└ Top Rail └ Bottom Rail └ Stiles └ Panels

Suggested Materials:

- ☐ Painter's Tape
- ☐ Construction Adhesive
- ☐ #6d finish nails
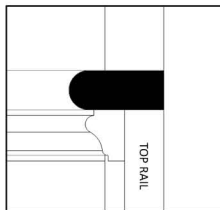- ☐ #8 Coarse Flat-Head SS Screws
- ☐ Wood Filler
- ☐ Wood Shims

Suggested Tools:

- ☐ Pencil
- ☐ Chalk & Plumb Line
- ☐ Level (24+ inch)
- ☐ Tape Measure
- ☐ Combination Square
- ☐ Utility Knife
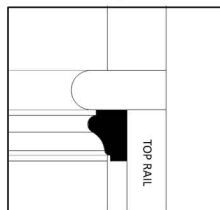- ☐ Clamps
- ☐ Claw Hammer

- ☐ Nail Set
- ☐ Hand Saw
- ☐ Miter Box
- ☐ Electric Drill
- ☐ 1/16" Drill Bit
- ☐ 5/32" Drill Bit
- ☐ Stud Finder

Safety Equipment:

- ☐ Safety Glasses
- ☐ Dust Mask

Moulding:

| Primary Wainscot Cap *Bullnose*	Second Wainscot Cap *Astragal*	Shoe Moulding *Quarter Round*	Base Moulding *(Optional)*
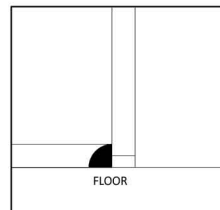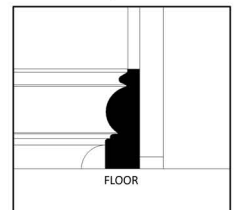
DO NOT UNBAND COMPONENTS PRIOR TO ASSEMBLY. This is a wood product and may warp if not handled properly. Remove the wainscoting from the packaging for inspection. Your wainscoting, as with all wood products, is subject to seasonal expansion and contraction. Storage of millwork must be in a cool, dry and well-ventilated area. Allow your wainscotings to condition to the environment a week prior to installation. It is imperative that you do not allow the components to have direct contact with the ground or become wet.

CHECK YOUR STATE AND LOCAL CODES BEFORE STARTING ANY PROJECT. FOLLOW ALL SAFETY PRECAUTIONS.

1 Prepare the walls by removing existing baseboard, casing and other trim that will interfere with the installation. Be careful not to damage the moulding if you intend to reuse it. Have electrical outlets relocated by a licensed electrician.
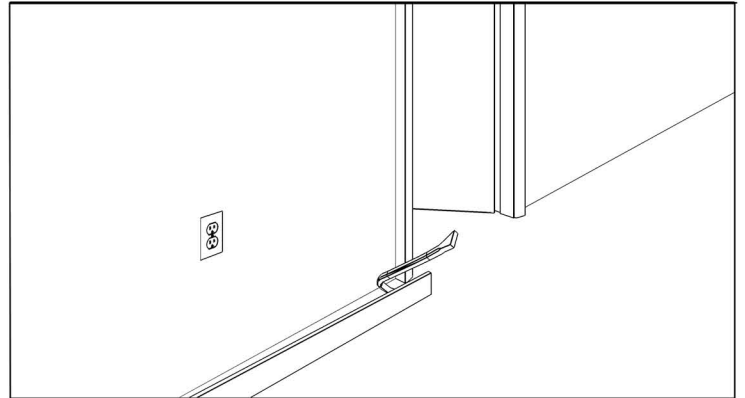

2 Walls are rarely free of defects. Verify quality by using a level, to check for unevenness. Sand or scrape off any high spots. Float out low spots with a thin coat of drywall compound. Shim as necessary during installation.

