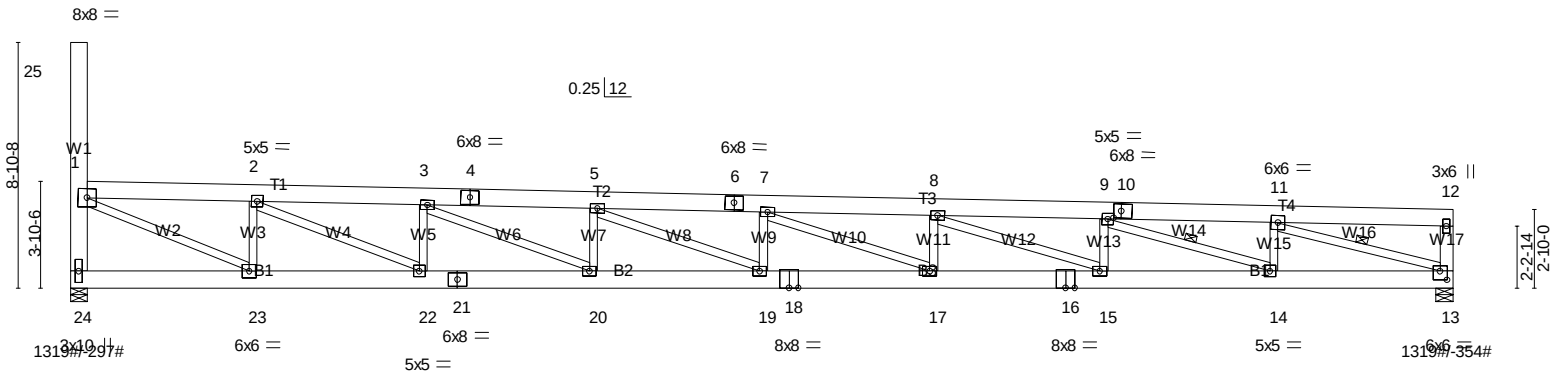
Job	Truss	Truss Type	Qty	Ply	Champs Convenience Store
J1223-7209	A1	HALF HIP	33	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Jonathan Landry — Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue May 7 14:14:05 2024 Page 1

ID:?o4NikmiRX88XwvYxsG2XozzTdv-TP8tDhfFJentZrQA7f9fdY4Li1jyd2_5AB4GkIzltmG

6-7-6	12-9-3	18-11-1	25-0-14	31-2-12	37-4-9	43-6-7	50-0-0
6-7-6	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-5-10

Scale = 1:83.3



6-7-6	12-9-3	18-11-1	25-0-14	31-2-12	37-4-9	43-6-7	50-0-0
6-7-6	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-5-10

Plate Offsets (X,Y)-- [10:0-3-4,0-3-0], [13:0-3-0,0-3-12]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.40	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.81	17-19	>737	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.47	19	>999	240	Weight: 432 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP 2400F 2.0E
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
W1: 2x8 SP No.1, W17: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-7 oc bracing.
WEBS 1 Row at midpt 11-13, 9-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 24=0-7-4 (min. 0-1-8), 13=0-7-4 (min. 0-1-8)
Max Horz 24=-380(LC 8)
Max Uplift 24=-297(LC 13), 13=-354(LC 9)
Max Grav 24=1319(LC 1), 13=1319(LC 1)

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

TOP CHORD 1-24=-1246/593, 1-26=-2311/1378, 2-26=-2315/1378, 2-3=-4081/1975, 3-4=-5283/2370, 4-5=-5286/2369, 5-6=-5878/2529, 6-7=-5880/2528, 7-8=-5770/2420, 8-9=-4858/2006, 9-10=-2975/1225, 10-11=-2979/1224
BOT CHORD 23-24=-560/646, 22-23=-1380/2313, 21-22=-1982/4078, 20-21=-1982/4078, 19-20=-2381/5283, 18-19=-2545/5877, 17-18=-2545/5877, 16-17=-2441/5767, 15-16=-2441/5767, 14-15=-2031/4855, 13-14=-1255/2977
WEBS 1-23=-959/2478, 2-23=-1083/509, 2-22=-824/1981, 5-20=-509/303, 5-19=-332/656, 8-15=-991/446, 11-14=-232/789, 11-13=-3000/1242, 3-22=-813/426, 3-20=-578/1340, 9-15=-132/477, 9-14=-2026/838

