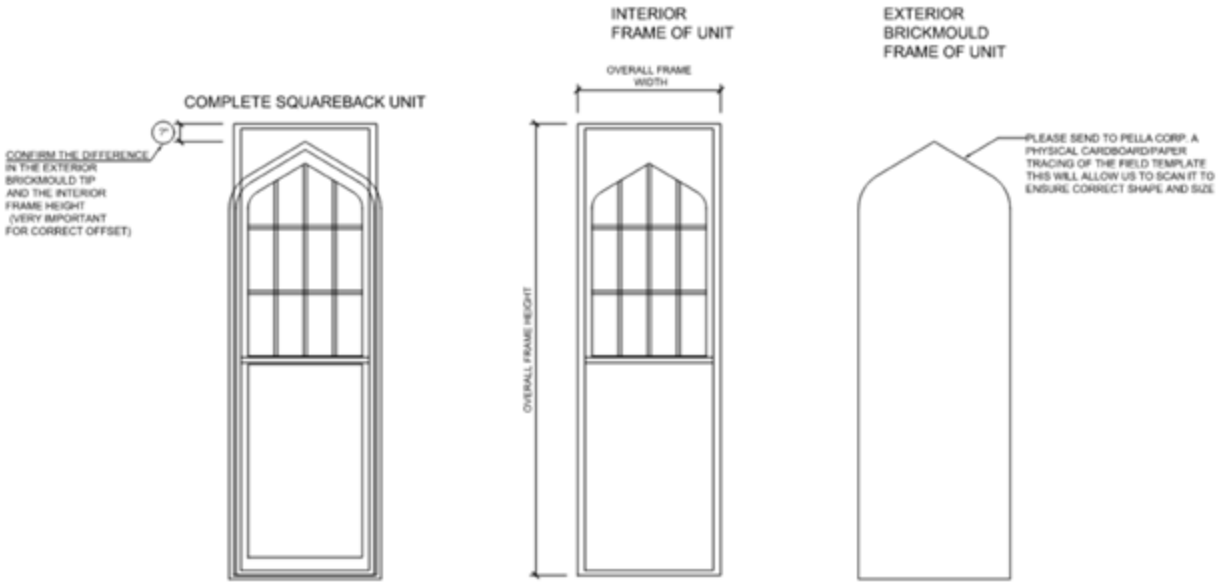
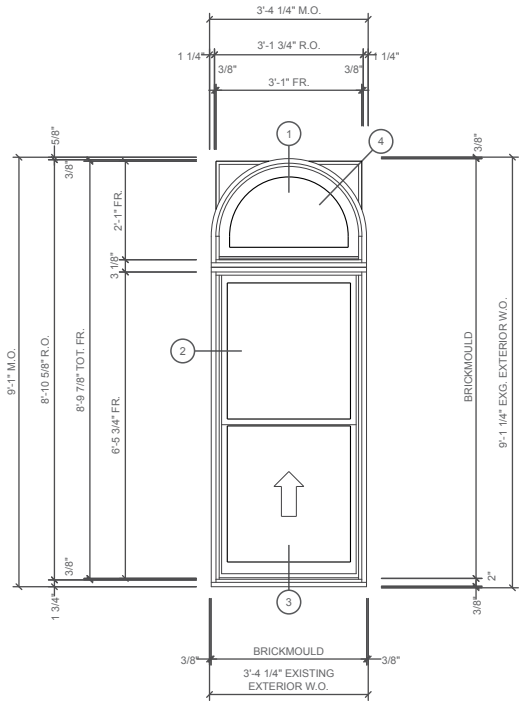
TECHNOTES

Square-Back Hung Field Measurement Guideline and Sample Installation

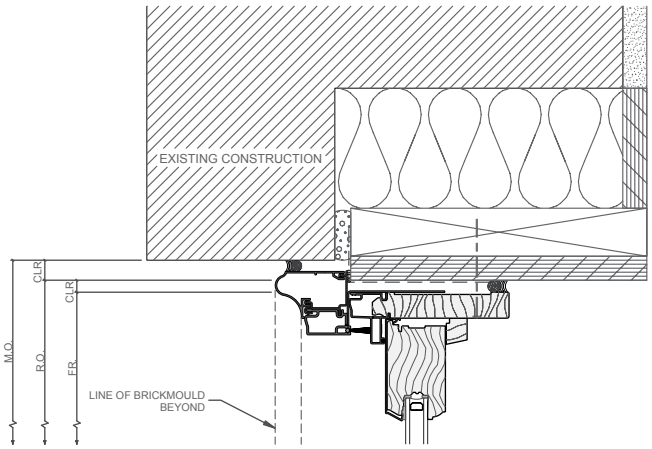
The following diagram outlines the requirements for templates and field measurement of existing square-back hung windows and openings for the preparation of custom window elevations and installation shop drawings.



