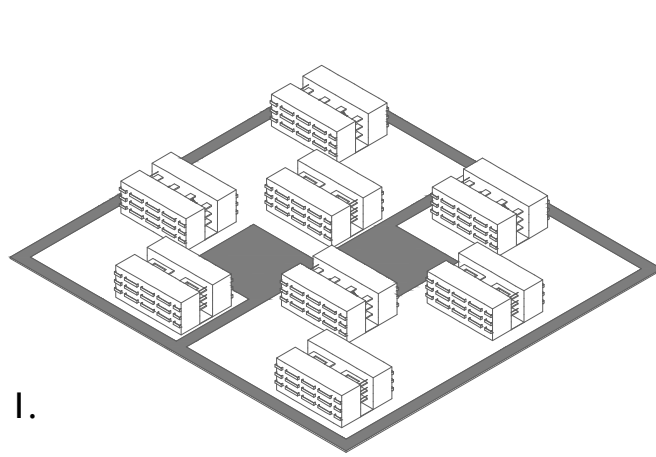


REHABILITATION IN SITE

DHANAS REHABILITATION COLONY, CHANDIGARH

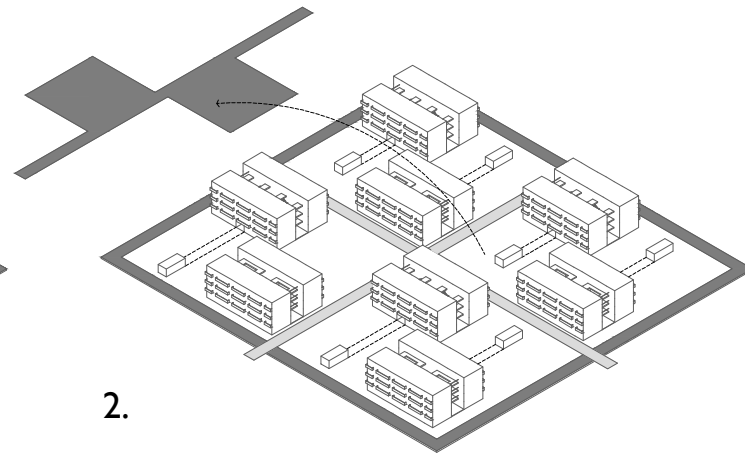
Juan Camilo Arboleda, Nadia El Hakim, Dominik Saitl



1.

EXISTING URBAN BLOCK

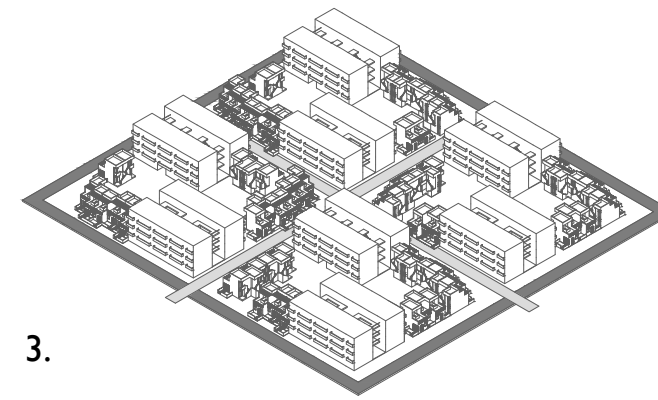
existing urban blocks consisting of 8 residential blocks is penetrated by asphalt vehicular roads and oversized parking lots, hierarchy in public space is missing



2.

STREET HIERARCHY

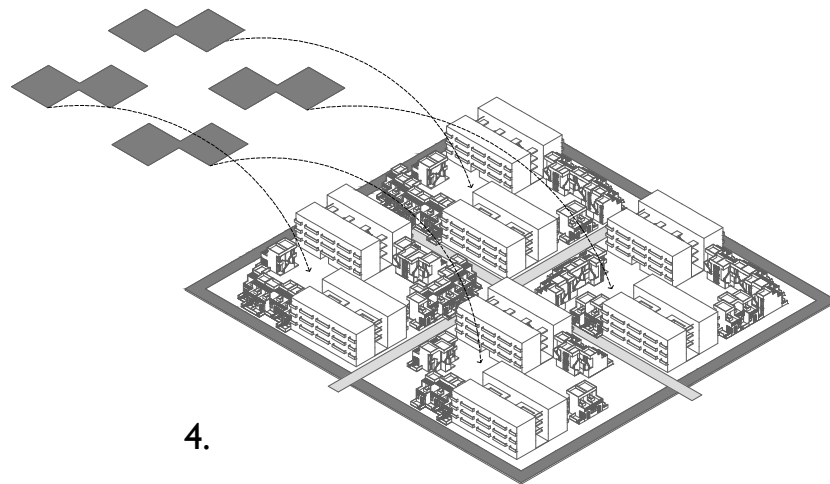
parking lots inside the urban block are converted to a plot area, interior vehicular streets are replaced by pedestrian streets and vehicular streets are kept around the block



3.

