BRACING-2x4 SP No.1(flat) 2x4 SP 2400F 2.0E(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, BOT CHORD except end verticals. WEBS 2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18. REACTIONS. (size) 27=0-3-8, 16=Mechanical, 17=0-3-8 Max Uplift 16=-1989(LC 3) Max Grav 27=1009(LC 3), 17=3512(LC 1) FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 15-16=0/1981, 2-3=-1863/0, 3-4=-3119/0, 4-5=-3119/0, 5-7=-3740/0, 7-8=-3790/0, TOP CHORD 8-9=-3790/0, 9-10=-2781/0, 10-11=-1422/0, 11-12=-1422/0, 12-13=0/658, 13-14=0/3228, 14-15=0/3229 BOT CHORD 26-27=0/1097, 25-26=0/2598, 24-25=0/3581, 23-24=0/3790, 22-23=0/3790, 21-22=0/3339, 19-21=0/2246, 18-19=0/499, 17-18=-1762/0 2-27=-1458/0, 2-26=0/1066, 3-26=-1022/0, 3-25=0/707, 5-25=-628/0, 5-24=0/377, WEBS 7-24=-418/224, 13-17=-1959/0, 13-18=0/1575, 12-18=-1562/0, 12-19=0/1256, 10-19=-1121/0, 10-21=0/744, 9-21=-777/0, 9-22=0/855, 8-22=-360/0, 7-23=-258/85, 15-17=-3789/0 NOTES-

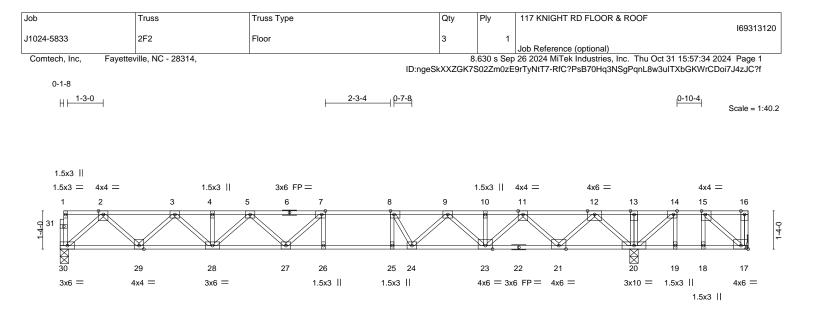
21-10-12

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1989 lb uplift at joint 16.
   6) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.



24-0-0

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L		20-0-4						-0-0
Plate Offsets (X,Y	') [7:0-1-8,Edge], [8:0-1-8,Edge], [14:0-1-4	20-0-4 3 Edge] [15:0-1-8 Edge] [	17.Edge 0-1-8]				<u>'</u> 3-1	1-12
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.89 BC 0.85 WB 0.64	DEFL. Vert(LL) -0.3	in (loc) 30 26-27 41 26-27 05 20	l/defl >791 >577 n/a	L/d 480 360 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 129 lb	FT = 20%F, 11%E
BOT CHORD 2	x4 SP No.1(flat) x4 SP 2400F 2.0E(flat) x4 SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	except	end verti	cals.	rectly applied or 2-2-0 or 6-0-0 oc bracing.	oc purlins,
N FORCES. (lb) -	(size) 30=0-3-8, 20=0-3-8, 17=Mechanica Max Uplift 17=-479(LC 3) Max Grav 30=986(LC 10), 20=1950(LC 1), 17 Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-1813/0, 3-4=-3018/0, 4-5=-3018/0, 5-7=	=63(LC 4) less except when shown.						
BOT CHORD	9-102236/0, 10-112236/0, 11-12584/0, 29-30=0/1070, 28-29=0/2524, 27-28=0/3457 23-24=0/2819, 21-23=0/1503, 20-21=-445/0 17-18=-804/0	12-13=0/1766, 13-14=0/1 26-27=0/3605, 25-26=0/3	766, 14-15=0/804 3605, 24-25=0/3605,					
WEBS	2-30=-1423/0, 2-29=0/1033, 3-29=-988/0, 3- 7-27=-369/250, 7-26=-297/75, 12-20=-1768/ 11-23=0/1004, 9-23=-798/0, 9-24=0/689, 8-2 14-19=0/433, 15-17=0/1051, 15-18=-398/0	), 12-21=0/1335, 11-21=-1	287/0,					
<ol> <li>All plates are 3</li> <li>Plates checked</li> <li>Refer to girder</li> <li>Provide mecha</li> <li>Recommend 2</li> </ol>	por live loads have been considered for this de tx4 MT20 unless otherwise indicated. I for a plus or minus 1 degree rotation about i (s) for truss to truss connections. unical connection (by others) of truss to bearin x6 strongbacks, on edge, spaced at 10-0-0 c	ts center. Ig plate capable of withsta c and fastened to each tru			5.	ç	Quint Print	AROLINI SIG SIN III

Strongbacks to be attached to walls at their outer ends or restrained by other means.

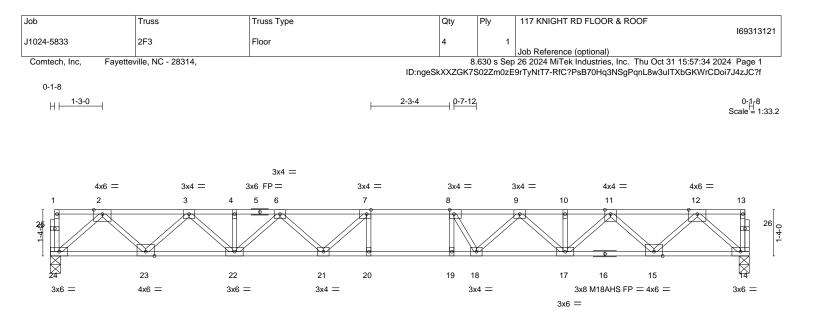
7) CAUTION, Do not erect truss backwards.

7) CAUTION, DO NOT EFECT TRUSS backwards



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			20-2-0 20-2-0			
Plate Offsets (X,Y)	[7:0-1-8,Edge], [8:0-1-8,Edge]					
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	<b>CSI.</b> TC 0.71 BC 0.75 WB 0.56 Matrix-S	<b>DEFL.</b> in Vert(LL) -0.32 Vert(CT) -0.44 Horz(CT) 0.07	2 20 >741 480 20 >539 360	PLATES MT20 M18AHS Weight: 106 lb	<b>GRIP</b> 244/190 186/179 FT = 20%F, 11%E
BOT CHORD 2x4 SF	P No.1(flat) 2 2400F 2.0E(flat) P No.3(flat)	· · · · · ·	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o		oc purlins,
REACTIONS. (siz Max G	e) 24=0-3-8, 14=0-3-8 3rav 24=1089(LC 1), 14=1089(LC 1)					
TOP CHORD 2-3=	Comp./Max. Ten All forces 250 (lb) ol -2035/0, 3-4=-3465/0, 4-6=-3465/0, 6-7= =-3473/0, 10-11=-3473/0, 11-12=-2035/	-4251/0, 7-8=-4472/0, 8-9=	=-4275/0,			

23-24=0/1187, 22-23=0/2854, 21-22=0/3993, 20-21=0/4472, 19-20=0/4472, 18-19=0/4472, BOT CHORD 17-18=0/3967, 15-17=0/2853, 14-15=0/1187 WEBS 2-24=-1578/0, 2-23=0/1180, 3-23=-1138/0, 3-22=0/831, 6-22=-718/0, 6-21=0/497, 7-21=-627/100, 12-14=-1578/0, 12-15=0/1179, 11-15=-1139/0, 11-17=0/842,

9-17=-671/0, 9-18=0/589, 8-18=-742/118, 8-19=-247/376

#### NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

3) All plates are 1.5x3 MT20 unless otherwise indicated.

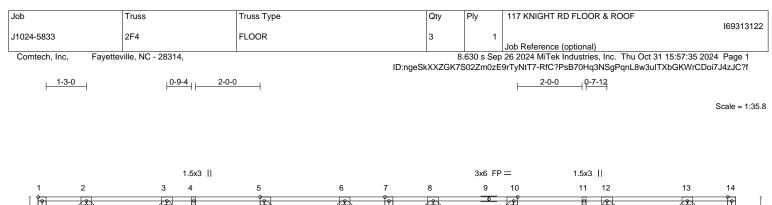
4) Plates checked for a plus or minus 1 degree rotation about its center.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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818 Soundside Road



-4-0				-							1-4-0
26 3x6 =	25	24	23 1.5x3	22 21 3x6 FP =	20 = 3x6 =	19	18 1.5x3	17	16	15 3x6 =	

L	10-10-12		1	21-8-0		21-8-1
1	10-10-12			10-9-4		0-0-1
Plate Offsets (X,Y)	[1:Edge,0-1-8], [5:0-1-8,Edge], [10:0-1-	8,Edge], [17:0-1-8,Edge], [24:	0-1-8,Edge]			
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.40 BC 0.48 WB 0.27 Matrix-S	Vert(LL) -0.07	n (loc) l/defl L/d 7 24-25 >999 480 9 24-25 >999 360 2 15 n/a n/a	PLATES MT20 Weight: 114 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF	P No.1(flat) P No.1(flat) P No.3(flat)	· · · · · ·	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing: 20-22,19-20.	10-0-0 oc bracing,	• •

# REACTIONS. (size) 26=Mechanical, 20=0-3-8, 15=Mechanical Max Grav 26=571(LC 10), 20=1278(LC 1), 15=564(LC 7)

# NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

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

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.

