

**Rob DeRice**

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**From:** Rick Dube [Rickdube@mainelytrusses.com]  
**Sent:** Monday, July 28, 2003 9:45 AM  
**To:** rderice@maine.rr.com  
**Subject:** RE: Roof trusses with AC Unit.PDF

Bob,  
Web member W1 loaded with a 50 # concentrated load at locations K and L, with no changes to the truss.  
This configuration for your AC unit is just fine.

If you have any further questions, please let me know.

Thank you,

***Rick Dube***

Design/Sales

Mainely Trusses Inc.

Tel. 1-800-773-4911 Fax. 207-453-7652

-----Original Message-----

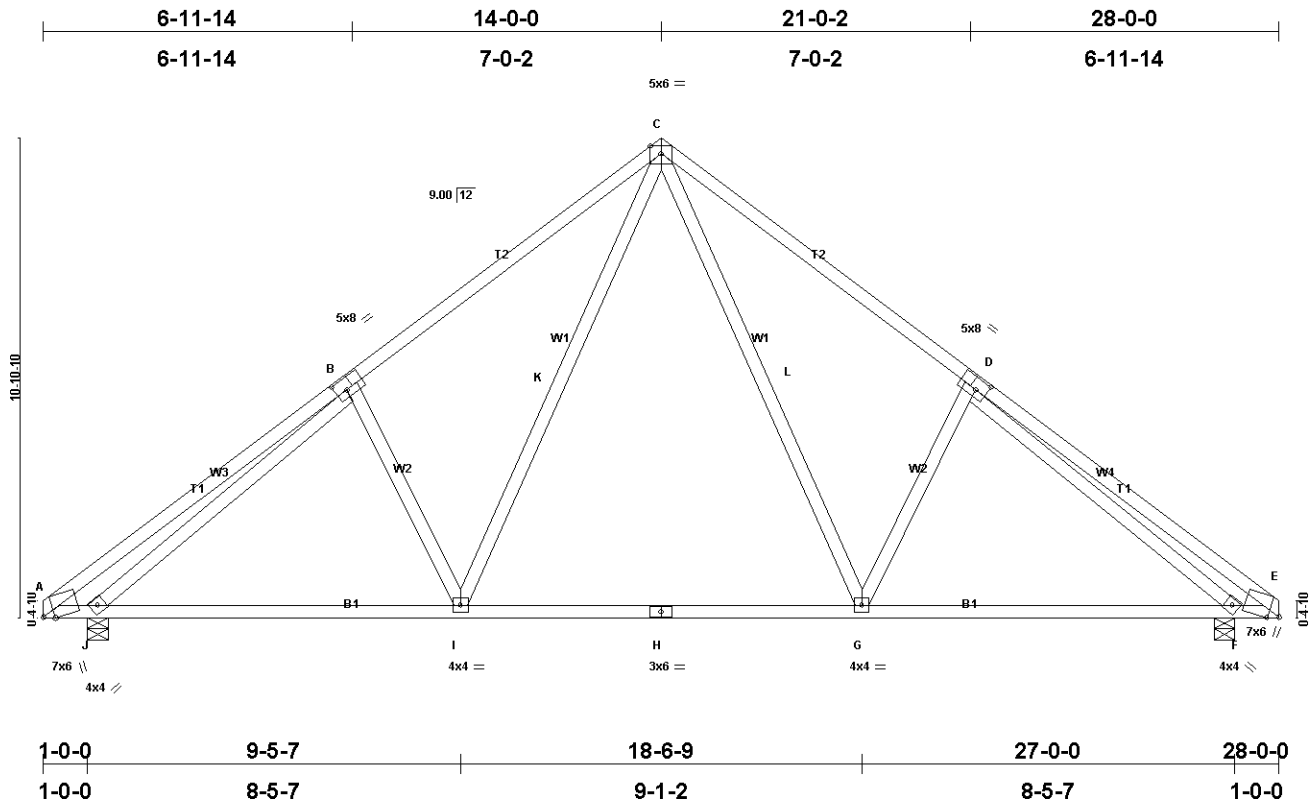
**From:** Rob DeRice [mailto:rderice@maine.rr.com]  
**Sent:** Friday, July 25, 2003 4:59 PM  
**To:** Rick Dube  
**Subject:** Roof trusses with AC Unit.PDF

Rick, Attached is the sketch. It is in PDF format so I assume you can open it. Bob DeRice

Job 017879	Truss T01-LD2	Truss Type COMMON	Qty 25	Ply 1	Job Reference (optional)
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Mainly Trusses, Inc., Fairfield, ME, Rick Dube

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Scale = 1:52.2

Plate Offsets (X,Y): [A:0-1-5,Edge], [B:0-3-0,0-3-0], [D:0-3-0,0-3-0], [E:0-1-5,Edge]

LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING 2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr YES Code BOCA/ANSI95	CSI TC 0.71 BC 0.42 WB 0.98 (Matrix)	DEFL in (loc) l/defl Vert(LL) -0.08 G-I >999 Vert(TL) -0.18 G-I >999 Horz(TL) 0.04 F n/a 1st LC LL Min l/defl = 240	PLATES MII20 GRIP 197/144 Weight: 144 lb
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LUMBER TOP CHORD 2 X 4 SYP DSS *Except* T1 2 X 4 SPF No.2, T1 2 X 4 SPF No.2 BOT CHORD 2 X 4 SYP DSS WEBS 2 X 4 SPF No.2 *Except* W3 2 X 4 SPF 2100F 1.8E, W4 2 X 4 SPF 2100F 1.8E	BRACING TOP CHORD Sheathed or 4-10-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	[P]
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REACTIONS (lb/size) J=1741/0-5-8, F=1719/0-5-8  
Max Horz J=-409(load case 2)  
Max Uplift J=-424(load case 4), F=-414(load case 5)

FORCES (lb) - First Load Case Only  
TOP CHORD A-B=500, B-C=-1820, C-D=-1838, D-E=-664  
BOT CHORD A-J=232, I-J=1471, H-I=1043, G-H=1043, F-G=1501, E-F=362  
WEBS B-I=-418, I-K=596, C-K=642, C-L=680, G-L=634, D-G=-452, B-J=-1663, D-F=-1509

- NOTES
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-98 per BOCA/ANSI95; 100mph; h=25ft; TCDL=3.0psf; BCDL=5.0psf; occupancy category II; exposure C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - 3) One RT7 USP connectors recommended to connect truss to bearing walls due to uplift at jt(s) J and F.
  - 4) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) F.
  - 5) Special hanger(s) or connection(s) required to support concentrated load(s). Design for unspecified connection(s) is delegated to the building designer.

LOAD CASE(S) Standard  
1) Regular: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: A-E=-20.0, A-C=-100.0, C-E=-100.0  
Concentrated Loads (lb)  
Vert: K=50.0 L=50.0