“The Best Project Ever”

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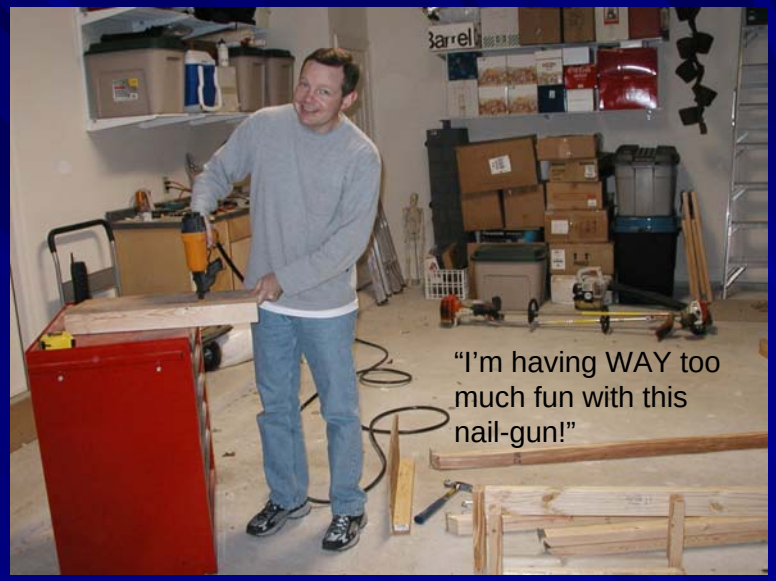
Project Overview

- Systems
  1. Diaphragm
  2. Shear Walls
  3. Braces
  4. Rigid Joints
  5. Diagonal Braces

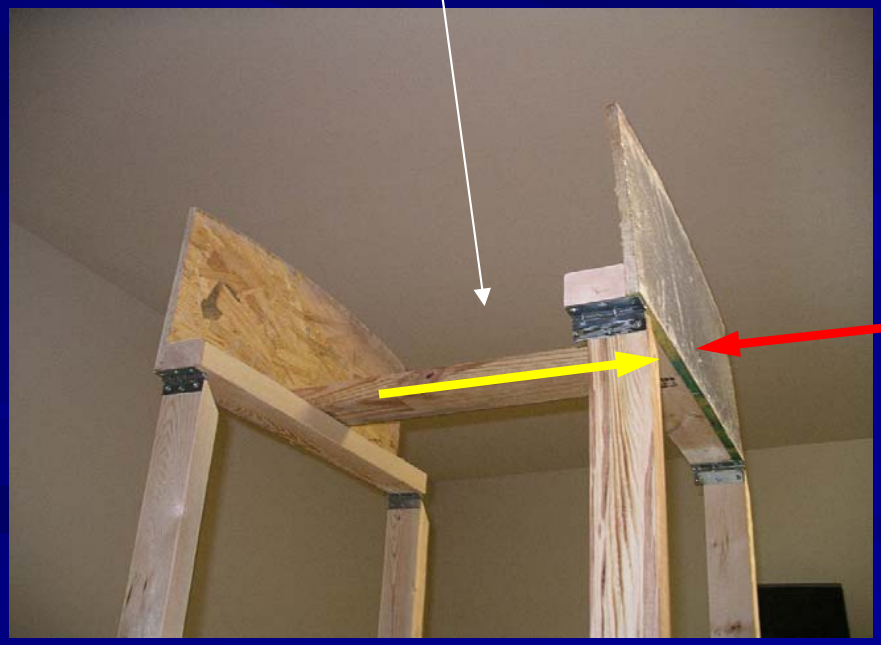
- Basic Components
  - Column
  - Hinge
  - Beams

Basic Construction



Systems
1. Diaphragm

- A horizontal (or nearly horizontal) structural element used to distribute inertial lateral forces to vertical elements of the lateral-force resisting system.



Systems
2. Shear Wall

Without shear wall

A wall that resists lateral forces applied parallel with its plane.

Matt = P, the applied load.

With shear wall

Systems
3. Braces

- A support of framing lumber used to stiffen the structure at specific points
- Reduce column lengths and increase their load-carrying capacities

Systems
4. Rigid Joints

- Connections that do not allow any relative rotations to occur between the ends of the attached members, although the joints themselves may rotate as a unit.

Systems
5. Diagonal Tension Straps

- Used to resist lateral forces by anchoring one column to another