Floors are rarely level. Locate the high point of the floor. Using a level, mark a level line that clears the high point by ¼ of an inch.
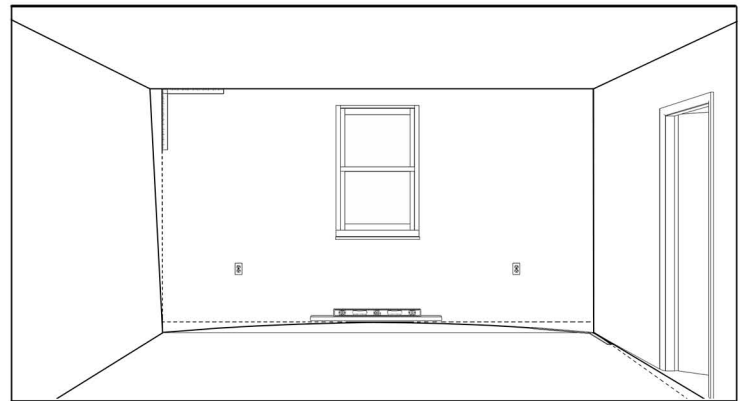

3 Locate and mark the wall studs. Using a level or plumb bob, create a plumb line from the height of the wainscot down to the floor centered on each stud location. Place painters tape just above the wainscoting height for locating the stud during installation.
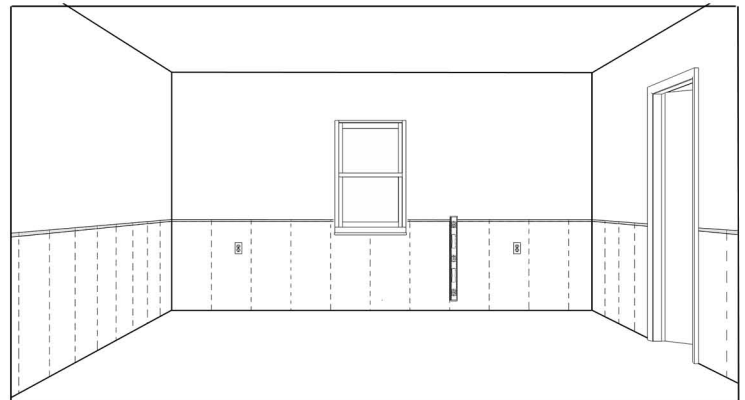
4 Perform a dry layout of each wall according to the elevation drawings provided to ensure a proper fit.

