Palava



Palava

Landscape grain

LANDSCAPE CHARACTER
F - Formal / Tended
N - Nature like

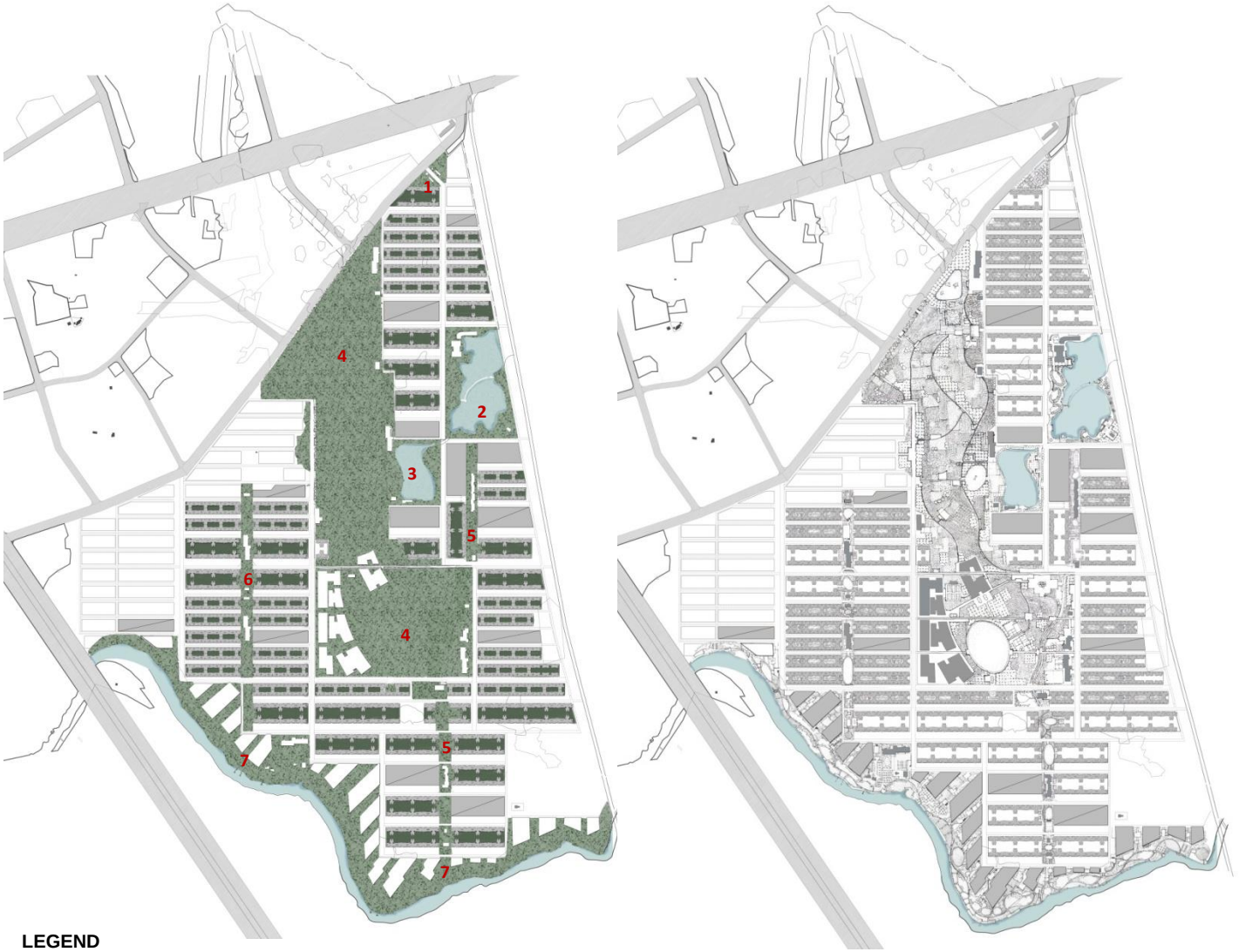
USAGE PATTERN
M - Morning
A - Afternoon
N - Night

MAINTENANCE
L - Low
M - Medium
H - High

NOTE: Landscaping water requirement

High maintenance	– 7.0 lts/sq.m./day
Medium maintenance	– 4.0 lts/sq.m./day
Low maintenance	– 1.5 lts/sq.m./day

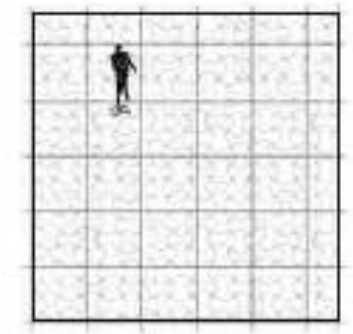
PALAVA
Potential Landscape areas



LEGEND

1.	Entrance plaza	- 8,200	Sq m
2.	Lake	- 80,260	Sq m
3.	Quarry Lake	- 41,148	Sq m
4.	Gauchar	- 2,58,126	Sq m
5.	Swale	- 44,100	Sq m
6.	Grid park	- 58,300	Sq m
7.	River side green	- 1,50,000	Sq m

OPEN SPACE RATIO
Comparative analysis



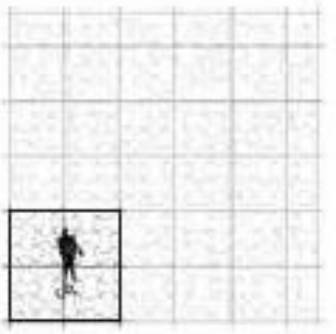
London
1,577 sq.km
31.68 sq.m / person



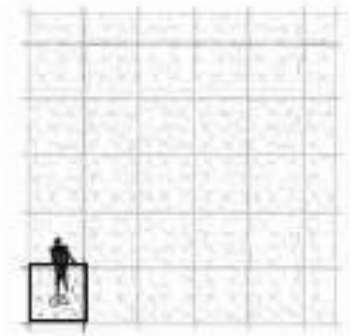
New York
1,213 sq.km
26.4 sq.m / person



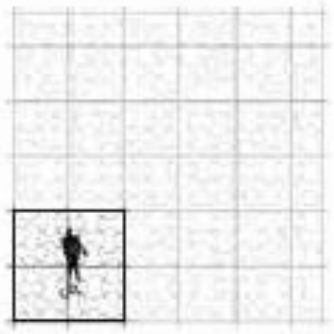
Chicago
606 sq.km
17.6 sq.m / person



Tokyo
2,187 sq.km
3.96 sq.m / person



Mumbai
603 sq.km
1.1 sq.m / person



Palava
2.38 sq.km
4 sq.m / person
(Note : Gauchar considered in open space)

Reference : LEAF document No. – 9 ; 2012

MASTER PLAN



LEGEND

1. Entrance plaza
2. Lake
3. Quarry Lake
4. Gauchar
5. Swale
6. Grid park
7. River side green

ENTRANCE PLAZA

Area for landscape : 8200 sq.m.

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1. SPACE TYPE Public

2. LANDSCAPE CHARACTER



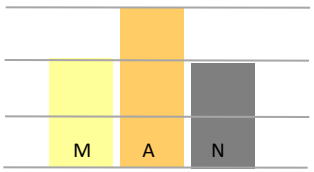
3. LANDSCAPE VALUE Aesthetic
(visual , creating vistas)

4. LANDSCAPE EDGES

Visual Transparent

Accessibility Open

5. USAGE PATTERN



6. MAINTENANCE



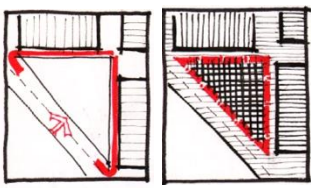
7. PROGRAMME

Entrance gesture – Plaza / waterfeature
Security cabin
Information kiosks
Signages / Hoardings
Parking for the Retail blocks

8. LANDSCAPE CHARACTER



9. URBAN RESPONSE



`

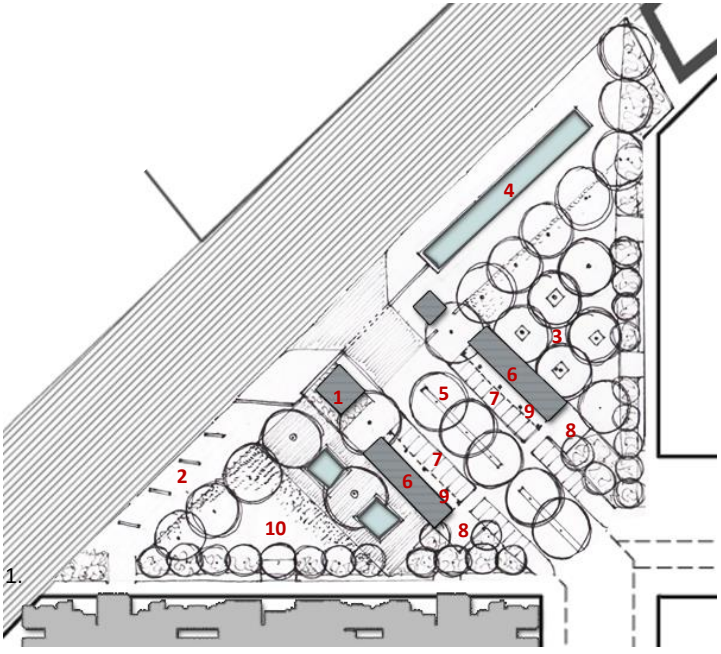
ENTRANCE PLAZA
Landscape potential



LEGEND

- Entry
- Green
- Plaza / Node
- Circulation
- View point

1. Security Hub
2. Signage's/Hoardings
3. Plaza with trees
4. Water feature
5. Avenue road
6. Retail
7. Parking for retail
8. Service area(Retail)
9. Walking promenade
10. Congregation Space



OPTION 1.

