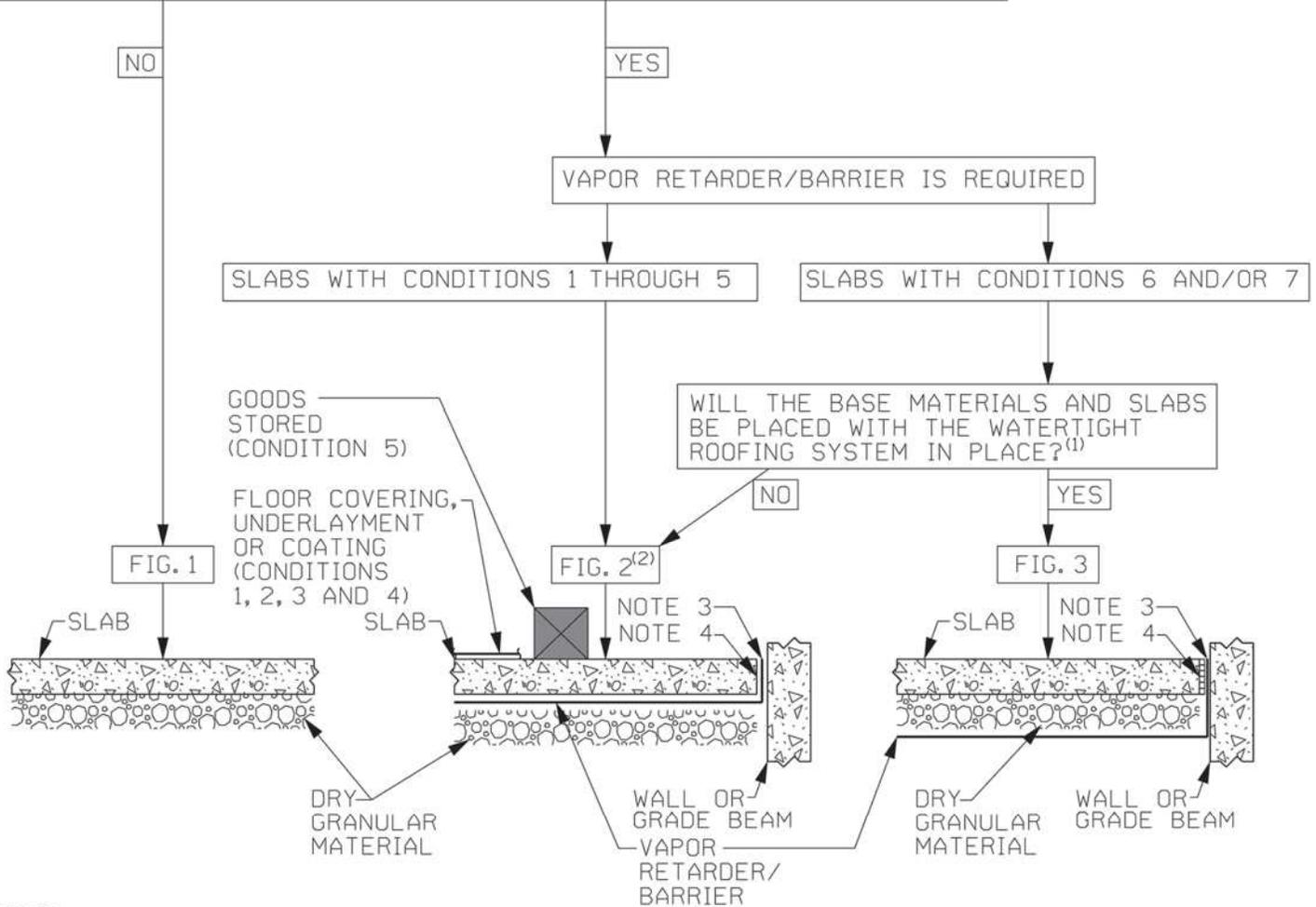


**GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1R-15)**

DOES THE SLAB-ON-GROUND HAVE ANY OF THE FOLLOWING CONDITIONS:  
 1. A MOISTURE-SENSITIVE FLOOR COVERING ON TOP OF THE SLAB  
 2. A MOISTURE-SENSITIVE FLOORING ADHESIVE  
 3. A MOISTURE-SENSITIVE UNDERLAYMENT ON TOP OF THE SLAB  
 4. A MOISTURE-SENSITIVE FLOOR COATING ON TOP OF THE SLAB  
 5. MOISTURE-SENSITIVE GOODS STORED IN DIRECT CONTACT WITH THE TOP OF THE EXPOSED SLAB SURFACE  
 6. A HUMIDITY CONTROLLED ENVIRONMENT ABOVE THE SLAB WITHOUT ANY OF THE 1 THROUGH 5 CONDITIONS INITIALLY, OR IN THE FUTURE  
 7. A CLIMATE-CONTROLLED COOLED ENVIRONMENT ABOVE THE SLAB WITHOUT ANY OF THE 1 THROUGH 5 CONDITIONS INITIALLY, OR IN THE FUTURE



**NOTES:**

- (1) IF GRANULAR MATERIAL IS SUBJECT TO FUTURE MOISTURE INFILTRATION FROM WET-CURING, WASH-DOWN AREAS SLOPED TO DRAINAGE, OR OTHER LIQUIDS THAT CAN POND ON TOP OF THE SLAB AND SEEP THROUGH JOINTS, CRACKS OR OTHER OPENINGS, USE FIG. 2.
- (2) IF FIGURE 2 IS USED, MEASURES TO MINIMIZE SLAB CURLING, DOMINANT JOINTS, DELAMINATIONS, BLISTERING, CRUSTING, PLASTIC SHRINKAGE CRACKING, BAR SHADOWING AND SUBSIDENCE CRACKING LONGITUDINALLY OVER THE REINFORCEMENT, REDUCTION IN SURFACE FLATNESS, AND FINISHING TIME WILL LIKELY BE REQUIRED.
- (3) AT THE PERIMETER, VAPOR RETARDER/BARRIER SHOULD BE TURNED UP AND SEALED TO WALL, GRADE BEAM OR SLAB.
- (4) FLEXIBLE CLOSED CELL FOAM PLANK FULL DEPTH OF SLAB (WHERE REQUIRED) WITH ELASTOMERIC JOINT SEALANT (WHERE REQUIRED). (NOTE: FOAM PLANK IS NOT SHOWN IN FIG. 2 BUT CAN BE USED AS SHOWN IN FIG. 3)

*Fig. 5.2.3.2—Flow chart to determine when and where a vapor retarder/barrier should be used.*