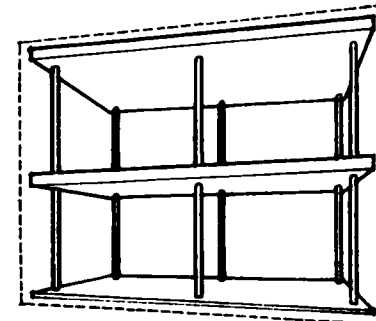
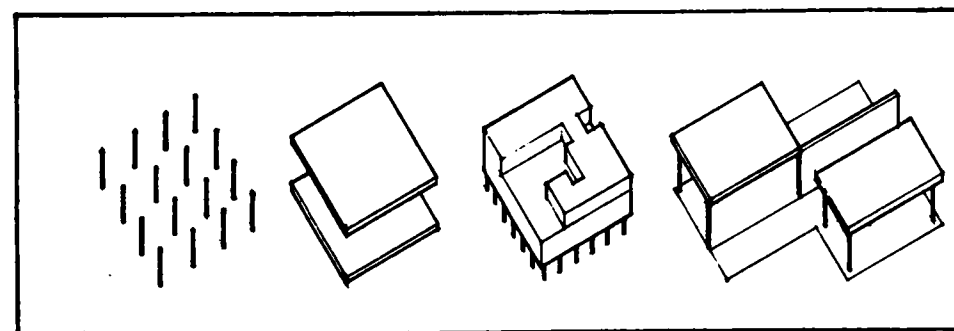
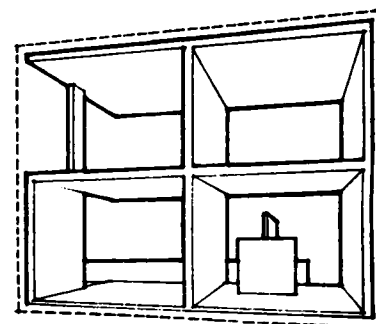
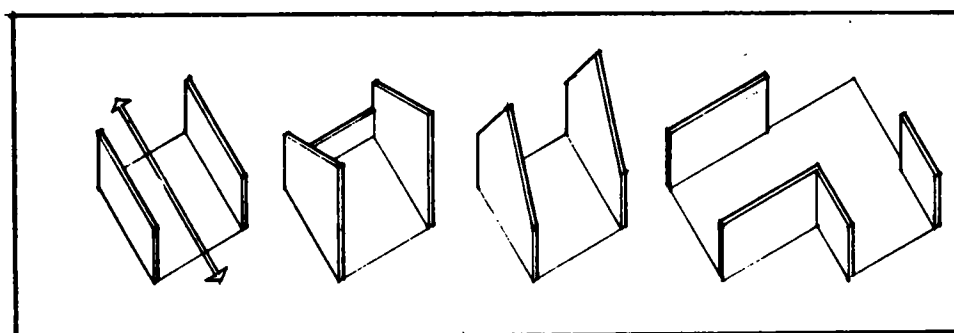
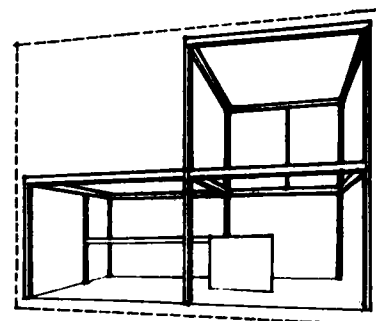
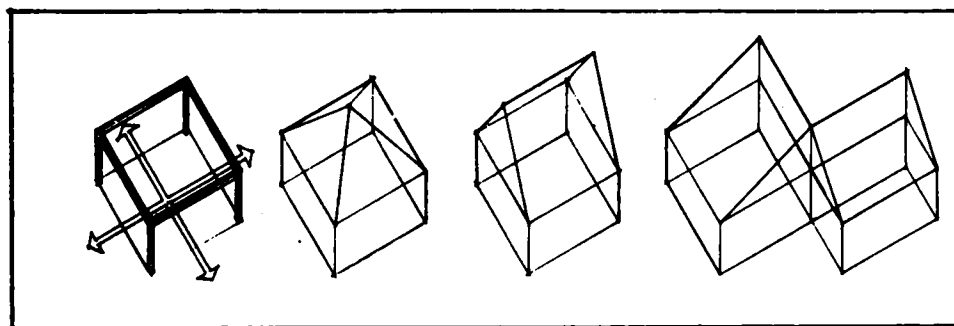


