

# AMARAVATI DESIGN CHALLENGE 2019



## SMALL SCALE RESIDENTIAL DEVELOPMENT SCENARIOS



AMARAVATI THE NEW CAPITAL CITY OF ANDHRA PRADESH IS THE MOST ANTICIPATED ONGOING URBAN DEVELOPMENT IN THE WORLD. IT IS SETTING PRECEDENTS AND BENCHMARK FOR GREENFIELD CITY BUILDING. AMARAVATI, SINCE ITS INCEPTION HAS ADOPTED AN INCLUSIVE, PARTICIPATORY AND TRANSPARENT APPROACH TO PLANNING AND DESIGN THE CITY.

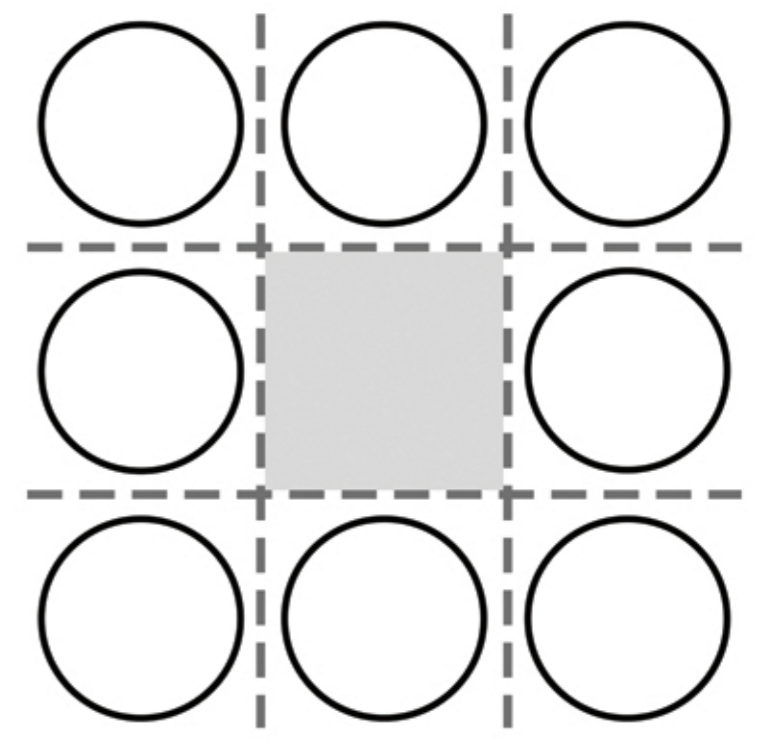
IN THIS MOVEMENT OF DESIGNING THE CITY, THE ARCHITECT IS PLAYING THE MAJOR ROLE OF THE DESIGNER OF THE MASTER PLAN. BUT SOMEWHERE IT IS FORESEEN THAT MOST OF THE SMALL SCALE RESIDENTIAL PROJECTS MAY HAPPEN BEYOND THE PURVIEW OF THE PROFESSIONAL ARCHITECT. FOR AVOIDING THIS PROBLEM AND GIVING THE BEST SOLUTION FOR THE EACH AND EVERY SMALL SCALE PLOTS, THE GOVERNMENT STARTED THE LAND POOLING SCHEME FOR CREATING A SMALL SCALE RESIDENTIAL SCENARIOS OF THE CITY FOLLOWING WHICH THE CITY MAY GROW WITH ITS BEST SOLUTIONS IN ITS EVERY END.

IN ALONG WITH THIS LAND-POOLING SCHEME, FOLLOWING ITS ALL ASPECTS OF CITY PLANNING AND CONSIDERATIONS WE ARE COMING UP TO A GENERAL SMALL SCALE RESIDENTIAL DEVELOPMENT SCENARIO SOLUTION, NAMED AS -

