

RE: J1120-5305 Lot 45 South Creek Trenco 818 Soundside Rd Edenton, NC 27932

Site Information: Customer: Project Name: J1120-5305 Lot/Block: Address: City:

Model: Subdivision: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.3 Wind Speed: 120 mph Floor Load: N/A psf

This package includes 30 individual, dated Truss Design Drawings and 1 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E15040880	A1	11/17/2020	21	E15040900	C2	11/17/2020
2	E15040881	A1GE	11/17/2020	22	E15040901	C3	11/17/2020
3	E15040882	A2	11/17/2020	23	E15040902	C4	11/17/2020
4	E15040883	A3	11/17/2020	24	E15040903	D1GE	11/17/2020
5	E15040884	A4	11/17/2020	25	E15040904	VC1	11/17/2020
6	E15040885	A5	11/17/2020	26	E15040905	VC2	11/17/2020
7	E15040886	A5A	11/17/2020	27	E15040906	VC3	11/17/2020
8	E15040887	A6	11/17/2020	28	E15040907	VC4	11/17/2020
9	E15040888	A7	11/17/2020	29	E15040908	VC5	11/17/2020
10	E15040889	A8	11/17/2020	30	E15040909	Z1	11/17/2020
11	E15040890	A9	11/17/2020				
12	E15040891	A10	11/17/2020				
13	E15040892	A11	11/17/2020				
14	E15040893	B1	11/17/2020				
15	E15040894	B1GE	11/17/2020				
16	E15040895	B2	11/17/2020				
17	E15040896	B3	11/17/2020				
18	E15040897	B3GE	11/17/2020				
19	E15040898	C1	11/17/2020				
20	E15040899	C1GE	11/17/2020				

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

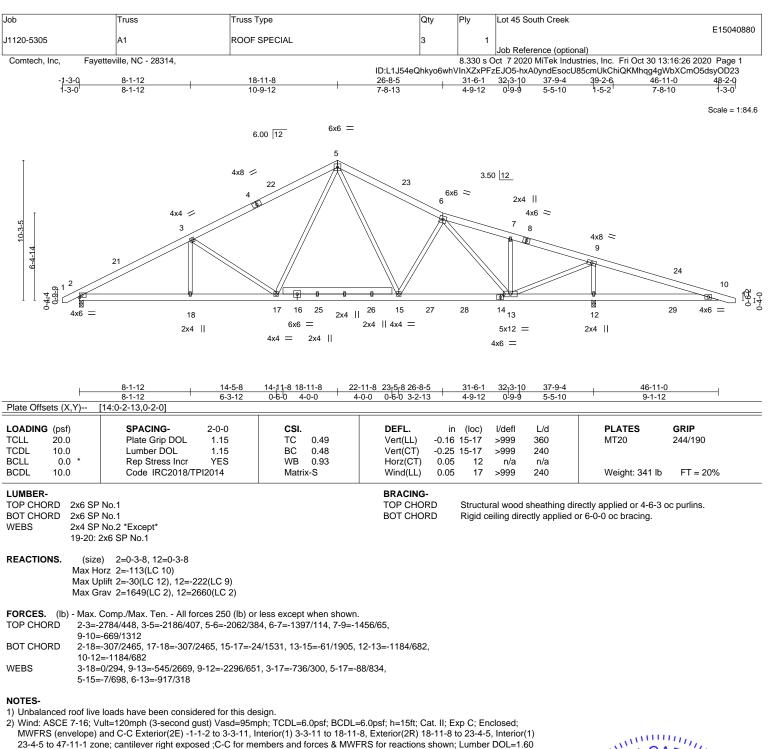
Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENCO has not independently verified the applicability of the design parameters or the design 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.



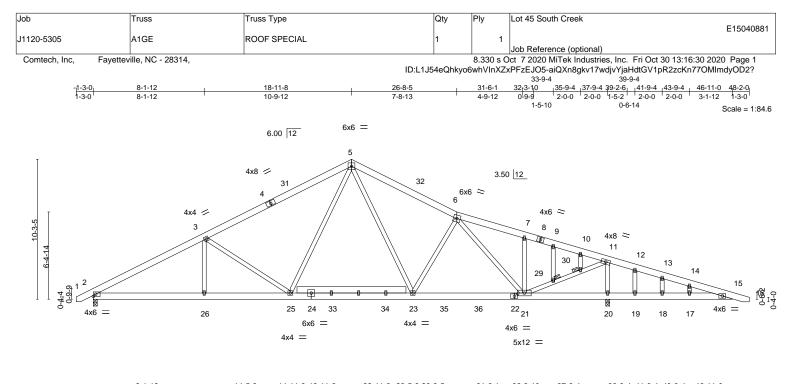


- plate grip DOL=1.60 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=222.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



818 Soundside Road Edenton, NC 27932

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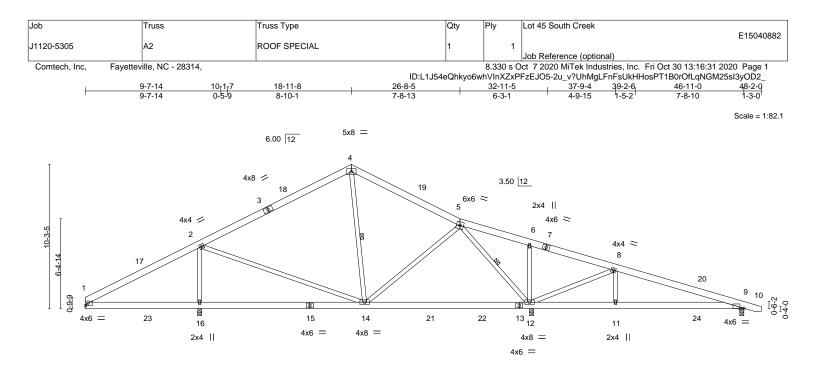
⊢	8-1-12	14-5-8	14-11-8 18-11-8		23 ₁ 5 ₁ 8 26-8-		31-6-1	32 ₁ 3-10	37-9-4	39-9-4 41-9-4 43-9-	
	8-1-12	6-3-12	0-6-0 4-0-0	4-0-0	0-6-0 3-2-1:	3 '	4-9-12	0-9-9	5-5-10	2-0-0 2-0-0 2-0-0) 3-1-12
Plate Offsets (X,Y)	[22:0-2-13,0-2-0]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 TCDL 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC 0.48 BC 0.48		Vert(LL) Vert(CT)		23-25 23-25	>999 >999	360 240	MT20	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92		Horz(CT)	-0.25	23-25	>999 n/a	240 n/a		
BCDL 10.0	Code IRC2018/		Matrix-S		Wind(LL)	0.05	25	>999	240	Weight: 352 lb	FT = 20%
LUMBER-					BRACING-						
TOP CHORD 2x6	SP No.1				TOP CHOP	RD	Structu	ral wood s	sheathing dir	ectly applied or 4-4-12	oc purlins.
	SP No.1				BOT CHOP	RD	0	0		or 6-0-0 oc bracing.	
	SP No.2 *Except*				JOINTS		1 Brace	e at Jt(s):	29, 30		
27-2	28: 2x6 SP No.1										
Max Max	size) 2=0-3-8, 20=0-3-8 x Horz 2=-173(LC 17) x Uplift 2=-224(LC 12), 20= x Grav 2=1649(LC 2), 20=:										
TOP CHORD 2-3 9-1	ax. Comp./Max. Ten All fe 3=-2784/362, 3-5=-2186/30 10=-1407/147, 10-11=-141 4-15=-617/1228	08, 5-6=-2062/2	83, 6-7=-1357/190, 7·	-9=-1347		44,					
BOT CHORD 2-2	26=-390/2420, 25-26=-390 -20=-1177/630, 18-19=-11	,	,	,	1=-1177/630	,					
WEBS 3-2	26=0/294, 11-20=-2235/43 21=-313/163, 6-21=-905/17	9, 3-25=-736/32	26, 5-25=-106/825, 5-2	23=-81/6							
NOTES- 1) Unbalanced roof I	live loads have been consi	dered for this d	esian								

- for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=224, 20=508.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

C anninnin ann Annun ministra SEAL 036322 C GI A. GIL October 30,2020

818 Soundside Road Edenton, NC 27932

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	8-0-0 8-0-0	<u>19-10</u> 11-10		31-9-9 11-10-1			37-9-4 5-11-11	46-11-0 9-1-12	
ate Offsets (X,Y)	[9:0-3-5,Edge]			I.				1	
OADING (psf) CLL 20.0 CDL 10.0 CLL 0.0 CDL 10.0	SPACING- Plate Grip DO Lumber DOL Rep Stress Ir Code IRC20	1.15 ncr YES	CSI. TC 0.52 BC 0.46 WB 0.77 Matrix-S		in (loc -0.19 12-1 -0.27 12-1 0.01 0.07 9-1	4 >999 4 >999 9 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 313 lb	GRIP 244/190 FT = 20%
IMBER- DP CHORD 2x6 SP DT CHORD 2x6 SP EBS 2x4 SP	No.1 No.2		1	BRACING- TOP CHORI BOT CHORI WEBS	D Rigi		ectly applied	irectly applied or 6-0-0 or 6-0-0 or 6-0-0 oc bracing. 5-12, 4-14	oc purlins.
Max H Max U	e) 16=0-3-8, 12=0 orz 16=-113(LC 8) plift 16=-34(LC 12), rav 16=1706(LC 2);	12=-177(LC 9), 9=-							
OP CHORD 1-2=- OT CHORD 1-16= VEBS 2-16=	326/623, 2-4=-612/1 =-437/331, 14-16=-4	59, 4-5=-575/136, 5 37/330, 12-14=0/28 25/925, 5-14=0/335	less except when shown 5-6=-214/613, 6-8=-272/6 4, 11-12=-226/420, 9-11= , 8-12=-1015/685, 8-11=-	13, 8-9=-509/308 226/420					
	ult=120mph (3-seco	nd gust) Vasd=95m	sign. ph; TCDL=6.0psf; BCDL= terior(1) 4-4-13 to 18-11-						

23-4-5 to 47-11-1 zone; cantilever left exposed ; porch 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.