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-10 to 5-3-10, Interior(1) 5-3-10 to 49-9-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x6 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 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) except (jt=lb) 24=297, 13=354.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

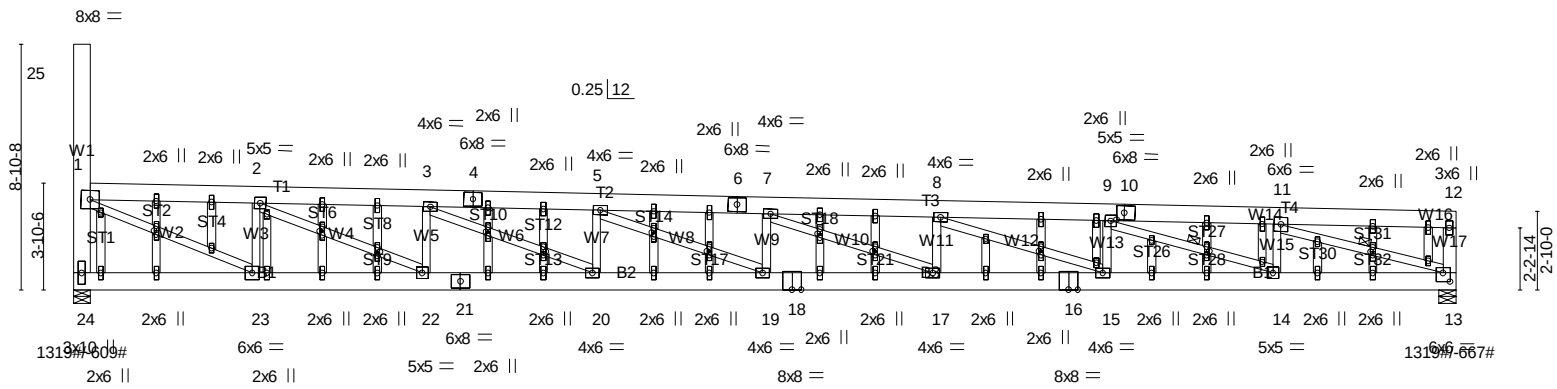
Job	Truss	Truss Type	Qty	Ply	Champs Convenience Store
J1223-7209	A1SG	GABLE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Jonathan Landry — Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue May 7 14:14:06 2024 Page 1

ID:?o4NikmiRX88XwvYxsG2XozzTdv-xbhFQ1ft4xvkB??NhMguAmcWRR2BMRqFPrppGkzItmF

6-7-6	12-9-3	18-11-1	25-0-14	31-2-12	37-4-9	43-6-7	50-0-0
6-7-6	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-5-10

Scale = 1:83.3



6-7-6	12-9-3	18-11-1	25-0-14	31-2-12	37-4-9	43-6-7	50-0-0
6-7-6	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-5-10

Plate Offsets (X,Y)-- [10:0-3-4,0-3-0], [13:0-3-0,0-3-12], [26:0-1-11,0-1-0], [29:0-1-11,0-1-0], [32:0-1-12,0-1-0], [35:0-1-12,0-1-0], [38:0-1-12,0-1-0], [41:0-1-12,0-1-0], [48:0-1-13,0-1-0], [55:0-1-11,0-1-0], [58:0-1-11,0-1-0], [63:0-1-11,0-1-0], [70:0-1-10,0-1-0], [77:0-1-10,0-1-0]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.40	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.81	17-19	>737	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.11	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.67	17-19	>891	240	Weight: 488 lb	FT = 20%