## “astaka”

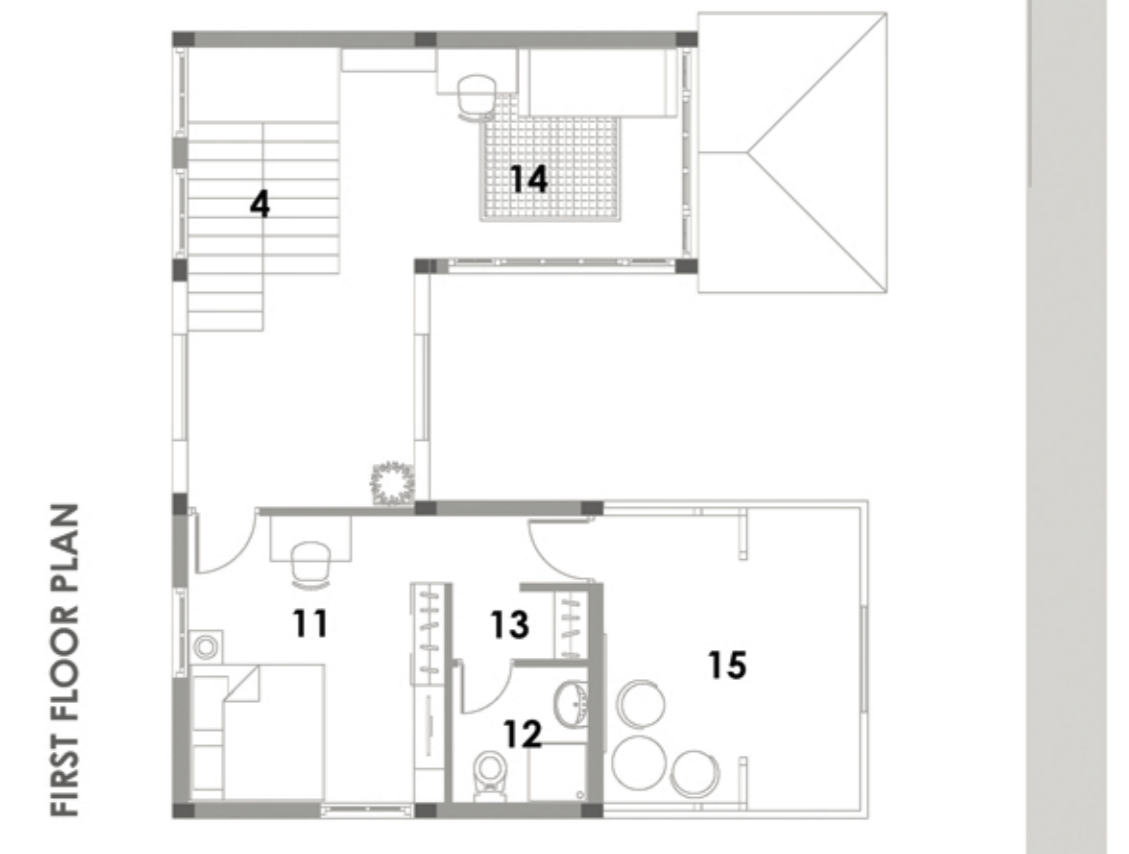
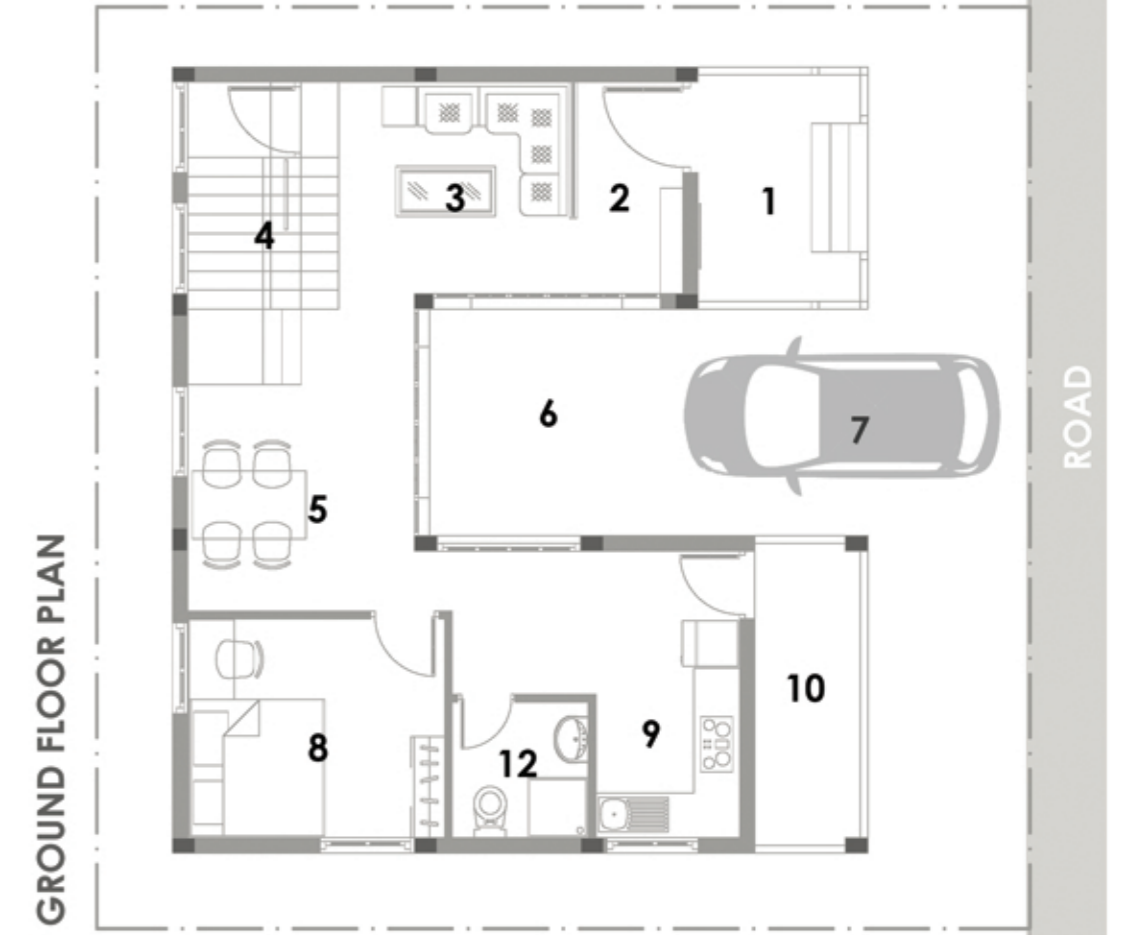
ASATAKA IS THE SYNONYM OF HOME IN SANSKRIT LANGUAGE, WHERE IT MEANS A HAPPY HEALTHY LIVING WITH ITS PEOPLE AND ITS SURROUNDINGS.

