Overview of Framing Day

*Major tasks of the day*

- Stand walls
- Brace walls
- Build and install porches
- String walls
- Install cap plate
- Start sheathing exterior walls
Safety First

- Safety glasses required when using power tools
- Ramset can only be used by people who are Certified
  - http://www.ramset.com/patlicensing
- Carrying heavy and long loads.
- Never lean walls against walls that have been stood/placed
- When cutting sheathing/OSB
  - Be sure to attach 3 - 2x4 boards on saw horses
    - The 2x4 boards will allow for a ‘chase’ when ripping OSB
  - Set saw blade depth to $\frac{1}{2}$" – $\frac{3}{4}$"
Framing Overview of Build Day

- Exterior – Letter + Number
- Interior – Number only
1. Bottom Plate
2. Top Plate
3. Cap Plate
4. Common Stud
5. King Stud
6. Jack Stud
7. Cripple
8. Header
9. Sill
Anchor Bolts

- Align wall
- Measure for bolt location
- Lay wall down

Measure from:
1. Chalk line for end of wall to bolt
2. Interior wall chalk line to the bolt
Anchor Bolts cont.

- Drill hole with ¾” bit
- Add/replace Sill Seal
- Lift wall onto bolt(s)
- Lock in wall
Ramset (MUST be Certified)

- Walls should align on one line (stay consistent).
- Exterior walls – set nail toward the inside edge of bottom plate
- Place
  - w/in 6in of each end of the wall
  - Every 2\textsuperscript{nd} bay or w/in 4ft of anchor bolt
- Announce (loudly) “Noise!” prior to activating shot.
  - Ear plugs are recommended and available
Standing Back Walls

住房

👩‍❤️‍👨 Squaring walls
👩‍❤️‍👨 Set walls next to snap line to measure for slab bolt
👩‍❤️‍👨 Drill bottom plate for slab bolt.
👩‍❤️‍👨 Attach sill seal w/ 2 - 2” roofing nails on stud
👩‍❤️‍👨 Stand walls
👩‍❤️‍👨 Plumb walls
Standing walls cont.

- **2 side walls**
  - Plumb Side Walls and brace
  - Add 18” polybarrier to all exterior walls.
  - Measure 16” from the bottom of plate and snap a line. Let the remaining plastic hang. (for siding walls)
  - Measure 12” for brick walls
- Cover exterior corners with 18” polybarrier.
Standing walls cont. (tips)

- Green = BOTTOM
- Be sure no gaps between plates
- Use cleats to clamp walls together
- Be sure bottom plates and top plates are nailed securely to all studs.
- Nail off all exterior walls
- 'Tack' interior walls to exterior walls
- Be sure not to stand exterior walls too far ahead of interior wall bracing
Plumbing/Bracing walls:

- use an 8’ level
- Use 2 nails when tacking interior walls
  - Tack interior wall where it meets an exterior wall (leave nail proud) one close to each plate.
  - Tack interior walls where it intersects another interior wall
  - Interior wall corners can be nailed completely off
- Never attach blocks on garage floor for bracing
- DO NOT remove wall bracing until roof is 80% decked.
Cut a 45° at the bottom of the brace
Cut Plumbing Walls

- Mark plumbing location to be cut.
- Prior to cutting:
  - Move stud(s) if necessary.
  - Add a horizontal brace with scrap 2x4
  - Support wall under location of cut(s)
- Bathtub
  - Must be 60”
Measure from one end of the wall and transfer measurement to plate
Temporary 2x4 brace to maintain stud spacing
Stringing walls

- String all exterior walls
- 2x4 on outside top corners, run string.
- Use straight 2x4 under string to verify walls are plumb.
- After stringing and bracing walls, plumb all interior walls with 8’ level and nail off.
  - Center of bubble is essential
Cap plate

- Measure using bottom plates.
  - Mark measurements on bottom plate and cap plate.
- Cap plate only when walls are plumb and strung.
- “Walk” cap plate (work from one end)
- Overlap at least 4’ from where walls join/intersect.
- 2 nails over every stud, 5 nails on intersecting walls
Without Cap Plate

With First Piece

With Both Pieces
Temporary Truss Support

📍 Located in the front of the house where there is a dearth of interior walls.
📍 Use wall pallet to make temporary wall.
📍 **Move into house before last exterior wall is stood.**
📍 Adjust to fit space.
📍 **DO NOT** attach to slab.
Gable End Nailers/Truss Nailers

- Located on all walls with gable truss
- Placed on top of cap plate
- Use non-finger jointed 2x4
- ‘Walk’ the nailer down the wall
- No boards shorter than 4’
- 1 ½” inches from front edge, and 1½ ” from ends.
- Make sure to cover interior corners
- Use a 2x4 as a spacer
Questions?