Avoid direct contact between the wainscoting and concrete; in basements, or other areas prone to moisture-wicking, vapor barriers are recommended.
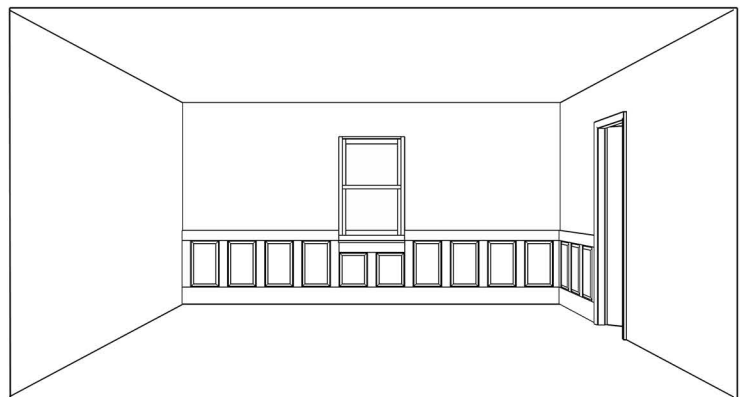
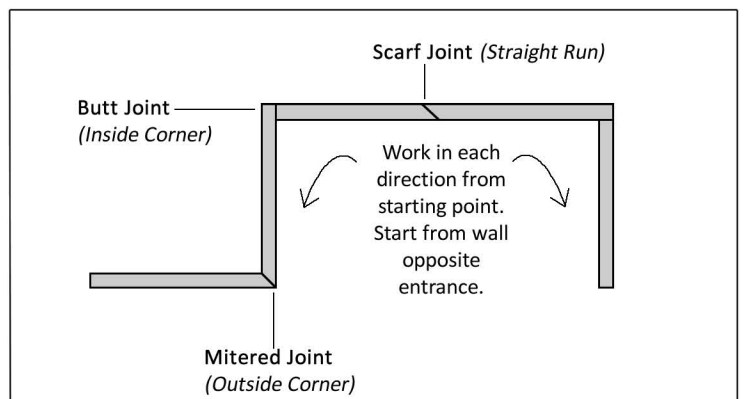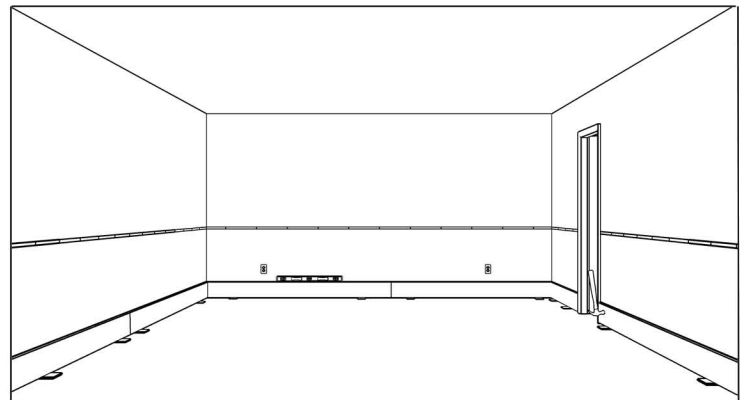**5** All wall pieces are labeled on the back to match the print included with the order.
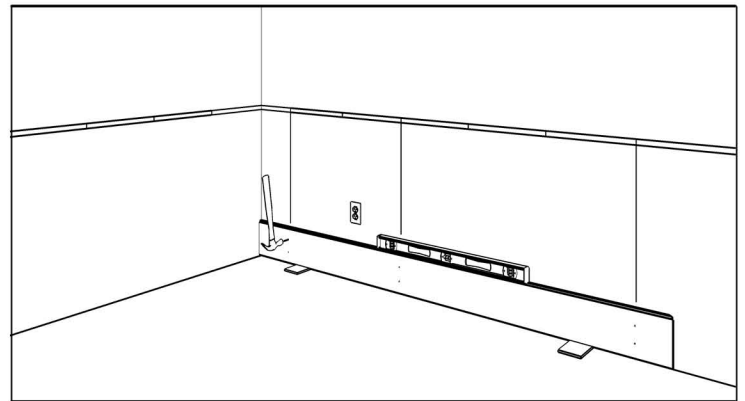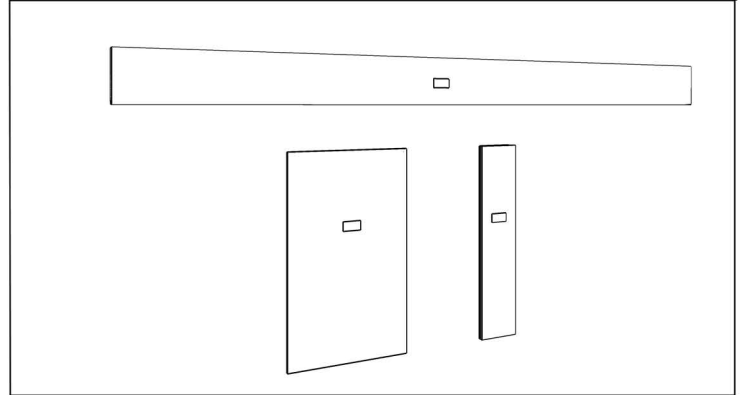
All end or corner stiles are shipped over-width to provide tolerance for field trimming. Trim as deemed necessary by the dry fit.

6 Place the bottom rail 1/4 inch above the floor. If the floor slopes more than 1/2 inch, place the rail directly down on the high point. Shim the bottom rail up as you go around the room. **The bottom rail must be installed level.**

Secure the bottom rail to the wall along the bottom edge, preferably within the area overlapped by shoe moulding or baseboard to reduce touch-up.

TIP: Pre-drill all pilot holes using a 1/16th inch drill bit, but do not drill all the way through. Fasten all rails and stiles at studs using 8d finish nails and counter-sink. Rails may be fastened with #8 coarse-thread stainless-steel screws in place of nails; use a 5/32" pilot hole.

7 BUTT JOINTS: Use a simple butt joint on the second, overlapping stile of each inside corner. SCARF JOINTS: When joining multiple rails along a straight run over 96" in length, use a 45-degree scarf joint. Brush both ends with wood glue prior to fastening. Temporarily mount a stile to maintain alignment while nailing the bottom rail into place. MITERS: Use a mitered joint for outside corners.