NEW HOUSING UNITS

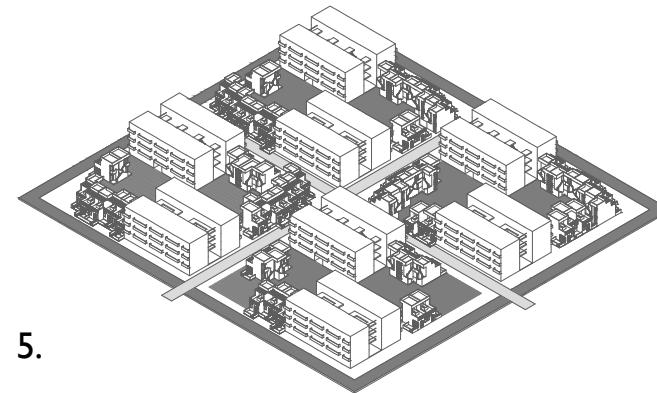
in the space between existing residential blocks are created new plots of an area 31 m² and new housing units are built on these plots



4.

COURTYARDS

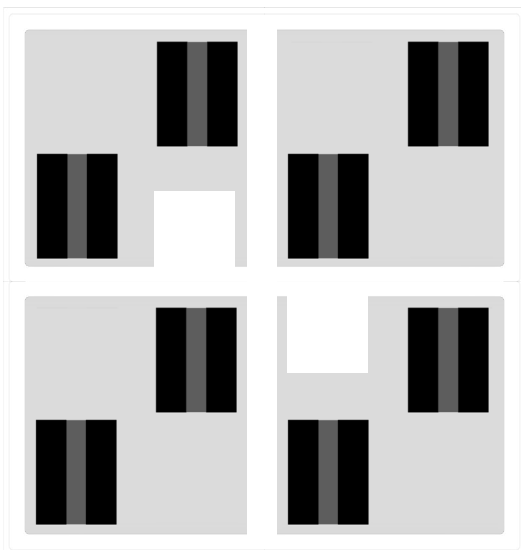
courtyards with different function and different in-fill are introduced to the urban block creating collective spaces or public areas shaded with trees more or less



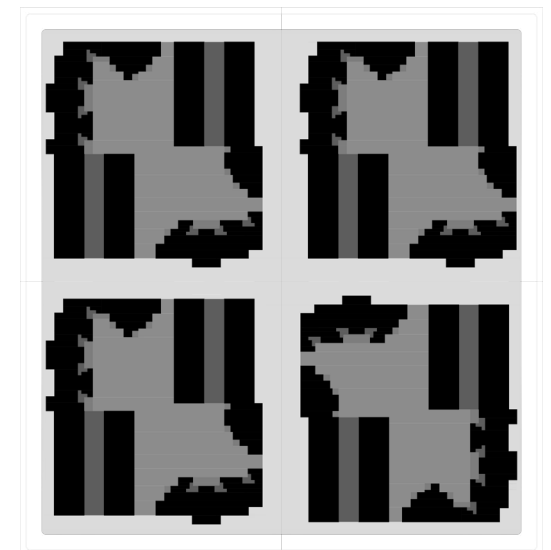
5.

NEW URBAN BLOCK

new housing units together with courtyards separate the area into public (pedestrian and vehicular roads) and private (courtyards) area creating a hierarchy in the public space



