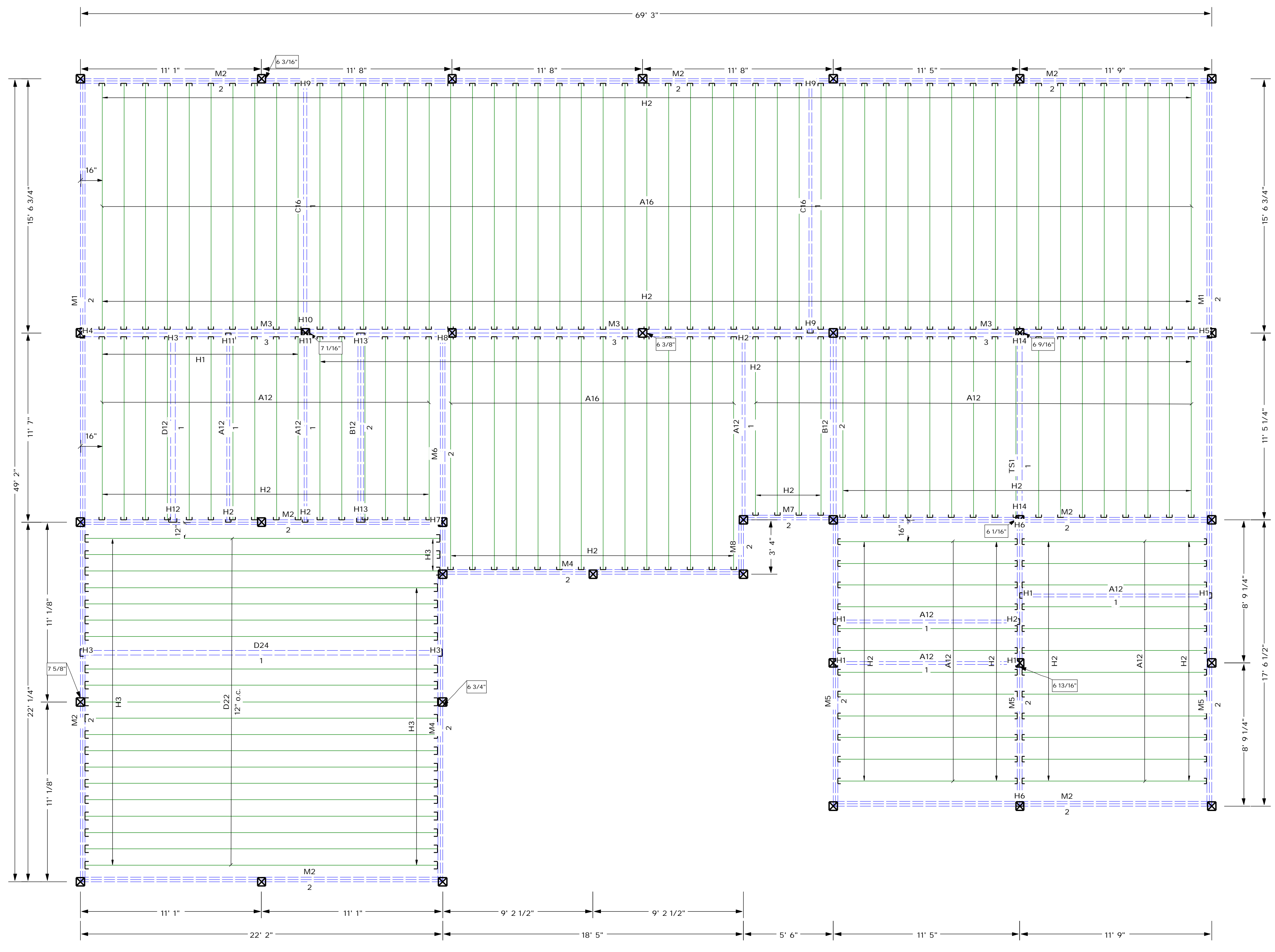


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•Preliminary: Verify lengths and Quantities