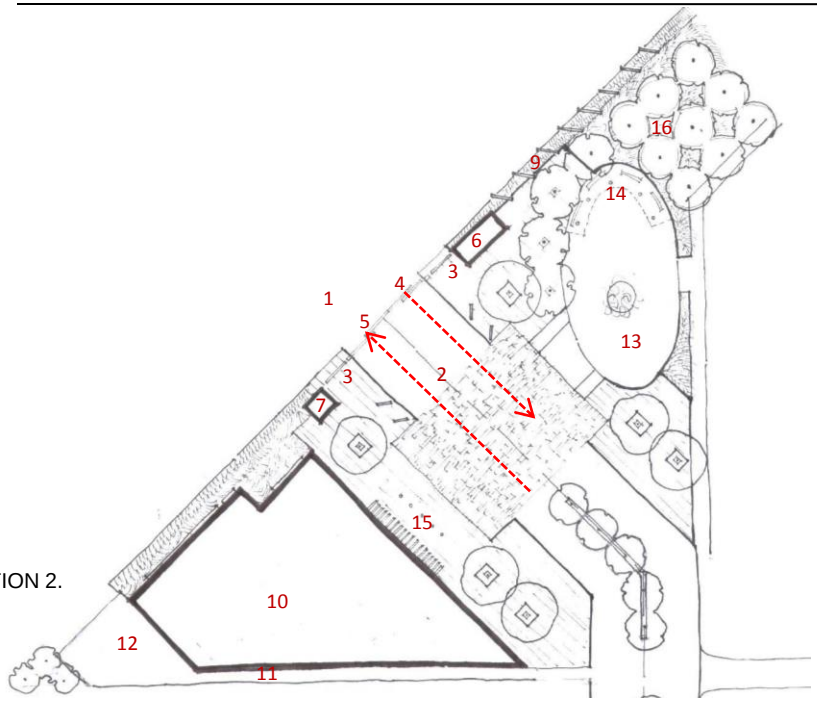


Key plan

ENTRANCE PLAZA

Landscape grain

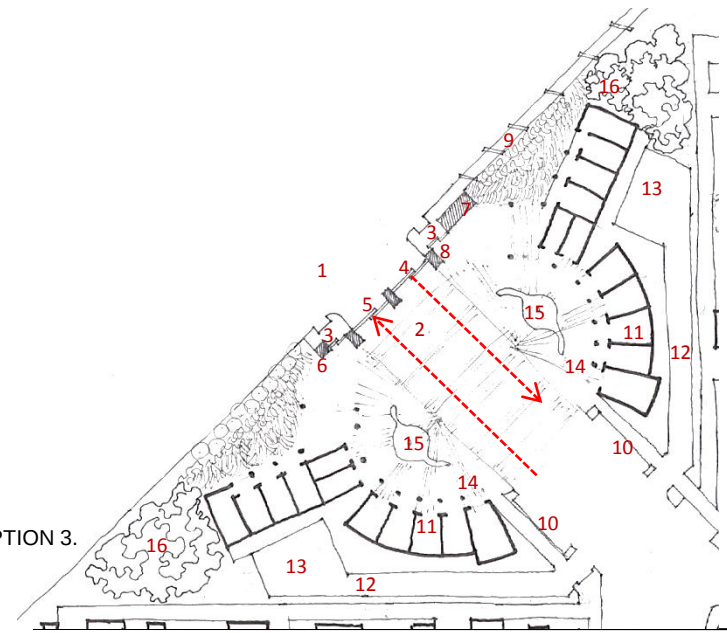
OPTION 2.



LEGEND

1. DP road
2. Central Spine
3. Pedestrian Entry
4. Vehicular Entrance
5. Vehicular Exit
6. Security Hub
7. Security cabins
8. Information kiosk
9. Signage's /Hoardings
10. Retail (G+ 2)
11. Service road
12. Loading /Unloading Area
13. Plaza with Art Installation
14. Pergola with sitting under
15. Water Feature
16. Orchard /grove

OPTION 3.



LEGEND

1. DP road
2. Central Spine
3. Pedestrian Entry
4. Vehicular Entrance
5. Vehicular Exit
6. Security hub
7. Security cabins
8. Information desk
9. Signage's/ Hoardings
10. Parking
11. Retail
12. Service road
13. Loading/Unloading Area
14. Plaza
15. Water Feature
16. Dense/ Buffer vegetation



Key plan

LAKE FRONT

Area for landscape : 80,260 sq.m.

1. SPACE TYPE

Public

2. LANDSCAPE CHARACTER



3. LANDSCAPE VALUE

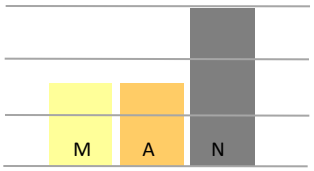
Aesthetic
Ecological
Socio-cultural
Religious

4. LANDSCAPE EDGES

Visual — Transparent

Accessibility — Open

5. USAGE PATTERN



6. MAINTENANCE

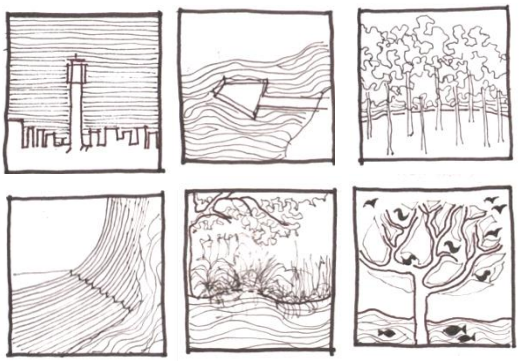


7. PROGRAMME

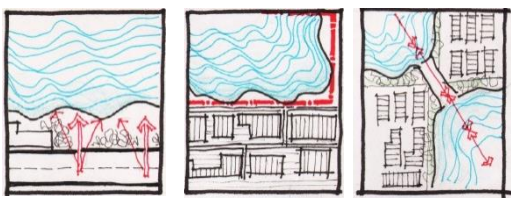
Western Edge:
Promenade – Walking,Jogging
Informal Eateries
Open markets
Café – small
Gathering space – small scale + city scale
Festivals
Parking space

Southern Edge :
Ghats
Perfomance/Pooja/Rituals
Access to water – possibility of touching water
Area for biodiversity along the lake edge

8. LANDSCAPE CHARACTER



9. URBAN RESPONSE



QUARRY LAKE

Area for landscape : 41,148 sq.m.

1. SPACE TYPE Public

2. LANDSCAPE CHARACTER



3. LANDSCAPE VALUE

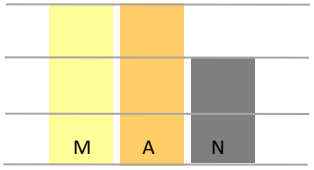
Ecological
Religious

4. LANDSCAPE EDGES

Visual: Transparent

Accessibility: Open

5. USAGE PATTERN



6. MAINTENANCE

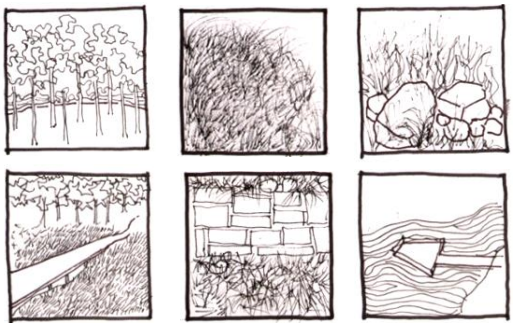


7. PROGRAMME

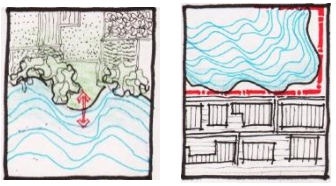
Eastern Edge:
Picnic spot – Woodlands
Eateries –Nariyal pani ,fruits
Nature trails & boardwalks,
Pause points and points for viewing birds, insects, butterflies, etc.

Western Edge :
Grasslands and Groves
Congregation grounds
Religious Festivals & rituals
Laughter clubs
Meditation & Yoga centres
Informal markets of flowers, pooja items ,etc.,
Visitors Parking

8. LANDSCAPE CHARACTER



9. URBAN RESPONSE



LAKE FRONT
Landscape potential



LEGEND

- Entry
- Green
- Plaza / Node
- Circulation
- View point

1. Entry
2. Hotel
3. Town hall
4. Residential building
5. Temple
6. School
7. Swale



Key plan

LAKE FRONT
Landscape grain



LEGEND

1. Entrance plaza
2. Visitors Parking
3. Congregation lawn for town hall
4. Hawker's zone/ Informal Eatery
5. Kids play area
6. Promenade/Jogging / walking track
7. Sculpture/focal point
8. Cafeteria
9. Trail along the lake edge
10. Seating spaces
11. Dense green canopy
12. Temple plaza
13. Ghats for religious rituals
14. Groves / flowering trees
15. Jetty
16. Play courts
17. Play ground
18. Flower market
19. Yoga / Meditation centres

GAUCHAR
Area for landscape : 2,58,126 sq.m.