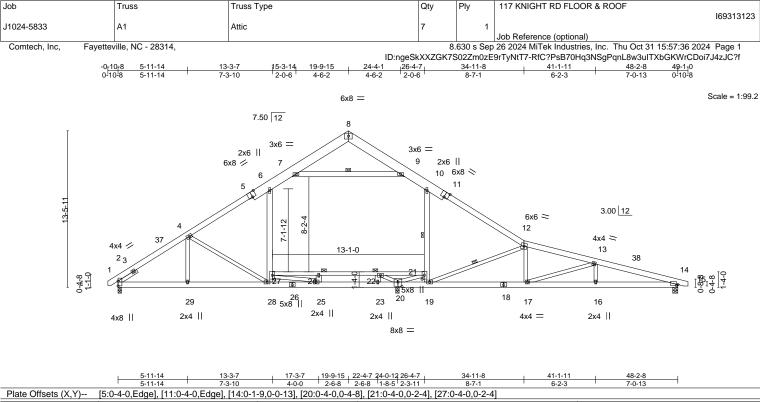


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A Mi Tek Affiliate 818 Soundside Road

WEBS
 19-20=-85/438, 18-19=0/1158, 17-18=0/1158, 16-17=0/1149, 15-16=0/586

 WEBS
 2-26=-792/0, 2-25=0/430, 3-25=-370/0, 6-20=-871/0, 6-22=0/568, 5-22=-628/0, 8-20=-865/0, 8-19=0/558, 10-19=-614/0, 13-15=-781/0, 13-16=0/419, 12-16=-362/0



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 0.46 BC 0.77 WB 0.83 Matrix-AS	Vert(LL) -0.19	25-28 >654 240 14 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 421 lb         FT = 25%
5-8,8-1	P No.1 *Except* 1: 2x10 SP No.1 P No.1 *Except*		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathir Rigid ceiling directly app 1 Row at midpt	
21-27: WEBS 2x4 SF 6-28,10	2x4 SP No.1 P No.2 *Except* 0-19,7-9,24-25,22-23: 2x6 SP No.1			2 Rows at 1/3 pts	21-27
	4 SP No.2 1-11-0 e) 2=0-3-8, 20=0-3-8, 14=0-5-4				
	lorz 2=-250(LC 10) brav 2=1573(LC 20), 20=1648(LC 25), 1	4=1397(LC 1)			
TOP CHORD 2-4=-	Comp./Max. Ten All forces 250 (lb) or -2244/26, 4-6=-1889/41, 6-7=-1447/112, 3=-3288/102, 13-14=-3854/175				
BOT CHORD 2-29= 19-20	=0/2004, 28-29=0/2004, 25-28=0/1761, 3 D=0/1324, 17-19=0/3170, 16-17=-110/36	83, 14-16=-110/3683	,		
12-19 21-22	470/143, 27-28=0/495, 6-27=0/472, 15 9=-1969/187, 12-17=0/460, 13-17=-638/ 2=-115/2307, 7-9=-1556/117, 25-27=-10 1=-2570/218	132, 24-27=-371/974, 22-	24=-371/974,		
/	e loads have been considered for this de /ult=130mph Vasd=103mph; TCDL=6.0	0	Cat. II; Exp B; Enclosed	l; MWFRS (envelope)	TH CARO

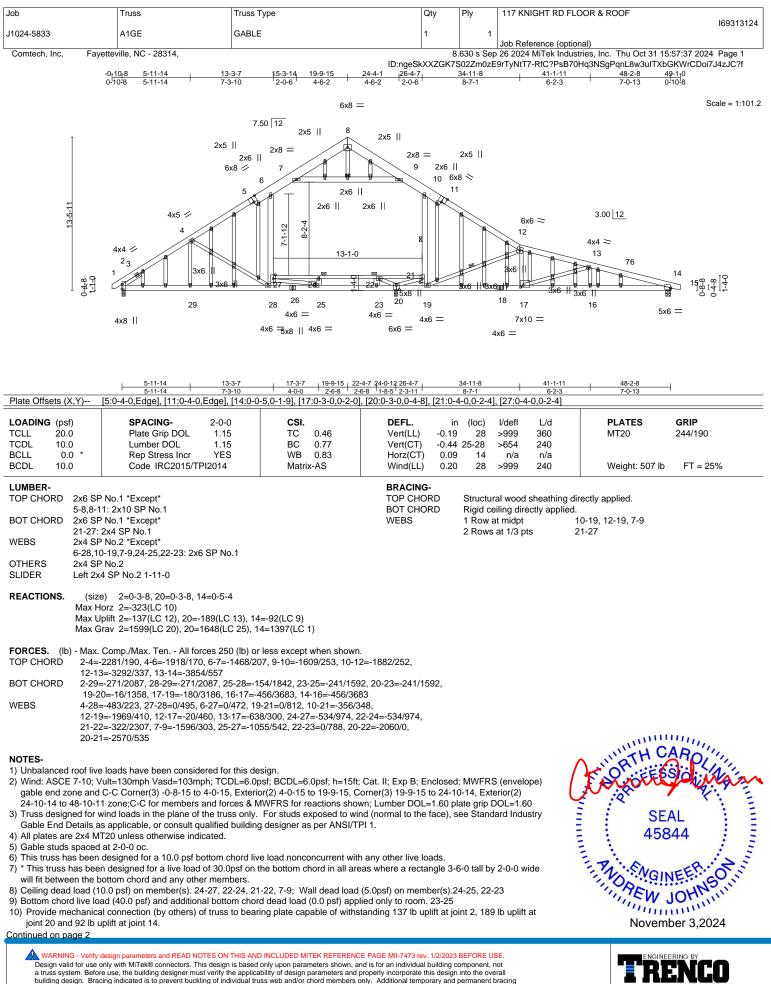
and C-C Exterior(2) -0-8-15 to 4-0-15, Interior(1) 4-0-15 to 19-9-15, Exterior(2) 19-9-15 to 24-10-14, Interior(1) 24-10-14 to 48-10-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) All plates are 4x6 MT20 unless otherwise indicated.

- 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 30.0psf 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) Ceiling dead load (10.0 psf) on member(s). 24-27, 22-24, 21-22, 7-9; Wall dead load (5.0 psf) on member(s). 24-25, 22-23
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 23-25
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

9) Attic room checked for L/360 deflection.



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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/ITPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	117 KNIGHT RD FLOOR & ROOF
J1024-5833	A1GE	GABLE	1	1	169313124
11024-3033	AIGE	GADEE	'		Job Reference (optional)
Comtech, Inc, Fayettev	rille, NC - 28314,		8	.630 s Sep	26 2024 MiTek Industries, Inc. Thu Oct 31 15:57:37 2024 Page 2
		ID:ngeSl	XXZGK7	S02Zm0zE	9rTyNtT7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

12) Attic room checked for L/360 deflection.

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Job	Truss	Truss Type	Qty I	Ply	117 KNIGHT RD FLOOR & ROOF	
J1024-5833	A1GR	ATTIC	2	ົງ		69313125
Comtech, Inc, Fay	etteville, NC - 28314,		8.6			Page 1
		3-3-7 15-3-14 19-9-15 24-4-1	26-4-7 34-	11-8	9rTyNtT7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4 + 41-1-11 + 48-2-8 - 6-2-3 + 7-0-13	zJC?f
		6x8 =			Scal	e = 1:101.9
<pre>def statut</pre>						
$\frac{1}{1000000} \frac{1}{10000000000000000000000000000000000$						
		6x8 🚧 6		*		
-						
13-5-1	/	7		$\sim$	6x6 🗢 📃	
					4x4 =	
	1 ²	13-1-0		B		
			19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Ę		
		20 23 21 6x6 - a 4 11	¹⁸ 17	1	⁶ 15 14 4x8 =	
	588    244	10x16 M18AHS    4x6 =	=	6x		
		4xo —	5x8 —			
	5-11-14	3-3-7 , 17-3-7 , 19-9-15 , 22-4-7 24-0-	12 26-4-7 34-	11-8	, 41-1-11 48-2-8	
Plate Offsets (X,Y)	5-11-14	-3-10 4-0-0 2-6-8 2-6-8 1-8-	5 2-3-11 8-	7-1		
TCDL 10.0	Lumber DOL 1.	15 BC 0.42	Vert(CT) -0.52	26	>553 240 M18AHS 186/179	
			. ,			
TOP CHORD         2x6 SF           4-7,7-1         BOT CHORD         2x6 SF           19-25:         WEBS         2x4 SF           5-26,9-         5-26,9-	0: 2x10 SP No.1 2400F 2.0E *Except* 2x4 SP No.1 No.2 *Except* 17,6-8,22-23,20-21: 2x6 SP N		TOP CHORD BOT CHORD	Rigid ce	iling directly applied or 10-0-0 oc bracing.	
Max H Max U	orz 1=-249(LC 4) plift 13=-56(LC 5), 1=-102(LC	8)				
TOP CHORD 1-3=- 8-9=- BOT CHORD 1-27- 17-18 WEBS 3-26- 11-11 19-20	4144/199, 3-5=-3838/220, 5-6 2846/225, 9-11=-3433/255, 11 220/3430, 26-27=-220/3430, 3=-28/2388, 15-17=-199/7356, -488/121, 25-26=-112/1828, 5 7=-483/188, 11-15=-24/1730, 0=-83/3715, 6-8=-3512/335, 23	2665/190, 6-7=-131/546, 7-8=-173/305, -12=-7676/256, 12-13=-7773/193 23-26=-175/3400, 21-23=-86/2504, 18-2 14-15=-153/7472, 13-14=-153/7472 -25=-61/1781, 17-19=-52/2062, 9-19=-25 12-15=-488/291, 22-25=-349/1538, 20-22	1=-86/2504, 66/1159, 2=-349/1538,			
<ol> <li>2-ply truss to be con Top chords connect Bottom chords connect Bottom chords conn Webs connected as</li> <li>All loads are conside ply connections have</li> <li>Unbalanced roof live</li> <li>Unbalanced roof live</li> <li>Wind: ASCE 7-10; W Lumber DOL=1.60 p</li> <li>All plates are MT20</li> <li>This truss has been will fit between the b</li> <li>Ceiling dead load (1</li> <li>Bottom chord live loa</li> <li>Provide mechanica</li> </ol>	ed as follows: 2x6 - 2 rows sta ected as follows: 2x6 - 2 rows follows: 2x4 - 1 row at 0-9-0 o ered equally applied to all plies e been provided to distribute o loads have been considered fult=130mph Vasd=103mph; T blate grip DOL=1.60 plates unless otherwise indica designed for a 10.0 psf bottom n designed for a live load of 30 ottom chord and any other me 0.0 psf) on member(s). 22-25, ad (40.0 psf) and additional bo	ggered at 0-9-0 oc, 2x10 - 2 rows stagger staggered at 0-9-0 oc, 2x4 - 1 row at 0-9- , 2x6 - 2 rows staggered at 0-9-0 oc. , except if noted as front (F) or back (B) fa hly loads noted as (F) or (B), unless other or this design. CDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II ed. chord live load nonconcurrent with any c .0psf on the bottom chord in all areas wh mbers. 20-22, 19-20, 6-8; Wall dead load (5.0ps tom chord dead load (0.0 psf) applied on	0 oc. ace in the LOAD CA wise indicated. ; Exp B; Enclosed;   ther live loads. ere a rectangle 3-6- f) on member(s).22 ly to room. 21-23	MWFRS 0 tall by -23, 20-2	ection. Ply to (envelope); 2-0-0 wide 21 102 lb uplift November 3,2024	All All All A
Design valid for use of a truss system. Befor building design. Brac is always required for fabrication, storage, of	only with MiTek® connectors. This desi e use, the building designer must verif ing indicated is to prevent buckling of stability and to prevent collapse with p delivery, erection and bracing of trusse	gn is based only upon parameters shown, and is for the applicability of design parameters and properly	an individual building con incorporate this design in ditional temporary and pe eneral guidance regarding <b>a and DSB-22</b> available	nponent, n to the ove rmanent b g the from Trus	ot rall racing	ate