| HANGER LIST - United Steel Products Company© |     |               |           |                |               |       |
|--|-----|---------------|-----------|----------------|---------------|-------|
| Plot ID                                      | Qty | Product Label | Top Nails | Face Nails     | Member Nails  | Notes |
| H1   | 15  | THF20112      |           | 16-10d x 1-1/2 | 2-10d x 1-1/2 |       |
| H2   | 246 | THF20112      |           | 8-10d x 1-1/2  | 2-10d x 1-1/2 |       |
| H3   | 43  | THF35112      |           | 16-10d x 1-1/2 | 2-10d Common  | (2)   |
| H4   | 1   | THDH5212      |           | 56-16d Common  | 14-16d Common |       |
| H5   | 1   | THDH610       |           | 46-16d Common  | 12-16d Common |       |
| H6   | 2   | THDH410       |           | 46-16d Common  | 12-16d Common |       |
| H7   | 1   | HD412         |           | 22-16d Common  | 10-10d Common |       |
| H8   | 1   | THF35112      |           | 16-10d x 1-1/2 | 2-10d Common  |       |
| H9   | 3   | THF23118      |           | 14-10d x 1-1/2 | 2-10d x 1-1/2 |       |
| H10  | 1   | Not Found     |           |                |               |       |
| H11  | 2   | Not Found     |           |                |               |       |
| H12  | 1   | Not Found     |           |                |               |       |
| H13  | 2   | THF20112-2    |           | 16-10d x 1-1/2 | 6-10d Common  | (2)   |
| H14  | 2   | THDH410       |           | 46-16d Common  | 12-16d Common |       |

Hanger Notes:  
(2) Web-Stiffeners Required

| JOIST AND BEAM LIST |        |  |       |     |
|---------------------|--------|--|-------|-----|
| Plot ID             | Length | Product                                | Plies | Qty |
| A16                 | 16'    | 11 7/8" TJI 210 Joist                  | 1     | 65  |
| A12                 | 12'    | 11 7/8" TJI 210 Joist                  | 1     | 67  |
| B12                 | 12'    | 11 7/8" TJI 210 Joist                  | 2     | 4   |
| C16                 | 16'    | 11 7/8" TJI 360 Joist                  | 1     | 2   |
| D24                 | 24'    | 11 7/8" TJI 560 Joist                  | 1     | 1   |
| D22                 | 22'    | 11 7/8" TJI 560 Joist                  | 1     | 20  |
| D12                 | 12'    | 11 7/8" TJI 560 Joist                  | 1     | 1   |
| M1                  | 28'    | 1 3/4" x 11 7/8" 1.9E Microllam LVL    | 2     | 4   |
| M2                  | 24'    | 1 3/4" x 11 7/8" 1.9E Microllam LVL    | 2     | 16  |
| M3                  | 24'    | 1 3/4" x 11 7/8" 1.9E Microllam LVL    | 3     | 9   |
| M4                  | 20'    | 1 3/4" x 11 7/8" 1.9E Microllam LVL    | 2     | 4   |
| M5                  | 18'    | 1 3/4" x 11 7/8" 1.9E Microllam LVL    | 2     | 6   |
| M6                  | 16'    | 1 3/4" x 11 7/8" 1.9E Microllam LVL    | 2     | 2   |
| M7                  | 6'     | 1 3/4" x 11 7/8" 1.9E Microllam LVL    | 2     | 2   |
| M8                  | 4'     | 1 3/4" x 11 7/8" 1.9E Microllam LVL    | 2     | 2   |
| TS1                 | 12'    | 3 1/2" x 11 7/8" 1.7E TimberStrand LSL | 1     | 1   |

| ACCESSORIES LIST |         |   |      |
|------------------|---------|---|------|
| Plot ID          | Length  | Product   | Qty  |
| Wb1              | 8 7/8"  | 2x4 Web Stiffeners                              | 2 86 |
| Wb2              | 8 7/8"  | 23/32" x 2 5/16" Web Stiffeners                 | 2 8  |
| Sh1              | 4' x 8' | 23/32" Structurwood Edge Gold (24" Span Rating) | 1 93 |

| LEVEL NOTES                |  |
|----------------------------|--|
| File Name:                 | R06-043326Helwig_JOB   |
| Level Name:                | 1st Floor  |
| Plotted:                   | 4/12/2006 14:21  |
| Design Status:             | 1st Floor.....4/12/2006 14:01<br>Roof.....4/12/2006 14:00  |
| NOTE:                      | Level design times indicated above provide assurance for proper level stacking.  |
| Design Methodology:        | ASD  |
| Floor Area Loading 1's:    | 40psf Live Load and 15 psf Dead Load   |
| Maximum Joist Deflection:  | L/480 Live Load<br>L/240 Total Load  |
| TJ-Pro Rating Information: | Weighted Average: 52<br>Lowest Rating: 46<br>Highest Rating: 59<br>Glued & Nailed Decking is Required<br>Direct Applied Ceiling of 1/2" Gypsum is Required<br>Floor Decking: 23/32" Structurwood Edge Gold (24" Span Rating)<br>Normal O.C. Spacing = 16"<br>*Unless noted otherwise |
| Layout Scale:              | 1/4" = 1'  |

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| SYMBOL LEGEND |  |
|---------------|--|
| ■             | Note from Operator   |
| ◇             | Point Load   |
| —             | Line Load  |
| ▭             | Area Load  |
| ⊥             | Required Bearing Length in inches (Adequate bearing has been provided if bearing length is not indicated.) |

**NAILING REQUIREMENTS**

TJI® joists at bearings: Two 8d (2 1/2") box nails (1 each side), 1 1/2" minimum from end.

