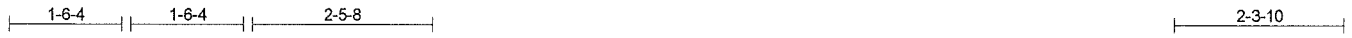


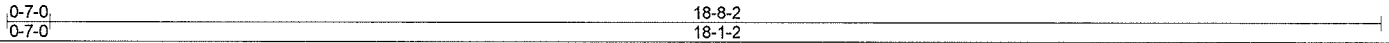
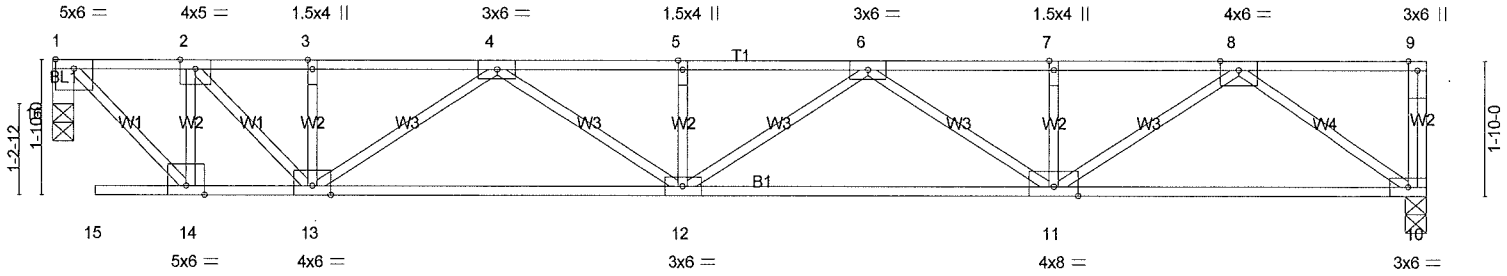
Job 6969F	Truss F23	Truss Type FLOOR	Qty 6	Ply 1	Job Reference (optional)
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TRUSS SYSTEMS INC., BISMARCK, ND 58504

7,600 s Oct 3 2014 MiTek Industries, Inc. Mon Mar 23 09:20:20 2015 Page 1  
ID:HKVFvrRrDqDBHO4Wzw7Npsz9IK9-Txn4a8wd0dBVpXBpnPFCvL4xDhx?QIZrFkXBazzY5VP



Scale = 1:31.2



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 50.0	1-7-3	TC 0.24	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.49	Vert(LL) -0.15 11-12 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.62	Vert(TL) -0.23 12-13 >965 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.03 10 n/a n/a		
	Code IBC2009/TPI2007			Weight: 79 lb	FT = 12%F, 11%E

**LUMBER-**  
TOP CHORD 2x4 SPF 1650F 1.5E(flat)  
BOT CHORD 2x4 SPF 1650F 1.5E(flat)  
WEBS 2x4 SPF Stud(flat)  
OTHERS 4x4 DF No.2

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

**REACTIONS.** (lb/size) 10=956/0-3-8 (min. 0-1-8), 16=953/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-893/0, 2-3=-1569/0, 3-4=-1569/0, 4-5=-2591/0, 5-6=-2591/0, 6-7=-2061/0, 7-8=-2061/0, 1-16=-953/0  
BOT CHORD 13-14=0/893, 12-13=0/2264, 11-12=0/2506, 10-11=0/1205  
WEBS 1-14=0/1256, 2-14=-867/0, 2-13=0/973, 4-13=-840/0, 4-12=0/394, 6-11=-539/0, 8-11=0/1034, 8-10=-1473/0

- NOTES-**
- Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 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.
  - CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

Job 6969F	Truss F04	Truss Type FLOOR	Qty 8	Ply 1	Job Reference (optional)
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TRUSS SYSTEMS INC., BISMARCK, ND 58504