Job	Truss	Truss Type	Qty	Ply	117 KNIGHT RD FLOOR & ROOF
14004 5000					169313125
J1024-5833	A1GR	ATTIC	2	2	Job Reference (optional)
				_	Job Reference (optional)
Comtech, Inc, Fayettev	rille, NC - 28314,		8	.630 s Sep	26 2024 MiTek Industries, Inc. Thu Oct 31 15:57:39 2024 Page 2
		ID:ngeSk	kXXZGK7	S02Zm0zE	9rTyNtT7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1569 lb down and 206 lb up at 13-1-15, and 1547 lb down and 92 lb up at 35-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-7=-60, 7-11=-60, 11-13=-60, 28-31=-20, 19-25=-20, 6-8=-20

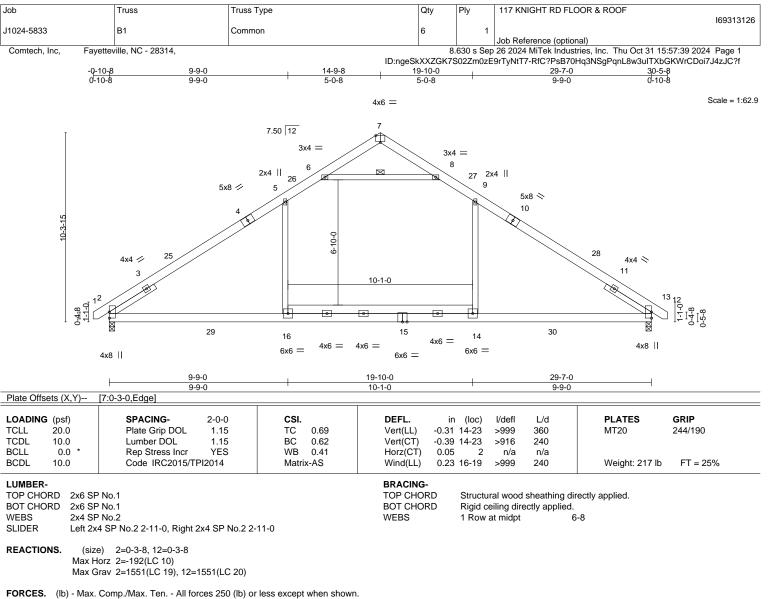
Drag: 22-23=-10, 20-21=-10

Concentrated Loads (lb)

Vert: 26=-1203(F) 15=-1200(F)

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- TOP CHORD 2-5=-2068/199, 5-6=-1515/261, 6-7=-30/366, 7-8=-30/367, 8-9=-1515/261,
- 9-12=-2069/199
- BOT CHORD 2-16=-18/1657, 14-16=-21/1658, 12-14=-18/1657
- WEBS 9-14=0/736, 5-16=0/735, 6-8=-2006/329

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 14-9-8, Exterior(2) 14-9-8 to 19-2-5, Interior(1) 19-2-5 to 30-3-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

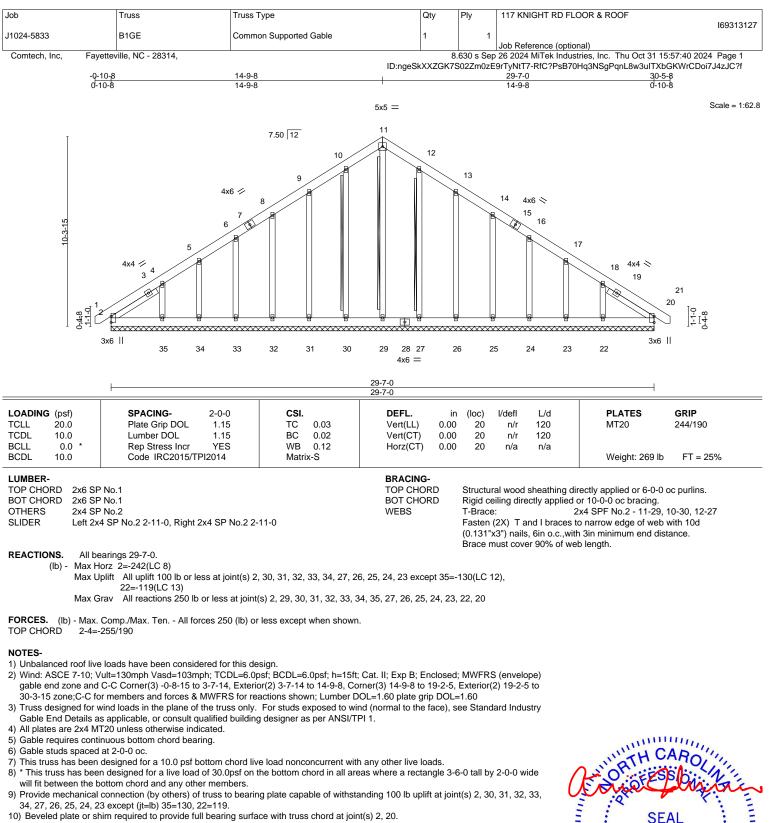
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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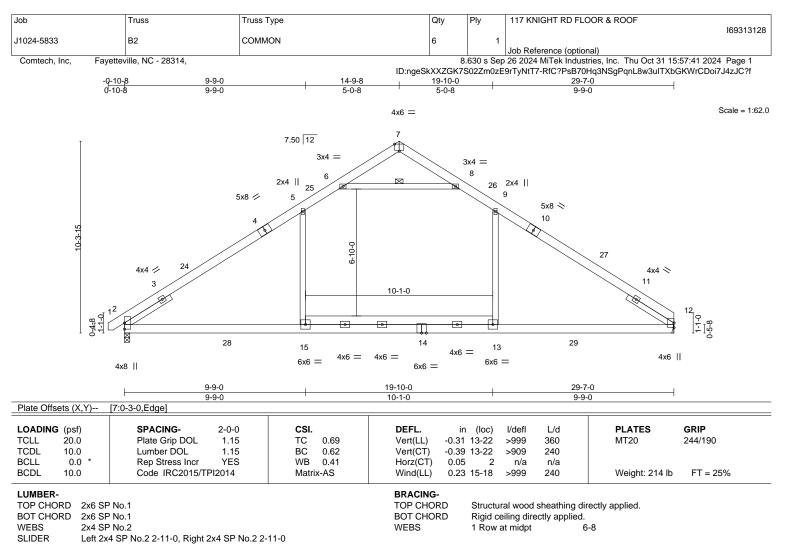




11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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REACTIONS. (size) 2=0-3-8, 12=Mechanical Max Horz 2=189(LC 9)

Max Grav 2=1551(LC 19), 12=1509(LC 20)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-5=-2070/199, 5-6=-1516/261, 6-7=-32/367, 7-8=-30/368, 8-9=-1516/263,
- 9-12=-2070/200

BOT CHORD 2-15=-32/1654, 13-15=-35/1655, 12-13=-32/1654

WEBS 9-13=0/736, 5-15=0/735, 6-8=-2008/334

#### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 14-9-8, Exterior(2) 14-9-8 to 19-2-5, Interior(1) 19-2-5 to 29-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

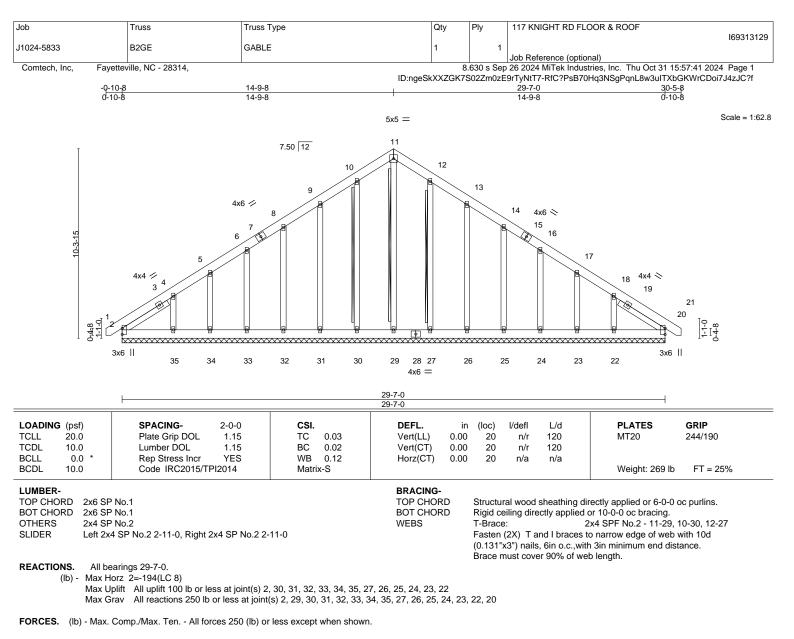
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-8-15 to 3-7-14, Exterior(2) 3-7-14 to 14-9-8, Corner(3) 14-9-8 to 19-2-5, Exterior(2) 19-2-5 to 30-3-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing

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

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

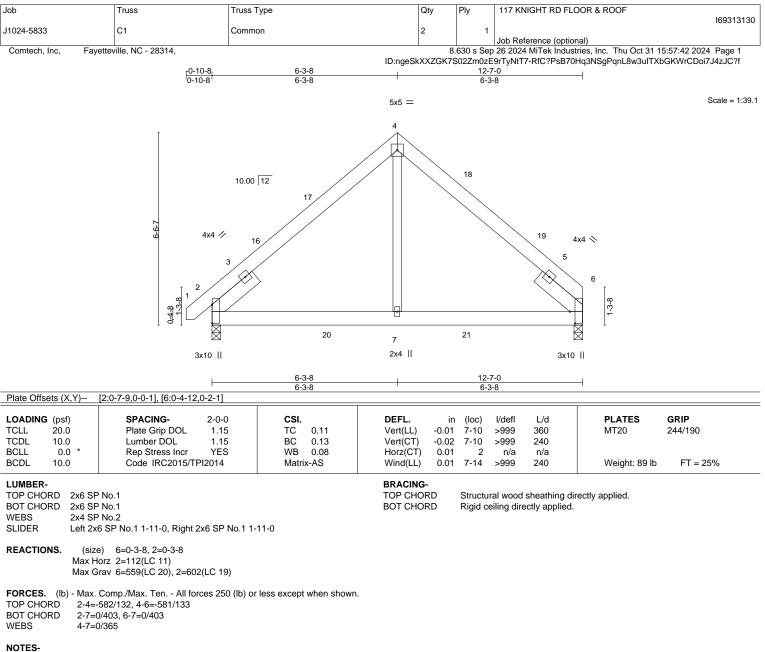
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Browide mechanical connection (by charge) of trues to hearing plate conclusion (and the true to hearing plate conclusion).

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22.

10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-14, Interior(1) 3-7-14 to 6-3-8, Exterior(2) 6-3-8 to 10-8-5, Interior(1) 10-8-5 to 12-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 30.0psf 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.

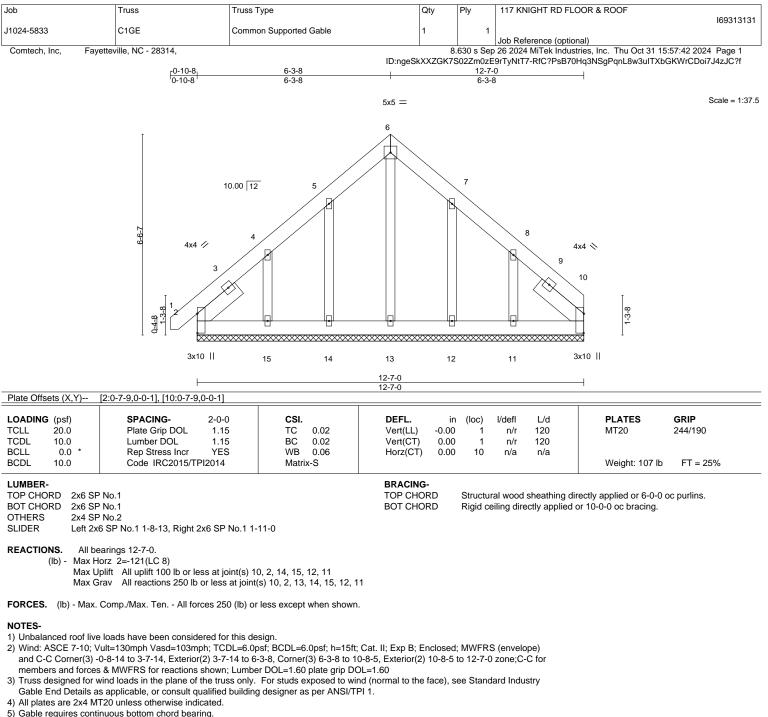
5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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818 Soundside Road



Gable requires continuous bottom
 Cable attude append at 2.0.0 ac

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

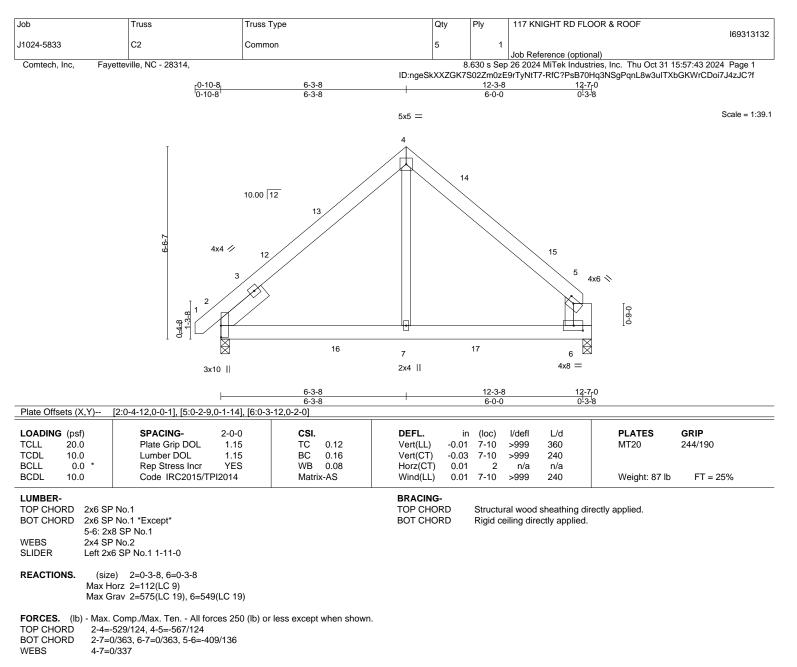
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 30.0psf 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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2, 14, 15, 12, 11.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-14, Interior(1) 3-7-14 to 6-3-8, Exterior(2) 6-3-8 to 10-8-5, Interior(1) 10-8-5 to 12-1-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 30.0psf 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.

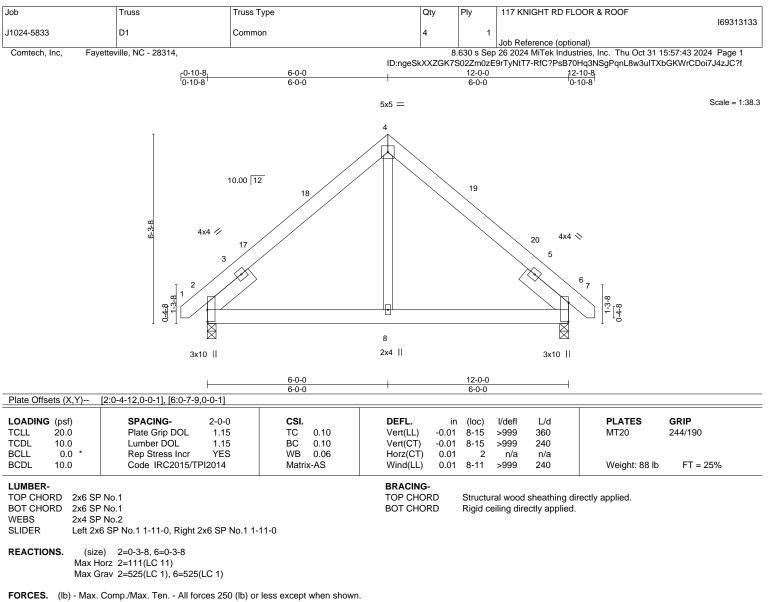
5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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818 Soundside Road



TOP CHORD 2-4=-453/129, 4-6=-453/130

BOT CHORD 2-8=0/293, 6-8=0/293

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-14, Interior(1) 3-7-14 to 6-0-0, Exterior(2) 6-0-0 to 10-4-13, Interior(1) 10-4-13 to 12-8-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

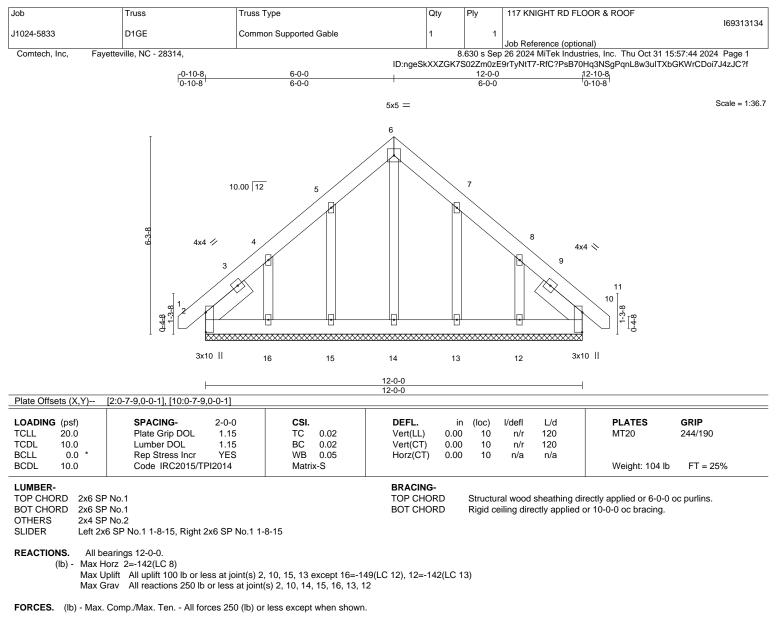
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 30.0psf 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-14 to 3-7-14, Exterior(2) 3-7-14 to 6-0-0, Corner(3) 6-0-0 to 10-4-13, Exterior(2) 10-4-13 to 12-8-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

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

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

8) * This truss has been designed for a live load of 30.0psf 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.

