PERCEPTION → Spatial Perception → 5 Senses → Holistic Perception → Being in Time

sight
taste
smell
hearing
"Narcissistic Eye"

Preservation
Adaptive Reuse use for potential duration
Temporary/Permanent

Life Cycle

ARCHITECTURE & TIME

Design Process → Construction → Architectural Product/Object → Usage

Designing for changing future

Climate Effective Design climate as a time dependent variable

Light as Time Imposer

Construction Time
28

Time Management

Fast Construction (prefabrication)

Architecture as Source of Memory

Timeless Architecture - resisting to time
The Timeless Way of Building
Christopher Alexander

Unfinished Building -suspended time

Time as Context
SPACE, TIME AND ARCHITECTURE
S. GIEDON

Decay of Materials Caused by Time

Sequences of daily use (day/night, summer/winter)

TIME PERCEPTION

Psychological Approach

123123123123123123123123123123123123123
present

hearing
taste
smell
sight
touch

Phenemenological Approach

● "Spacious Present" by William James

past recentpast recentfuture future
experienced present

● "Conciousness of Time" by Edmund Husserl

present
pastpastpast futurefuturefuture

Scientific (Physics) Approach

● Newtonian Time /Linear Time
past past past present future future future
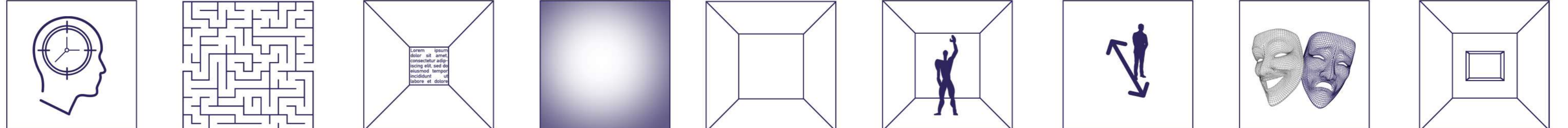
● Einstein's Time /Relative Time
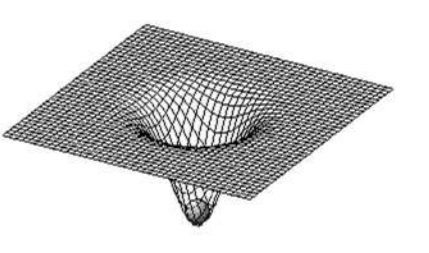
EXPERIMENTS

Faster
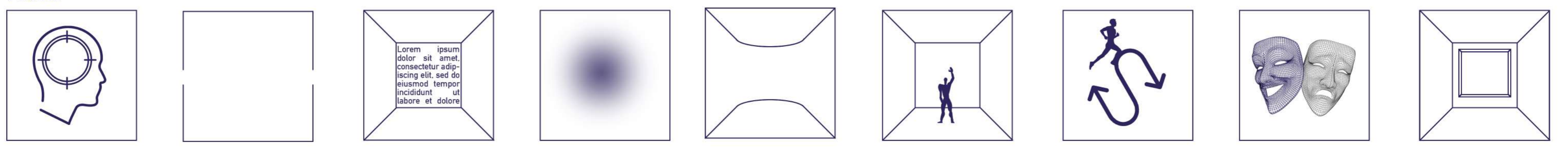
Slower

| Concentration on Time | Limiting Movement | Distance of Display Surface | Brightness | Form | Scale of Environment | Action & Changes | Emotions | Size of Visual Display Area |

SCALE OF ENVIRONMENT

Bigger Scale of Environment

School Complex
MoDus Architects, 2016

Los Pilares School
Dovat Arquitectos, 2018

Borgafjellet Elementary School
LINK arkitektur, 2021

Smaller Scale of Environment

Early Childhood Center
Mahlum Architects, 2012

Benfeld Aristide Briand Primary School
Lionel Debs Architectures, 2015

Lucie Aubrac School
Coldefy & Associés, 2013

VISUAL DEMONSTRATION AREA

Bigger Visual Demonstration Area

Collodi Primary School
Settanta7, 2021

Suresnes Open-Air School
Marcel Lods, Eugène Beaudouin, 1935

Smaller Visual Demonstration Area

Ai Saleggi Primary School
Studio Vacchini, 1972-78

Weissenstein New School Building
Ernst Niklaus Fausch Partner, 2020

SPEED OF MOVEMENT

Decelerating/Accelerating Speed

Ai Saleggi Primary School
Studio Vacchini, 1972-78

Hellerup School
Arkitema Architects, 2011

Constant Speed

G.Zanella Primary School
Giulia de Appolonia, 2016

Fuji Kindergarten
Tezuka Architects, 2007

FORM

Curvelinear Form

Rosa Nursery School
Mario Botta, 2001-04

Mary Lyon Elementary School
Erickson McGovern Architects, 2019

Shenzhen Hongshan Middle School
CAPOL, 2022

Linear/Prismatic Form

School Group Paulette-Deblock
zigzag architecture, 2015

Prangins Kindergarden
Pierre-Alain Dupraz, 2015
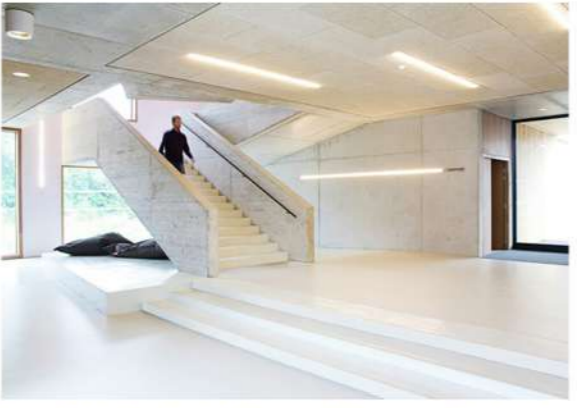