# “astaka”

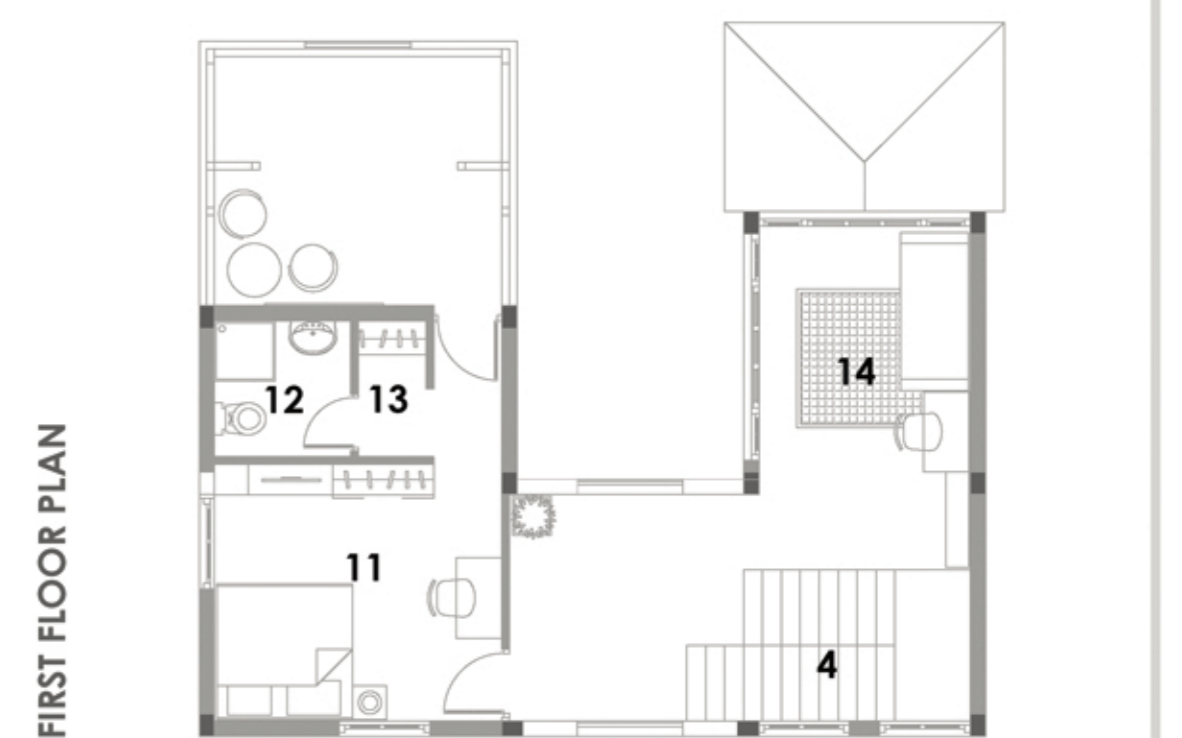
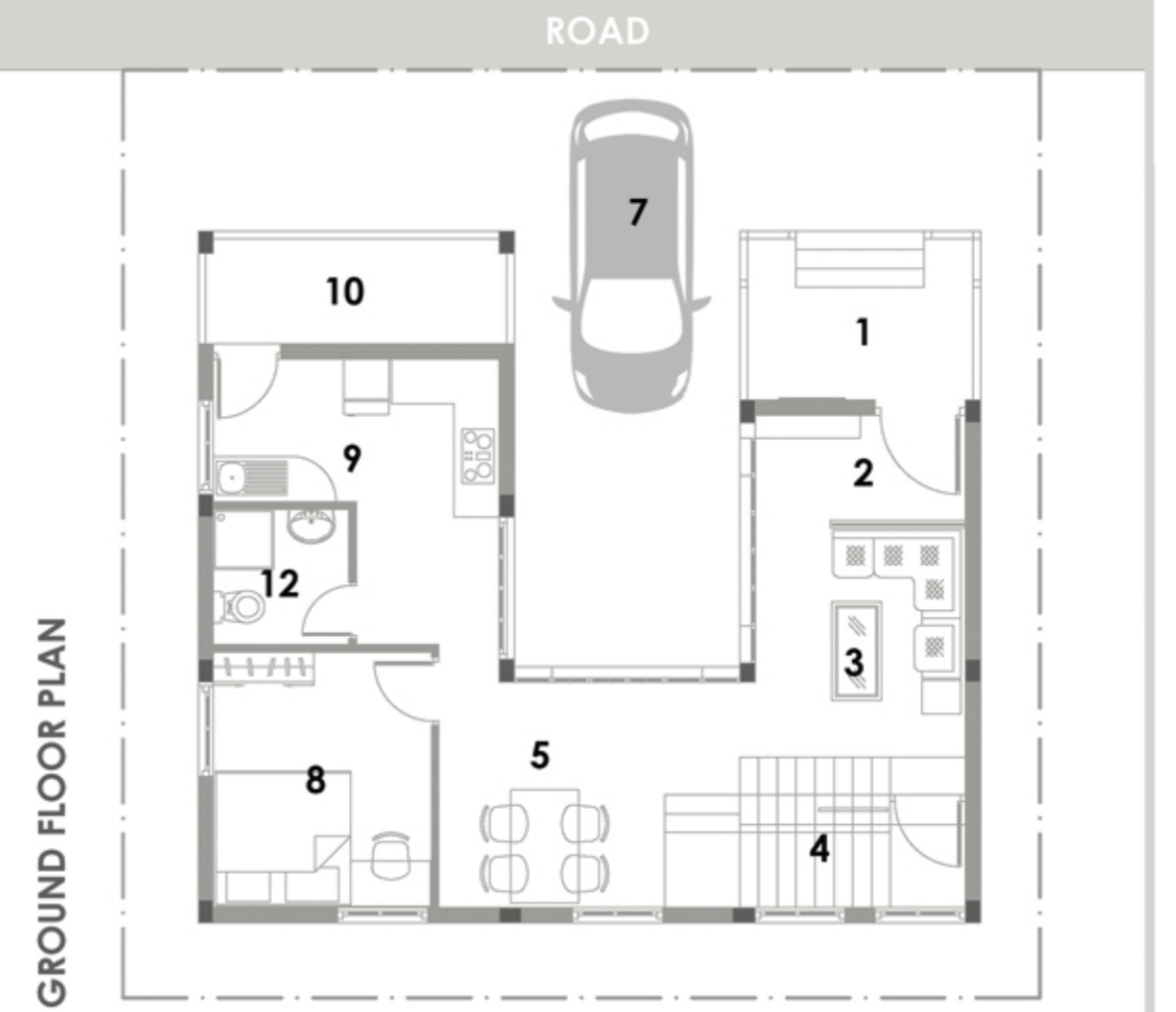


## DETAIL FLOOR PLANS

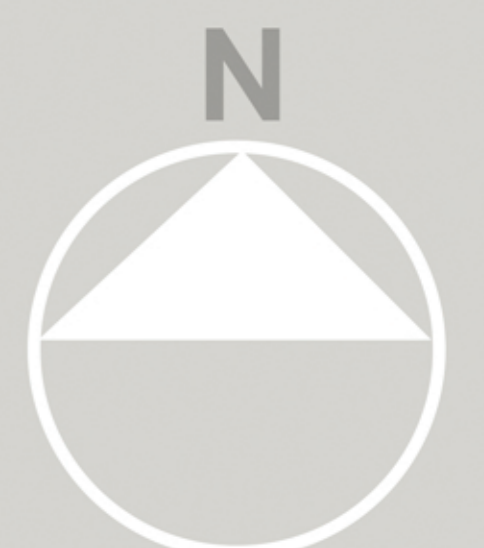
CASE I : EAST FACING PLOT



CASE II : NORTH FACING PLOT



- 1 ENTRANCE VERANDAH
- 2 FOYER
- 3 LIVING ROOM
- 4 STAIRCASE
- 5 DINING ROOM
- 6 COURTYARD
- 7 CAR PARKING
- 8 BED ROOM
- 9 KITCHEN
- 10 WASH AREA
- 11 MASTER BEDROOM
- 12 TOILET
- 13 CLOSET
- 14 WORKSPACE
- 15 BALCONY



