Electrical

Omni Block system installation interfaces a great deal with electrical requirements of a structure. Typically, the mason installs all the electrical and low voltage boxes and conduit within the block. This section is intended to outline the many options and, if adhered to, advantages of utilizing the Omni Block insulated concrete block system. The electrical placement requires some timely planning but will facilitate a quality finished product.

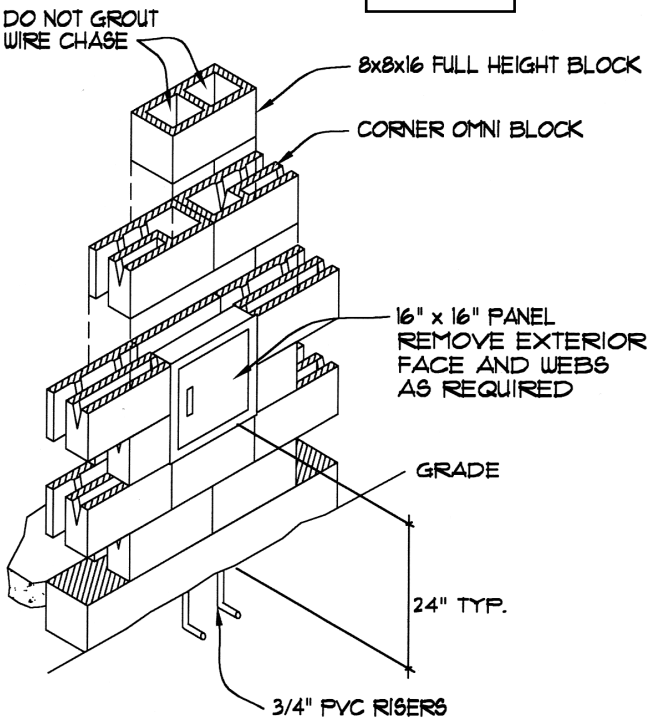
Ufer Wire

The electrician installs the Ufer wire per local building code. The Ufer will run within the block to the electrical main. The electrical main is usually about 40" from finished floor requiring approximately 6 feet of wire.

Low Voltage

Cable television, telephone, and landscape wiring can all be run from below grade, through stem, and up through the block to an access panel utilizing 3/4" PVC (see Figure 18). 3/4" 90° PVC sweeps are recommended. The cable and telephone main boxes are then located within the wall and all 'home-runs' are dropped or 'fished' down from the top of the block wall.

Figure 18

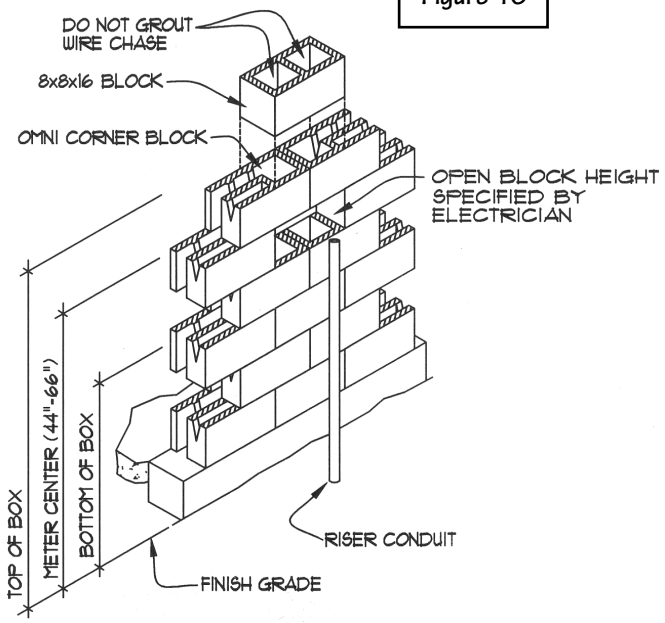


LOW VOLTAGE

Electrical Service Riser

Local code will dictate the height and location of the meter main panel or box. Figure 19 provides the typical electrical service riser block arrangement. Corner block are alternatively stacked with standard 8x8x16 CMU and left void of foam. A double chase is formed to accommodate electrical wiring running from above the top plate down the wall to the exterior opening created by removing the face and center web of a block. The local building code should be consulted to verify proper height location.

Figure 19



ELECTRICAL CHASE SCHEMATIC