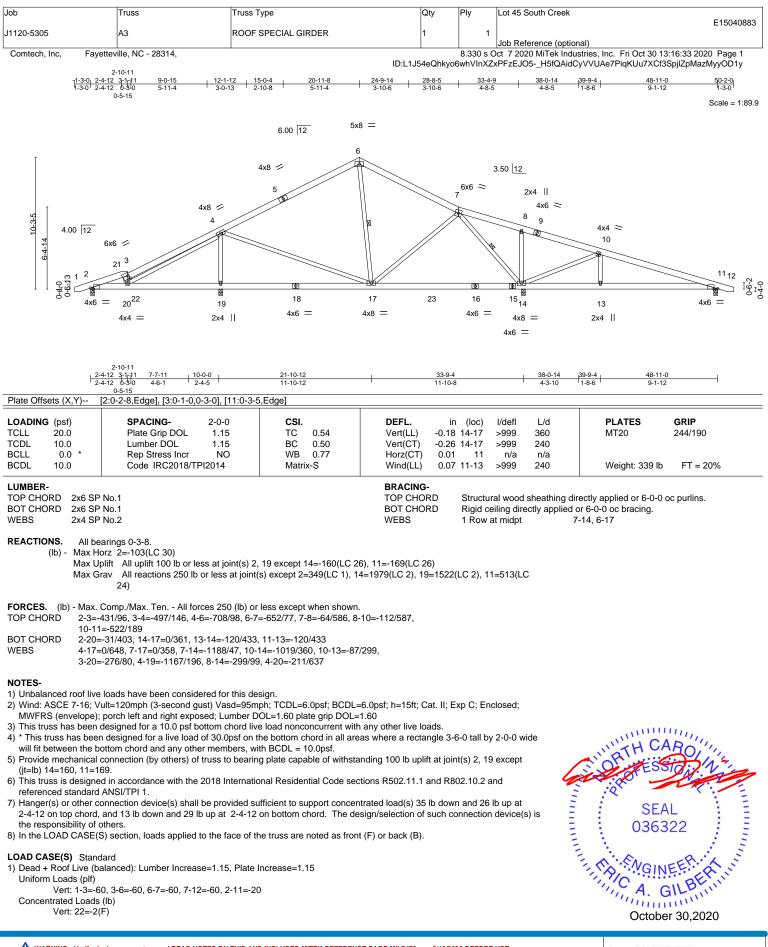
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 12=177, 9=171.

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

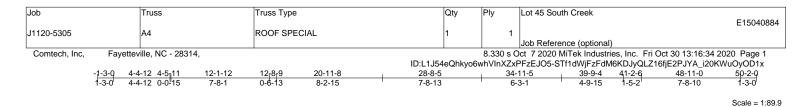


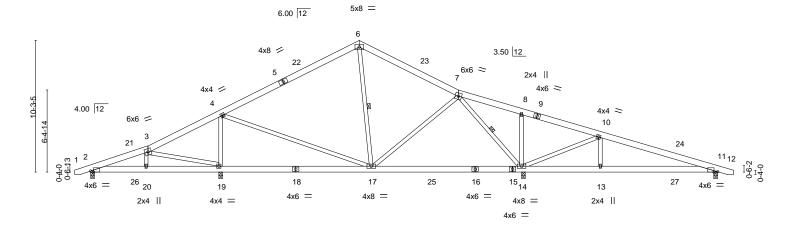
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	4-4-12 4-5 11 10-0-0	21-10-12	33-9-		39-9-4	48-11-0	
	4-4-12 0-0-15 5-6-5	11-10-12	11-10)-8	6-0-0	9-1-12	
late Offsets (X,Y) [2:0-2-8,Edge], [11:0-3-5,Edge]	1	1			1	
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	in (loc) l/de	lefi L/d	PLATES	GRIP
rcll 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.1	8 14-17 >99	99 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.2	5 14-17 >99	99 240		
3CLL 0.0 '	* Rep Stress Incr YES	WB 0.78	Horz(CT) 0.0	1 11 r	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.0	7 11-13 >99	999 240	Weight: 336 lb	FT = 20%
UMBER-			BRACING-				
OP CHORD 2x	6 SP No.1		TOP CHORD	Structural w	wood sheathing dir	ectly applied or 6-0-0 c	oc purlins.
BOT CHORD 2x	6 SP No.1		BOT CHORD	Rigid ceiling	g directly applied o	or 10-0-0 oc bracing, E	Except:
VEBS 2x						-	-
	4 SP No.2			6-0-0 oc bra	acing: 17-19.		
	4 SP N0.2		WEBS	1 Row at mi	0	-14, 6-17	
REACTIONS.	All bearings 0-3-8.		WEBS		0	-14, 6-17	
REACTIONS. (lb) - M	All bearings 0-3-8. lax Horz 2=-103(LC 17)			1 Row at m	0	-14, 6-17	
REACTIONS. (Ib) - M M	All bearings 0-3-8. lax Horz 2=-103(LC 17) lax Uplift All uplift 100 lb or less at joint(s) 1		4=-162(LC 9), 11=-169(1 Row at mi LC 9)	nidpt 7	-14, 6-17	
REACTIONS. (Ib) - M M	All bearings 0-3-8. lax Horz 2=-103(LC 17) lax Uplift All uplift 100 lb or less at joint(s) 1 lax Grav All reactions 250 lb or less at joint		4=-162(LC 9), 11=-169(1 Row at mi LC 9)	nidpt 7	-14, 6-17	
REACTIONS. (Ib) - M M	All bearings 0-3-8. lax Horz 2=-103(LC 17) lax Uplift All uplift 100 lb or less at joint(s) 1		4=-162(LC 9), 11=-169(1 Row at mi LC 9)	nidpt 7	-14, 6-17	
REACTIONS. (Ib) - M M M	All bearings 0-3-8. lax Horz 2=-103(LC 17) lax Uplift All uplift 100 lb or less at joint(s) 1 lax Grav All reactions 250 lb or less at joint 28)	(s) except 2=399(LC 2), 1	4=-162(LC 9), 11=-169(9=1446(LC 2), 14=199(1 Row at mi LC 9)	nidpt 7	-14, 6-17	
REACTIONS. (Ib) - M M M FORCES. (Ib) - I	All bearings 0-3-8. lax Horz 2=-103(LC 17) lax Uplift All uplift 100 lb or less at joint(s) 1 lax Grav All reactions 250 lb or less at joint 28) Max. Comp./Max. Ten All forces 250 (lb) or	(s) except 2=399(LC 2), 1 less except when shown	4=-162(LC 9), 11=-169(9=1446(LC 2), 14=199(1 Row at mi LC 9)	nidpt 7	-14, 6-17	
REACTIONS. (lb) - M M M FORCES. (lb) - I	All bearings 0-3-8. lax Horz 2=-103(LC 17) lax Uplift All uplift 100 lb or less at joint(s) 1 lax Grav All reactions 250 lb or less at joint 28) Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-476/222, 4-6=-728/171, 6-7=-678/163, 7	(s) except 2=399(LC 2), 1 less except when shown	4=-162(LC 9), 11=-169(9=1446(LC 2), 14=199(1 Row at mi LC 9)	nidpt 7	-14, 6-17	
REACTIONS. (lb) - M M M FORCES. (lb) - I FORCES. (lb) - I	All bearings 0-3-8. lax Horz 2=-103(LC 17) lax Uplift All uplift 100 lb or less at joint(s) 1 lax Grav All reactions 250 lb or less at joint 28) Max. Comp./Max. Ten All forces 250 (lb) or	(s) except 2=399(LC 2), 1 less except when shown 7-8=-210/574, 8-10=-268/	4=-162(LC 9), 11=-169(9=1446(LC 2), 14=199(576,	1 Row at mi LC 9)	nidpt 7	-14, 6-17	
REACTIONS. (lb) - M M M FORCES. (lb) - I FOP CHORD 30T CHORD	All bearings 0-3-8. Iax Horz 2=-103(LC 17) Iax Uplift All uplift 100 lb or less at joint(s) 1 Iax Grav All reactions 250 lb or less at joint 28) Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-476/222, 4-6=-728/171, 6-7=-678/163, 7 10-11=-530/314	(s) except 2=399(LC 2), 1 eless except when shown 7-8=-210/574, 8-10=-268/ 7, 13-14=-232/441, 11-13	4=-162(LC 9), 11=-169(9=1446(LC 2), 14=1996 576, =-232/441	1 Row at mi LC 9)	nidpt 7	-14, 6-17	

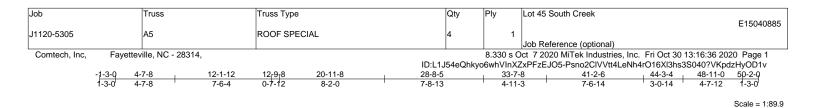
1) Unbalanced roof live loads have been considered for this design.