SCALE - 1 : 100

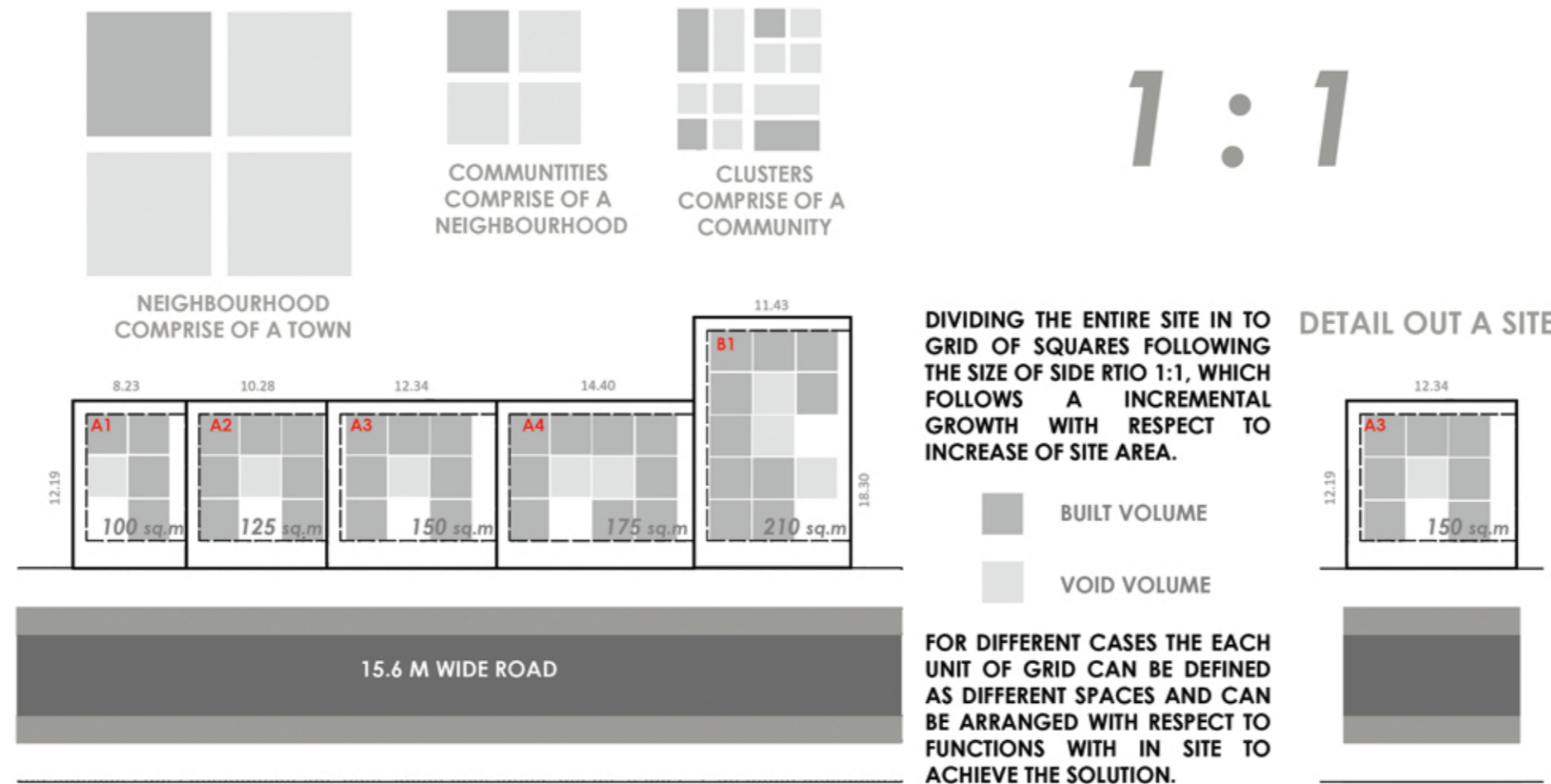
### KEY CONSIDERATIONS

- HAPPINESS AND WELL BEING
- PROMOTING THE HEALTH
- COMMUNITY BASED
- SUSTAINABLE ENVIRONMENT
- SENSE OF BELONGING
- CONTEXTUAL APPROACH
- NATURAL LANDSCAPE
- LOCAL CULTURE ART & CRAFTS
- ARCHITECTURAL CHARACTER
- SUSTAINABILITY AND GREEN BUILDING ASPECTS
- EFFECTIVE USE OF SMALL SCALE IDEAS
- RATING SYSTEMS
- VASTU CONSIDERATIONS

### CONCEPT DEVELOPEMENT

#### PLANNING CONCEPT

THE PLANNING CONCEPT OF THE CITY IS FOLLOWING A COMMON DIVISION RATIO OF SPACE IN A SQUIRE FORM. FOLLOWING THE SAME RATIO OF DIVISION TO DESIGN THE RESIDENTIAL UNITS, FOR SHOWING ITS BELONGINGNESS OF THE CITY.



#### CONTEXTUAL CONCEPT

FOLLOWING THE LOCAL CONTEXT OF THE SITE THE USE OF SPACES, BUILT FORM AND EXTERIOR & INTERIOR EXPRESSIONS CAN BE DEFINED FOR CREATING A SENSE OF ITS BELONGING.

- DESIGNING THE BUILTFORM WITH SOLID VOID BUILTMASS FOLLOWING THE LOCAL LANDSCAPE AS THE BUILDING CAN BE PART OF CONTEXT.
- DEFINING THE USE SPACES CONSIDERING THE LOCAL CULTURE ART & CRAFTS FOR BEARING THE CULTURE OF THE AREA.
- FOLLOWING THE VERNACULAR FORM ALONGWITH SUSTAINABLE SOLUTIONS, USING LOCALLY AVAILABLE MATERIALS WITH RESPECT TO CONTEXT.

#### SPATIAL DISTRIBUTION

FOR FIVE TYPOLOGY OF SITES THE DISTRIBUTION OF SPACE MUST BE UTILIZED WITH RESPECT TO THE SIZE OF SITE. ALSO FOR DIFFERENT TYPOLOGY THE TYPE OF USER CAN BE CHANGED AS ALL THE SOLUTIONS ARE FOLLOWING THE GRID PATTERN FOR WHICH THE SPACES CAN BE DISTRIBUTED WITH A INCREMENTAL GROWTH.