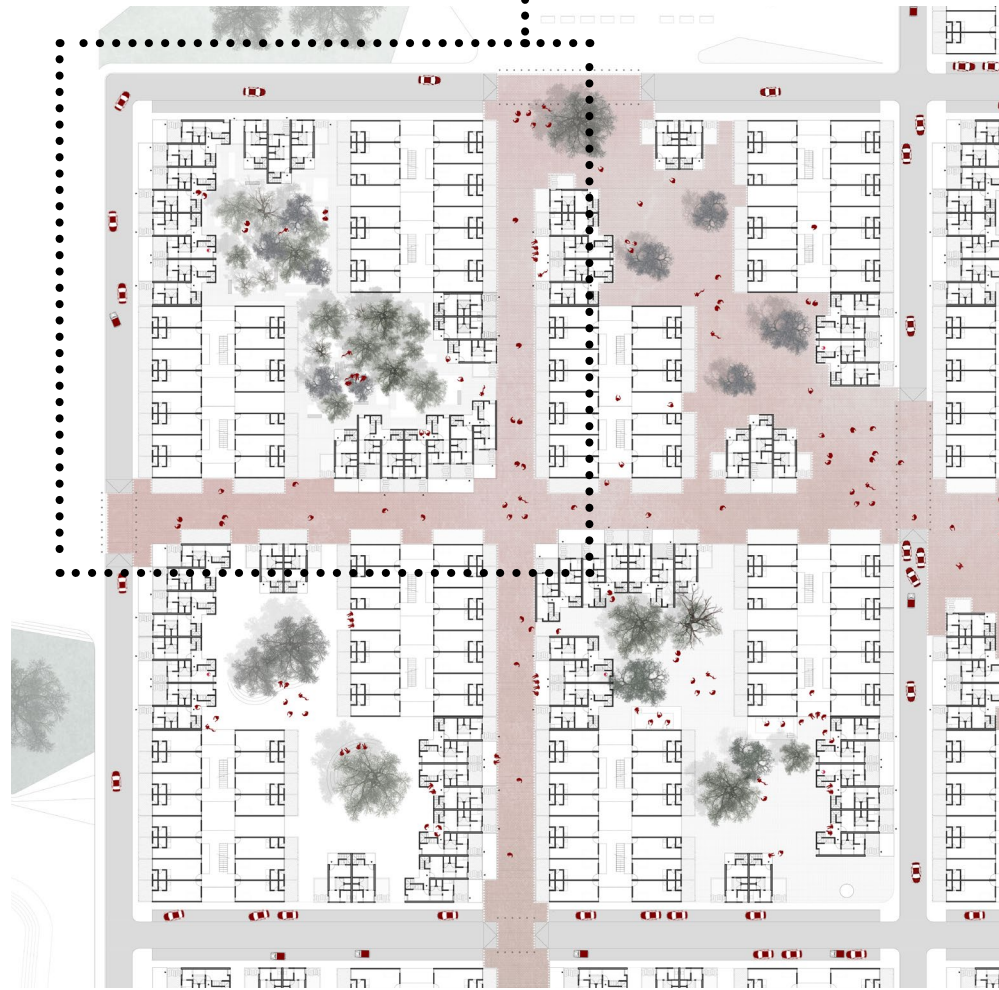
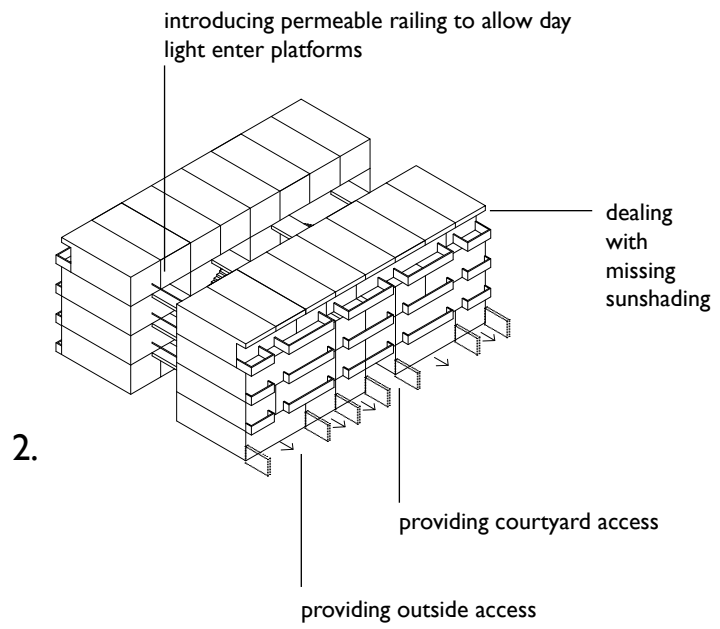
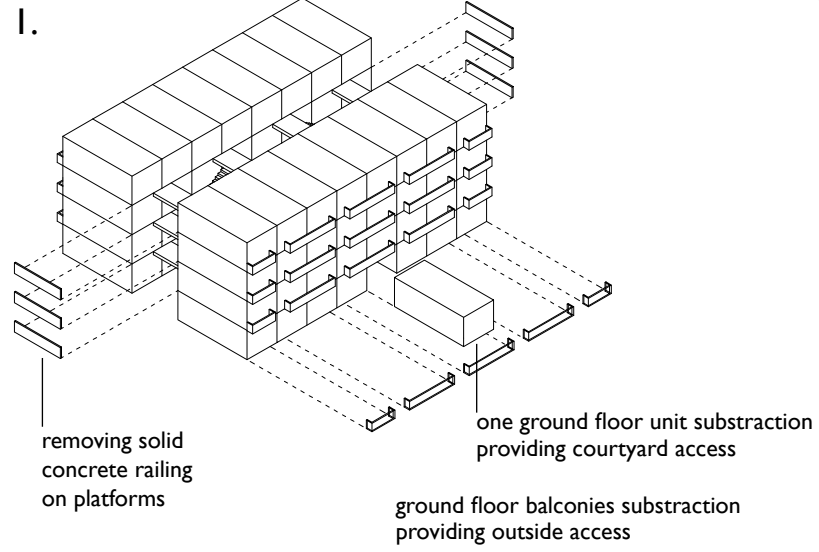