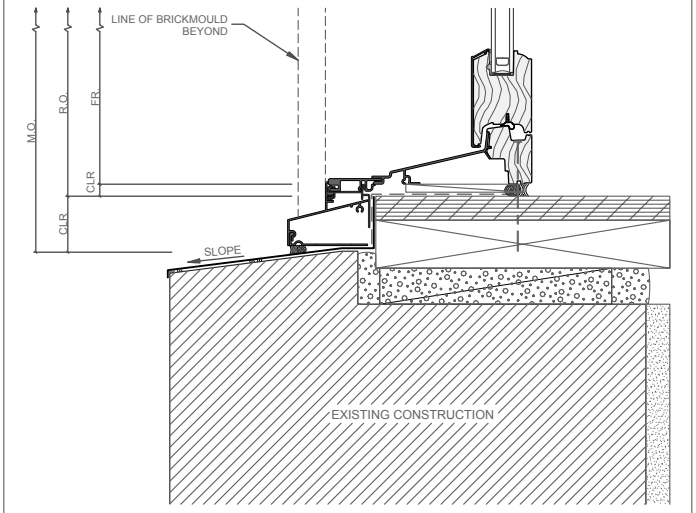
Below is an example of a shop drawing elevation and installation details created from a template, field measurements, and a PQM quote provided by a Pella Distributor. This is followed by documentation of the unit's installation in the field by others. This is intended for use as an example, is for reference only, and conditions along with the means and methods for installation can vary based on specific project requirements.



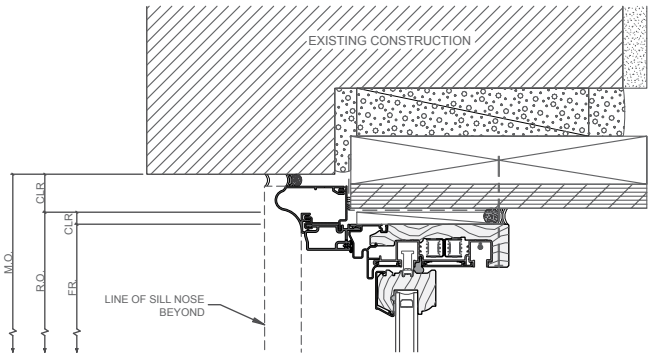
TECHNOTES



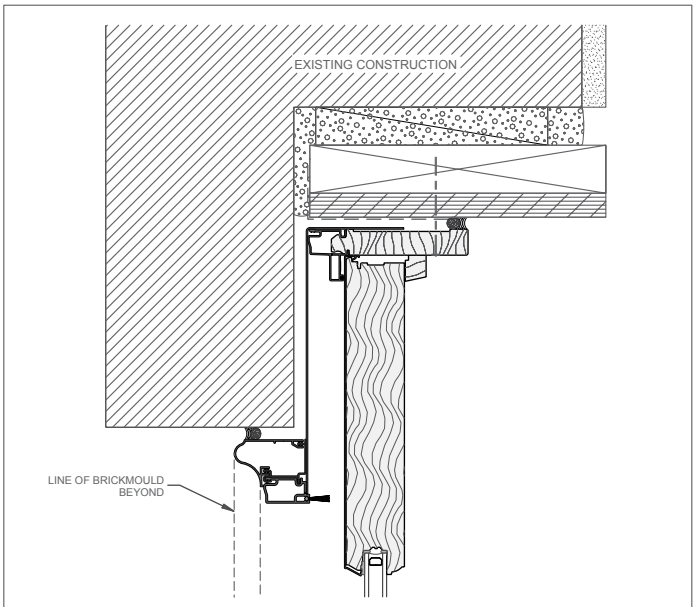
1 HEAD



3 SILL



2 JAMB



4 HEAD AT RADIUS MID-POINT





New Pella single-hung unit with custom square-back transom and existing window opening.





New wood blocking shown being added to the existing opening. Note that metal angle brackets where added at the jamb/sill corners of the new wood blocking to provide additional structural support due to the instability and irregularity of the existing masonry substrate. Shims where also placed between the new blocking and the existing masonry to transfer structural load and create an opening that was relatively plumb, level, and square. Low expansion foam insulation was used to fill remaining cavities between existing masonry and new wood blocking.





Substrate compatible flashing membrane was applied to head, jamb, and sills to protect the window from liquid water and moisture/vapor that occur in existing mass or solid brick wythe walls which manage water through absorption and evaporation. Use of a compatible sealant or primer to aide adhesion of flashing membranes to masonry is often required. Consult flashing membrane manufacturers installation instructions for recommendations. Do not extend flashing membranes beyond the plain of the exterior perimeter backer rod and sealant.



Removal of flexible flashing membrane from curved portion of Pella window frame was required.



Install a line of continuous sealant at the head and both jambs on the back face of the aluminum brickmould trim or the exterior face of the flashing membrane on the new wood blocking. Set the Pella window from the exterior, tilting to allow the square-back portion to go behind the existing masonry and allowing the back of the brickmould to be placed against the exterior face of the flashing membrane on the new wood blocking.



Once the new Pella window has been set into place, confirm that the rough opening clearances on all four sides allow for the proper shimming and placement of interior and exterior lines of perimeter sealant. Set unit plumb, level, and square per Pella installation instructions.