1. SPACE TYPE

Shared public space -existing settlements and Palava

2. LANDSCAPE CHARACTER



3. LANDSCAPE VALUE

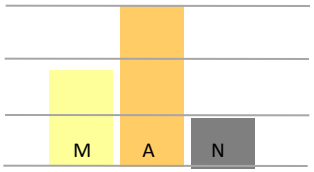
Economic
Ecological
Recreational

4. LANDSCAPE EDGES

Visual — Porous

Accessibility — Open

5. USAGE PATTERN



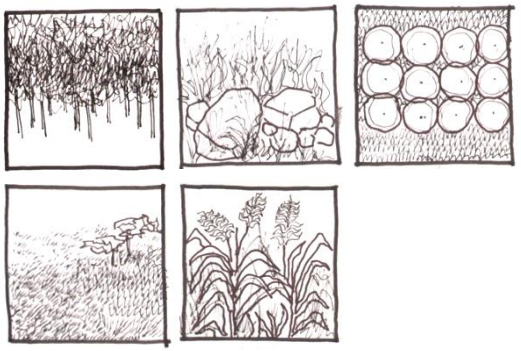
6. MAINTENANCE



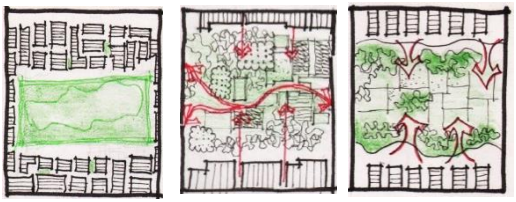
7. PROGRAMME

Productive Landscapes - orchards, agricultural fields, grasslands, grazing lands etc (as buffer between built and maidan)
Maidan for cricket and other sports acting as multipurpose space for gatherings, fairs, festivals, events at city scale

8. LANDSCAPE CHARACTER



9. URBAN RESPONSE

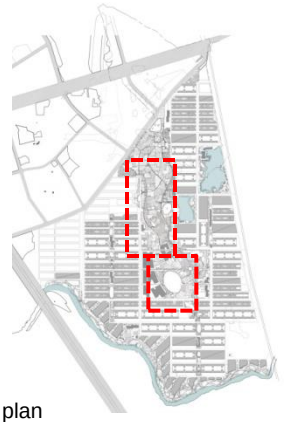


GAUCHAR
Landscape potential

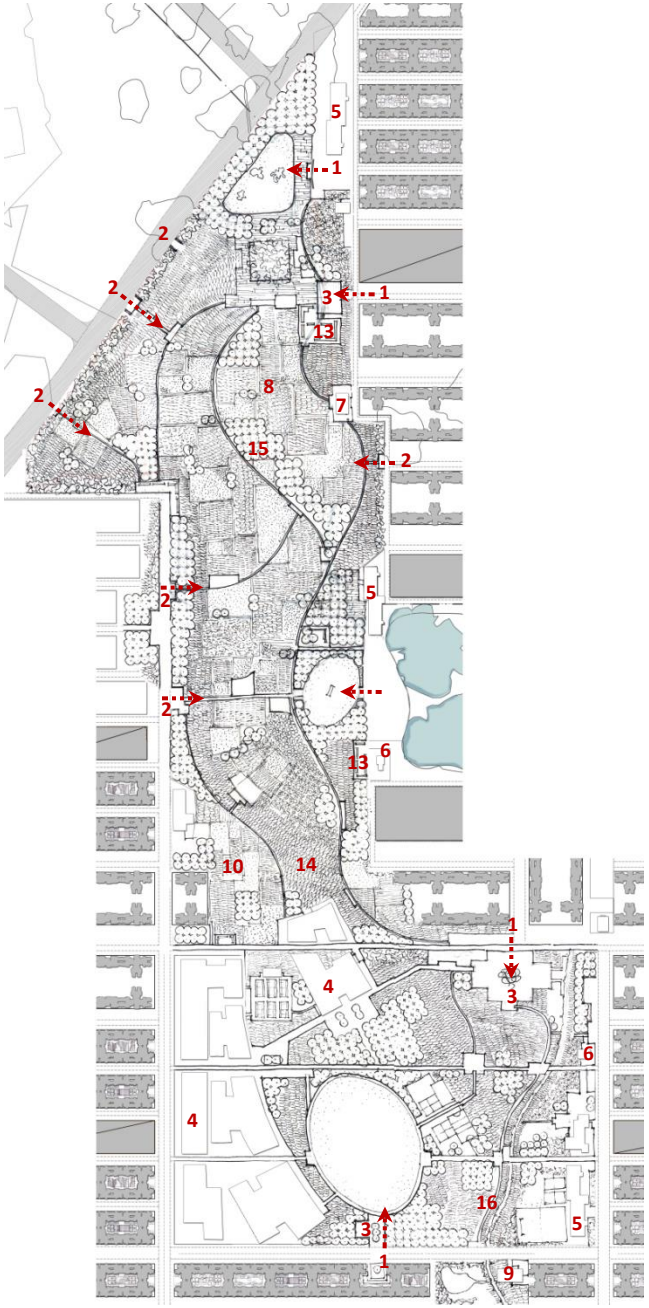


LEGEND

- Entry
- Green
- Plaza / Node
- Circulation
- View point

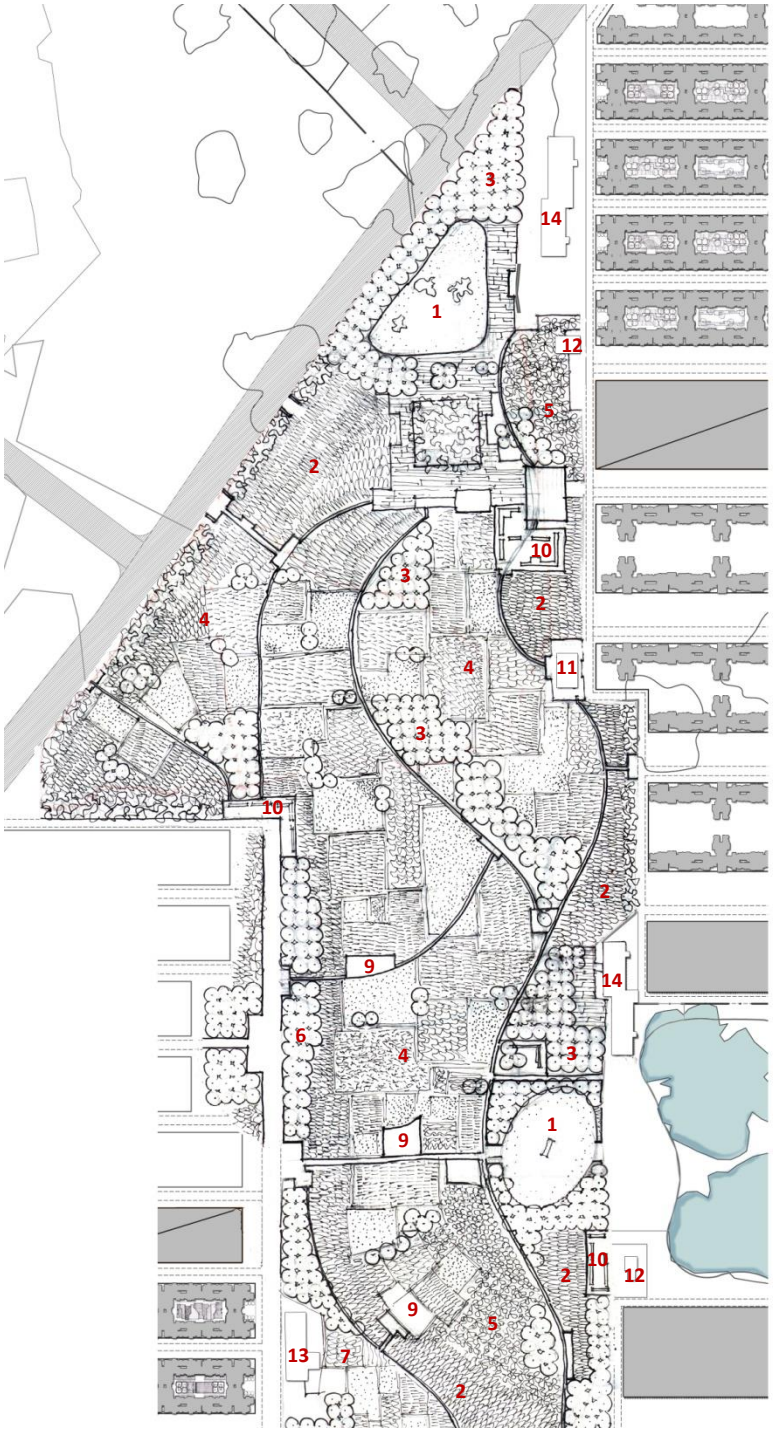


Key plan



LEGEND

1. Main entry
2. Secondary entry
3. Plaza
4. University
5. School
6. Temple
7. Play courts
8. Agriculture fields
9. Community center
10. Herb garden
11. Board walk
12. Maidans
13. Informal Markets
14. Grasslands
15. Orchards
16. Swale

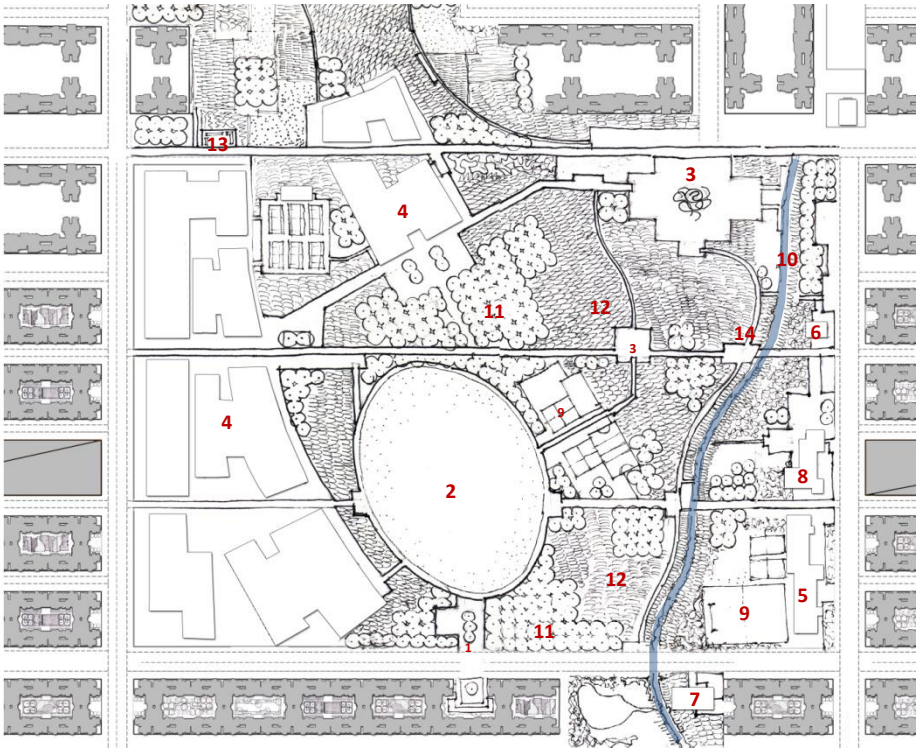


LEGEND

1. Maidan
2. Grassland
3. Orchard
4. Agricultural fields
5. Flower field
6. Thicket
7. Herb garden
8. Informal market
9. Picnic spot
10. Informal market
11. Community center
12. Temple
13. Old age home
14. School

