

MiTek USA, Inc. MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661 Telephone 916-755-3571

Re: B2000604 Benzon 11686 (18130 Table Rock Rd.) (Co. Springs, Co.)

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Sterling Lumber & Investment.

Pages or sheets covered by this seal: R62728772 thru R62728773

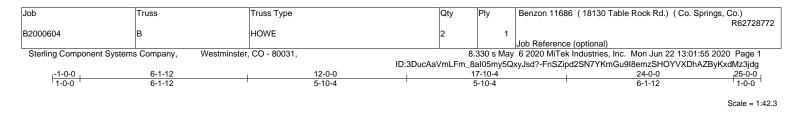
My license renewal date for the state of Colorado is October 31, 2021.

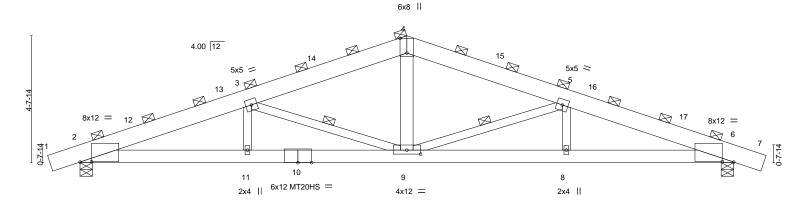


June 22,2020

Hernandez, Marcos

**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.





	<u>6-1-12</u> 6-1-12	<u>12-0-0</u> 5-10-4		<u>17-10-4</u> 5-10-4		<u>24-0-0</u> 6-1-12	I
Plate Offsets (X,Y) [2:0	0-5-1,0-0-4], [4:0-6-8,0-3-0], [6:0-5-1,0	-0-4], [9:0-6-0,0-1-12]					
COADING (psf)   "CLL 40.0   Roof Snow=40.0) "CDL   "CDL 5.0   3CLL 0.0 *   3CDL 5.0	SPACING-5-6-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIBC2015/TPI2014	<b>CSI.</b> TC 0.46 BC 0.60 WB 0.35 Matrix-R		in (loc) l/defl -0.26 9-11 >999 -0.33 9-11 >846 0.12 6 n/a	L/d 240 180 n/a	<b>PLATES</b> MT20 MT20HS Weight: 144 lb	<b>GRIP</b> 197/144 148/108 FT = 15%
LUMBER-   TOP CHORD 2x8 DF 1950F 1.7E   BOT CHORD 2x6 SPF 2100F 1.8E   WEBS 2x4 SPF 1650F 1.5E *Except*   4-9: 2x6 SPF 1650F 1.5E			BRACING- TOP CHORD BOT CHORD WEBS	2-0-0 oc purlins (3-8-9 max.) (Switched from sheeted: Spacing > 2-8-0). Rigid ceiling directly applied or 6-10-3 oc bracing. 1 Row at midpt 5-9, 3-9			
Max Horz Max Uplift	2=0-5-8, 6=0-5-8 2=160(LC 12) 2=-879(LC 8), 6=-879(LC 9) 2=3565(LC 1), 6=3565(LC 1)						
TOP CHORD 2-3=-721   3OT CHORD 2-11=-20	mp./Max. Ten All forces 250 (lb) or 2/2436, 3-4=-5320/2026, 4-5=-5320/ 53/6531, 9-11=-2053/6531, 8-9=-205 //1515, 5-9=-2439/627, 5-8=0/457, 3-	2026, 5-6=-7212/2436 3/6531, 6-8=-2053/6531					

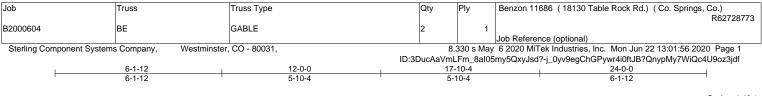
NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=3.0psf; BCDL=3.0psf; h=25ft; Cat. I; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 2-1-4, Interior(1) 2-1-4 to 8-9-10, Exterior(2) 8-9-10 to 15-2-6, Interior(1) 15-2-6 to 21-10-12, Exterior(2) 21-10-12 to 25-1-2 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category I; Exp C; Partially Exp.; Ct=1.20
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=879, 6=879.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