Scarf Joint *(Straight Run)*

Butt Joint
(Inside Corner)

Work in each direction from starting point. Start from wall opposite entrance.

Mitered Joint
(Outside Corner)

8 If no window exists in the path of the wainscoting, begin in one corner and work clockwise around the room. If a window exists in the path, see Appendix B.

Use a hammer and block to seat each stile into place.

9 Nail corner stile to wall. Corner stiles are the only stiles to be attached to the wall.

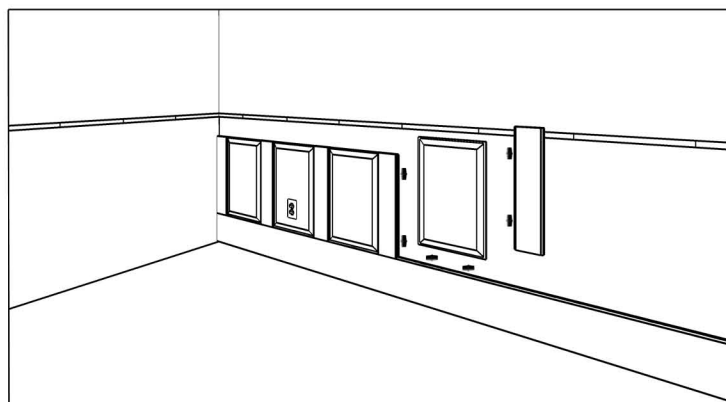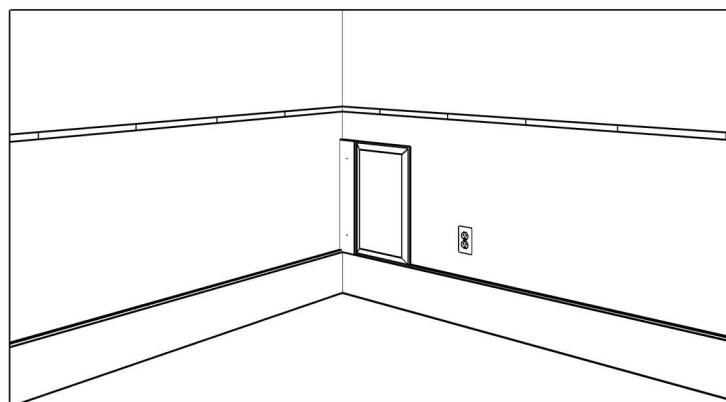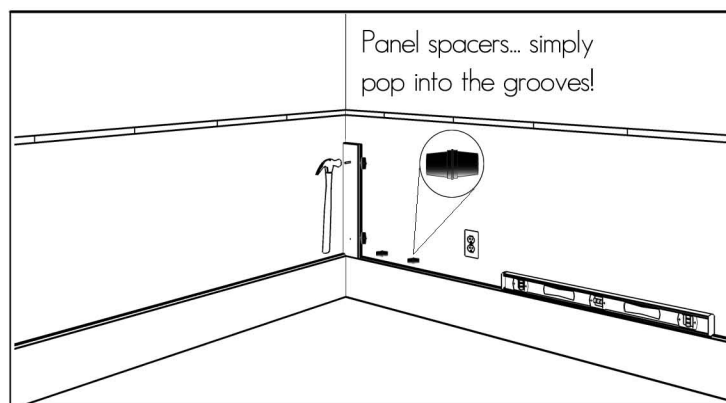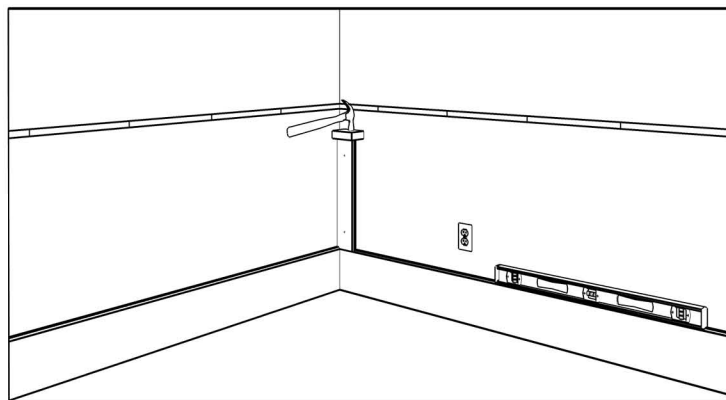Insert panel spacers into the grooves of the bottom rail and adjacent stiles.