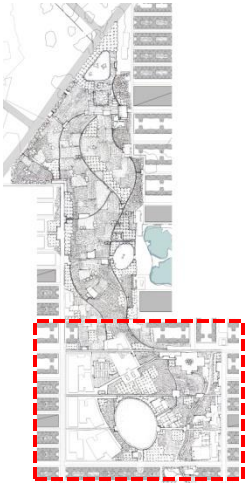


Key plan

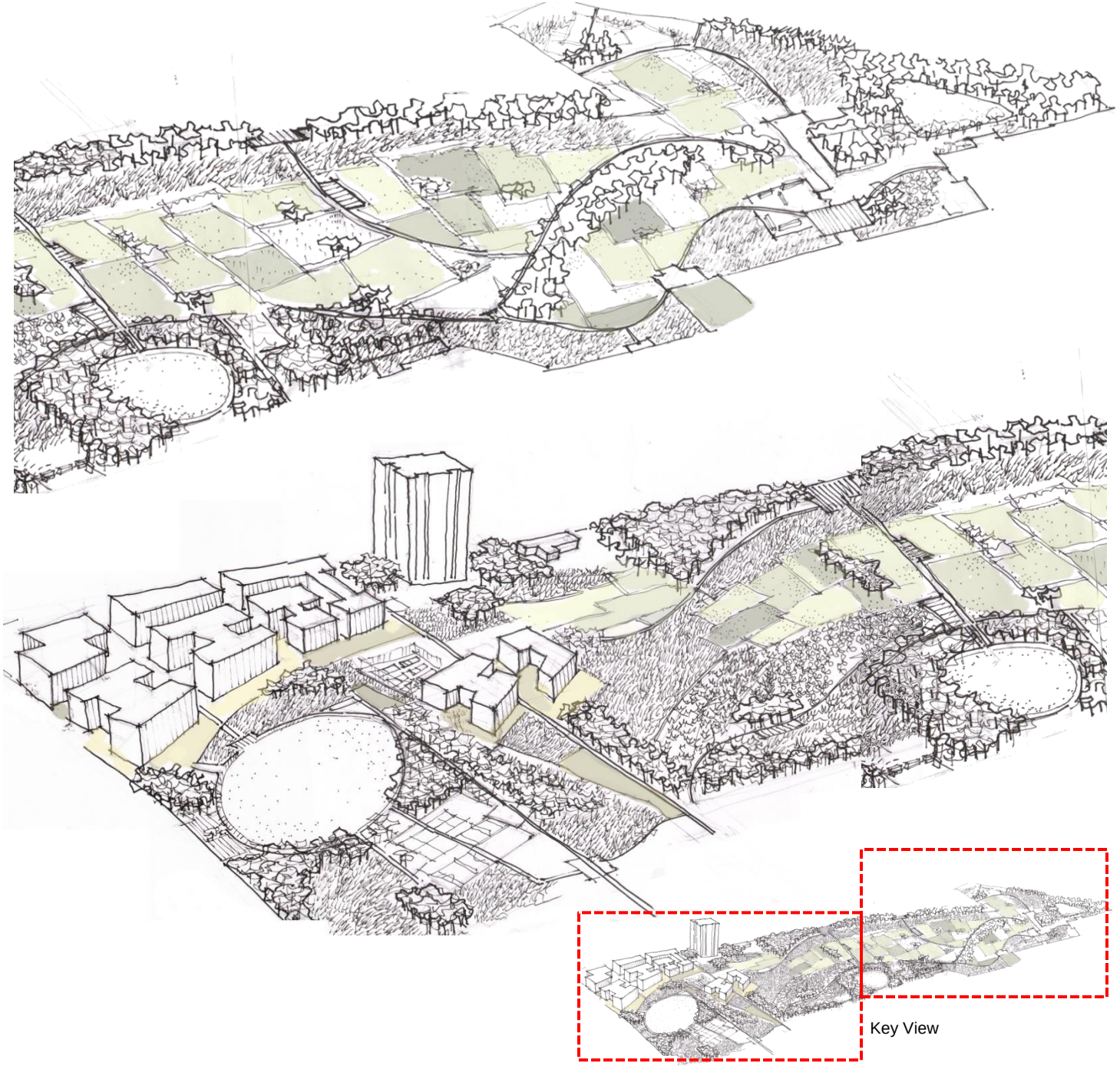


LEGEND

1. Main entry
2. Maidan
3. Plaza
4. University
5. School
6. Temple
7. Community center
8. Hospital
9. Play courts
10. Swale
11. Orchard
12. Grassland
13. Informal markets
14. Cycling trail



Key plan


Key View

Urban Agriculture Production Consumption Scenario
Gauchar Land

Crops	Yield (kg/acre)	Gauchar area for cultivation (acre)	Total yield (kg)	kg/person/year	No of peeple catered /year	Demand (kg)	Supply (kg)	Defecit (kg)
Rice	400	35.3	14120	25 kg/year	564.8	5000000	14120	4985880
Vegetable				43.2 kg/year				
Potatoes	6000	35.3	211800		4902.777778	8640000	211800	8428200
Tomatoes	8000	35.3	282400		6537.037037	8640000	282400	8357600
Cauliflower	10,000	35.3	353000		8171.296296	8640000	353000	8287000
Cabbage	8000	35.3	282400		6537.037037	8640000	282400	8357600
Carrot	6000	35.3	211800		4902.777778	8640000	211800	8428200

Rice and Vegetable cultivation will be highly deficit for the Pallava city and isn't a feasible option

Fruits	Spacing	fruits/ tree	Kg / tree	No of trees in 35.3 acre	Area (acre)	No of fruits	Total Kg	Per capita consumption kg/year	No of peeple catered /year	Demand (Quintal)	Supply (Quintal)	Defecit (Quintal)
Mangoes	9m x 9m	3000		1763.45679	35.3	5290370	1322592.59	10	132259.26	20000	13225.93	6774.074
Guava	3 x 4.5	500	90	10580.7407	35.3	5290370	952266.667	10	95226.667	20000	9522.667	10477.33

Fruits Production as per design – Area under fruit cultivation will cater to 1/4th of total Palava population fruit requirement

Fruits	Spacing	No fruits/tree	No of trees as per design	No of fruits	Total Kg= 4 fruits	Per capita consumption/year	No of peeple catered /year	Demand (kg)	Supply (kg)	Defecit (kg)
Mangoes	9m x 9m	3000	700	2100000	525000	10 kg	52500	2000000	525000	1475000

*** source – According to WHO Per capita consumption per year is 120 gm/ person/day
World Health Organization (http://www.who.int/nutrition/topics/3_foodconsumption/en/index5.html)
** source - My Agriculture Information bank
* Source - National Bank for Agriculture and Rural Development (NABARD) (http://www.nabard.org/modelbankprojects/plantation.asp)

SWALE PARK

Area for landscape : 44,100 sq.m.