Suresnes Open-Air School
Marcel Lods, Eugène Beaudouin, 1935

LIGHT

Bright Light

Hellerup School
Arkitema Architects, 2011

Benfeld Aristide Briand Primary School
Lionel Debs Architectures, 2015

Learners Hall-International School
Mahlum Architects, 2016

Dim Light

YNS Yamaikarashi Nursery School
Takeru Shoji Architects, 2021

Los Pilares School
Dovat Arquitectos, 2018

Morbio Inferiore Middle School
Mario Botta, 1972-77

RESTRICTION OF MOVEMENT

Unlimited Movement

Fuji Kindergarten
Tezuka Architects, 2007

Leutschenbach School
Christian Kerez, 2009

Limited Movement

Thomas Deacon Academy
Foster+Partners, 2007

Hellerup School
Arkitema Architects, 2011

DISTANCE OF DISPLAY AREA

Closer Display (View) Area

Ai Saleggi Primary School
Studio Vacchini, 1972-78

Joseph D. Jamail Lecture Hall
LTL Architects, 2017

Far Display (View) Area

Morbio Inferiore Middle School
Mario Botta, 1972-77

Suresnes Open-Air School
Marcel Lods, Eugène Beaudouin, 1935

CHANGES & ACTIONS

More Changes & Actions

Žnjan-Pazdigrad Primary School
x3m, 2017

Mary Lyon Elementary School
Erickson McGovern Architects, 2019

Borgafjellet Elementary School
LINK arkitektur, 2021

Less Changes & Actions

Salmtal Secondary School Canteen
SpreierTrenner Architekten, 2012

Early Childhood Center
Mahlum Architects, 2012

Leutschenbach School
Christian Kerez, 2009

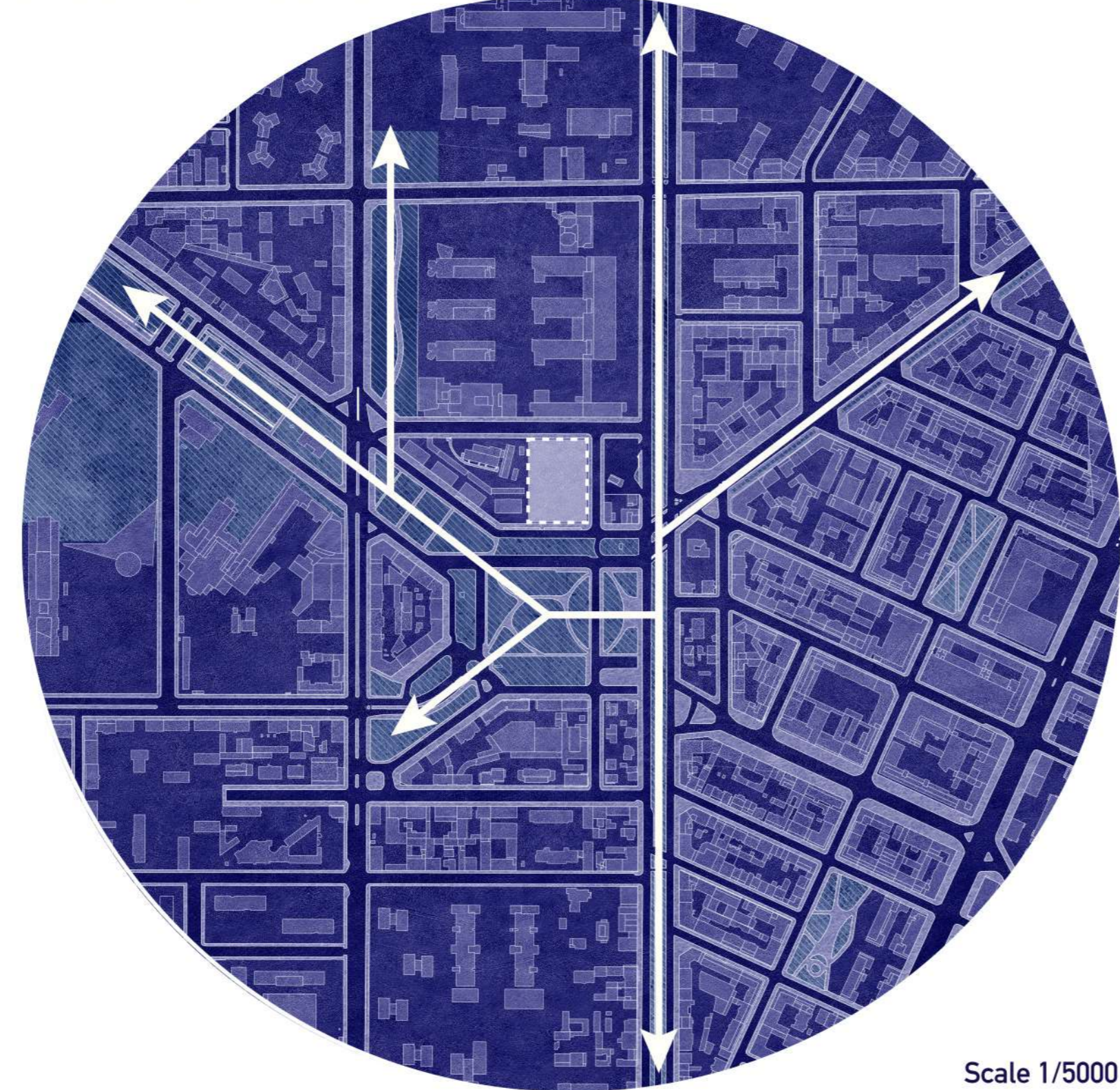# LOCATION

Primary school named as Instituto Comprensivo Statale-Cardarelli Massaua (State Comprehensive Institute) is chosen for the factors of:
-being a project of reconstruction rather than renovation
-closer location to city center which allows denser urban context and more urban inputs possible
-size of site that allows exploration on topic in exterior space/courtyard
-being primary school since the presence of extensive school programme compared to kindergarden or creche while targetting younger age group as to secondary or highschools.
-possible future improvements and connections with neighbour kindergarden (infanzia) and creche (nido), allowing opportunity of further investigations on topic with different age groups.

GREEN CONNECTION

Scale 1/5000

URBAN MORPHOLOGY

Modern Free Urban Block

Adjacent Urban Block

Non-Adjacent Urban Block
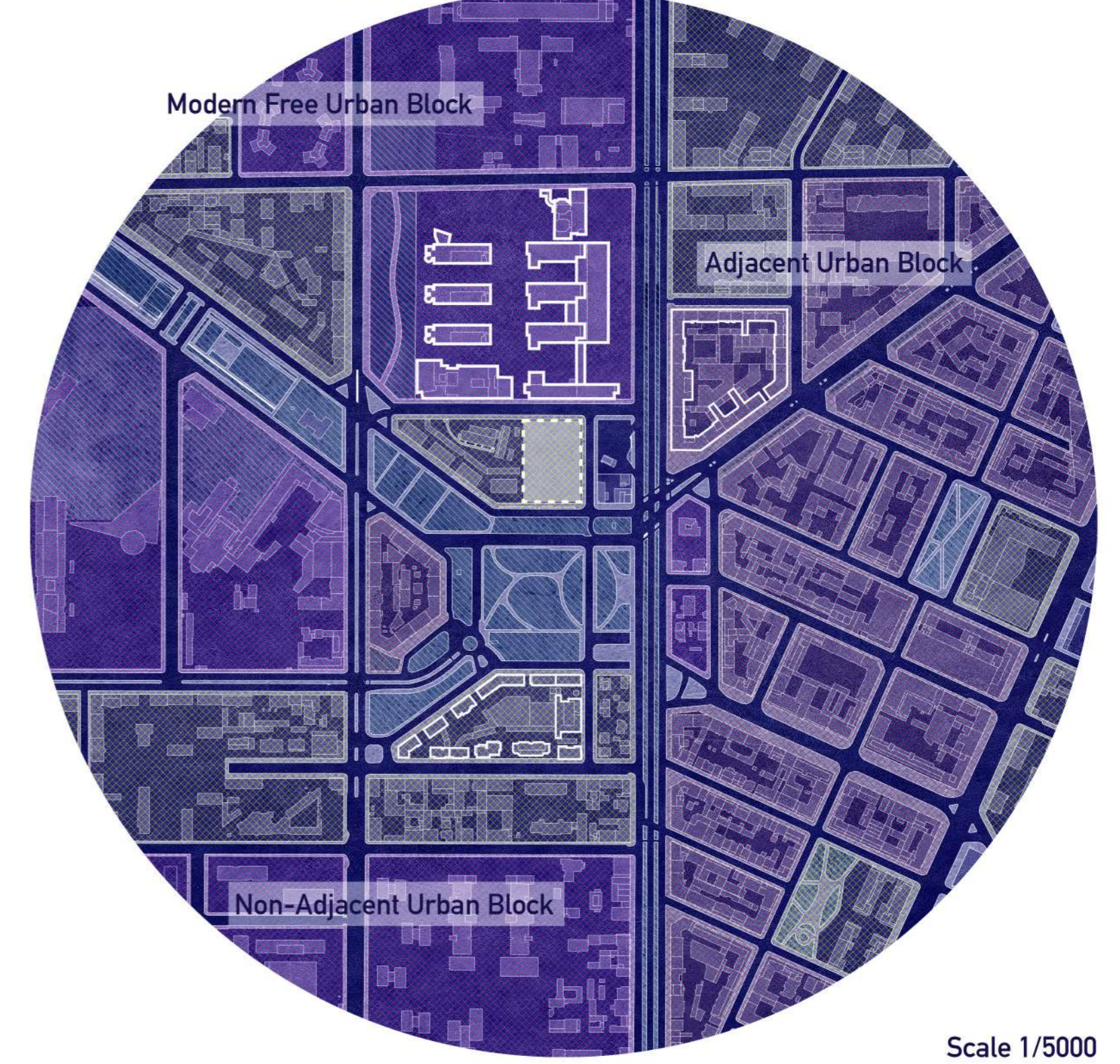
Scale 1/5000
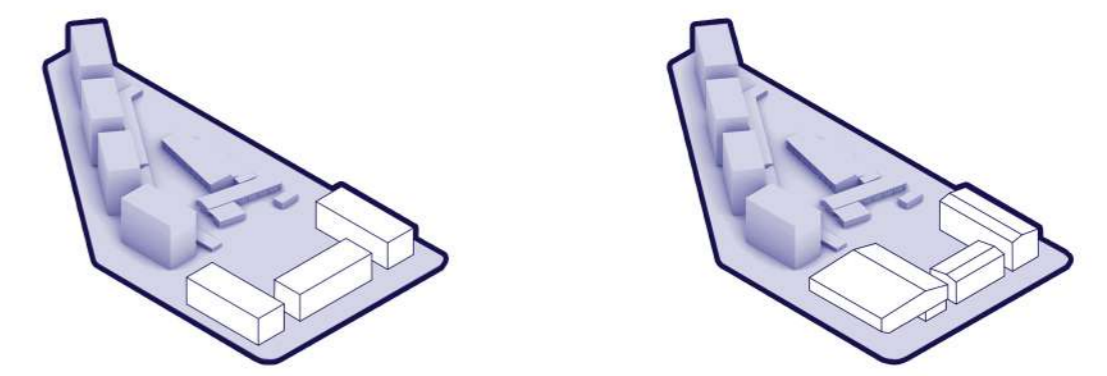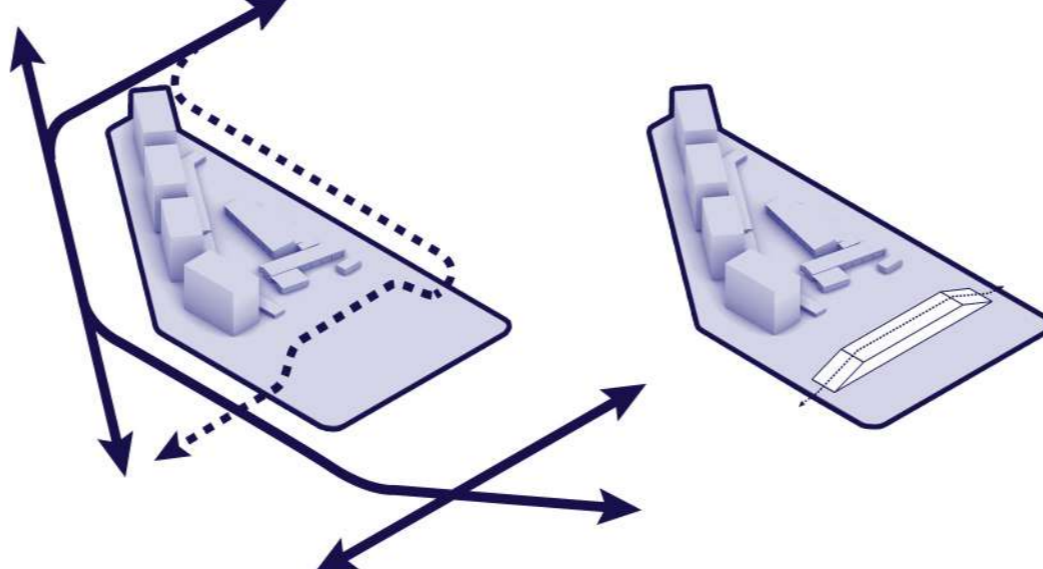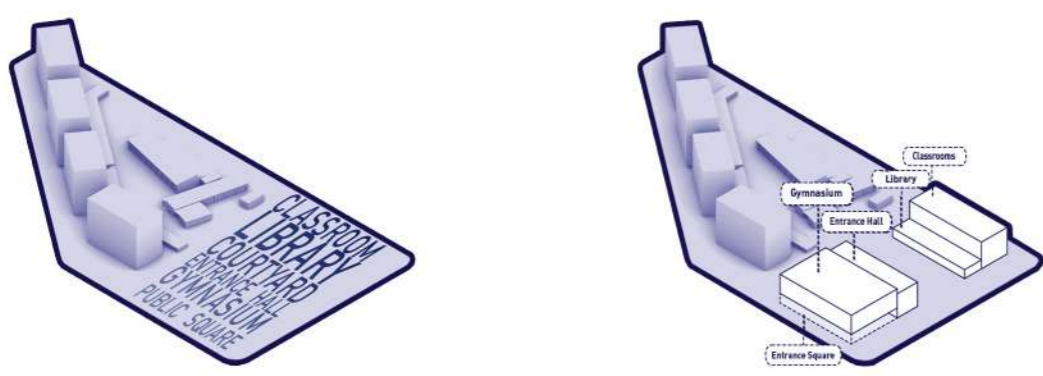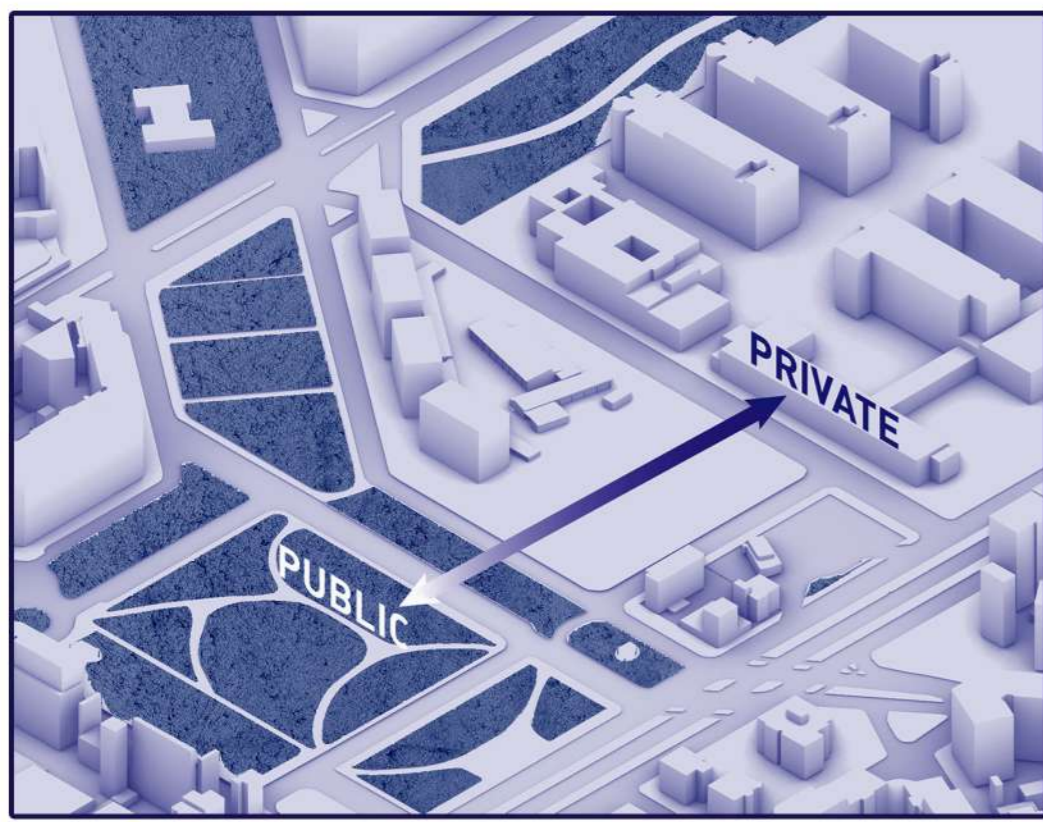
PRIVATE