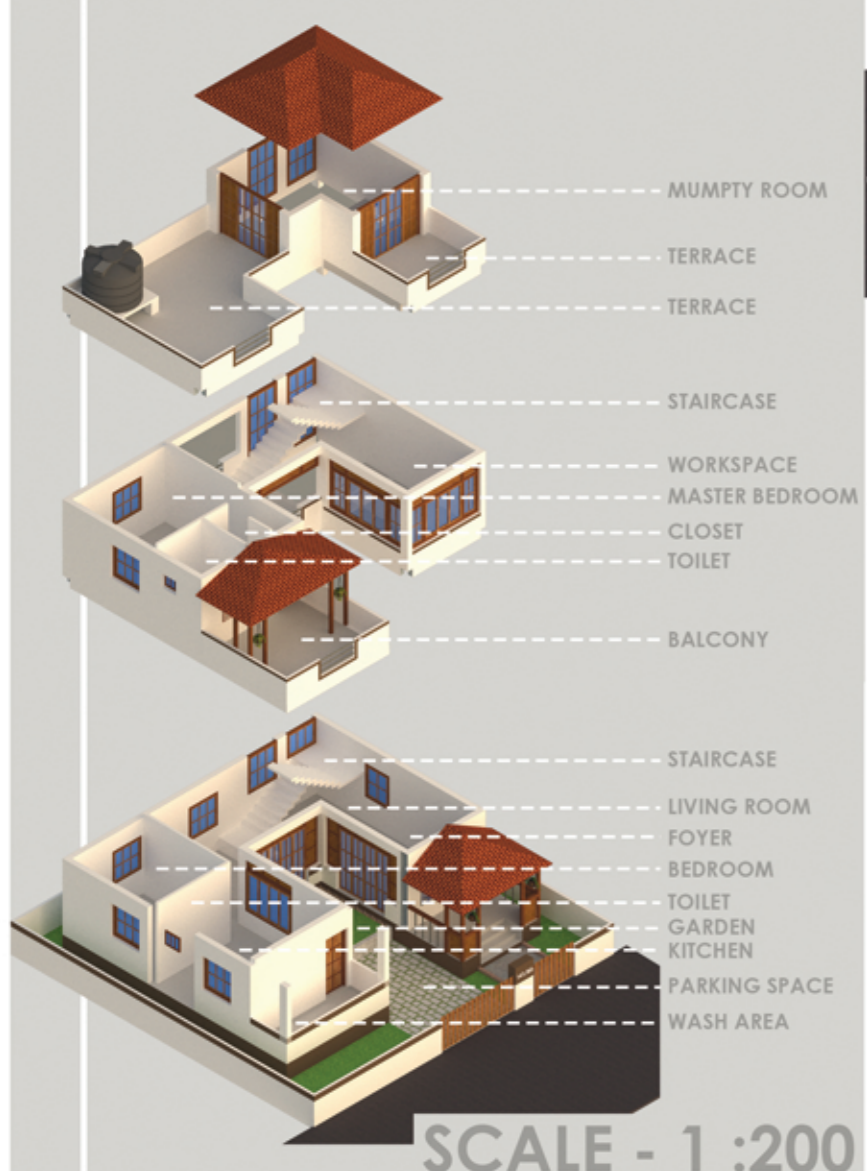
## VARIANTS

### SITE PLAN : A3 (150 sq.m)

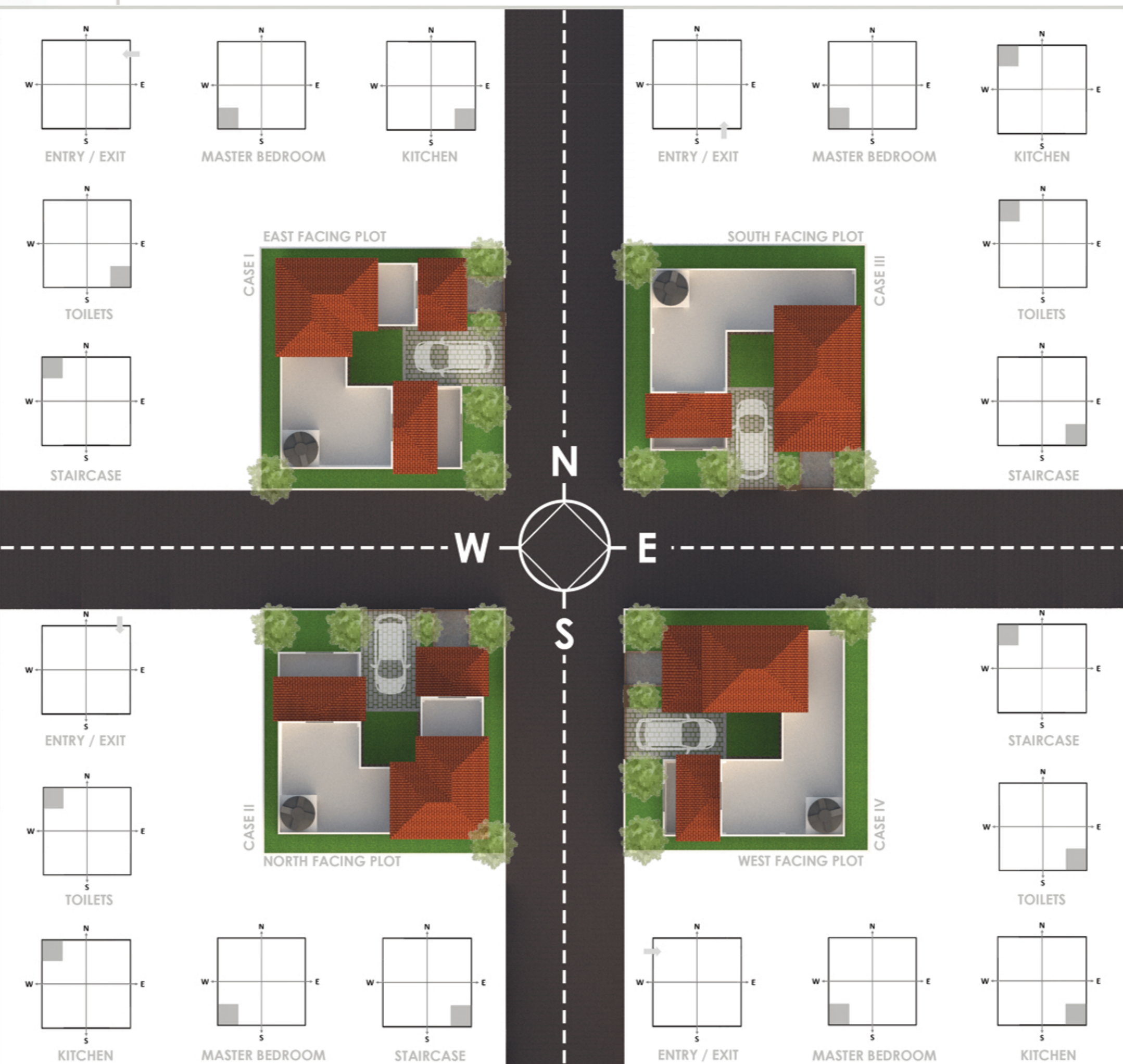
#### REQUIRED SPATIAL DISTRIBUTION

- BEDROOM
- TOILET
- KITCHEN
- DINING
- LIVING ROOM
