TO BUILD THIS ROOF-FRAME

1. PLACE CHORDS

2. PLACE CHORD SPLICE PLATES

3. PLACE WEB PLATES

4. JOIN TOobar WITH WEB PLATES

5. PLACE BOTTOM CHORD SPLICE PLATES

6. PLACE WEB PLATES ON OTHER SIDE

7. PLACE CHORD SPLICE PLATES ON OTHER SIDE

8. PLACE BOTTOM CHORD SPLICE PLATES ON OTHER SIDE

9. PLACE WEB PLATES ON OTHER SIDE

10. PLACE CHORD SPLICE PLATES ON OTHER SIDE

11. PLACE BOTTOM CHORD SPLICE PLATES ON OTHER SIDE

YOU WILL NEED THIS MATERIAL

1. WEB PLATES
2. TOP CHORDS
3. BOTTOM CHORD SPLICE PLATES
4. WEB PLATES
5. BOTTOM CHORD SPLICE PLATES

1. MEASURE SPAN

Top chords cut only if less overhang than that listed in Item "O" is desired.

To build this roof-frame, you will need this material.

Note: All 1-1/2" top chords are shown in Figure 9.

ORDER MATERIAL

From the order schedule below, determine the size of pieces needed.

Example: A span of 30' 0" requires two 22' 0" and 8' 0" members for the top chords.

ORDER SCHEDULE

Span
20' 0" 21' 0" 22' 0" 23' 0" 24' 0" 25' 0" 26' 0" 27' 0" 28' 0" 29' 0" 30' 0"

Top Chords

Cut Top Chords Only If Overhang Than That Listed in Item "O" is Desired.

Order Top Chords in 18" or 24" Increments as Shown Above.

Web Plates

Order Web Plates in 48" or 72" Lengths as Shown Above.

Complete Jig and Pattern

Materials for the top chords and web plates are shown in Figure 9. Make all the pieces with the pattern in Figure 9.

Check Pattern

Materials for the top chords and web plates are shown in Figure 9. Make all the pieces with the pattern in Figure 9.

Structural Design Data

For design of members, consider stress-grading web plate to ensure that the web plate will not fail before the chord or sheathing. Members should be spaced not more than 12" on centers. If more closely spaced, consider stress-grading the web plate to ensure that the web plate will not fail before the chord or sheathing. Members should be spaced not more than 12" on centers.

UNIT STRESSES DEVELOPED UNDER DESIGN LOAD

Spans 18'-8" to 25'-0"

<table>
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<tr>
<th>Span</th>
<th>18'-8&quot;</th>
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Notes:

- Use 1450 p.s.i. stress grade.
- Apply grading provisions to entire length of piece.
- Moisture content of lumber should be between 12 and 18 percent.
- Place additional blocks where needed.
- Use members of assembled roof-frame as pattern for cutting members of all frames.
- Disassemble the pattern roof-frame.
- Use members of assembled roof-frame as pattern for cutting members of all frames.
- Nails and screws in the roof-frame, using blocks and drill bit as a guide.
- Paint all woodwork with good quality paint.

JAMES T. LENDRUM, A.I.A.
RUDARD A. JONES, A.I.A.

UNIT STRESSES DEVELOPED UNDER DESIGN LOAD

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