TIP: Pre-drill all pilot holes using a 1/16th inch drill bit, but do not drill all the way through. Fasten all rails and stiles at studs using 8d finish nails. Counter-sink fasteners.

Panel spacers... simply pop into the grooves!

10 Slide panel into place. Panel spacers provide a 1/4" gap around panels, allowing for seasonal movement while mitigating rattling.

Do not glue or nail panels to the frame or wall. Panels must be allowed to 'float' within the frame.

11 Install remaining panels and stiles, working in a clockwise direction from the corner.

Be sure to insert panel spacers into the grooves of the bottom rail and adjacent stiles of each panel.

12 Insert panel spacers into the groove above each panel. Install the Top Rail.

Fasten to wall 3/4" from top allowing the secondary cap to conceal the fasteners.

TIP: Pre-drill all pilot holes using a 1/16th inch drill bit, but do not drill all the way through. Fasten all rails and stiles at studs using 8d finish nails. Counter-sink fasteners.
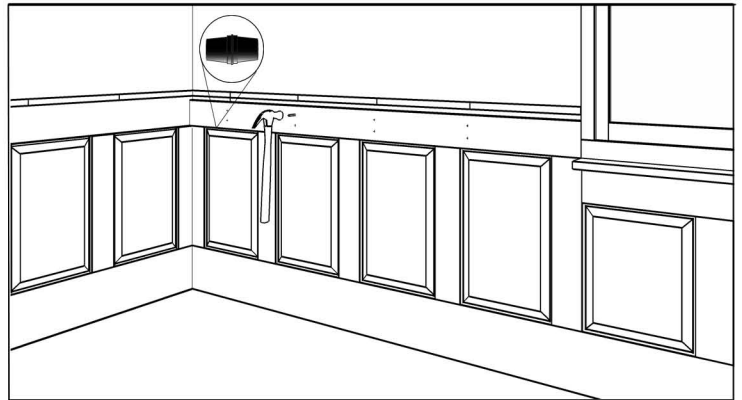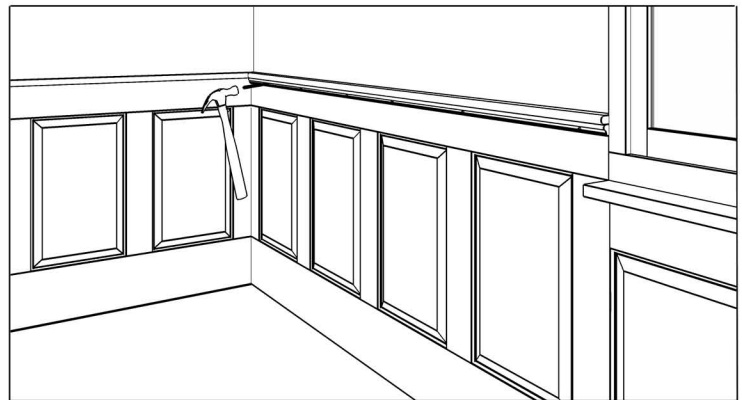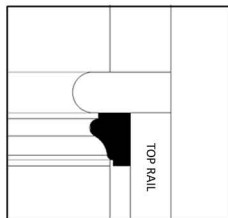

13 Install bull nose molding above the top rail; Miter corners.
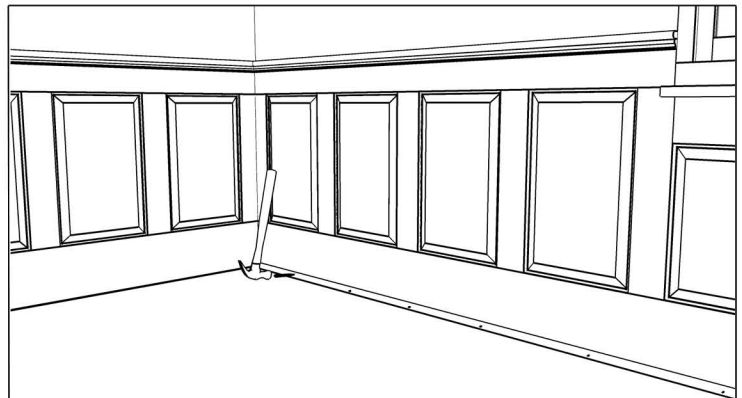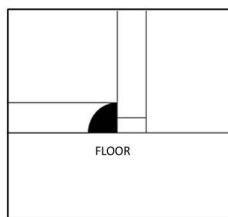