- WORKING SPACE
- PARKING
- GARDEN

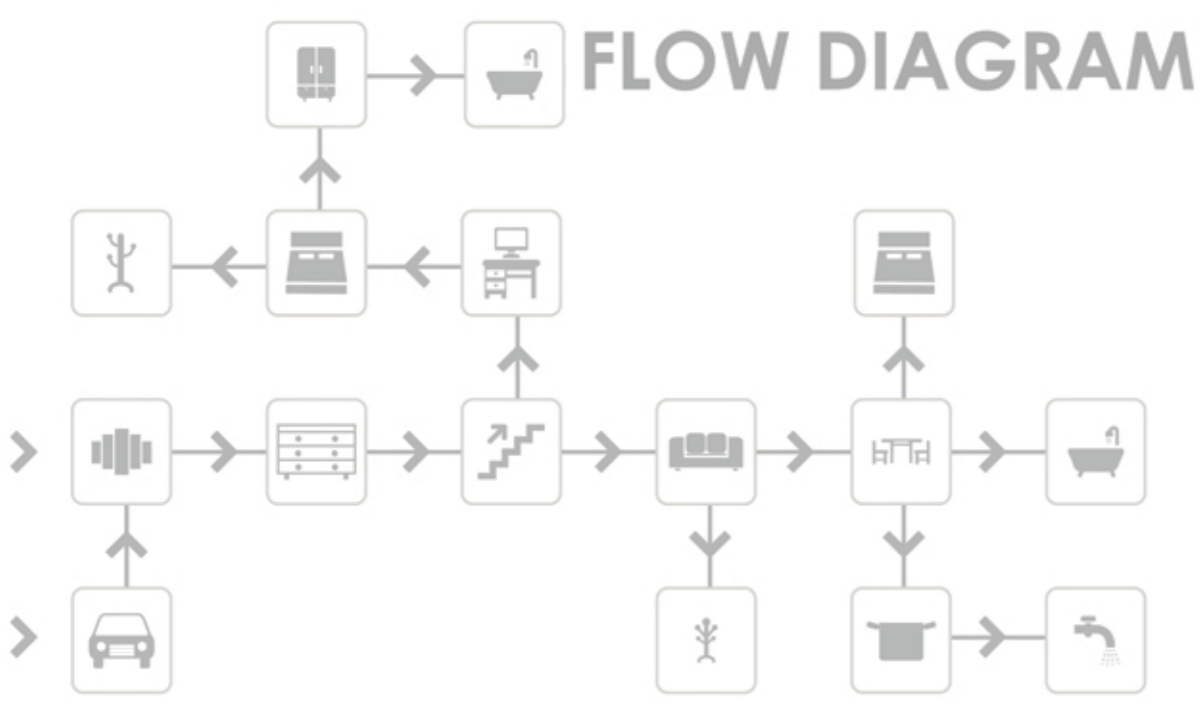
#### ISOMETRIC ZONING



SCALE - 1 : 200

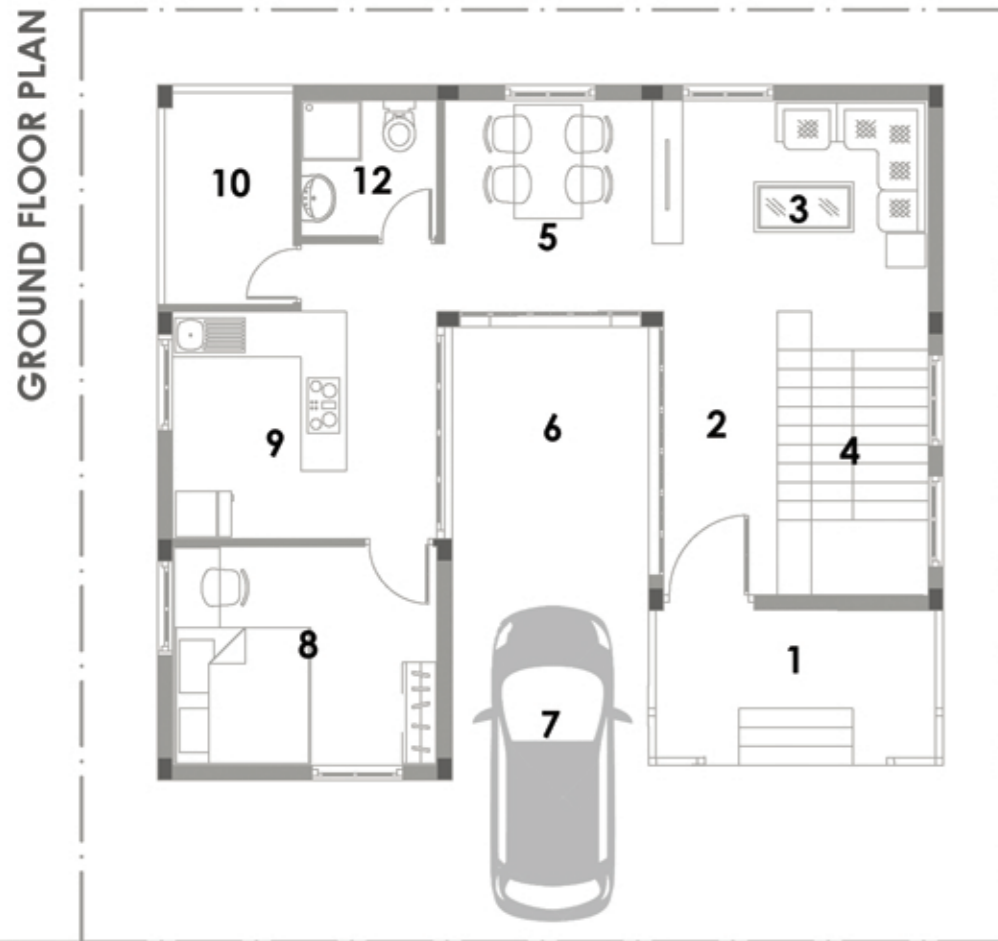
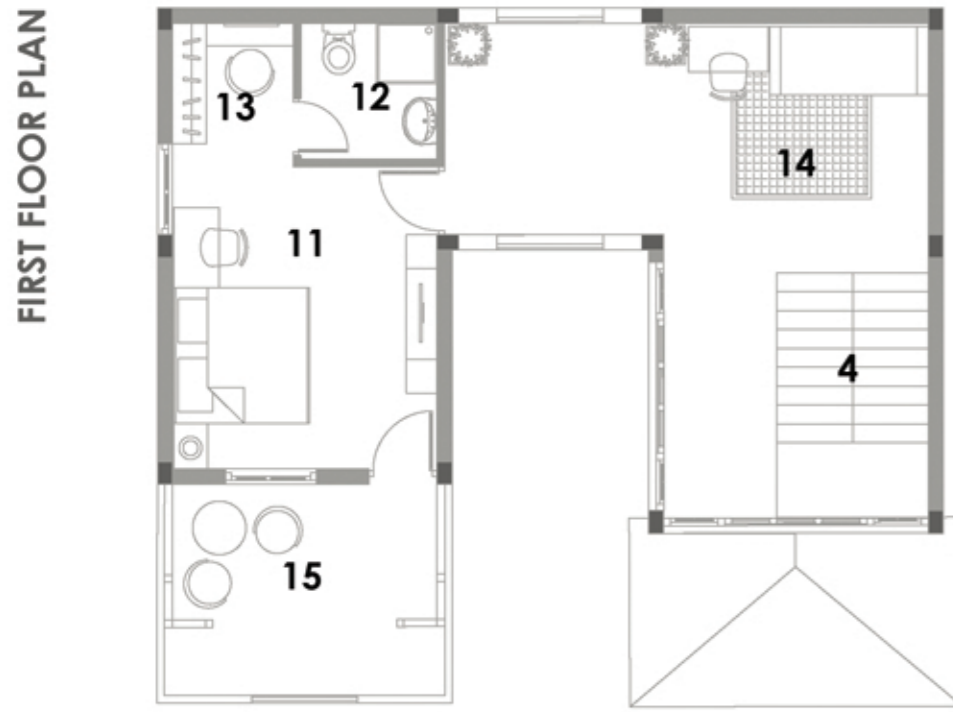