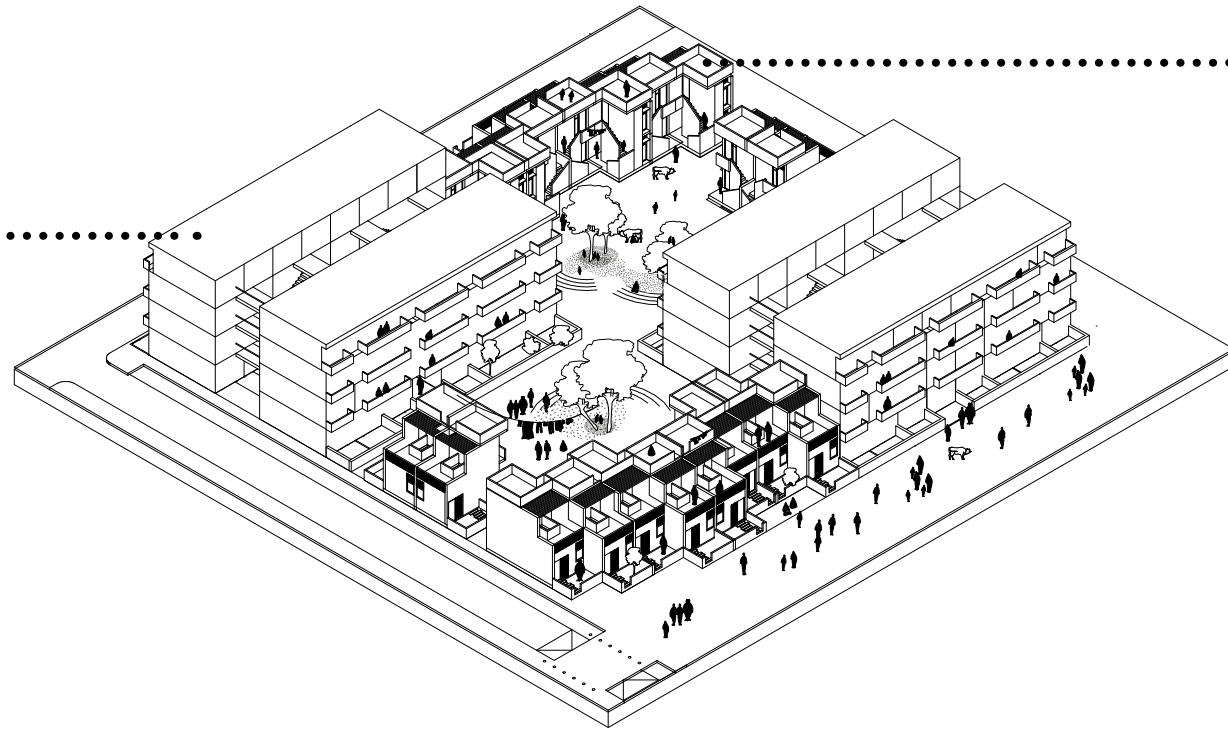
EXISTING SPATIAL HIERARCHY WITHIN AN URBAN BLOCK