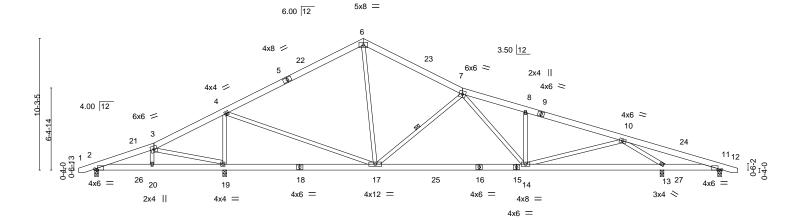
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 20-11-8, Exterior(2R) 20-11-8 to 25-4-5, Interior(1) 25-4-5 to 49-11-1 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 2=118, 14=162, 11=169.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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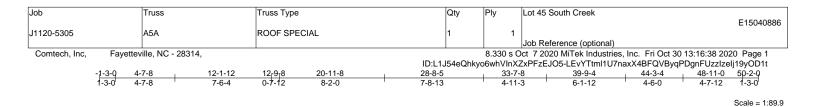
1	4-7-8 10-0-0	21-10-12	33-7-8			I-3-4	48-11-0
	4-7-8 5-4-8	11-10-12	11-8-12	2	10-	-7-12	4-7-12
ate Offsets (X,Y)	[2:0-2-8,Edge], [11:0-3-5,Edge]		1				
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.46		14-17 >999	360	MT20	244/190
DL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.35	14-17 >999	240		
LL 0.0 *	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.03	13 n/a	n/a		
DL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.06	14-17 >999	240	Weight: 340 lb	FT = 20%
MBER-			BRACING-				
	SP No.1		TOP CHORD	Structural wood	sheathing dire	ctly applied or 4-9-13	oc purlins.
	SP No.1		BOT CHORD			6-0-0 oc bracing.	
EBS 2x4 S	SP No.2		WEBS	1 Row at midpt	7-1	0	
	Uplift All uplift 100 lb or less at joint Grav All reactions 250 lb or less at			908(LC 2)			
)RCES. (lb) - Ma	x. Comp./Max. Ten All forces 250 (I	a) or less except when shown					
. ,	=-254/169, 3-4=-149/458, 4-6=-1338	· ·					
8-1	0=-2515/423, 10-11=-163/754						
OT CHORD 17-	19=-319/208, 14-17=-212/1934, 13-1	4=-324/1585, 11-13=-666/195	5				
/EBS 3-1	9=-378/328, 4-17=-187/1492, 7-17=-	056/326, 4-19=-1739/534, 8-	14=-356/175,				
7-1	4=-70/677, 10-14=0/823, 10-13=-272	5/624, 6-17=-2/703					
OTES-							
	ve loads have been considered for th	s desian.					
	Vult=120mph (3-second gust) Vasd=	5	=6.0psf: h=15ft: Cat. II: E	xp C: Enclosed:			
	e) and C-C Exterior(2E) -1-0-5 to 3-4-						
· · ·	zone: porch left and right exposed:C-	, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,			

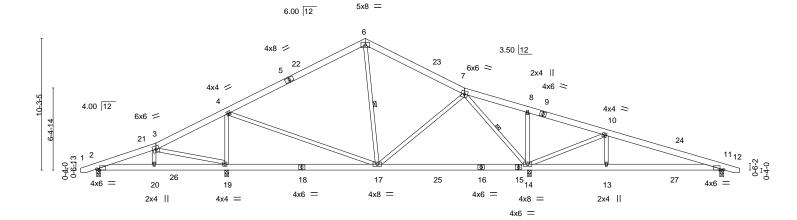
- 25-4-5 to 49-11-1 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.603) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 13 except (jt=lb) 2=132, 11=111.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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F	<u>4-7-8 10-0-0</u> <u>4-7-8 5-4-8</u>	<u>21-10-12</u> 11-10-12	33-7-8		<u>39-9-4</u> 6-1-12	44-3-4	48-11-0
Plate Offsets (X,Y)	[2:0-2-8,Edge], [11:0-3-5,Edge]	11-10-12	11-0-12	<u> </u>	0-1-12	4-0-0	4-7-12
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 IRC2018/TPI2014	CSI. TC 0.46 BC 0.46 WB 0.78 Matrix-S	Vert(LL) -0.18 Vert(CT) -0.25 Horz(CT) 0.01	n (loc) l/defl 14-17 >999 14-17 >999 11 n/a 111-13 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 336 lb	GRIP 244/190 FT = 20%
(Ib) - Max H Max U	P No.1			Rigid ceiling dir 6-0-0 oc bracin 1 Row at midpt .C 9)	rectly applied or g: 17-19. 7-	ectly applied or 6-0-0 • 10-0-0 oc bracing, 14, 6-17	
TOP CHORD 2-3= 10-1 BOT CHORD 2-20 WEBS 3-19	Comp./Max. Ten All forces 250 (lb) of -467/214, 4-6=-729/177, 6-7=-680/168, 1=-530/315 =-163/420, 19-20=-151/409, 14-17=0/37 =-425/330, 4-17=-3/569, 7-17=0/366, 4- =-1213/358, 10-14=-1019/687, 10-13=-2	7-8=-210/574, 8-10=-267/5 8, 13-14=-232/441, 11-13: 19=-1014/387, 8-14=-299/	575, =-232/441				

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-5 to 3-10-6, Interior(1) 3-10-6 to 20-11-8, Exterior(2R) 20-11-8 to 25-10-3, Interior(1) 25-10-3 to 49-11-1 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

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 2=120, 14=162, 11=169.

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



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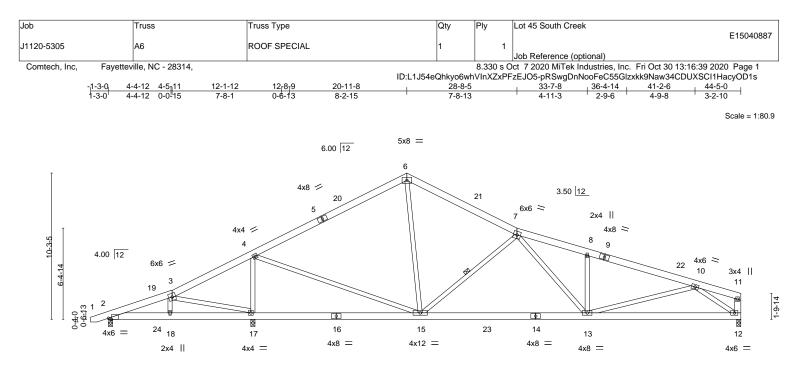


Plate Offsets (X,Y)	<u>4-4-12 4-511 10-0-0</u> <u>4-4-12 0-0-15 5-6-5</u> [2:0-2-8,Edge]	<u>21-10-12</u> 11-10-12		33-7-8 11-8-12	44-5-0 10-9-8
LOADING (psf)	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.46		(loc) l/defl L/d 13-15 >999 360	PLATES GRIP MT20 244/190
CDL 10.0 3CLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.60 WB 0.56	- ()	13-15 >999 240	10120 244/100
3CDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.05	13-15 >999 240	Weight: 317 lb FT = 20%
	P No.1 P No.1		BRACING- TOP CHORD	Structural wood sheathing dir except end verticals.	rectly applied or 4-7-12 oc purlins,
	P No.2 *Except* :: 2x6 SP No.1		BOT CHORD WEBS	Rigid ceiling directly applied of1 Row at midpt7	or 6-0-0 oc bracing. '-15
REACTIONS. (siz	ze) 2=0-3-8, 17=0-3-8, 12=0-3-8				

Max Horz 2=130(LC 12) Max Uplift 2=-124(LC 8), 17=-23(LC 9), 12=-38(LC 13) Max Grav 2=332(LC 25), 17=2189(LC 2), 12=1440(LC 2)

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

 TOP CHORD
 2-3=-278/148, 3-4=-178/427, 4-6=-1365/319, 6-7=-1385/318, 7-8=-2600/481, 8-10=-2616/411

 BOT CHORD
 15-17=-292/164, 13-15=-261/1992, 12-13=-338/1710

 WEBS
 3-17=-392/330, 4-15=-205/1489, 7-15=-1097/322, 4-17=-1738/549, 8-13=-389/189, 7-13=-76/744, 6-15=0/727, 10-13=0/784, 10-12=-1957/461

NOTES-

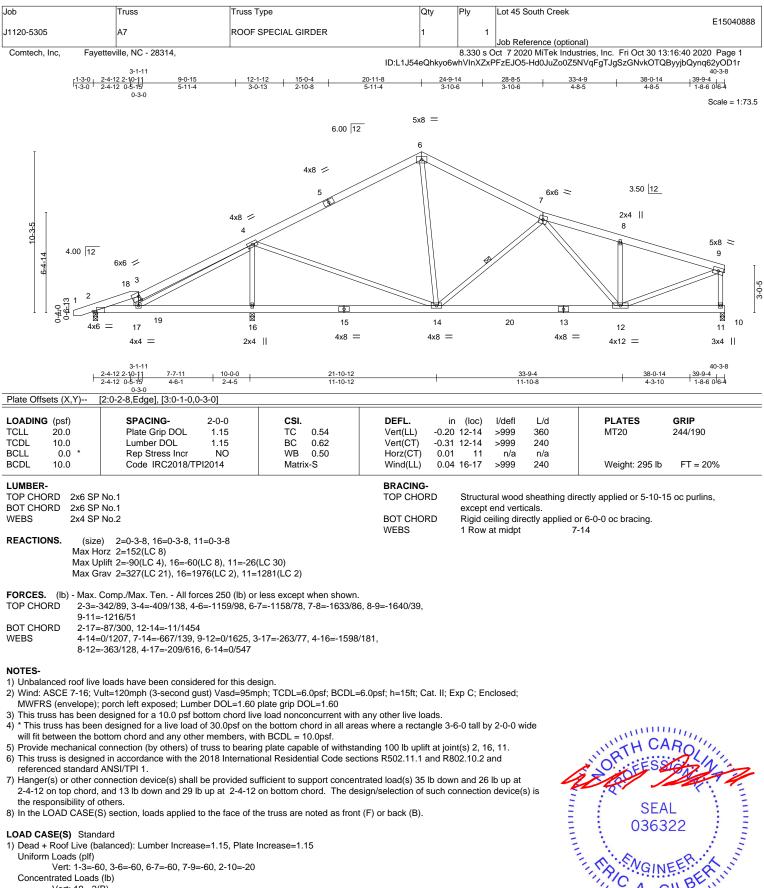
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 20-11-8, Exterior(2R) 20-11-8 to 25-4-5, Interior(1) 25-4-5 to 44-2-4 zone; porch left 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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 12 except (jt=lb) 2=124.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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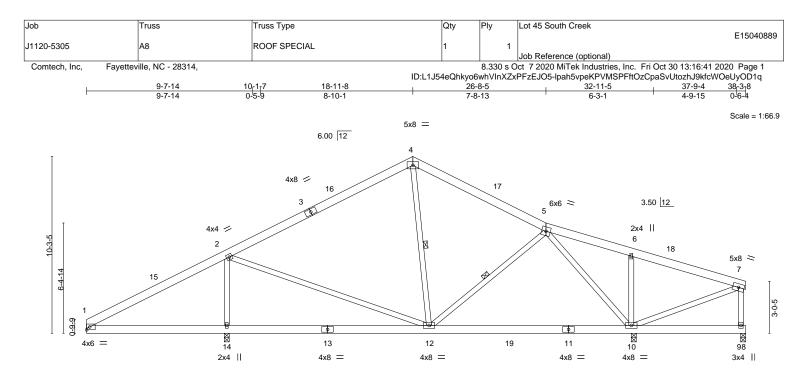