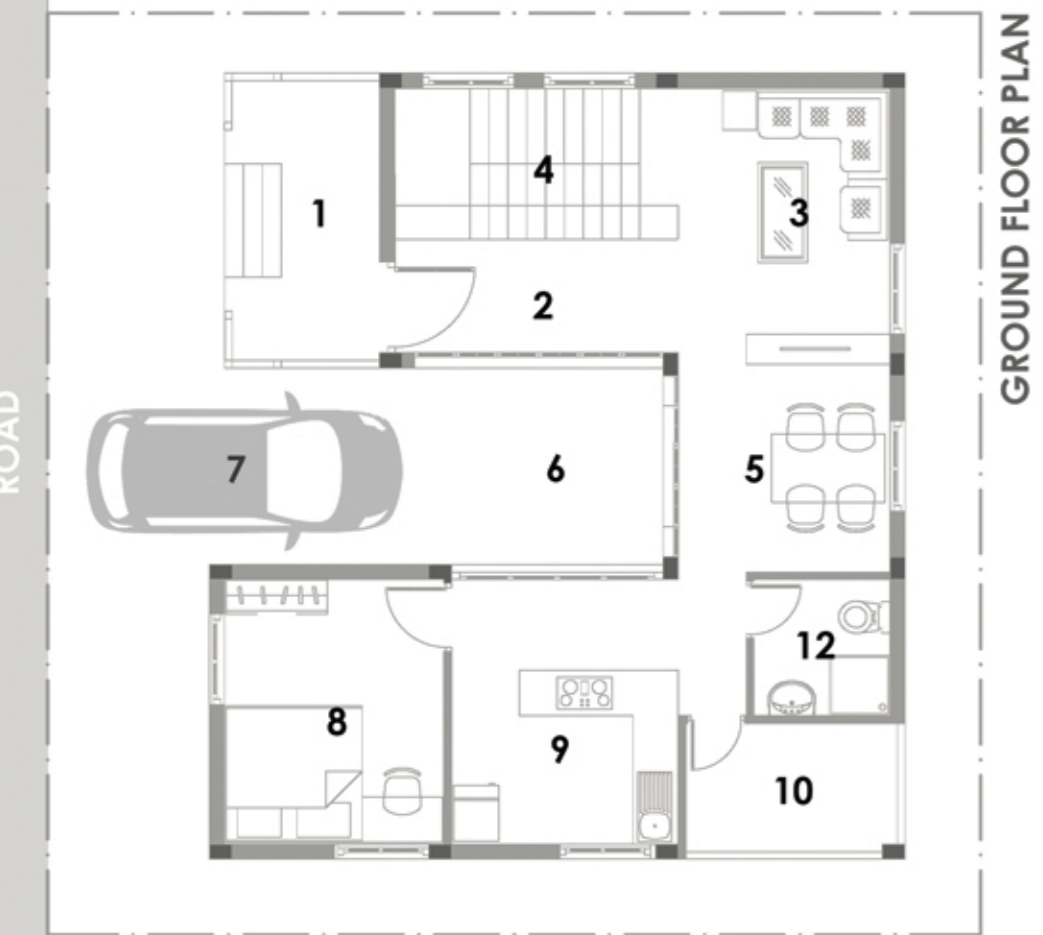
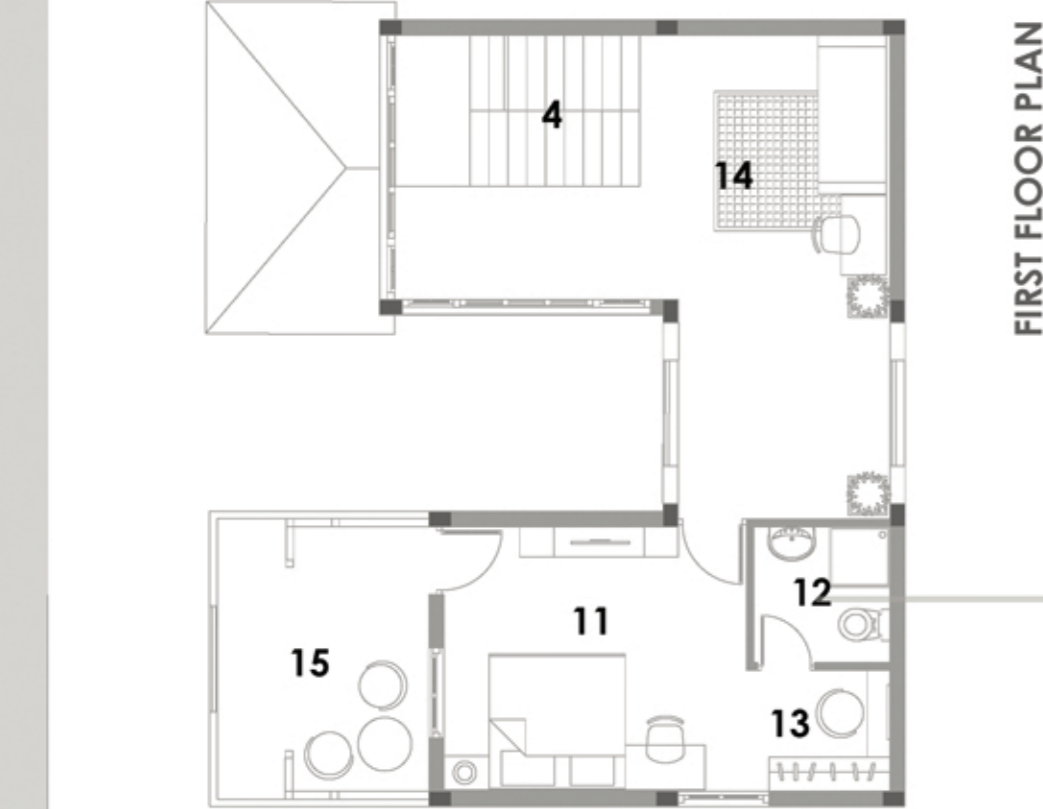


# DETAIL FLOOR PLANS

CASE III : SOUTH FACING PLOT



CASE IV : WEST FACING PLOT



- 1 ENTRANCE VERANDAH
- 2 FOYER
- 3 LIVING ROOM
- 4 STAIRCASE
- 5 DINING ROOM
- 6 COURTYARD
- 7 CAR PARKING
- 8 BED ROOM
- 9 KITCHEN
- 10 WASH AREA
- 11 MASTER BEDROOM
- 12 TOILET
- 13 CLOSET
- 14 WORKSPACE
- 15 BALCONY



