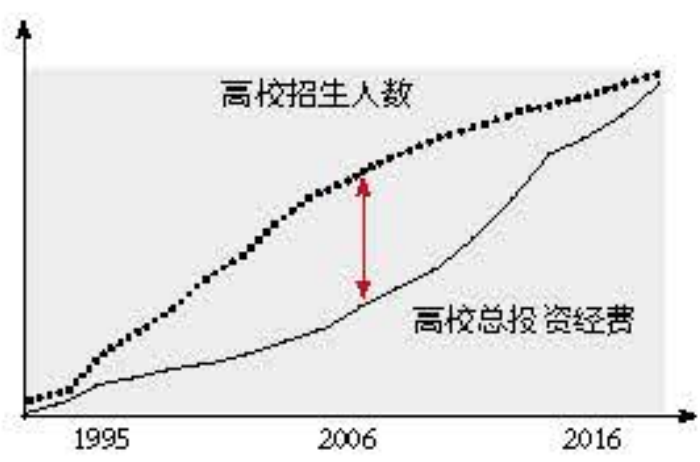




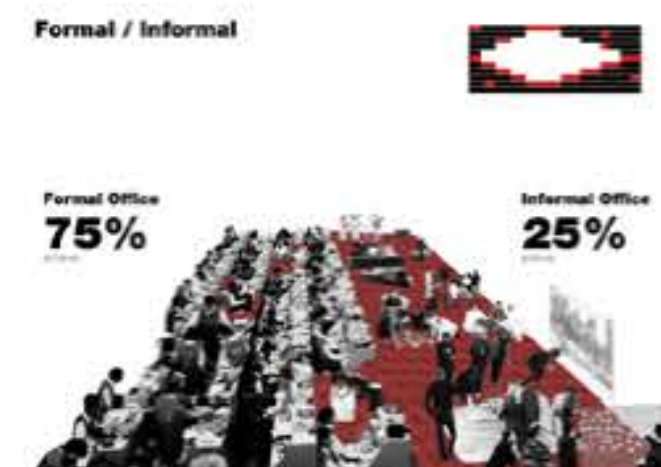


1. 研究背景
Background

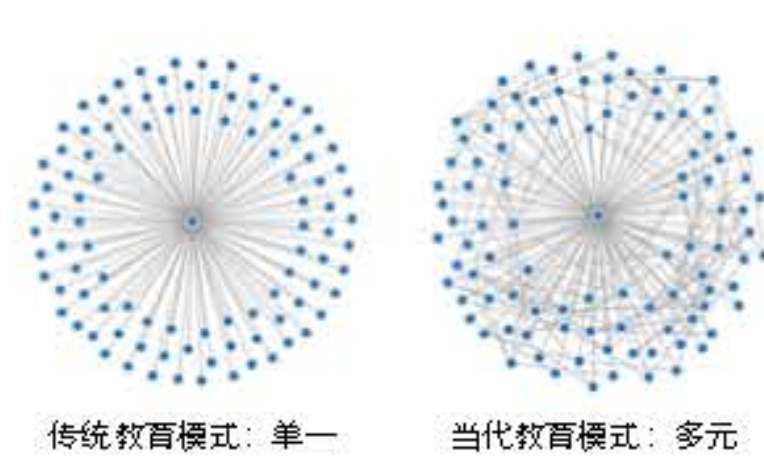
01 科技兴国与教育现代化
Rejuvenating The Country Through Science And Education



03 注重“非传统学习空间”设计实践
Non-Traditional Learning Spaces



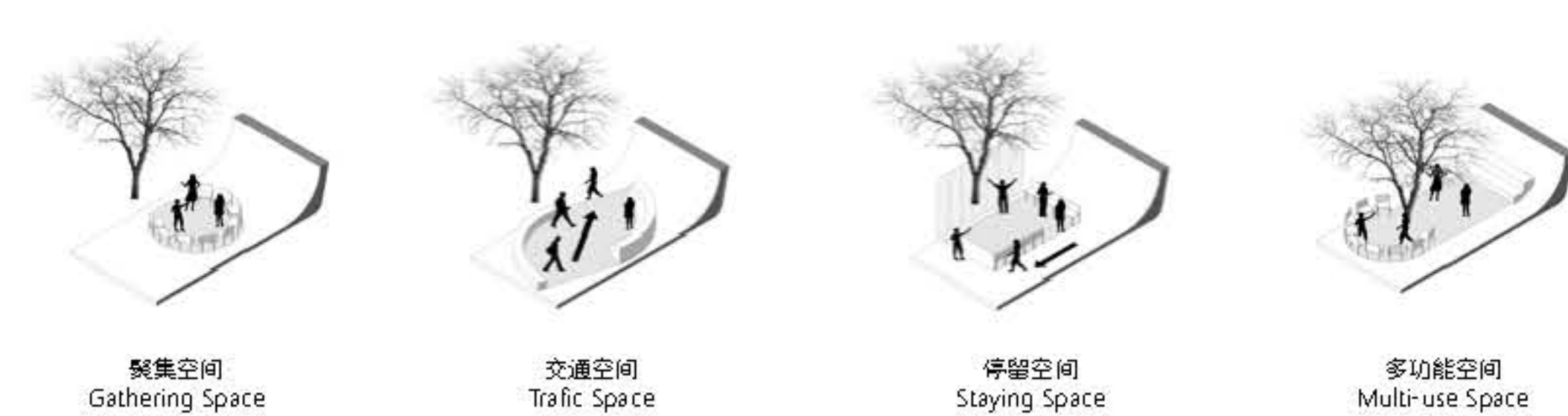
02 革新过程中的当代教育理念
Rejuvenating The Country Through Science And Education



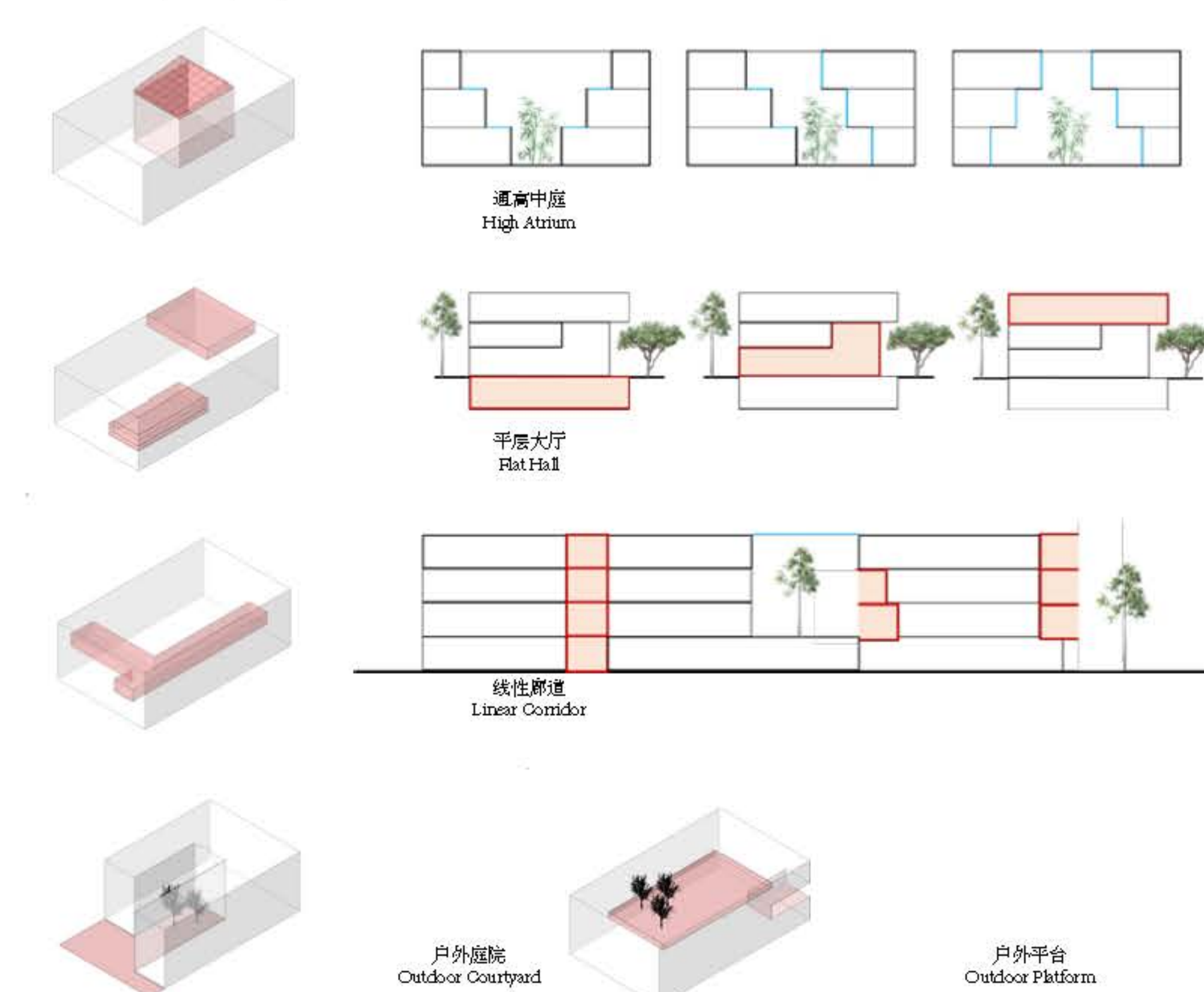
04 高校现存建筑公共空间现状
Insufficient Quality And Quantity Of Public Space



