

Trenco 818 Soundside Rd Edenton, NC 27932

Re: CG1009-F McKee-PorticoBungalow;Lot 1009 CarriageGlen

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

Pages or sheets covered by this seal: I43400172 thru I43400180

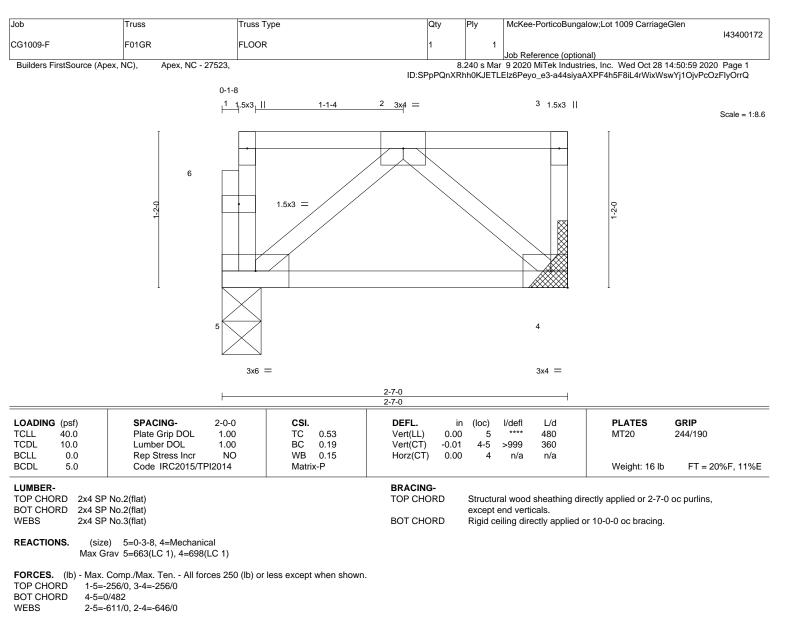
My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



October 29,2020

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



NOTES-

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

2) 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.

3) CAUTION. Do not erect truss backwards.

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

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 4-5=-10, 1-3=-573(F=-473)

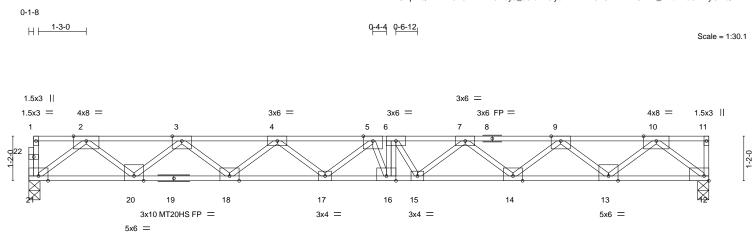


October 29,2020



Job		Truss	Truss Type	Qty	Ply	McKee-PorticoBungalow;Lot 1009 CarriageGlen		
						143400173		
CG	1009-F	F03	FLOOR	2	1			
						Job Reference (optional)		
Bu	uilders FirstSource (Apex, N	IC), Apex, NC - 27523,	8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Oct 28 14:50:59 2020 Page 1					

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Oct 28 14:50:59 2020 Page 1 ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-a44siyaAXPF4h5F8iL4rWixSrwN_1EbvPcOzFlyOrrQ