SECTION



ELEVATION

SECTION



ELEVATION

CASE III

ELEVATION



SECTION

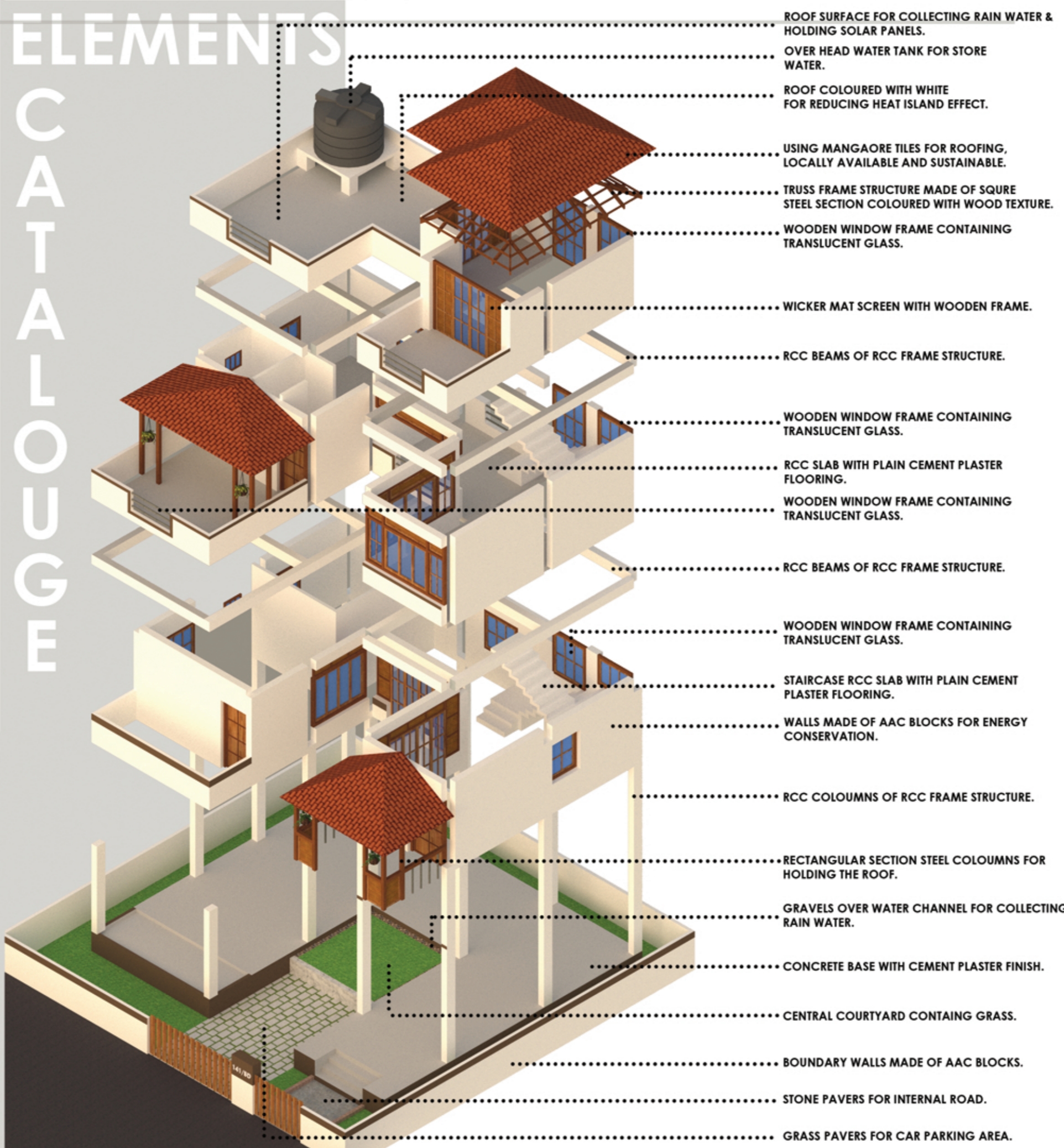
CASE IV

ELEVATION



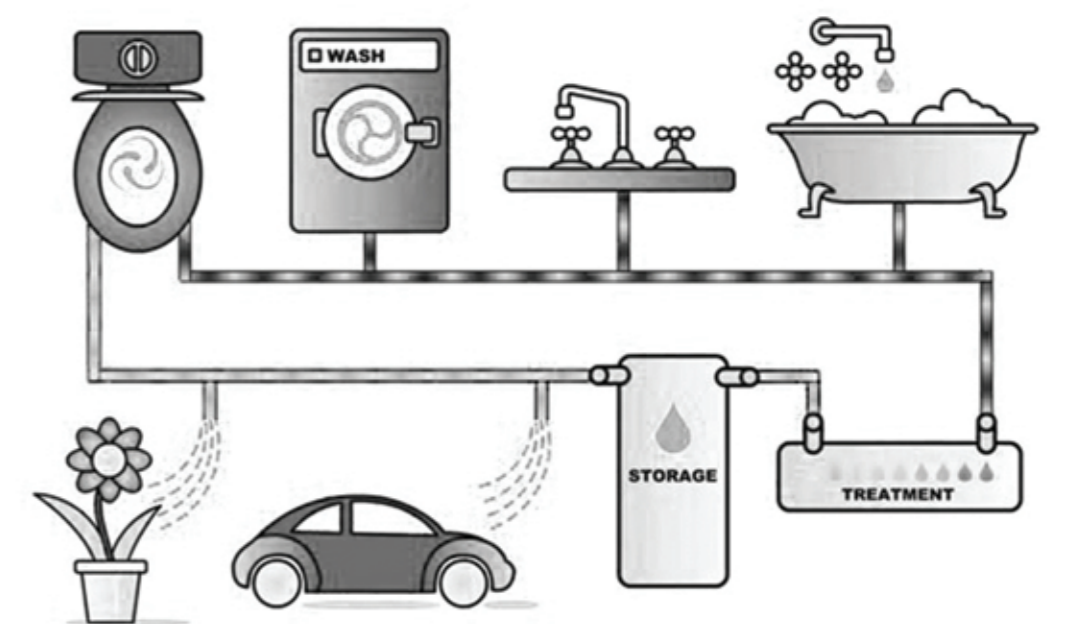
SECTION

# ELEMENTS CATALOGUE

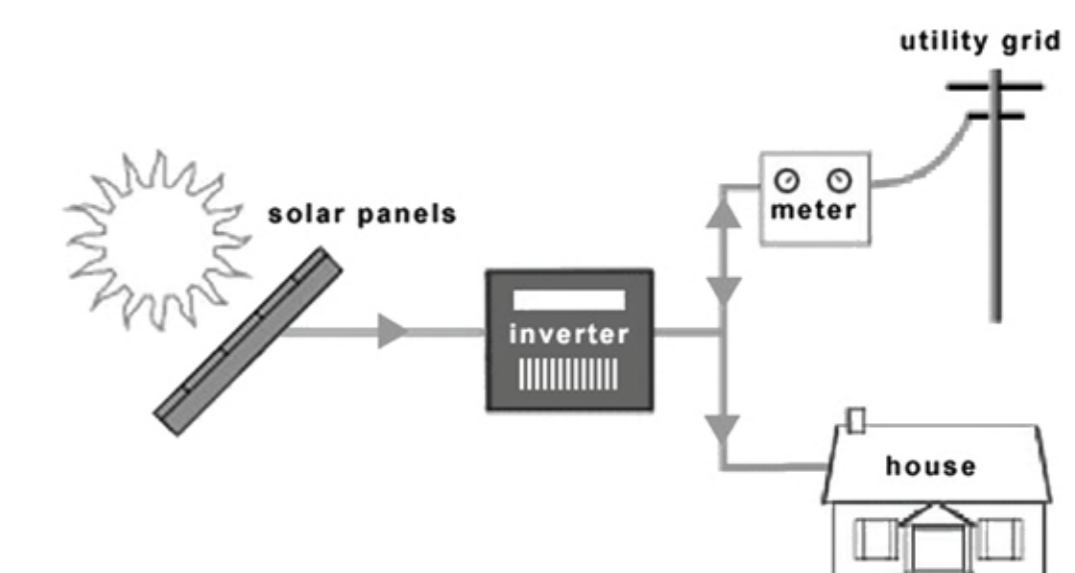


# SUSTAINABLE SYSTEMS

## WASTE WATER MANAGEMENT



## ELECTRICITY MANAGEMENT



## RAIN WATER HARVESTING