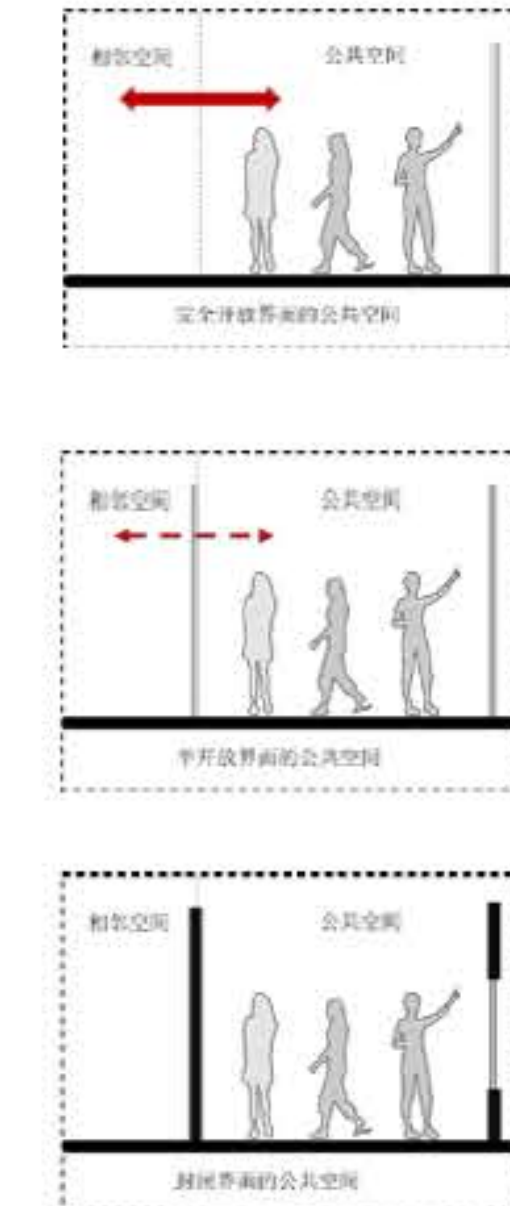
01 按照功能属性分类
Classification of Functional Attributes



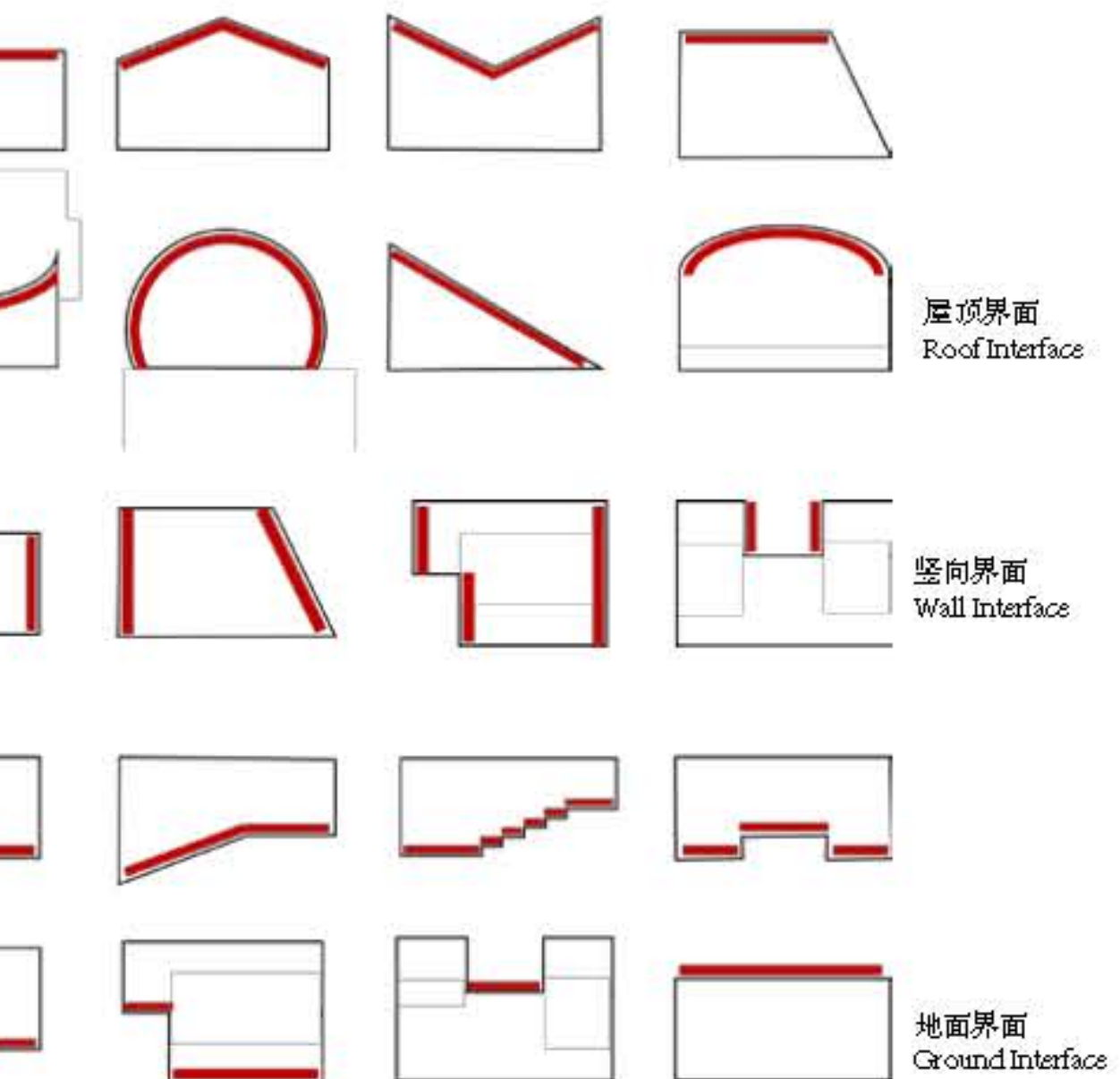
02 按照空间形态分类
Classification of Spatial Morphology