TOP RAIL
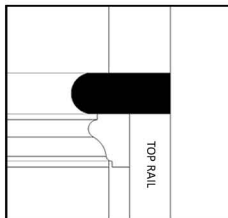
TIP: Fasten moulding with 4d finish nails; pre-drill 1/16th pilot holes. Do not drill all the way through. Counter-sink fasteners. Stay 2" from end to avoid splitting!
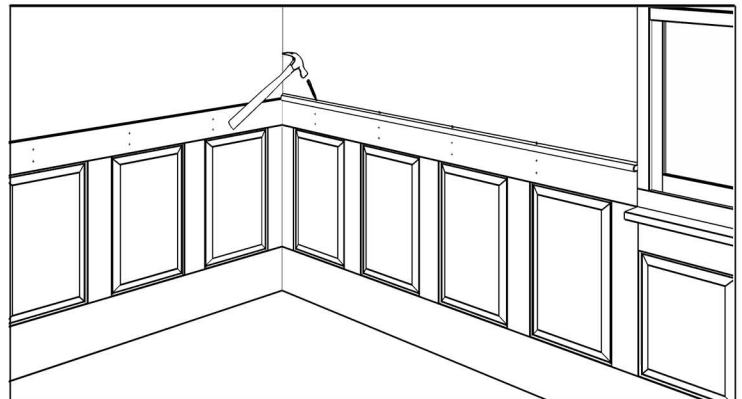
**14** Install astragal molding below beneath bull nose molding; Miter corners.

TOP RAIL

15 Install base molding around the base of the bottom rail; Miter corners.


FLOOR

APPENDIX A: ELECTRICAL OUTLETS

1 Electrical outlets may need to be modified to accept wainscoting.

Have electrical outlets relocated by a licensed electrician. Always consult an electrician and building codes before modifying electrical systems. Turn off power to the outlet before proceeding.
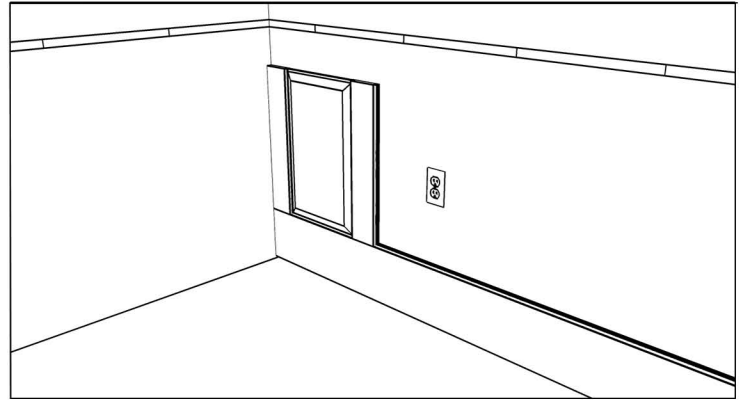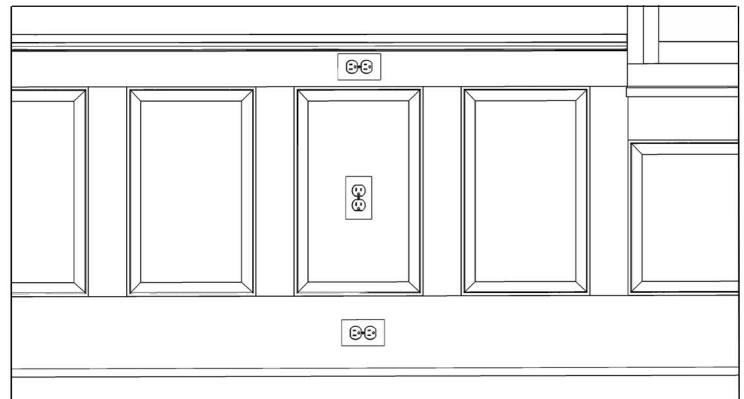
2 To make a void for electrical outlet placement, indentify the general location of the electric receptacle. Cover the area with painter's tape. Outline the exact location of the electric receptacle.