PUBLIC

Gradual transition between public to private is intended to break this tension. To achieve this intention, the public square is extended to site and while public shared functions as gym and entrance hall are placed facing the square, private school spaces as classrooms, library are placed facing the Via Massaua.

A new route of green is planned to pass through site in the aim of strenghtening the green network while connecting neighbour schools. This public pass will provide an alternative connection not only for the project school but also to the residential and commercial neighbourhood. Public pass is elevated due to security consideration of school and requirement of seperation of public and private spaces.
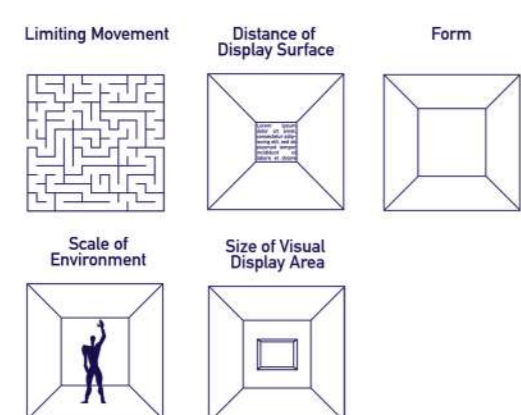

Non-adjacent urban block priciple is decided to be followed. Therefore three side of school site which are facing the perimeter of urban plot are required to shaped with volumes. On the front facade that faces to public square, street alignment with existing buildings is considered.
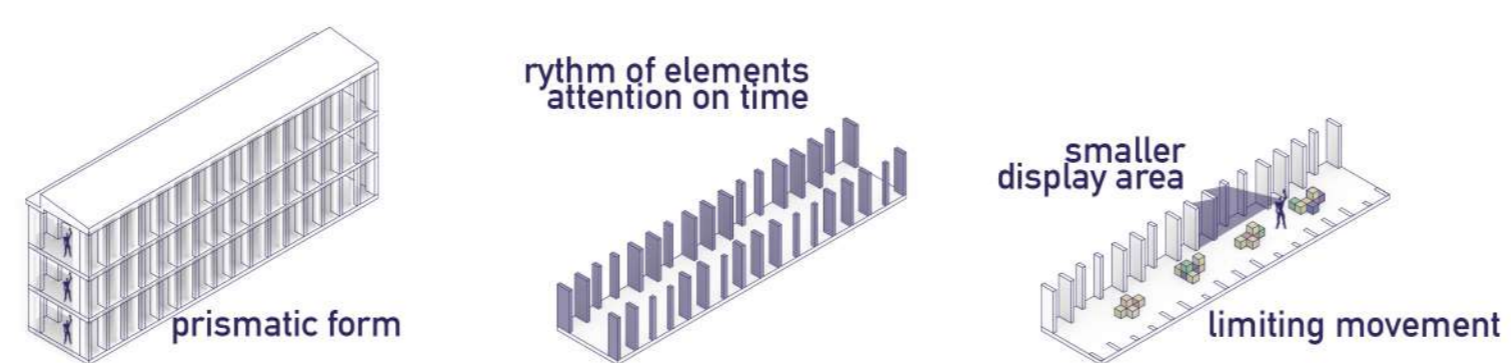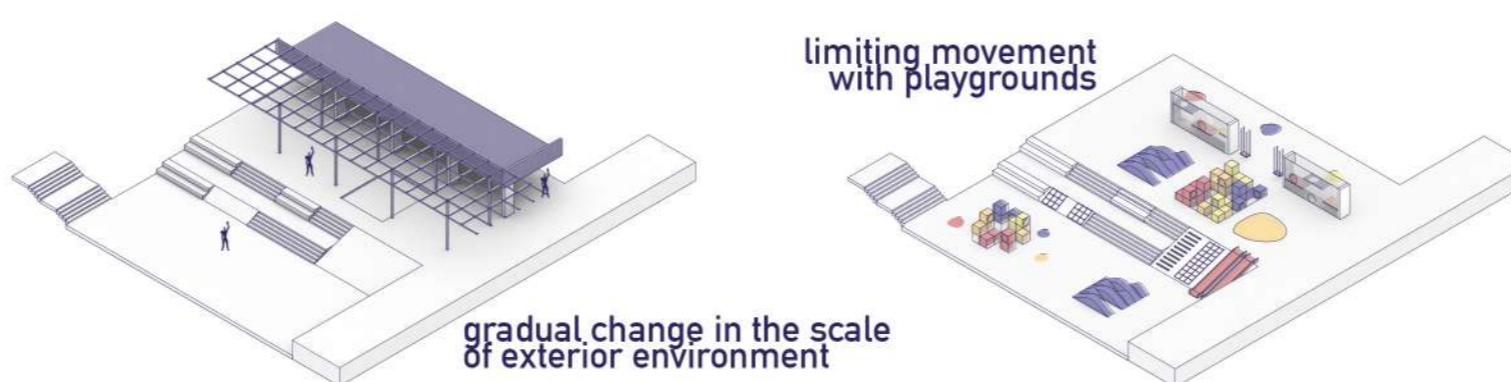
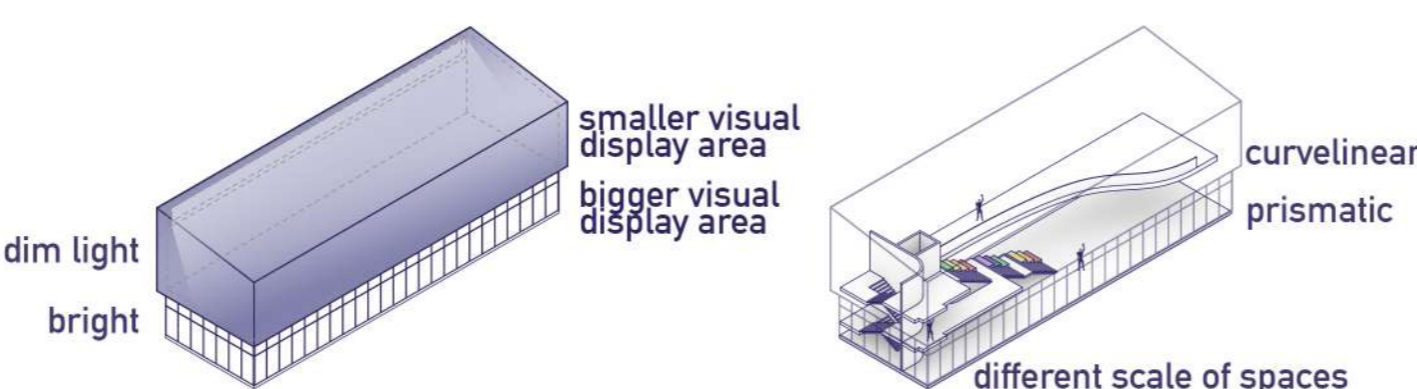# DESIGN PRINCIPLES FOR SCHOOL SPACES