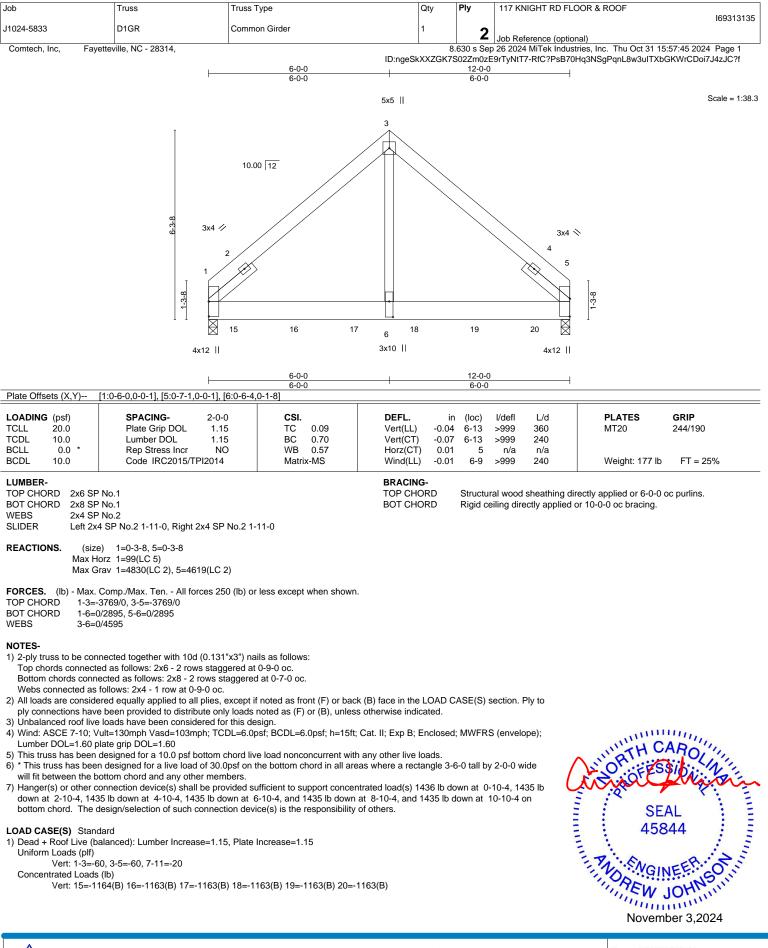
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (jt=lb) 16=149, 12=142.



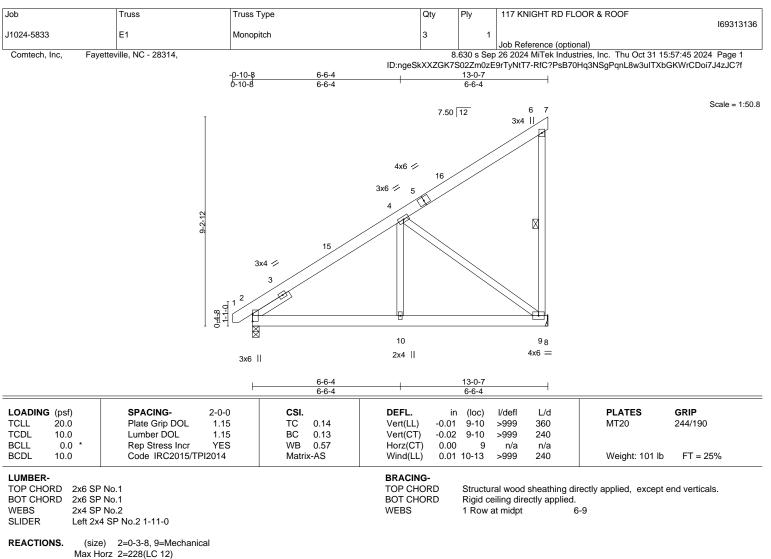
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Max Uplift 9=-97(LC 12)

Max Grav 2=556(LC 1), 9=542(LC 19)

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

TOP CHORD 2-4=-488/0

BOT CHORD 2-10=-142/456, 9-10=-142/456

WEBS 4-10=0/281, 4-9=-563/176

#### NOTES-

 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 13-0-7 zone; 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 30.0psf 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.

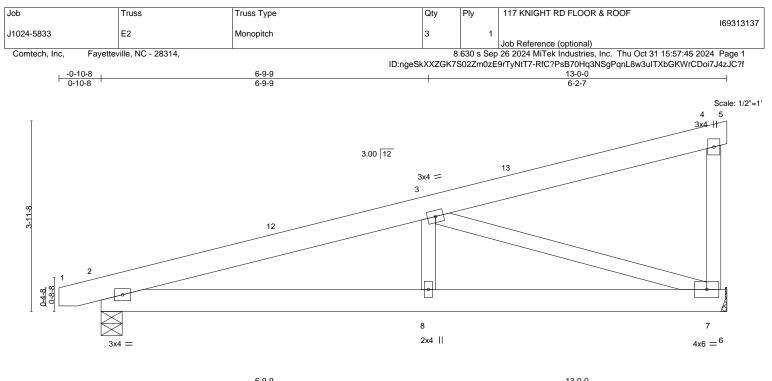
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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		6-9-9				6-2-7				
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in (I	loc) l	l/defl L/d	PLATES	GRIP		
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL)	-0.02 8	3-11 >	>999 360	MT20	244/190		
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT)	-0.04 8	3-11 >	>999 240				
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT)	0.01	7	n/a n/a				
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.02 8	3-11 >	>999 240	Weight: 79 lb	FT = 25%		

BRACING-

TOP CHORD

BOT CHORD

# LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

REACTIONS. 2=0-5-4, 7=Mechanical (size) Max Horz 2=94(LC 8)

Max Uplift 2=-25(LC 8), 7=-30(LC 12) Max Grav 2=551(LC 1), 7=519(LC 1)

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

TOP CHORD 2-3=-1000/88

BOT CHORD 2-8=-161/934, 7-8=-161/934

WEBS 3-8=0/262, 3-7=-954/161

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-3 to 3-8-10, Interior(1) 3-8-10 to 13-0-0 zone;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 30.0psf 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) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



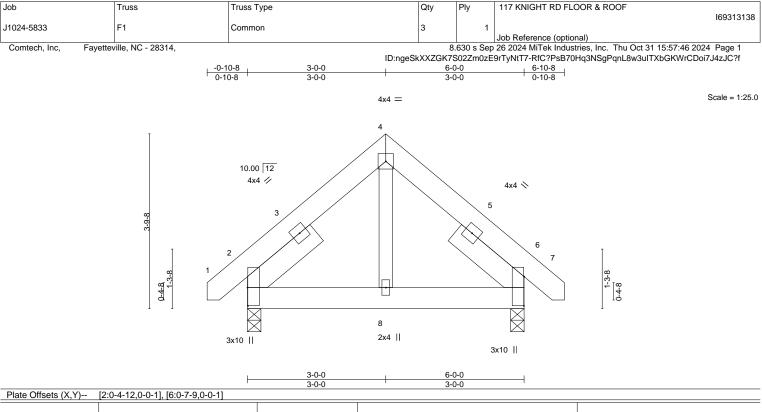
Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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818 Soundside Road



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	0.03	Vert(LL)	-0.00	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-AS	Wind(LL)	0.00	11	>999	240	Weight: 52 lb	FT = 25%

#### LUMBER-

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.2SLIDERLeft 2x6 SP No

2x4 SP No.2 Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=62(LC 11)

Max Grav 2=285(LC 1), 6=285(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.

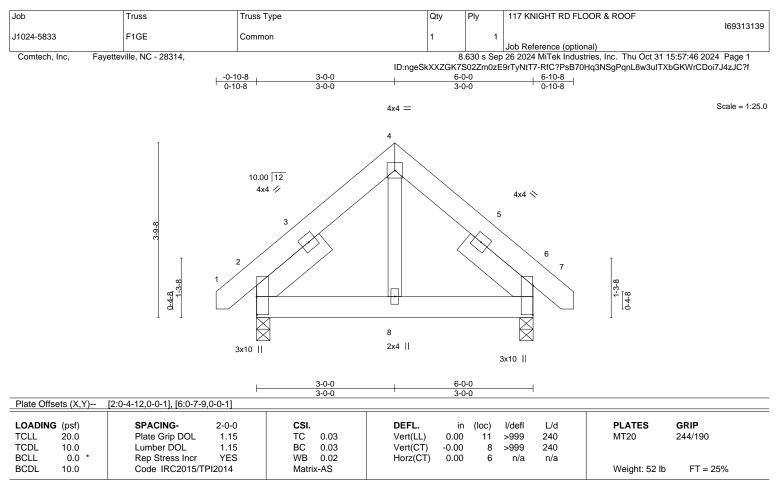
Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 30.0psf 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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#### LUMBER-

 TOP CHORD
 2x6 SP No.1

 BOT CHORD
 2x6 SP No.1

 WEBS
 2x4 SP No.2

 SLIDER
 Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=77(LC 11) Max Uplift 2=-33(LC 12), 6=-33(LC 13) Max Grav 2=285(LC 1), 6=285(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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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) 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 30.0psf 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.