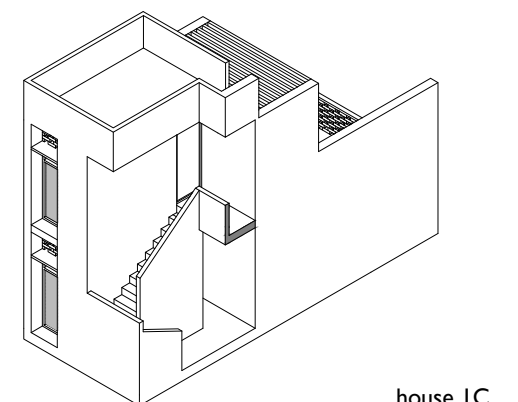
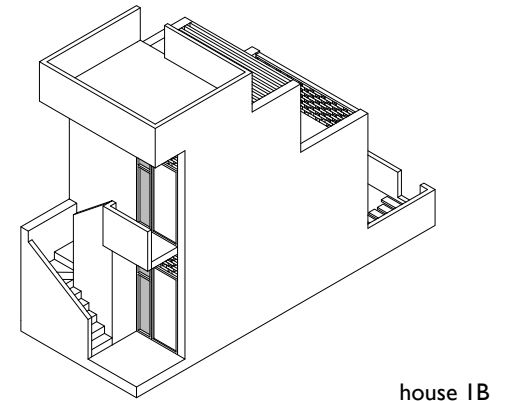
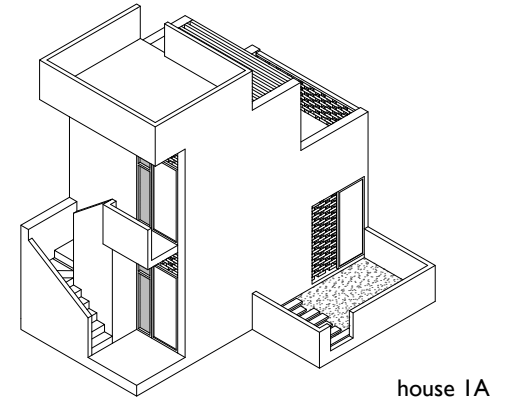
NEW SPATIAL HIERARCHY WITHIN AN URBAN BLOCK