CLASSROOM

Distance of Display Surface | Brightness | Form | Scale of Environment | Action & Changes | Size of Visual Display Area
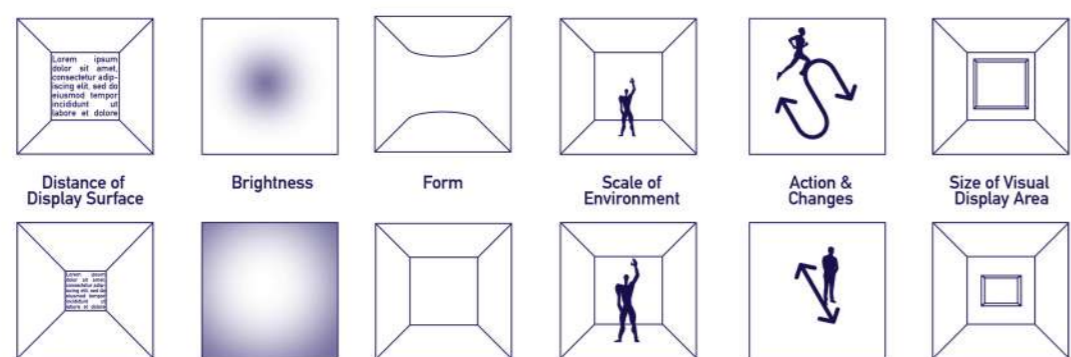
COMMON SPACE INTERIOR/EXTERIOR

Limiting Movement | Distance of Display Surface | Form | Scale of Environment | Size of Visual Display Area

INTERIOR
prismatic form
rythm of elements attention on time
smaller display area
limiting movement

EXTERIOR
gradual change in the scale of exterior environment
limiting movement with playgrounds

ENTRANCE HALL

Brightness | Form | Scale of Environment | Size of Visual Display Area

dim light
bright

smaller visual display area
bigger visual display area

curvelinear
prismatic

different scale of spaces

CIRCULATION (VERTICAL)

Form | Scale of Environment | Action & Changes | Size of Visual Display Area

no openings
prismatic form

no changes
smaller scale

CLASSROOM PROTOTYPE

TRADITIONAL CLASSROOM | AIM

DISPLAY DISTANCE

central | group study

DISPLAY AREA

bigger | smaller

BRIGHTNESS

dim | bright

FORM

angular | curvilinear

angular | curvilinear

SCALE OF THE ENVIRONMENT

age 6-11

smaller | bigger

different roof levels | different roof levels
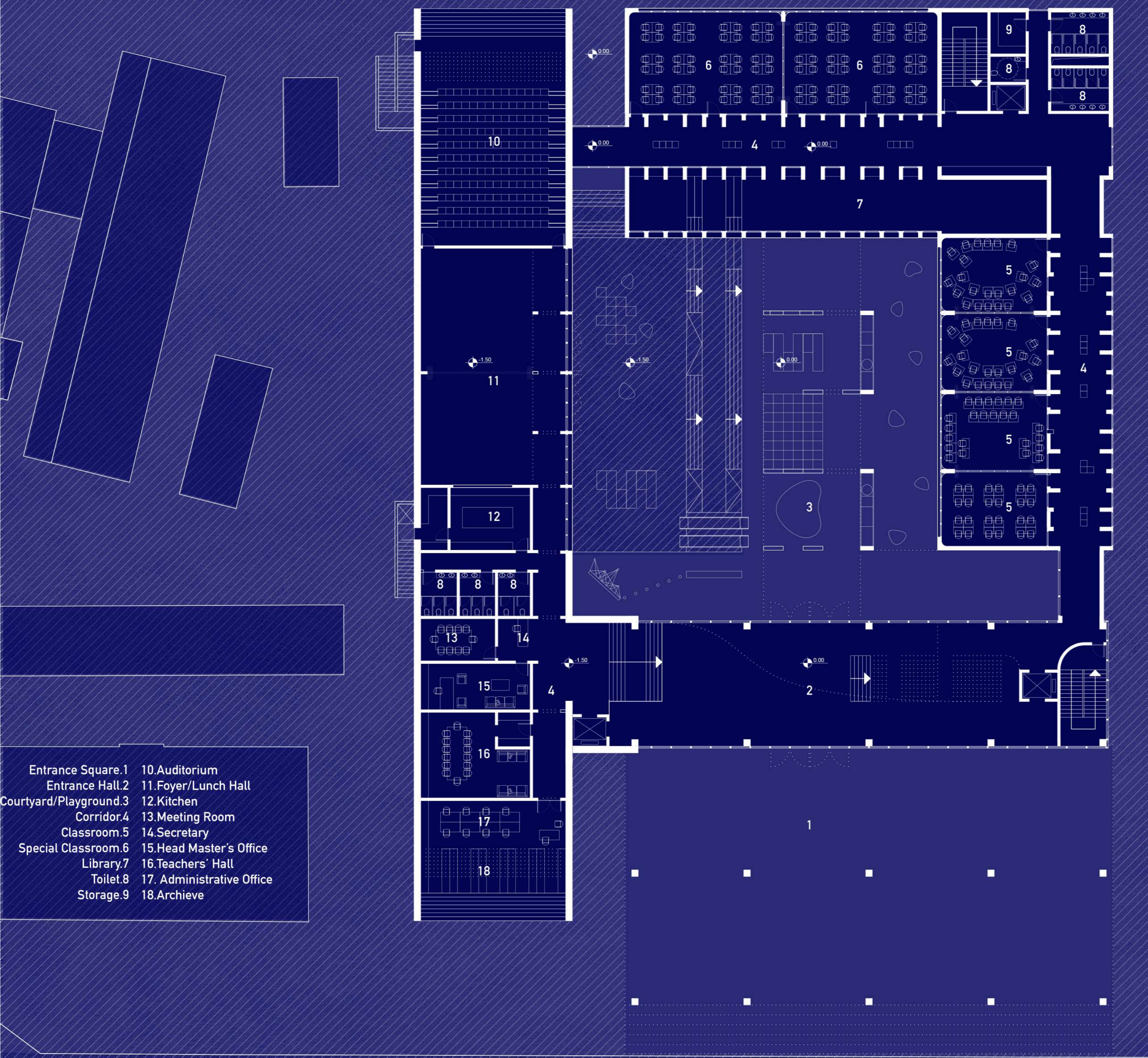
VIA MASSAUA

VIALE ERGISTO BEZZI

VIALE CATERINA DA FORLI

PIAZZALE TRIPOLI

SITE PLAN
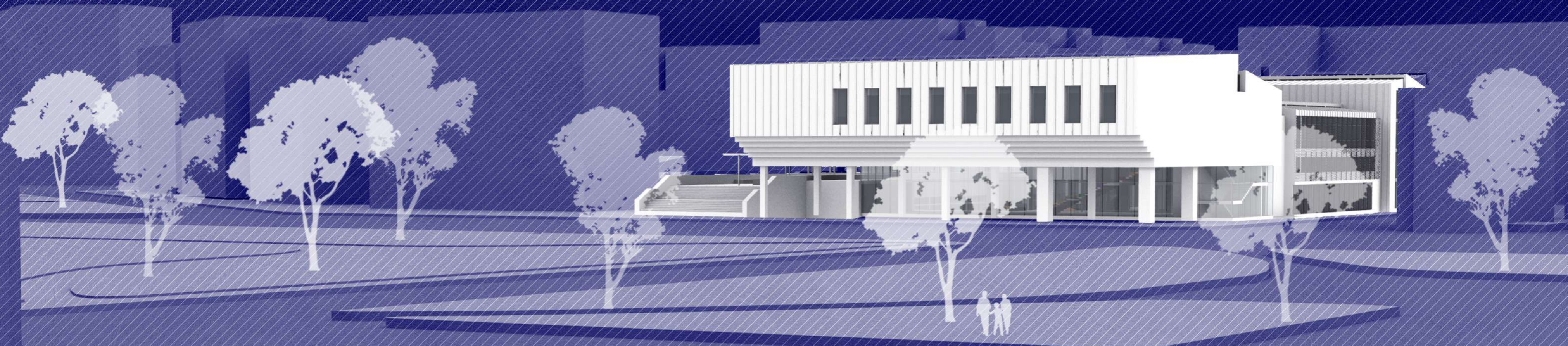SCALE 1/500

GROUND FLOOR PLAN +0.00

Entrance Square.1   10.Auditorium
Entrance Hall.2   11.Foyer/Lunch Hall
Courtyard/Playground.3 12.Kitchen
Corridor.4   13.Meeting Room
Classroom.5   14.Secretary
Special Classroom.6   15.Head Master's Office
Library.7   16.Teachers' Hall
Toilet.8   17. Administrative Office
Storage.9   18.Archieve

SCALE 1/200

NORTH-EAST ELEVATION

SCALE 1/200

Entrance Square.1
Entrance Hall.2
Courtyard/Playground.3
Corridor.4
Classroom.5

8.Toilets
9.Storage
19.Terrace
20.Puclic Pass

SCALE 1/200

SECTION A-A'

SCALE 1/200

SECTION B-B'

