



Plate Offsets (X,Y): [1:0-6-0,0-1-3], [2:0-4-15,0-0-4], [3:0-0-11,0-0-0], [5:0-0-5,0-0-0], [6:0-4-15,0-0-4], [8:0-5-4,0-1-8], [9:0-5-0,0-1-0]

SPACING: 2-0-0 LOADING (psf)	SPACING: 1-4-0 LOADING (psf)	SPACING: 1-0-0 LOADING (psf)	SPACING 2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	CSI TC 0.40 BC 0.80 WB 0.27 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) 0.34 8-9 >467 240 Vert(TL) -0.65 8-9 >246 180 Horz(TL) 0.00 7 n/a n/a	PLATES GRIP MT20 197/144 MI18 141/138 Weight: 65 lb FT = 0%
TCLL 42.3 (Ground Snow=55.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	TCLL 63.5 (Ground Snow=82.5) TCDL 15.0 BCLL 0.0 * BCDL 15.0	TCLL 84.7 (Ground Snow=110.0) TCDL 20.0 BCLL 0.0 * BCDL 20.0				

LUMBER
TOP CHORD 2 X 6 SPF No.2
BOT CHORD 2 X 8 SPF No.2
WEBS 2 X 3 SPF Stud

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-2-13 oc bracing. [P]

REACTIONS (lb/size) 1=744/0-3-8 (min. 0-1-8), 7=742/0-3-8 (min. 0-1-8)
Max Horz 1=308(LC 7)
Max Uplift 1=372(LC 9), 7=369(LC 10)
Max Grav 1=836(LC 2), 7=832(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-509/210, 2-3=-672/332, 3-12=-603/297, 4-12=-439/304, 4-13=-455/309, 5-13=-610/302, 5-6=-644/291, 6-7=-437/214
BOT CHORD 1-9=-146/374, 9-10=-135/364, 10-11=-135/364, 8-11=-135/364, 7-8=-131/376
WEBS 2-9=-404/541, 6-8=-503/622

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
4=307/311/265/0

- NOTES**
- 1) Wind: ASCE 7-05; 120mph @ 24in o.c.; TC DL=3.0psf; BCDL=3.0psf; (Alt. 147mph @ 16in o.c.; TC DL=4.5psf; BCDL=4.5psf); (Alt. 150mph @ 12in o.c.; TC DL=6.0psf; BCDL=6.0psf; 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; P_g=55.0 psf (ground snow); P_s=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 BEH18 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, with BCDL = 10.0psf.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 372 lb uplift at joint 1 and 369 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) 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.
 - 15) If shown, field installed members are an integral part of this design. To ensure proper performance, all field installed members must be installed prior to applying any loading to the truss.
 - 16) Revision of P799901; updated code.