03 按照空间开放特征分类
Classification of Spatial Openness

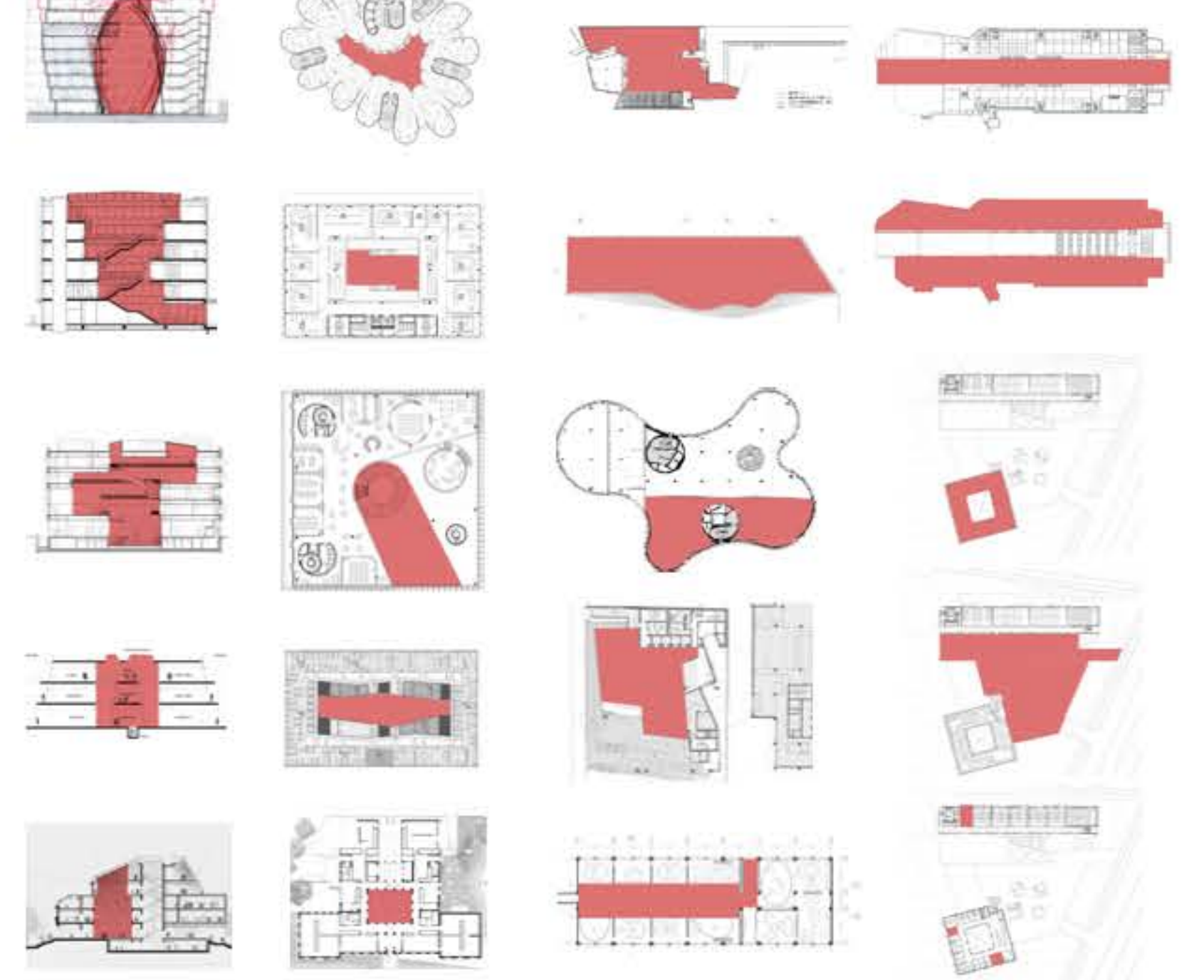


04 按照空间界面分类
Classification of Spatial Interface

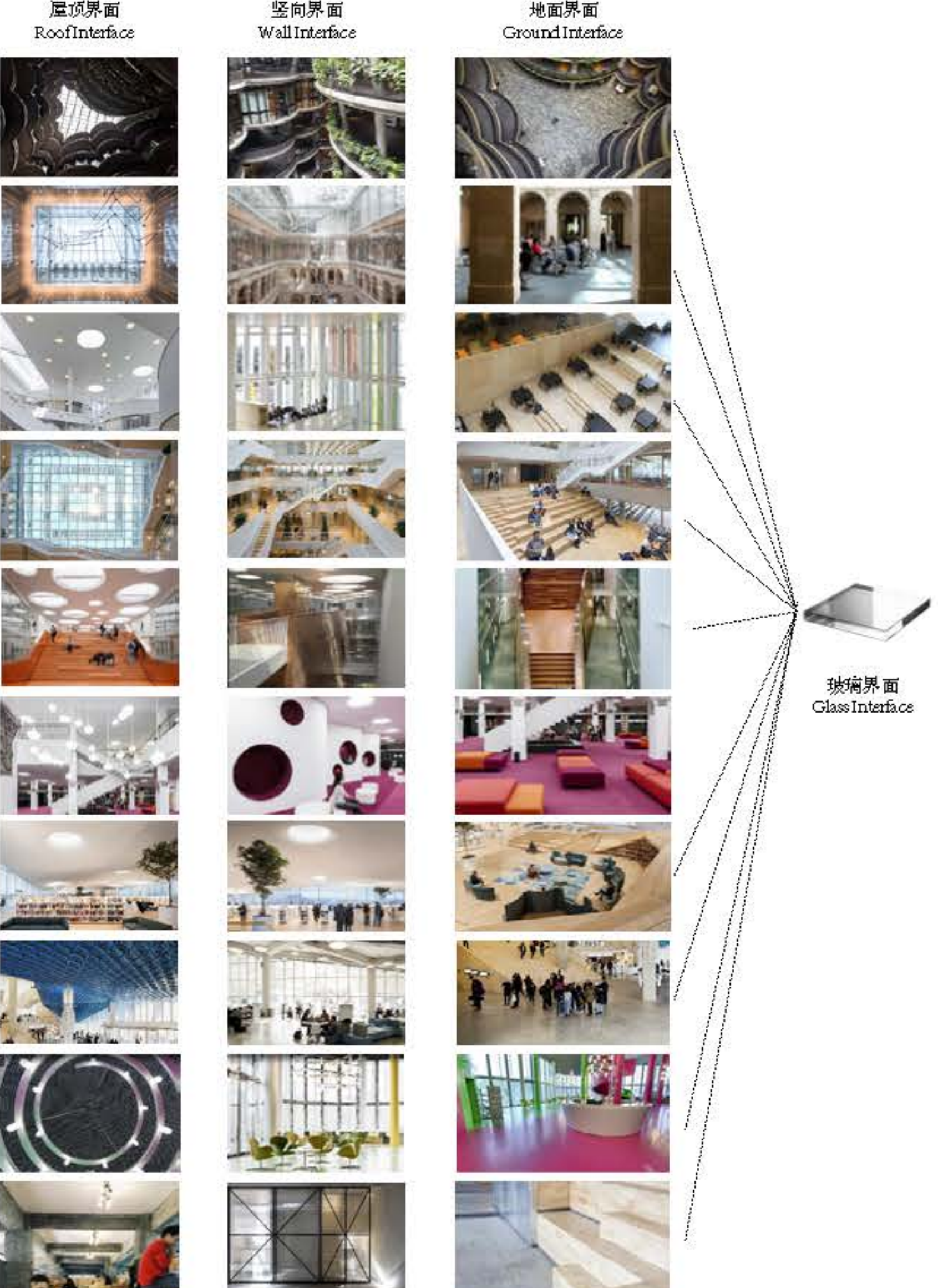


4 案例研究
Case Study

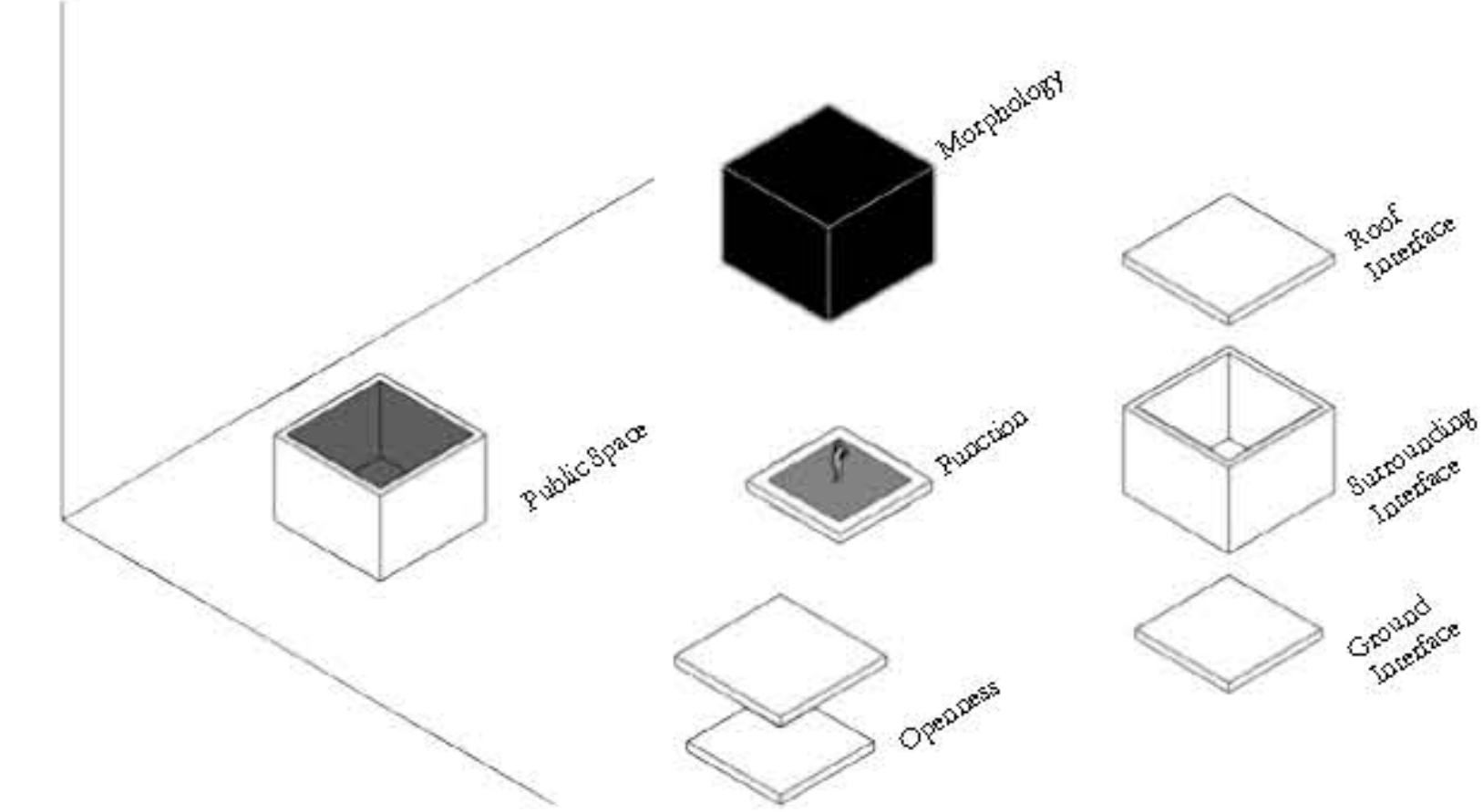
空间形态
Spatial Morphology



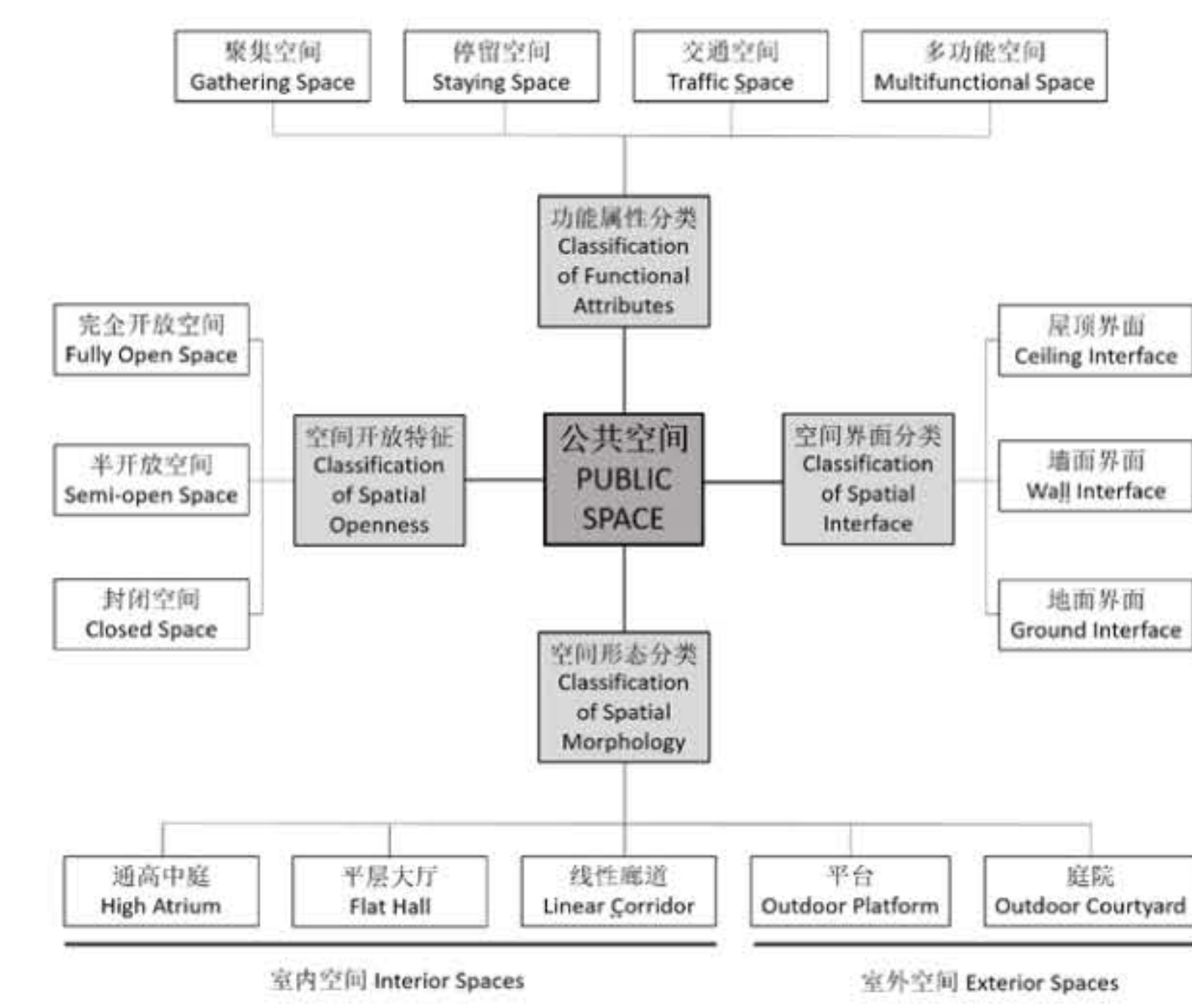
空间界面
Spatial Interface



2 高校建筑公共空间分类
Classification of Public Space in University Buildings



3 分类框架
Criteria of Classification



高校复合功能建筑公共空间研究

RESEARCH ON THE PUBLIC SPACE OF UNIVERSITY BUILDINGS WITH MULTI-FUNCTIONS

清华大学文北楼改扩建项目

WENBEI BUILDING RENOVATION AND EXPANSION PROJECT



03 建筑与地段

Building And Site

1. 地段位置