SCALE 1/200

SECOND FLOOR PLAN +6.00
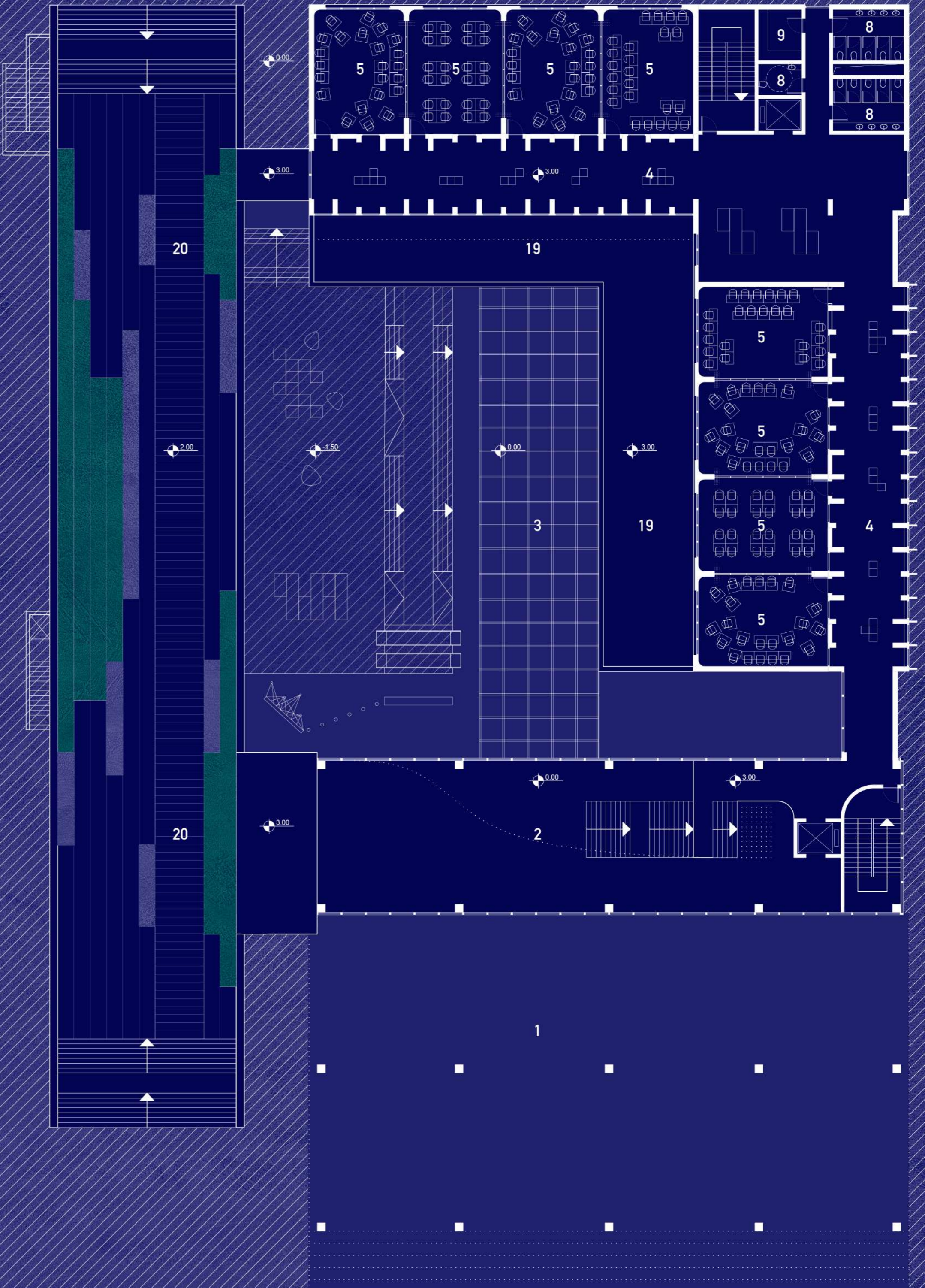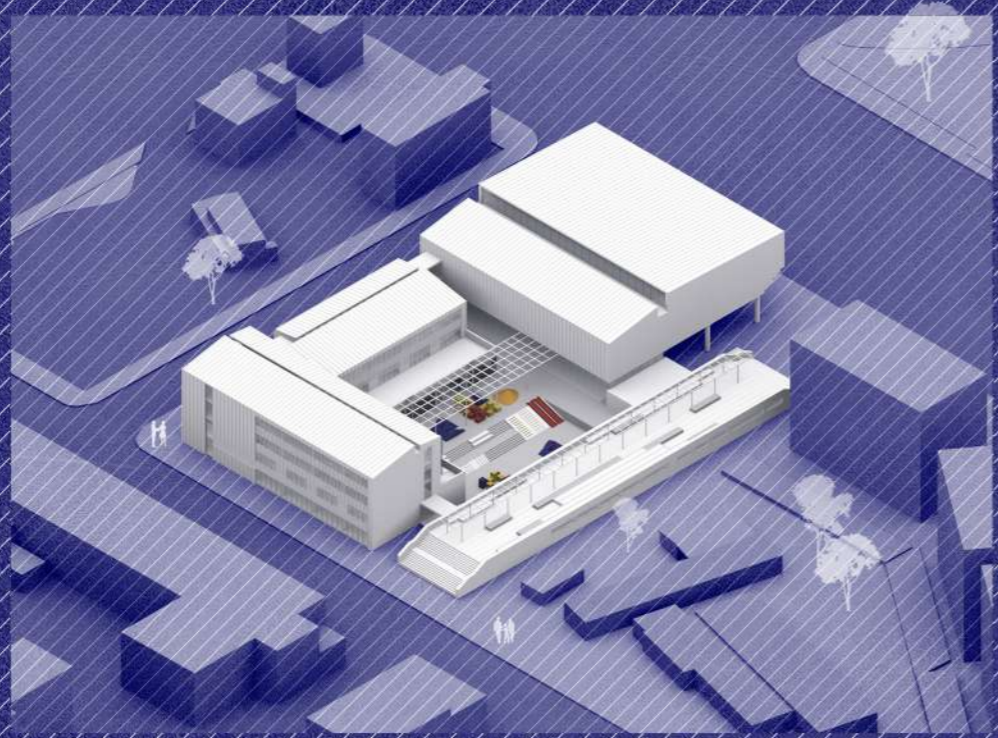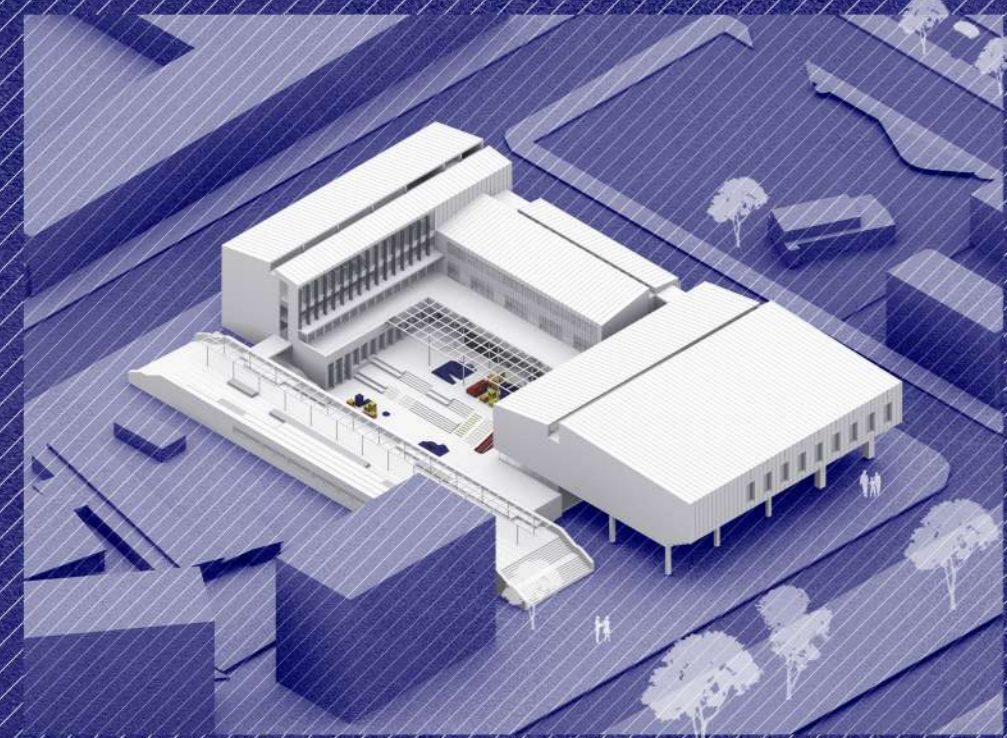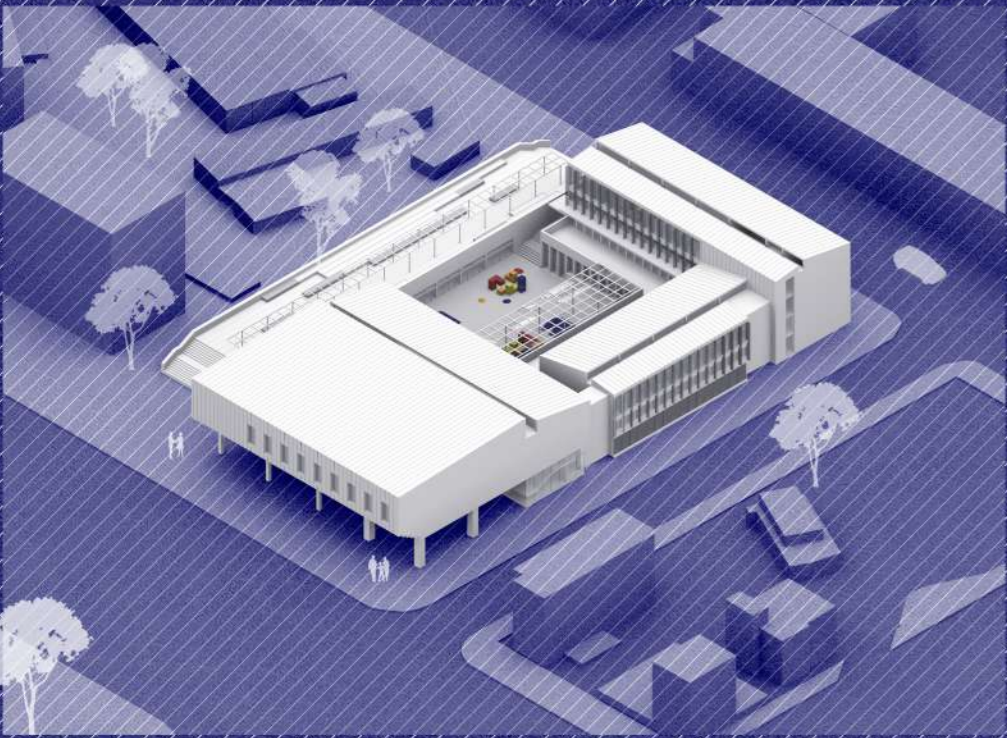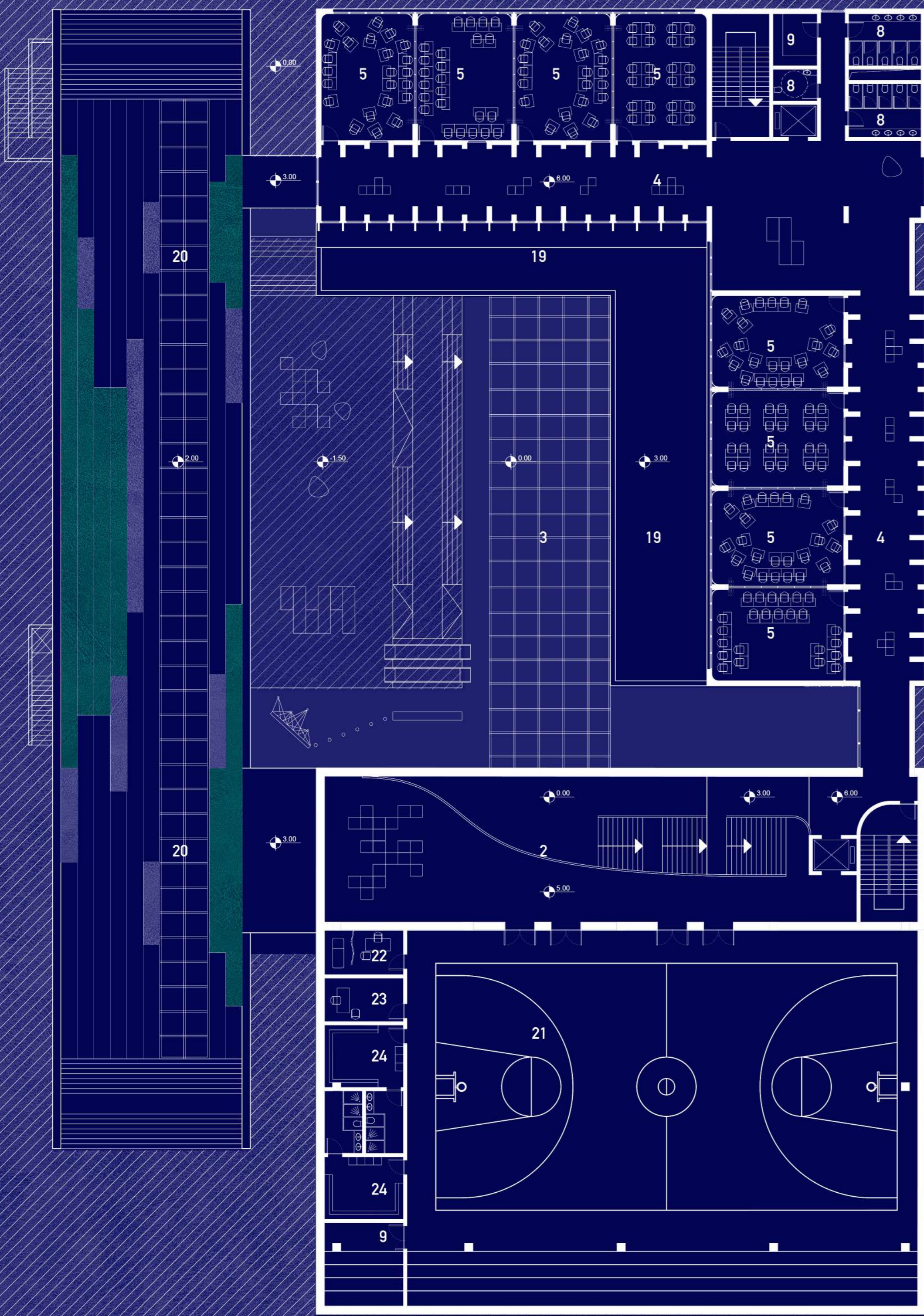
Entrance Square.1
Entrance Hall.2
Courtyard/Playground.3
Corridor.4
Classroom.5
Toilet.8
Storage.9