Blocking panels, rim joist or rim board to bearing plate:  
TJI® blocking panels or rim joist: 10d (3") box nails at 6" o.c.  
Trus Joist rim board: Toenail with 10d (3") box nails at 6" o.c. or 16d (3 1/2") box nails at 12" o.c.  
Shear transfer: Connections equivalent to decking nail schedule.

Rim board, rim joist or closure to TJI® joist:  
1 1/2" width or less: Two 10c (3") box nails, one each at top and bottom flange.  
2 1/2" thru 2 3/4" widths: Two 16d (3 1/2") box nails, one each at top and bottom flange.  
3 1/2" width: Toenail joist to rim joist with one 10d (3") box nail each side of joist top flange.

2x4 minimum squash blocks: Two 10d (3") box nails, one each at top and bottom flange.

**WARNING**  
Joists are unstable until braced laterally

Bracing includes:  
• Blocking • Sheathing  
• Hangers • Rim Joist  
• Steel Lines • Trus Joist

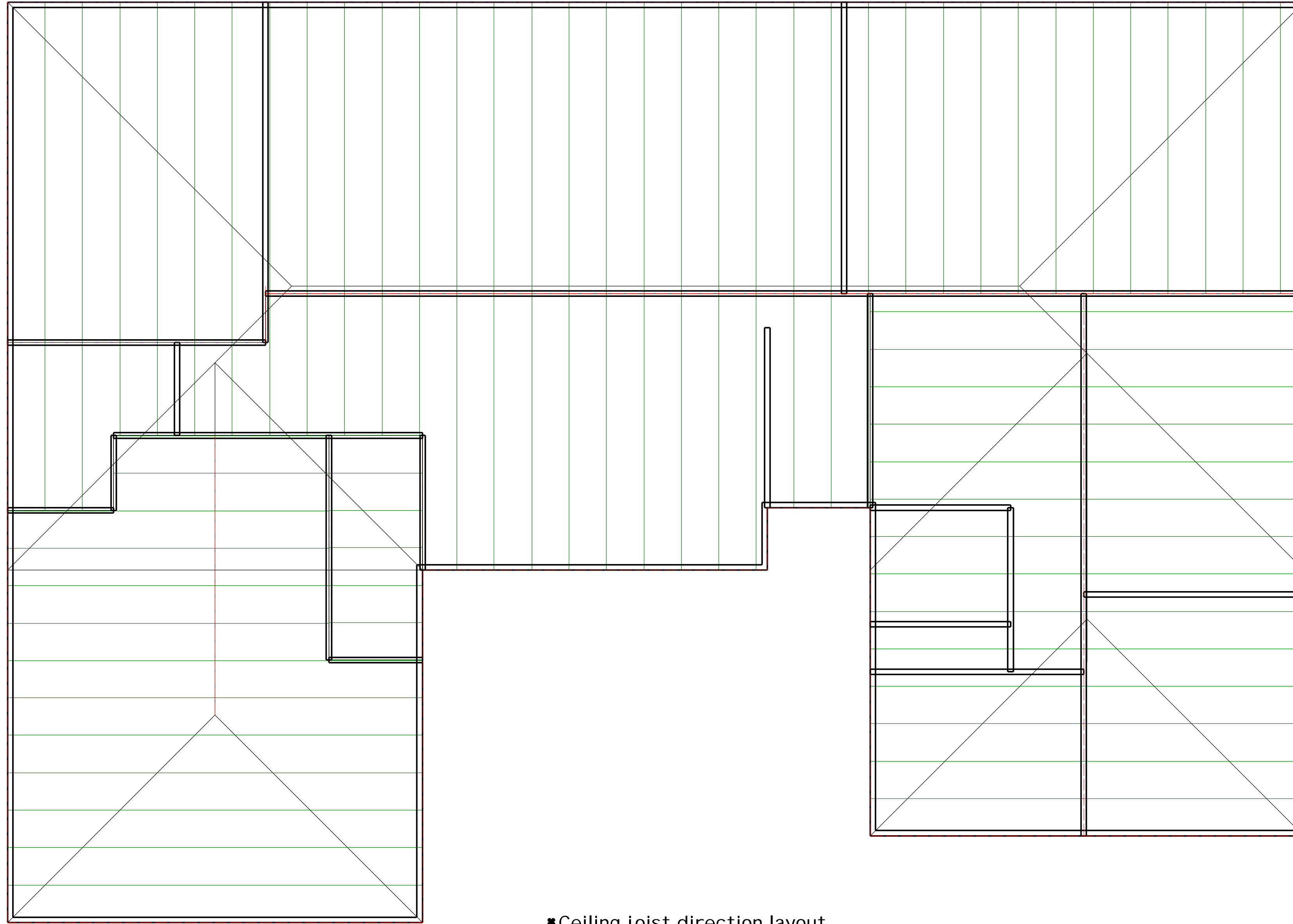
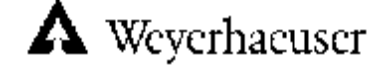
**DO NOT** allow workers to walk on joists until braced. **INJURY MAY RESULT.**

**DO NOT** stack building materials on unsheathed joists. **Stack only over beams or walls.**

**WARNING NOTES:**  
Lack of concern for proper bracing during construction can result in serious accidents. Under normal conditions if the following guidelines are observed, accidents will be avoided.