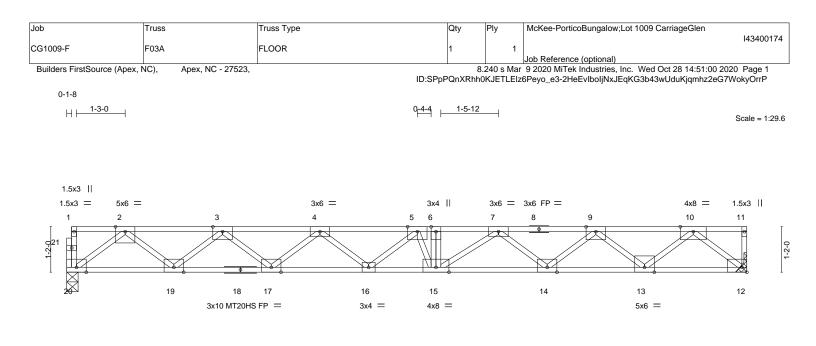
	9-5-12					17-9-8		
Plate Offsets (X,Y) [12:Edge,0-1-8]	9-5-12					8-3-12		
LOADING (psf)SPACINTCLL40.0Plate GriTCDL10.0Lumber IBCLL0.0Rep StreBCDL5.0Code IR	p DOL 1.00 DOL 1.00	CSI. TC 0.79 BC 0.88 WB 0.80 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc -0.40 16-1 -0.56 16-1 0.10 1	, 7 >522 7 >379	L/d 480 360 n/a	PLATES MT20 MT20HS Weight: 92 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.1(flat) *Exc. 1-8: 2x4 SP SS(flat) BOT CHORD 2x4 SP No.1(flat) *Exc. 12-19: 2x4 SP SS(flat) WEBS 2x4 SP No.3(flat) REACTIONS. (size) 21=0-3-8.1	ept*		BRACING- TOP CHORI BOT CHORI	exce	pt end vertion	cals.	ectly applied or 4-9-6 r 10-0-0 oc bracing.	oc purlins,
9-10=-2912/0 BOT CHORD 20-21=0/1635, 18-20 13-14=0/4169, 12-13 WEBS 2-21=-2049/0, 2-20=0	n All forces 250 (lb) or)47/0, 4-5=-6364/0, 5-6= =0/4059, 17-18=0/5807]=0/1622 0/1600, 3-20=-1555/0, 3 -2071/0, 10-13=0/1679,	less except when shown -6991/0, 6-7=-6662/0, 7-5 , 16-17=0/6887, 15-16=0/ -18=0/1156, 4-18=-1120/ 9-13=-1636/0, 9-14=0/12	9=-5113/0, ′6991, 14-15=0/602 0, 4-17=0/724,	9,				
 NOTES- All plates are MT20 plates unless ott All plates are 4x6 MT20 unless othe Recommend 2x6 strongbacks, on ex Strongbacks to be attached to walls CAUTION, Do not erect truss backw Hanger(s) or other connection devic chord. The design/selection of such In the LOAD CASE(S) section, loads LOAD CASE(S) Standard Dead + Floor Live (balanced): Lumb Uniform Loads (plf) Vert: 12-21=-10, 1-11=-100 Concentrated Loads (lb) Vert: 6=-700(F) 	rwise indicated. dge, spaced at 10-0-0 of at their outer ends or re vards. e(s) shall be provided si connection device(s) is s applied to the face of the per Increase=1.00, Plate	strained by other means. ufficient to support concer the responsibility of other he truss are noted as fron	ntrated load(s) 700			P	SEA 282	28



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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

GINEEDING



	9-5-12				17-5-8		
Plate Offsets (X,Y) [9-5-12 12:Edge,0-1-8]		I		7-11-12		
	12.Edge,0-1-0]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNO	CSI. TC 0.77 BC 0.84 WB 0.79	Vert(LL) -0.38	3 15-16 > 2 15-16 >	/defl L/d 547 480 398 360 n/a n/a	PLATES MT20 MT20HS	GRIP 244/190 187/143
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		9 12	n/a n/a	Weight: 90 lb	FT = 20%F, 11%E
1-8: 2x4 BOT CHORD 2x4 SP 1 12-18: 2	x4 SP SS(flat)		BRACING- TOP CHORD BOT CHORD	except end	d verticals.	rectly applied or 4-10- or 10-0-0 oc bracing.	3 oc purlins,
REACTIONS. (size)	No.3(flat)) 20=0-3-8, 12=Mechanical av 20=1265(LC 1), 12=1329(LC 1)						
9-10=- BOT CHORD 19-20= 12-13 WEBS 6-15=- 4-16=(2800/0, 3-4=-4822/0, 4-5=-6177/0, 5-6= -2884/0 =0/1602, 17-19=0/3965, 16-17=0/5651 =0/1608 -666/0, 2-20=-2007/0, 2-19=0/1560, 3- 0/685, 5-16=-650/0, 10-12=-2053/0, 10 -1168/0, 7-15=0/937	, 15-16=0/6677, 14-15=0/ 19=-1516/0, 3-17=0/1116	/5958, 13-14=0/4129, , 4-17=-1079/0,				
 All plates are 4x6 MT Refer to girder(s) for t Recommend 2x6 stro Strongbacks to be att CAUTION, Do not ere Hanger(s) or other co chord. The design/se 	lates unless otherwise indicated. 20 unless otherwise indicated. truss to truss connections. ongbacks, on edge, spaced at 10-0-0 c ached to walls at their outer ends or re act truss backwards. nnection device(s) shall be provided s election of such connection device(s) is b) section, loads applied to the face of t	strained by other means. ufficient to support concer the responsibility of othe	ntrated load(s) 700 lb do		2 on top	SE/ 282	ARO