URBAN BLOCK

CLUSTER



URBAN BLOCK

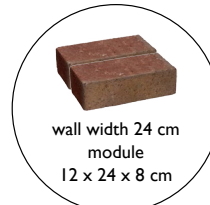


3.

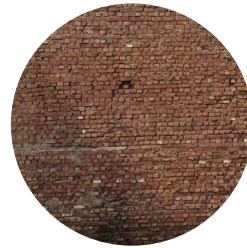
ADDING THE NEW HOUSING UNIT

ADAPTING THE EXISTING DHANAS BLOCK

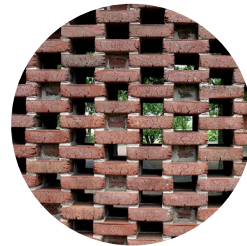
MATERIALITY



Chandigarh brick as the basic element for the load bearing structure



brick wall



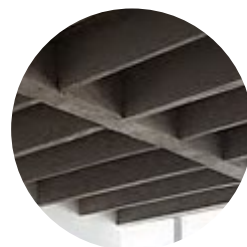
penetrated brick work for ventilation through the house and as glass substitution



colour painted brick wall as possibility



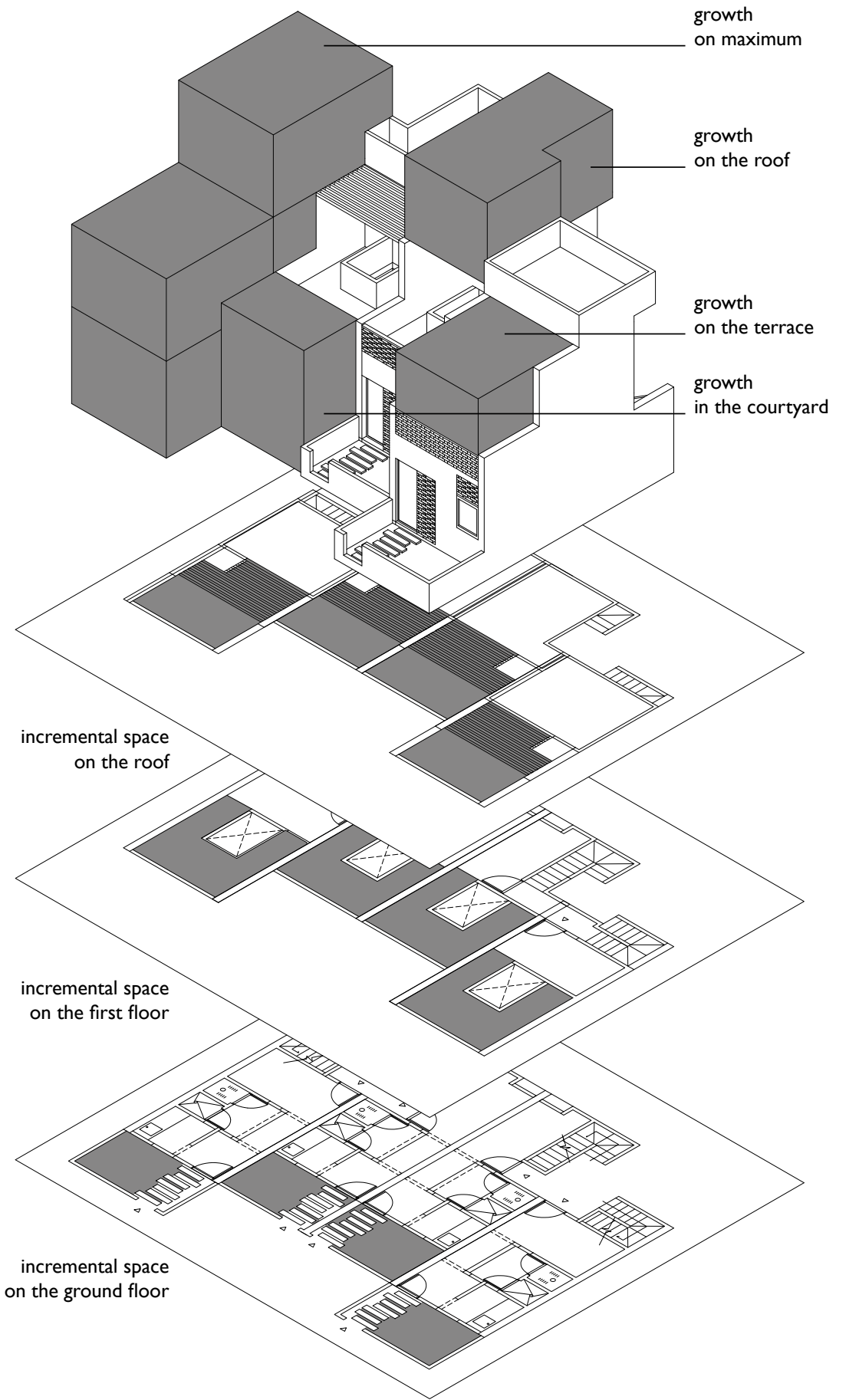
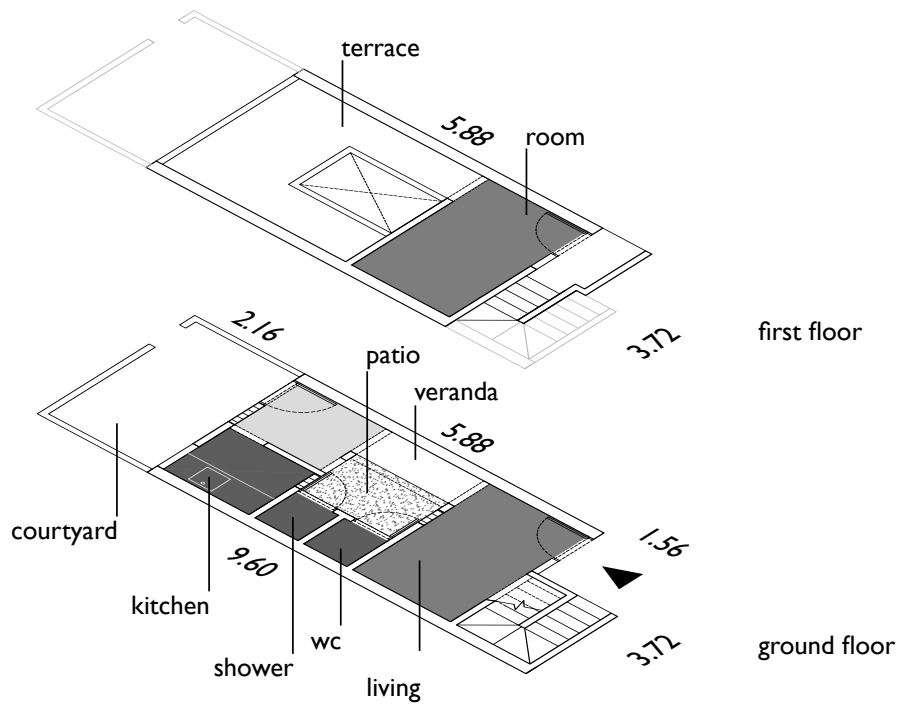
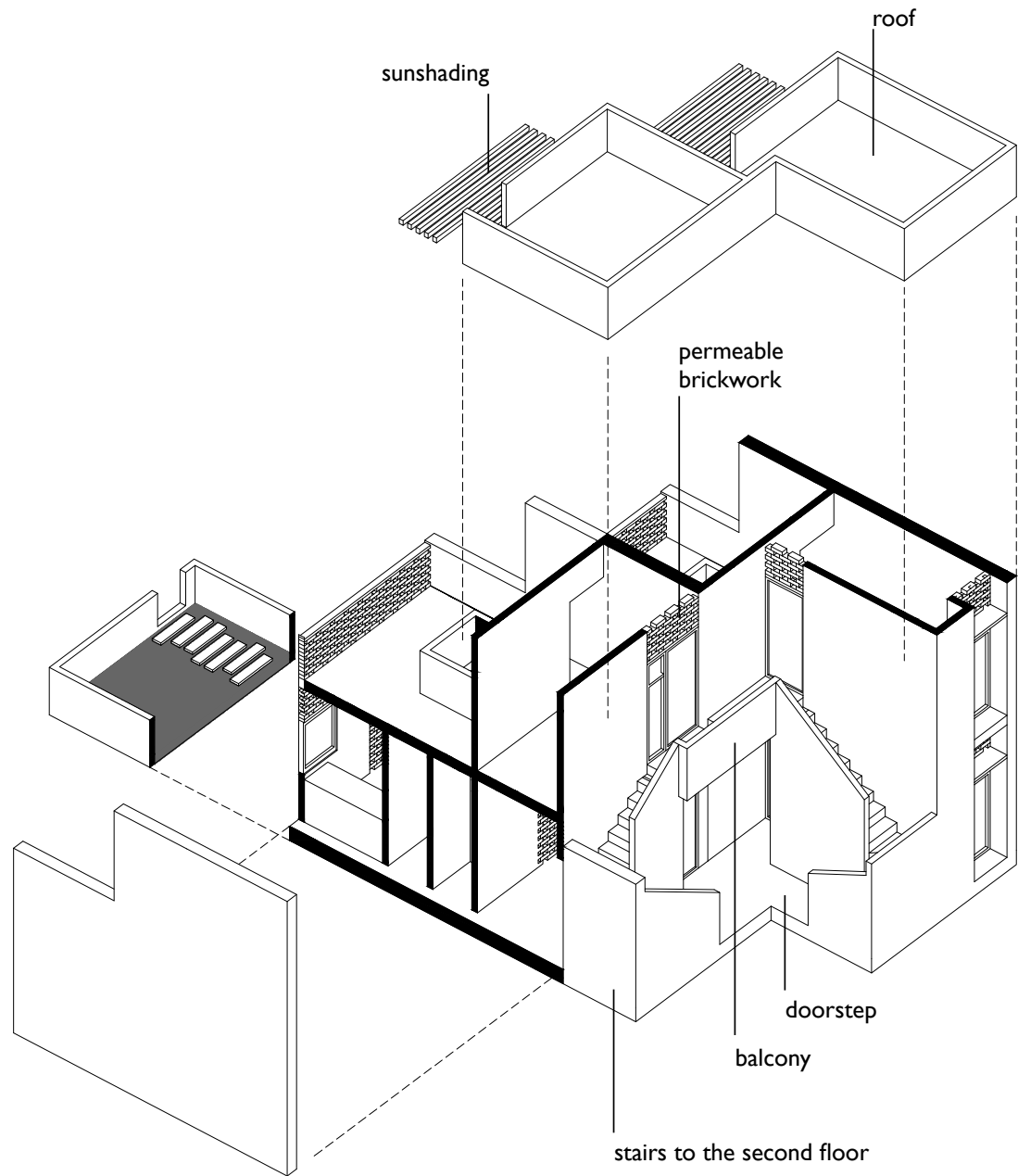
wooden door and window shutters instead of expensive glass