Vert: 19=-2(B)

GI 400000 October 30,2020

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	8-0-0 8-0-0		<u>19-10-12</u> 11-10-12			31-9-9 11-10-13		37-9 5-11-	
LOADING (psf) TCLL 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.52	DEFL. Vert(LL)	in (loc) -0.18 10-12	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC 0.46 WB 0.88	Vert(CT) Horz(CT)	-0.25 10-12 -0.00 10	>999 n/a	240 n/a		
3CDL 10.0	Code IRC2018/TP	12014	Matrix-S	Wind(LL)	0.01 12	>999	240	Weight: 269 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

WEBS 2x4 SP No.2 **REACTIONS.** (size) 14=0-3-8, 10=0-3-8, 9

TIONS. (size) 14=0-3-8, 10=0-3-8, 9=0-3-8 Max Horz 14=146(LC 12)

Max Uplift 14=-25(LC 12), 10=-34(LC 13), 9=-16(LC 9)

Max Grav 14=1776(LC 19), 10=1505(LC 2), 9=124(LC 26)

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

TOP CHORD 1-2=-111/633, 2-4=-681/228, 4-5=-630/236

BOT CHORD 1-14=-448/149, 12-14=-443/63, 10-12=-73/392

WEBS 2-14=-1423/439, 2-12=-49/987, 6-10=-393/192, 5-10=-864/210

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0 to 4-4-13, Interior(1) 4-4-13 to 18-11-8, Exterior(2R) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-0-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 10, 9.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.



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

5-12. 4-12

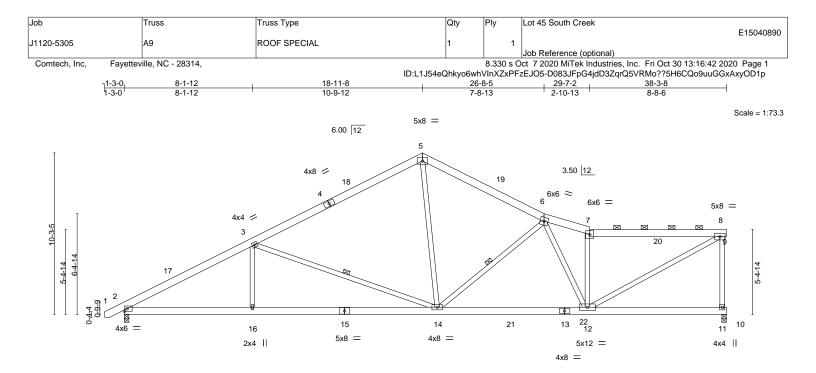
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1 Row at midpt

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ł	8-1-12	<u>19-10-12</u>	29-7-2	<u>38-3-8</u>
	8-1-12	11-9-0	9-8-6	8-8-6
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 IRC2018/TPI2014	CSI. DEFL TC 0.85 Vert(L BC 0.59 Vert(C WB 0.76 Horz(C Matrix-S Wind(L) -0.16 12-14 >999 360 T) -0.34 14-16 >999 240 CT) 0.07 11 n/a n/a	PLATES GRIP MT20 244/190 Weight: 278 lb FT = 20%

BRACING-

BOT CHORD

WFBS

LUMBER-		
TODOUODD	~ ~ ~ ~ ~	

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

REACTIONS. (size) 11=0-3-8, 2=0-3-8 Max Horz 2=192(LC 12) Max Uplift 11=-19(LC 13), 2=-16(LC 12) Max Grav 11=1683(LC 2), 2=1700(LC 2)

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

- TOP CHORD 2-3=-2935/505, 3-5=-1946/434, 5-6=-2026/458, 6-7=-2407/443, 7-8=-2305/406, 8-11=-1544/342
- BOT CHORD 2-16=-562/2548, 14-16=-562/2548, 12-14=-425/2251
- WEBS 3-16=0/433, 3-14=-1002/303, 6-14=-699/201, 7-12=-985/286, 8-12=-458/2618, 5-14=-103/1221

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2R) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2.
 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 4-4-15 oc purlins,

3-14 6-14

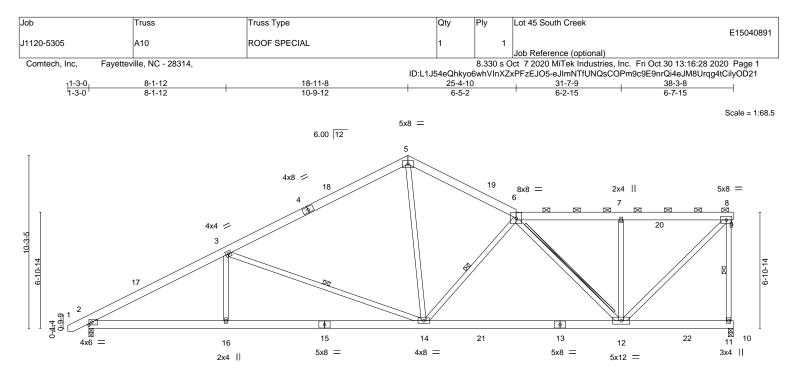
except end verticals, and 2-0-0 oc purlins (4-6-12 max.); 7-9.

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

1 Row at midpt

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	8-1-12	<u>19-10-12</u>	25-4-10	<u>31-7-9</u>	<u>38-3-8</u>
	8-1-12	11-9-0	5-5-14	6-2-15	6-7-15
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 IRC2018/TPI2014	TC 0.50 Ver BC 0.69 Ver WB 0.69 Hor	(LL) -0.26 12-14 (CT) -0.40 12-14 c(CT) 0.07 11	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES GRIP MT20 244/190 Weight: 283 lb FT = 20%

LUMBER-

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1WED2x6 SP No.1

WEBS 2x4 SP No.2

BRACING-
TOP CHORD
BOT CHORD

WFBS

Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 8-11, 3-14, 6-14 T-Brace: 2x4 SPF No.2 - 6-12 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS.	(size)	11=0-3-8, 2=0-3-0
	Max Horz	2=218(LC 12)
	Max Uplift	11=-25(LC 13), 2=-12(LC 12)
	Max Grav	11=1791(LC 2), 2=1721(LC 2)

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

 TOP CHORD
 2-3=-2973/306, 3-5=-2006/289, 5-6=-2089/308, 6-7=-1530/167, 7-8=-1528/166, 8-11=-1673/228

 BOT CHORD
 2-16=-417/2580, 14-16=-417/2580, 12-14=-293/2202

 WEBS
 3-16=-0/419, 3-14=-981/220, 6-14=-634/149, 6-12=-973/186, 7-12=-453/155, 8-12=-232/2159, 5-14=-36/1327

NOTES-

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

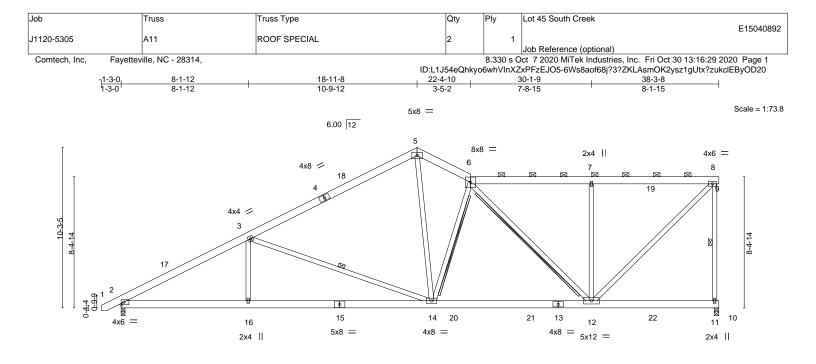
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2R) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2.
 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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ł	7-8-6 7-8-6	8-1-12 0-5-6	<u>19-10-12</u> 11-9-0	22-4-10 2-5-14	<u>30-1-9</u> 7-8-15	38-3-8 8-1-15	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/1	2-0-0 1.15 1.15 YES IPI2014	CSI. TC 0.49 BC 0.63 WB 0.70 Matrix-S	DEFL. in Vert(LL) -0.18 1 Vert(CT) -0.31 1 Horz(CT) 0.07 Wind(LL) 0.06 1	4-16 >999 240 11 n/a n/a	PLATES GRIP MT20 244/19 Weight: 293 lb FT =	

LUMBER-

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

WEBS 2x4 SP No.2

BRACING-
TOP CHORD
BOT CHORD

WFBS

Structural wood sheathing directly applied or 4-4-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-9. Divide divide directly applied to 20 oc brazing

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

 1 Row at midpt
 8-11, 3-14

 T-Brace:
 2x4 SPF No.2 - 6-12, 6-14

 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

 Brace must cover 90% of web length.

