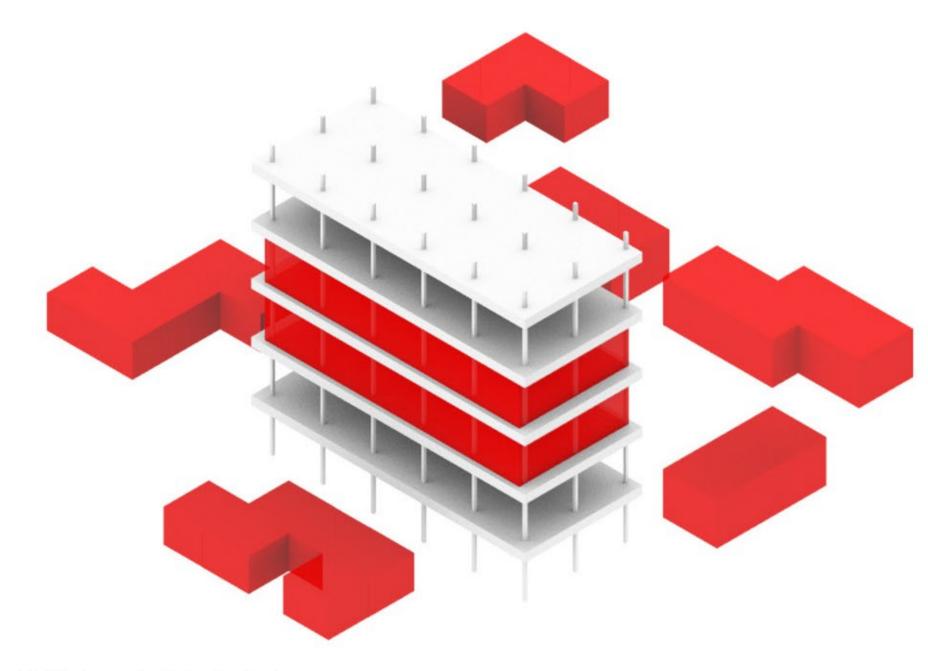




Seminar Presentation - Relevance of Support and Infill



Support and infill theory by John Habraken.

Some of the main principles of this theory are:

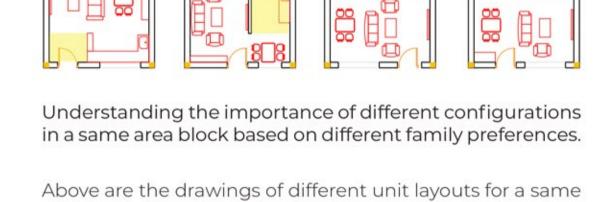
water, and gas, needed to operate the equipment.

- a. John Habraken sees the housing as a process. The issue is not just to provide a roof over people's heads but to create conditions that will, eventually, give everybody a decent house.
- b. Change over time is important. The recognition that things change over time and must improve over time should be introduced in our thinking of housing. c. Recognising that every user has different values and needs. It is impossible to find solution that fits everybody. A

house being a personal thing, must adapt to the user. People want to share a community and type of dwelling, but within that they want to identify themselves as different from their neighbours.

down, independently of the others.' Habraken. It consists of structure (columns, slabs), services (piping, cabling) and circulation (stairs, passages). Infill comprises of partitioning walls, kitchen and bathroom equipment and all the conduits for electricity, heating,

'A support structure is a construction which allows the provision of dwellings which can be built, altered, and taken

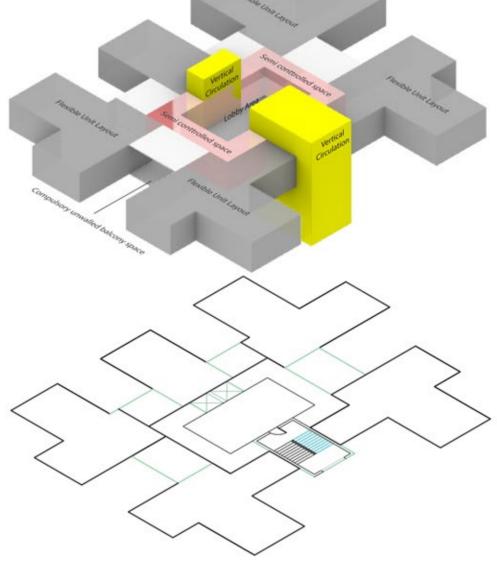


area block. It can be noticed that: a. The size of a bedroom due to a double bed and wardrobe remains more or less the same. b. Relationship between the living room, dining area and the kitchen can offer multiple options that gives a whole different usage of spaces/activities and spatial quality c. The secondary spaces such as the hallway, study

