

Job 77906	Truss HM983404	Truss Type HINGE MONO	Qty 1	Ply 1	West Chester 212 9 HS 14 Designer:SM (PA 30586)
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Universal Forest Products Inc., Grand Rapids, MI 49525, Steve Minahan 7.610 e Jan 29 2015 Mitek Industries, Inc. Mon Apr 27 12:14:42 2015 Page 1 of 1

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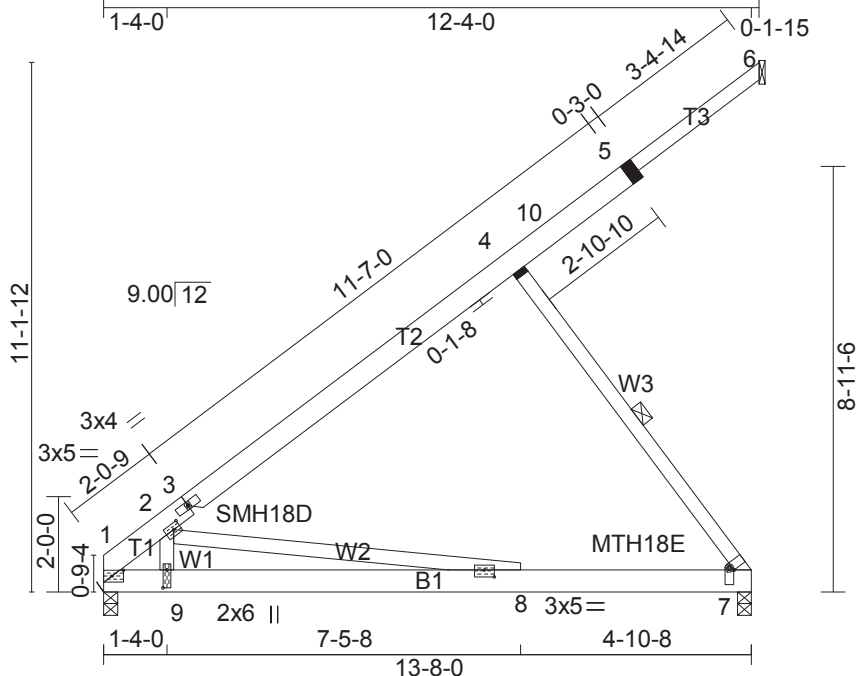


Plate Offsets (X,Y)-- [1:0-2-15,0-1-8], [2:0-1-12,0-1-8], [7:0-0-11,0-1-2], [8:0-2-8,0-1-12], [9:0-4-8,0-1-0]

SPACING- : 2-0-0 LOADING (psf) TCLL 42.3 (Ground Snow=55.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- : 1-4-0 LOADING (psf) TCLL 63.5 (Ground Snow=82.5) TCDL 15.0 BCLL 0.0 * BCDL 15.0	SPACING- : 1-0-0 LOADING (psf) TCLL 84.7 (Ground Snow=110.0) TCDL 20.0 BCLL 0.0 * BCDL 20.0	SPACING- : 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	CSI. TC 0.99 BC 0.49 WB 0.80 (Matrix)	DEFL. in (loc) l/defl L/d Vert(LL) -0.28 8-9 >577 240 Vert(TL) -0.72 8-9 >226 180 Horz(TL) 0.01 7 n/a n/a	PLATES GRIP MT20 197/144 MT18HS 197/144 Weight: 68 lb FT = 0%
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LUMBER- TOP CHORD 2x6 SPF No.2 *Except* T3: 2x4 SPF No.2 BOT CHORD 2x6 SPF 2100F 1.8E WEBS 2x4 SPF Stud	BRACING- TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins. Except: [P] 4-2-0 oc bracing: 4-6 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 4-7
REACTIONS. (lb/size) 1=984/0-3-8, 7=713/0-3-8, 6=0/Mechanical Max Horz 1=625(LC 9), 6=-260(LC 14) Max Uplift 1=-270(LC 9), 7=-616(LC 9) Max Grav 1=1087(LC 14), 7=836(LC 14)	
FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-1676/291, 2-3=-1141/158, 3-4=-1085/139, 4-10=-667/135, 5-10=-618/136, 5-6=-332/153 BOT CHORD 1-9=-840/880, 8-9=-840/880, 7-8=-456/523 WEBS 2-9=0/793, 2-8=-664/389, 4-7=-872/760	

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
4=872/760/0/0

- NOTES-**
- 1) Wind: ASCE 7-05; 120mph @24in o.c.; TCDL=3.0psf; BCDL=3.0psf; (Alt. 147mph @16in o.c.; TCDL=4.5psf; BCDL=4.5psf); (Alt. 150mph @12in o.c.; TCDL=6.0psf; BCDL=6.0psf); h=30ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg=55.0 psf (ground snow); Ps=42.3 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Roof design snow load has been reduced to account for slope.
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) See HINGE PLATE DETAILS for plate placement.
 - 8) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
 - 9) All additional member connections shall be provided by others for forces as indicated.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * 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.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 1 and 616 lb uplift at joint 7.
 - 13) This truss has been designed in accordance with the 2009 IBC Section 2303.4.6, 2009 IRC Section 802.10.2.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 15) Take precaution to keep the chords in plane, any bending or twisting of the hinge plate must be repaired before the building is put into service.
 - 16) The field-installed members are an integral part of the truss design. Retain a design professional to specify final field connections and temporary supports. All field-installed members must be properly fastened prior to applying any loading to the truss. This design anticipates the final set position.
 - 17) Revision of HM983403; removed RST clip from print.

E-signed by Kevin Freeman



The professional engineering seal indicates that a licensed professional has reviewed the design under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

WARNING - Verify design parameters and READ NOTES

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This component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. 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 BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\MitekSupp\templates\ufp.tpe