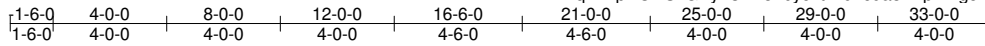


Job B1701-18	Truss E1	Truss Type COMMON GIRDER	Qty 1	Ply 3	5012 Rock Hollow 9/20(ID)RP
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Snake River Truss & Components, Idaho Falls, ID 83401

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5x8 M18SHS ||

Scale = 1:81.0

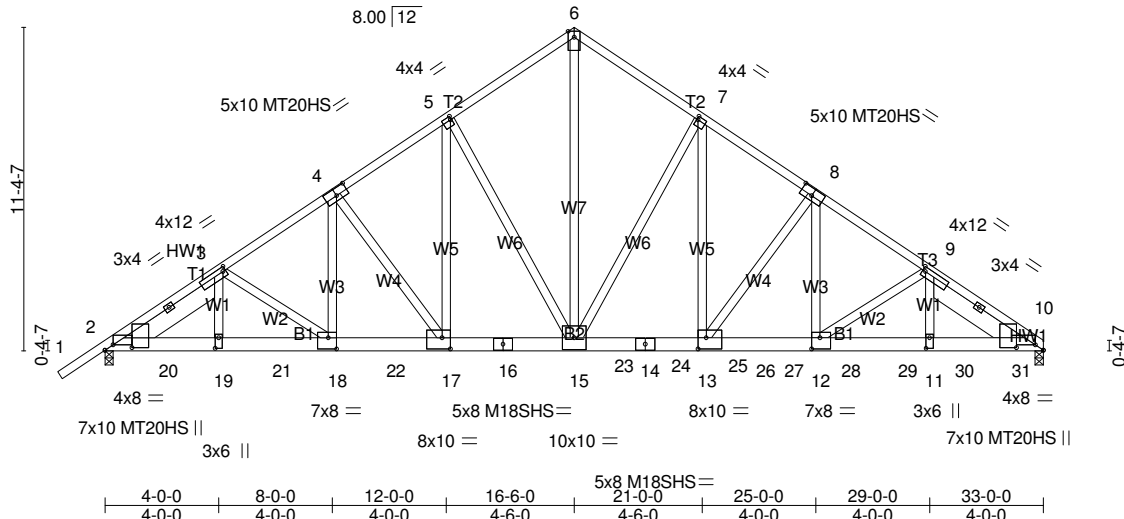


Plate Offsets (X,Y)-- [2:0-3-6,Edge], [2:0-1-0,0-11-6], [3:0-1-4,0-1-12], [4:0-5-0,0-3-0], [5:0-0-8,0-1-8], [7:0-0-8,0-1-8], [8:0-5-0,0-3-0], [9:0-1-4,0-1-12], [10:0-3-6,Edge], [10:0-1-0,0-11-6], [11:0-4-8,0-1-8], [12:0-3-8,0-4-12], [13:0-3-8,0-4-12], [17:0-3-8,0-4-12], [18:0-3-8,0-4-12], [19:0-4-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 35.0	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	-0.40 13-15	>985	360	MT20	220/195
TCDL 8.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.57 13-15	>684	240	MT20HS	165/146
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.95	Horz(CT)	0.20 10	n/a	n/a	M18SHS	220/195
BCDL 8.0	Code IRC2015/TPI2014		Matrix-R	Wind(LL)	0.13 13-15	>999	240	Weight: 767 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr	TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins.
BOT CHORD 2x6 DF 1800F 1.6E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 DF Stud/Std *Except*	
SLIDER Left 2x8 DF SS 3-10-1, Right 2x8 DF SS 3-10-1	

**REACTIONS.** (lb/size) 2=13938/0-3-8 (req. 0-4-15), 10=18551/0-3-8 (req. 0-6-10)  
 Max Horz 2=192(LC 7)  
 Max Uplift 2=-962(LC 8), 10=-1124(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-23383/1527, 3-4=-22566/1460, 4-5=-20034/1313, 5-6=-16209/1107, 6-7=-16209/1107, 7-8=-20814/1346, 8-9=-24895/1558, 9-10=-28811/1759  
 BOT CHORD 2-20=-1224/19262, 19-20=-1224/19262, 19-21=-1224/19262, 18-21=-1224/19262, 18-22=-1115/18691, 17-22=-1115/18691, 16-17=-934/16569, 16-23=-934/16569, 15-23=-934/16569, 15-24=-961/17219, 14-24=-961/17219, 14-25=-961/17219, 13-25=-961/17219, 13-26=-1195/20601, 26-27=-1195/20601, 12-27=-1195/20601, 12-28=-1422/23817, 28-29=-1422/23817, 11-29=-1422/23817, 11-30=-1422/23817, 30-31=-1422/23817, 10-31=-1422/23817  
 WEBS 6-15=-1140/17344, 7-15=-7652/526, 7-13=-539/8938, 8-13=-5702/394, 8-12=-374/6449, 9-12=-3772/267, 9-11=-211/4057, 5-15=-6331/470, 5-17=-472/7357, 4-17=-3578/306, 4-18=-266/3884, 3-18=-643/672, 3-19=-717/720

- NOTES-**
- 1) Special connection required to distribute bottom chord loads equally between all plies.
  - 2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.  
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 7-13 2x4 - 1 row at 0-6-0 oc, member 8-12 2x4 - 2 rows staggered at 0-7-0 oc, member 9-11 2x4 - 1 row at 0-4-0 oc, member 5-17 2x4 - 1 row at 0-6-0 oc, member 4-18 2x4 - 2 rows staggered at 0-7-0 oc, member 3-19 2x4 - 1 row at 0-4-0 oc.
  - 3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - 4) Unbalanced roof live loads have been considered for this design.
  - 5) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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, with BCDL = 8.0psf.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	5012 Rock Hollow9/20(ID)RP
B1701-18	E1	COMMON GIRDER	1	3	Job Reference (optional)

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**NOTES-**

- 9) WARNING: Required bearing size at joint(s) 2, 10 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 962 lb uplift at joint 2 and 1124 lb uplift at joint 10.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 298 lb up at 2-0-12, 523 lb down and 298 lb up at 4-0-12, 523 lb down and 298 lb up at 6-0-12, 2108 lb down and 135 lb up at 8-0-12, 2108 lb down and 135 lb up at 10-0-12, 2108 lb down and 135 lb up at 12-0-12, 2108 lb down and 135 lb up at 14-0-12, 2108 lb down and 135 lb up at 16-0-12, 2108 lb down and 135 lb up at 18-0-12, 2112 lb down and 135 lb up at 20-0-12, 2112 lb down and 135 lb up at 22-0-12, 2112 lb down and 135 lb up at 24-0-12, 2112 lb down and 135 lb up at 26-0-12, 2112 lb down and 135 lb up at 28-0-12, and 2112 lb down and 135 lb up at 30-0-12, and 2114 lb down and 134 lb up at 32-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-6=-86, 6-10=-86, 2-10=-16

Concentrated Loads (lb)

Vert: 16=-2108(B) 17=-2108(B) 18=-2108(B) 19=-523(B) 20=-523(B) 21=-523(B) 22=-2108(B) 23=-2108(B) 24=-2108(B) 25=-2112(B) 26=-2112(B) 27=-2112(B) 28=-2112(B) 29=-2112(B) 30=-2112(B) 31=-2114(B)