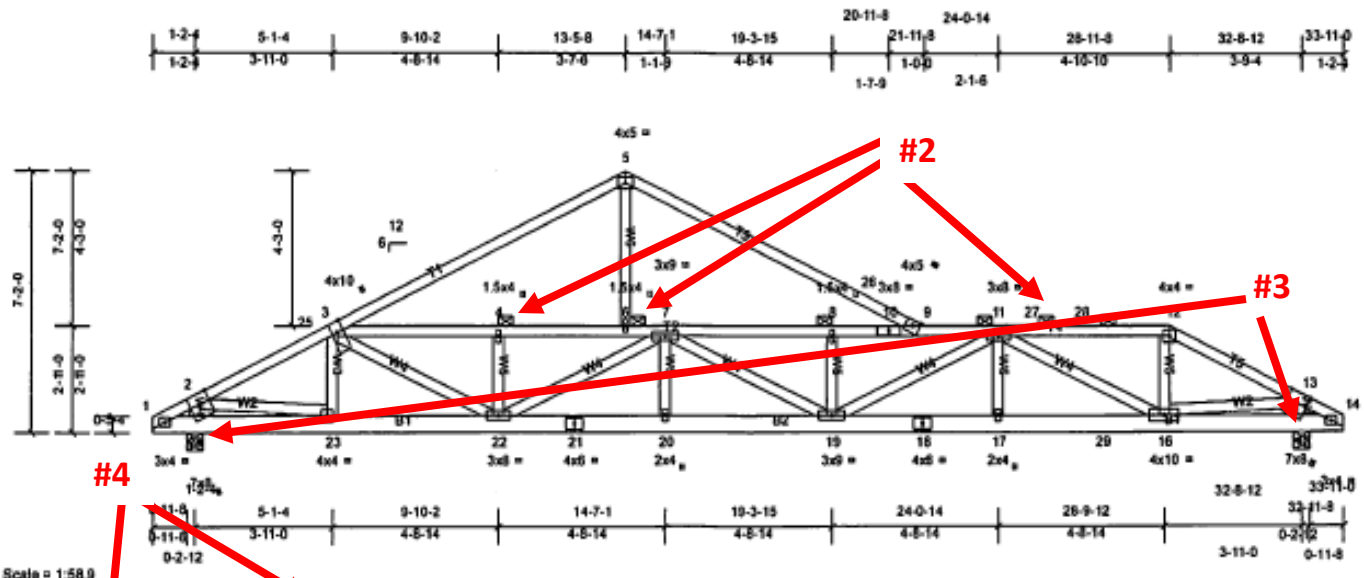


Job 24776	Truss AR2	Truss Type Roof Special Girder	Qty 1	John Smith 123 Anywhere Dr. Harrisonburg VA
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Loading (psf)	Spacing 2-0-0	CSI	DEFL	in (loc)	U/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.93	Vert(LL) -0.22	19-20	>999	360	MT20	244/190
Snow (P/Pg) 29.5/42.5	Lumber DOL 1.15	BC 0.67	Vert(TL) -0.38	19-20	>998	180		
TCDL 10.0	Rep Stress Incr NO	WB 0.38	Horiz(TL) 0.07	15	n/a	n/a		
BCLL 0.0*	Code IRC2012/TPI2007	Matrix-S	Wind(LL) 0.11	19-20	>999	240		
BCDL 10.0								Weight: 467 lb FT = 20%

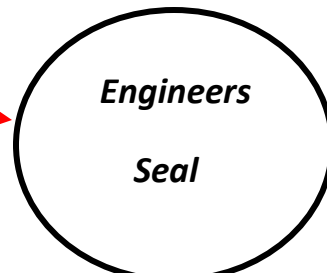
LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T3,T4;2x4 SP DSS, T2:2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-11-7 max.): 3-12.
BOT CHORD 2x6 SP DSS *Except* B2:2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 6, 8, 4
REACTIONS (lb/size) 15=2720/0-5-8, (min. 0-1-8), 24=1879/0-5-8, (min. 0-1-8)	
Max Horiz 24=97 (LC 10)	
Max Uplift 15=525 (LC 11), 24=346 (LC 11)	
Max Grav 15=2720 (LC 1), 24=2620 (LC 33)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-2=-754/99, 2-25=-389/532, 3-25=-3684/534, 3-5=-1959/262, 5-26=-1685/257, 9-26=-1933/232, 3-4=-2896/483, 4-6=-2896/483, 6-7=-2896/483, 7-8=-5088/912, 8-10=-5088/912, 9-10=-5088/912, 9-11=-6595/1080, 11-27=-3887/793, 27-28=-3887/793, 12-28=-3887/793, 12-13=-4280/851, 13-14=-703/157	
BOT CHORD 1-24=-79/851, 23-24=-92/651, 22-23=-455/3518, 21-22=-727/5100, 20-21=-727/5100, 19-20=-727/5100, 18-19=-1105/6505, 17-18=-1105/6505, 17-29=-1105/6505, 16-29=-1105/6505, 15-18=-142/654, 14-15=-142/654	
WEBS 5-6=105/542, 12-16=-339/1887, 11-17=-89/469, 8-19=-858/118, 3-23=-589/71, 2-24=-2007/262, 2-23=-375/2854, 3-22=-160/1020, 7-22=-983/150, 7-19=-336/1771, 11-19=-857/623, 11-18=-297/1419, 13-15=-2364/467, 13-16=-582/3166	

NOTES

- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all piles, 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; P=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=42.5 psf (ground snow); Pf=29.5 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.00; Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 346 lb uplift at joint 24 and 525 lb uplift at joint 15.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R602.10.2 and referenced standard ANSITPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 844 lb down and 164 lb up at 27-0-8, and 401 lb down and 142 lb up at 28-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-3=-79, 3-5=-79, 5-9=-79, 9-12=-79, 12-14=-79, 1-14=-20
Concentrated Loads (lb)



Truss Drawing Details

1. Customer Name and location.
2. Location of all required bracing.
3. Bearing points. (Note that bearing points are sometimes wider than a standard 2X4 plate)
4. Loading and spacing specs.
5. Current code edition referenced.
6. Trusses with uplift exceeding 200 pounds require mechanical fasteners.
7. Ground snow load specified at 42.5 per square foot minimum.
8. Special connection instructions.
9. Engineers seal required on all truss drawings. (Engineers seal not required for residential structures at time of plan submission, in this case, the stamped truss drawings will need to be submitted and approved prior to setting of trusses. If the stamped truss drawings do not match the unstamped plans that were submitted for plan review the job will be stopped with respect to inspections until the stamped plans have been reviewed and approved. If during the initial plan review, the plan reviewer feels that the layout is complex enough, they may require stamped plans be submitted for the initial plan review process.)