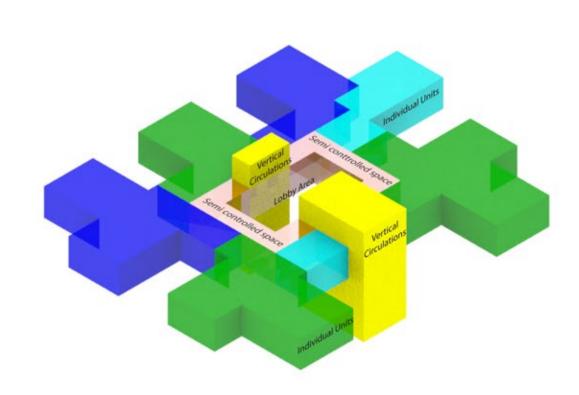
space, balconies can be added or resized according to the

Also in keeping up with the uncertainty of the future there might be some unconventional relationship between spaces that the user might want to have that meets his needs. The need might arise for non-labelled spaces that serve some purposes that architect wouldn't have designed

needs of different people.

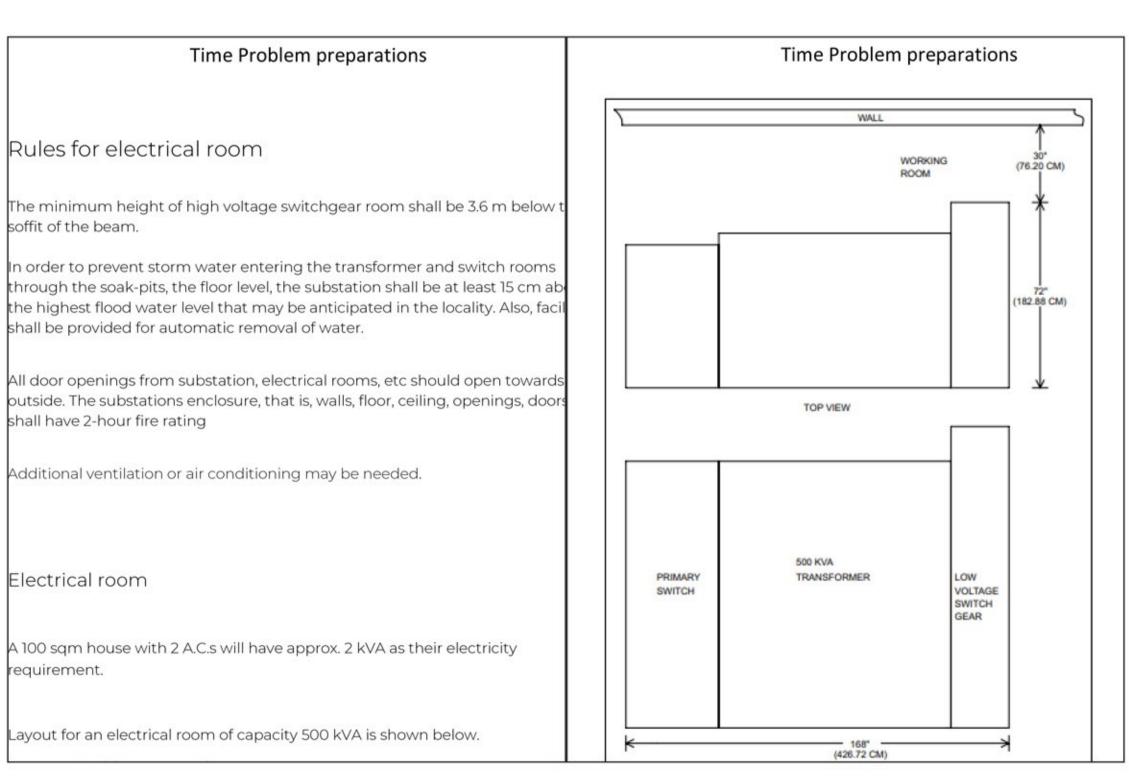


Defining control over spaces and setting up guidelines

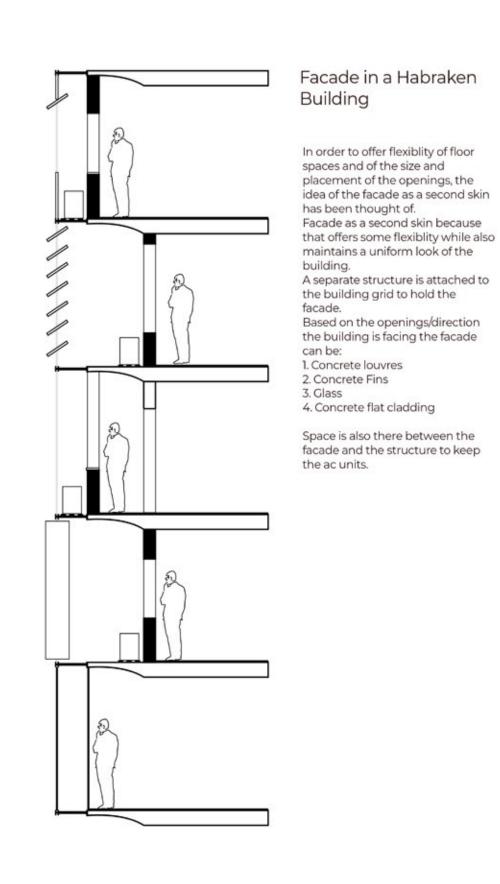


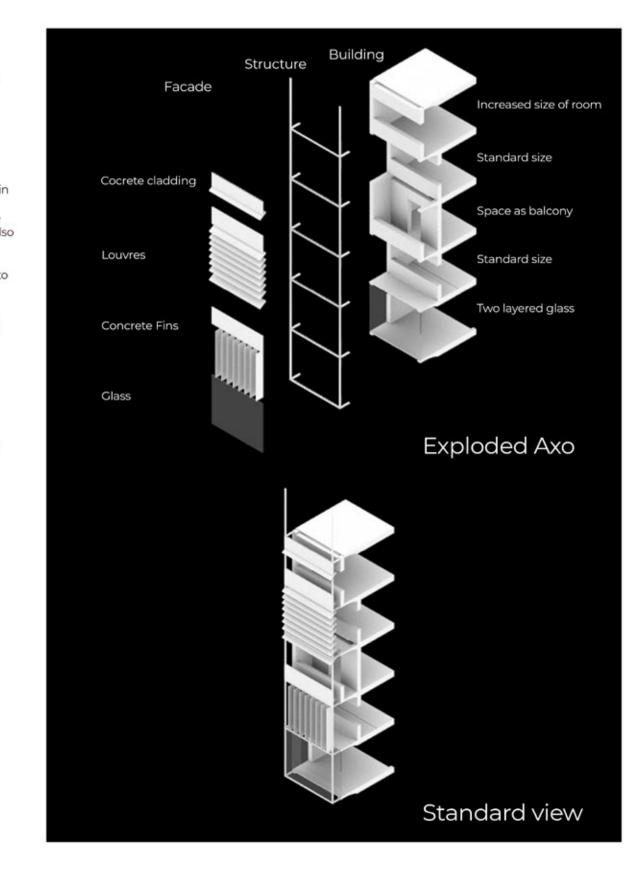
- The spaces on a particular floor can be divided into 3 parts. 1. Completely flexible private space for unit layouts 2. Partially controlled private spaces to maintain certain standards
- 3. Fully controlled community spaces The flexible unit spaces can be divided further into
- more units or many units can be merged to form one unit.

Time problem preparations



Redesigning the Facade





-Blank-

Blank Units in which the Owner himself constructs his home

Structure 8*8 meter 2 way concrete slab structure to have maximum apartments. **Punctured Beams** Beams punctured at regular

flexiblity within the space. Also enables cutting of slab for duplex

intervals to provide for passage of electrical/plumbing and AC Ducts Electrical points

Instead of eletrical lines going

through the walls the lines run

across the slab.

600 mm ledge all around the perimeter of the unit at 2.1 m

- height from the slab II. Acts as lintel to windows of any width to come on the facade. 2. Acts as a weather protection to
- the windows. 3. Provides a ledge to put outdoor equipments such as AC
- units/Satellite Disks. 4. Works as a surface for the workers to stand on while plastering the outside wall even after the completion of the

Rails across the ledge

building.

To aide in construction activities as a device to tie nets on to prevent debris from falling on the ground.

the beams.

Plumbing P trap W.C. are used and should be aligned with the outer wall. Nani-traps go through the slab and through one of the holes in

Constructing the Supports

Details and characteristics of the structure to be sold by the developer.