Drill a hole to accept jig saw blade. Use jig saw to cut out a void for the electrical outlet.
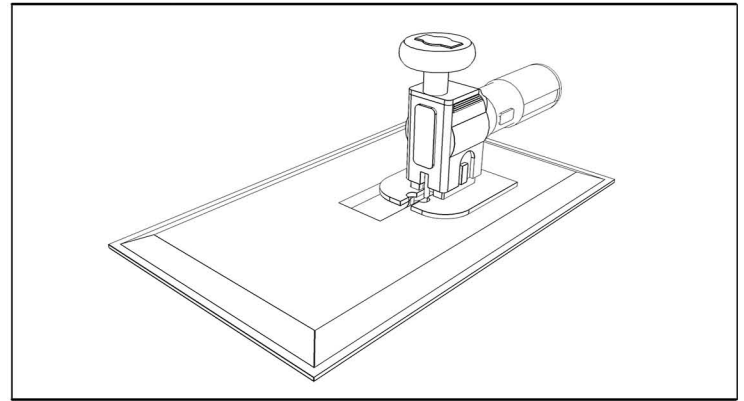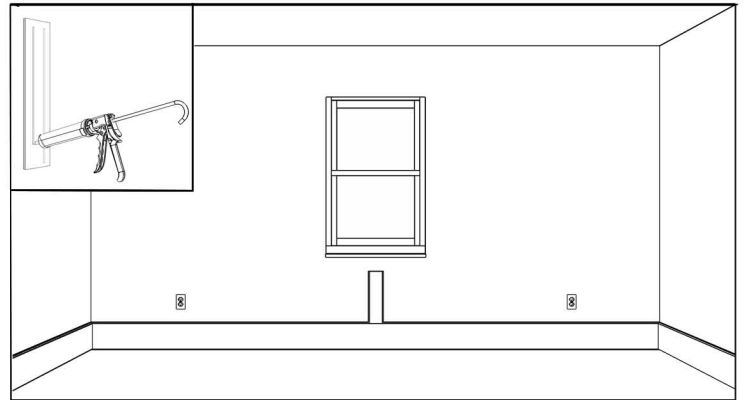
3 Electrical outlets may be located in either a rail, panel or stile.

APPENDIX B: WINDOWS

1 Place first stile under the center point of the window.

Insert panel spacers into the grooves of the bottom rail and center stile.

2 Insert panels; panel spacers provide a 1/4" gap around each panel, allowing for seasonal movement while mitigating rattling. **Do not glue or nail panels to the wall.**

Trim window rail 1/4" short. Insert panel spacers. Rotate into position and secure to the wall. *Note: To facilitate the installation, the groove backing may be removed from the window rail.*

3 Insert panel spacers and place stiles on either side of window frame. Top corner of each stile may need to be trimmed for a tight fit.

Pre-drill all pilot holes using a 1/16th inch drill bit, but do not drill all the way through. Secure all rails and stiles at studs using 8d finish nails. Counter-sink fasteners.

4 Place Remaining Panels and stiles working outward from window in each direction.
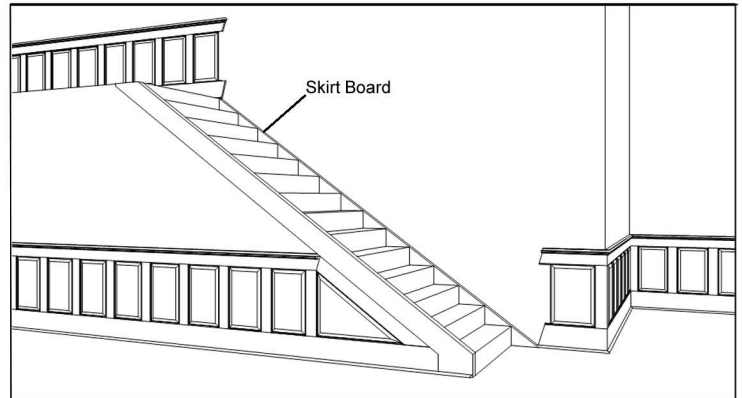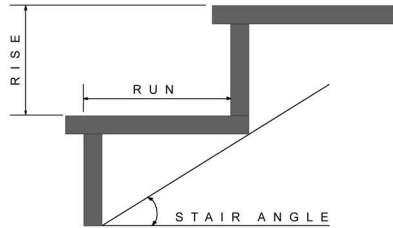
Be sure to insert panel spacers into the grooves along each panel's perimeter.