19.Terrace
20.Puclic Pass
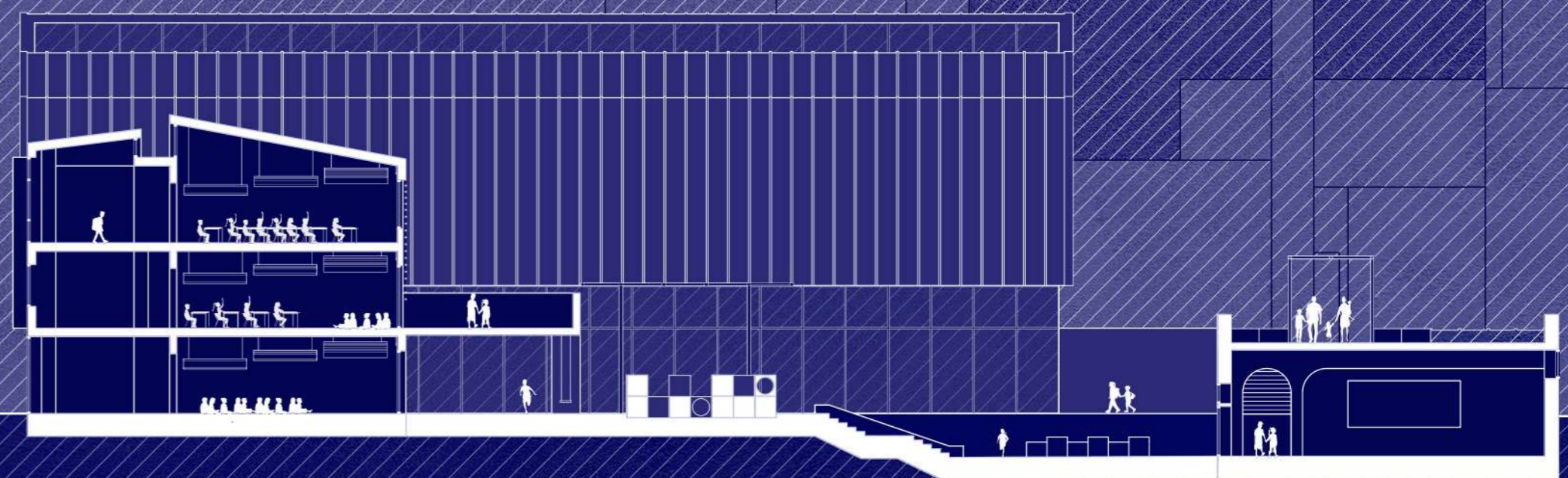21.Gymnasium
22.Infirmary
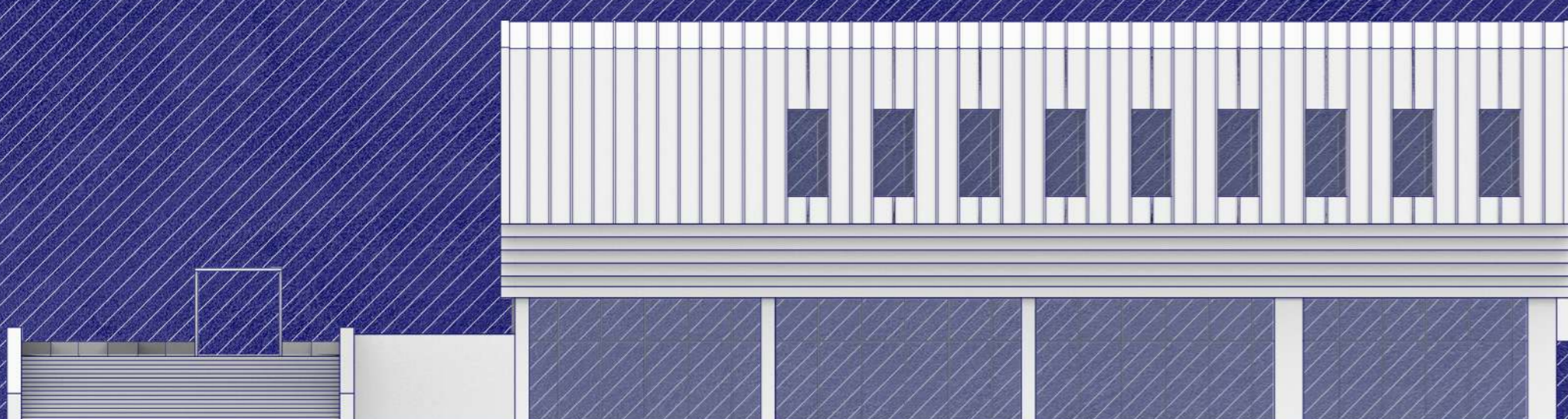23.Coach's Room
24.Dressing Room