REACTIONS. (size) 11=0-3-8, 2=0-3-0 Max Horz 2=245(LC 12) Max Uplift 11=-33(LC 13), 2=-7(LC 12) Max Grav 11=1830(LC 2), 2=1735(LC 2)

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

TOP CHORD 2-3=-3008/279, 3-5=-2027/252, 5-6=-2077/302, 6-7=-1473/179, 7-8=-1471/177

BOT CHORD 2-16=-446/2607, 14-16=-446/2607, 12-14=-274/2007

WEBS 8-11=-1641/252, 3-14=-991/216, 6-12=-774/140, 7-12=-580/196, 8-12=-251/2088, 3-16=0/431, 6-14=-624/116, 5-14=-45/1405

NOTES-

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

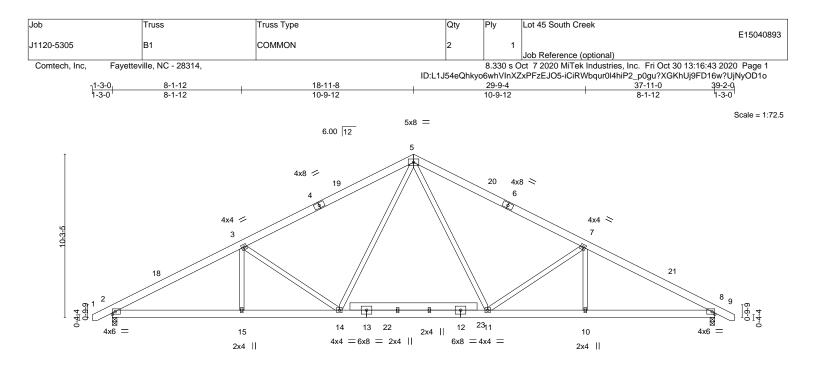
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2E) 18-11-8 to 22-4-10, Interior(1) 22-4-10 to 38-3-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2.
 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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	8-1-12 8-1-12		14-3-8 · · · · · · · · · · · · · · · · · · ·	14 ₁ 11 ₁ 8 18-1 0-8-0 4-0	-		<u>29-9-4</u> 6-1-12		37-11-0 8-1-12	
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (l	oc) l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.19 11	-14 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.31 11	-14 >999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.08	8 n/a	n/a		
BCDL 10.0	Code IRC2018/TF	912014	Matri	x-S	Wind(LL)	0.05	14 >999	240	Weight: 278 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	16-17: 2x6 SP No.1

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=-111(LC 10) Max Uplift 2=-22(LC 12), 8=-22(LC 13) Max Grav 2=1736(LC 2), 8=1736(LC 2)

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

TOP CHORD 2-3=-2958/352, 3-5=-2392/360, 5-7=-2392/360, 7-8=-2958/352

- BOT CHORD 2-15=-228/2600, 14-15=-228/2600, 11-14=-36/1677, 10-11=-220/2551, 8-10=-220/2551
- WEBS 7-10=0/280, 3-15=0/280, 3-14=-720/217, 5-14=-35/861, 5-11=-35/861, 7-11=-720/217

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2R) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 39-0-2 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, with BCDL = 10.0psf.

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

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



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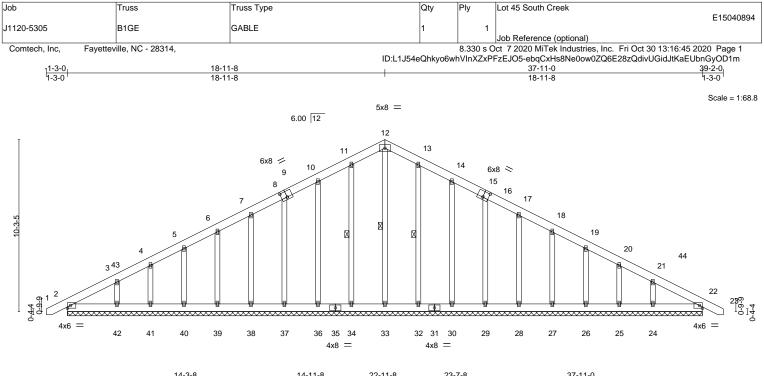


Plate Offsets (X	(,Y) [8:0-1-15,0-0-0], [9:0-4-0,0-4-4], [9:0-0-	0,0-2-12], [15:0-4-0,0-4	-4], [15:0-0-0,0-2-	12], [16:0-1-15,0-0-0]		
I	14-3-8	0-8-0	8-0-0	0-8-0	14-3-8	
1	14-3-6	141170	22-11-0	23-1-0	37-11-0	

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.04 BC 0.02 WB 0.12 Matrix-S	DEFL. Vert(LL) 0.0 Vert(CT) 0.0 Horz(CT) 0.0	0 22	n/r n/r	L/d 120 120 n/a	PLATES MT20 Weight: 325 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP			BRACING- TOP CHORD BOT CHORD				ectly applied or 6-0-0 o r 10-0-0 oc bracing.	oc purlins.

WFBS

1 Row at midpt

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

REACTIONS. All bearings 37-11-0.

(lb) - Max Horz 2=173(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 36, 37, 38, 39, 40, 41, 42, 32, 30, 29, 28, 27, 26, 25, 24

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 33, 34, 36, 37, 38, 39, 40, 41, 42, 32, 30, 29, 28, 27, 26, 25, 24

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

TOP CHORD 10-11=-103/268, 11-12=-115/302, 12-13=-115/302, 13-14=-103/268

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-1-2 to 3-3-11, Exterior(2N) 3-3-11 to 18-11-8, Corner(3R) 18-11-8 to 23-4-5, Exterior(2N) 23-4-5 to 39-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

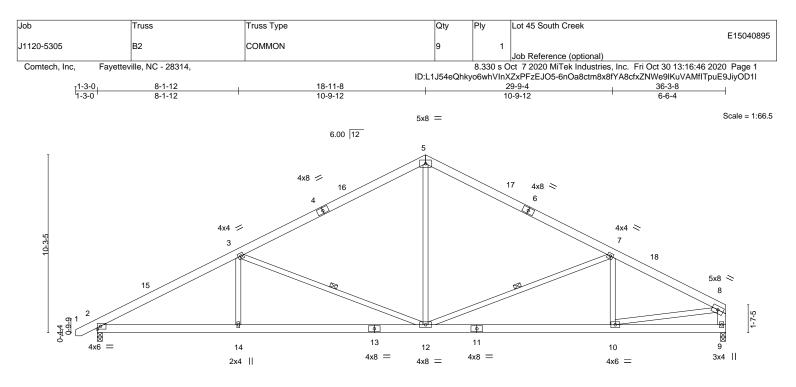
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires 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, 34, 36, 37, 38, 39, 40, 41, 42, 32, 30, 29, 28, 27, 26, 25, 24.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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12-33, 11-34, 13-32



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	8-1-12 8-1-12	<u> </u>	<u> </u>	36-3-8 6-6-4
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 IRC2018/TPI2014	TC 0.51 Vert(Ll BC 0.46 Vert(C	T) -0.20 10-12 >999 240 T) 0.06 9 n/a n/a	PLATES GRIP MT20 244/190 Weight: 254 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-8-6 oc purlins,
BOT CHORD	2x6 SP No.1		except end verticals.
WEBS	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	8-9: 2x6 SP No.1	WEBS	1 Row at midpt 3-12, 7-12

REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=127(LC 12) Max Uplift 2=-25(LC 12), 9=-4(LC 13) Max Grav 2=1512(LC 1), 9=1435(LC 1)

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

- TOP CHORD 2-3=-2573/324, 3-5=-1688/312, 5-7=-1686/316, 7-8=-2102/294, 8-9=-1370/211
- BOT CHORD 2-14=-258/2180, 12-14=-258/2180, 10-12=-203/1830
- WEBS 3-14=0/394, 3-12=-913/216, 5-12=-7/832, 7-12=-586/173, 8-10=-197/1719

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2R) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 36-0-12 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.

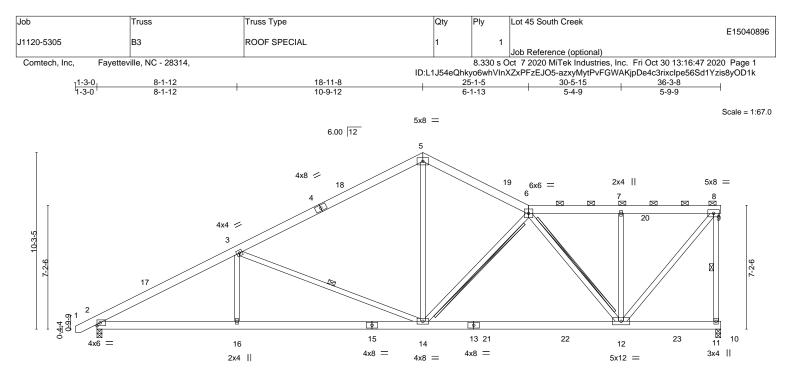
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.

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



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	8-1-12 8-1-12	<u>18-11-8</u> 10-9-12	25-1-5 6-1-13	<u> </u>	<u> </u>
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YE	0 CSI. 5 TC 0.48 5 BC 0.63	PEFL. in (loc) l/c ert(LL) -0.23 12-14 >9 ert(CT) -0.37 12-14 >9	defl L/d 999 360 999 240 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2018/TPI201	Matrix-S	/ind(LL) 0.05 14-16 >9	999 240	Weight: 273 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

WEBS 2x4 SP No.2

REACTIONS.	(size)	11=0-3-8, 2=0-3-8
	Max Horz	2=224(LC 12)
	Max Uplift	11=-21(LC 13), 2=-14(LC 12)
	Max Grav	11=1699(LC 2), 2=1632(LC 2)

FORCES. (lb)	- Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2773/286, 3-5=-1867/266, 5-6=-1790/284, 6-7=-1227/135, 7-8=-1227/135,
	8-11=-1612/217
BOT CHORD	2-16=-408/2408, 14-16=-408/2408, 12-14=-253/1813
WEBS	3-16=0/390, 3-14=-935/225, 5-14=-15/1116, 6-14=-432/107, 6-12=-937/192,
	7-12=-374/135, 8-12=-210/1927

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2R) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 36-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2.
 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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Structural wood sheathing directly applied or 4-6-7 oc purlins,

8-11, 3-14

2x4 SPF No.2 - 6-14, 6-12

except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 6-9.

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

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

Brace must cover 90% of web length.