Suggested Infill techniques Walls

Gypsum boards can be used so that the partition walls are Iplaced on the tiles directly to avoid having to cut tiles and have no need to refit tiles while moving the partition wall.

False Ceiling

rooms.

Modular false ceiling grid should be used to aide in maintenance of the services as well as become convienient while resizing of the

Ventilation Each of the 6 units on a floor has atleast 2 full sides of 8 meter and one half side open to allow for ventilation

Access to the Units Stretcher Lift Each unit has 4 meter of corridor A permanent stretcher lift is space such that their entrance or provided to become a material lift entrances can be placed anywhere to fascilate construction activities on that corridor. after the completion.

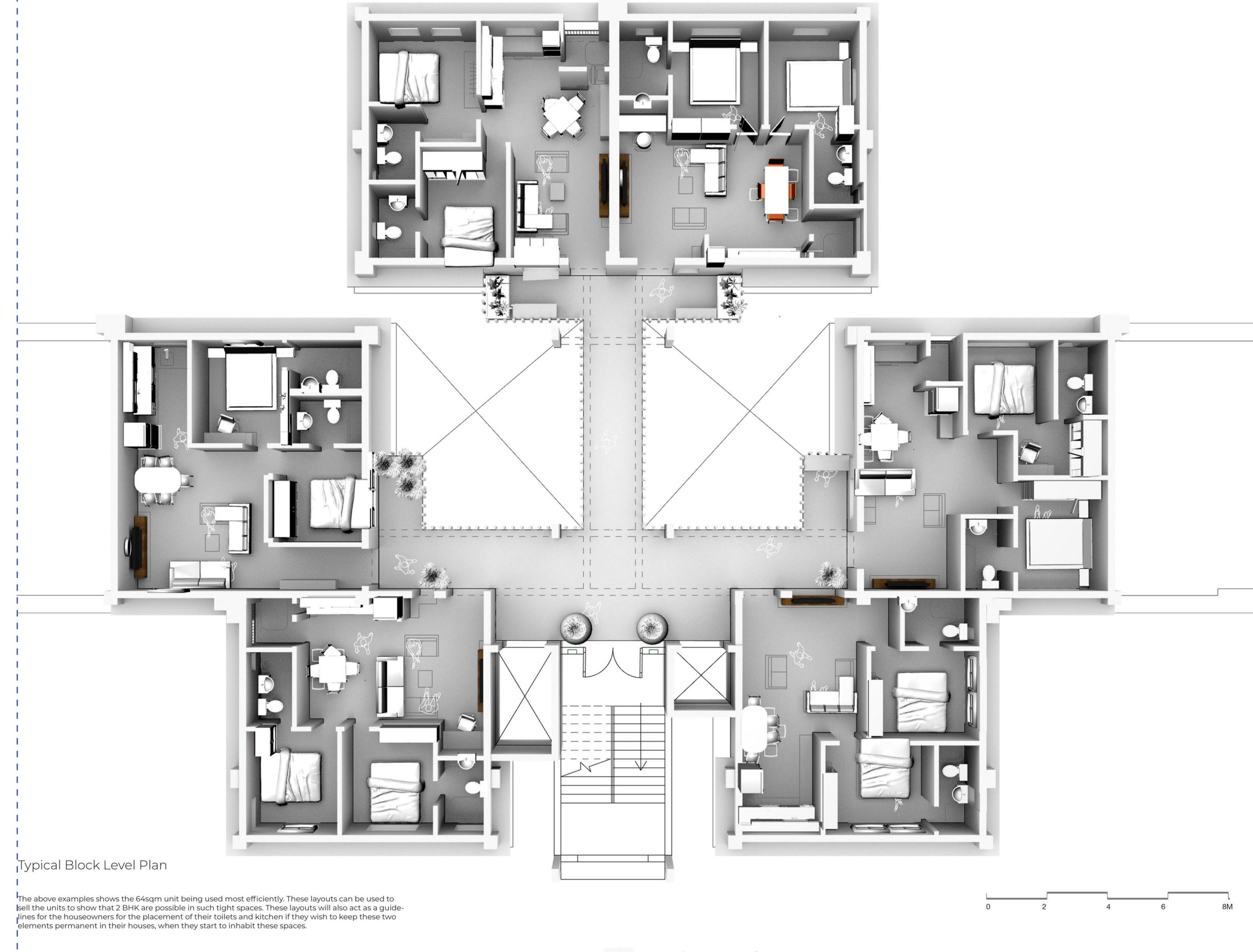
into a 128 sqm unit.