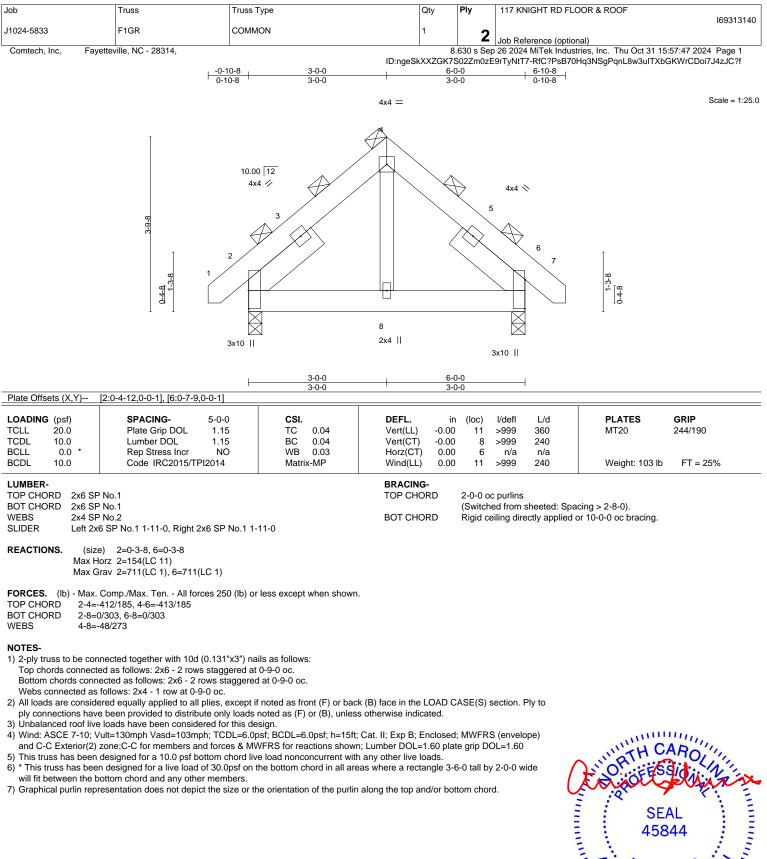
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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tot il         56-0           Plate Offsets (X,Y)         (6.0-1-6.0-3-0)           LoADING (psf) TCLL 20.0 TCLL 20.0 TCLL 20.0 Code (RC2015/TPI2014         SPACING- 2-0-0         CSI.         DEFL in (loc) 'Idefi L/d Vert(LL) -0.0 'E-7 -5999 360         MT20 244/190           BCLL 0.0 'Rep Stress Incr         NO         WB 0.00         Horz(CT) -0.02 6-7 -5999 320         Weight: 17/1 b         FT = 25%           LUMBER- TOP CHORD 2x8 SP No.1 BCLL 0.0 'Rep Stress Incr         NO         WB 0.00         Horz(CT) -0.00 6-7 -5999 240         Weight: 17/1 b         FT = 25%           LUMBER- TOP CHORD 2x8 SP No.1 BCDT ChORD 2x8 SP No.1 BCT CHORD 2x8 SP No.1 BCT CHORD 2x8 SP No.1 BCT CHORD 2x8 SP No.1 BCT CHORD 2x8 SP No.1 Mac Grav 71-559(LC 2), 6-1588(LC 3)         BRACING- TOP CHORD Rigid celing directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 2-7, 3-6           REACTION: Mac Grav 71-559(LC 2), 6-1588(LC 3)         BRACING- TOP CHORD 2x4 SP No.2         WEBS 1 Row at midpt 2-7, 3-6           REACTION: Mac Grav 71-559(LC 2), 6-1588(LC 3)         WEBS 1 Row at midpt 2-7, 3-6         2-7, 3-6           Not Grave 2x4 SP No.1 BCT CHORD 2x4 SP No.2           REACTION: Mac Grav 71-559(LC 2), 6-1588(LC 3)         Mac Grav 71-559(LC 3)         SP No.1 BCT CHORD 2x4 SP No.2         SP No.1 BCT CHORD 2x4 SP No.2           SP Not 1         SP Not 1         SP Not 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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6-6-6			- 7 9	10 11 6.5				
Plate Offsets (XY)-       [6:0-1:6:0-3:0]         Defect Offsets (XY)-         Colspan="2">Defect offsets (XY)-         Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"         Colspan="2"<								
Top       Feed         Plate Offsets (X,Y)-       (6:0-1-8,0-3-0)         LOADING (psf)       SPACING-       2-0-0       CSI.         TCLL       20.0       Plate Grip DOL       1.15       TC       0.08         Vert(C1)       -0.01       6-7       >999       360       MT20       244/190         BCDL       0.0       Rep Stress Incr       NO       WB       0.00       Horz(C1)       -0.00       6       r/a       n/a         BCDL       10.0       Code IRC2015/TPI2014       Matrix-MP       Wind(LL)       0.00       6-7       >999       240       Weight: 171 lb       FT = 25%         UMBER       TOP CHORD       246 SP No.1       BRACING-       TOP CHORD       2-0-0 op putlins: 1-4, except end verticals.         BOT CHORD       246 SP No.1       Size       TOP CHORD       2-0-0 op putlins: 1-4, except end verticals.         BOT CHORD       246 SP No.1       Size       TOP CHORD       Rigid calling directly applied or 10-0-0 corearing.         WEBS       2.26 SP No.1       Size       THOR - TaS39(LC 2), 6=1589(LC 2)       FTOP CHORD       Rigid calling directly applied or 10-0-0 corearing.         VD 2-10 Vibr Java       Csize       THO CHORD       Rigid calling directly applied or 10-0-0 corearing.			4x0					
LOADING (pst) TCLL 20.0 TCLL 20.0 TCLL 20.0 TCLL 0.0       SPACING- Plate Grip DOL 1.15 Rep Stress Incr       CSI. NO       DEFL. Wert(CT)       in       (loc)       //deft       L/d         BCLL 0.0       Umber DOL Code IRC2015/TPI2014       1.15 Matrix-MP       BC.0.29 Wert(CT)       0.00       6-7       >999       260         BCLL 10.0       Code IRC2015/TPI2014       Matrix-MP       Wind(LL)       0.00       6-7       >999       240         UMBER- TOP CHORD 2x6 SP No.1 BCT CHORD 2x6 SP No.1 EXC SP No.1 "Except" 2x6 SP No.1       Secure       BACINC- TOP CHORD 2x6 SP No.1       Weight: 171 lb       FT = 25%         REACTIONS. WEBS       (size) 7=Mechanical, 6=Mechanical Max Upiit 7=-164(LC 4), 6=-186(LC 5) Max Grav 7=1539(LC 2), 6=1589(LC 2)       BGT CHORD 2x6 SP No.1       2x0 SP No.1       2x7, 3-6         FORCES. (b) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.       WEBS       1 Row at midpt       2.7, 3-6         NOTES- 1) 2-ph truss to be connected together with 10d (0.131*37) nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 cc.       Werest Connected as follows: 2x6 - 2 rows staggered at 0-9-0 cc.         Web connected as follows: 2x6 - 1 row staggered at 0-9-0 cc.       Web connected as follows: 2x6 - 2 rows staggered at 0-9-0 cc.         Wind: ASCE 7-10: Vul=1300ph Ya26(TSB)       BCDL=6 0pst; BCDL=6 0ps								
TCLL       20.0       Plate Gip DOL       1.15       TC       0.08       Vert(C1)       -0.01       6.7       >999       240         BCLL       0.0<*	Plate Offsets (X,Y) [6:0	)-1-8,0-3-0]		1				
LUMBER- TOP CHORD       2x6 SP No.1       BRACING- TOP CHORD         WEBS       2x6 SP No.1       BOT CHORD       2:0-0 oc purlins: 1-4, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.         WEBS       2:6 SP No.1       BOT CHORD       1 Row at midpt       2-7, 3-6         REACTIONS.       (size)       7=Mechanical, 6=Mechanical Max Uplitt 7=-164(LC 4), 6=-186(LC 5) Max Grav 7=1539(LC 2), 6=1589(LC 2)       1 Row at midpt       2-7, 3-6         FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.       NOTES-       1         1) 2-ply truss to be connected together with 10d (0.131*x3*) nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x6 - 10 or yat 0-9-0 oc.       1         2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.         3) Wind: ASCE 7-10; Vult=130mph Vasd=103mph, TCDL=6.0psf; hcDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DDL=1.60 plate provent water ponding.         5) 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 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.         7) Reet to gifter(s) for truss to truss connection.       9 Orvide mechanical connection.         8) Provide mechanical conn	TCLL 20.0 TCDL 10.0 BCLL 0.0 *	Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNC	TC 0.08 BC 0.29 WB 0.00	Vert(LL) -0.01 Vert(CT) -0.02 Horz(CT) -0.00	6-7 6-7 6	>999 360 >999 240 n/a n/a	MT20	244/190
TOP CHORD       2x6 SP No.1       TOP CHORD       2-0-0 oc purlins: 1-4, except end verticals.         BOT CHORD       2x10 SP No.1       BOT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.         WEBS       2x6 SP No.1       Except*       Rigid ceiling directly applied or 10-0-0 oc bracing.         2x6: 2x4 SP No.2       Server Antibacter Antitacter Antitacter Antibacter Antitacter Antitacter An			Width A-WIF		0-7	>999 240		FT = 23 /6
<ul> <li>REACTIONS. (size) 7=Mechanical, 6=Mechanical Max Uplift 7=-164(LC 4), 6=-186(LC 5) Max Grav 7=1539(LC 2), 6=1589(LC 2)</li> <li>FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.</li> <li>NOTES-</li> <li>1) 2-ply truss to be connected together with 10d (0.131*A3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x40 - 2 rows staggered at 0-9-0 oc.</li> <li>2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.</li> <li>3) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60</li> <li>4) Provide adequate drainage to prevent water ponding.</li> <li>5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>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 2-0-0 wide will flib thewen the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>7) Refer to girder(s) for truss to truss connections.</li> <li>8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=164, 6=186.</li> <li>9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> <li>9) Untervide mechanical connection (by others) of truss to breave the orientation of the purlin along the top and/or bottom chord.</li> <li>9) Craphical purlin representation does not depict the size or the orientation of the purlin along the top 0.0402 for bottom chord.</li> </ul>	TOP CHORD2x6 SP NoBOT CHORD2x10 SP NoWEBS2x6 SP No	lo.1 o.1 *Except*		TOP CHORD BOT CHORD	Rigid ce	iling directly applied	l or 10-0-0 oc bracing.	
<ol> <li>2-ply truss to be connected together with 10d (0.131*x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.</li> <li>Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.</li> <li>All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.</li> <li>Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* 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 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>Refer to girder(s) for truss to truss connections.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=164, 6=186.</li> <li>Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> </ol>	REACTIONS. (size) Max Uplift Max Grav	7=Mechanical, 6=Mechanica 7=-164(LC 4), 6=-186(LC 5) 7=1539(LC 2), 6=1589(LC 2)	)	1.				
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 545 lb down at 0-10-12, 500 lb down and 117 lb up at 1-0-4, 544 lb down at 2-9-0, 500 lb down and 117 lb up at 3-0-4, and 545 lb down at 4-7-4, and 505 lb down and 112 lb up at 5-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.	<ol> <li>2-ply truss to be connect Top chords connected a Bottom chords connected as Bottom chords connected as folloads are considered ply connections have be</li> <li>Wind: ASCE 7-10; Vult= Lumber DOL=1.60 plate</li> <li>Provide adequate draini- 5) This truss has been des will fit between the botto</li> <li>Refer to girder(s) for tru</li> <li>Provide mechanical con 7=164, 6=186.</li> <li>Graphical purlin represe 10) Hanger(s) or other con down and 117 lb up at</li> </ol>	as follows: 2x6 - 2 rows stagg ed as follows: 2x10 - 2 rows s ows: 2x4 - 1 row at 0-9-0 oc. d equally applied to all plies, e seen provided to distribute only -130mph Vasd=103mph; TCI e grip DOL=1.60 age to prevent water ponding signed for a 10.0 psf bottom c asigned for a 10.0 psf bottom c asigned for a 10.0 psf bottom c stor a nu other mem ss to truss connections. unection (by others) of truss to entation does not depict the s nection device(s) shall be pri 1-0-4, 544 lb down at 2-9-0	ered at 0-9-0 oc. taggered at 0-9-0 oc. except if noted as front (F) or bac / loads noted as (F) or (B), unles DL=6.0psf; BCDL=6.0psf; h=15ft hord live load nonconcurrent wit psf on the bottom chord in all ar- bers, with BCDL = 10.0psf. bearing plate capable of withst ize or the orientation of the purli- poided sufficient to support conco , 500 lb down and 117 lb up at 3	s otherwise indicated. ; Cat. II; Exp B; Enclosed h any other live loads. eas where a rectangle 3-1 anding 100 lb uplift at joir h along the top and/or boi entrated load(s) 545 lb do 3-0-4, and 545 lb down at	6-0 tall by tt(s) exce ttom chorr own at 0- t 4-7-4, a	5 (envelope); 2-0-0 wide pt (jt=lb) d. 10-12, 500 lb nd 505 lb	AND ATH C	AROLINA

