Build Love Project

Construction Plans
## Build Love Project Cut List

<table>
<thead>
<tr>
<th>Legend</th>
<th>Qty</th>
<th>Dimension</th>
<th>Location/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
<td>2&quot;x4&quot; x 20'</td>
<td>Long Wall Top and Bottom Plate</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>2&quot;x4&quot; x 185''</td>
<td>Short Wall Top and Bottom Plate</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>2&quot;x4&quot; x 16'</td>
<td>Top Plates Short Walls</td>
</tr>
<tr>
<td>D</td>
<td>4</td>
<td>2&quot;x4&quot; x 118-3/4&quot;</td>
<td>Bedroom Top Plate/Center Wall Top/Bottom Plate</td>
</tr>
<tr>
<td>E</td>
<td>2</td>
<td>2&quot;x4&quot; x 110-3/4&quot;</td>
<td>Top Plates Long Walls</td>
</tr>
<tr>
<td>F</td>
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<td>2&quot;x4&quot; x 10'</td>
<td>Bedroom Top/Bottom Plate</td>
</tr>
<tr>
<td>G</td>
<td>55</td>
<td>2&quot;x4&quot;x92-1/4&quot;</td>
<td>studs walls</td>
</tr>
<tr>
<td>H</td>
<td>9</td>
<td>2&quot;x4&quot; x 36&quot;</td>
<td>Window Frames/Cripples</td>
</tr>
<tr>
<td>I</td>
<td>3</td>
<td>2&quot;x4&quot; x 17-1/4&quot;</td>
<td>Window Top Cripple</td>
</tr>
<tr>
<td>J</td>
<td>6</td>
<td>2&quot;x4&quot; x 79&quot;</td>
<td>Interior Wall Studs</td>
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<tr>
<td>K</td>
<td>1</td>
<td>2&quot;x4&quot; x 41&quot;</td>
<td>Door Header</td>
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<tr>
<td>L</td>
<td>4</td>
<td>2&quot;x4&quot; x 10-1/8&quot;</td>
<td>Door Cripple</td>
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<tr>
<td>H1</td>
<td>2</td>
<td>2&quot;x4&quot; x 36&quot;</td>
<td>Headers bedroom Door</td>
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<tr>
<td>M</td>
<td>2</td>
<td>2&quot;x4&quot;x80-1/2&quot;</td>
<td>Door Cripple Center Wall</td>
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<tr>
<td>N</td>
<td>2</td>
<td>2&quot;x6&quot; x 117-1/4&quot;</td>
<td>Ledger Bedroom/Loft</td>
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<tr>
<td>O</td>
<td>5</td>
<td>2&quot;x6&quot; x 182&quot;</td>
<td>Bedroom Ceiling Joists</td>
</tr>
<tr>
<td>O1</td>
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<td>2&quot;x6&quot; x 16'</td>
<td>Bedroom Ceiling Joists</td>
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<tr>
<td>J1</td>
<td>2</td>
<td>48&quot; x 96&quot;</td>
<td>3/4&quot; Plywood Loft</td>
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<tr>
<td>K1</td>
<td>1</td>
<td>48&quot;x94-1/2&quot;</td>
<td>3/4&quot; Plywood Loft</td>
</tr>
<tr>
<td>L1</td>
<td>1</td>
<td>40-3/4&quot; x 94-1/2&quot;</td>
<td>3/4&quot; Plywood Loft</td>