1. SPACE TYPE

2. LANDSCAPE CHARACTER



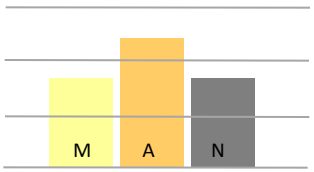
3. LANDSCAPE VALUE

4. LANDSCAPE EDGES

Visual

Accessibility

5. USAGE PATTERN



6. MAINTENANCE

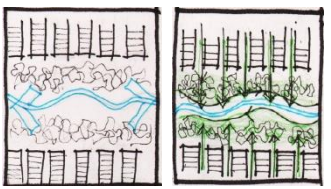


7. PROGRAMME

8. LANDSCAPE CHARACTER

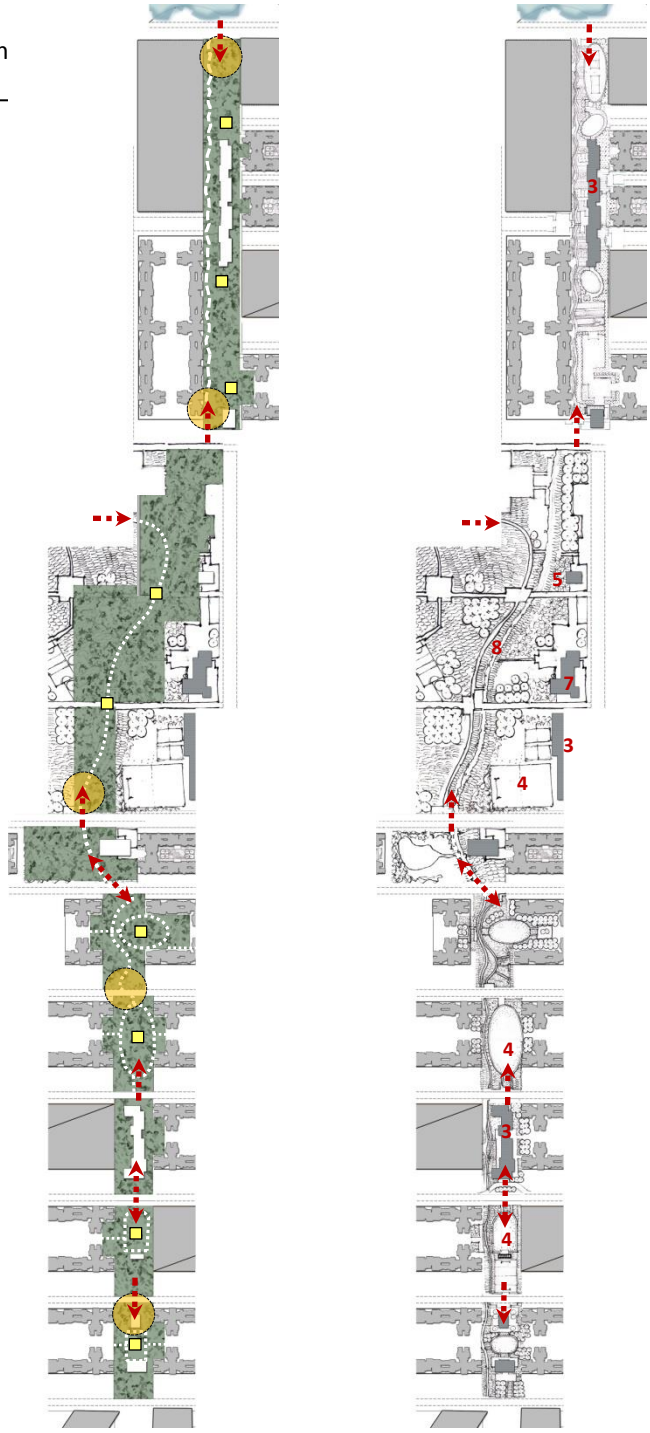


9. URBAN RESPONSE



SWALE PARK

Landscape potential and Landscape grain



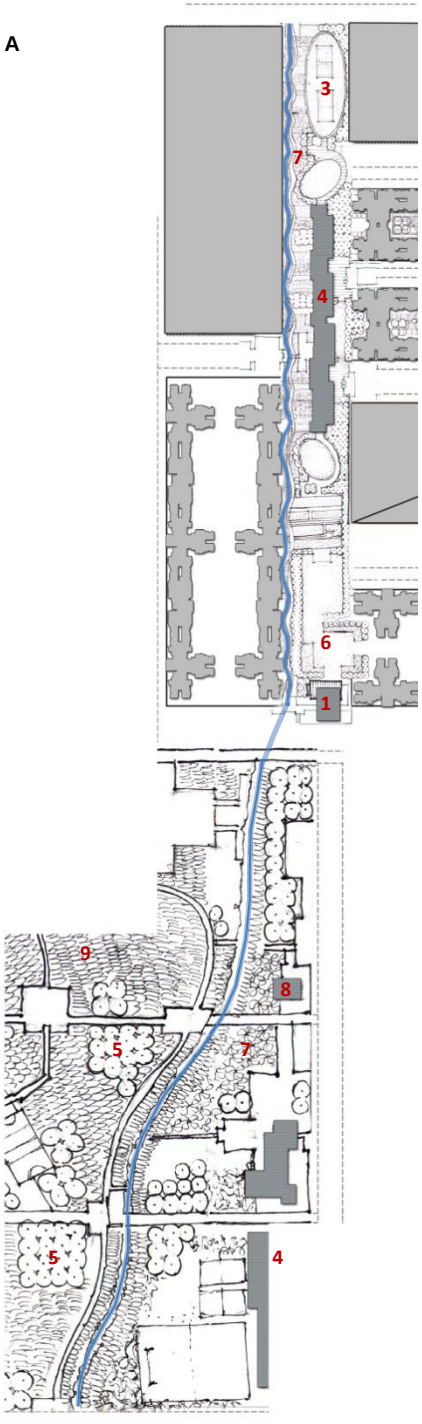
LEGEND

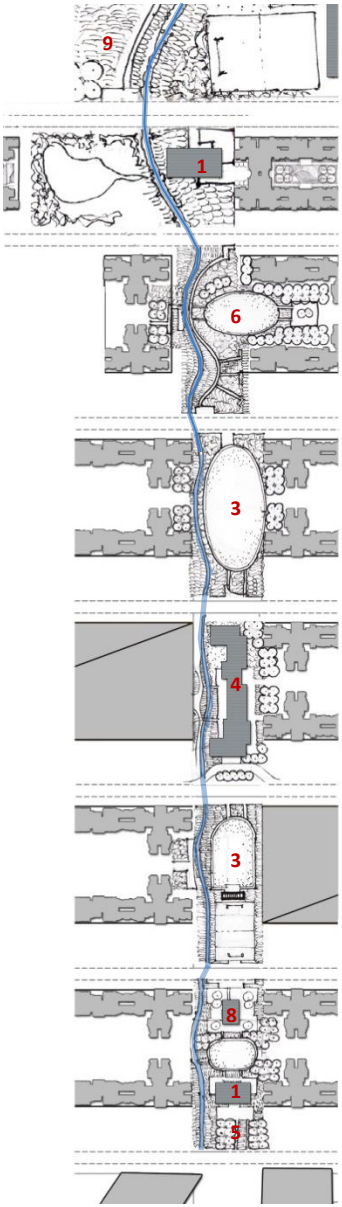
- Entry
- Green
- Plaza / Node
- Circulation
- View point

1. Entry
2. Plaza
3. Institutional building
4. Playground
5. Temple
6. Community center
7. Hospital
8. Swale



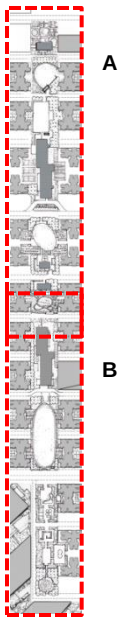
Key plan





LEGEND

1. Community center
2. Play ground / Maidan
3. Sports utility / Indoor sports area
4. School
5. Orchard
6. Congregation lawn
7. Flower garden
8. Temple
9. Grassland



Key plan

GRID PARK

Area for landscape : 58,300 sq.m.

1. SPACE TYPE Public

2. LANDSCAPE CHARACTER



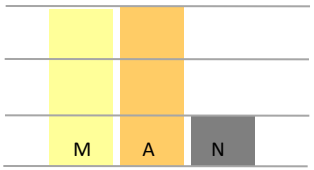
3. LANDSCAPE VALUE Recreational

4. LANDSCAPE EDGES

Visual: Transparent

Accessibility: Open

5. USAGE PATTERN



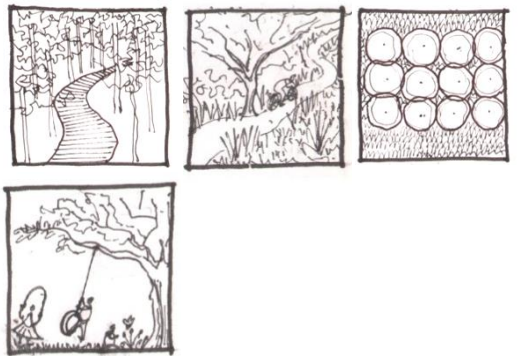
6. MAINTENANCE



7. PROGRAMME

Neighbourhood parks
Kindergarden
Play areas
Old age parks
Walking / cycling trails

8. LANDSCAPE CHARACTER



9. URBAN RESPONSE



GRID PARK

Landscape potential and Landscape grain



LEGEND

Entry

Green

Plaza / Node

Circulation

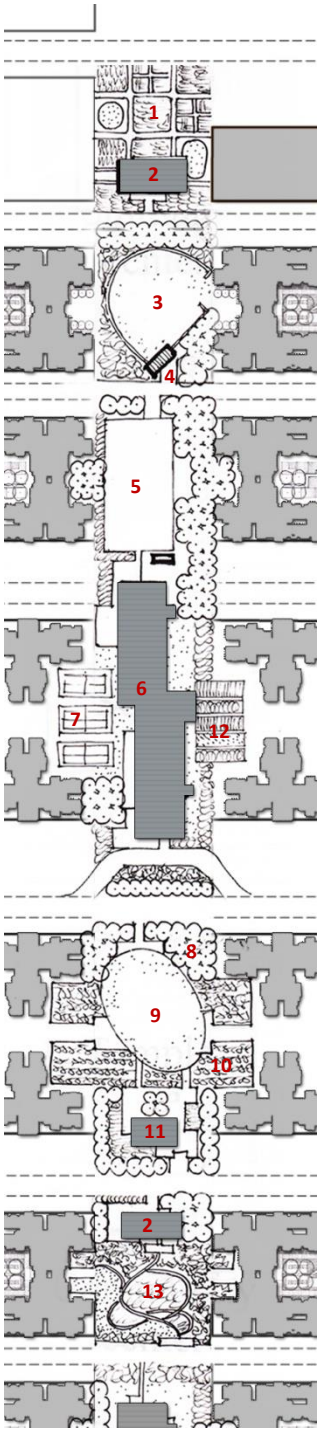
View point

1. Entry points
2. Institutional building
3. Playground
4. Temple
5. Community center
6. Theme Gardens

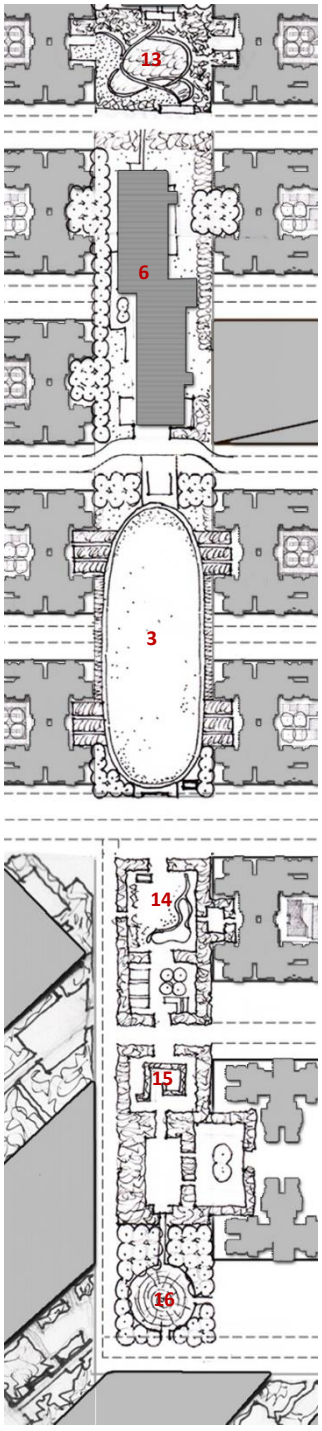


Key plan

A

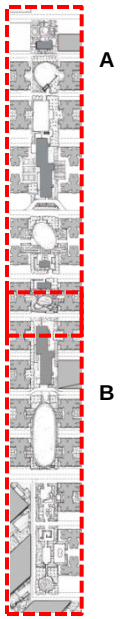


B



LEGEND

1. Bamboo court
2. Community center
3. Play ground / Maidan
4. Sports utility / Indoor sports area
5. Hockey ground
6. School
7. Tennis court
8. Orchard
9. Congregation lawn
10. Flower garden
11. Temple
12. Vegetable garden
13. Butterfly garden
14. Miniature garden
15. Maze
16. Garden for the elderly



Key plan

RIVER FRONT
Area for landscape : 1,50,000 sq.m.