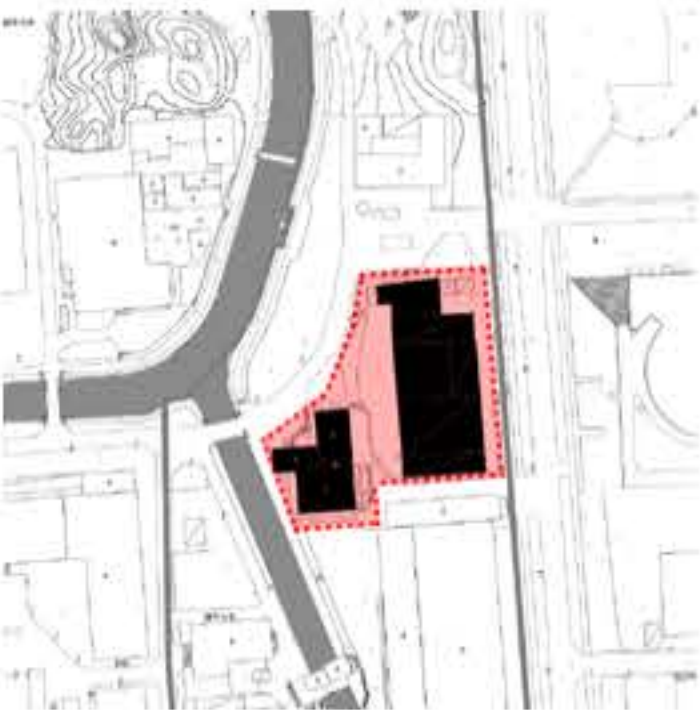
Site Location



01 北京市海淀区清华大学
Tsinghua University, Haidian District, Beijing



02 清华大学校园核心区
Core Location in the Campus



03 两个建筑：文北楼与地下粮仓
Two Building: Wenbei and Underground Granary

2. 地段分析

Site Analysis



01 核心区位
Core Location
项目设计需要考虑到周边建成环境的影响，如清华学舍与大礼堂建筑群、图书馆建筑群和文科图书馆出土文物馆建筑群的共同效应，确保新项目与已有建成环境自然和谐之间的对话。由于地段位于清华老校区（红区）和清华新校区（白区）交界处，项目在建筑语言、建筑材料等诸多方面既要与已有建筑文脉的提取，又要大胆尝试新的建筑语言以避免趋同。

02 交通组织复杂
Complex Traffic Organization
项目地块位于南北主干道十字路口西南侧。该十字路口是校园中重要的交通节点，一方面集中了南北方向清华中心食堂与文科图书馆在上下课高峰期的车流，期前以自行车为主的慢行代步工具为主；另一方面东西方向为连接新老校区的便捷通道，是师生从宿舍区经图书馆到达一教、二教和大礼堂的重要途径。地段西侧紧邻滨河景观带，是深受师生欢迎的慢行景观道路，也是连接新老校区的必经之路。