</tr>
<tr>
<td>M1</td>
<td>2</td>
<td>22-1/2&quot;x48&quot;</td>
<td>3/4&quot; Plywood Loft</td>
</tr>
<tr>
<td>N1</td>
<td>1</td>
<td>24&quot; x 48&quot;</td>
<td>3/4&quot; Plywood Loft</td>
</tr>
<tr>
<td>P1</td>
<td>1</td>
<td>24&quot; x 40-3-4&quot;</td>
<td>3/4&quot; Plywood Loft</td>
</tr>
<tr>
<td>P</td>
<td>1</td>
<td>2&quot;x6&quot; x 24'</td>
<td>Roof Ridge</td>
</tr>
<tr>
<td>Q</td>
<td>4</td>
<td>2&quot;x6&quot; x 10'</td>
<td>Rafter - Fascia &quot;A&quot;</td>
</tr>
<tr>
<td>R</td>
<td>4</td>
<td>2&quot;x6&quot; x 10'</td>
<td>Rafter - End Wall &quot;B&quot;</td>
</tr>
<tr>
<td>S</td>
<td>18</td>
<td>2&quot;x6&quot; x 10'</td>
<td>Rafter - Common &quot;C&quot;</td>
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<tr>
<td>T</td>
<td>8</td>
<td>2&quot;x6&quot; x 45-3/4&quot;</td>
<td>Roof Lookouts</td>
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<tr>
<td>U</td>
<td>8</td>
<td>2&quot;x6&quot; x 22-1-1/2&quot;</td>
<td>Pressure/Bird Blocks Roof</td>
</tr>
<tr>
<td>U1</td>
<td>8</td>
<td>2&quot;x6&quot; x 22-3/8&quot;</td>
<td>Pressure/Bird Blocks Roof</td>
</tr>
<tr>
<td>V</td>
<td>4</td>
<td>2&quot;x6&quot; x 21-3/4&quot;</td>
<td>Pressure/Bird Blocks Roof Ends</td>
</tr>
<tr>
<td>W</td>
<td>4</td>
<td>4&quot; x 4'</td>
<td>1/2&quot; Plywood Roof Sheating</td>
</tr>
<tr>
<td>X</td>
<td>6</td>
<td>2' x 8'</td>
<td>1/2&quot; Plywood Roof Sheating</td>
</tr>
<tr>
<td>Y</td>
<td>4</td>
<td>48&quot; x 6-1/4&quot; x 30-1-8&quot;</td>
<td>1/2&quot; Plywood Endwall</td>
</tr>
<tr>
<td>Z</td>
<td>4</td>
<td>48&quot; x 30-1-8&quot; x 54&quot;</td>
<td>1/2&quot; Plywood Endwall</td>
</tr>
<tr>
<td>A1</td>
<td>1</td>
<td>2&quot;x4&quot; x 46-7/8&quot;</td>
<td>Center Cripple Roof Stud</td>
</tr>
<tr>
<td>B1</td>
<td>4</td>
<td>2&quot;x4&quot; x 10-7/8&quot; – 15-3/8&quot;</td>
<td>End Wall Roof Cripple</td>
</tr>
<tr>
<td>C1</td>
<td>4</td>
<td>2&quot;x4&quot; x 22-7/8&quot; – 29&quot;</td>
<td>End Wall Roof Cripple</td>
</tr>
<tr>
<td>D1</td>
<td>4</td>
<td>2&quot;x4&quot; x 34-7/8&quot; – 40-3/4&quot;</td>
<td>End Wall Roof Cripple</td>
</tr>
<tr>
<td>E1</td>
<td>4</td>
<td>2&quot;x4&quot; x 12'</td>
<td>Fascia</td>
</tr>
<tr>
<td>F1</td>
<td>2</td>
<td>2&quot;x4&quot; x 46-1/2&quot;</td>
<td>Window Loft Frames/Cripples/Headers</td>
</tr>
<tr>
<td>G1</td>
<td>2</td>
<td>2&quot;x4&quot; x 24&quot;</td>
<td>Window Loft Frames/Cripples</td>
</tr>
<tr>
<td>H1</td>
<td>1</td>
<td>2&quot;x4&quot; x 14-1/8&quot;</td>
<td>Window Loft Top Cripple</td>
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<tr>
<td>I1</td>
<td>1</td>
<td>2&quot;x4&quot; x 5-3/4&quot;</td>
<td>Window Loft bottom Cripple</td>
</tr>
</tbody>
</table>