1. SPACE TYPE Private

2. LANDSCAPE CHARACTER



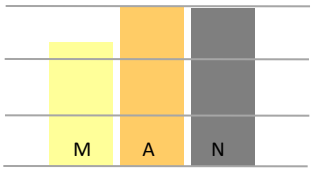
3. LANDSCAPE VALUE Recreational

4. LANDSCAPE EDGES

Visual: Transparent

Accessibility: Open

5. USAGE PATTERN



6. MAINTENANCE



7. PROGRAMME

Eastern Edge:
Walkways, jogging tracks
Picnic spots
Eateries and cafes
Nature trails
Boardwalks, Pause points &
Points for viewing birds , insects, butterflies etc.
Congregation grounds for religious Festivals like Ganesh puja , Dussehra , etc.
Meditation/ spritual centre, Yoga centre
Visitors Parking
Sports facilities and play grounds

8. LANDSCAPE CHARACTER

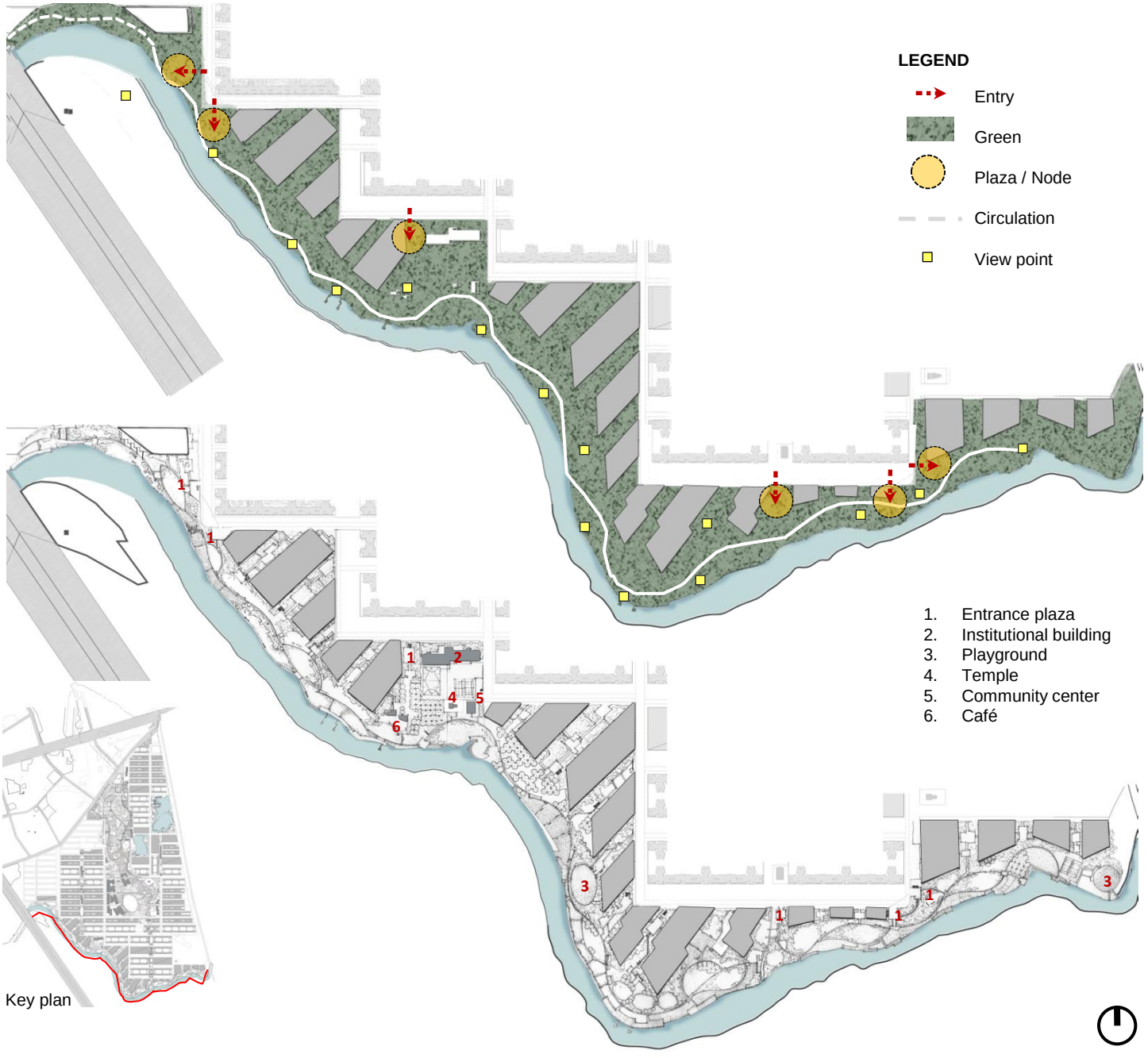


9. URBAN RESPONSE



RIVER FRONT

Landscape potential (3Km stretch)





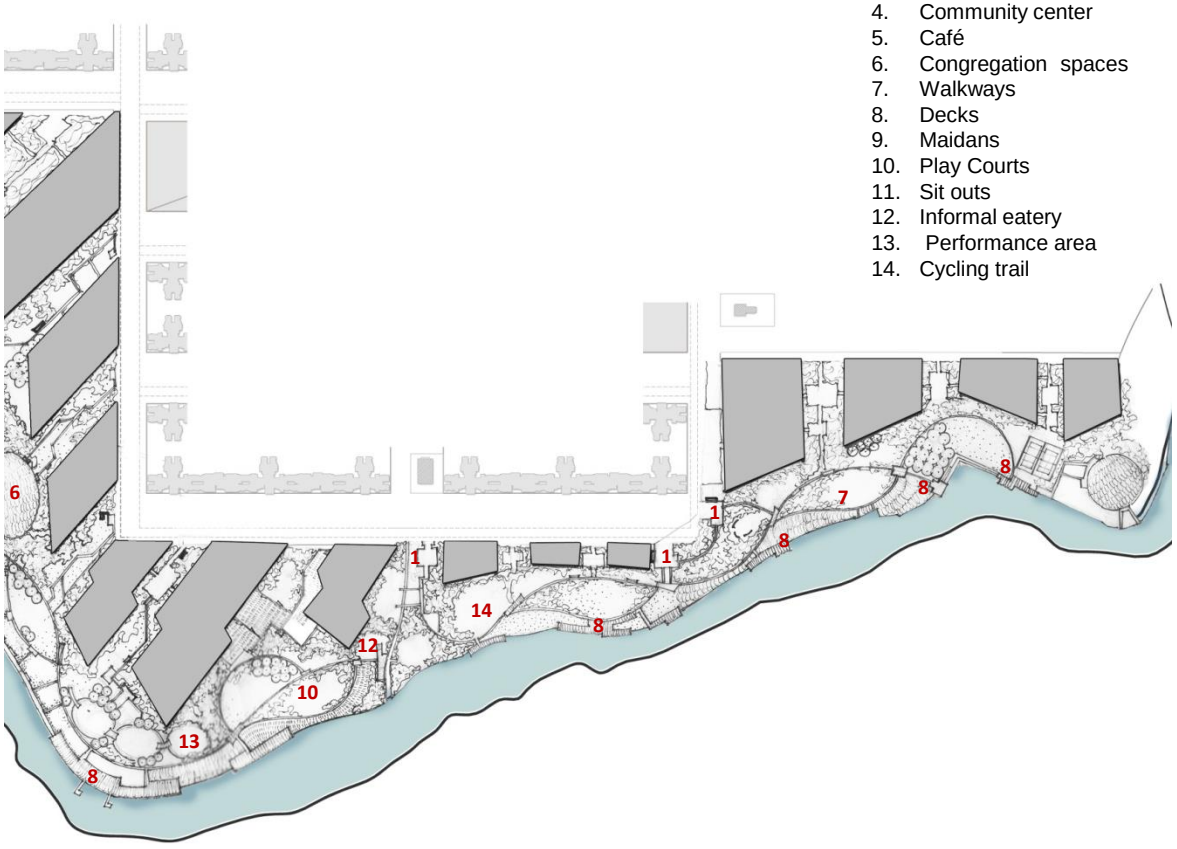
LEGEND

1. Entrance plaza
2. Institutional building
3. Playground
4. Temple
5. Community center
6. Café
7. Congregation spaces
8. Walkways/ jogging tracks
9. Decks
10. Maidans
11. Orchards
12. Sit outs
13. Informal eatery
14. Performance area