7,600 s Oct 3 2014 MiTek Industries, Inc. Mon Mar 23 09:20:28 2015 Page 1  
ID:HKVfVrRrDqDBHO4Wzw7Npsz9IK9-ETG6Ft1e74CNmloMF5o4D1PH\_vgGlx105zTcsVzY5VH

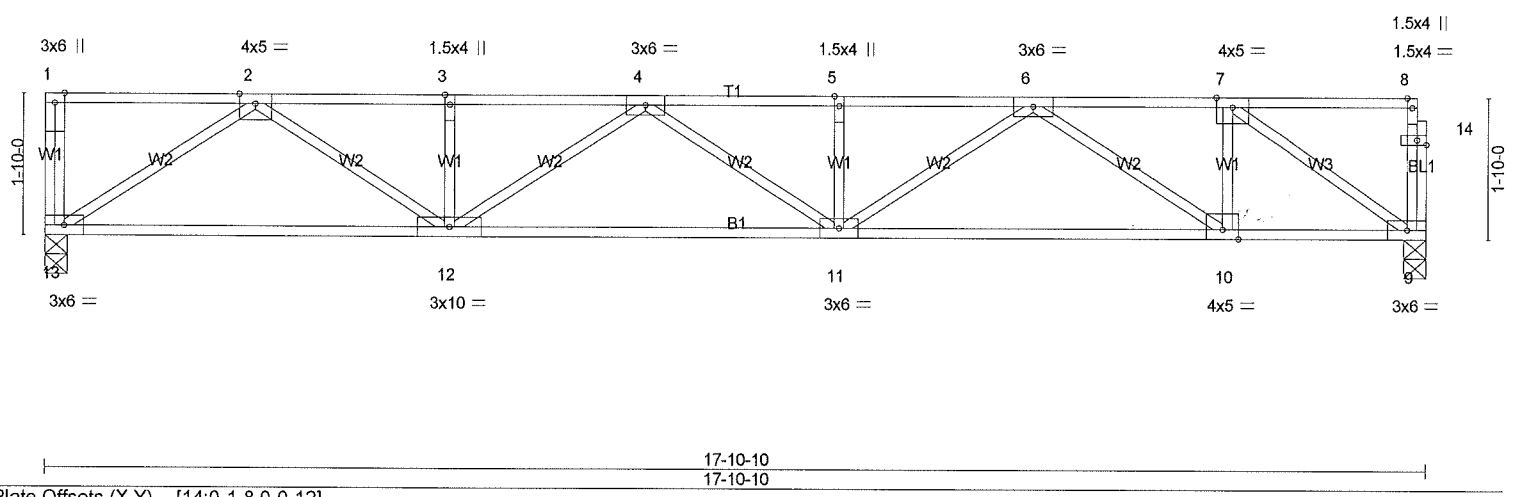


Plate Offsets (X,Y)-- [14:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 50.0	1-7-3	TC 0.26	Vert(LL)	-0.13 11-12	>999	480	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.47	Vert(TL)	-0.20 11-12	>999	240		
BCLL 0.0	Lumber DOL 1.00	WB 0.46	Horz(TL)	0.05 9	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)						
	Code IBC2009/TPI2007							
							Weight: 76 lb	FT = 12%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF 1650F 1.5E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud(flat)	

REACTIONS. (lb/size) 13=916/0-3-8 (min. 0-1-8), 9=910/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1981/0, 3-4=-1981/0, 4-5=-2346/0, 5-6=-2346/0, 6-7=-1171/0  
 BOT CHORD 12-13=0/1210, 11-12=0/2344, 10-11=0/1932, 9-10=0/1171  
 WEBS 2-13=-1451/0, 2-12=0/931, 4-12=-439/0, 6-11=0/499, 6-10=-920/0, 7-10=0/550, 7-9=-1423/0

- NOTES-
- 1) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - 2) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 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.

LOAD CASE(S) Standard