**Notes:** Verify ALL measurements! Check ALL windows and doors **PRIOR** any cutting! Measure twice! Cut Once!
Floor Plan

Details 1-4 Show how to mark the chalk lines.

Wall Framing Left See Detail 6
Wall Framing Right See Detail 7
Wall Framing Bedroom See Detail 10
Wall Framing See Detail 9
Wall Framing See Detail 8

A

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A - 1
When laying out rafters using a speed square use the COMMON scale 6 or degrees 26.5 deg.
Roof Plywood Cutting Diagram

Make 4 letter Z's - 2 full sheets required

Make 4 letter Y's - 1 full sheet required

Gable Endwall Plywood - Detail Cuts

Cut 4 Pcs

Make 6 letter X's - 3 full sheets required

Make 4 letter W's - 2 full sheets required

Roof Plywood Cutting Diagram

CL-3 | Build Love Project - House Plans

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Hole location:
Measure FROM the chalk line to the center of the anchor bolt. Mark the sill.

Edge of slab

1-3/8"

3-1/2"

2" x 4" Bottom Sill

1/2" Anchor Bolt
Drill 3/4" hole in plate

Pencil Mark
3-1/2" in from edge of slab

Chalk Line

Detail 1 Layout  -  Marking  -  Chalk Lines
Detail 2 - Layout Lines - Long Walls First

- Measure from Edge of Slab to snap FIRST line.
- Snap this chalk line FIRST.
- Measure from Edge of Slab to mark for second snap line.
- Snap this chalk line SECOND.
- Measure from Edge of Slab to mark for second snap line.

Edge of slab

3-1/2"
Detail 3 - Layout Lines - Short Walls Second

First chalk line

Measure 3-1/2" from Edge of Slab to mark start for third snap line

Second chalk line

Measure 16' along to first snap line then diagonally 20' to mark point for third snap line

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D-3
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Measure at each end of third chalk line to determine marks for chalk line 4. This will insure all walls are parallel and square.
California Corner only on long walls

Door Header Details

Detail 5 - Floor Plan - Framing Details

Elevation - Center wall channel

Rear Elevation - Back wall channel

Use Scraps for back will provide nailing for sheeting & trim

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Begin layout with measuring tape "hooked" one the end of the plate. Mark for 24" on center. Make two marks as illustrated. Center stud between points.
Detail 7 - Long Wall Framing Right Side

2"x6" Ledger for Ceiling Joists

2"x6" x 117-1/4" Ledger

Begin layout with measuring tape "hooked" one the end of the plate. Mark for 24" on center. Make two marks as illustrated. Center stud between points.
Detail 8 - Front Wall Framing

Verify all door measurements.

Note: Watch or Anchor bolt locations indoor way.

Begin layout with measuring tape 3-1/2" past end of the end of the plate. Mark for 24" on center. Make two marks as illustrated. Center stud between points.

See Cut Sheet for Rafter and Cripple Details

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D - 8
Verify all window measurements.

Detail 9 - Rear Wall Framing

Begin layout with measuring tape 3-1/2" past end of the end of the plate. Mark for 24" on center. Make two marks as illustrated. Center stud between points.

See Cut Sheet for Rafter and Cripple Details

See Detail 10 for Loft framing & flooring

Long wall end

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D - 9

H1
B1
I1
C1
D1
G1
F1
192"
46-7/8"
24"
24"
24"
24"
24"
20-1/2"
185"
92-1/4"
95-1/4"
36"
36"
36"
17-1/4"
192"
24"
Concrete Nail - one each bay
This one 2x6 attaches to the dividing wall and is 192" long (item O1 on the cut list). The other 5 loft floor joists are 182" long (item O on the cut list) and attach to the 117-1/4" 2x6 on opposite walls as shown.

The other 5 2x6 floor joists are 182" long (item O on the cut list) and attach to the 117-1/4" 2x6 on opposite walls as shown.

Note: Floor joists attach to 117-1/4" 2x6 (item N on the cut list) and NOT to the exterior wall 2x4s.
Detail 11 - Loft Sheeting

3/4" Plywood floor

J1 48" x 96"

K1 48" x 94-1/2"

L1 40-3/4" x 94-1/2"

D -11 Build Love Project - House Plans

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Detail 12 - Wall Section

1/2" Plywood Sheeting

2"x 4" Fascia

1/2" Anchor Bolt

1/2" Drywall
Spaced 1/2" Above Floor

1/2" Plywood Sheeting

1/2" lap over slab

Sheeting MUST be
BELOW RAFTERS.

Fascia must be
below sheeting

1" Plywood Sheeting Overlap

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Detail 13 - Roof Plan - Top View

- 24" x 8' Plywood sheeting (6 pcs)
- 4' x 4' Plywood sheeting (4 pcs)
- 4' x 8' Plywood sheeting (10 pcs)

See Cut Sheet for Rafter Details

Pressure Blocks

4 pcs
8 pcs
8 pcs

22-1/2" 22-3/8" 21-3/4"
1. Framing First
2. Window Second - 1 Nail each corner
3. Plywood Third
4. Trim Last with caulkign around the top and sides

48"
Detail 15 - Typical Trim
2 Circuits:
First one runs to the bedroom outlets then to the switches then to the lamps.

Second one runs to the living room outlet - then to the switch then to the lamps.

Install all outlet boxes 18" above floor and switch 41" above floor and 1/2" out from stud.