Regional setting

i) Location
ii) Ecological boundaries
iii) Vegetation

Regional settings
North most part of *Konkan* lowlands of Maharashtra

Climate
Tropical warm and humid

Annual rainfall
2293.4 mm

Temperature variation
17 ^{0}C to 34 ^{0} C

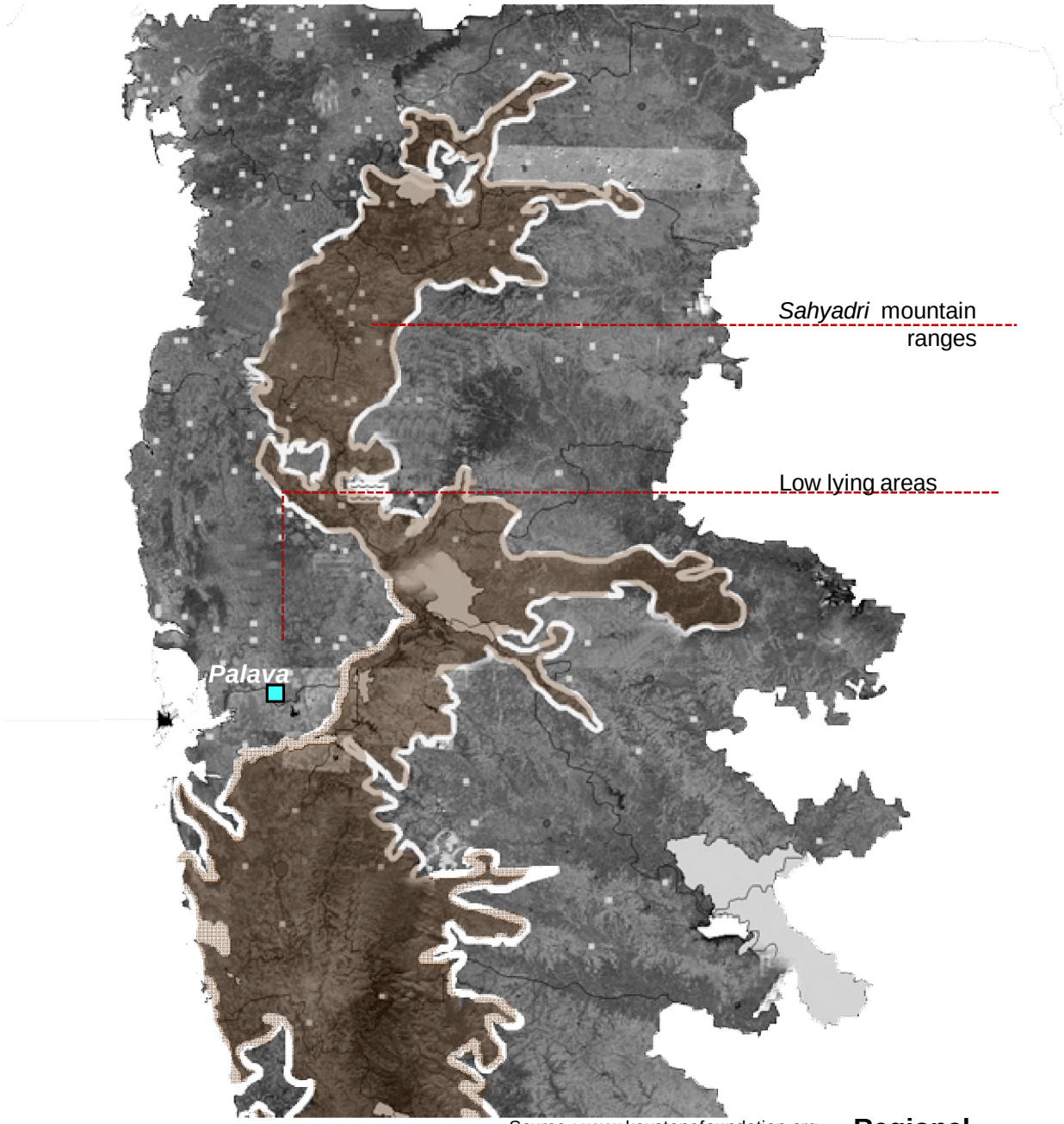
Rock type
Basaltic rock

Soil type
Coarse, medium black, clayey, shallow soils

Main River
Ulhas river

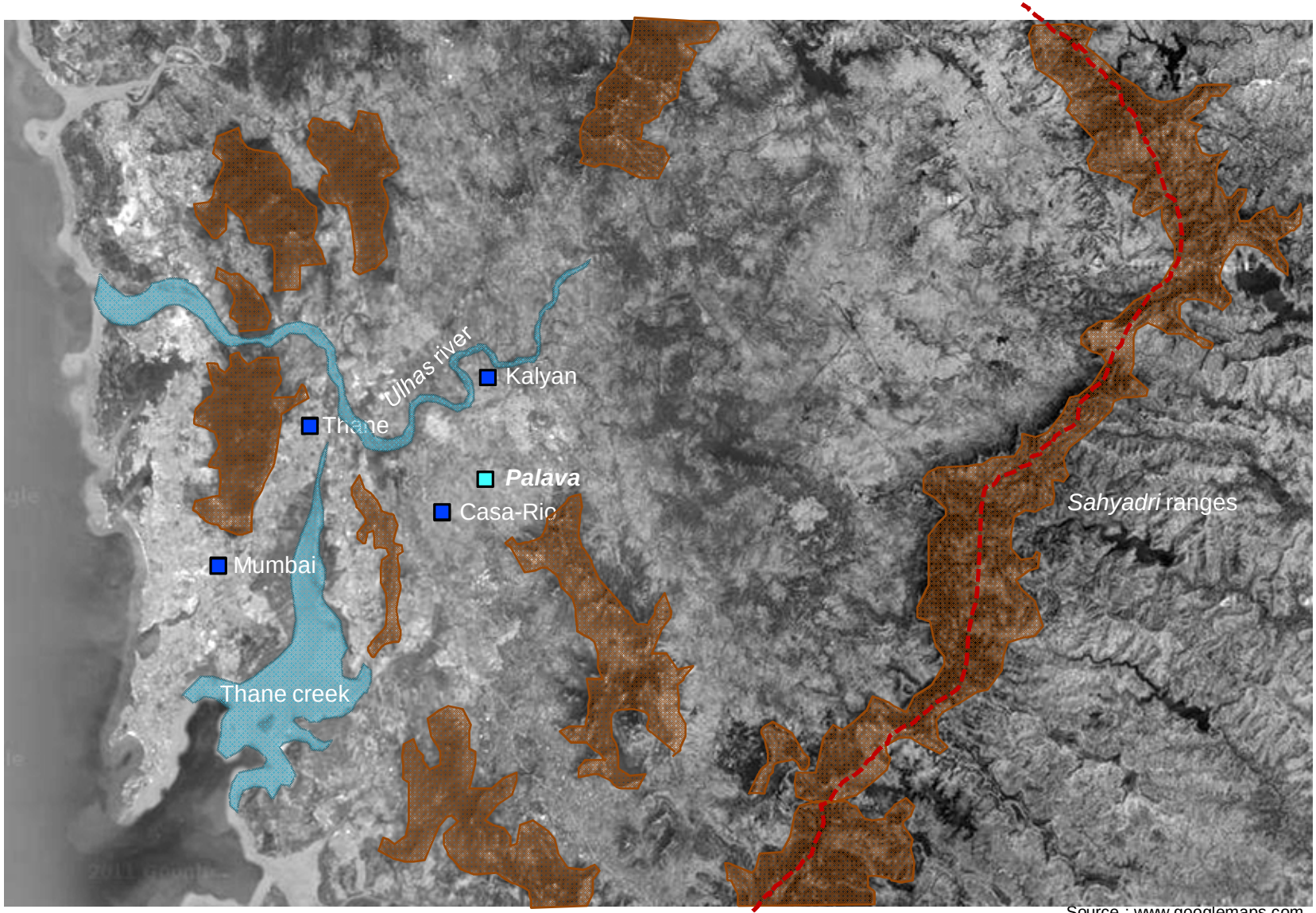
Agriculture
Mainly paddy cultivation

Other traditional occupation
Stone cutting



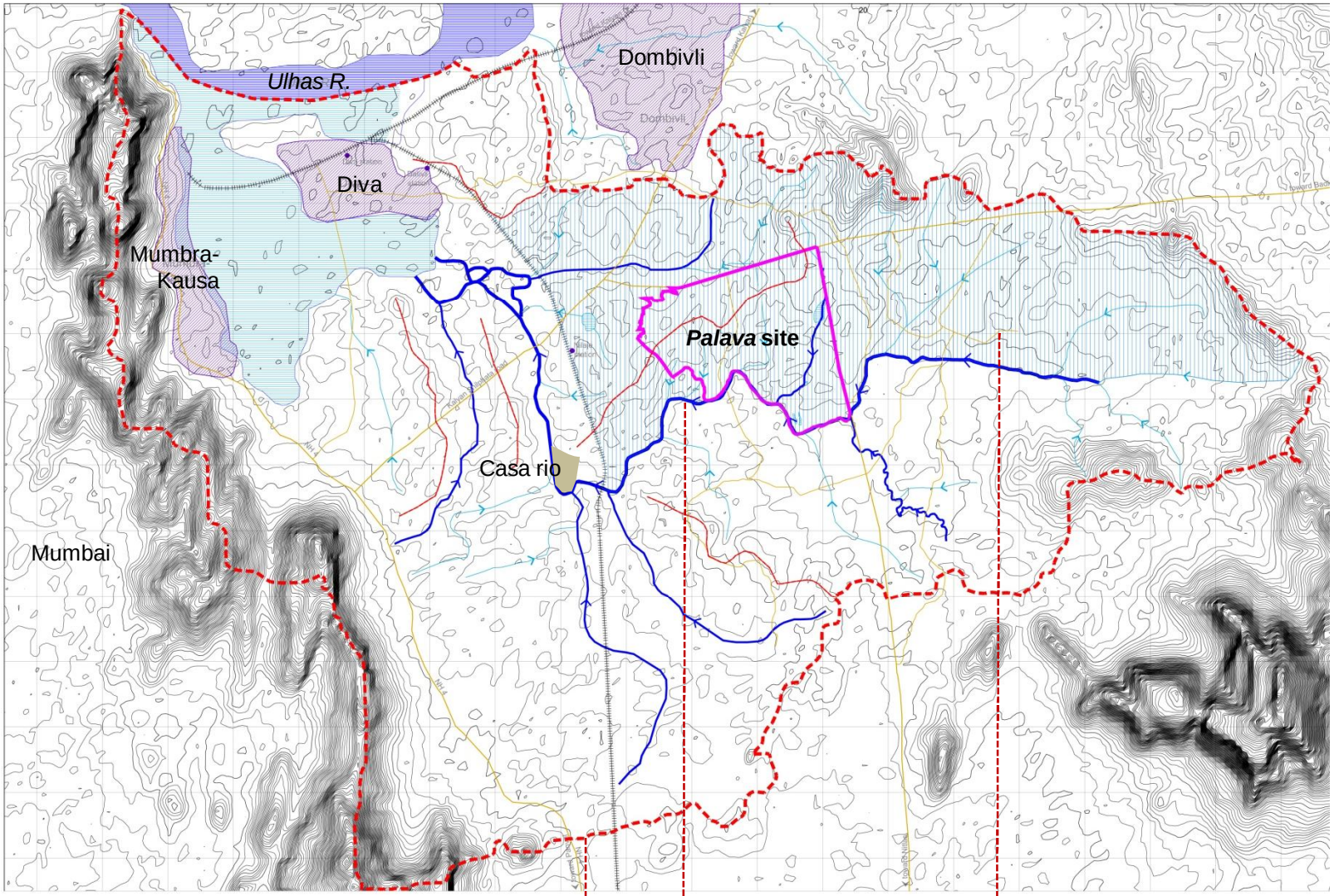
Source : www.keystonefoundation.org

Location **Regional setting**



Source : www.googlemaps.com

Location **Regional setting**



Area of sub-catchment- 8071.60 acres
Area of *Palava* site- 1329.98 acres (16.5 % of sub- catchment area)

