Key Concepts:
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Interface conditions between building envelope materials, components and systems should be fully detailed in a manner that is both technically sound and serviceable. Detailing should, at a minimum, allow for coordination of drainage planes when two or more different wall types are used in the same facade; allow for thermal and moisture-induced changes in material properties and differential thermal movement; and allow for in-service deflection, shrinkage, creep and similar behavior considered to be within the allowable structural limits of the project without compromise to the weather-tight integrity and thermal performance of the building envelope.

The air barrier can either be formed by an exterior side air barrier or by employing the interior side airtight drywall approach.

The location of or need for a vapor retarder within wall assemblies will vary based upon climate, and can be significantly influenced by the storage capacity and vapor permeance of the materials selected for each layer of the wall system. A climate-specific, hygrothermal analysis for each wall assembly should be considered to further evaluate this concern.

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Stone Veneer to Precast Horizontal Interface - Overall Detail

Conceptual – Not for Construction

Note: The presence of a continuous relieving angle and flashing as shown is not representative of typical stone veneer construction, and is intended to convey the importance of designing an anchoring system that minimizes or eliminates the need for penetrations through the flashing in cavity-type exterior wall construction.
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**STONE VENEER TO PRECAST HORIZONTAL INTERFACE - STEP 3**

**STEP 3:**

INSTALL BACKER ROD AND SEALANT BETWEEN RELIEVING ANGLE BOTTOM AND PRECAST PANEL. TIE-IN TO ALL PRECAST TWO-STAGE VERTICAL JOINTS THIS JOINT CROSSES.

INSTALL VERTICAL JOINT SEAL (PEEL-AND-STICK MEMBRANE SHOWN) SECURE PER MANUFACTURER INSTRUCTIONS. ENSURE ALL SURFACES ARE PRIMED PRIOR TO INSTALLING VERTICAL JOINT SEAL.

CONCEPTUAL—NOT FOR CONSTRUCTION
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STONE VENEER TO PRECAST HORIZONTAL INTERFACE

STEP 4:
INSTALL CORROSION-RESISTANT METAL THROUGH-WALL FLASHING. INSTALL ALL SPLICE PIECES BELOW MAIN FLASHING (AS SHOWN) WITH SUFFICIENT GAP TO ALLOW FOR CONTRACTION AND EXPANSION OF THE FLASHING MATERIAL. THE THROUGH-WALL FLASHING MATERIAL SHOWN ON THIS AND SIMILAR EXTERIOR WALL DETAILS AND ASSEMBLIES MUST INCLUDE FULLY SEALED, WATER-TIGHT END-DAMS AT ALL EXTERIOR WALL PENETRATION AND FLASHING TERMINATIONS AS NECESSARY TO COLLECT AND DRAIN RAINWATER AND/OR CONDENSATION TO THE BUILDING EXTERIOR.

CONCEPTUAL - NOT FOR CONSTRUCTION
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STONE VENEER TO PRECAST HORIZONTAL INTERFACE - STEP 5

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NOTE: ENSURE ALL SHEATHING/CONCRETE/CMU SURFACES ARE PROPERLY PREPARED AND PRIMED IN ACCORDANCE WITH THE MANUFACTURER REQUIREMENTS PRIOR TO INSTALLING THE WALL DRAINAGE PLANE PRODUCT. DETAIL THE DRAINAGE PLANE PRODUCT TO PREVENT WATER INFILTRATION AT THE STONE VENEER ANCHORS AND OTHER PENETRATIONS. THE VARIOUS PRODUCTS THAT CAN BE USED FOR THE DRAINAGE PLANE MATERIAL HAVE A WIDE RANGE OF AIR AND VAPOR PERMEANCE VALUES; SEE THE TABLES AND THE GENERAL SECTION CONTAINED WITHIN THE WALL PORTION OF THE WBDG FOR MORE SPECIFIC INFORMATION WITH REGARDS TO VAPOR RETARDERS AND AIR BARRIERS.

STEP 6:
INSTALL THE WALL MEMBRANE ABOVE THE THROUGH-WALL FLASHING, SECURE AT PENETRATION PER THE MANUFACTURER’S GUIDELINES. CARRY ONTO THROUGH-WALL FLASHING MEMBRANE PER THE MANUFACTURERS MINIMUM DISTANCE PLUS 1-INCH AND SECURE PER MANUFACTURER REQUIREMENTS.

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STONE VENEER TO PRECAST HORIZONTAL INTERFACE – STEP 6

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STONE VENEER TO PRECAST HORIZONTAL INTERFACE - STEP 7

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STONE VENEER TO PRECAST HORIZONTAL INTERFACE - STEP 10

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NOTE: THE PRESENCE OF A CONTINUOUS RELIEVING ANGLE AND FLASHING AS SHOWN IS NOT REPRESENTATIVE OF TYPICAL STONE VENEER CONSTRUCTION, AND IS INTENDED TO CONVEY THE IMPORTANCE OF DESIGNING AN ANCHORING SYSTEM THAT MINIMIZES OR ELIMINATES THE NEED FOR PENETRATIONS THROUGH THE FLASHING IN CAVITY-TYPE EXTERIOR WALL CONSTRUCTION.