LUMBER-

TOP CHORD	2x8 SP 2400F 2.0E
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* W1: 2x8 SP No.1, W17: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-7-13 oc bracing.
WEBS	1 Row at midpt 11-13, 9-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 24=0-7-4 (min. 0-1-8), 13=0-7-4 (min. 0-1-8)
Max Horz 24=-408(LC 8)
Max Uplift24=-609(LC 13), 13=-667(LC 9)
Max Grav 24=1319(LC 1), 13=1319(LC 1)

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

TOP CHORD	1-24=-1246/722, 1-2=-2315/1664, 2-3=-4081/2476, 3-4=-5283/3018, 4-5=-5286/3017, 5-6=-5878/3247, 6-7=-5880/3246, 7-8=-5770/3120, 8-9=-4858/2587, 9-10=-2975/1563, 10-11=-2979/1562
BOT CHORD	23-24=-568/643, 22-23=-1660/2313, 21-22=-2479/4078, 20-21=-2479/4078, 19-20=-3025/5283, 18-19=-3260/5877, 17-18=-3260/5877, 16-17=-3138/5767, 15-16=-3138/5767, 14-15=-2611/4855, 13-14=-1592/2977
WEBS	1-23=-1245/2478, 2-23=-1083/654, 2-22=-1078/1981, 5-20=-509/378, 5-19=-417/656, 8-15=-991/573, 11-14=-324/789, 11-13=-3000/1586, 3-22=-813/541, 3-20=-748/1340, 9-15=-182/477, 9-14=-2026/1098

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
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) except (jt=lb) 24=609, 13=667.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

LOAD CASE(S) Standard

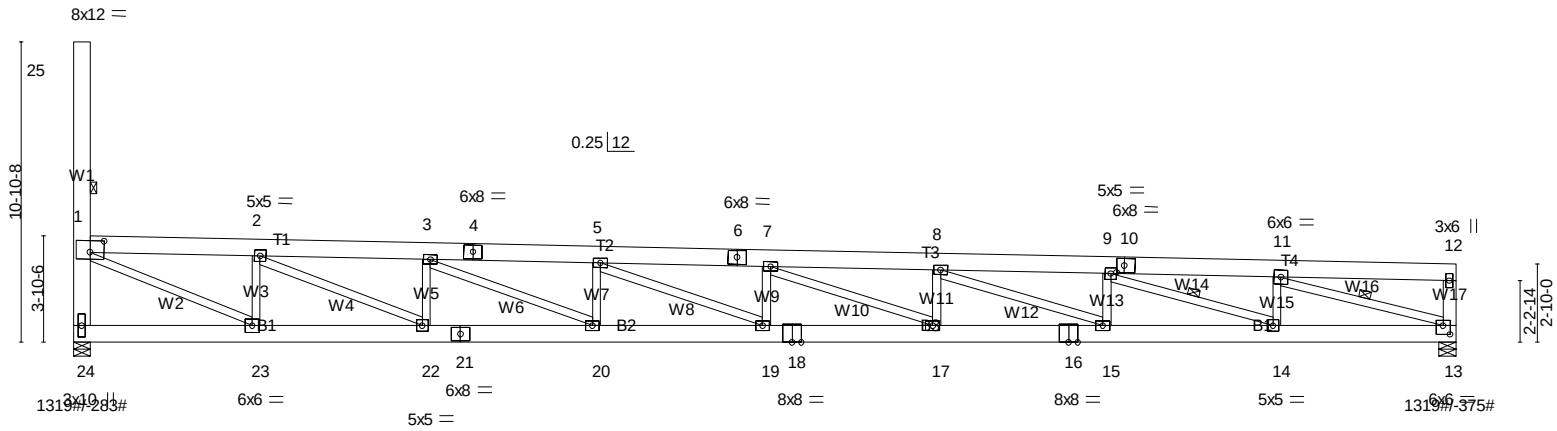
Job	Truss	Truss Type	Qty	Ply	Champs Convenience Store
J1223-7209	A2	HALF HIP	37	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Jonathan Landry — Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue May 7 14:14:07 2024 Page 1

