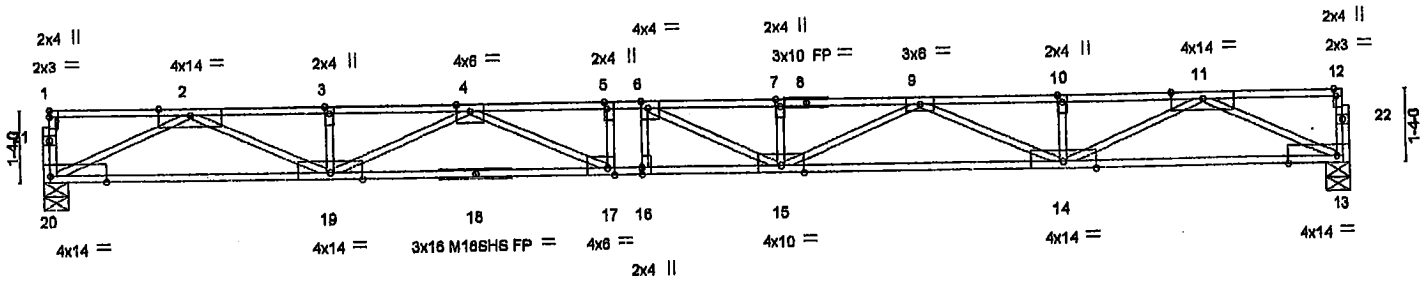
Job	Truss	Truss Type	Qty	Ply	STANDARDS IRC 2009
STANDARDS_IRC_2009	F24	STANDARD	1	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME

7.820 s Mar 27 2015 MiTek Industries, Inc. Wed Apr 29 10:
ID:ktRAUbx3WC_8nRHUFFzJo8yKHBz-I0Z7MOWsdCUDRvu7ODIcAVEpR0BVV

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/18/16

Scale = 1:41.1



Building Designer shall note magnitude of calculated deflections.

24-0-0
24-0-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [12:0-1-8,Edge], [13:0-11-0,Edge], [16:0-1-8,0-0-0], [17:0-1-8,Edge], [20:1-0-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.71	15-16	>399	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(TL)	-1.11	15-16	>256	240	M18SHS	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(TL)	0.15	13	n/a	n/a		
BCDL	5.0	Code IRC2009/TPI2007		(Matrix)							Weight: 93 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 20=1300/0-5-8, 13=1300/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4426/0, 3-4=-4426/0, 4-5=-6353/0, 5-6=-6353/0, 6-7=-6345/0, 7-8=-6345/0, 8-9=-6345/0, 9-10=-4428/0, 10-11=-4428/0
BOT CHORD 19-20=0/2554, 18-19=0/5665, 17-18=0/5665, 16-17=0/6353, 15-16=0/6353, 14-15=0/5661, 13-14=0/2555
WEBS 11-13=-2807/0, 2-20=-2806/0, 11-14=0/2071, 2-19=0/2069, 9-14=-1363/0, 4-19=-1370/0, 9-15=0/757, 4-17=0/1012, 7-15=-292/0, 6-15=-551/491

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Bearing at joint(s) 20, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) 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.

Floor Truss Specs

STATE OF NEW HAMPSHIRE
JUAN GARCIA
No. 10868
LICENSED
PROFESSIONAL ENGINEER

STATE OF MAINE
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PROFESSIONAL ENGINEER

April 29,2015

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 02/15/2015 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 781 N. Lee Street, Suite 312, Alexandria, VA 22314.

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