1 Row at midpt

T-Brace:

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Edenton, NC 27932

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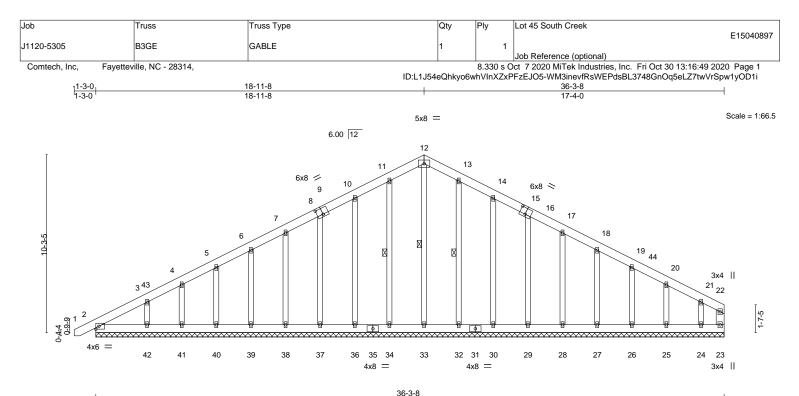


Plate Offsets (X,Y)	[8:0-1-15,0-0-0], [9:0-4-0,0-4-4], [9:0-0-0	0,0-2-12], [15:0-4-0,0-4-4],	<u>36-3-8</u> [15:0-0-0,0-2-12], [16:0-	-1-15,0-0	-0]	1
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.05 BC 0.04 WB 0.12 Matrix-S	DEFL. in Vert(LL) -0.00 Vert(CT) 0.00 Horz(CT) 0.00	(loc) 1 1	l/defl L/d n/r 120 n/r 120 n/a n/a	PLATES GRIP MT20 244/190 Weight: 316 lb FT = 20%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x6 SP OTHERS 2x4 SP	BRACING- TOP CHORD BOT CHORD WEBS	except e Rigid ce	end verticals.	ing directly applied or 6-0-0 oc purlins, plied or 10-0-0 oc bracing. 12-33, 11-34, 13-32		

REACTIONS. All bearings 36-3-8

(lb) - Max Horz 2=205(LC 12)

Max Uplift All uplift 100 b or less at joint(s) 2, 34, 36, 37, 38, 39, 40, 41, 42, 32, 30, 29, 28, 27, 26, 25 except 24=-169(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 23, 33, 34, 36, 37, 38, 39, 40, 41, 42, 32, 30, 29, 28, 27, 26, 25, 24

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

TOP CHORD 10-11=-107/295, 11-12=-118/327, 12-13=-118/327, 13-14=-107/295

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-1-2 to 3-3-11, Exterior(2N) 3-3-11 to 18-11-8, Corner(3R) 18-11-8 to 23-4-5, Exterior(2N) 23-4-5 to 36-0-12 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, 34, 36, 37, 38, 39, 40, 41, 42, 32, 30, 29, 28, 27, 26, 25 except (jt=lb) 24=169.

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



ENGINEERING BY ERENCED A MITEK Affiliate 818 Soundside Road

Edenton, NC 27932

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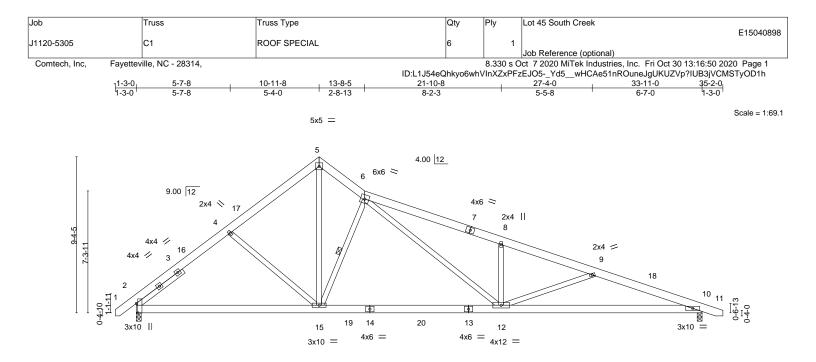


Plate Offsets (X,Y) LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCLL 0.0	I0-11-8 [2:0-6-13,Edge] SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.37	10-11-0 DEFL. Vert(LL) -(in (loc)	l/defl L/d	12-0-8 PLATES	GRIP
-OADING (psf) -CLL 20.0 -CDL 10.0 -3CLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15				l/defl L/d	PLATES	GRIP
CLL 20.0 FCDL 10.0 BCLL 0.0	Plate Grip DOL 1.15				l/defl L/d	PLATES	GRIP
TCDL 10.0 BCLL 0.0 *		TC 0.37	Vort(LL) (
BCLL 0.0 *	Lumber DOL 1.15		ven(LL) -	0.24 12-15	>999 360	MT20	244/190
		BC 0.72		0.37 12-15	>999 240		
BCDL 10.0	Rep Stress Incr YES	WB 0.50	Horz(CT) (0.07 10	n/a n/a		
	Code IRC2018/TPI2014	Matrix-S	Wind(LL) (0.09 12	>999 240	Weight: 245 lb	FT = 20%
UMBER-			BRACING-				
OP CHORD 2x6 S	SP No.1		TOP CHORD	Structu	ral wood sheathir	ng directly applied or 3-10-9	oc purlins.
BOT CHORD 2x6 S	SP No.1		BOT CHORD	Rigid c	eiling directly app	lied or 10-0-0 oc bracing.	
VEBS 2x4 S	SP No.2		WEBS	1 Řow	at midpt	6-15	
SLIDER Left 2	2x4 SP No.2 -H 3-6-1						
Max Max	ize) 2=0-3-8, 10=0-3-8 Horz 2=-194(LC 10) Uplift 10=-59(LC 9) Grav 2=1586(LC 19), 10=1552(LC 2)						
FORCES. (lb) - Max	x. Comp./Max. Ten All forces 250 (lb) or	less except when shown.					
()	=-1957/411. 4-5=-1746/401. 5-6=-1721/4						
9-1(0=-3552/685	. ,	,				
BOT CHORD 2-15	5=-216/1543, 12-15=-186/1873, 10-12=-5	69/3314					
WEBS 5-15	5=-364/1777, 6-15=-1318/378, 6-12=-255	/1517, 8-12=-464/237, 9-1	12=-411/205				

13-8-5 to 34-11-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

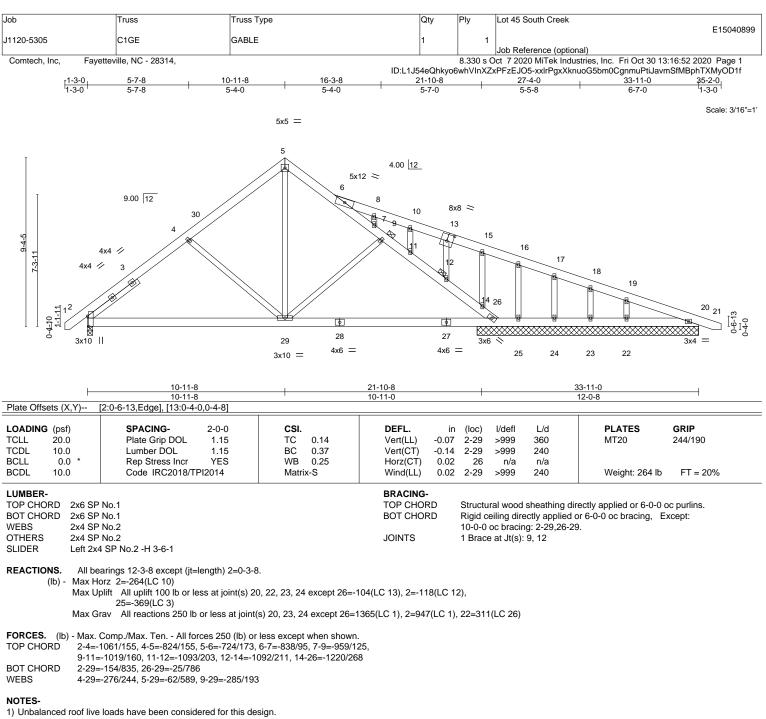
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members,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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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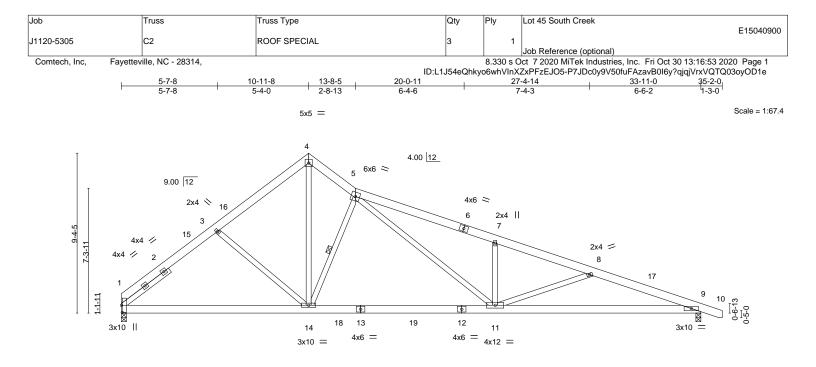
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-1-8 to 3-3-5, Interior(1) 3-3-5 to 10-11-8, Exterior(2E) 10-11-8 to 13-7-0, Interior(1) 13-7-0 to 34-11-5 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 studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 22, 23, 24 except (jt=lb) 26=104, 2=118, 25=369.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



818 Soundside Road

Edenton, NC 27932

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	10-11-	·8	i.	21-10-8	1	33-11-0			1
	10-11-	-8		10-11-0	1		12-0-8		
ate Offsets (X,	<u>Y) [1:0-5-0,0-0-9]</u>								
OADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.24 11-14		860	MT20	244/190
CDL 10.0		1.15	BC 0.72	Vert(CT)	-0.37 11-14		240		
CLL 0.0		YES	WB 0.50	Horz(CT)	0.07 9		n/a		
CDL 10.0	Code IRC2018/T	PI2014	Matrix-S	Wind(LL)	0.09 11	>999 2	240	Weight: 241 lb	FT = 20%
UMBER-				BRACING-					
	2x6 SP No.1			TOP CHOR	D Struct	ural wood she	eathing directl	y applied or 3-10-1	1 oc purlins
	2x6 SP No.1			BOT CHOR				0-0-0 oc bracing.	, ee parimer
	2x4 SP No.2			WEBS	J -	at midpt	5-14		
	Left 2x4 SP No.2 -H 3-6-1						• • •		
	(size) 1=0-3-8, 9=0-3-8 Max Horz 1=-193(LC 8) Max Uplift 9=-63(LC 9) Max Grav 1=1523(LC 19), 9=1	559(LC 2)							
	- Max. Comp./Max. Ten All fo	. ,							
OP CHORD	1-3=-1961/413, 3-4=-1749/40 8-9=-3554/683	2, 4-5=-1725/45	5, 5-7=-3242/658, 7-8=	-3213/552,					
OT CHORD	1-14=-216/1548, 11-14=-183/	1877, 9-11=-565	5/3315						
/EBS	4-14=-365/1781, 5-14=-1318/	378, 5-11=-255/	1516, 7-11=-467/239, 8	8-11=-410/205					
OTES-									
	oof live loads have been consid	lorod for this do	sian						
	7-16; Vult=120mph (3-second q			I -6 Opef: b-15ft: Co		nelocod:			
WIND. ASCE	<i>i</i> -ro, vuit=rzompri (3-second g	jusi) vasu=95111	JII, ICDL=0.00SI, DCD	$L=0.0$ µSI, $\Pi=15\Pi$, U2	и. п, Exp С, E	nciosea,			

 Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-11-8, Exterior(2E) 10-11-8 to 13-8-5, Interior(1) 13-8-5 to 35-0-13 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

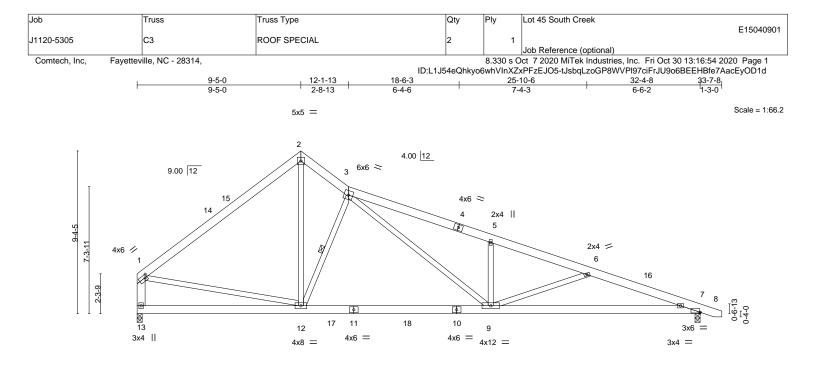
will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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	9-5-0 9-5-0		-4-0		<u>32-4-8</u> 12-0-8		
Plate Offsets (X,	Y) [1:0-1-8,0-2-0], [7:0-0-4,0-0-8]						
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/d	defl L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.22		999 360	MT20	244/190
CDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.35	9-12 >9	999 240		
BCLL 0.0		WB 0.50	Horz(CT) 0.05	7	n/a n/a		
3CDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.08	9 >9	999 240	Weight: 235 lb	FT = 20%
UMBER-	·		BRACING-				
OP CHORD	2x6 SP No.1		TOP CHORD	Structural	wood sheathing dire	ectly applied or 4-0-6 o	oc purlins,
BOT CHORD	2x6 SP No.1			except end	d verticals.		
	2x4 SP No.2 *Except*		BOT CHORD			r 10-0-0 oc bracing.	
	1-13: 2x6 SP No.1		WEBS	1 Row at n	nidpt 3-	12	
	(size) 13=0-3-8, 7=0-3-8 Max Horz 13=-191(LC 8) Max Uplift 7=-61(LC 9) Max Grav 13=1437(LC 19), 7=1473(LC 2)						
ORCES. (lb)	- Max. Comp./Max. Ten All forces 250 (lb) or	less except when shown.					
OP CHORD	1-2=-1585/311, 2-3=-1456/396, 3-5=-3007/6	2, 5-6=-2978/505, 6-7=-332	29/641,				
	1-13=-1310/292	~ ~					
BOT CHORD	12-13=-81/326, 9-12=-142/1635, 7-9=-528/3		20/007				
VEBS	2-12=-177/1399, 3-12=-1221/321, 3-9=-255/ 1-12=0/1009	533, 5-9=-467/240, 6-9=-42	20/207,				
IOTES-	oof live loads have been considered for this de	sian.					
	7-16: Vult=120mph (3-second gust) Vasd=95m		.0psf: h=15ft: Cat. II: Ex	c C: Enclos	sed:		

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-5-0, Exterior(2E) 9-5-0 to 12-1-13, Interior(1) 12-1-13 to 33-4-13 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.

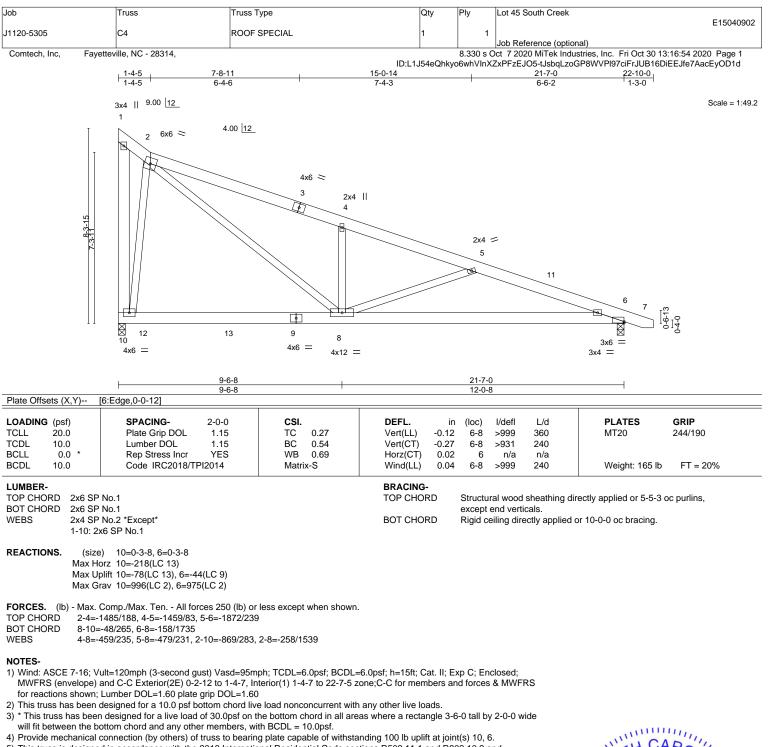
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.

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



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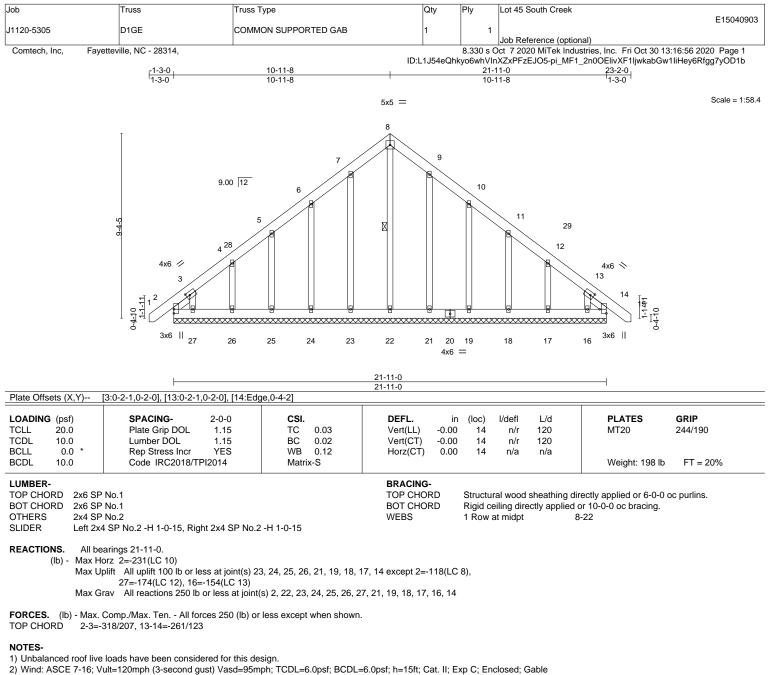


5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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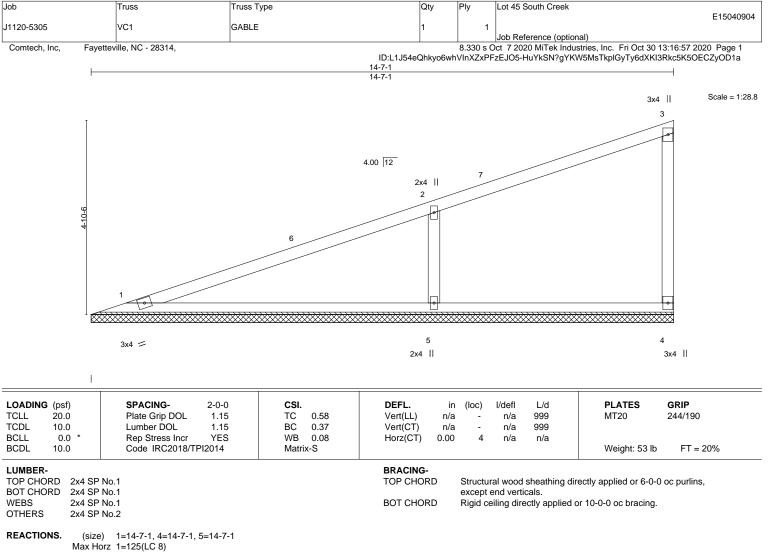
- 2) Wind: ASCE 7-16; Vult=120mpn (3-second gust) Vasd=95mpn; TCDL=6.0pst; BCDL=6.0pst; n=15f; Cat. II; Exp C; Enclosed; Gab Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-1-8 to 3-3-5, Exterior(2N) 3-3-5 to 10-11-8, Corner(3R) 10-11-8 to 15-4-5, Exterior(2N) 15-4-5 to 23-0-8 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 24, 25, 26, 21, 19, 18, 17, 14 except (jt=lb) 2=118, 27=174, 16=154.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