ID:?o4NikmiRX88XwvYxsG2XozzTdv-PnFdeNgWrF1bo9aZE4B7iz9dYrOQ5xiOeVZMoBzltmE

6-7-6	12-9-3	18-11-1	25-0-14	31-2-12	37-4-9	43-6-7	50-0-0
6-7-6	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-5-10

Scale = 1:83.3



6-7-6	12-9-3	18-11-1	25-0-14	31-2-12	37-4-9	43-6-7	50-0-0
6-7-6	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-5-10

Plate Offsets (X,Y)-- [1:0-6-0,0-5-0], [10:0-3-4,0-3-0], [13:0-3-0,0-3-12]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.40	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.81	17-19	>737	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.11	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.50	19	>999	240	Weight: 438 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP 2400F 2.0E
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
W1: 2x8 SP No.1, W17: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals. Except:
5-11-0 oc bracing: 1-25
6-0-0 oc bracing: 1-24
BOT CHORD Rigid ceiling directly applied or 7-3-4 oc bracing.
WEBS 1 Row at midpt 1-25, 11-13, 9-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 24=0-7-4 (min. 0-1-8), 13=0-7-4 (min. 0-1-8)
Max Horz 24=-490(LC 8)
Max Uplift24=-283(LC 13), 13=-375(LC 9)
Max Grav 24=1319(LC 1), 13=1319(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-1246/634, 1-26=-2411/1671, 2-26=-2414/1671, 2-3=-4081/2227, 3-4=-5283/2591, 4-5=-5286/2591, 5-6=-5878/2714, 6-7=-5880/2713, 7-8=-5770/2566, 8-9=-4858/2108, 9-10=-2975/1278, 10-11=-2979/1278
BOT CHORD 23-24=-839/980, 22-23=-1673/2426, 21-22=-2234/4078, 20-21=-2234/4078, 19-20=-2603/5283, 18-19=-2730/5877, 17-18=-2730/5877, 16-17=-2587/5767, 15-16=-2587/5767, 14-15=-2133/4855, 13-14=-1308/2977
WEBS 1-23=-940/2478, 2-23=-1083/534, 2-22=-878/1981, 5-20=-509/319, 5-19=-380/656, 8-15=-991/493, 11-14=-251/789, 11-13=-3000/1297, 3-22=-813/456, 3-20=-620/1340, 9-15=-150/477, 9-14=-2026/890

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-10 to 5-3-10, Interior(1) 5-3-10 to 49-9-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x6 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 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) except (jt=lb) 24=283, 13=375.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