Key plan

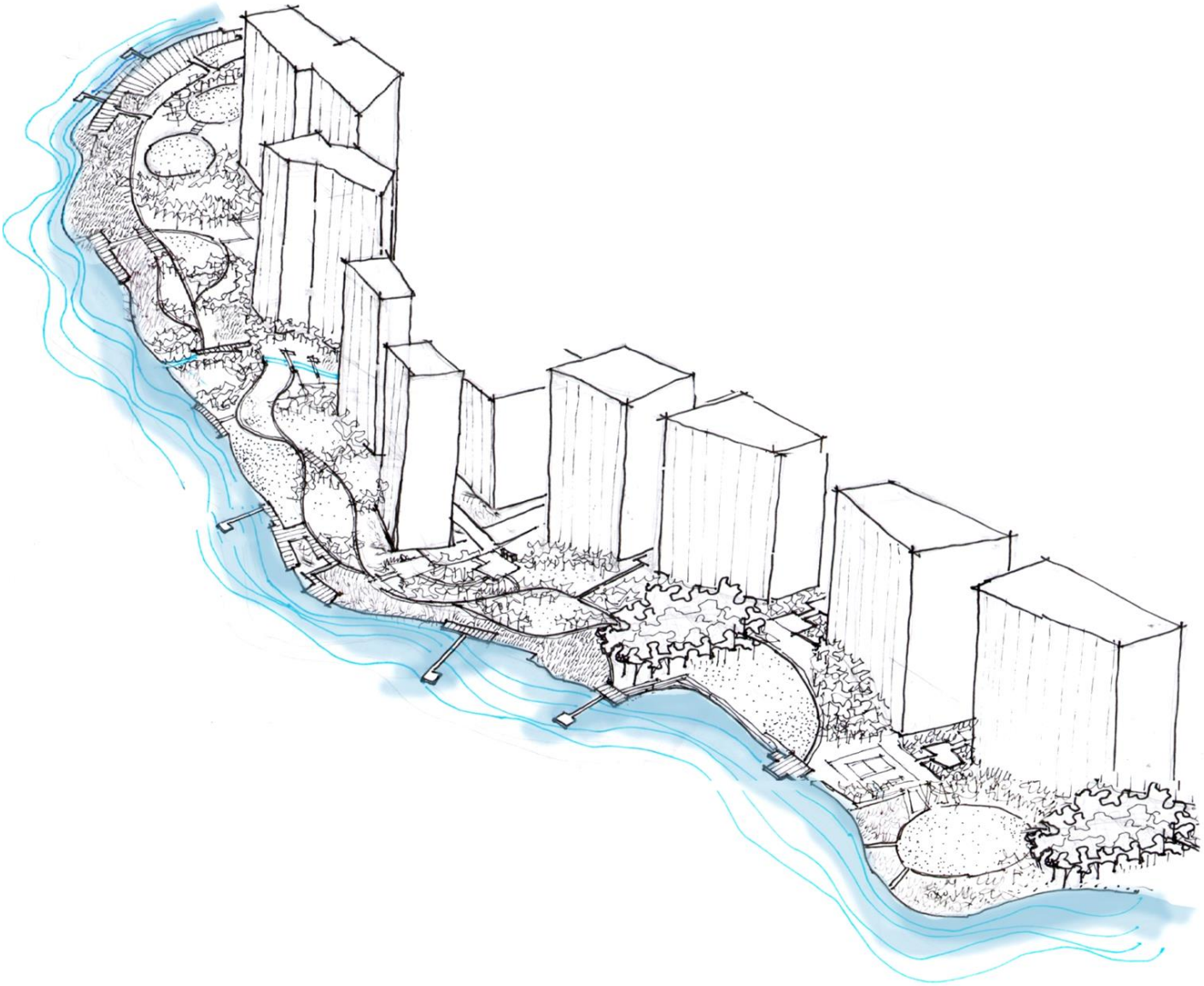
LEGEND

1. Entrance plaza
2. Institutional building
3. Playground
4. Community center
5. Café
6. Congregation spaces
7. Walkways
8. Decks
9. Maidans
10. Play Courts
11. Sit outs
12. Informal eatery
13. Performance area
14. Cycling trail





Key plan



RESIDENTIAL BUILDING COURTS
Area for landscape : 1,46,650 sq.m.

1. SPACE TYPE Private

2. LANDSCAPE CHARACTER



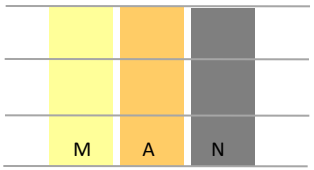
3. LANDSCAPE VALUE Recreational

4. LANDSCAPE EDGES

Visual Transparent

Accessibility Open

5. USAGE PATTERN



6. MAINTENANCE



7. PROGRAMME

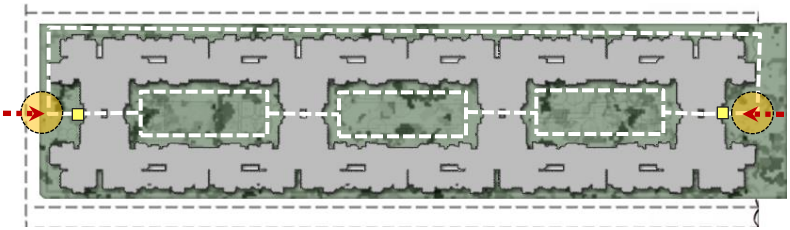
Kindergarden
Play areas
Old age parks
Productive landscapes like
Herb garden, flower garden,
Kitchen garden, etc.
Jogging tracks,
Small congregation spaces

8. LANDSCAPE CHARACTER



RESIDENTIAL BUILDING COURTS

(G+7).



Landscape potential

LEGEND

- Entry
- Green
- Plaza / Node
- Circulation
- View point
- Congregation Court
- Productive Court
- Recreational Court
- Theme Court
- Primary Movement Corridor
- Buffer
- Entry/Exit Points

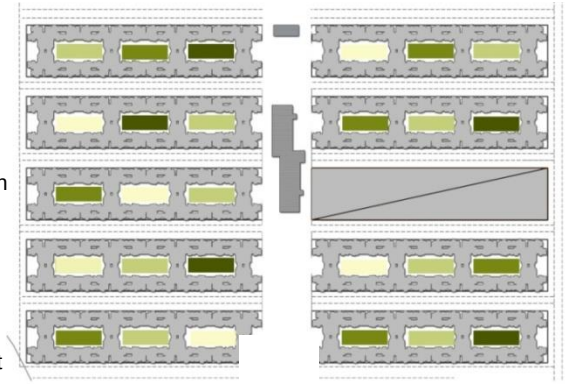
INNER COURTS:

1.Congregation Court

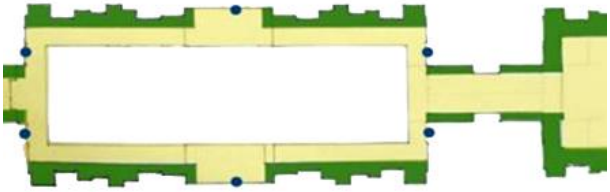
2.Productive Court
- Herb Garden
- Fruit orchard
- Vegetable garden
- Flower Garden

3.Recreational Court

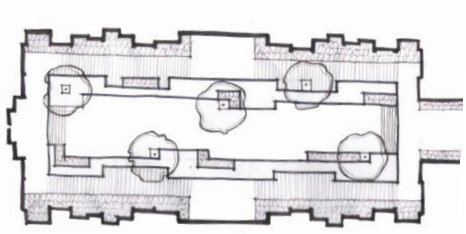
4.Theme Court
- Water Court
- Reflexology Court
- Worship Court