03 景观资源丰富
Rich Landscape Resources
地段西侧与北侧毗邻滨河景观带，有良好的景观与绿化优势。地段南侧三角地是一片宜人的松林和银杏石得地形花园，清雅自然，呼应了文科楼的主题。东侧主干道西侧的胡同是步行道，为地块界定出一圈自然的边界线。从地段位置上看，地块处于老校区边缘，依着地块现有的高度与建筑自身的高度（文北楼为校园中心区第二高楼，仅次于第六教学楼），西侧具有极佳的景观资源。



04 西北侧视野开阔
Broaden Horizons Towards Northwest

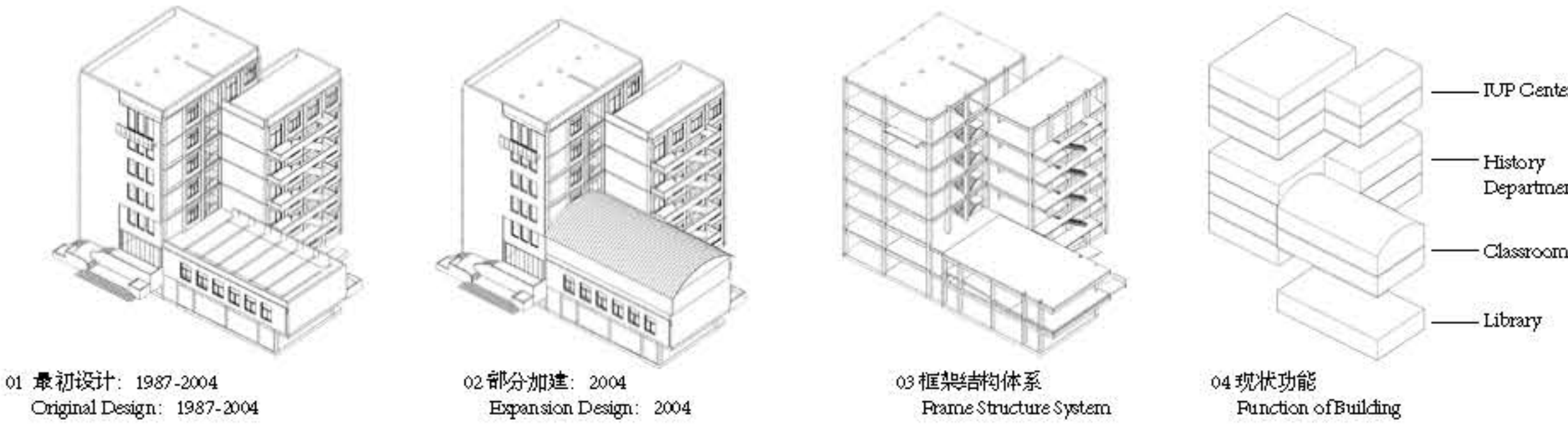
3. 文北楼

Wenbei Building



文北楼（亦称“社科楼”），建于1985年，1987年竣工，建筑面积3700平方米，7层，高28.9米。文科楼是人文社会科学学院办公的地方，目前是清华大学历史系（五层以下）和清华大学IUP中文中心（五层及以上）所在地。

Wenbei Building (also known as "Social Building"), located in the northern part of the campus center, across the river to the Tsinghua campus old campus section. The Wenbei Building was built in 1985 and completed in 1987. The building area is 3,700 square meters, 7 floors and 28.9 meters high. Wenbei is the office of the School of Humanities and Social Sciences. It is currently the history department of Tsinghua University (below 5 floors) and the IUP Chinese Center (5th floor and above) of Tsinghua University.



01 最初设计：1987-2004
Original Design: 1987-2004

02 部分加建：2004
Expansion Design: 2004

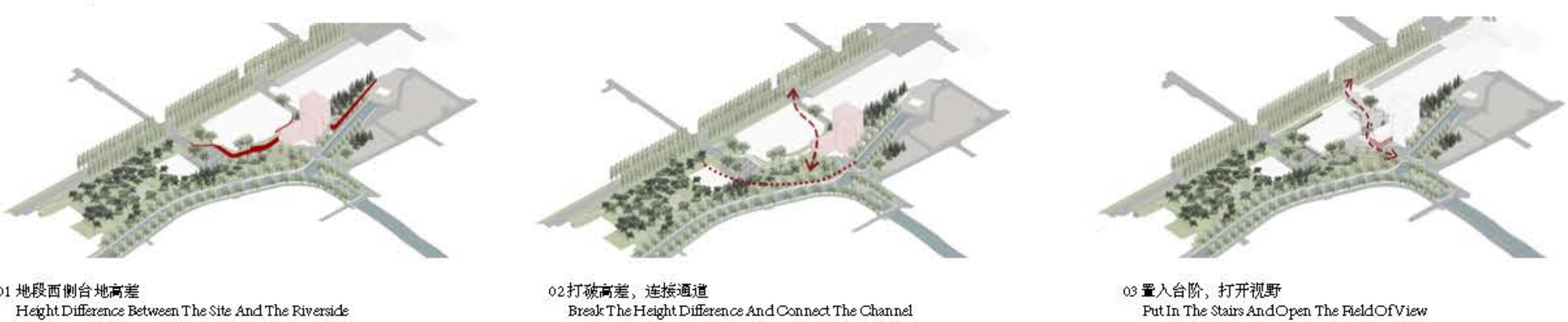
03 框架结构体系
Frame Structure System

04 现状功能
Function of Building

IUP Center
History Department
Classroom
Library

4. 场地设计概念

Site Design Concept



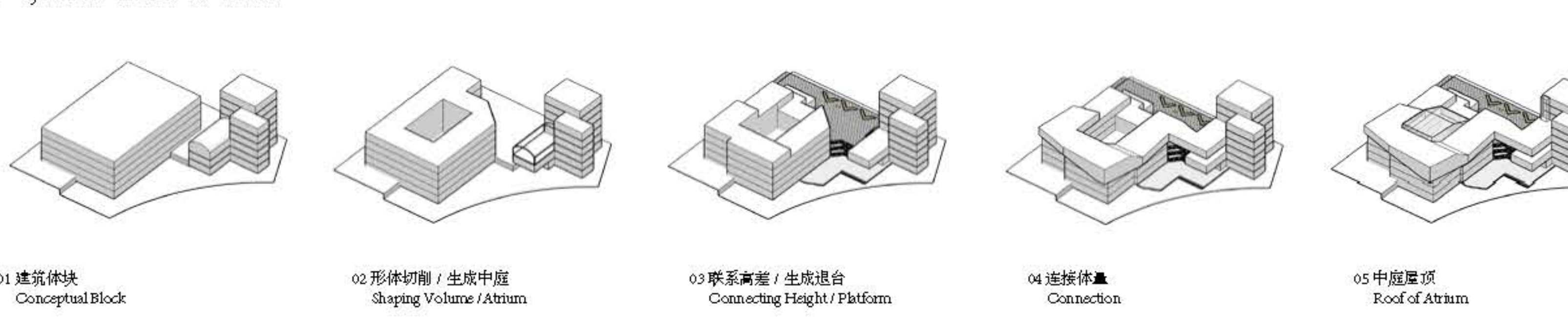
01 地段西侧台地高差
Height Difference Between The Site And The Riverside