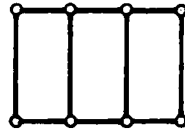
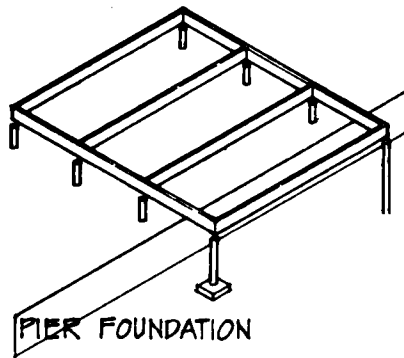
The structural system of a building supports the building's loads against the pull of gravity and enables it to resist the forces of wind pressure, shock or impact loads, vibrations, and earthquakes. In counteracting these internal and external forces which act on a building, a structural system will naturally impart a specific form to that building. In selecting a structural system one must therefore consider, in addition to building stability, function, and economy of means, the image and definition a specific structural system will tend to impart on the building's external form and internal spaces.



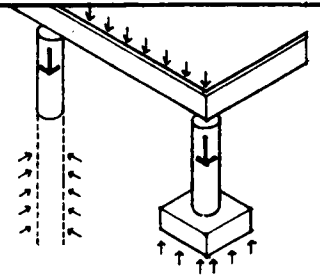
Above are a few of the many variations of form which can be achieved with both the skeletal and planar structural systems. As opposed to the skeleton frame which is characterized by its potential for openness, the bearing plane system tends to be heavier in image and more directional in form.

Combining horizontal slabs with a column grid we define horizontal layers of space which free up the use of wall elements and create the potential fusion of interior and exterior space.

● POINT

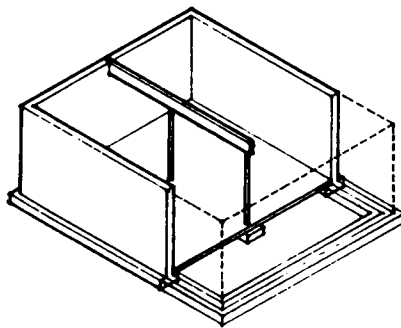


• column and beam

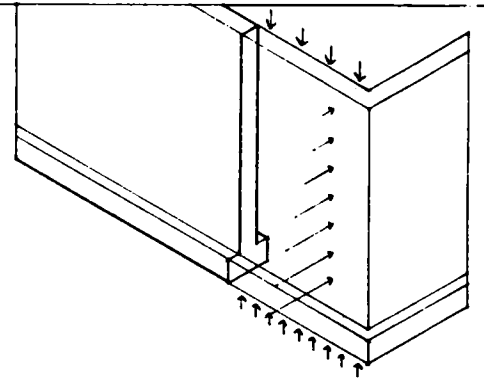


LINE

BASEMENT WALL FOUNDATION

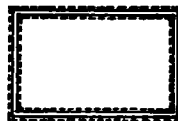
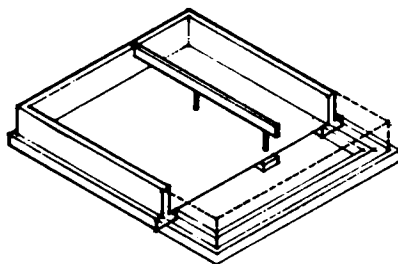


• bearing wall

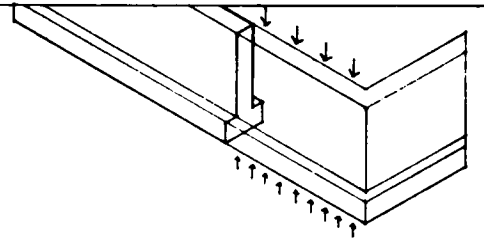


LINE

PERIMETER WALL FOUNDATION

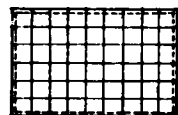
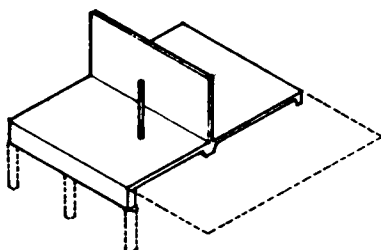