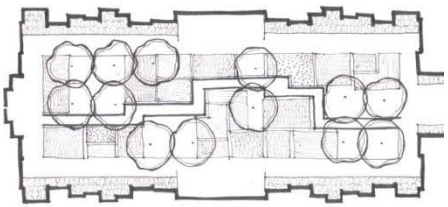
Court Patterns within a Sector



Layout - Inner residential court



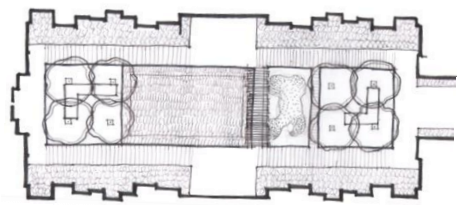
Congregation Court



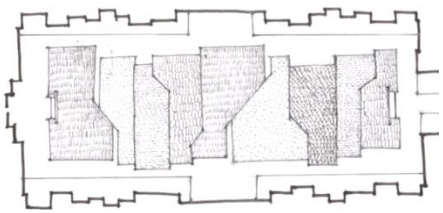
Productive Court



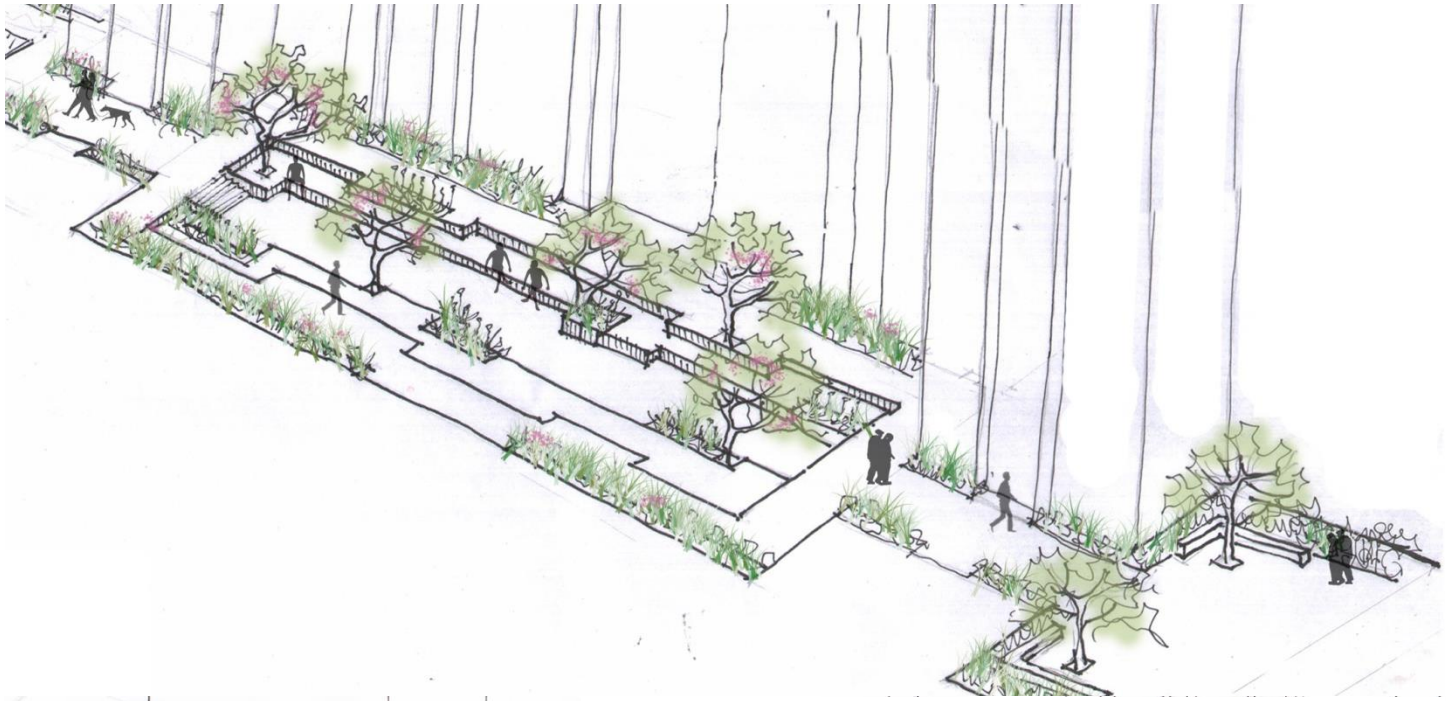
Key plan

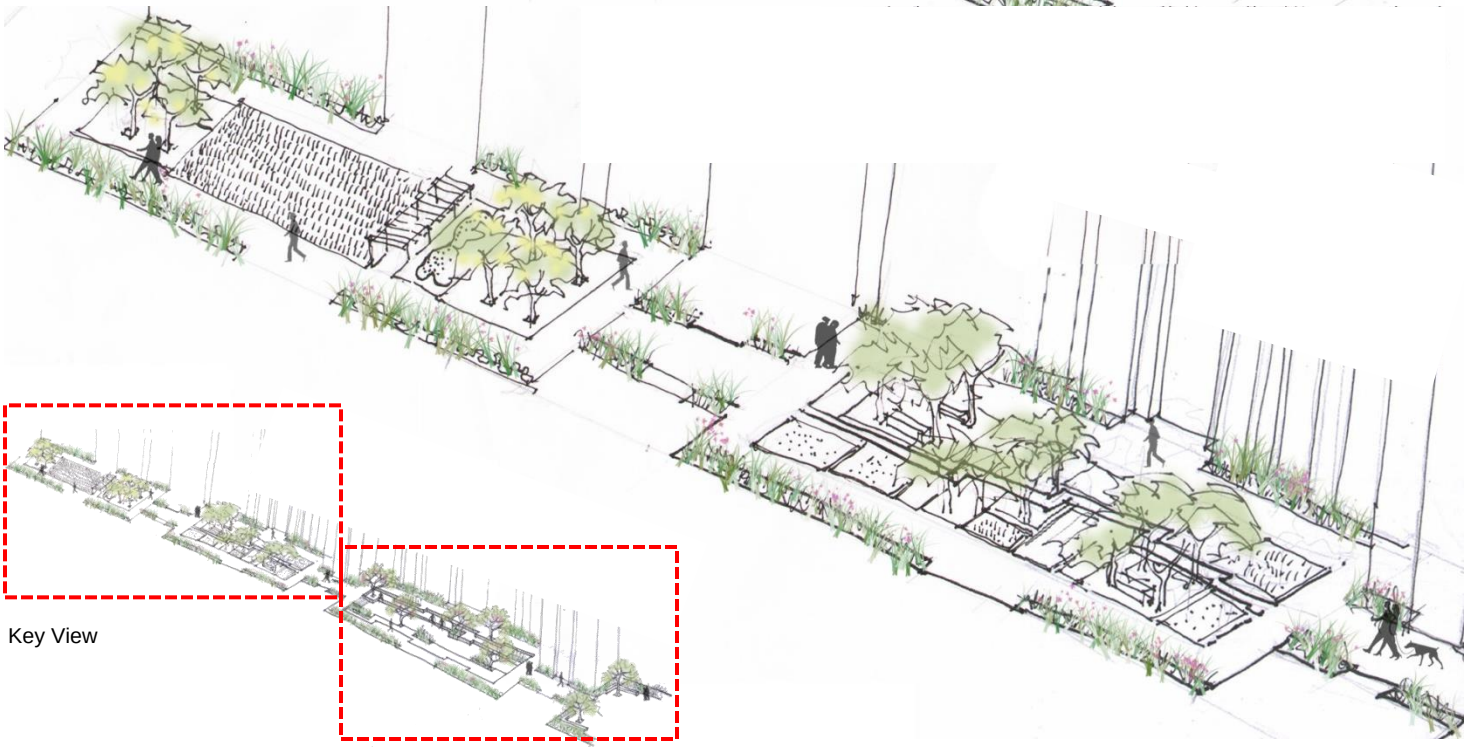


Congregation Court



Productive Court





Key View

ROAD SIDE GREENS
Area for landscape : 60.000 sq.m.

1. SPACE TYPE

Semi - Private

2. LANDSCAPE CHARACTER

F

3. LANDSCAPE VALUE

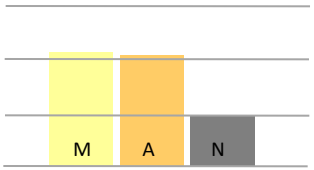
Recreational
Economic

4. LANDSCAPE EDGES

Visual: Transparent

Accessibility: Open

5. USAGE PATTERN



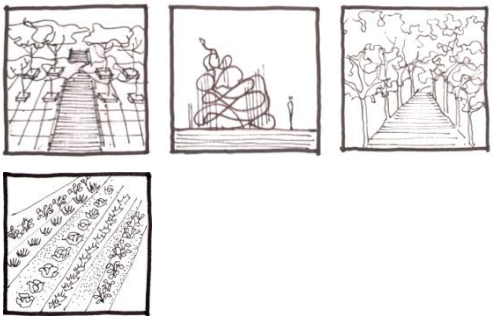
6. MAINTENANCE

L | M | H

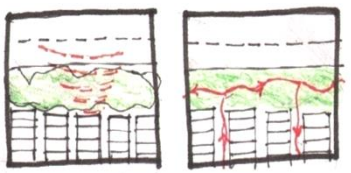
7. PROGRAMME

Cycling tracks
Kitchen gardens
Sand pits & kids play areas
Hawkers zone
Small congregation spaces
Parking

8. LANDSCAPE CHARACTER



9. URBAN RESPONSE



ROAD SIDE GREENS

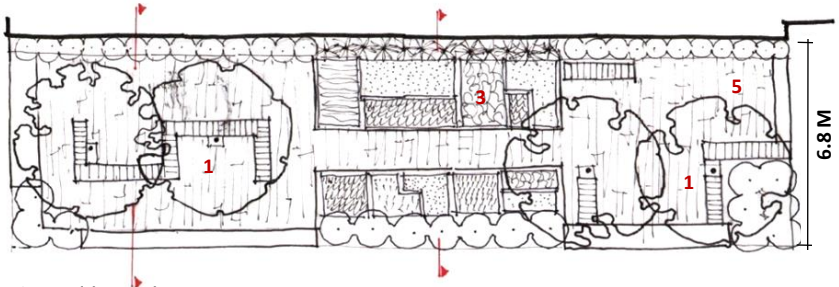
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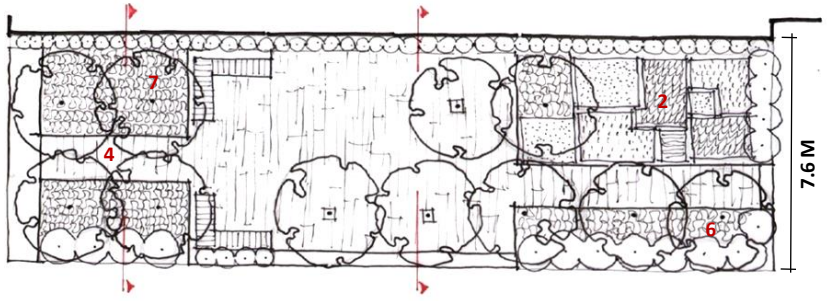
27M /39 M wide road



16 M wide road



27M wide road

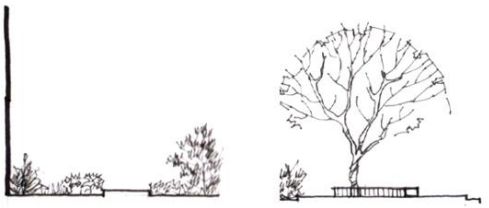


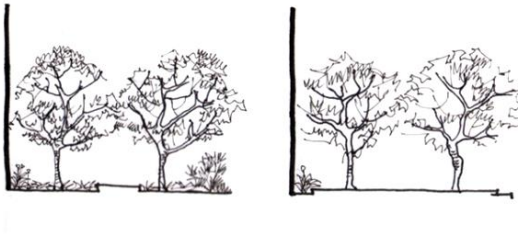
39M wide road



LEGEND

1. Sit out
2. Herb court
3. Flower beds
4. Tree courts
5. Play areas
6. Storied Plantation
7. Grass courts





June
2013