02 打破高差，连接通道
Break The Height Difference And Connect The Channel

03 置入台阶，打开视野
Put In The Stairs And Open The Field Of View

5. 方案生成过程

Project Generation Process



01 建筑体块
Conceptual Block

02 形体切割 / 生成中庭
Shaping Volume / Atrium

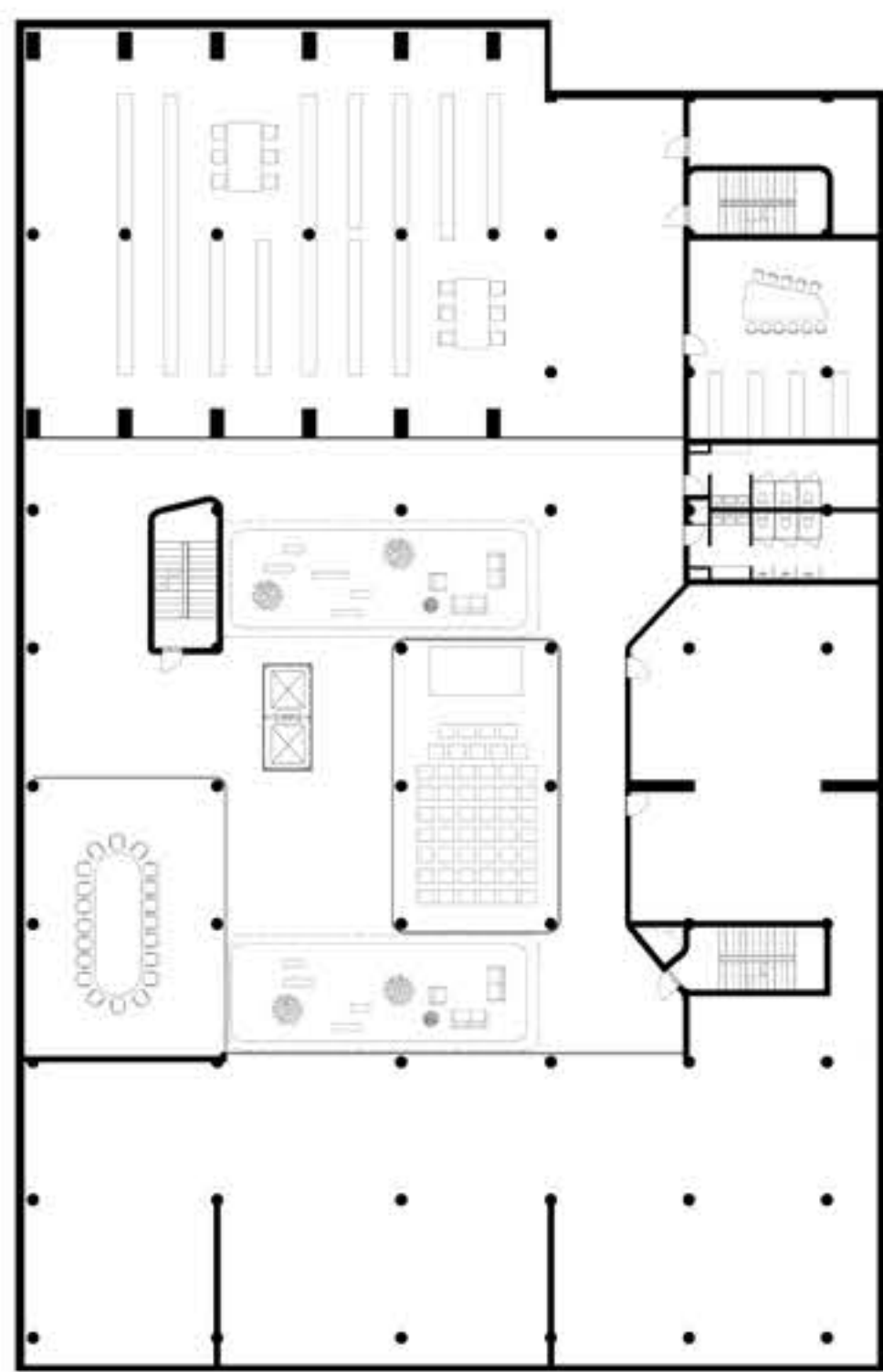
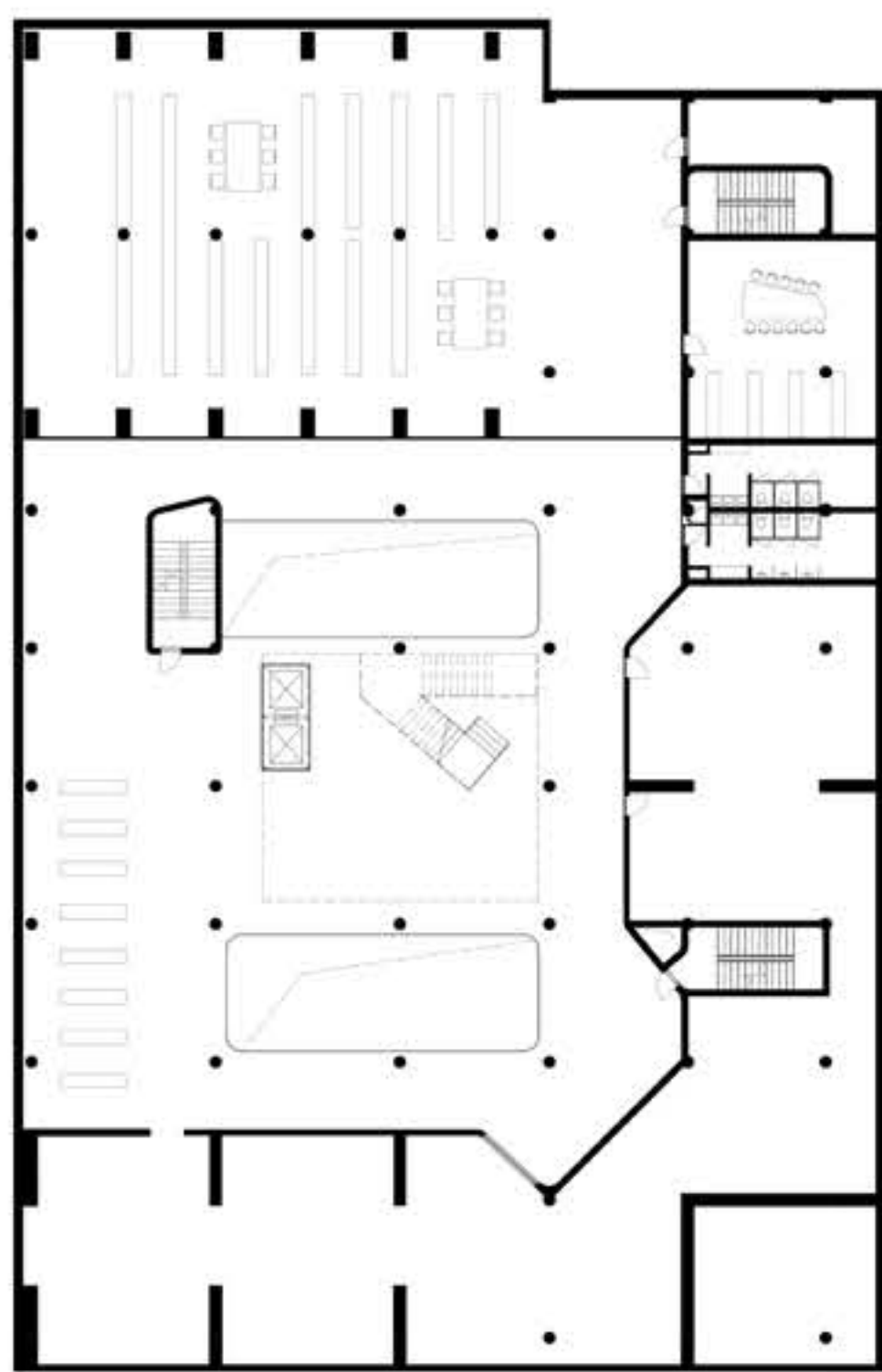
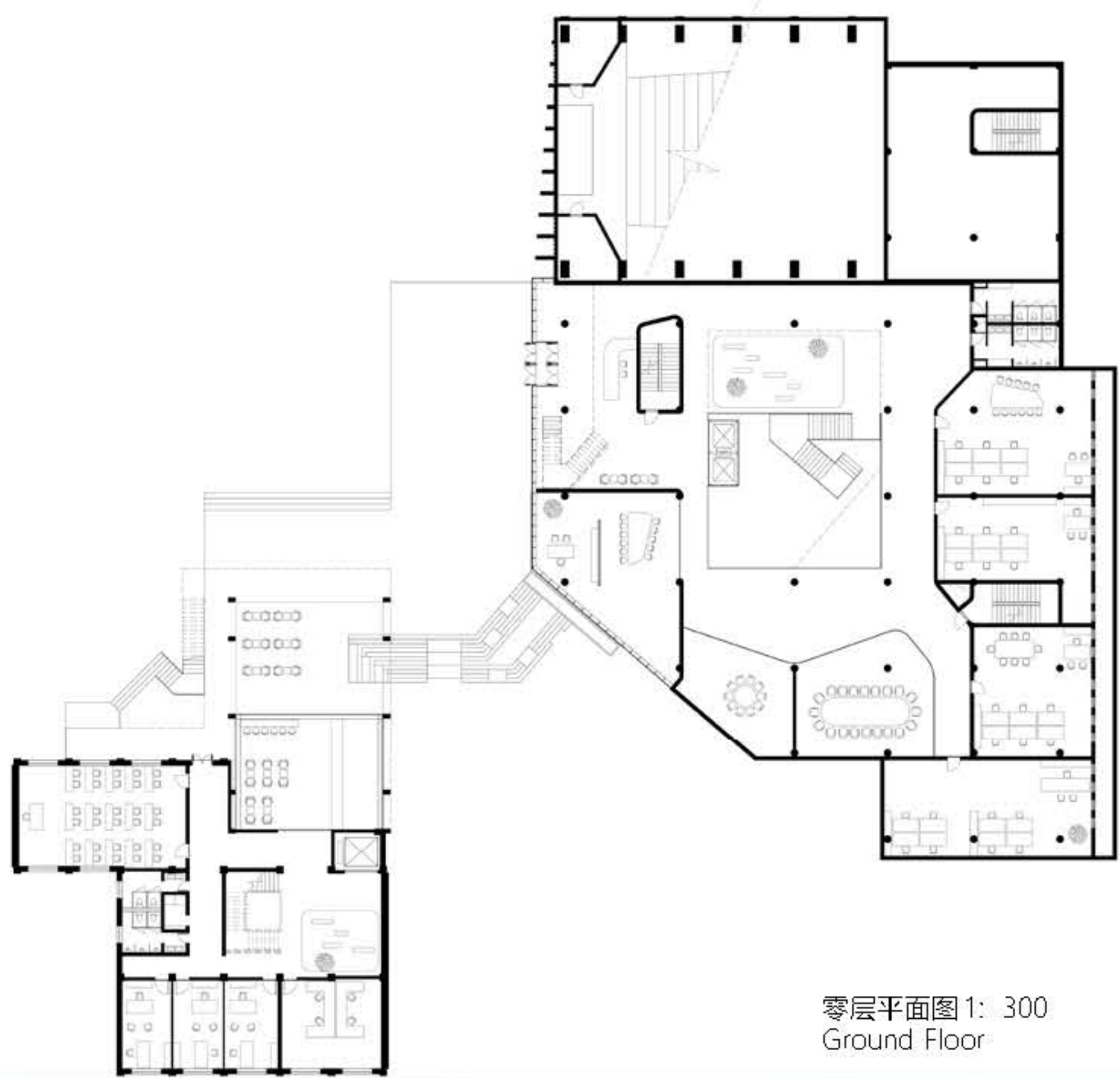
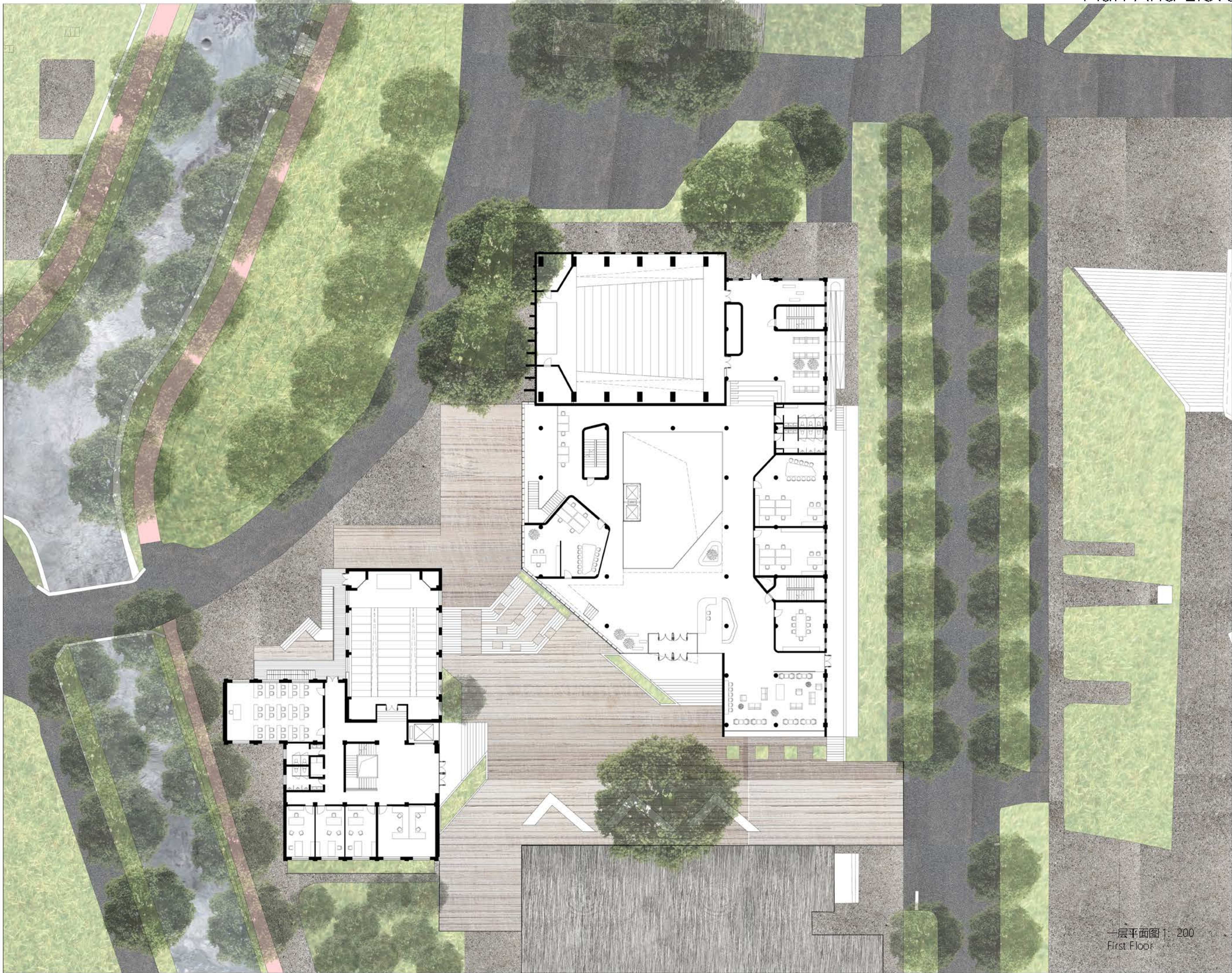
03 联系高差 / 生成退台
Connecting Height / Platform