Ecological boundary **Regional setting**

Forest type
Intermediate deciduous teak forest

Tectona – Terminalia – Adina – Anogeissus series

Deciduous multistoried forest
Height attained by top canopy :
15 – 25 m

Top storey

Tectona grandis
Terminalia tomentosa
Terminalia bellerica
Adina cordifolia
Anogeissus latifolia
Diospyros melanoxylon
Ougeinia oojeinensis
Lagerstroemia parviflora
Lannea coromandelica
Grewia tiliaefolia
Schleichera oleosa
Madhuca indica
Bombax ceiba
Schleichera oleosa
Albizia procera
Pterocarpus marsupium
Dalbegia latifolia
Miliusa tomentosa
Bridelia squamosa
Stereospermum personatum

Middle storey

Acacia catechu
Bridelia retusa
Morinda tinctoria
Buetea monosperma
Wrightia tinctoria
Casearia tomentosa
Bauhinia racemosa
Emblica officianalis
Elaeodendron glaucum
Aegle marmelos
Bauhinia purpurea
Kydia calycina
Careya arborea
Grewia tiliaefolia
Mallotus philippensis

Under storey

Gardenia resinfera
Wrightia tomentosa
Ziziphus rugosa
Xeromphis spinosa
Meyna laxiflora
Gardenia latifolia
Carrisa congesta
Flacourita indica
Holarrhena antidysentrica
Helicteres isora
Lantana camara
Carvia callosa
Cassia tora
Azanza lampas
Woodfordia fruticosa
Euphorbia nivulia

Bamboo: *Dendrocalamus strictus*

Source : Forest ecology by G . S. Puri



Intermediate deciduous teak forest
(Sanjay Gandhi National Park)



Existing condition on site

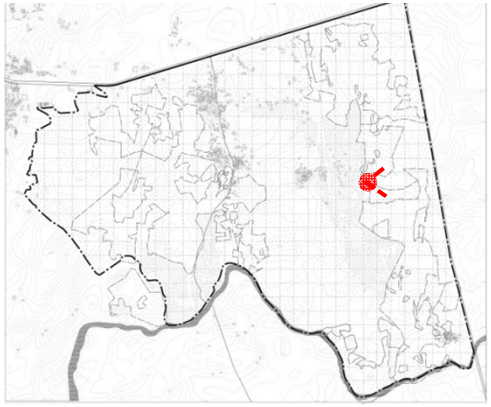
Location **Regional setting**

Site study

Landscape typologies

i) Stone quarry
ii) Rock type
iii) Soil excavation
iv) Soil type
v) River and its edges
vi) Marshes and other water bodies
vii) Trees
viii) Grasses
ix) Agriculture
x) Wild flowers





Stone quarry, Rock types, Soil excavation, Soil type


1


2

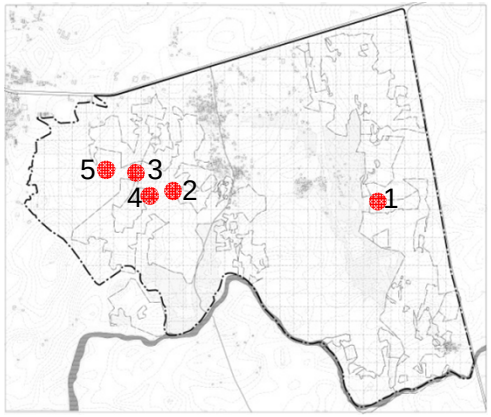

3


4


5


5

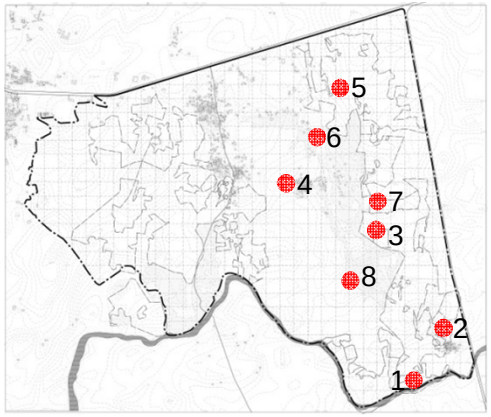
1. Deep, active quarry
2. Shallow, active quarry
3. Abandoned quarry, recent vegetation
4. Shallow, abandoned quarry, established vegetation
5. Deep, abandoned quarry, established vegetation



Stone quarry

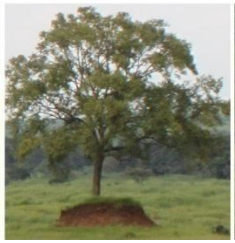


1. Bed rock near river
2. Fissured rock
3. Fissured rock
4. Boulders
5. Boulders along a quarry
6. Fissured rock
7. Rocky strata visible in the quarry
8. Boulders along a quarry



Rock types


1


2

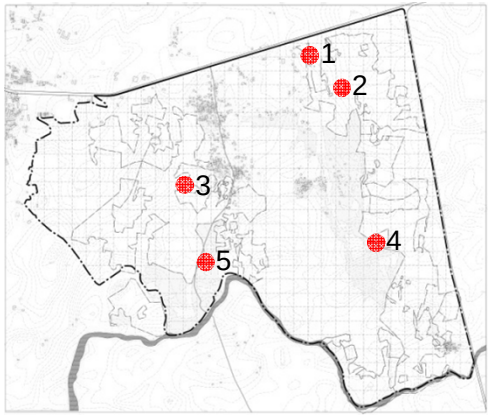

2


3


4


5

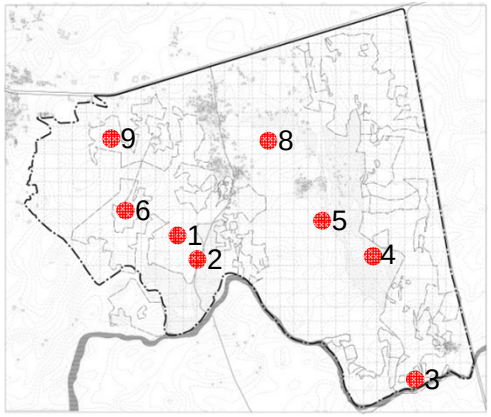
1. Soil excavation
2. Deep soil excavation.
3. Deep soil excavation
4. Shallow soil excavation
5. Brick kiln



Soil excavation



1. Slightly deep soil
2. Slightly deep soil with humus
3. Shallow soil with rock below
4. Shallow soil with boulders
5. Slightly deep soil in the grassland
6. Soil in the fields
7. Shallow soil along trail
8. Clayey soil along the stream
9. Soil in marshy areas

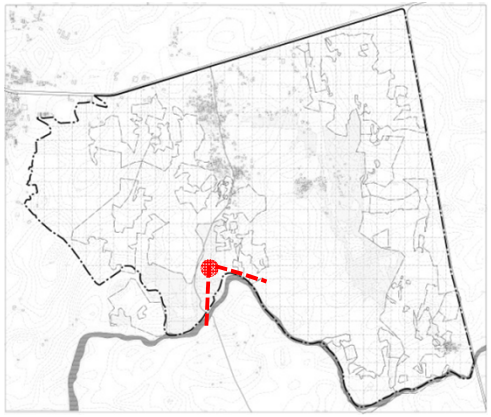


Soil types

Soils of undulating and rolling lands:
Extremely shallow, excessively drained loamy soils with severe erosion.
Associated with slightly deep, moderately well drained loamy soils with moderate erosion.

Landscape typologies **Site study**

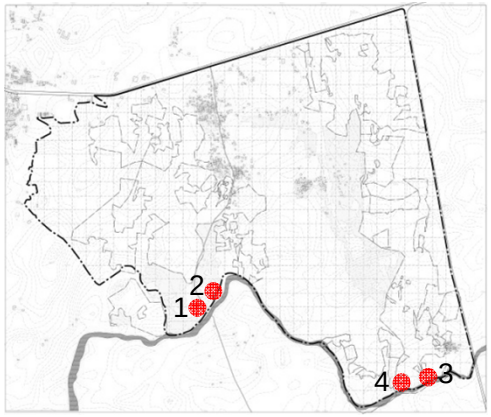




River and its edges, Marshes and other water bodies



1. River edge, perennial grasses along.
2. River edge, perennial grasses along
3. River edge with exposed bed rock
4. Bedrock cut vertically with seasonal grasses

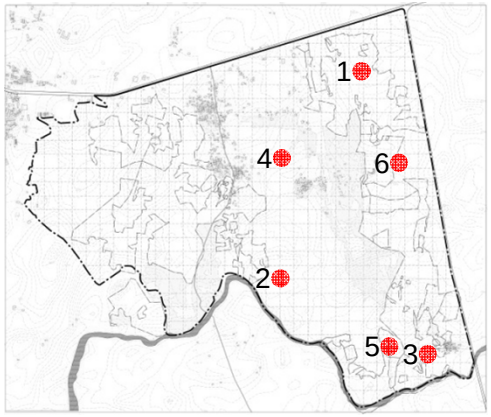


River and its edges



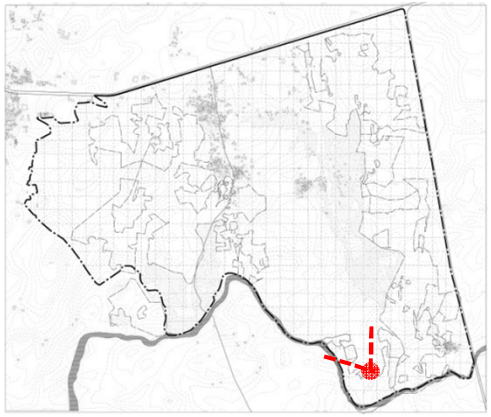
1 2 3 4 5 6

1. Abandoned quarry filled with rainwater
2. Excavated soil filled with water
3. Shallow puddles along river
4. Marsh along paddy fields
5. Shallow water body
6. Marsh: *Khuni* pond