SCALE 1/200
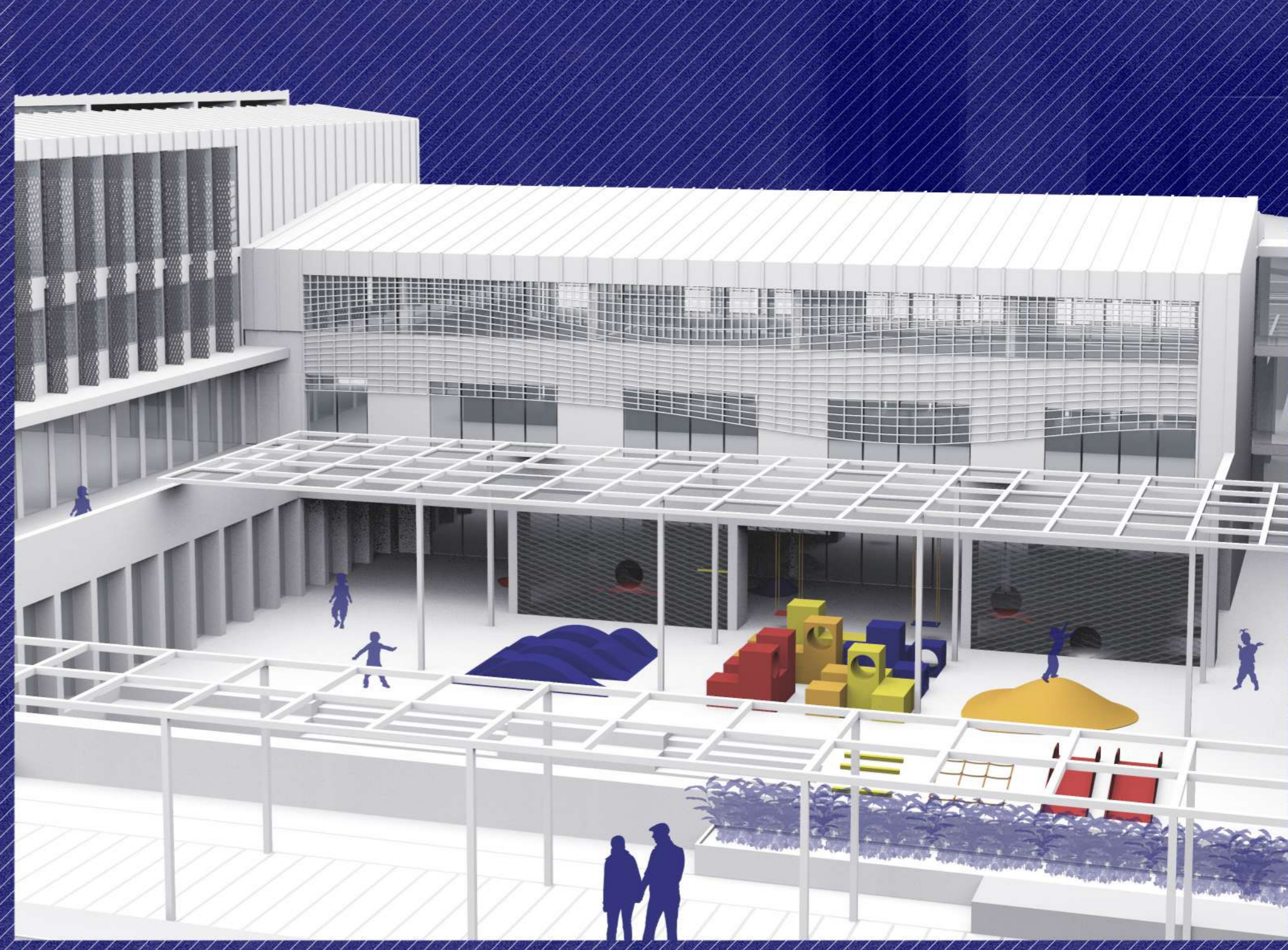
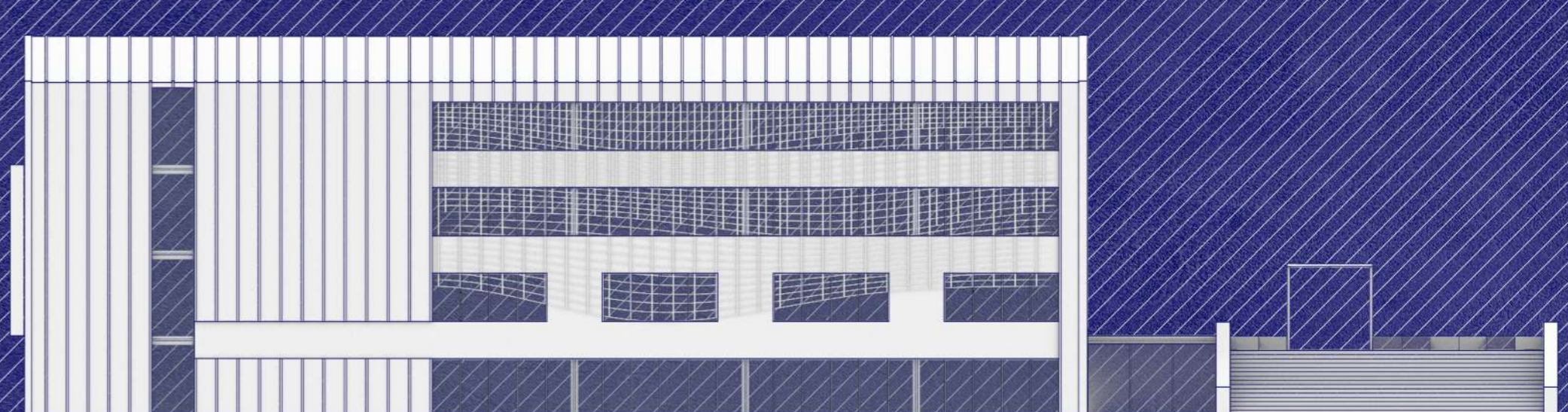## SECTION C-C'
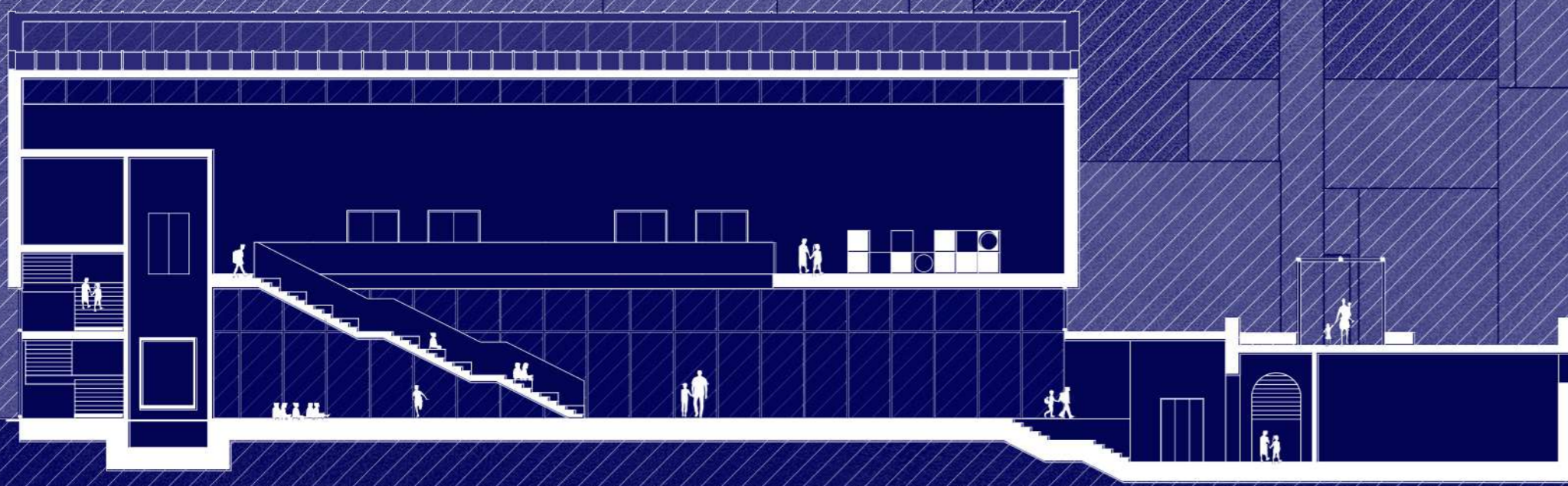
SECTION D-D'
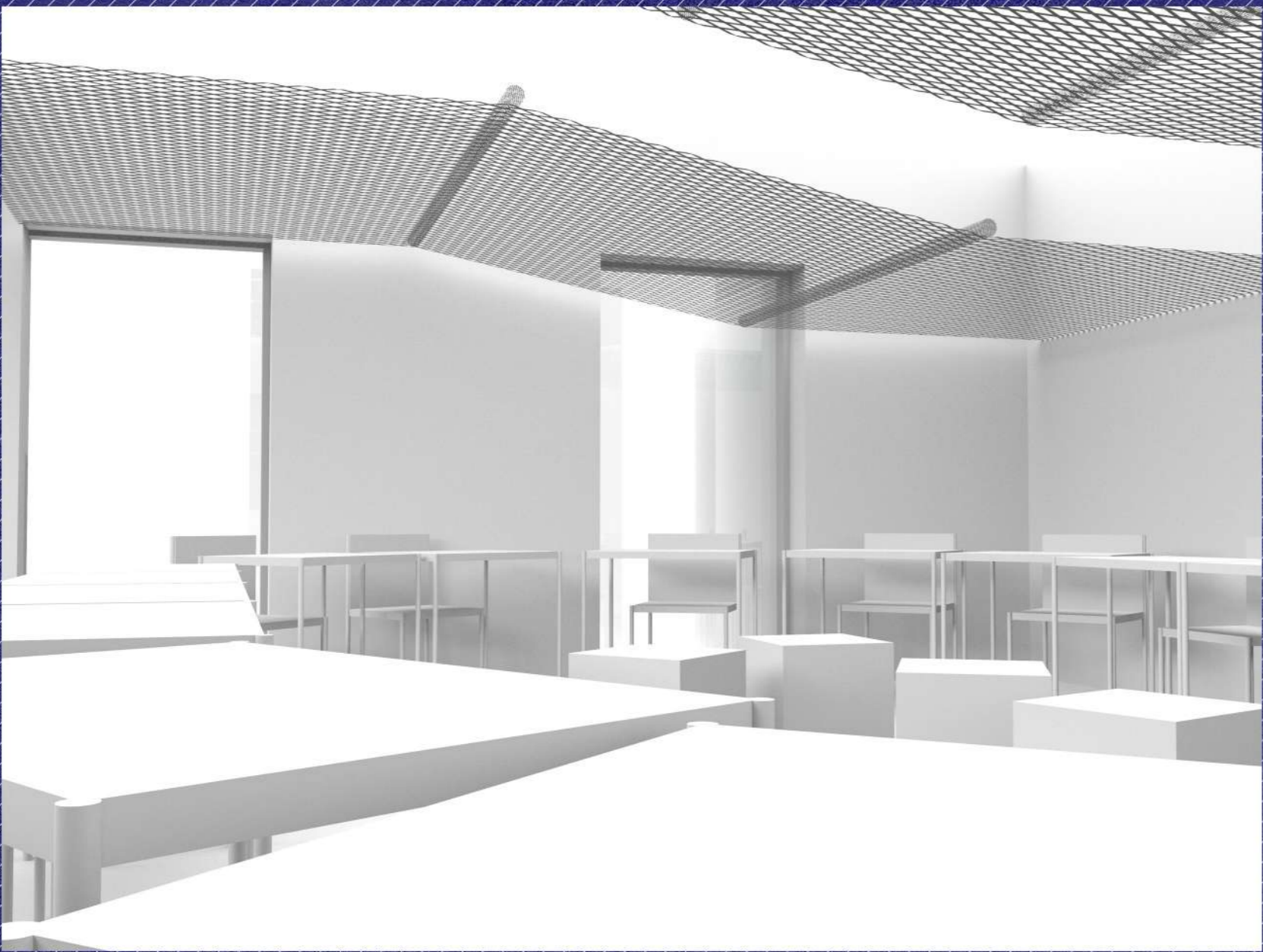