- =1.15, Plate Increase=1.15 u). Lumber increase=
- Uniform Loads (plf) Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-8=-20
- Concentrated Loads (lb)

Vert: 6=-505(B) 9=-628(F=-128, B=-500) 10=-627(F=-127, B=-500) 11=-128(F)



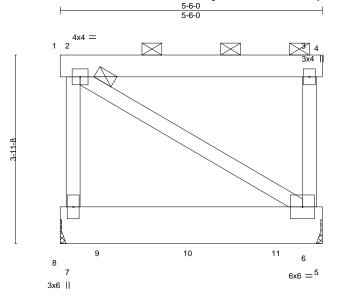
NGINEERING B RENCO

818 Soundside Road

Edenton, NC 27932

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						5-6-0						
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	0.08	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.02	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix	K-MP	Wind(LL)	0.00	6-7	>999	240	Weight: 101 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins: 1-4. except end verticals.

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

- - -

# LUMBER-

TOP CHORD2x6 SP No.1BOT CHORD2x10 SP No.1WEBS2x4 SP No.2

REACTIONS. (size) 7=Mechanical, 6=Mechanical Max Uplift 7=-65(LC 4), 6=-72(LC 5) Max Grav 7=1452(LC 2), 6=1567(LC 2)

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

#### NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
- Top chords connected as follows: 2x4 1 row at 0-9-0 oc, 2x6 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 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 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 6.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 552 lb down at 0-10-12, 499 lb down and 50 lb up at 1-0-4, 551 lb down at 2-9-0, 499 lb down and 50 lb up at 3-0-4, and 552 lb down at 4-7-4, and 504 lb down and 45 lb up at 5-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

# LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-60, 3-4=-20, 5-8=-20 Concentrated Loads (lb)

Vert: 6=-504(F) 9=-629(F=-499, B=-130) 10=-628(F=-499, B=-129) 11=-130(B)

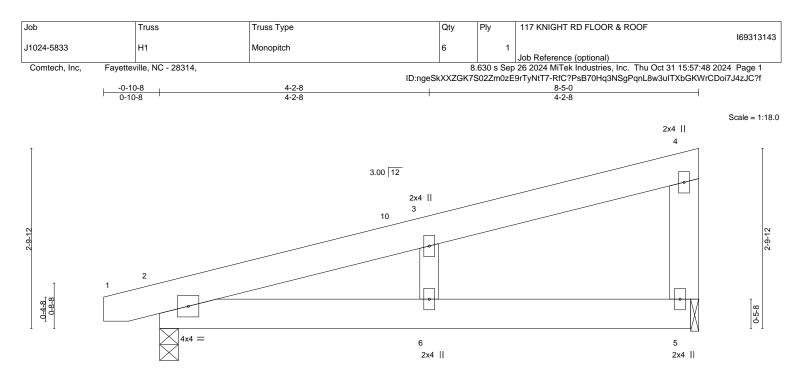


Scale: 1/2"=1

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⁸¹⁸ Soundside Road Edenton, NC 27932



<u>8-5-0</u> 8-5-0								—
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. i	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.0	6 6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.12	2 6	>829	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.0	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.1	) 6	>945	240	Weight: 48 lb	FT = 25%

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied.

# LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x6 SP No.1

**REACTIONS.** (size) 2=0-3-8, 5=0-1-8

Max Horz 2=62(LC 8) Max Uplift 2=-98(LC 8), 5=-95(LC 8) Max Grav 2=370(LC 1), 5=326(LC 1)

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

#### NOTES-

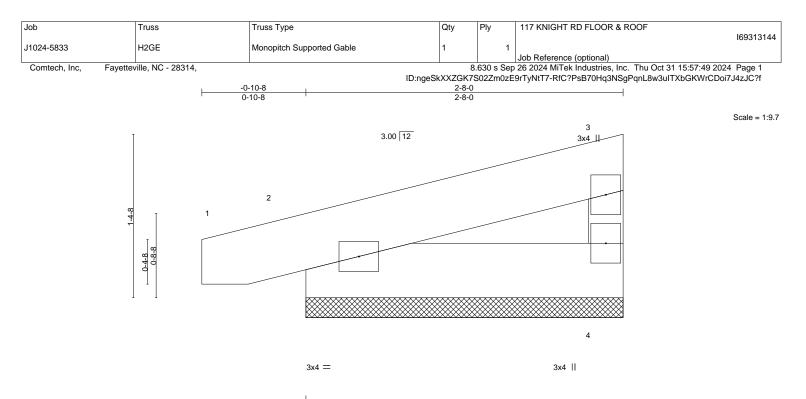
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-3 to 3-8-10, Interior(1) 3-8-10 to 8-2-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf 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) 5 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) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES G	RIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL) -0.00 1 n/r	120 MT20 24	4/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 1 n/r	120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 16 lb	FT = 25%

TOP CHORD

BOT CHORD

# LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 BOT CHORD

WEBS 2x4 SP No.2

REACTIONS. 4=2-8-0, 2=2-8-0 (size) Max Horz 2=31(LC 12) Max Uplift 4=-22(LC 12), 2=-43(LC 8) Max Grav 4=95(LC 1), 2=147(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; 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 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 30.0psf 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) 4, 2.

Structural wood sheathing directly applied or 2-8-0 oc purlins,

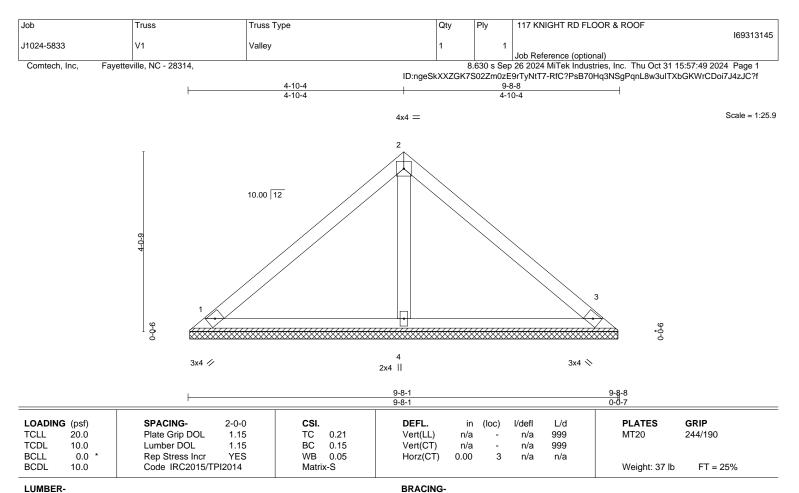
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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818 Soundside Road

and an annual of Yuunununun SEAL 5844 .10 munn November 3,2024



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD

2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. 1=9-7-10, 3=9-7-10, 4=9-7-10 (size) Max Horz 1=73(LC 11) Max Uplift 1=-8(LC 13), 3=-15(LC 13) Max Grav 1=190(LC 1), 3=190(LC 1), 4=332(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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf 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.