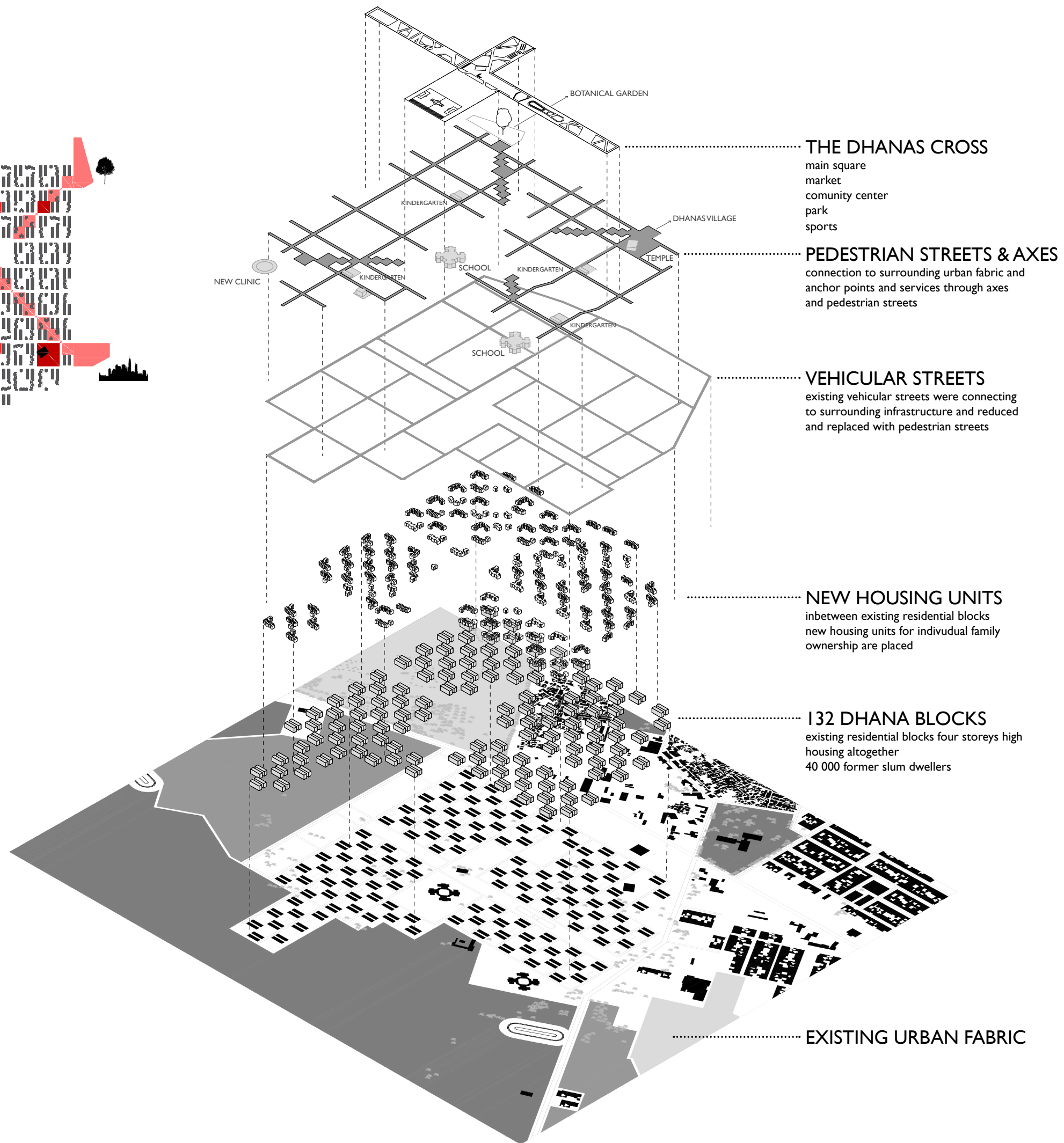
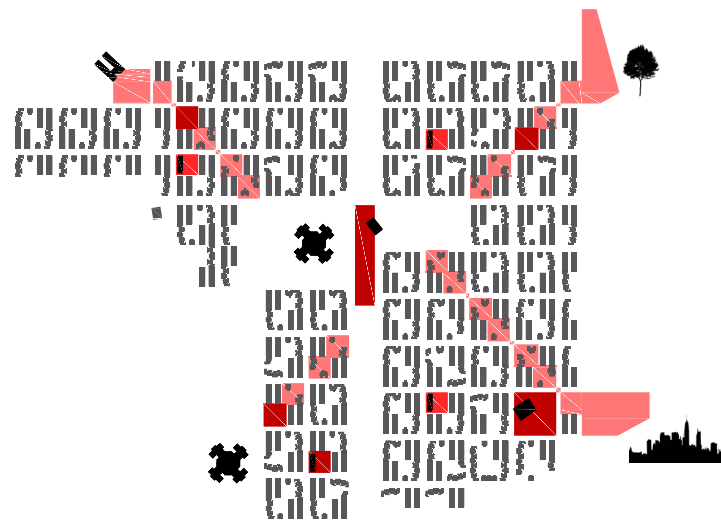
concrete reinforced ceiling

NEW HOUSING UNIT

HOUSE IB



INCREMENTALITY



THE DHANAS CROSS

main square
market
community center
park
sports

PEDESTRIAN STREETS & AXES

connection to surrounding urban fabric and anchor points and services through axes and pedestrian streets

VEHICULAR STREETS

existing vehicular streets were connecting to surrounding infrastructure and reduced and replaced with pedestrian streets

NEW HOUSING UNITS

inbetween existing residential blocks new housing units for individual family ownership are placed

132 DHANA BLOCKS

existing residential blocks four storeys high housing altogether 40 000 former slum dwellers

EXISTING URBAN FABRIC

URBAN PLAN