NOTE: Panels should not be attached to the wall. The top and bottom rails hold them in place.
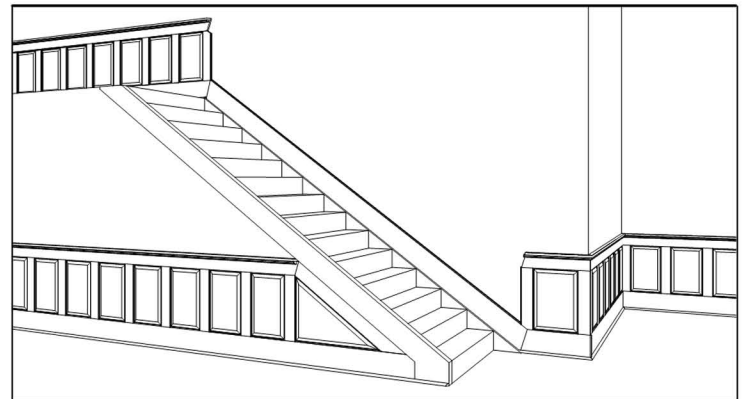

Work outwards from window
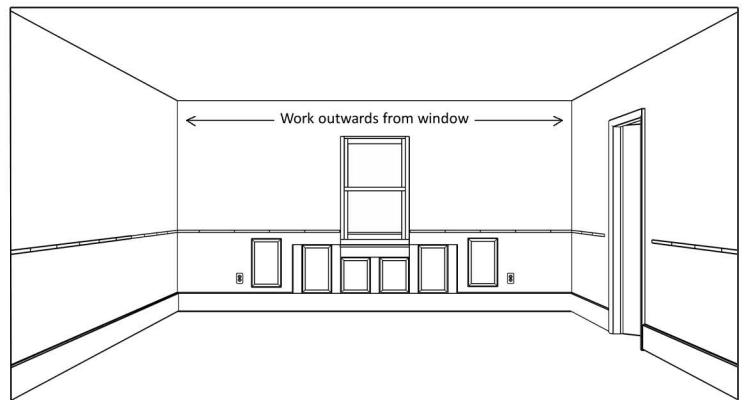
APPENDIX C: STAIRS

1 Install wainscoting on either side of the stairs to ensure proper alignment.
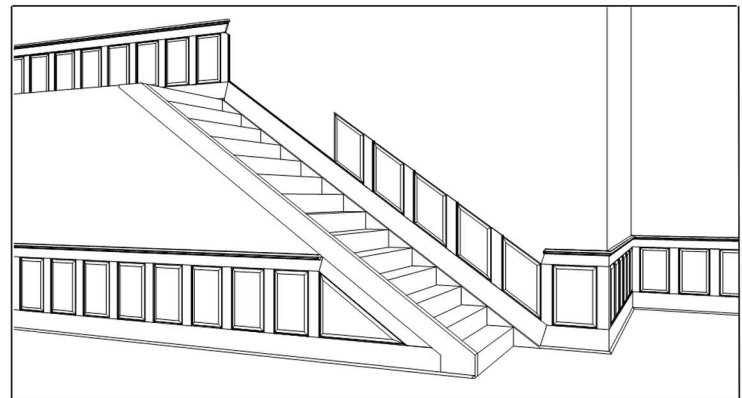

Skirt Board

2 Fit bottom rail in place above stair stringer. Some trimming may be necessary.

Attach to the wall with adhesive and nails through wall studs.

3 Insert stiles, panel spacers and panels. Do not attach these to the wall.

4 Insert panel spacers into groove of top rail. Place top rail over panels and stiles. Attach to the wall with nails through wall studs.

Nail moulding into place as with horizontal wainscoting sections.