Marshes and other water bodies





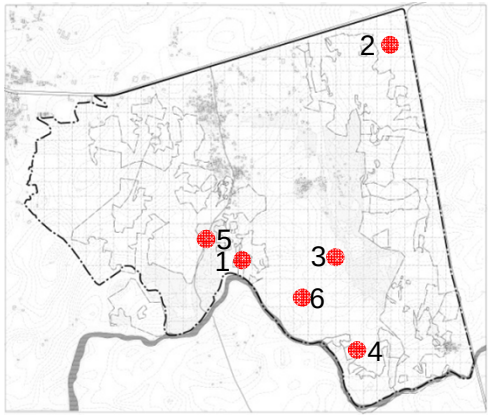
Trees

Landscape typologies **Site study**



1 2 3 4 5 6

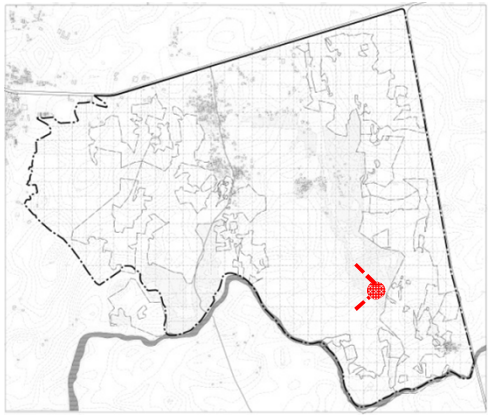
1. Grove along river edge
2. Grove along marsh
3. Tree within grassland
4. Grove near river edge
5. Isolated tree in fields
6. Birds' nests



Trees

Landscape typologies **Site study**



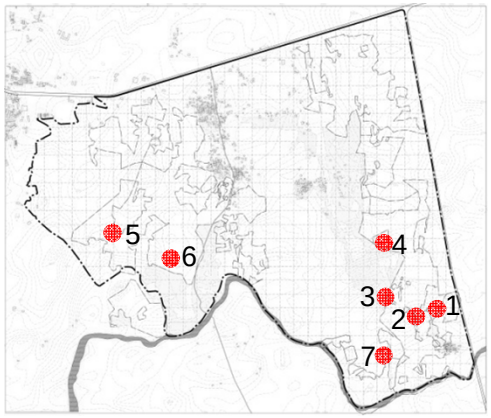


Grasses

Landscape typologies **Site study**



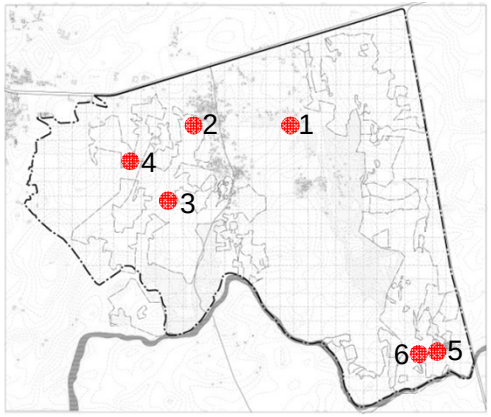
1. Seasonal grasses
2. Seasonal grasses
3. Seasonal grasses
4. Seasonal grasses
5. Seasonal grasses
6. Seasonal grasses
7. Perennial grasses along marsh



Grasses



1. Paddy fields
2. Paddy fields
3. Paddy fields
4. Seasonal vegetable
5. Seasonal vegetable
6. Seasonal vegetable



Agriculture

Landscape typologies **Site study**



Wild flowers

Landscape typologies **Site study**

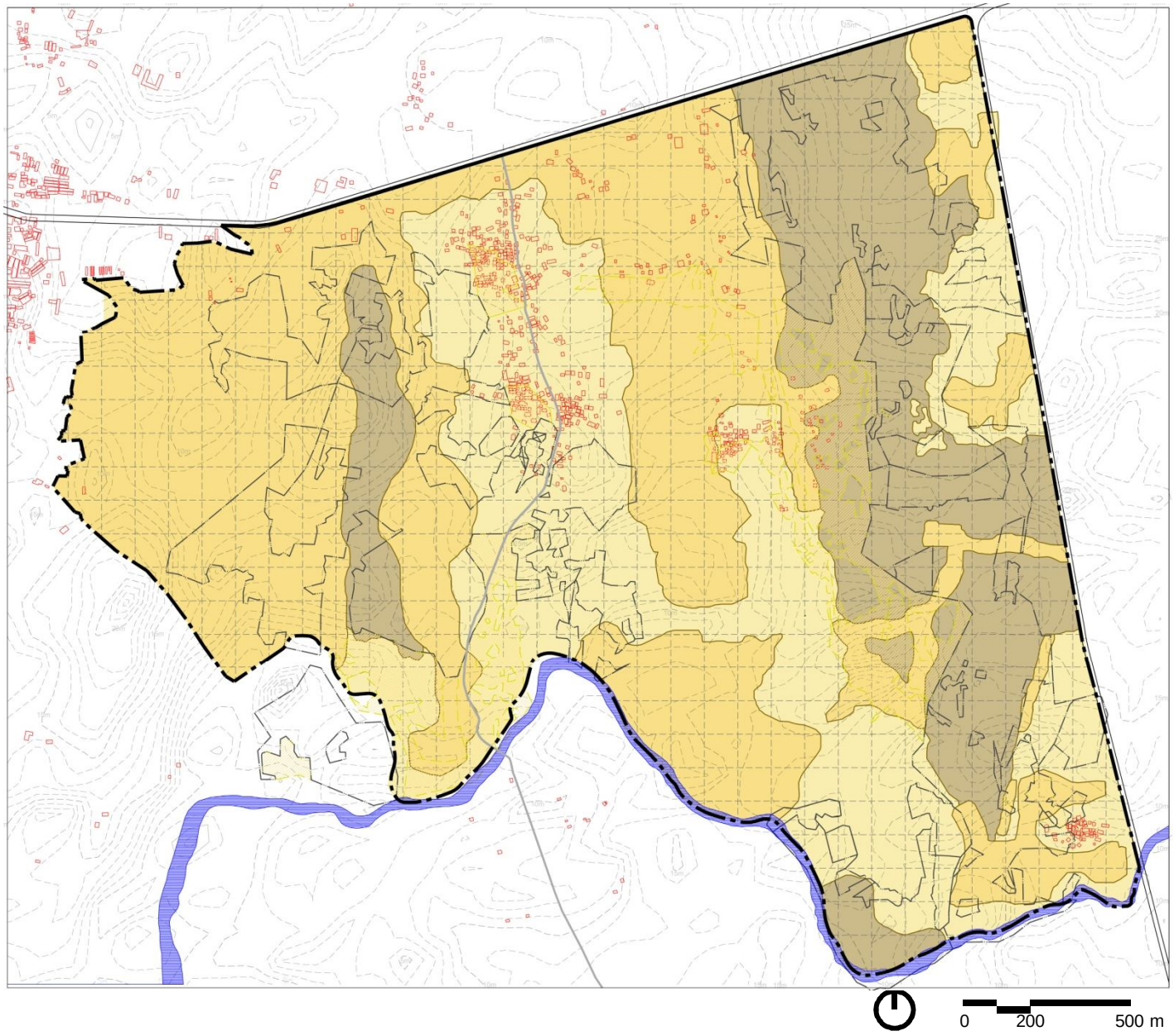


Wild flowers

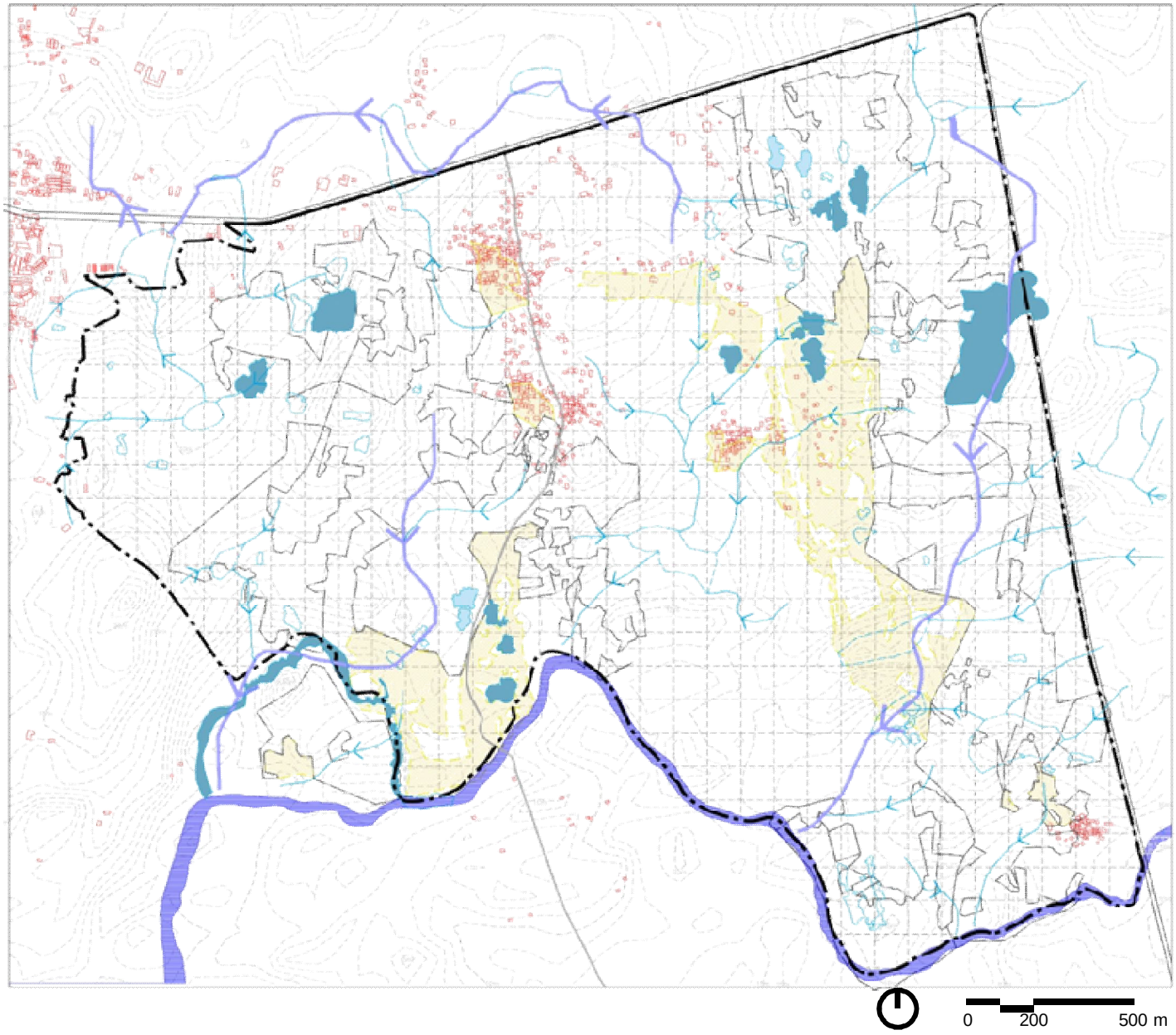
Landscape typologies **Site study**

Analysis

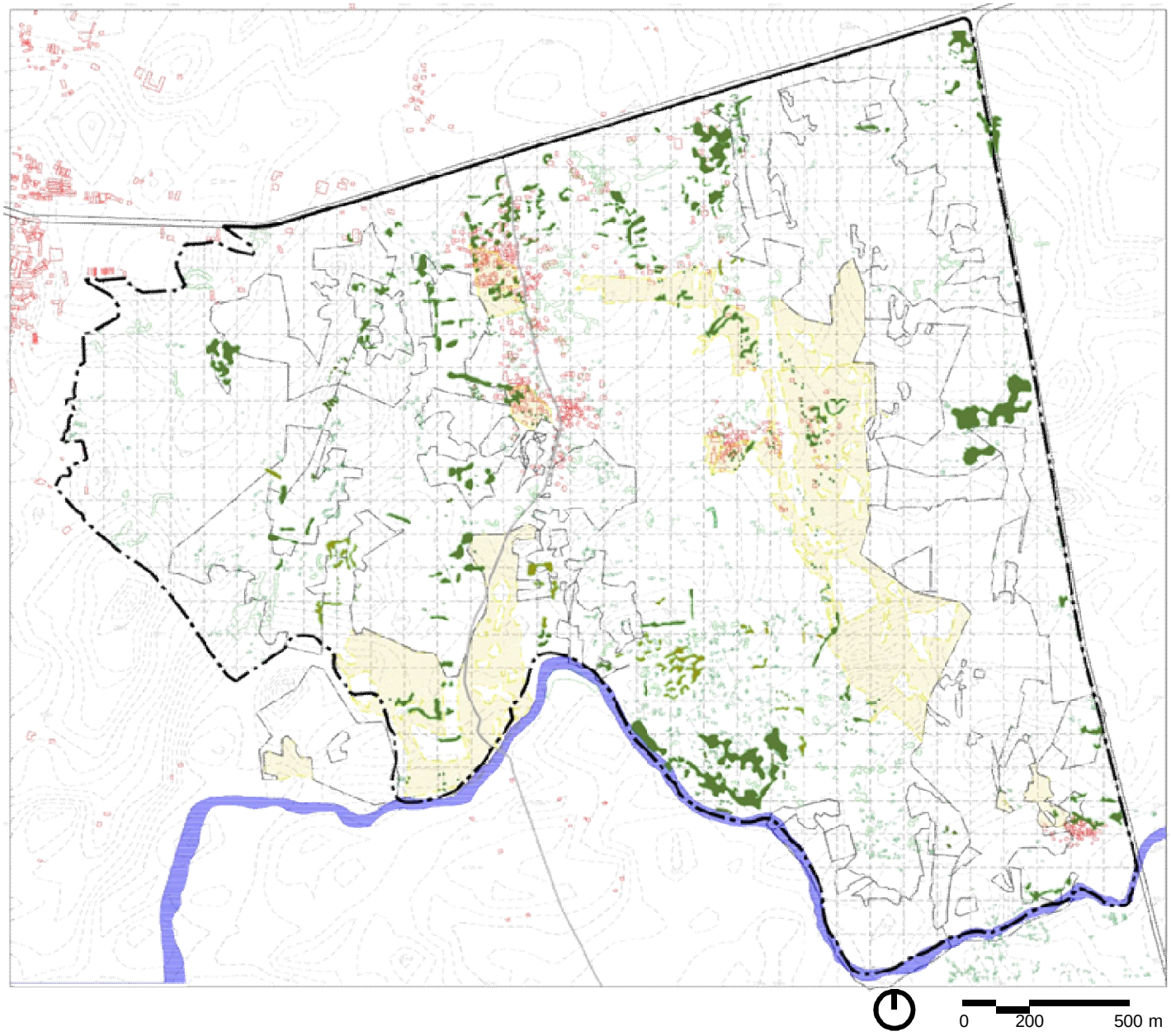
i) Soils
ii) Hydrology
iii) Vegetation
iv) Trees
v) Settlements



Soils **Analysis**



Hydrology **Analysis**

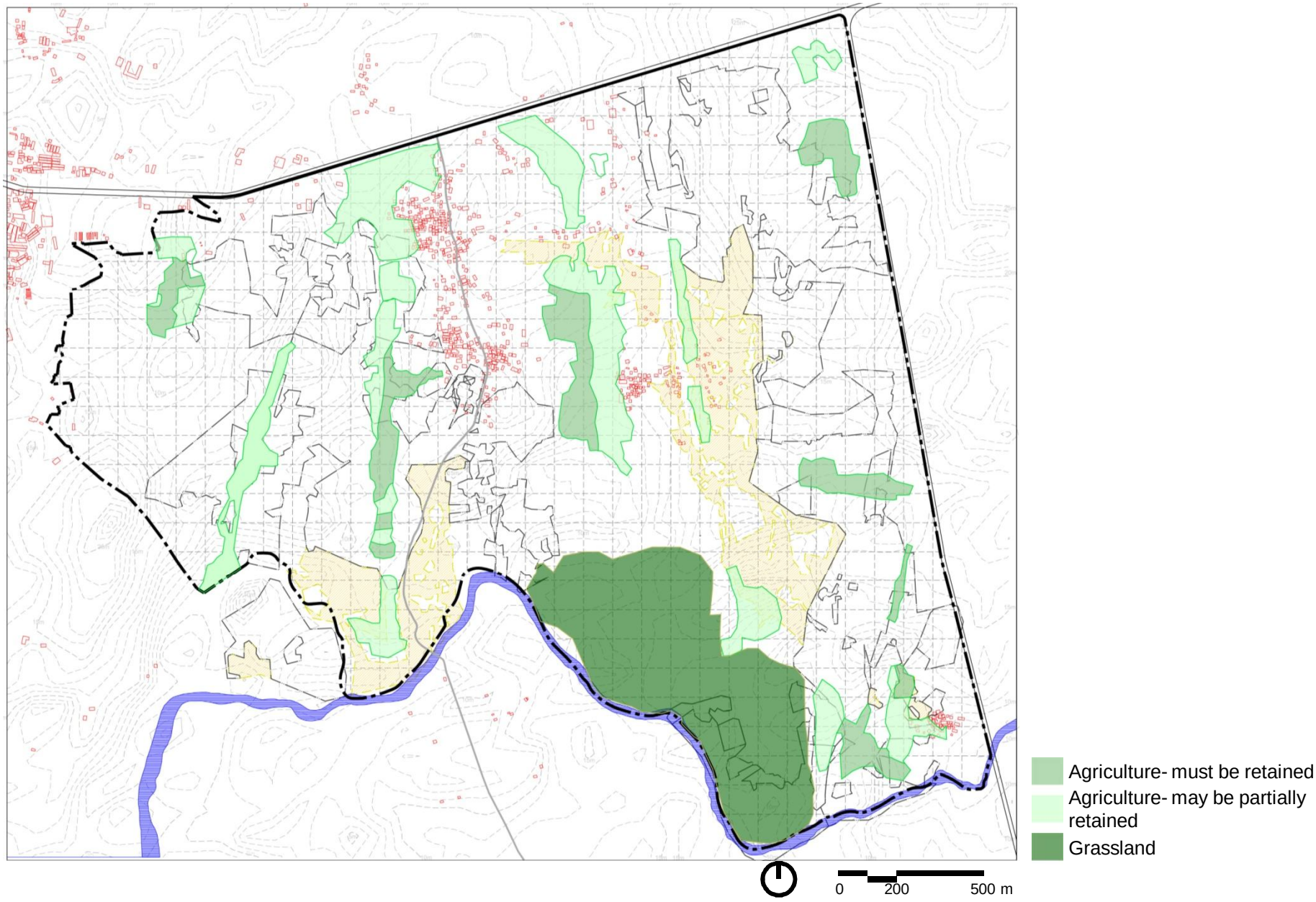


Must be retained

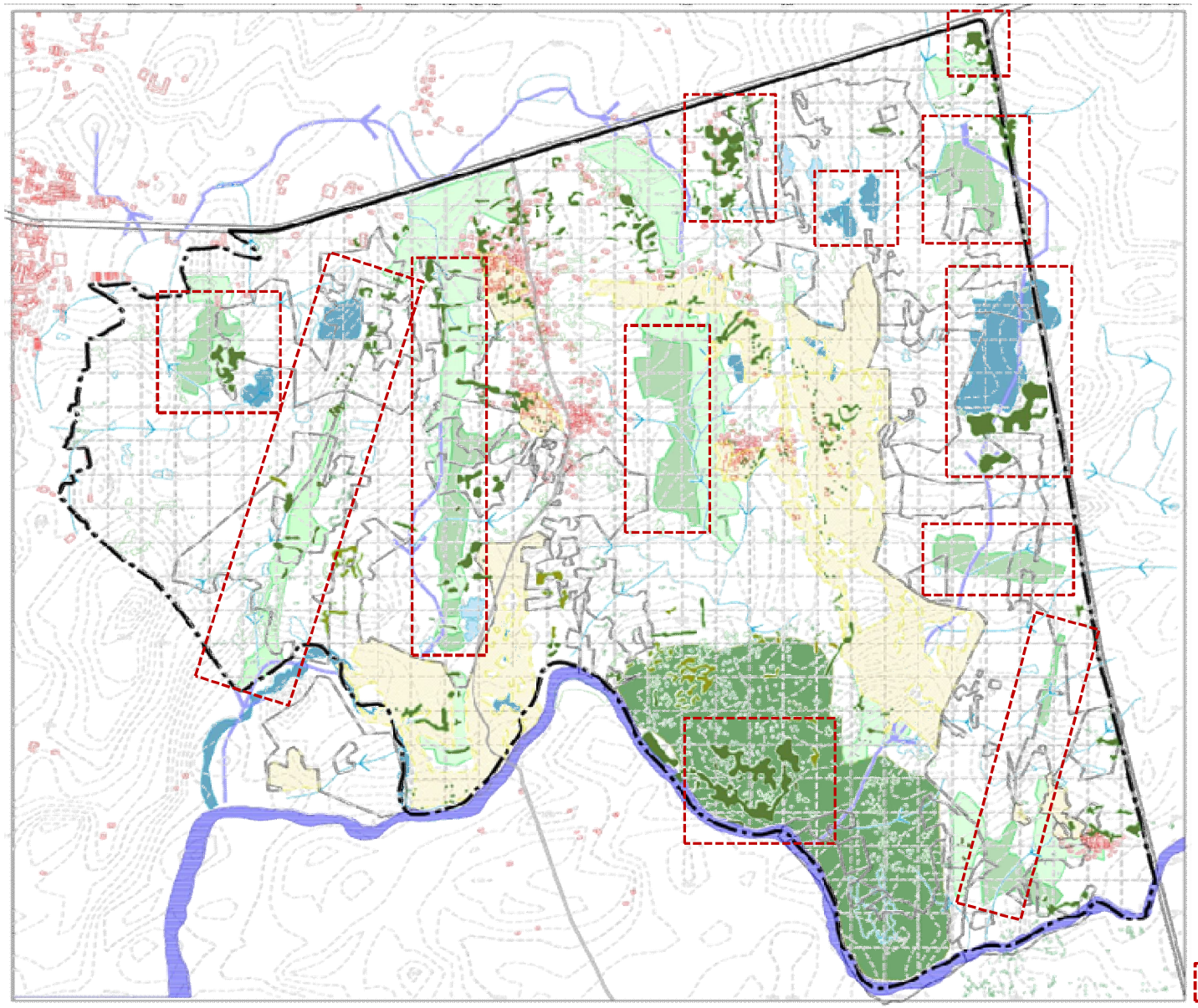
May be retained

Needs to be examined in detail. All large trees to be retained

Trees **Analysis**



Agriculture and grasses **Analysis**

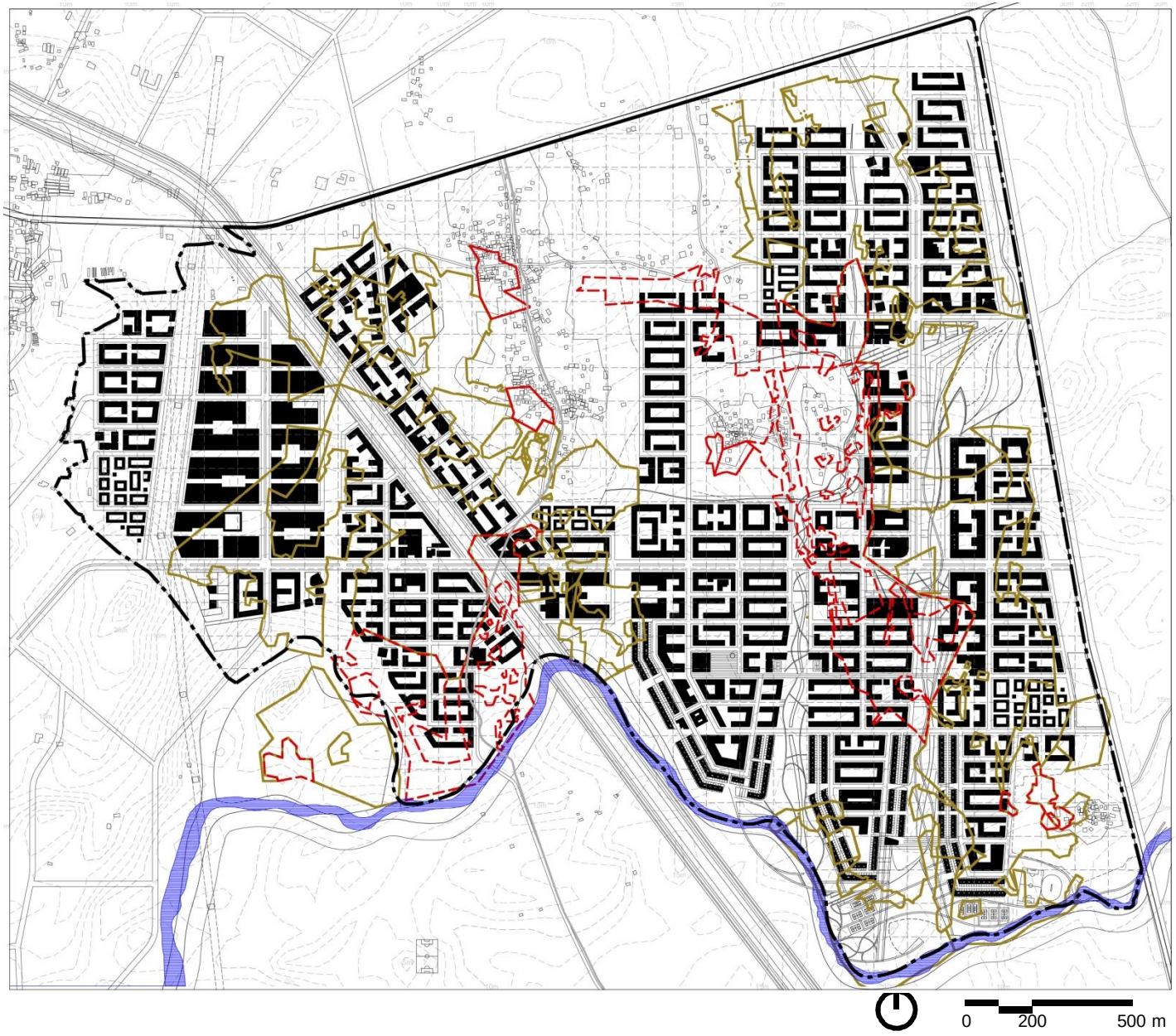


Areas need to be retained

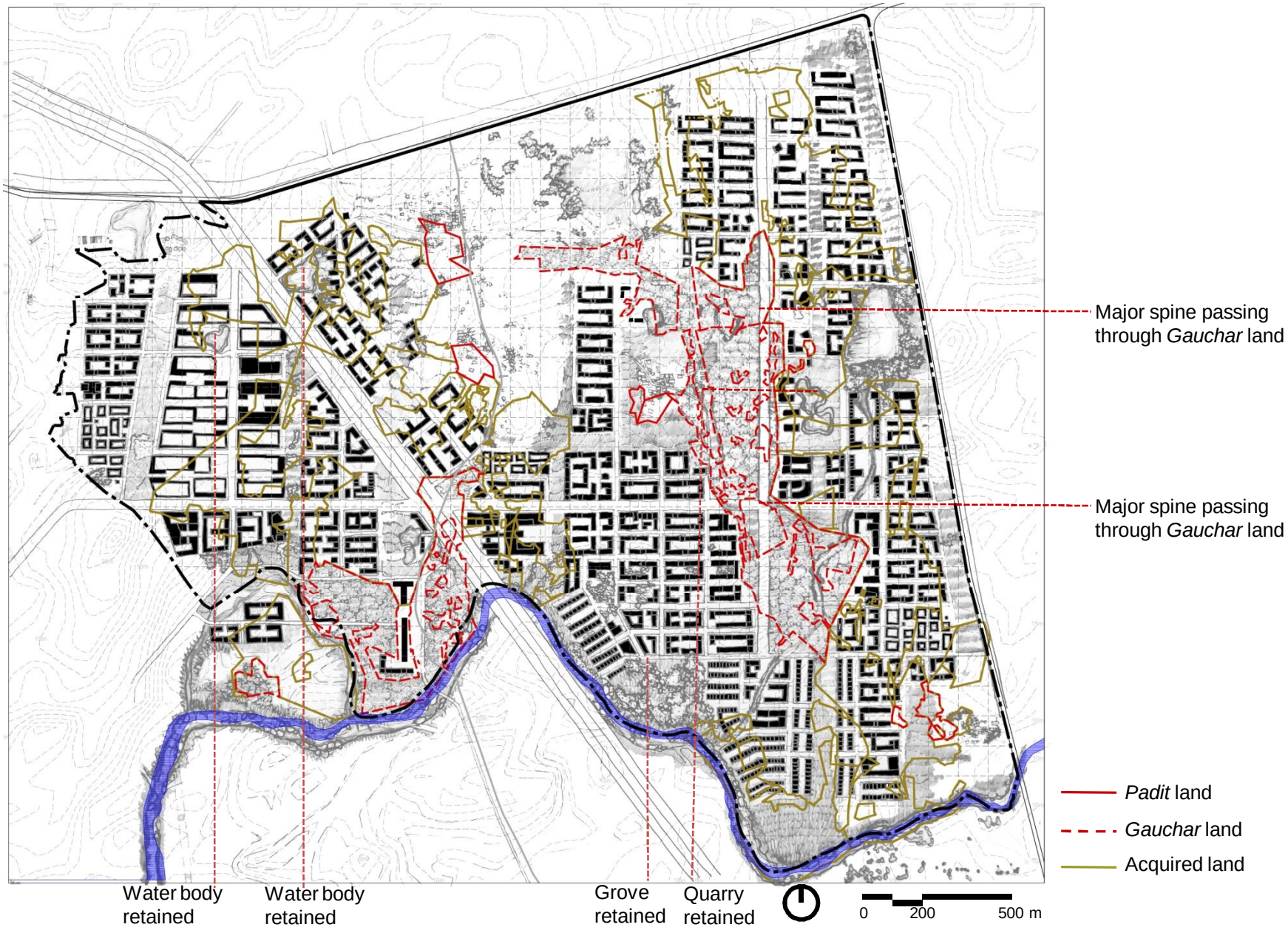
Analysis

Master plan comparisons

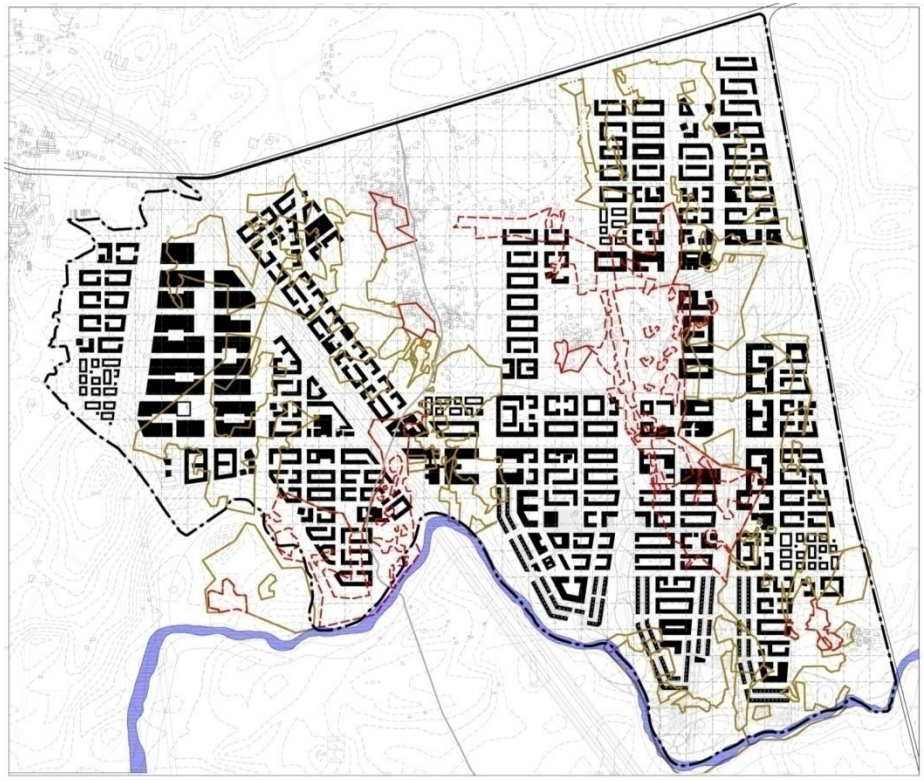
i) Sasaki master plan
ii) Modified Sasaki master plan- option 01
iii) Modified Sasaki master plan- option 02
iv) Reworked master plan



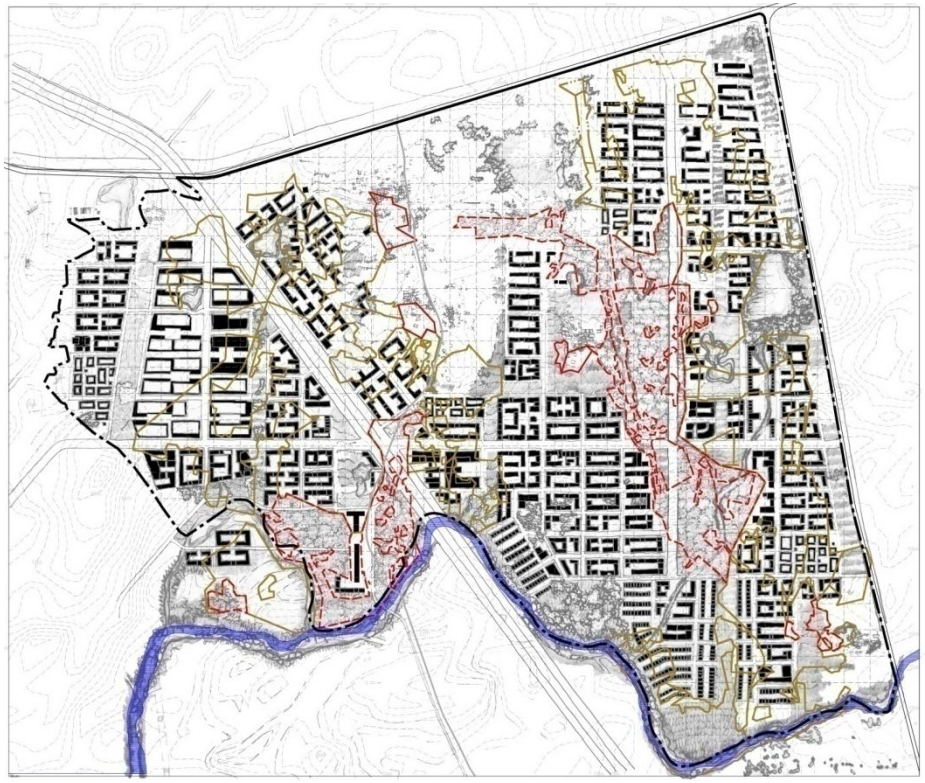
Sasaki master plan **Master plan**



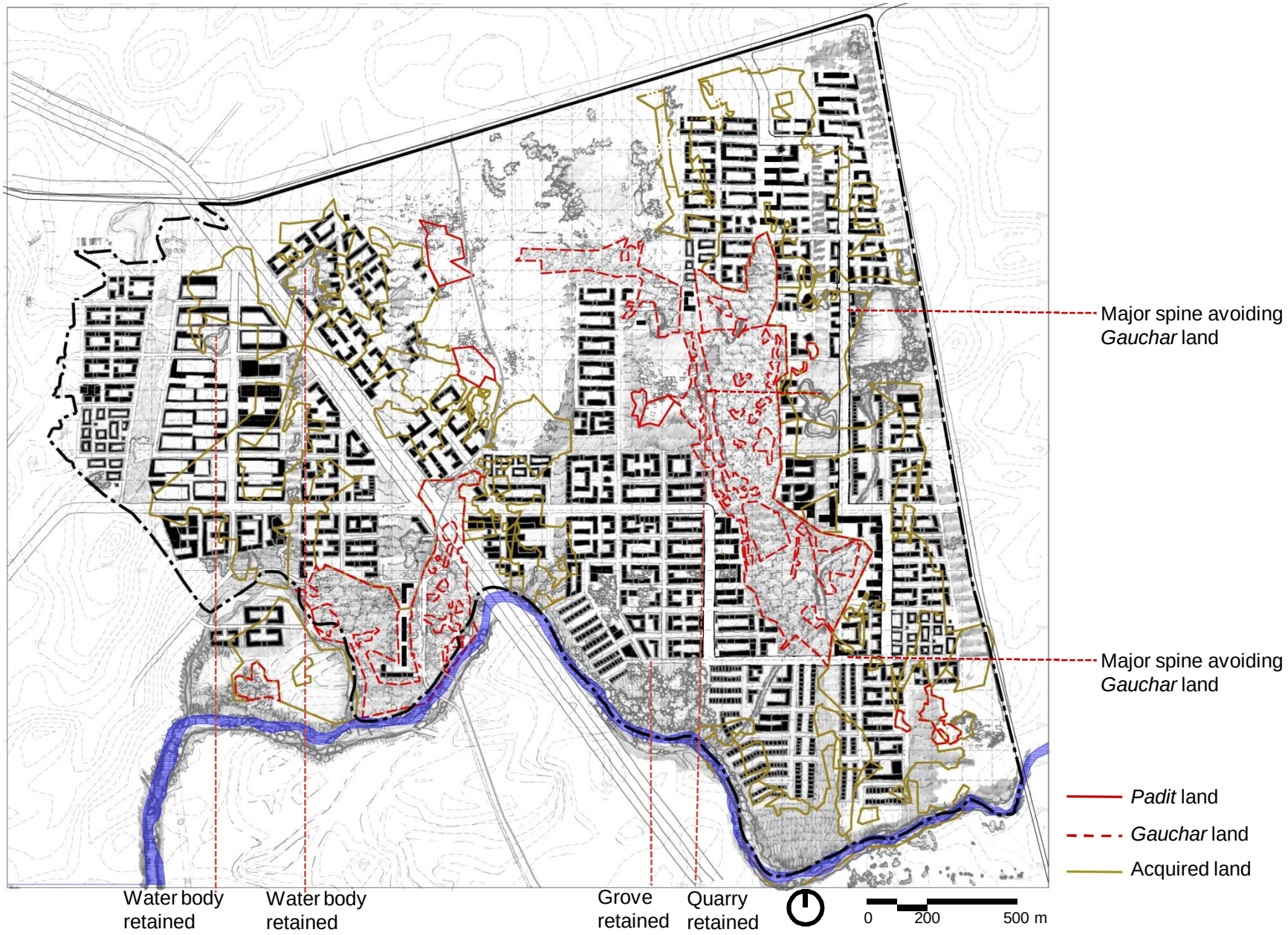
Modified Sasaki master plan- option 01, roads passing through *Gauchar* land, building blocks removed from *Gauchar* land **Master plan**



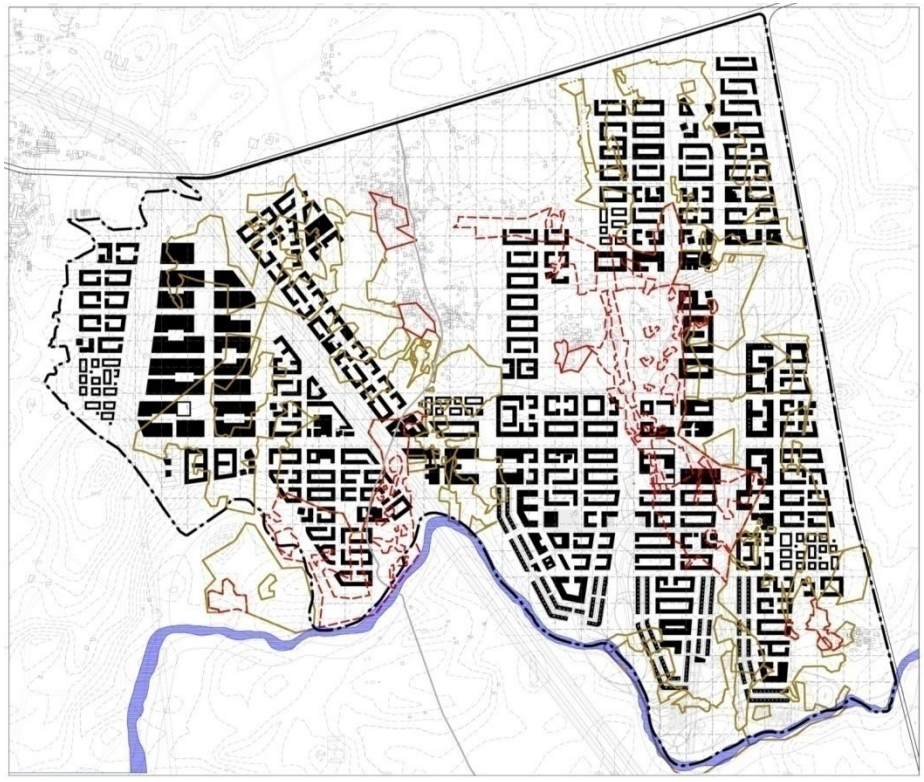
Sasaki master plan



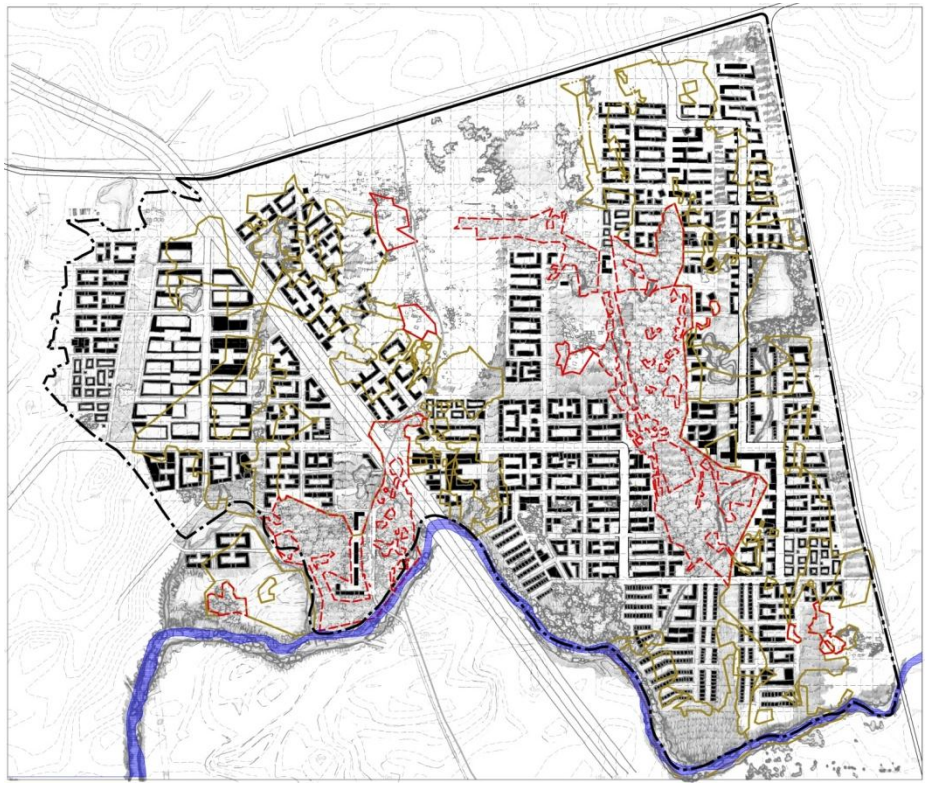
Modified Sasaki master plan- option 01, roads passing through *Gauchar* land, building blocks removed from *Gauchar* land



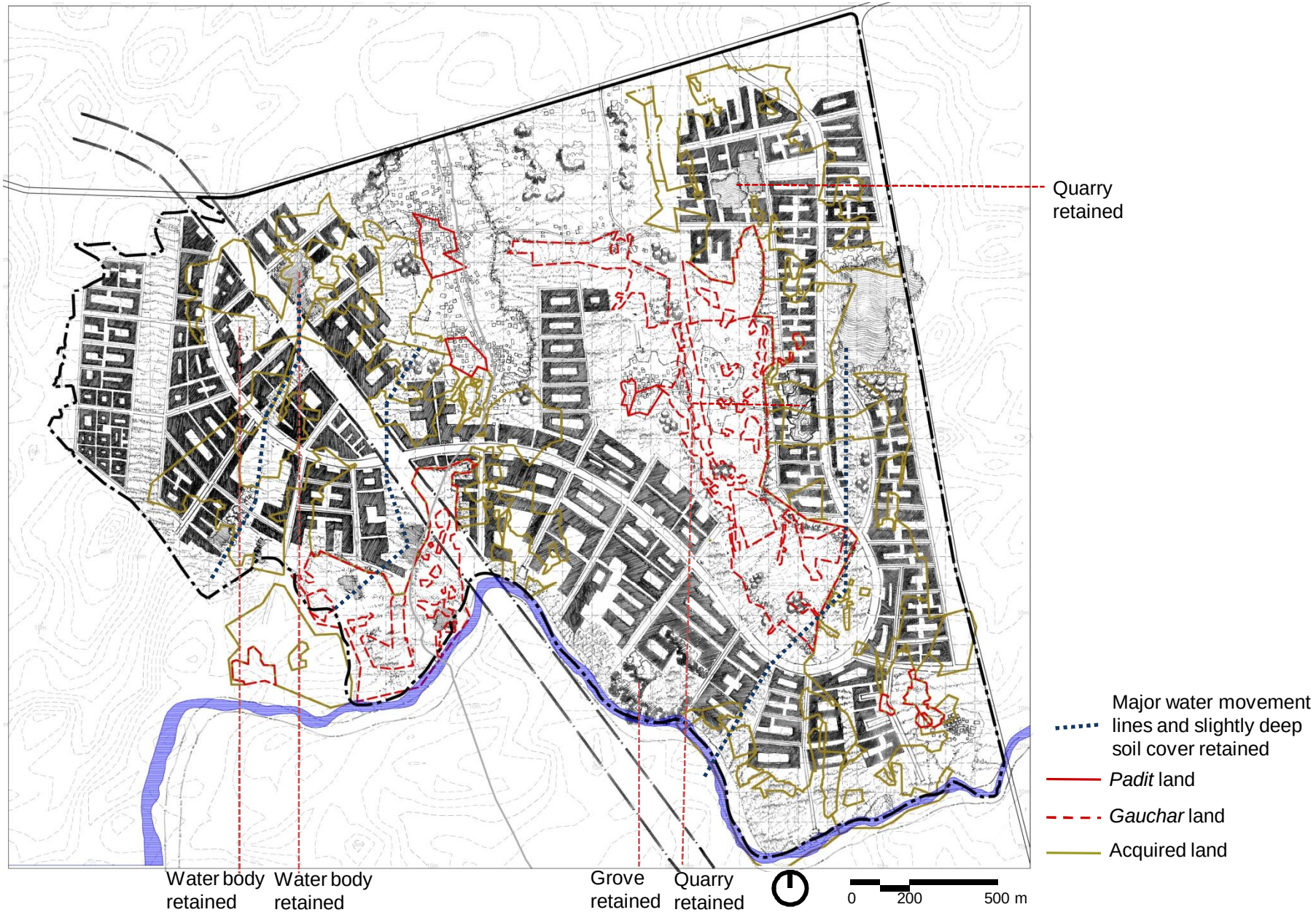
Modified Sasaki master plan- option 02, roads and building blocks not cutting through *Gauchar* land **Master plan**



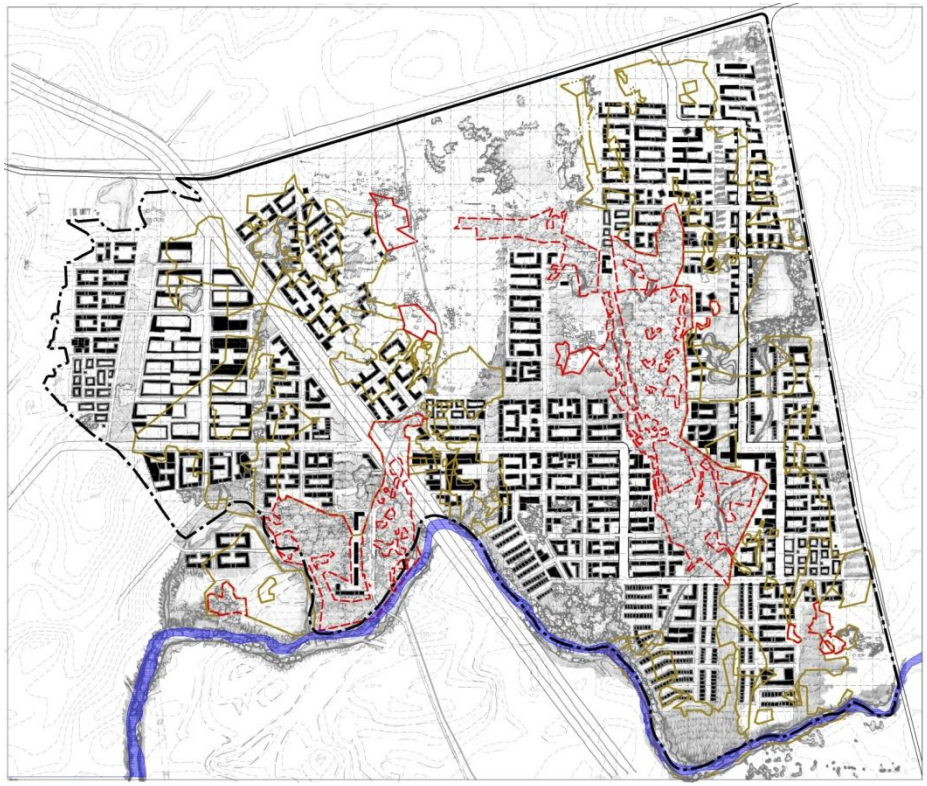
Sasaki master plan



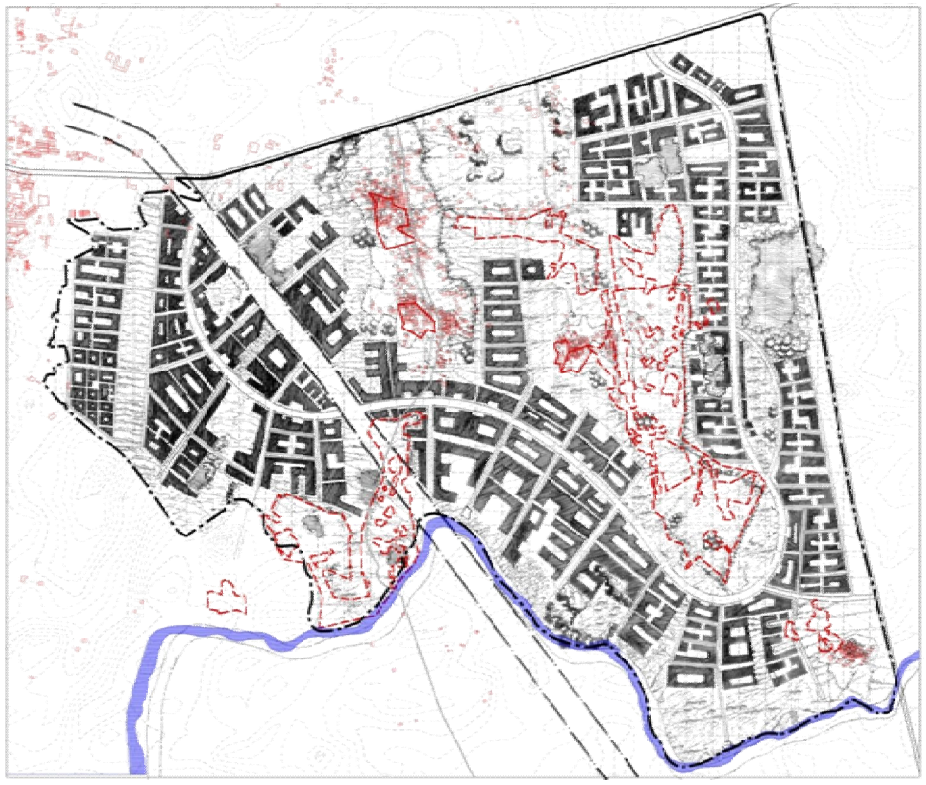
Modified Sasaki master plan- option 02, roads and building blocks not cutting through *Gauchar* land



Reworked master plan **Master plan**



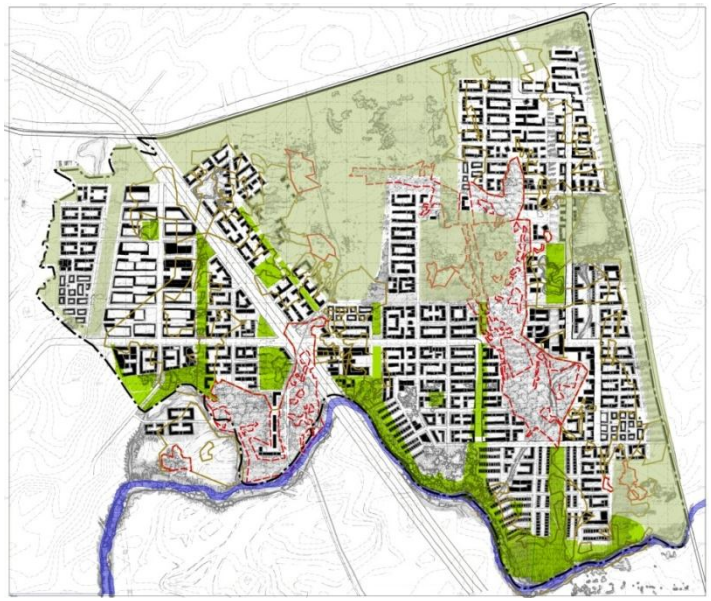
Modified Sasaki master plan- option 02, roads and building blocks not cutting through *Gauchar* land



Reworked master plan



Sasaki master plan



Modified Sasaki master plan- option 02, roads and building blocks not cutting through *Gauchar* land



Modified Sasaki master plan- option 01, roads passing through *Gauchar* land, building blocks removed from *Gauchar* land



Reworked master plan

Un-built area

Green spaces

Open spaces

Imagining landscapes



soil excavation
water
paddy field
grasses
soil





wildflowers
grasses
open ground
shallow soil





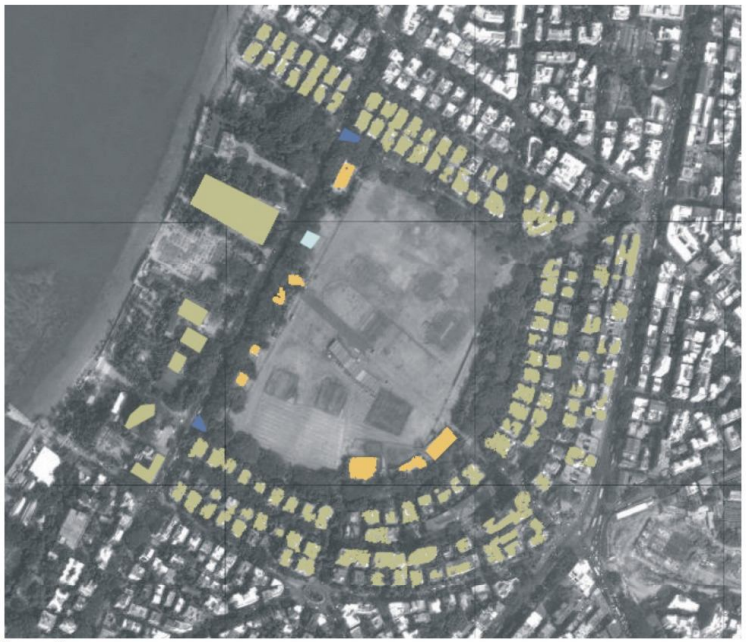
Deep quarry



Open Space Studies

i) Shivaji park
ii) Azad maidan
iii) Dadar Parsee colony
iv) Oval maidan

Shivaji Park



Area
100202.5sq.m

Scale
Large

Popularity
High



Multiple scale usage
Yes

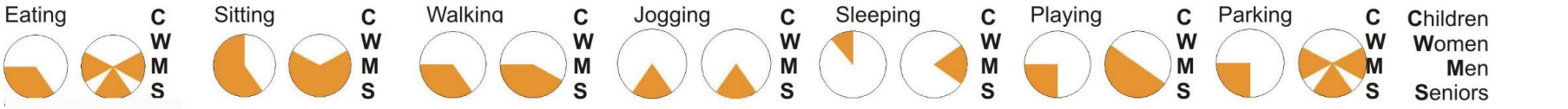
Degree of perceived enclosure
High

Land use map

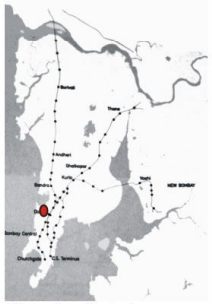
Residential Commercial Recreational Religious

Occupation map

Eating, Sitting, Walking/Jogging, Sleeping Parking



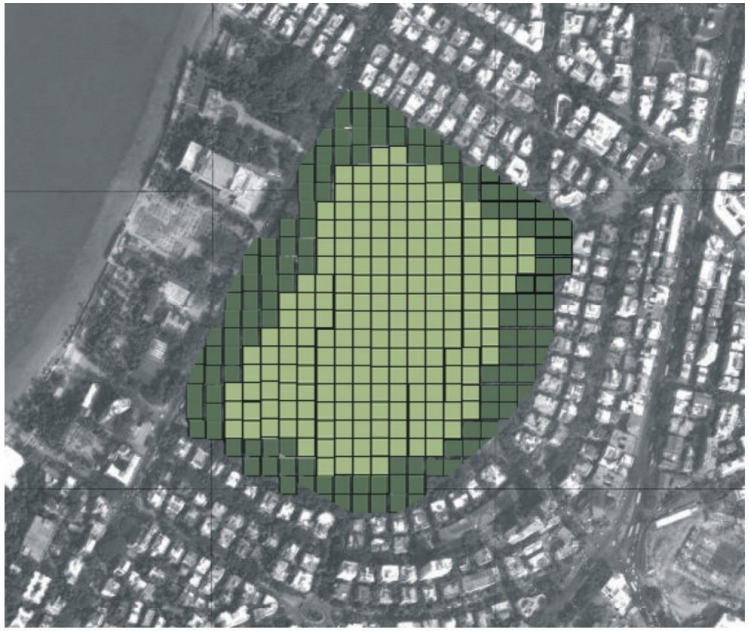
Children
Women
Men
Seniors



Key plan (n.t.s)



0L



Grain map



39.0% tree shade
scattered/dense groves

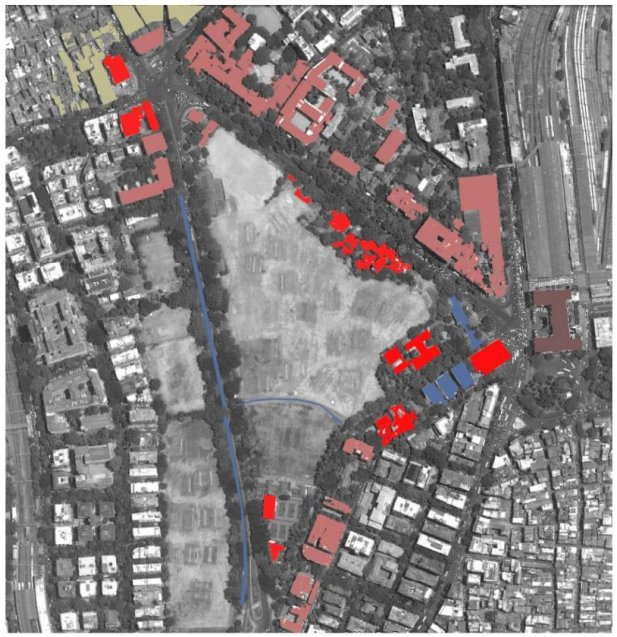


61.0% open space
maidan / lawn

Inferences



Azad Maidan



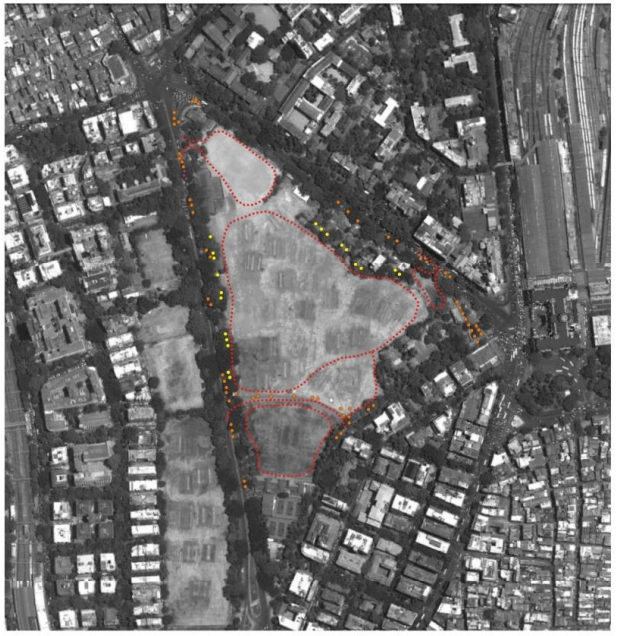
Land use map

Recreational Station Institutional
Art Deco Building (Corporate/commercial)

Area
Maidan-113864.8 sq.m
Club- 44282.9 sqm

Scale
Large

Popularity
High

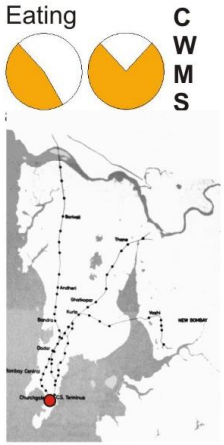


Occupation map

Eating, Sitting, Walking, Jogging, Parking, Sleeping

Multiple scale usage
Yes

Degree of perceived enclosure
High



Key plan (n.t.s)

0L



Grain map



33.0% tree shade
scattered/dense groves



77.0% open space
maidan / lawn



Edge Condition

Inferences

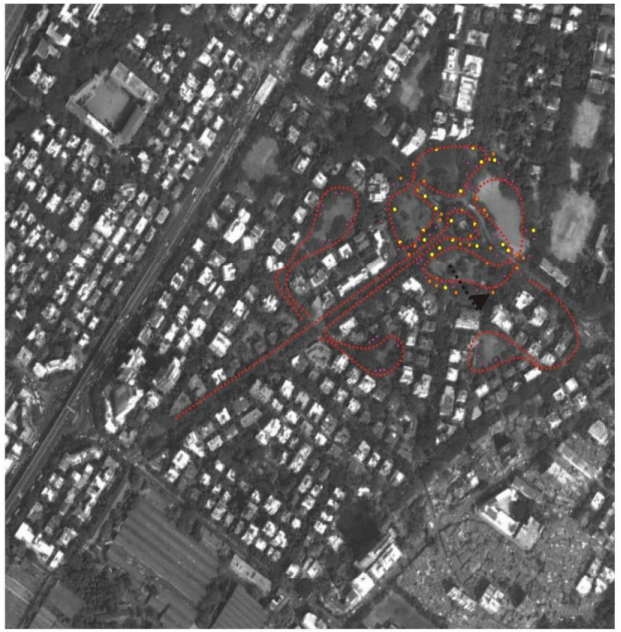
Dadar Parsee Colony



Area
34817sqm

Scale
Medium

Popularity
Medium



Multiple scale usage
Yes

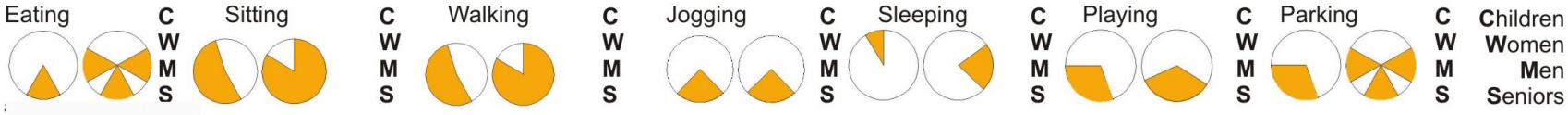
Degree of perceived enclosure
High

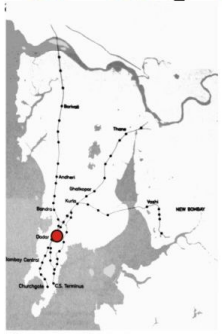
Land use map

Retail Residential Commercial Religious
Aminities

Occupation map

Eating, Sitting, Walking, Jogging, Parking, Sleeping





Key plan (n.t.s)
0L





Grain map



70.0% open space
maidan / lawn



30.0% tree shade
scattered/dense groves











Edge Condition

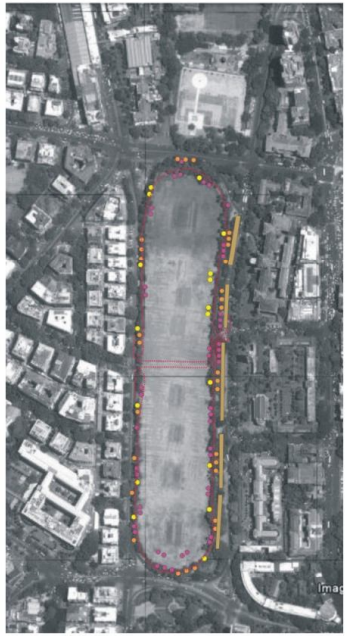
Inferences

Oval Maidan





Oval Maidan





Edge condition

Area
87308.0sq.

Scale
Large

Popularity
High

Paved Pathway across maidan



Oval Maidan



Multiple scale usage
Yes

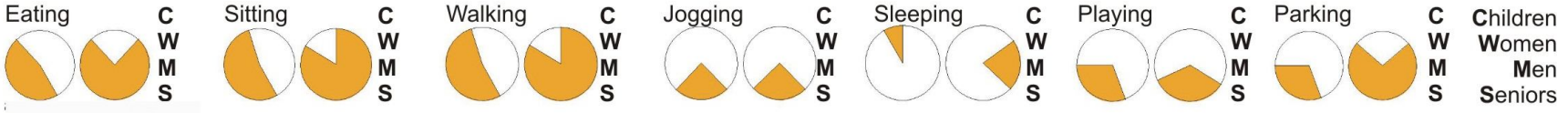
Degree of perceived enclosure
High

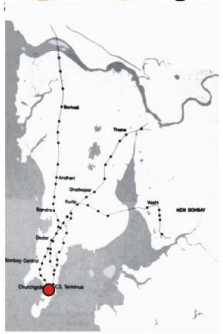
Land use map

Recreational Station Institutional
Art Deco Building (Corporate/commercial)

Occupation map

Eating, Sitting, Walking, Jogging, Parking, Sleeping





Key plan (n.t.s)



0L



Grain map



34.0% tree shade
scattered/dense groves



Edge Condition





66.0% open space
maidan / lawn



Edge Condition



Inferences