SCALE 1/200

SOUTH-EAST ELEVATION

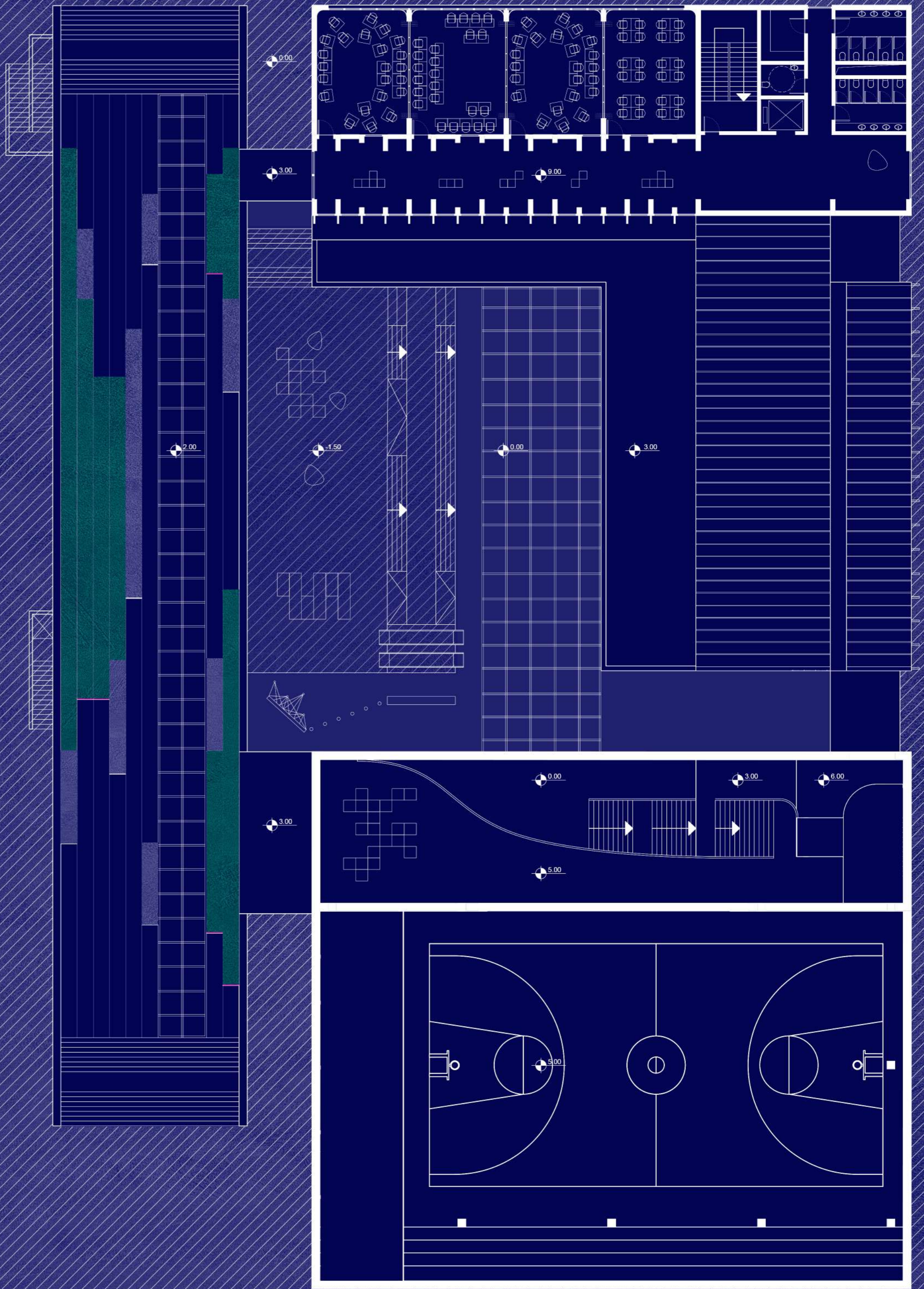## NORTH-WEST ELEVATION

SCALE 1/200

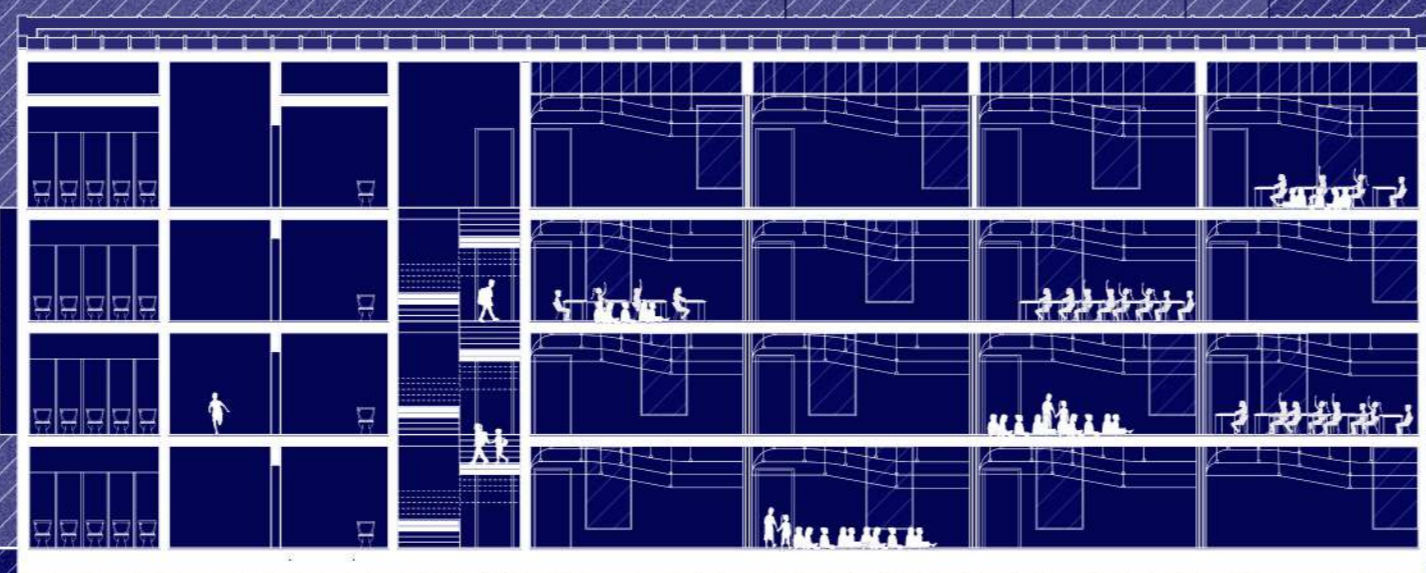CLASSROOM FOR FASTER TIME EXPERIENCE
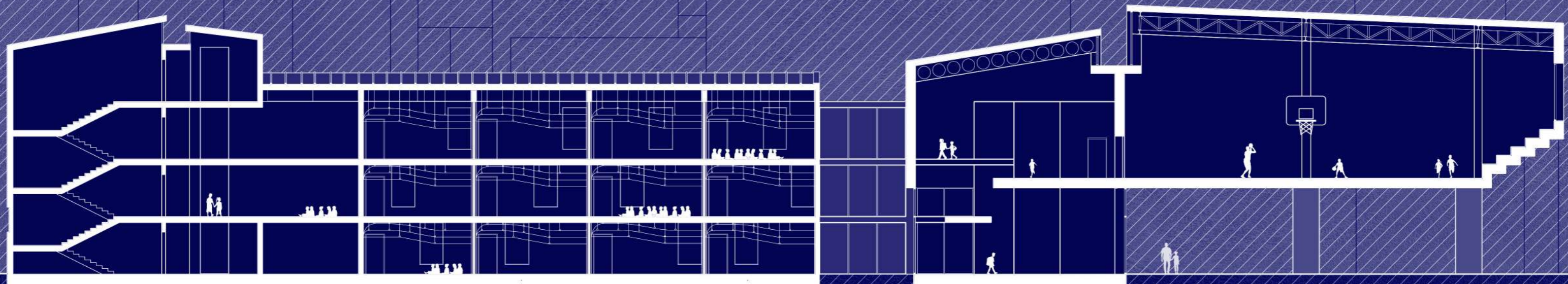

CLASSROOM FOR SLOWER TIME EXPERIENCE

SCALE 1/200

SECTION E-E'

SCALE 1/200

SECTION F-F'

SCALE 1/200