Job	Truss		Truss Type		Qty	Ply	McKee-PorticoBungalow;Lot 1009 Carria	igeGlen	
CG1009-F	F04G		GABLE		1	1			l43400175
CG1009-F	F04G		GADLE			1	Job Reference (optional)		
Builders FirstSource (Ap	pex, NC),	Apex, NC - 27523,	1				r 9 2020 MiTek Industries, Inc. Wed Oct 2		
				ID:SF	pPQnXRhl	h0KJETLEI	z6Peyo_e3-2HeEvlboljNxJEqKG3b43wUo	fKwemtr2eG	'WokyOrrP
									Scale = 1:15.5
									Scale = 1:15.5
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1 XXX	******				*****				1
16		15	14	13		12	11	10 9	

	<u> </u>	1-4-0	2-8-0	4-0-0	5-4-0		6-8	-	8-0-0	8-4-8
		1-4-0	1-4-0	1-4-0	1-4-0		1-4	-0	1-4-0	0-4-8
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a -	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT) 0	.00 9	n/a	n/a		
BCDL	5.0	Code IRC2015	/TPI2014	Matrix-R					Weight: 36 lb	FT = 20%F, 11%E
	JMBER- DP CHORD 2x4 SP No.2(flat)					Structu	ural wood	sheathing di	rectly applied or 6-0-0) oc purlins.

TOP CHORD

BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS OTHERS 2x4 SP No.3(flat)

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 8-4-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 15, 14, 13, 12, 11, 10

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) Gable requires continuous bottom chord bearing.

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

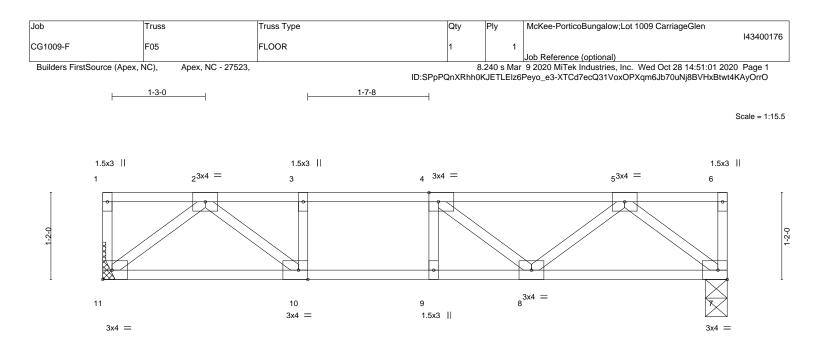
4) Gable studs spaced at 1-4-0 oc.

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.









	H					8-4-8						
Plate Offse	ts (X,Y)	[4:0-1-8,Edge], [10:0-1-8	,Edge]			8-4-8						
	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.06	8-9	>999	480	MT20	244/190
FCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.07	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IRC2015/T	PI2014	Matrix	S						Weight: 42 lb	FT = 20%F, 11%
BOT CHOF WEBS REACTION	2x4 SI	, ,				BOT CHOP			end vert eiling dir		or 10-0-0 oc bracing.	
	Max (Grav 7=454(LC 1), 11=454	4(LC 1)									
ORCES.	· · /	. Comp./Max. Ten All for	()	or less except v	vhen shown.							
TOP CHOR		-863/0, 3-4=-863/0, 4-5=-										
BOT CHOF		1=0/495, 9-10=0/863, 8-9	,									
WEBS	5-7=	-677/0, 2-11=-632/0, 5-8=	:0/264, 2-10=0	/490								

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NOTES-

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

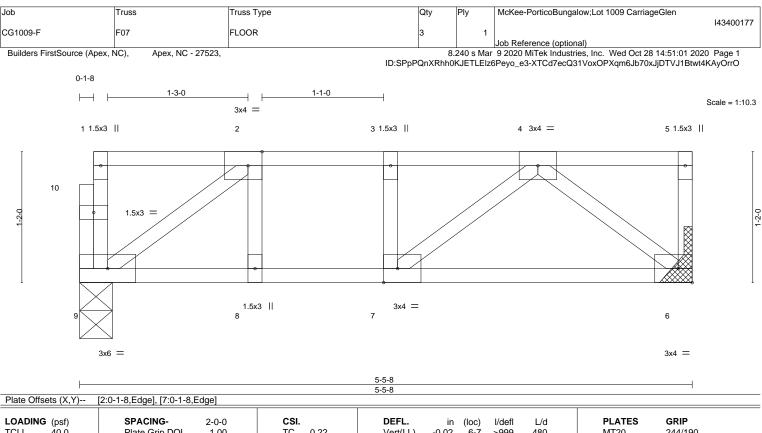
2) Refer to girder(s) for truss to truss connections.

3) 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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LOADING(psf)TCLL40.0TCDL10.0BCLL0.0BCDL5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.22 BC 0.24 WB 0.10 Matrix-S	DEFL. in Vert(LL) -0.02 Vert(CT) -0.03 Horz(CT) 0.00	8 6-7 >999 360	PLATES MT20 Weight: 30 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SP	No.2(flat) No.2(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c	, ,,,	oc purlins,

REACTIONS. (size) 9=0-3-8, 6=Mechanical Max Grav 9=284(LC 1), 6=290(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-344/0, 3-4=-344/0

BOT CHORD 8-9=0/344, 7-8=0/344, 6-7=0/284 4-6=-362/0, 2-9=-422/0

WEBS

NOTES-

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

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

3) 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.

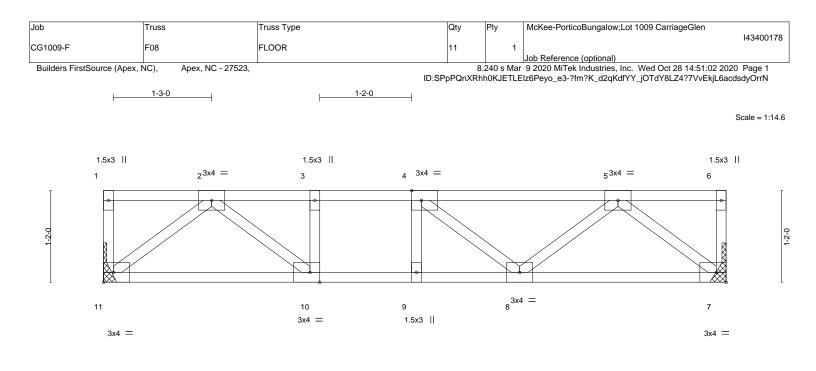
4) CAUTION, Do not erect truss backwards.



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H			7-11-0						
Plate Offsets (X,Y)	[4:0-1-8,Edge], [10:0-1-8,Edge]								
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.35 BC 0.48 WB 0.20 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.05 0.01	8-9	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 41 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SP	No.2(flat) No.2(flat) No.3(flat)	11	BRACING- TOP CHOF BOT CHOF	RD	except	end vert	icals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.) oc purlins,
REACTIONS. (size Max G	e) 7=Mechanical, 11=Mechanical rav 7=429(LC 1), 11=429(LC 1)								
TOP CHORD 2-3=- BOT CHORD 10-11	Comp./Max. Ten All forces 250 (lb) or 779/0, 3-4=-779/0, 4-5=-671/0 =0/464, 9-10=0/779, 8-9=0/779, 7-8=0/- 635/0, 2-11=-592/0, 2-10=0/418								