- All blocking, hangers, rim boards and rim joists at the end supports of the TJI® joists must be completely installed and properly nailed.
- Lateral strength, like a braced end wall or an existing deck, must be established at the ends of the bay. This can also be accomplished by a temporary or permanent deck (sheathing) fastened to the top flange of joists at the end of the bay.
- Decking blocking lines of 1x4 (minimum) must be nailed to a braced end wall or sheathed area as in note 2 and to each joist. Without the bracing, loading attempts or collapse is highly probable under light construction loads - like a worker or one layer of unnailed sheathing.
- Sheathing must be totally attached to each TJI® joist before additional loads can be placed on the system.
- Ends of cantilevers require safety bracing on both the top and bottom flanges.
- The flange must remain straight within a tolerance of 1/8" from true alignment.

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■ Ceiling joist direction layout  
All joists on this level to be provided by others.

### NAILING REQUIREMENTS

**TJI® joists at bearings:** Two 8d (2½") box nails (1 each side), 1½" minimum from end.

**Blocking panels, rim joist or rim board to bearing plate:**  
TJI® blocking panels or rim joist: 10d (3") box nails at 6" o.c.  
Trus Joist rim board: Toenail with 10d (3") box nails at 6" o.c. or 16d (3½") box nails at 12" o.c.  
Shear transfer: Connections equivalent to decking nail schedule.

**Rim board, rim joist or closure to TJI® joist:**  
¾" width or less: Two 10d (3") box nails, one each at top and bottom flange.  
2½" thru 2½" widths: Two 16d (3½") box nails, one each at top and bottom flange.  
3½" width: Toenail joist to rim joist with one 10d (3") box nail each side of joist top flange.

**2x4 minimum squash blocks:** Two 10d (3") box nails, one each at top and bottom flange.



### WARNING

Joists are unstable until braced laterally



DO NOT stack building materials on unsheathed joists. Stack only over beams or walls.

DO NOT allow workers to walk on joists until braced. INJURY MAY RESULT.

#### Bracing Includes:

- blocking
- sheathing
- lengers
- rim board
- stud lines
- rim joist

#### WARNING NOTES:

Lack of concern for proper bracing during construction can result in serious accidents. Under normal conditions if the following guidelines are observed, accidents will be avoided.

1. All blocking, lengers, rim boards and rim joists at the end supports of the TJI® joists must be completely installed and properly nailed.
2. Lateral strength, like a braced end wall or an existing deck, must be established at the ends of the bay. This can also be accomplished by a temporary or permanent deck (sheathing) fastened to the first 4 feet of joists at the end of the bay.
3. Safety bracing lines of full instrument must be nailed to a brace, etc. wall or sheathed area as in note 2 and to each joist. Without this bracing, sliding is inevitable or collapse is likely possible under light construction loads. Use a minimum of one layer of unnailed sheathing.
4. Sheathing must be totally attached to each TJI® joist before additional bracing can be placed on the system.
5. Ends of cantilevers require safety bracing on both the top and bottom flanges.
6. The tongue must remain straight within a tolerance of 1/8" from the alignment.

| SYMBOL LEGEND |                    |
|---------------|--------------------|
| ■             | Note from Operator |
| —             | Line Load          |
| ▭             | Area Load          |

| CREATED BY  |  |
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| LEVEL NOTES   |  |
|---|--|
| File Name:  | R06-043326Helwig_JOB   |
| Level Name:   | Roof   |
| Plotted:  | 4/12/2006 14:21  |
| Design Status:  | 1st Floor.....4/12/2006 14:01<br>Roof.....4/12/2006 14:00  |
| NOTE: Level design times indicated above provide assurance for proper level stacking. |  |
| Design Methodology:   | ASD  |
| Roof Area Loading 1s:   | 20psf Live Load (125% LDF) and 15 psf Dead Load Operator added additional loads.   |
| Maximum Joist Deflection:   | L/360 Flat Roof - Live Load<br>L/240 Sloped Roof - Live Load<br>L/240 Flat Roof - Total Load<br>L/180 Sloped Roof - Total Load |
| Layout Scale:   | 1/4" = 1'  |