• bearing wall

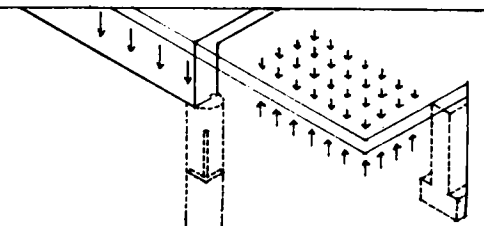


PLANE

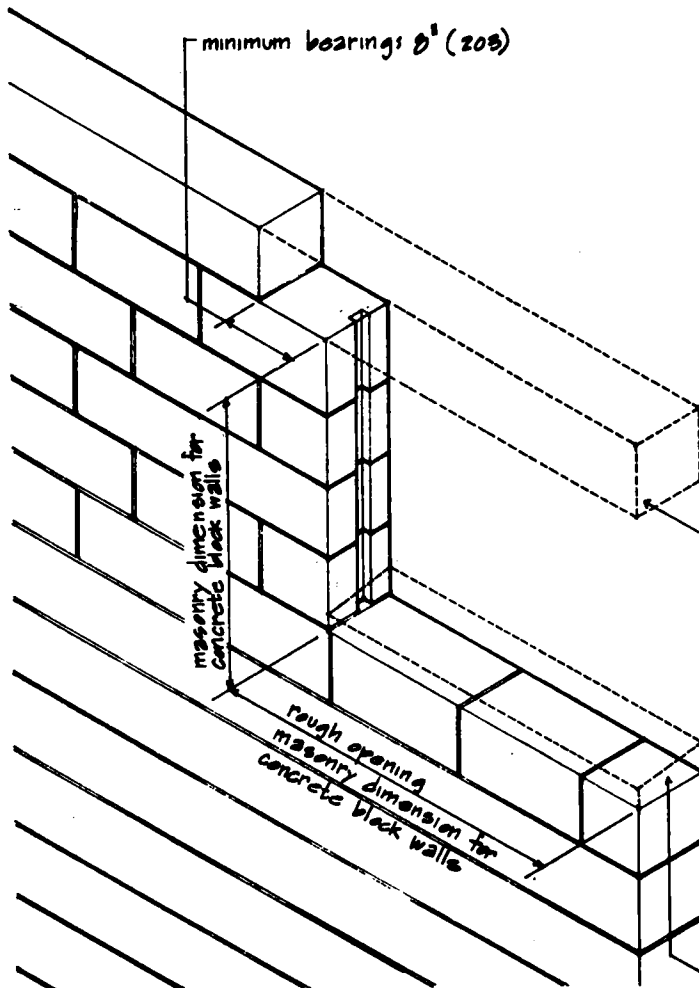
GROUND SLAB FOUNDATIONS



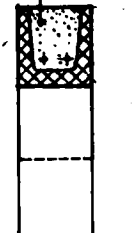
• horizontal slab



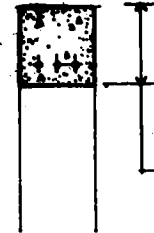
OPENINGS IN FOUNDATION WALLS



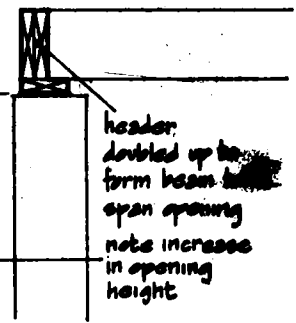
concrete fill with steel reinforcement



concrete lintel block
see 5.24



precast or cast-in-place concrete



wood joist floor system
see 4.4

LINTEL OPTIONS



concrete sill block



precast or cast-in-place concrete

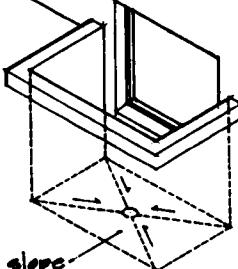


integral with window unit

SILL OPTIONS

- * verify rough openings required for doors and windows with manufacturer
- * see 5.24 for more information on concrete block wall openings

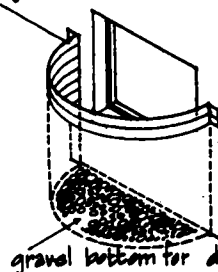
① cast-in-place concrete or concrete block



slope concrete slab to drain

② corrugated steel section

grade



gravel bottom for drainage

BASEMENT WINDOW AREAWAYS