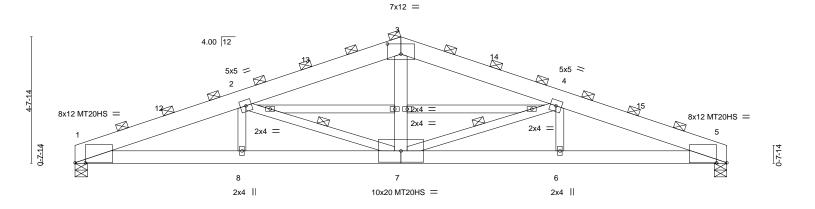




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **ANSUTPI Quality criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Scale = 1:42.4



<b> </b>	6-1-12 6-1-12	<u>12-0-0</u> 5-10-4	<u> </u>		24-0-0 6-1-12	
Plate Offsets (X,Y) [1:0	0-1-12 0-4-9,0-0-1], [3:0-6-0,0-4-8], [5:0-4-9,0-		5-10-4		0-1-12	
LOADING (psf)   TCLL 40.0   (Roof Snow=40.0) TCDL   TCDL 5.0   BCLL 0.0 *   BCDL 5.0	SPACING- 6-6-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2015/TPI2014	CSI. TC 0.61 BC 0.76 WB 0.41 Matrix-R	Vert(LL) -0.32	oc) I/defl L/d 7-8 >894 240 7-8 >706 180 5 n/a n/a	PLATES MT20 MT20HS Weight: 150 lb	<b>GRIP</b> 197/144 148/108 FT = 15%
3-7: 2x6 SF OTHERS 2x4 SPF 10	100F 1.8E 650F 1.5E *Except* PF 1650F 1.5E		(Swi BOT CHORD Rigi	0 oc purlins (3-1-12 max itched from sheeted: Spa id ceiling directly applied ow at midpt	, ncing > 2-8-0).	
Max Horz Max Uplift Max Grav FORCES. (Ib) - Max. Con	1=0-5-8, 5=0-5-8 1=-178(LC 13) 1=-830(LC 8), 5=-830(LC 9) 1=3826(LC 1), 5=3826(LC 1) mp./Max. Ten All forces 250 (lb) or la 1/3117, 2-3=-6351/2510, 3-4=-6351/2					
BOT CHORD 1-8=-272	/1843, 4-7=-2835/890, 4-6=0/542, 2-7	859, 5-6=-2722/7859				
MWFRS (envelope) and 20-6-14, Exterior(2) 20-6 shown; Lumber DOL=1. 2) Truss designed for wind Gable End Details as ap 3) TCLL: ASCE 7-10; Pf=4 4) Unbalanced snow loads 5) Dead loads shown inclu verify adequacy of top cl 0) All plates are MT20 plate 7) Horizontal gable studs s	l loads in the plane of the truss only. F pplicable, or consult qualified building 0.0 psf (flat roof snow); Category I; Ex have been considered for this design de weight of truss. Top chord dead lo hord dead load. es unless otherwise indicated.	or(1) 3-5-2 to 8-9-10, Exte d right exposed ;C-C for me For studs exposed to wind i designer as per ANSI/TPI 1 exp C; Partially Exp.; Ct=1.2 ad of 5.0 psf (or less) is no	rior(2) 8-9-10 to 15-2-6, Inte embers and forces & MWFF (normal to the face), see St ) ) t adequate for a shingle roo	erior(1) 15-2-6 to RS for reactions tandard Industry	COLORAD COLORAD	DO LICENSE HERNSE

9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=830, 5=830.

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



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