NOTES-

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

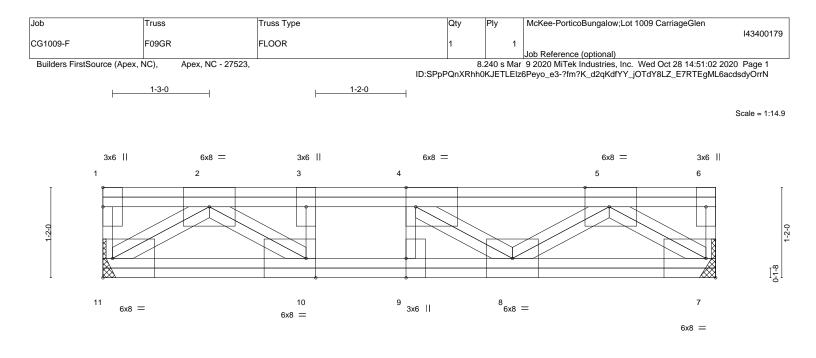
2) Refer to girder(s) for truss to truss connections.

3) 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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LOADING (psf) FCLL 40.0 FCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO	CSI. TC 0.72 BC 0.76 WB 0.48	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.08 0.02	(loc) 8-9 8-9 7	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
3CDL 5.0	Code IRC2015/TPI2014	Matrix-S		0.02	1	n/a	II/a	Weight: 72 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	BRACING- TOP CHOR	-	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.						
	P No.3(flat)		BOT CHOR					or 10-0-0 oc bracing.	
REACTIONS. (size	e) 11=Mechanical, 7=Mechanical								
CEACHONS. (SIZ)	Grav 11=1989(LC 1), 7=1989(LC 1)								

7-11-0

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

TOP CHORD 1-11=-295/0, 2-3=-4050/0, 3-4=-4050/0, 4-5=-3454/0

BOT CHORD 10-11=0/2459, 9-10=0/4050, 8-9=0/4050, 7-8=0/2627

WEBS 5-7=-3204/0, 2-11=-2999/0, 5-8=0/1026, 2-10=0/2009, 4-8=-947/0, 3-10=-805/0, 4-9=-563/14

NOTES-

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

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

3) 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.

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

LOAD CASE(S) Standard

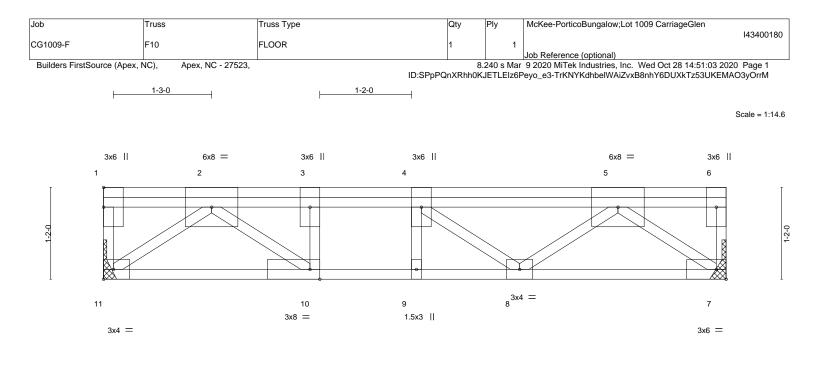
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 7-11=-10, 1-6=-501(F=-400)







			7-11-0 7-11-0			
Plate Offsets (X,Y)	[10:0-1-8,Edge]	1	1		1	
LOADING(psf)TCLL40.0TCDL10.0BCLL0.0BCDL5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2015/TPI2014	CSI. TC 0.49 BC 0.91 WB 0.58 Matrix-S	DEFL. ii Vert(LL) -0.05 Vert(CT) -0.07 Horz(CT) 0.02	8-9 >999 360	PLATES MT20 Weight: 51 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SP	No.2(flat) No.2(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	,) oc purlins,
REACTIONS. (size Max G	e) 7=Mechanical, 11=Mechanical rav 7=1140(LC 1), 11=1140(LC 1)					

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

TOP CHORD 2-3=-2200/0, 3-4=-2200/0, 4-5=-1836/0

BOT CHORD 10-11=0/1271, 9-10=0/2200, 8-9=0/2200, 7-8=0/1413

WEBS 5-7=-1763/0, 2-11=-1585/0, 5-8=0/543, 2-10=0/1214, 4-8=-515/0, 3-10=-624/0

NOTES-

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

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

3) 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.

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

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 7-11=-10, 1-6=-282(F=-182)



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