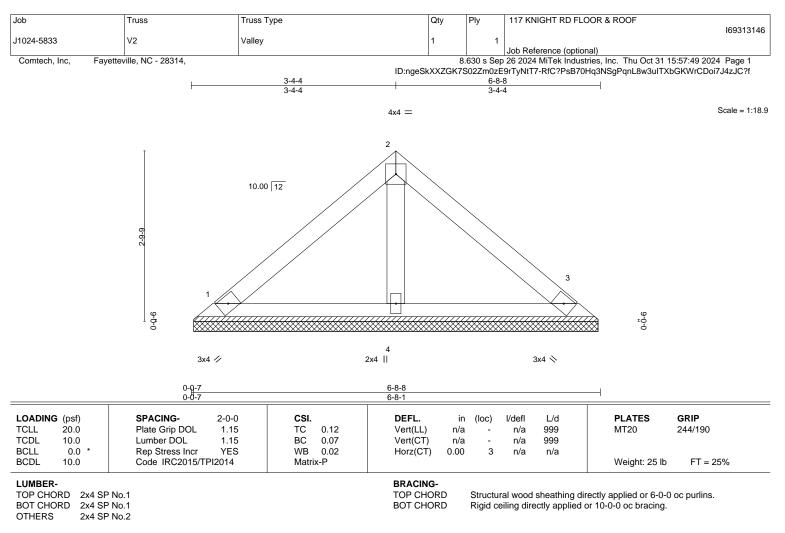
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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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REACTIONS. (size) 1=6-7-10, 3=6-7-10, 4=6-7-10 Max Horz 1=49(LC 11) Max Uplift 1=-11(LC 13), 3=-15(LC 13) Max Grav 1=137(LC 1), 3=137(LC 1), 4=199(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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf 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.

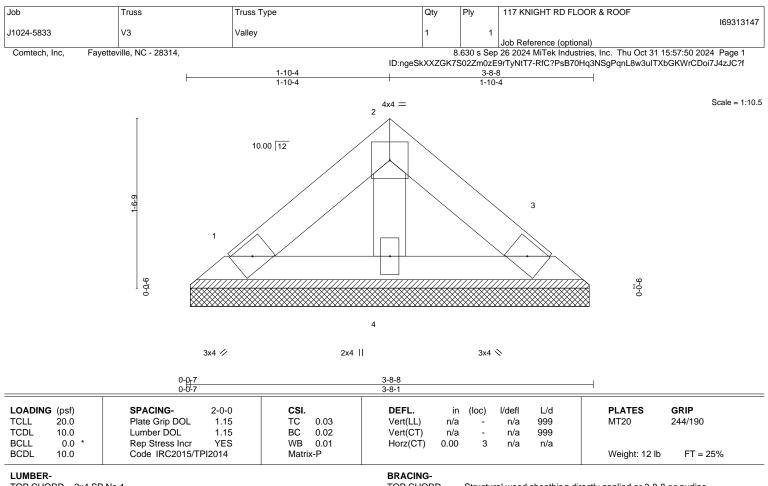
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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818 Soundside Road



TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 SP No.2

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-8-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-7-10, 3=3-7-10, 4=3-7-10 Max Horz 1=24(LC 9) Max Uplift 1=-5(LC 13), 3=-7(LC 13) Max Grav 1=67(LC 1), 3=67(LC 1), 4=98(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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

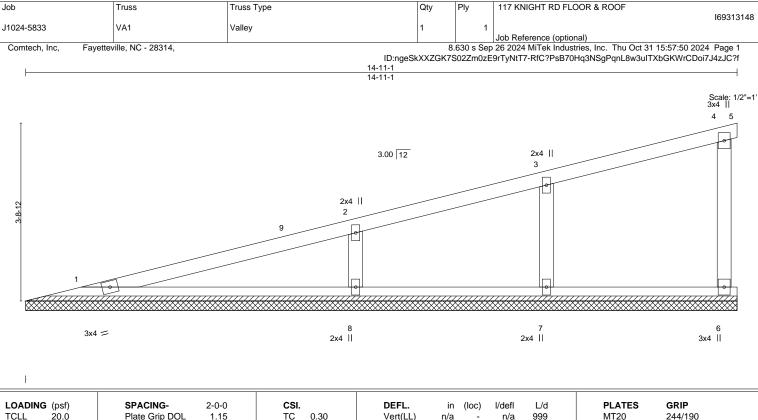
3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf 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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LUMBER-     BRACING-       TOP CHORD 2x4 SP No.1     TOP CHORD 2x4 SP No.1       BOT CHORD 2x4 SP No.1     TOP CHORD 2x4 SP No.1       WEBS 2x4 SP No.2     BOT CHORD RD 2x4 SP No.2	TCLL TCDL BCLL BCDL	20.0 10.0 0.0 * 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	TC 0.30 BC 0.19 WB 0.04 Matrix-S	Vert(LL) n/ Vert(CT) n/ Horz(CT) -0.0	a - n/a 999	MT20 244/190 Weight: 53 lb FT = 25%
	TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1				except end verticals.		

# **REACTIONS.** All bearings 14-11-1.

(lb) - Max Horz 1=92(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 8 except 5=-130(LC 1)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=291(LC 1), 7=268(LC 1), 8=475(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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TOP CHORD 4-6=-256/99
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WEBS 2-8=-346/151

#### NOTES-

 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 1-2-3 to 5-7-0, Interior(1) 5-7-0 to 14-11-1 zone; 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 30.0psf 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

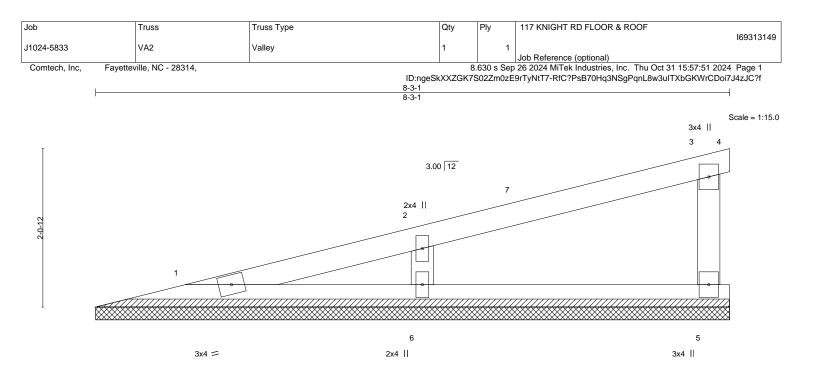
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 8 except (jt=lb) 5=130.



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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	<b>CSI.</b> TC 0.12 BC 0.09 WB 0.03 Matrix-P	<b>DEFL.</b> i Vert(LL) n/ Vert(CT) n/ Horz(CT) -0.0	′a - n/a 999	PLATES         GRIP           MT20         244/190           Weight: 26 lb         FT = 25%
BOT CHORD 2x4 S WEBS 2x4 S	P No.1 P No.1 P No.2 P No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di except end verticals. Rigid ceiling directly applied	rectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.

REACTIONS. All bearings 8-3-1.

Max Horz 1=48(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 4=-178(LC 1)

Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 5=329(LC 1), 6=321(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 3-5=-300/111

TOP CHORD

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 1-2-3 to 5-7-0, Interior(1) 5-7-0 to 8-3-1 zone;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.

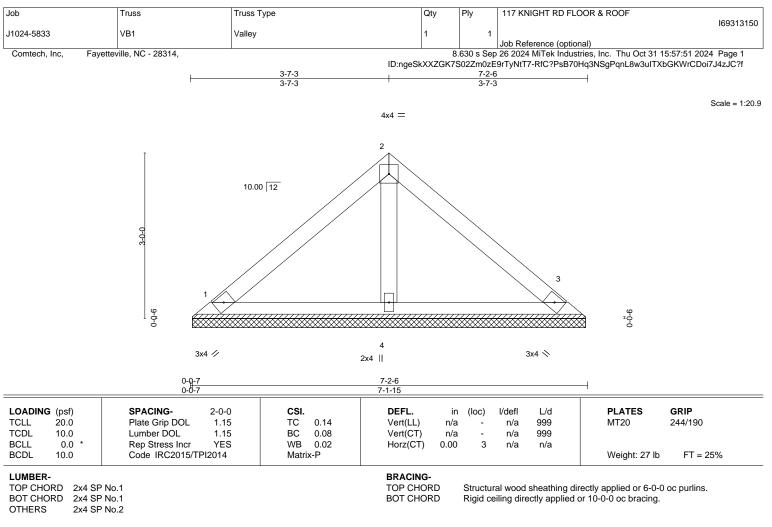
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 4=178



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REACTIONS. (size) 1=7-1-7, 3=7-1-7, 4=7-1-7 Max Horz 1=-53(LC 8) Max Uplift 1=-12(LC 13), 3=-16(LC 13) Max Grav 1=148(LC 1), 3=148(LC 1), 4=216(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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

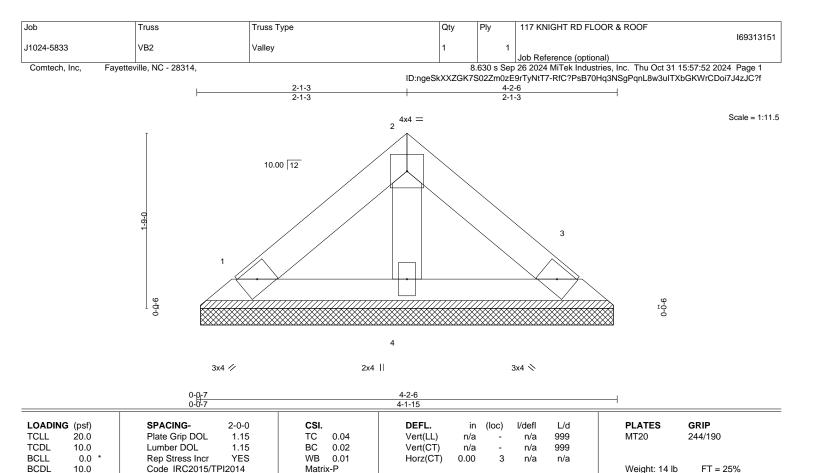
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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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A MiTek Affili 818 Soundside Road



TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 SP No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-2-6 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-1-7, 3=4-1-7, 4=4-1-7 Max Horz 1=-28(LC 8) Max Uplift 1=-6(LC 13), 3=-9(LC 13) Max Grav 1=78(LC 1), 3=78(LC 1), 4=114(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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf 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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