SEAL 036322 October 30,2020

> ENGINEERING BY **TREENCO** A MITEK Affiliate 818 Soundside Road

Edenton, NC 27932

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Max Uplift 4=-14(LC 8), 5=-58(LC 8)

Max Grav 1=249(LC 1), 4=157(LC 1), 5=678(LC 1)

NOTES-

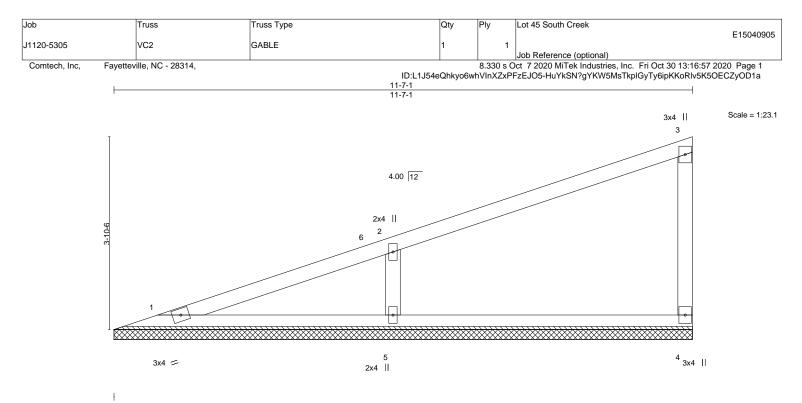
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-10-13 to 5-3-9, Interior(1) 5-3-9 to 14-5-5 zone; C-C for members and forces & MWFRS
- for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-496/277



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.30 BC 0.20 WB 0.06	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	a - n/a 999	PLATES GRIP MT20 244/190			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	1012(CT) 0.0	5 4 11/a 11/a	Weight: 41 lb FT = 20%			
LUMBER-			BRACING-					
TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1			TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.				
WEBS 2x4 SP No.2 OTHERS 2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied	l or 10-0-0 oc bracing.				

REACTIONS. (size) 1=11-7-1, 4=11-7-1, 5=11-7-1 Max Horz 1=98(LC 8)

Max Uplift 4=-17(LC 8), 5=-43(LC 8) Max Gray 1-139(1 - 1), 4-195(1 - 1), 5-510(1 - 1)

Max Grav 1=139(LC 1), 4=195(LC 1), 5=510(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-379/319

NOTES-

 Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-10-13 to 5-7-1, Interior(1) 5-7-1 to 11-5-5 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.

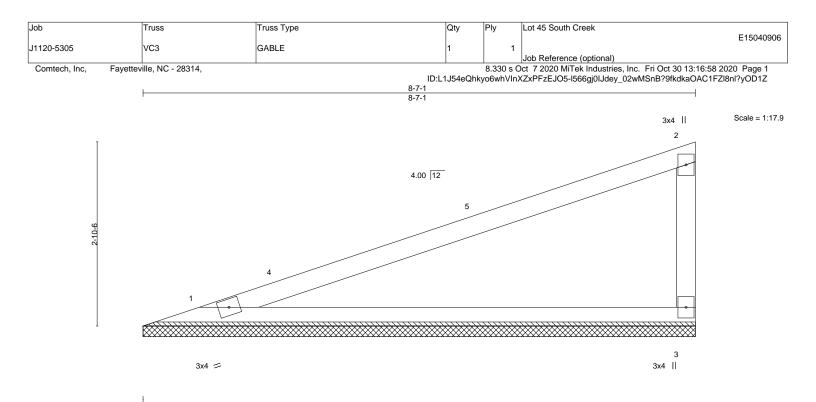
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SEAL 036322 October 30,2020



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 IRC2018/TPI2014	CSI. TC 0.88 BC 0.56 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT) C	in (loc) n/a - n/a - .00	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 28 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI	BRACING- TOP CHORD BOT CHORD	RD Structural wood sheathing directly applied or 2-2-0 oc purlir except end verticals.) oc purlins,		

REACTIONS. (size) 1=8-7-1, 3=8-7-1

Max Horz 1=70(LC 8) Max Uplift 1=-3(LC 8), 3=-26(LC 8)

Max Grav 1=302(LC 1), 3=302(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-226/252

NOTES-

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-10-13 to 5-3-9, Interior(1) 5-3-9 to 8-5-5 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.

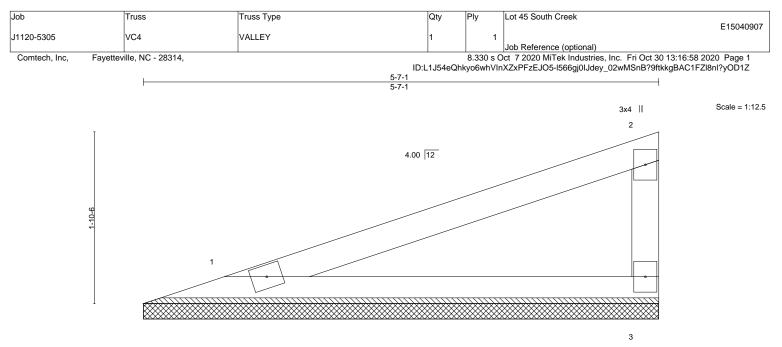
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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



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3x4 📁

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

except end verticals.

3x4 ||

5-7-1 5-7-1 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) l/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.15 тс 0.29 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.19 Vert(CT) n/a n/a 999 BCLL WB 0.00 0.0 **Rep Stress Incr** YES Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 18 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins,

BOT CHORD

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1WEBS2x4 SP No.1

REACTIONS. (size) 1=5-7-1, 3=5-7-1

Max Horz 1=42(LC 8) Max Uplift 1=-2(LC 8), 3=-16(LC 8)

Max Grav 1=182(LC 1), 3=182(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

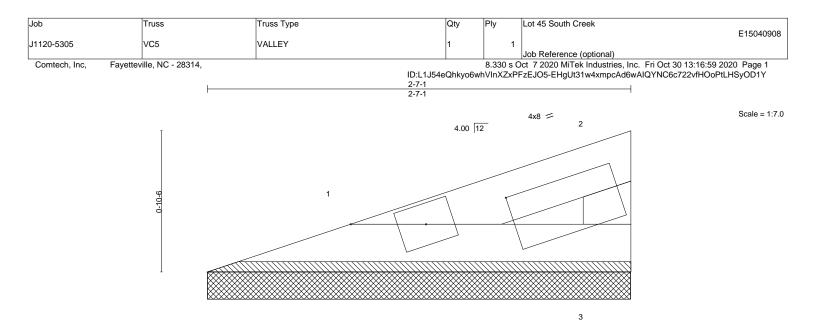
5) Non Standard bearing condition. Review required.

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



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3x4 ⋍

Plate Offsets (X,Y)	[2:0-1-14,0-0-0], [2:0-11-7,0-1-12], [3:0-	1-11 በ-በ-9]	<u>2-7-1</u> 2-7-1		———————————————————————————————————————		
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 IRC2018/TPI2014	CSI. TC 0.03 BC 0.02 WB 0.00 Matrix-P	DEFL. ii Vert(LL) n/; Vert(CT) n/; Horz(CT) 0.00	a - n/a 999	PLATES GRIP MT20 244/190 Weight: 7 lb FT = 20%		
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP REACTIONS. (size	No.1 No.1		BRACING- TOP CHORD BOT CHORD	BRACING- TOP CHORD Structural wood sheathing directly applied or 2-7-1 oc pur except end verticals.			

CTIONS. (size) 1=2-7-1, 3=2-7-1 Max Horz 1=14(LC 8) Max Uplift 1=-1(LC 8), 3=-5(LC 8) Max Grav 1=62(LC 1), 3=62(LC 1)

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

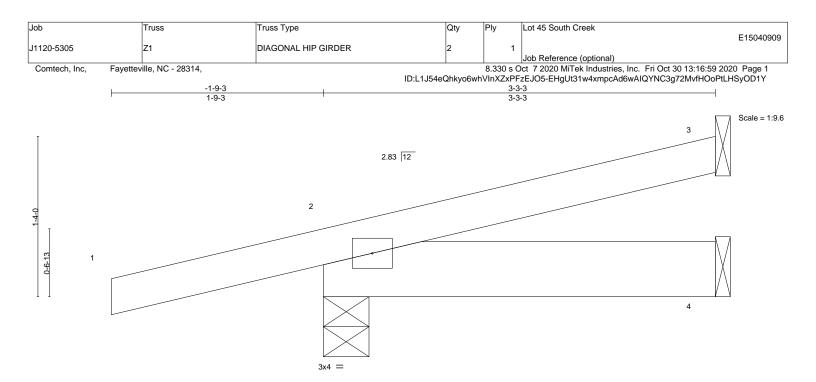
NOTES-

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWERS (anyelone) and C-C Exterior (2E) zone; C-C for members and forces & MWERS for reactions shown; Lumber DOL=1.60
- MWFRS (envelope) and C-C Exterior(2E) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) Non Standard bearing condition. Review required.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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				3-3-3 3-3-3								
	· · ·	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P	Wind(LL)	0.00	2-4	>999	240	Weight: 15 lb	FT = 20%

LUMBER-

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

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=36(LC 8)

Max Uplift 3=-21(LC 12), 2=-106(LC 8), 4=-11(LC 8)

Max Grav 3=52(LC 1), 2=276(LC 1), 4=60(LC 3)

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

NOTES-

 Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 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) 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) 3, 4 except (jt=lb) 2=106.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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BRACING-TOP CHORD BOT CHORD

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