Common Wall between Blocks Common Wall between Units Different blocks share walls that 2-2 units on a floor shares a common wall that can be taken down to convert a 64 sqm unit

can be broken down to convert into a unit into a larger unit.

Ownership Variations

Plumbing Duct Location At least 3 plumbing ducts covering an area of 64 sqm provides ample opportunity to place kitchen and toilets anywhere on the unit

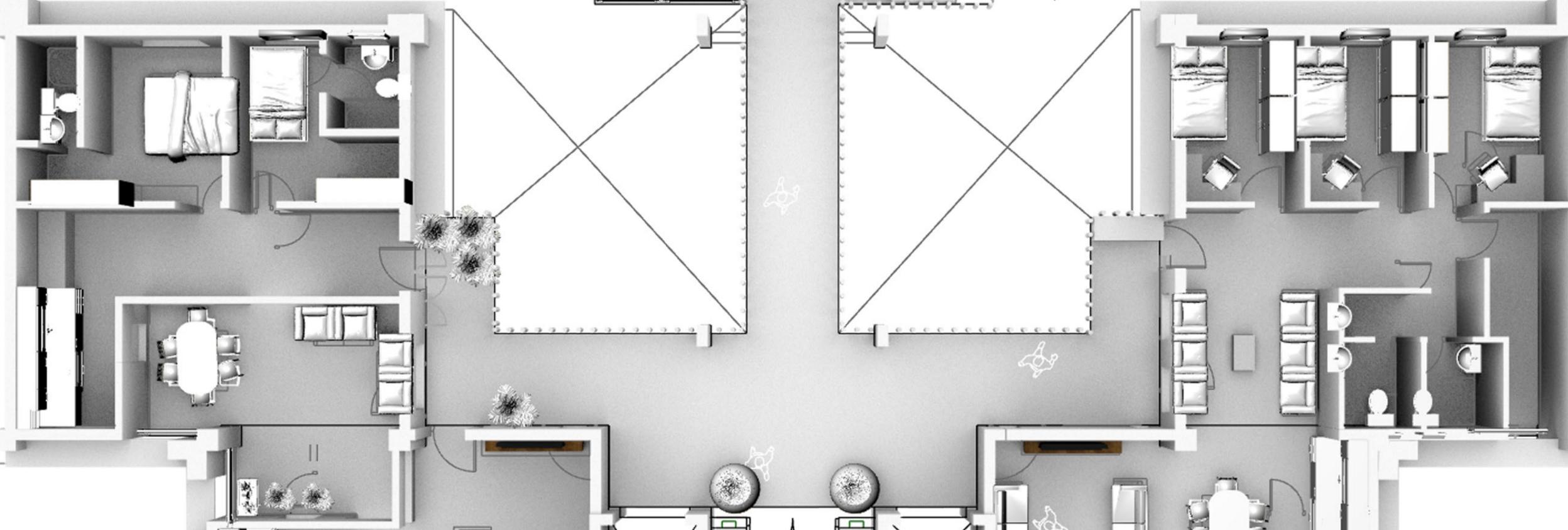


Single couple

A single couple may only build a room and I toilet and I kitchen and have the rest of the semiopen space as an outdoor gathering space or storage space. Dining table, swings, seating area can be put in these semi open space.

Duplex Apartment In order to cater to a family structure of grandparents living with the family,

two units on subsequent floors can be bought and be converted into a duplex apartment. 4m *4m cavities in the slab are possible due to the presence of a two sided slab

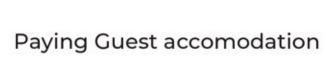


Joint family

In these 2 combined units, each micro family of a joint family occupies 1 unit and has different kitchens and living rooms and entrances. Both of them share a common open balcony and dining space that can be locked from either sides to provide privacy as

Typical Block Level Plan Scale 1:50

The above examples show alternative livings in the apartments. These studies are to demonstrate that not every house has to be a 2BHK living with attached toilets. The variations shown above would result from different occupations of the homeowner, different interests, different family structure or maybe use of the home space for work purposes.



In these 2 combined units, the space has been converted into a paying guest or hostel type. 6 individual rooms are provided along with common toilets and living

Linear slim rooms are possible because of the flexiblity to have variable window/ facade responces. Common bigger washrooms can also be accomodated due to the plumbing sys-