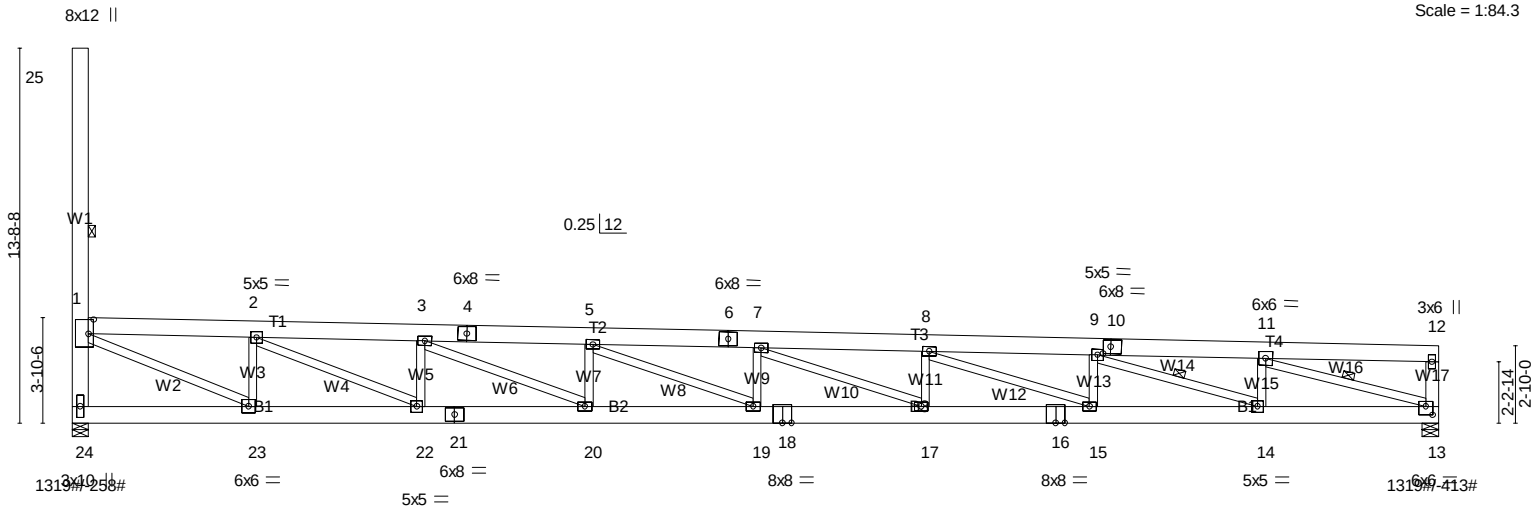
Job	Truss	Truss Type	Qty	Ply	Champs Convenience Store
J1223-7209	A3	HALF HIP	28	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Jonathan Landry — Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue May 7 14:14:08 2024 Page 1

ID:?o4NikmiRX88XwvYxsG2XozzTdv-t_p?rjh8cZ9RQJ9IoniMFBildFkfqOmYt9lwKdzltmD

6-7-6	12-9-3	18-11-1	25-0-14	31-2-12	37-4-9	43-6-7	50-0-0
6-7-6	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-5-10

Scale = 1:84.3



6-7-6	12-9-3	18-11-1	25-0-14	31-2-12	37-4-9	43-6-7	50-0-0
6-7-6	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-1-14	6-5-10

Plate Offsets (X,Y)-- [1:0-6-4,0-2-4], [10:0-3-4,0-3-0], [13:0-3-0,0-3-12]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.40	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.81	17-19	>737	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.11	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.54	19	>999	240	Weight: 447 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP 2400F 2.0E
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
W1: 2x8 SP 2400F 2.0E, W17: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals. Except:
4-8-0 oc bracing: 1-25
6-0-0 oc bracing: 1-24
BOT CHORD Rigid ceiling directly applied or 6-10-7 oc bracing.
WEBS 1 Row at midpt 1-25, 11-13, 9-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 24=0-7-4 (min. 0-1-8), 13=0-7-4 (min. 0-1-8)
Max Horz 24=-648(LC 8)
Max Uplift24=-258(LC 13), 13=-413(LC 9)
Max Grav 24=1319(LC 1), 13=1319(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-1244/705, 1-26=-2803/2196, 2-26=-2807/2195, 2-3=-4082/2684, 3-4=-5283/2991, 4-5=-5286/2991, 5-6=-5878/3048, 6-7=-5880/3047, 7-8=-5770/2829, 8-9=-4858/2292, 9-10=-2975/1374, 10-11=-2979/1374
BOT CHORD 23-24=-1363/1606, 22-23=-2196/2818, 21-22=-2691/4079, 20-21=-2691/4079, 19-20=-3003/5283, 18-19=-3064/5877, 17-18=-3064/5877, 16-17=-2849/5767, 15-16=-2849/5767, 14-15=-2317/4855, 13-14=-1405/2977
WEBS 1-23=-937/2472, 2-23=-1081/562, 2-22=-968/1982, 5-20=-509/350, 5-19=-467/656, 8-15=-991/578, 11-14=-285/789, 11-13=-3000/1395, 3-22=-813/508, 3-20=-696/1340, 9-15=-184/477, 9-14=-2026/985

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-10 to 5-3-10, Interior(1) 5-3-10 to 49-9-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x6 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 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) except (jt=lb) 24=258, 13=413.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard