Arab Academy for Science, Technology and Maritime Transport
College of Engineering and Technology
Department of Architecture and Environmental Design

AE 1111 | Architecture Design (1A) | Lecture 11
Site Analysis

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BENHA UNIVERSITY

Lecture 7

1. **Introduction**
   - Site Analysis Concept
   - Site Analysis Goals
   - Consequence Triangle
2. **Context**
   - Definition
   - Kinds of Information
3. **Symbolizing Sketch Elements**
4. **Examples**
5. **Homework #6**

Site Analysis

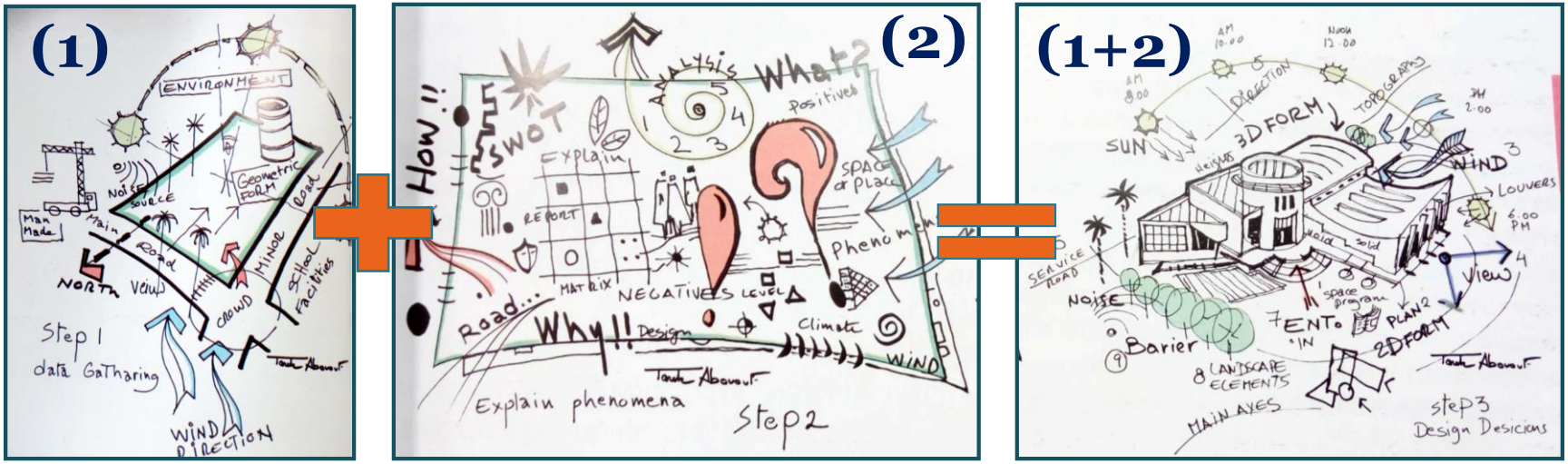
1

INTRODUCTION

INTRODUCTION

SITE ANALYSIS CONCEPT

Is the process of surveying or studying the existing environment and how it will influence the design and layout on the site.



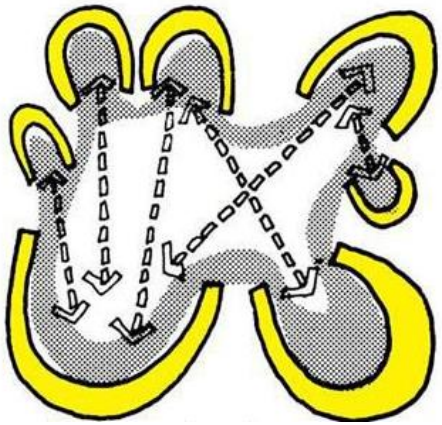
2

CONTEXT

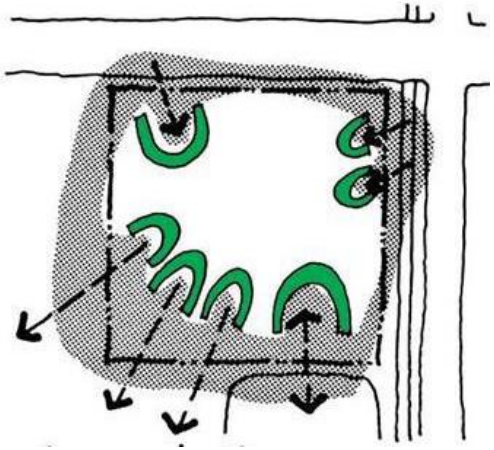
CONTEXT

DEFINITION

The whole situation, background or environment relevant to some event or product. In our case the product is the building.



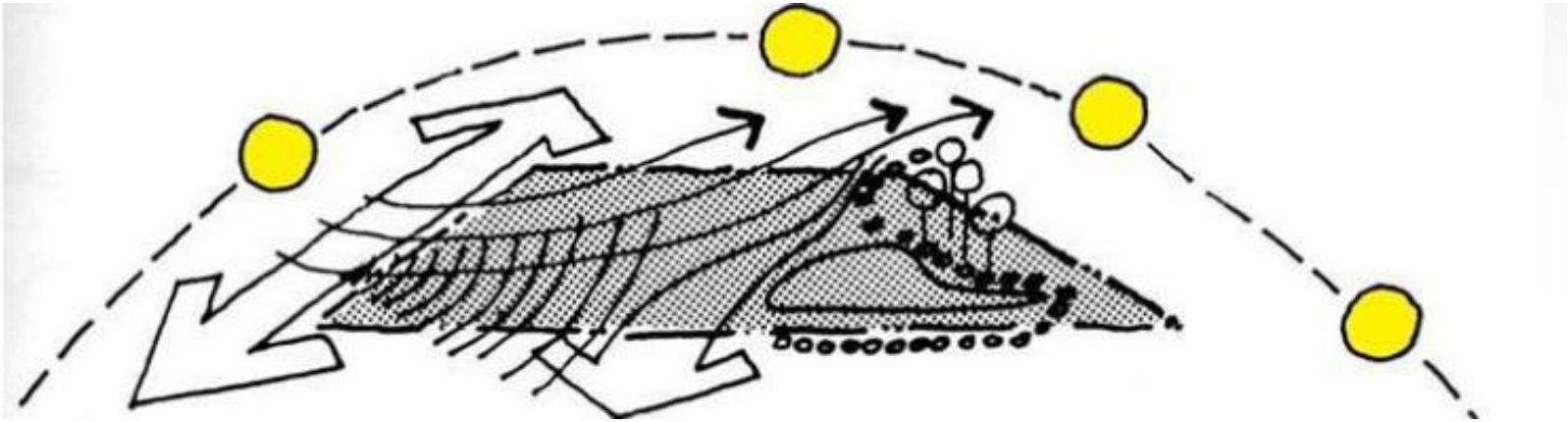
Placement of spaces due to internal functional relations



Placement of spaces due to internal external context

CONTEXT

KINDS OF INFORMATION



HARD DATA

(relates to physical site data)

- Site Location
- Dimensions
- Contours
- On Site features
- Climate
- Vegetation

SOFT DATA

(relates to human aspects of the site)

- View from site
- View to site
- Best approaches to the site
- Existence noise
- Existence of human activities
- Type of neighborhood

CONTEXT

KINDS OF INFORMATION

1. LOCATION

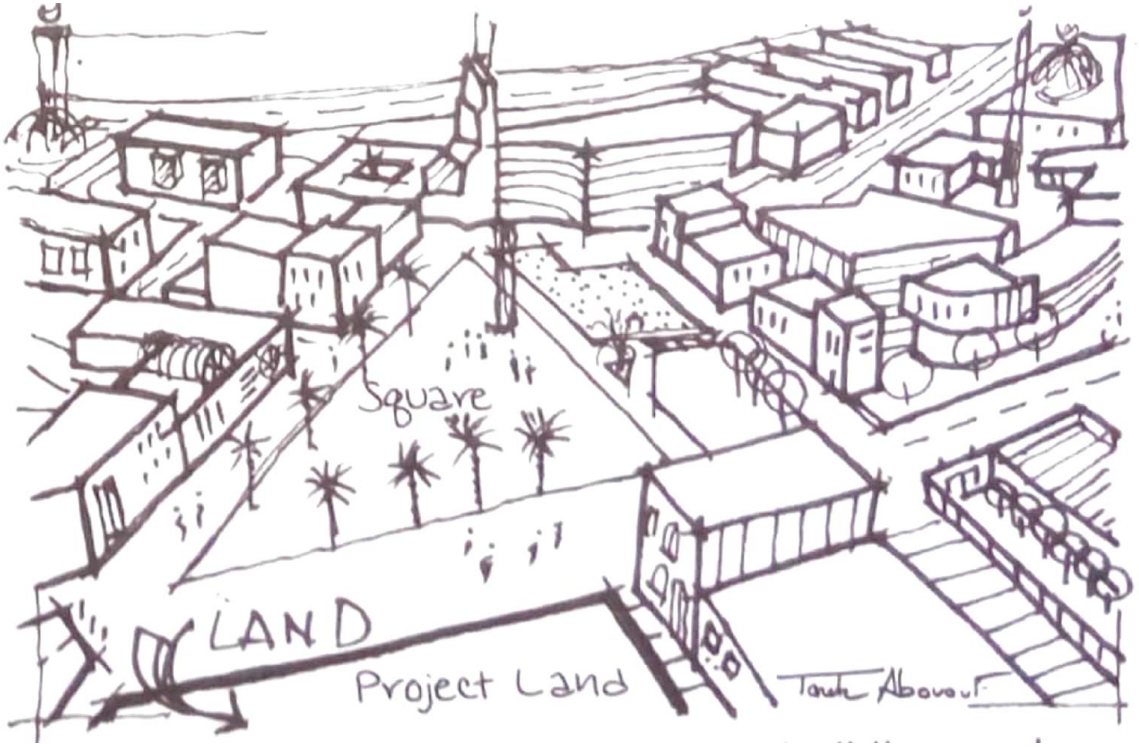
Include maps showing location of site in relation to city as a whole

CONTEXT

KINDS OF INFORMATION

2. NEIGHBORHOOD CONTEXT

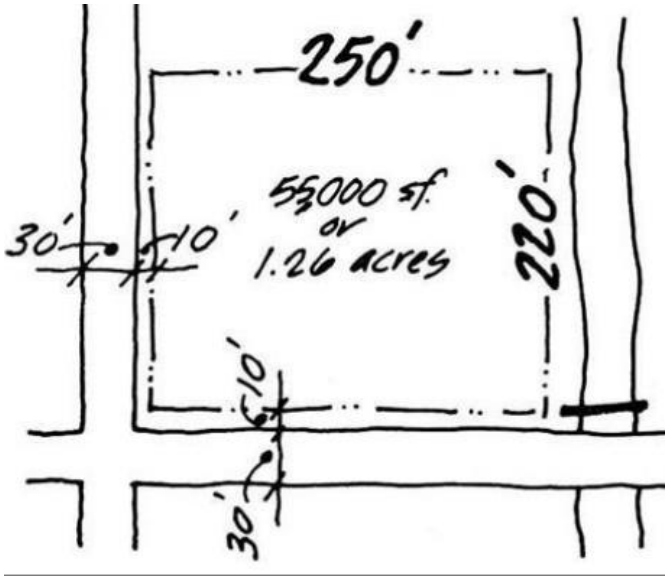
Presents the immediate surroundings of the site.

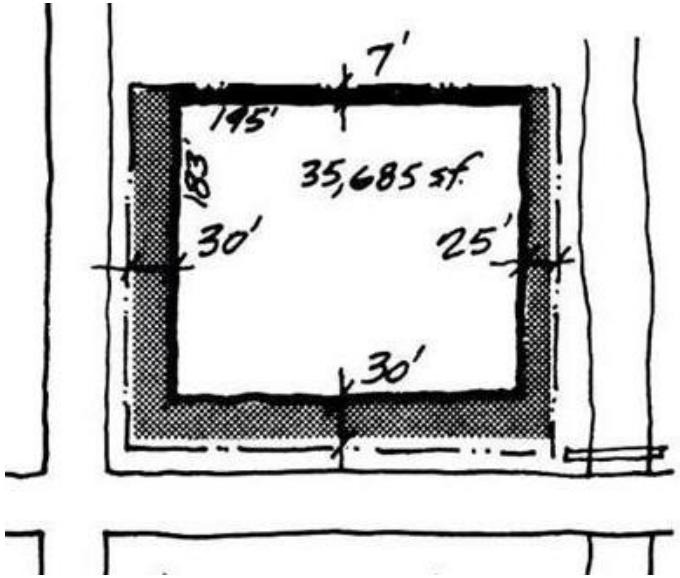


KINDS OF INFORMATION

3. SIZE & AREA

Documents all the dimensional aspects of the site including boundaries, location and dimensions of present zoning.

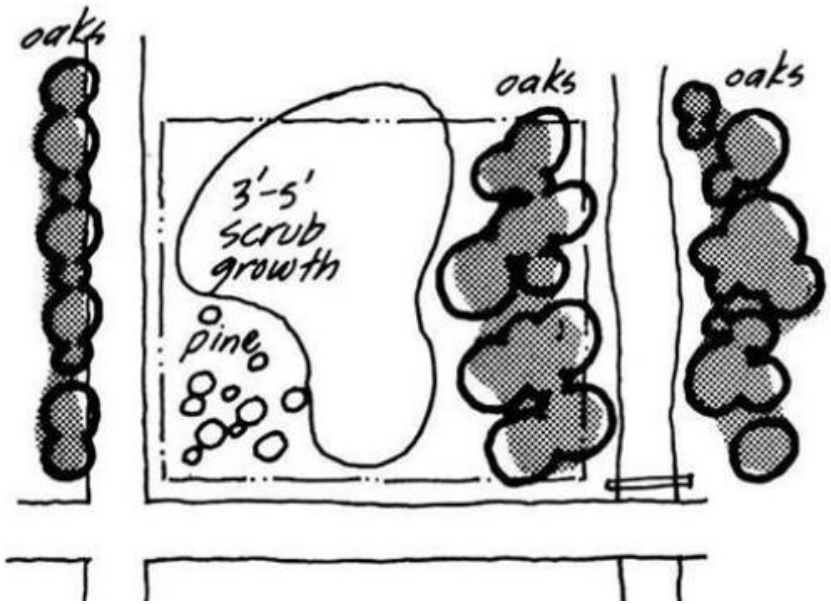


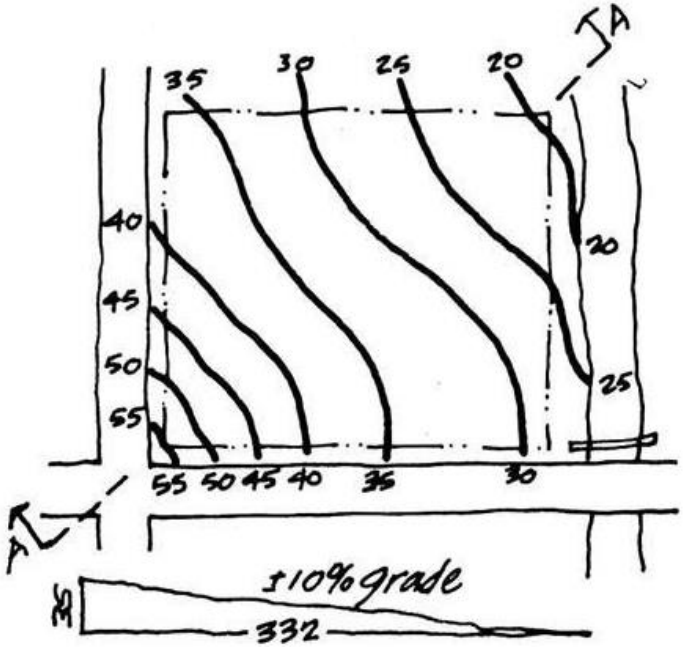


KINDS OF INFORMATION

4. NATURAL PHYSICAL FEATURES

Includes contours, trees, rocks,...

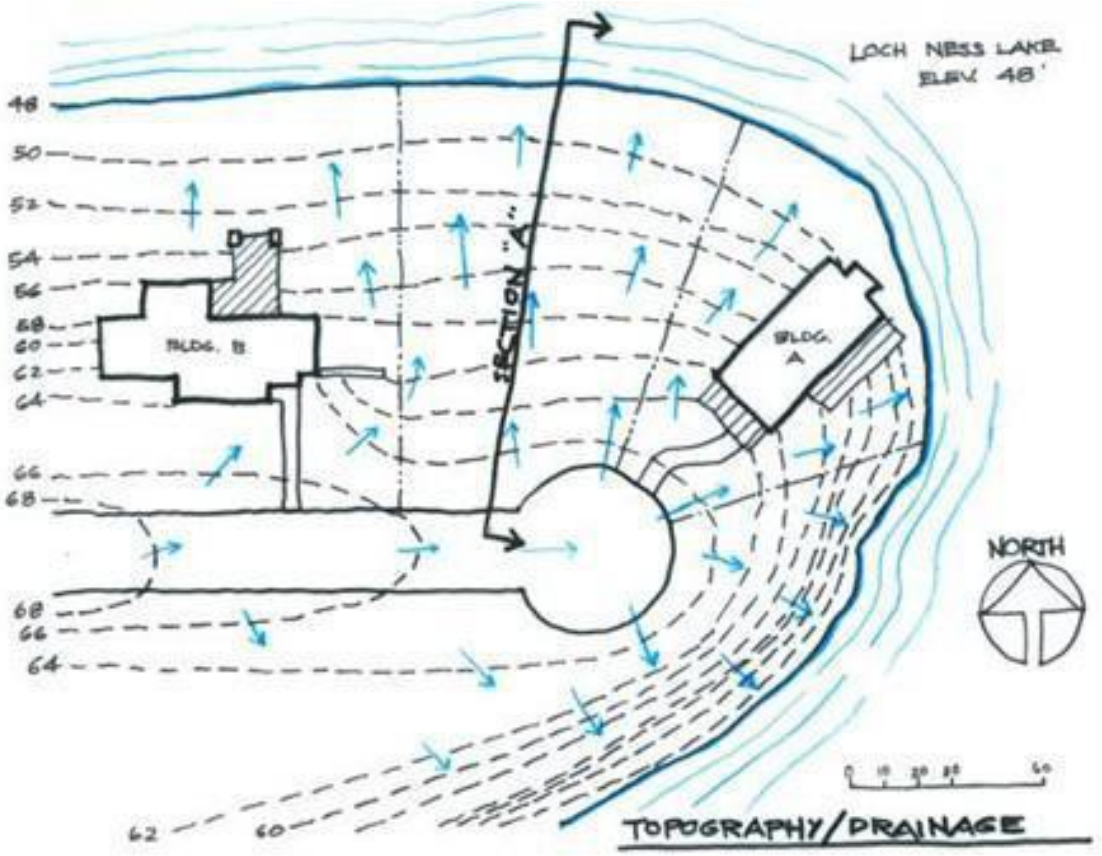




CONTEXT

KINDS OF INFORMATION

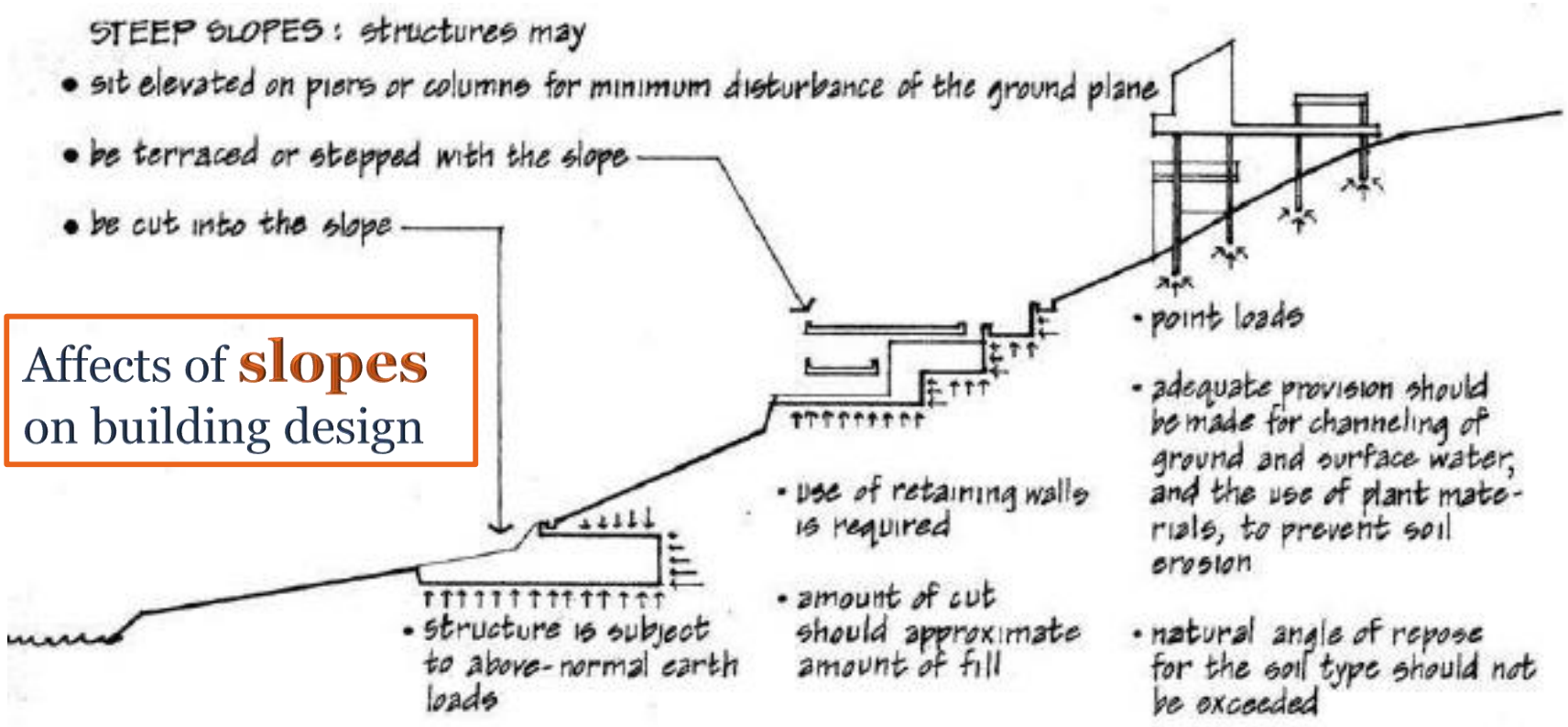
4. NATURAL PHYSICAL FEATURES



CONTEXT

KINDS OF INFORMATION

4. NATURAL PHYSICAL FEATURES

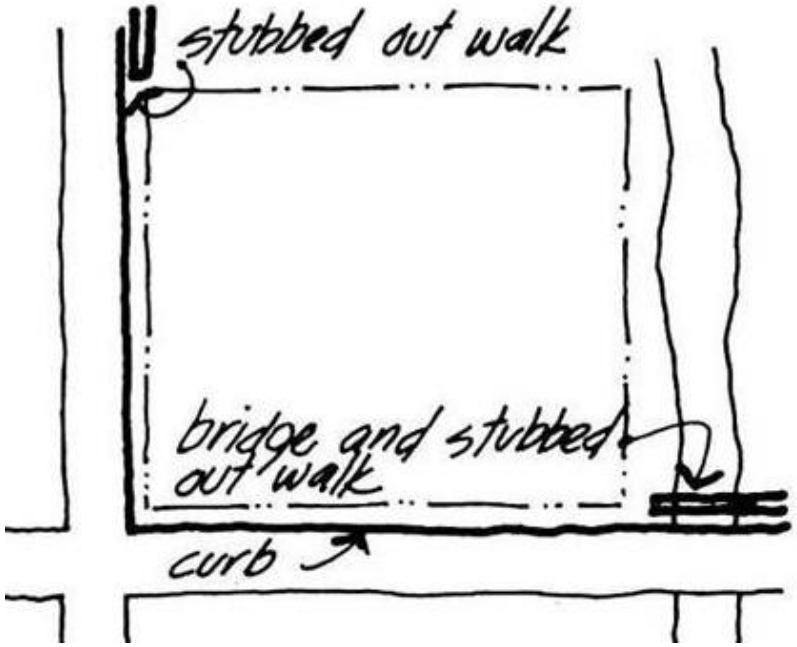


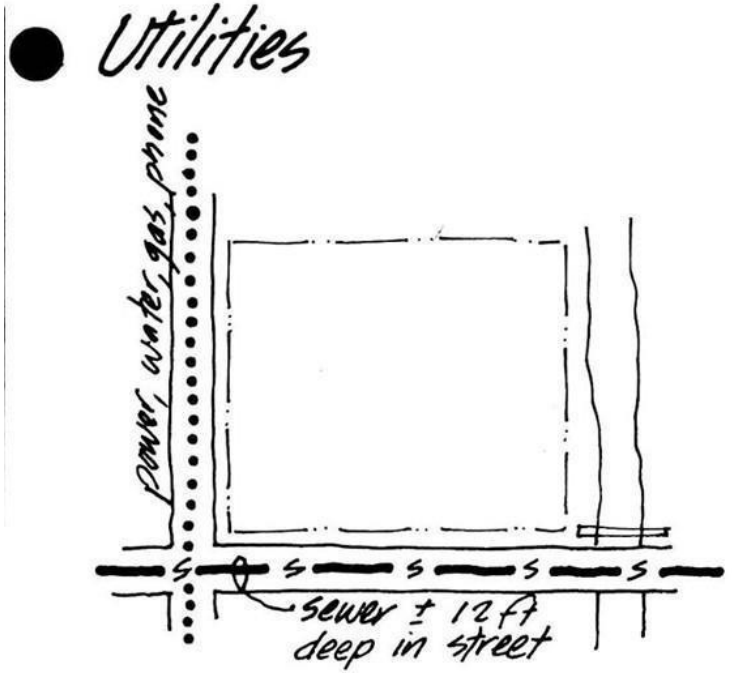
Affects of **slopes** on building design

KINDS OF INFORMATION

5. MAN MADE FEATURES

Documents on site conditions such as buildings, walls, paving patterns,…

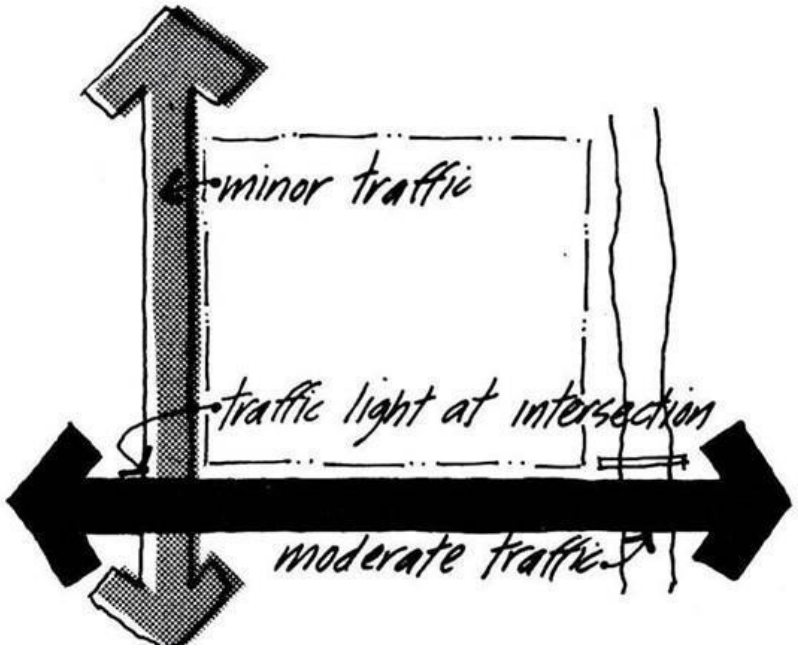




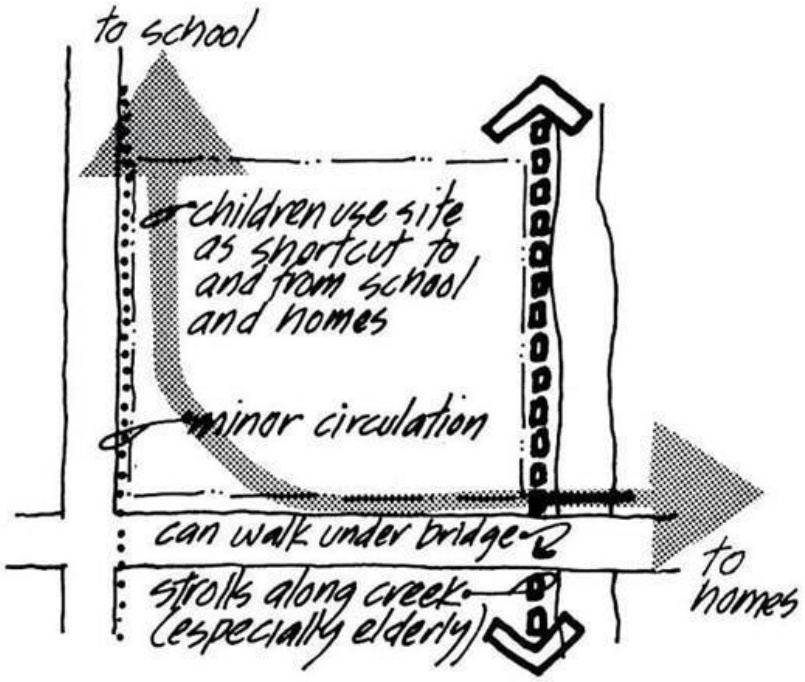
KINDS OF INFORMATION

6. CIRCULATION

- Vehicular circulation



- Pedestrian circulation

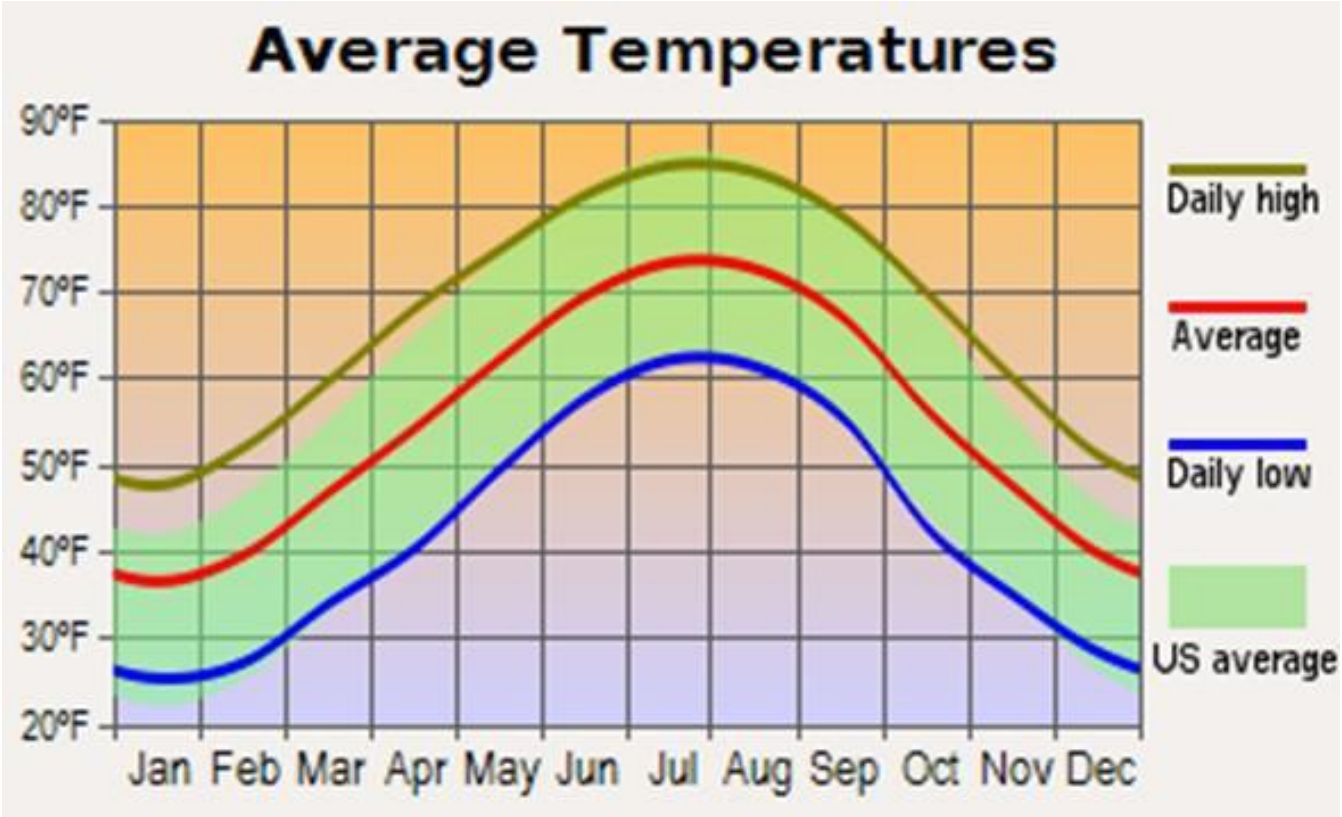


KINDS OF INFORMATION

6. CIRCULATION

KINDS OF INFORMATION

7. CLIMATE



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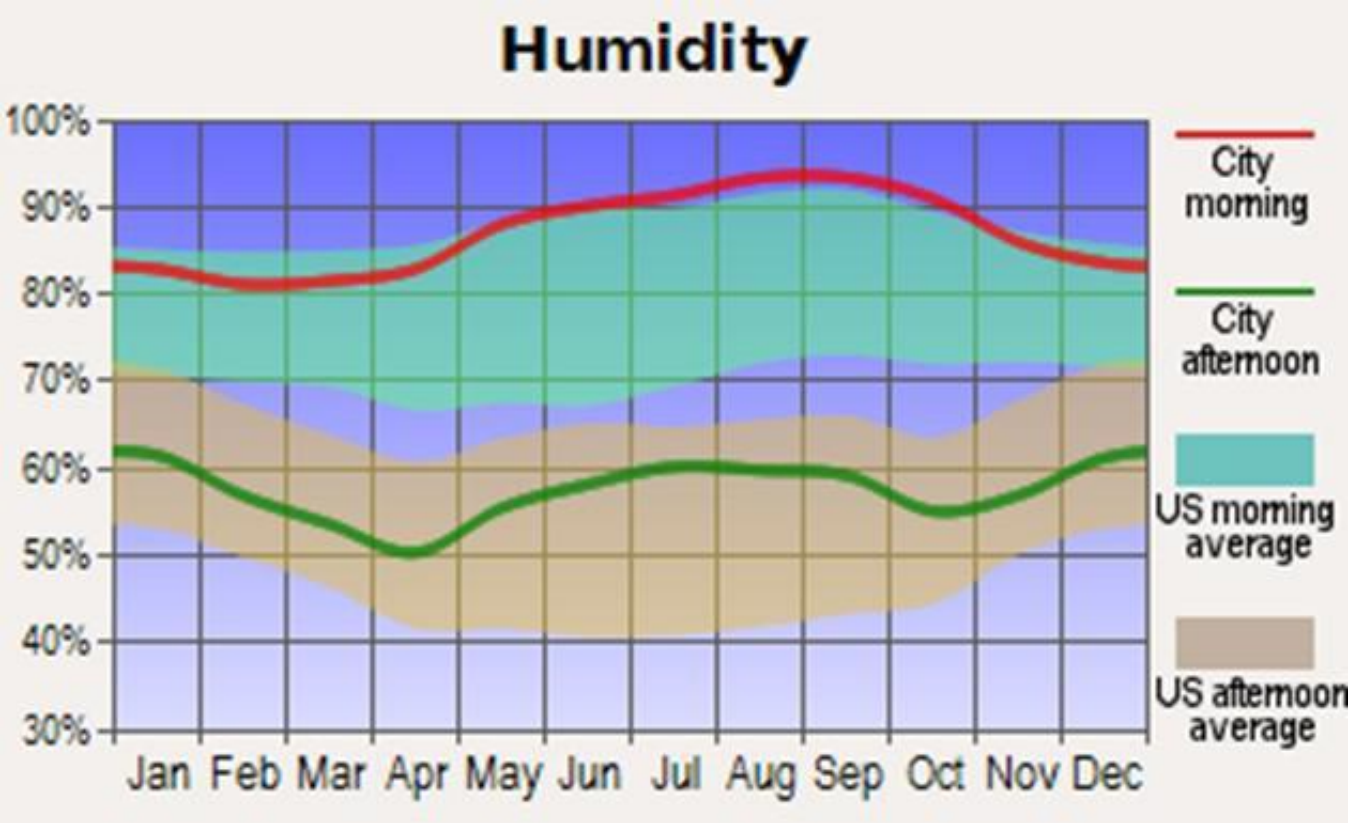

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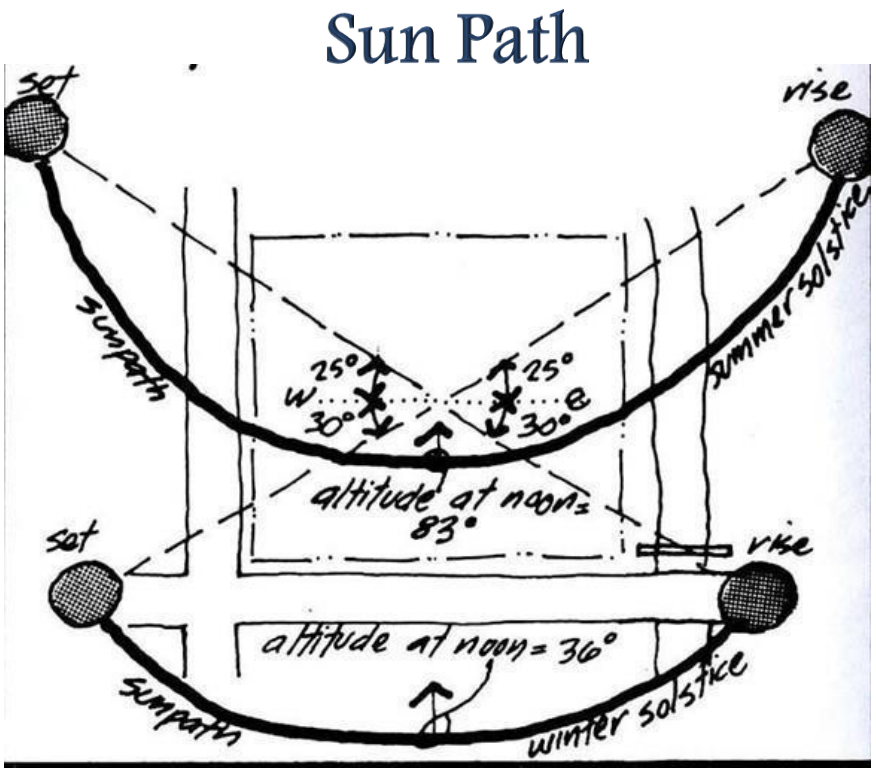

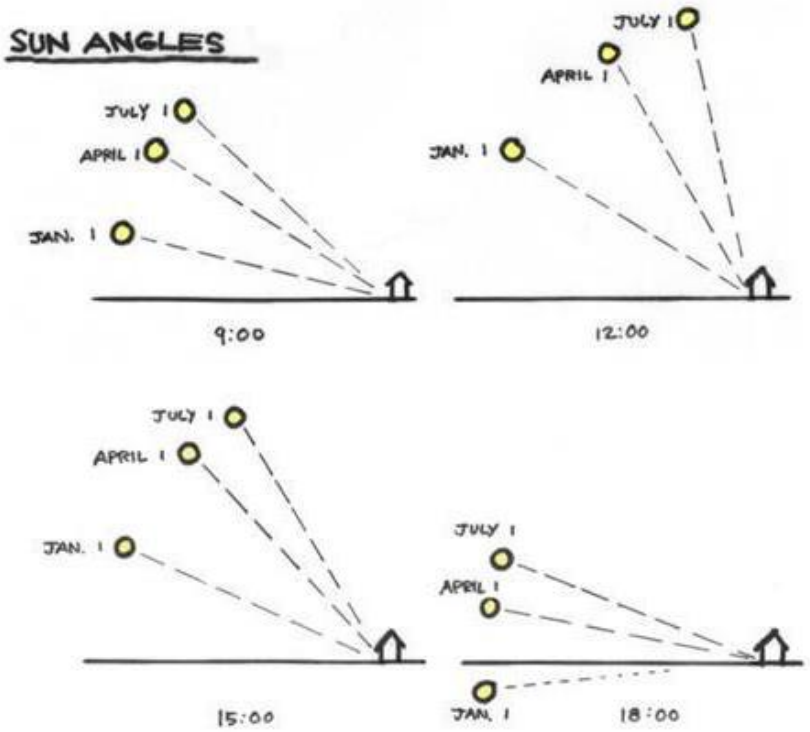

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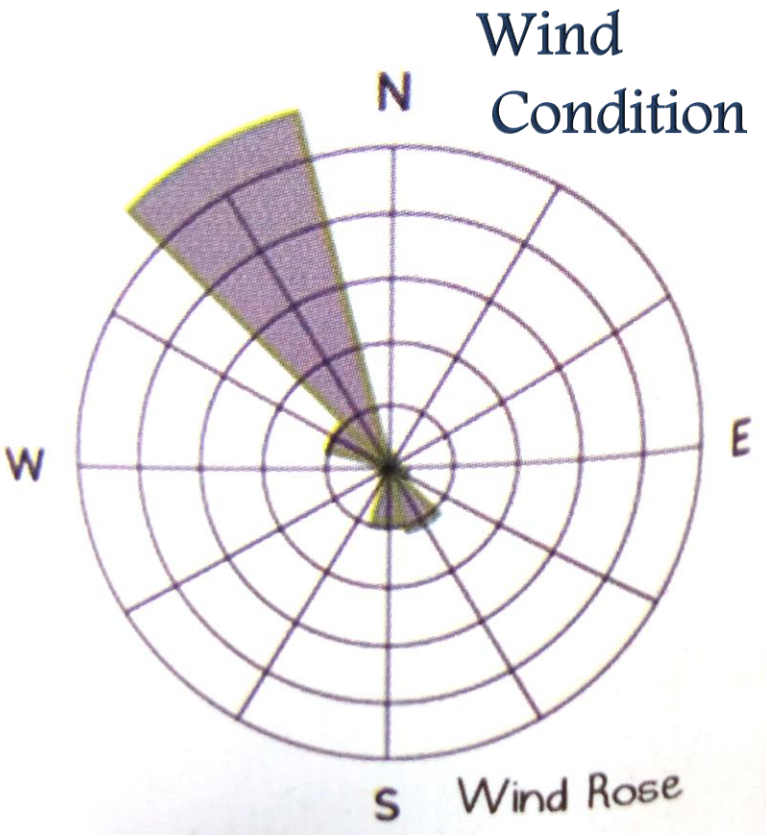
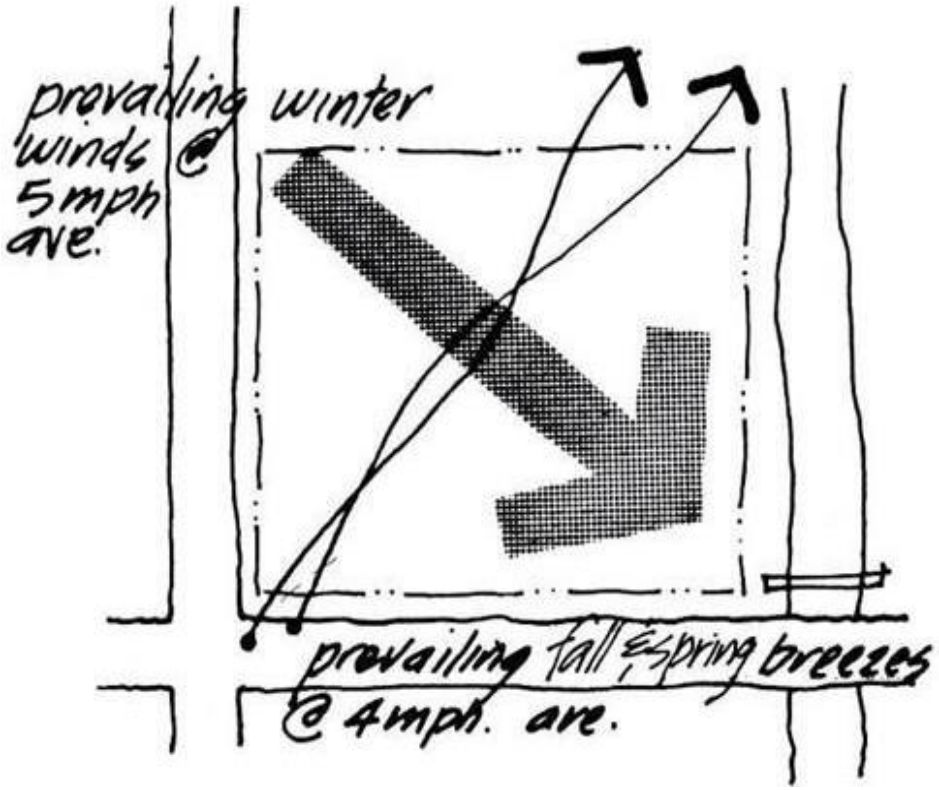
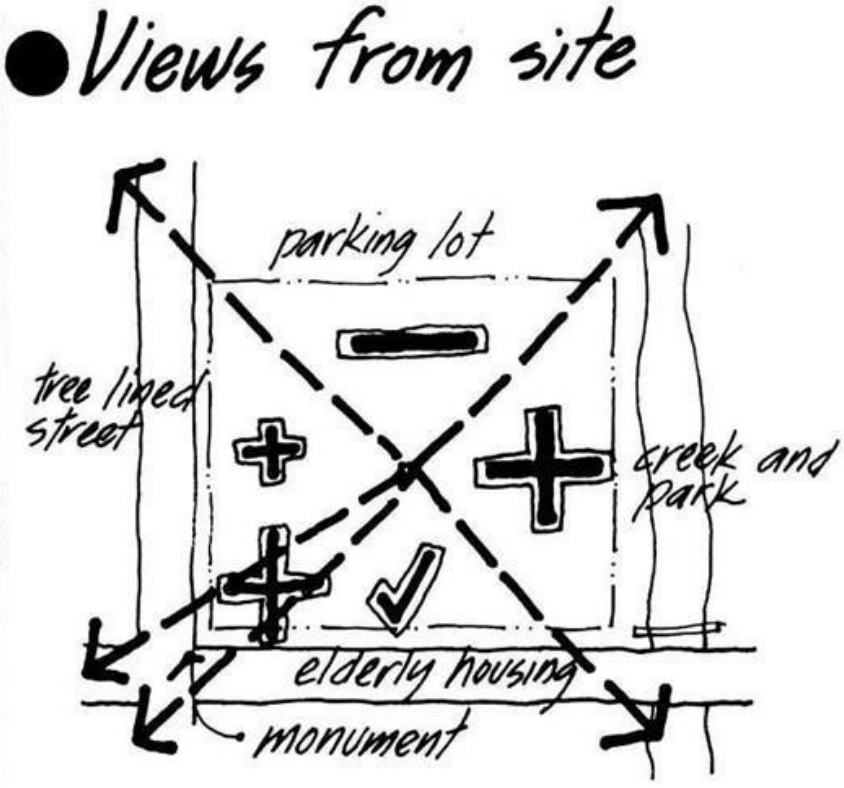


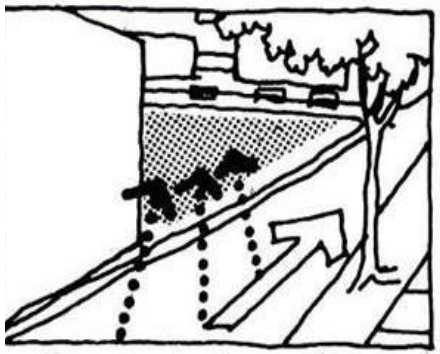


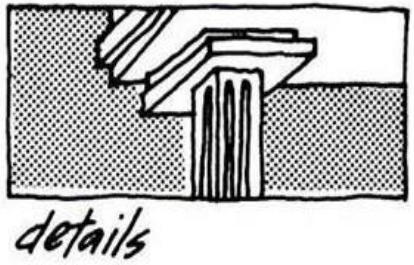
CONTEXT

KINDS OF INFORMATION

8. DIFFERENT VIEWS



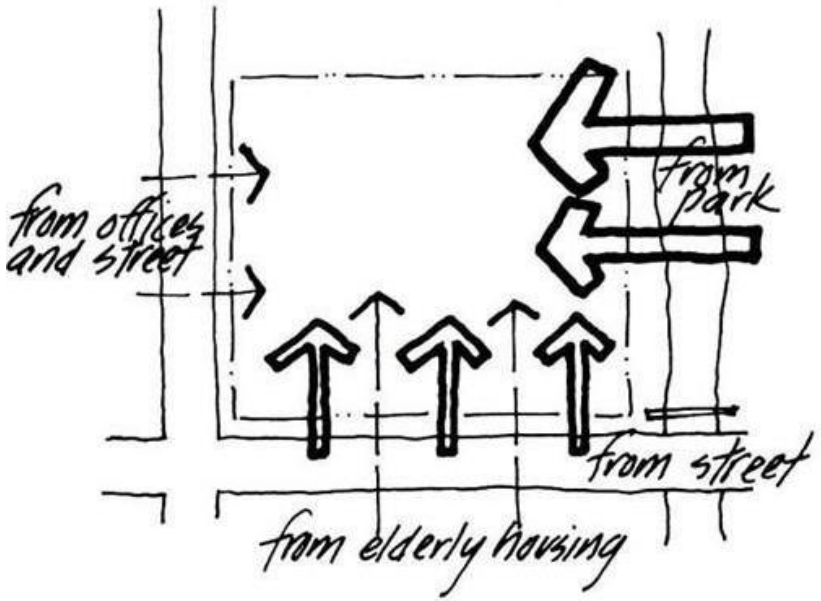




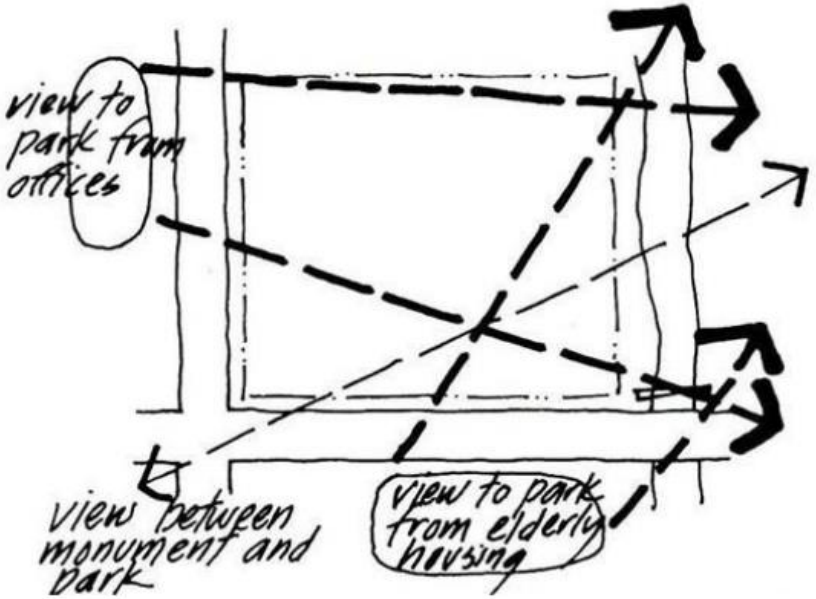
KINDS OF INFORMATION

8. DIFFERENT VIEWS

- Views to site

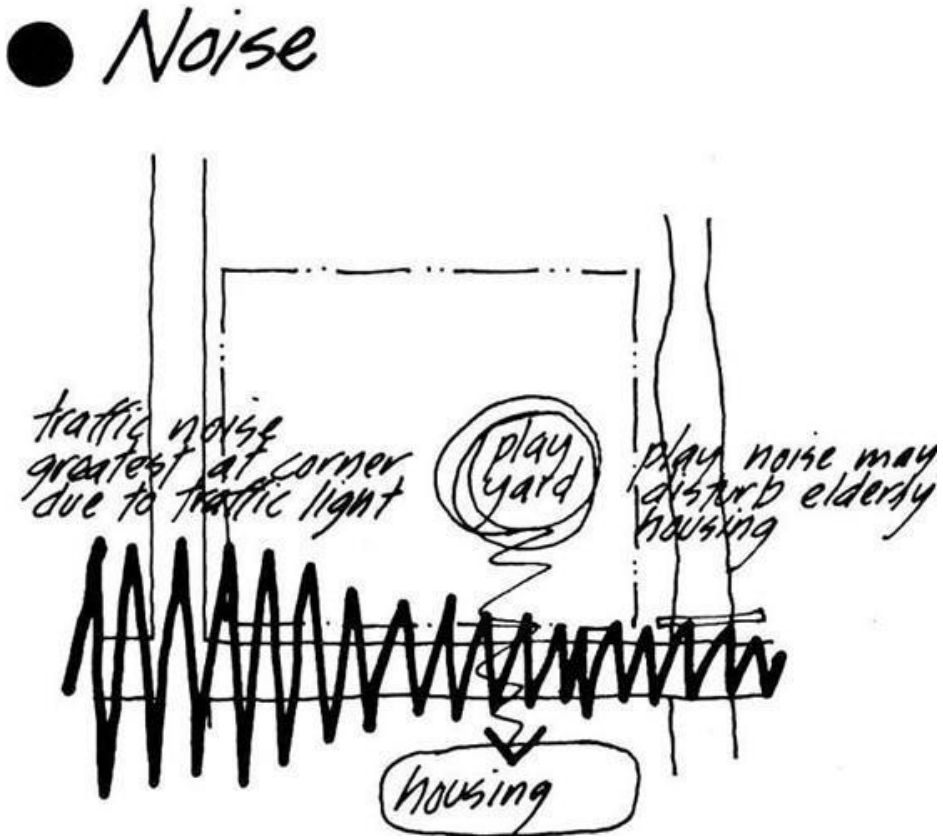


- Views through site



KINDS OF INFORMATION

9. NOISE



3

SYMBOLIZING SKETCH ELEMENTS

SYMBOLIZING SKETCH ELEMENTS

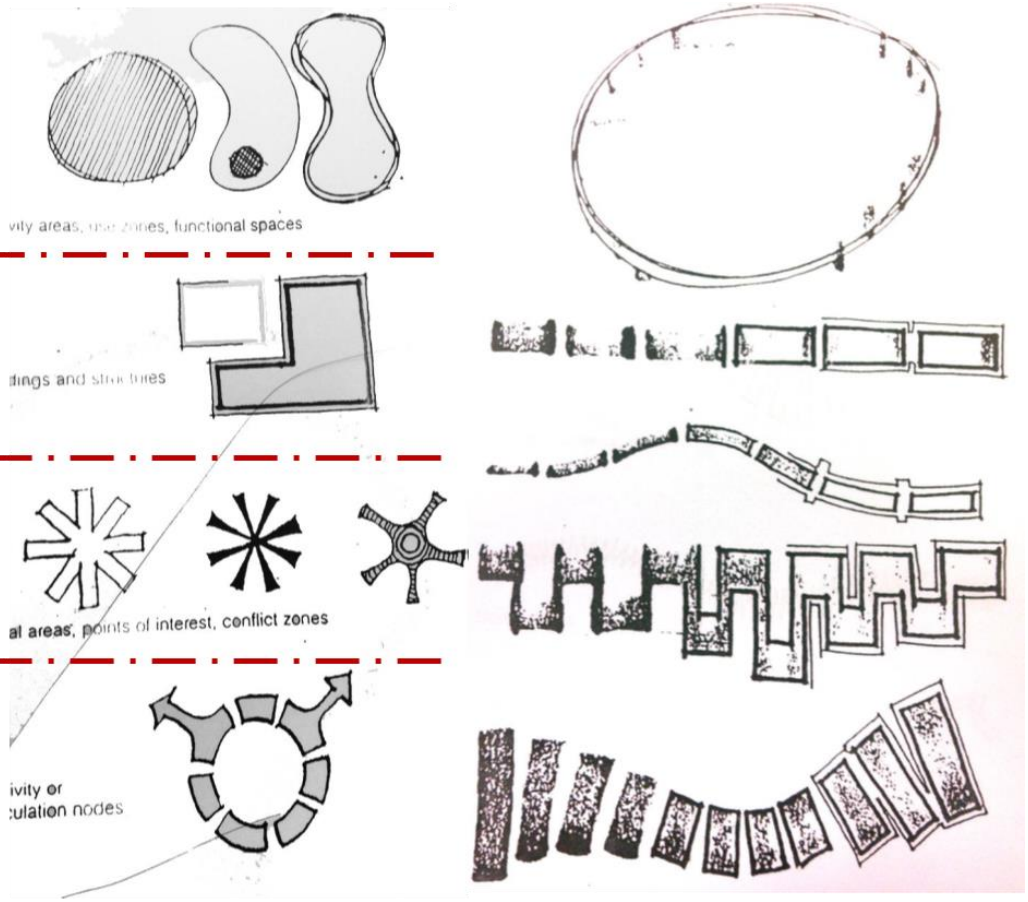
FUNCTIONAL ELEMENTS SYMBOLIZING

FUNCTIONAL SPACES

BUILDINGS AND STRUCTURES

FOCAL ELEMENTS

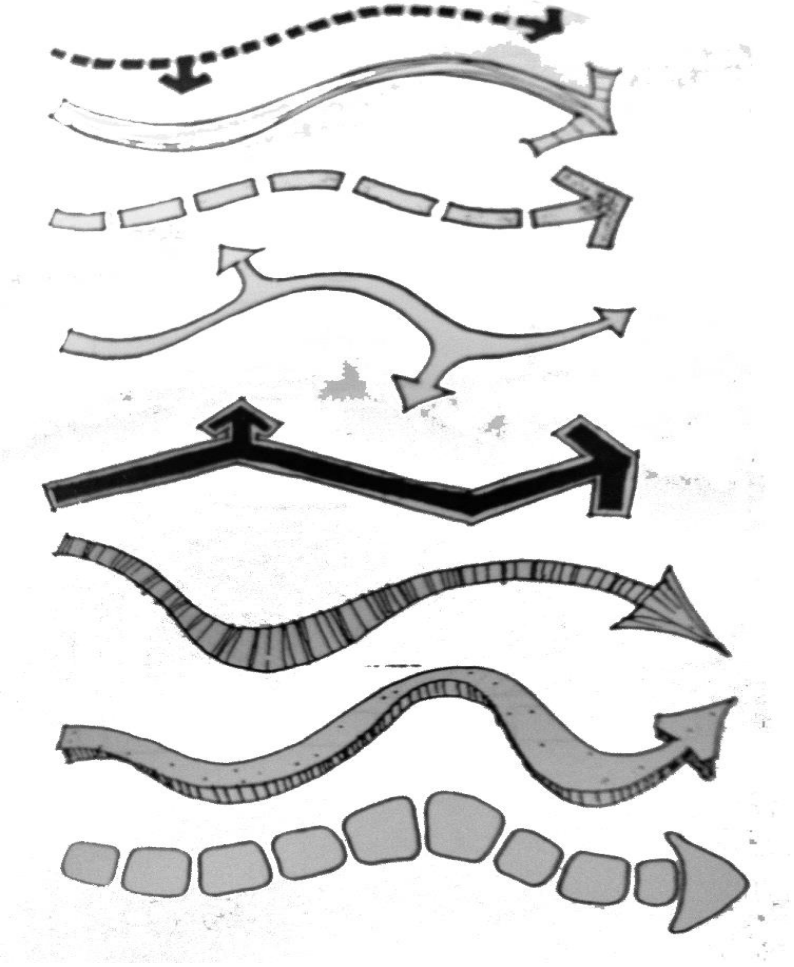
ACTIVITY/CIRCULATION NODE



SYMBOLIZING SKETCH ELEMENTS

MOVEMENTS SYMBOLIZING

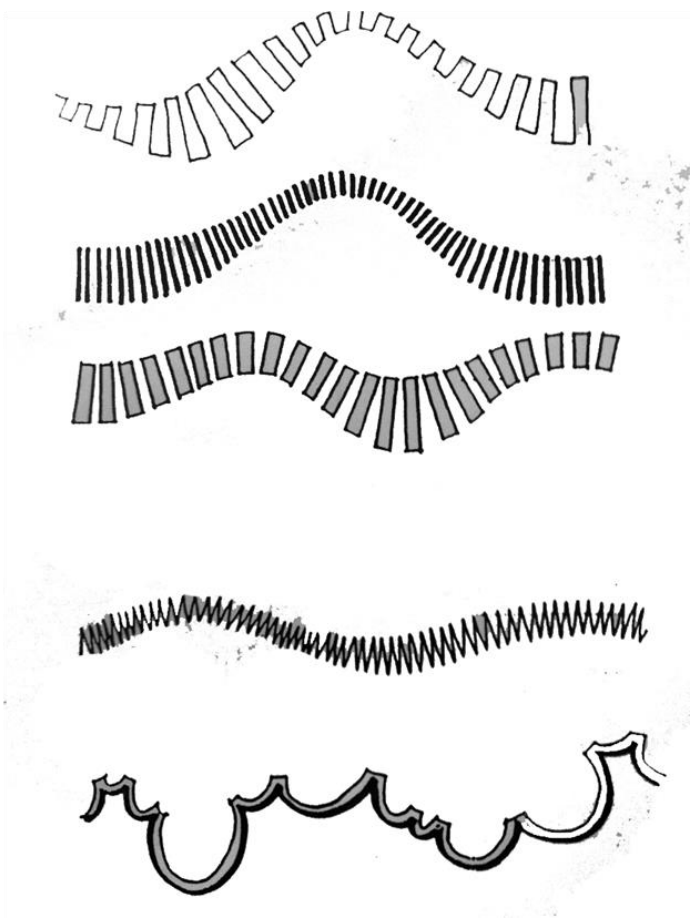
Simple arrows can designate corridors and other directional movements.



SYMBOLIZING SKETCH ELEMENTS

EDGES SYMBOLIZING

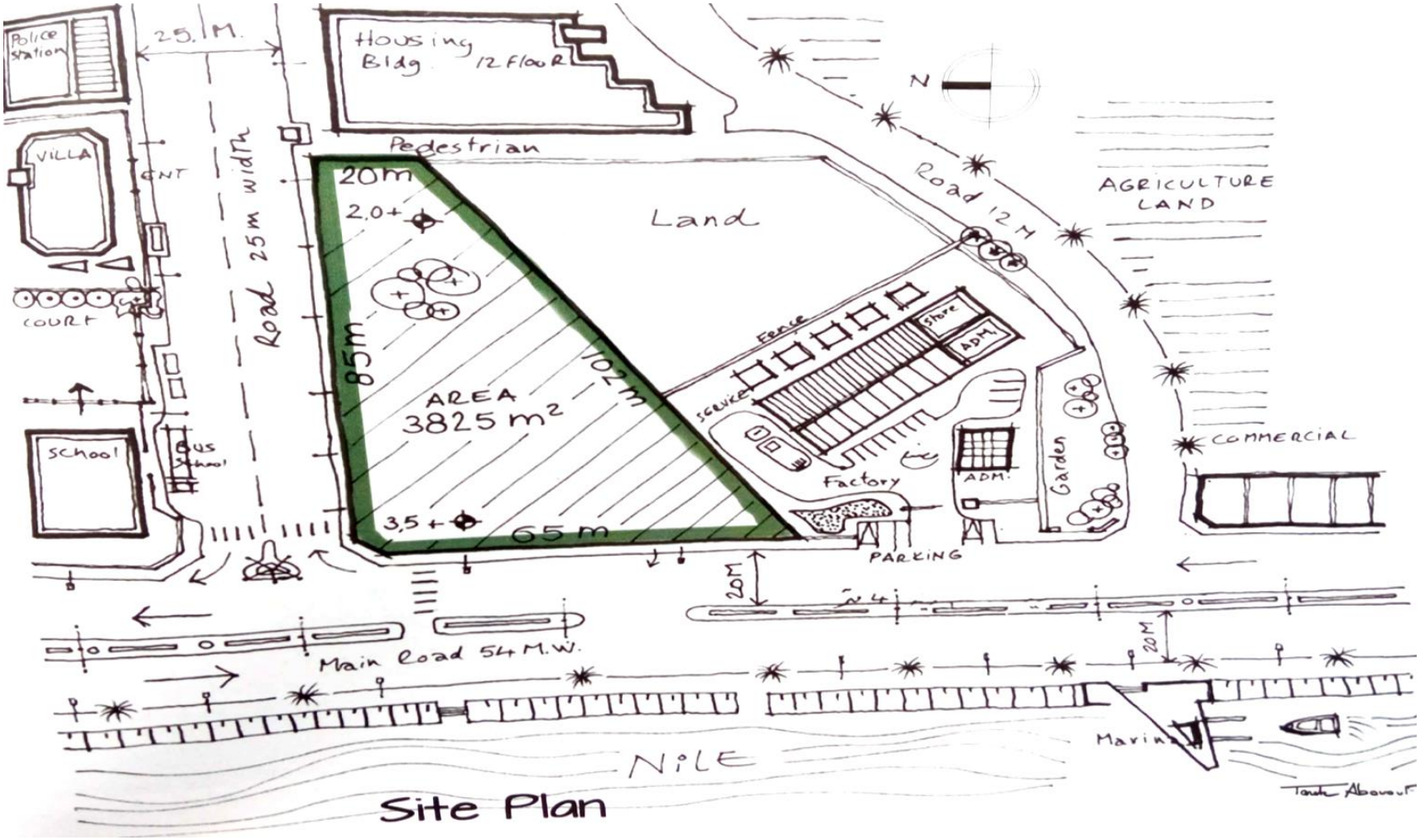
Articulating lines can show lineal vertical elements such as walls, screens, barriers,..



4

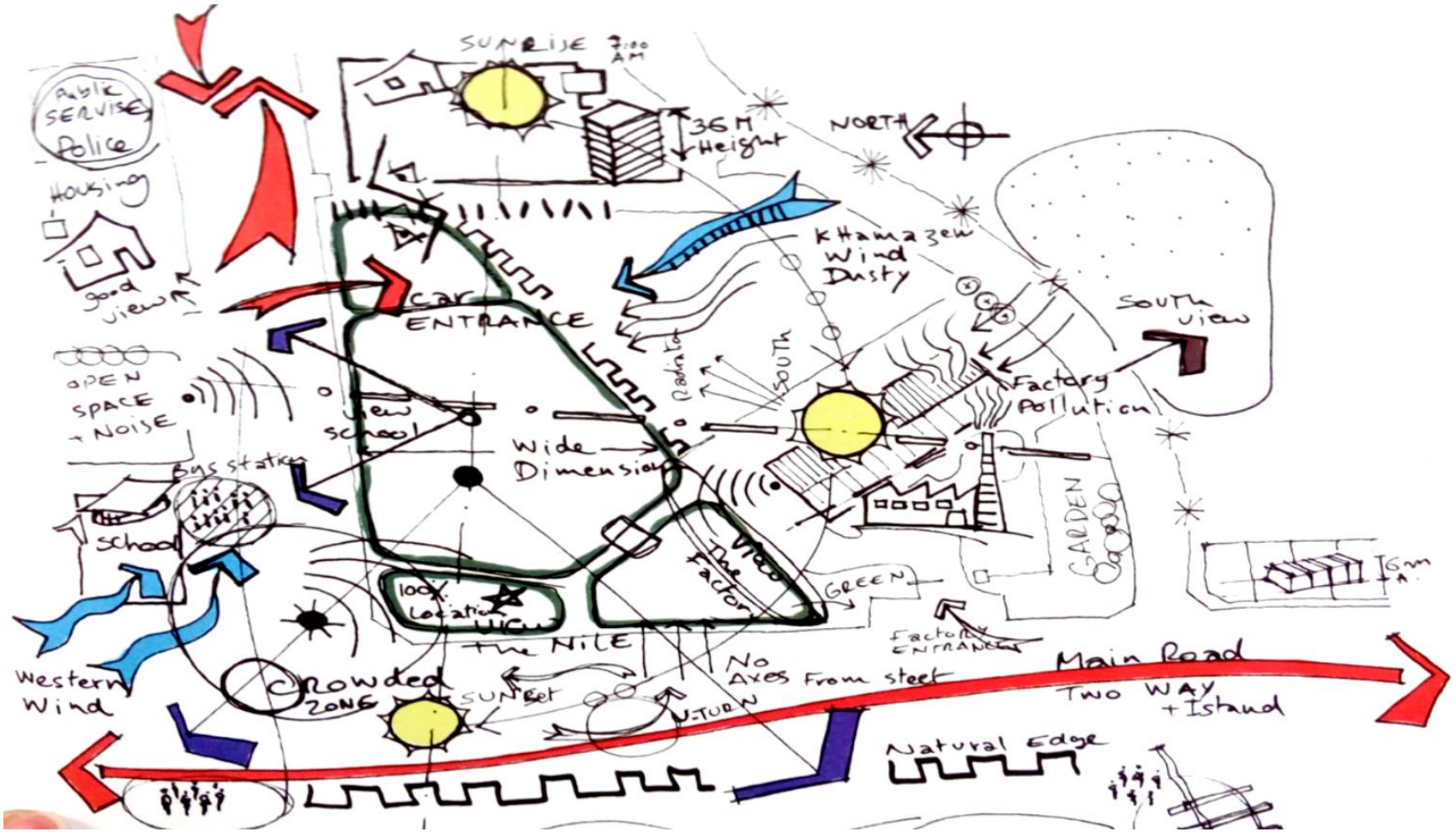
EXAMPLES

EXAMPLES



Police station
25 M.
Housing Bldg 12 Floor
N
VILLA
ENT
Road 25 m width
Pedestrian
20m
2,0+
Land
Road 12 M
AGRICULTURE LAND
COURT
85m
AREA 3825 m²
102 m
Fence
Store
ADM.
SERVICE
School
Bus School
Factory
ADM.
Garden
COMMERCIAL
3,5+
65 m
PARKING
20M
Main Road 54 M.W.
20M
Marina
NILE
Site Plan

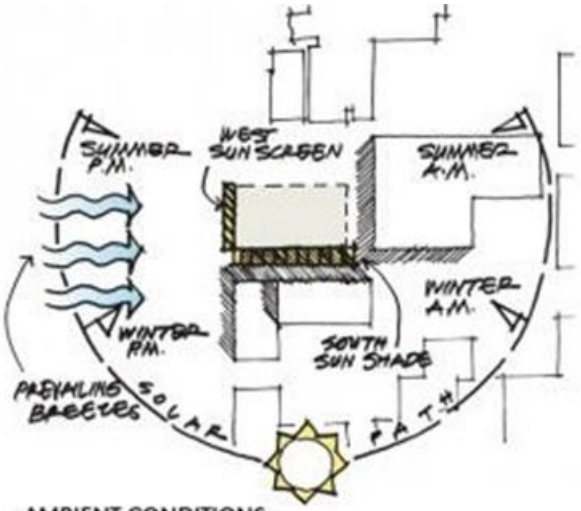
EXAMPLES



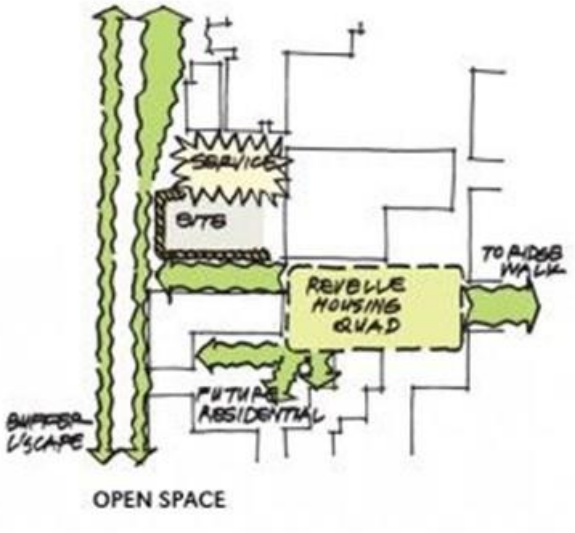
SUNRISE 7:00 AM
36 M Height
NORTH
Public SERVISE Police
Housing
good view
Car ENTRANCE
Khamazen Wind Dusty
South view
OPEN SPACE + Noise
View school
Wide Dimension
Radiator
South
Factory Pollution
Bus station
School
100% Location
View The Factory
GREEN
GARDEN
The NILE
Factory ENTRANCE
Western Wind
Crowded ZONE
SUNSET
No Axes From steet
Main Road
Two WAY + Island
U-TURN
Natural Edge

EXAMPLES

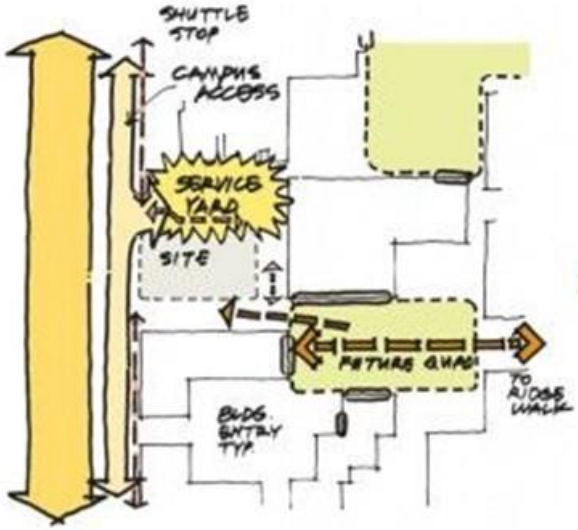
EXAMPLES



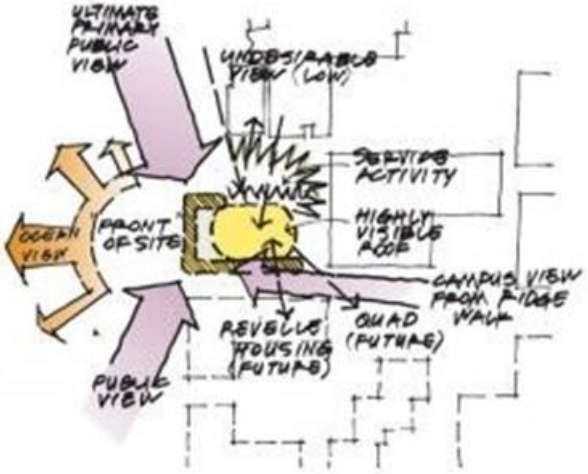
AMBIENT CONDITIONS



OPEN SPACE

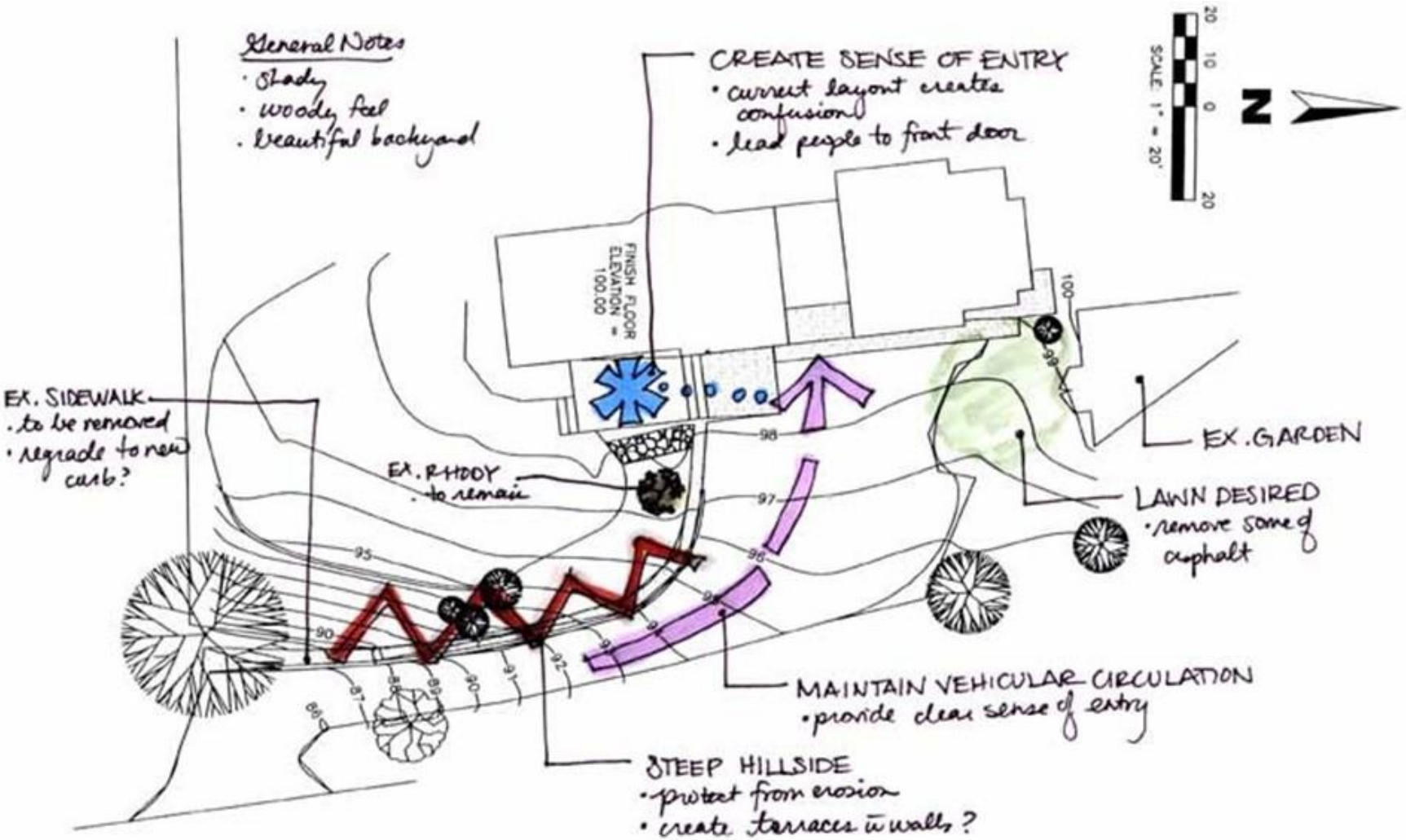


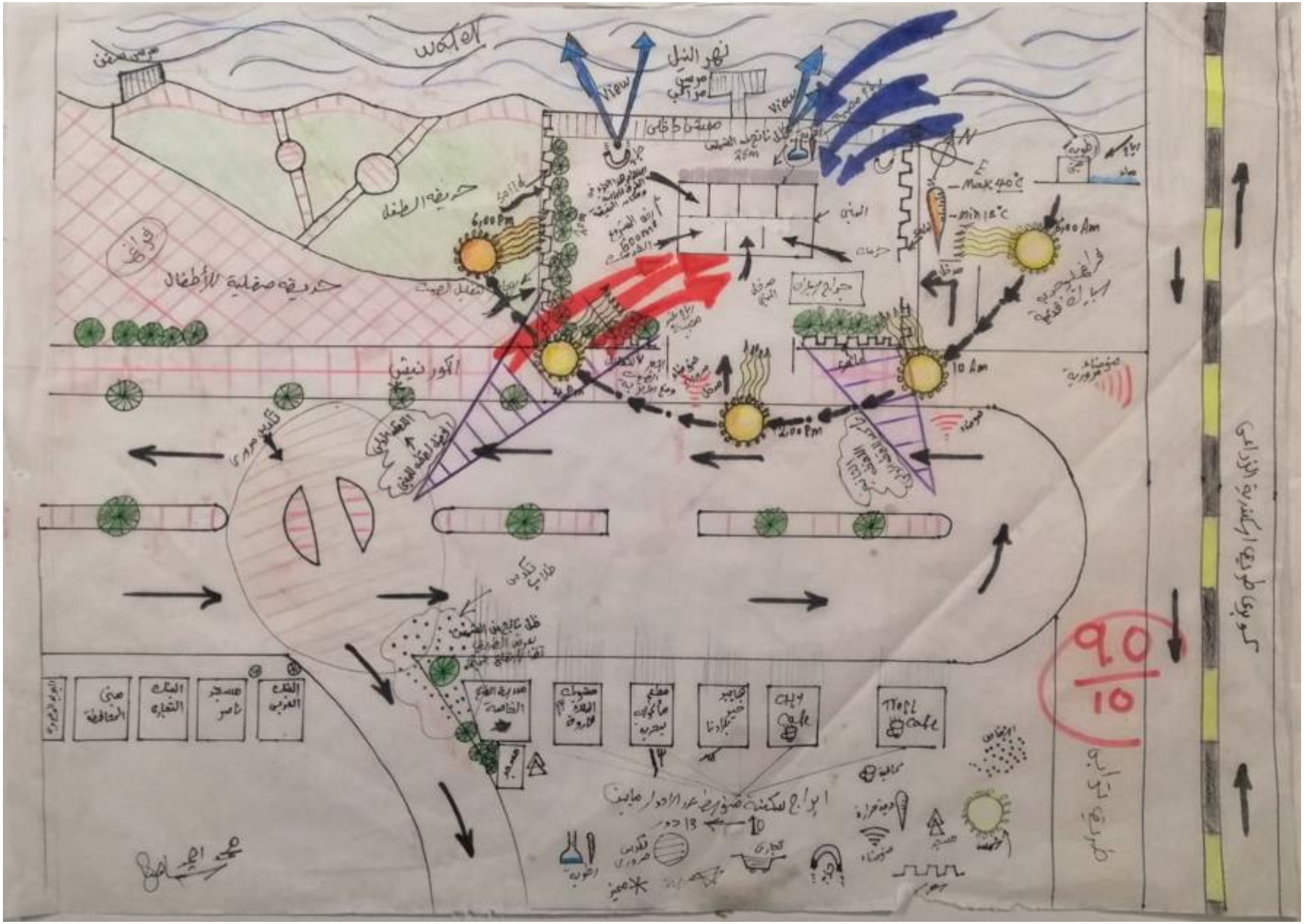
PEDESTRIAN & VEHICULAR CIRCULATION

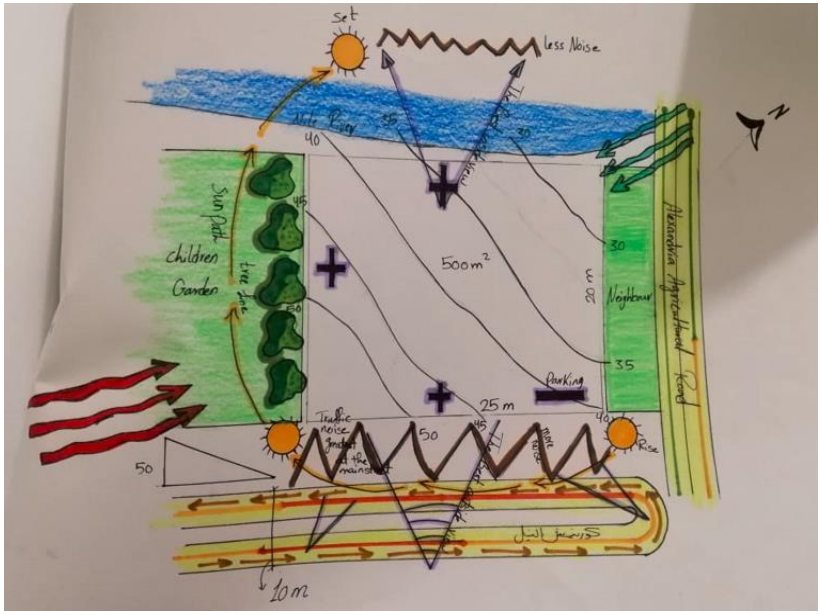


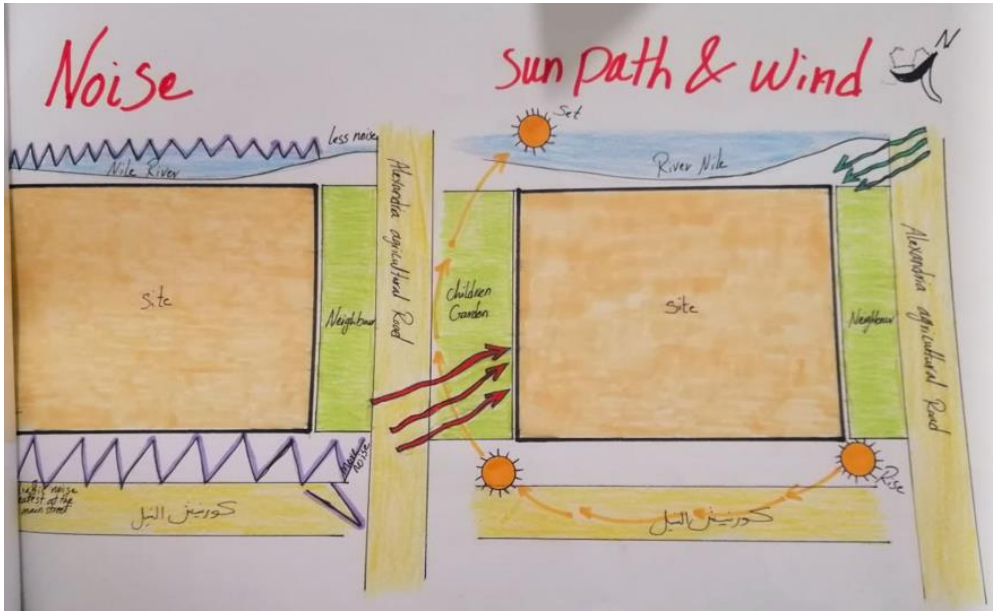
VIEWS

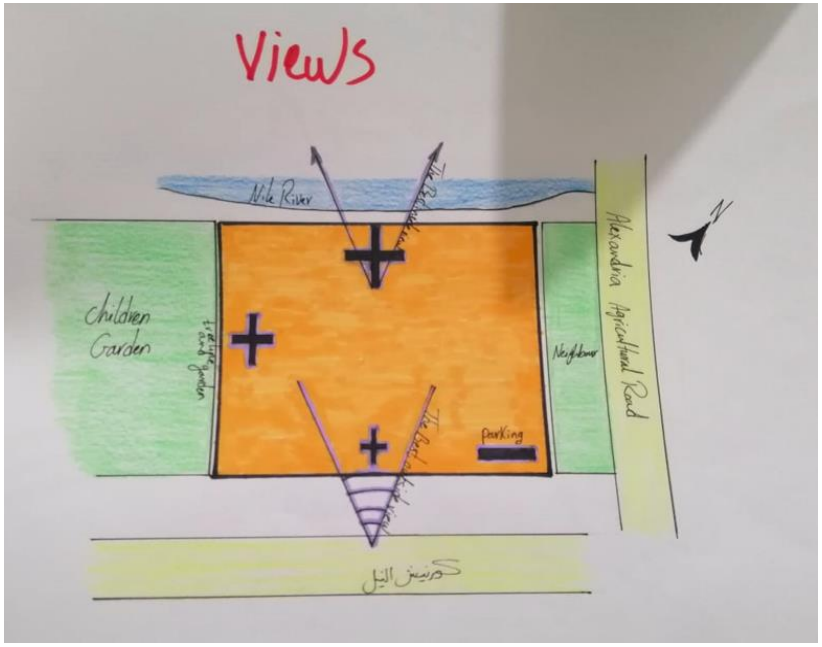
EXAMPLES

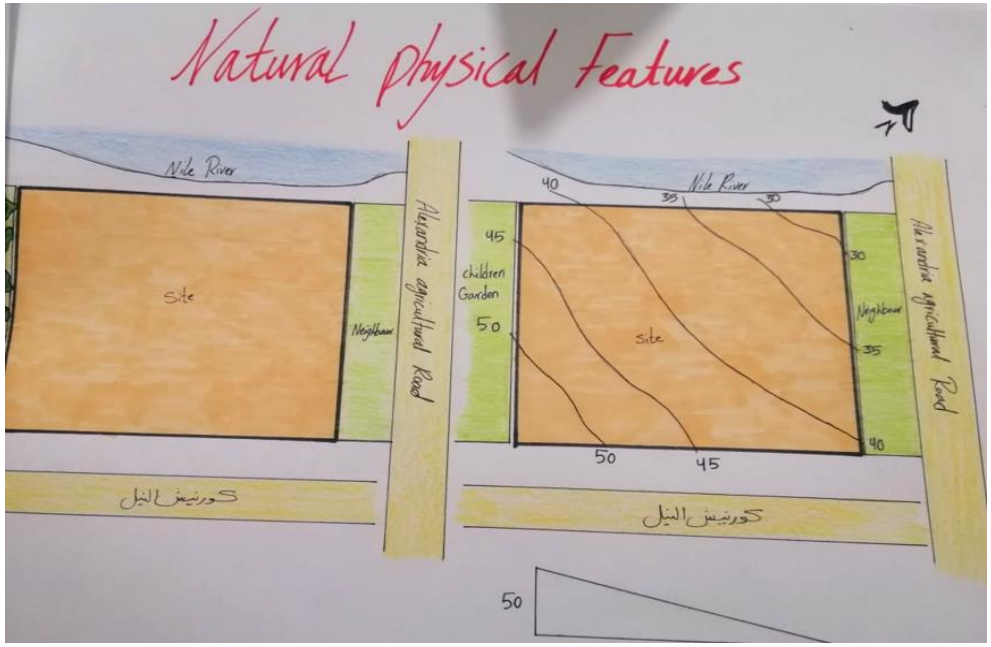

General Notes
· shady
· woodsy feel
· beautiful backyard
CREATE SENSE OF ENTRY
· current layout creates confusion
· lead people to front door
SCALE 1" = 20'
20 10 0 20
N
FINISH FLOOR ELEVATION = 100.00
EX. SIDEWALK
· to be removed
· regrade to new curb?
EX. RHODY
· to remain
EX. GARDEN
LAWN DESIRED
· remove some of asphalt
MAINTAIN VEHICULAR CIRCULATION
· provide clear sense of entry
STEEP HILLSIDE
· protect from erosion
· create terraces w walls?

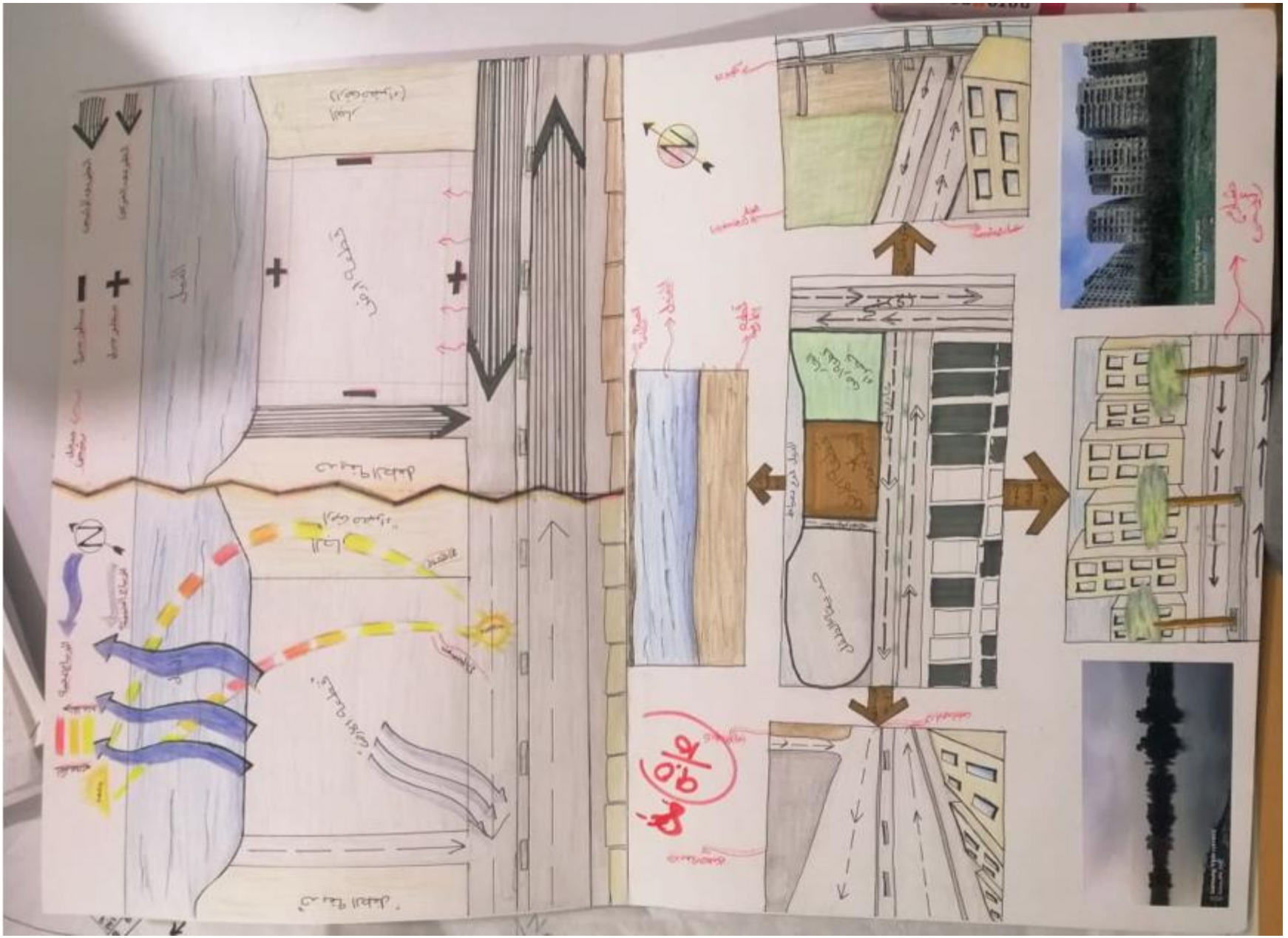

water
نهر النيل
View
حديقة الطفل
حديقة صقلية للأطفال
الكورنيش
6,00 Pm
6,00 Am
10 Am
2,00 Pm
Max 40°C
min 18°C
CHY Cafe
Tropl Cafe
9.0
10


set
less Noise
Nile River
Sun Path
children Garden
tree line
500m²
Neighbour
Alexandria Agricultural Road
Parking
25 m
Rise
10m
كورنيش النيل


Noise
Sun path & Wind
less noise
Nile River
Site
Neighbour
Alexandria agricultural Road
Set
River Nile
children Garden
Rise
كورنيش النيل


Views
Nile River
children Garden
Neighbour
Alexandria Agricultural Road
parking
كورنيش النيل


Natural physical Features
Nile River
Site
Neighbour
Alexandria agricultural Road
children Garden
كورنيش النيل



5

HOMEWORK #6

HOMEWORK #6

على كل طالب عمل تحليل للموقع الخاص بموقع المشروع بناءا على ما تم شرحه بالمحاضرة

REFERENCES

The references to multiple sources are text & figures (sketches, drawings, pictures, photos,..etc.)

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ANY QUESTIONS???

THANK YOU…