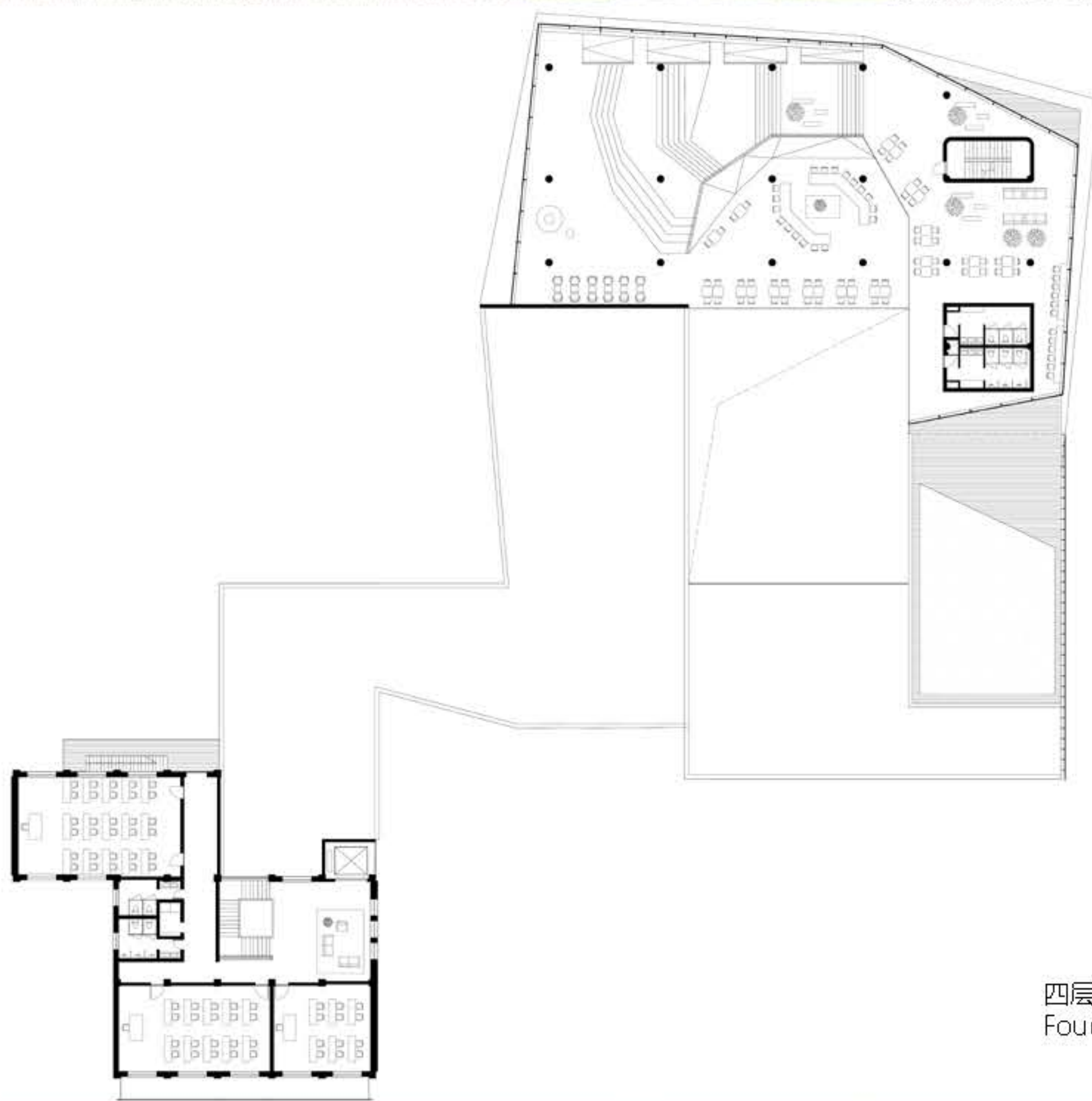
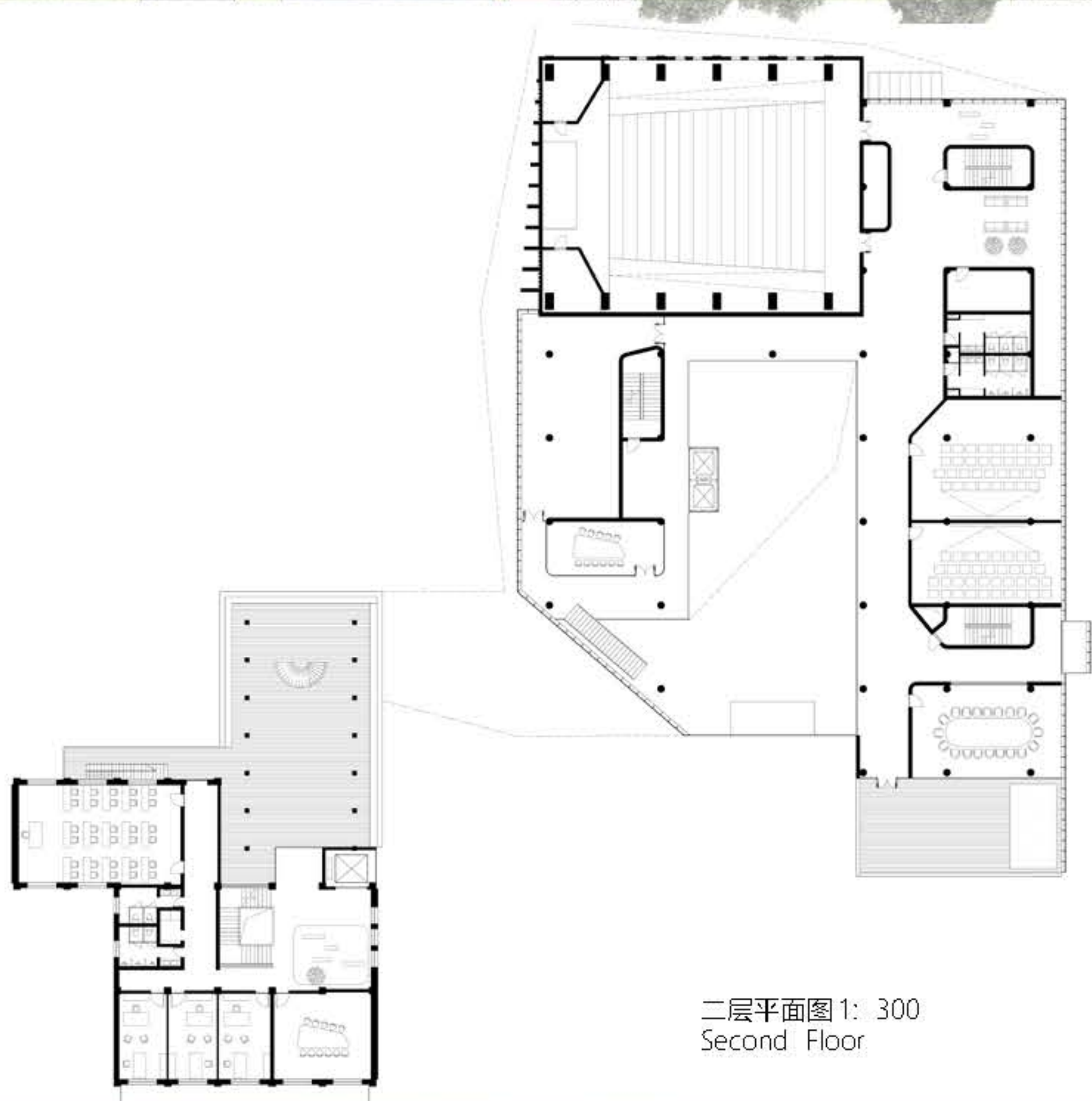
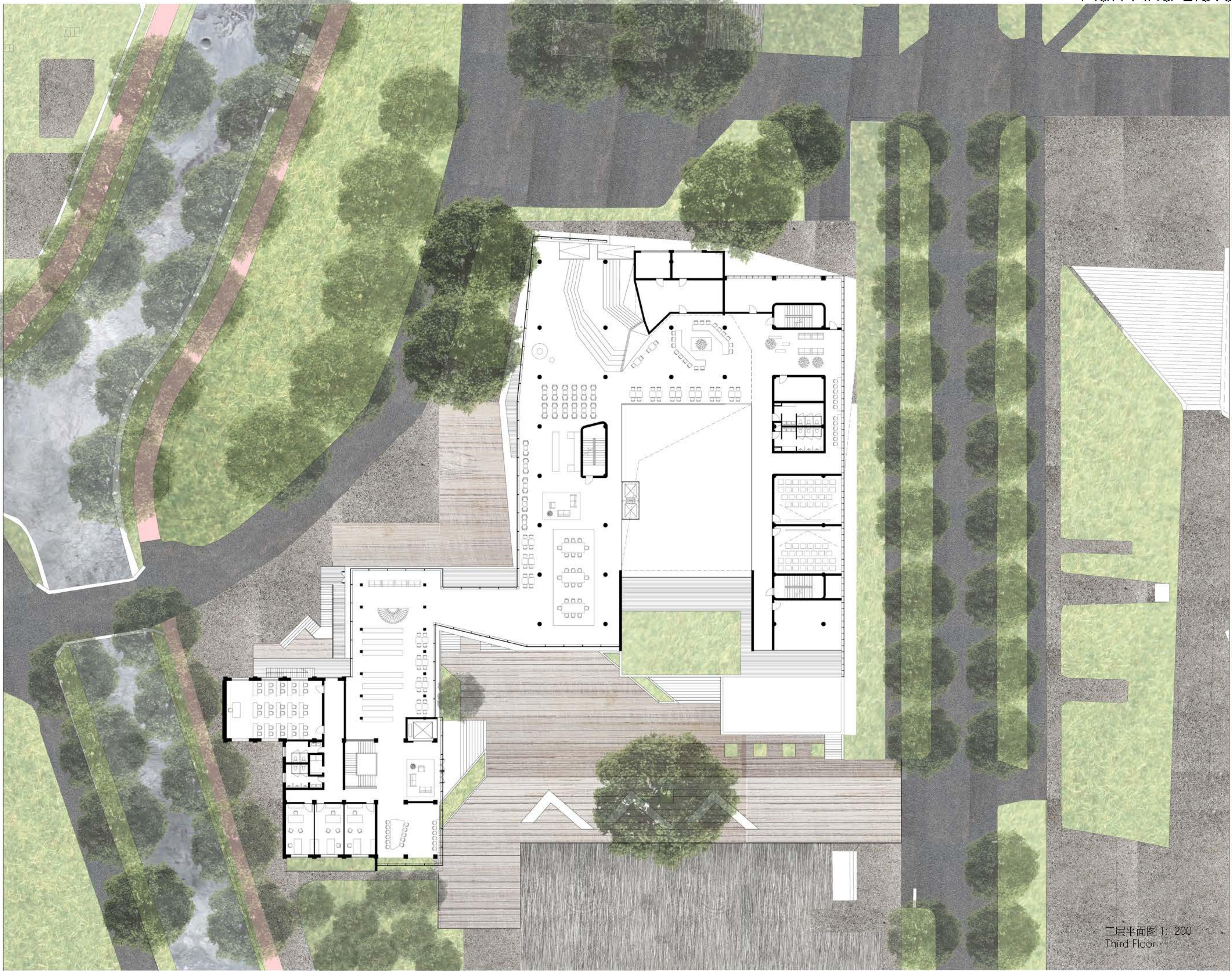
04 连接体量
Connection

05 中庭屋顶
Roof of Atrium



剖面图 1: 150
Section



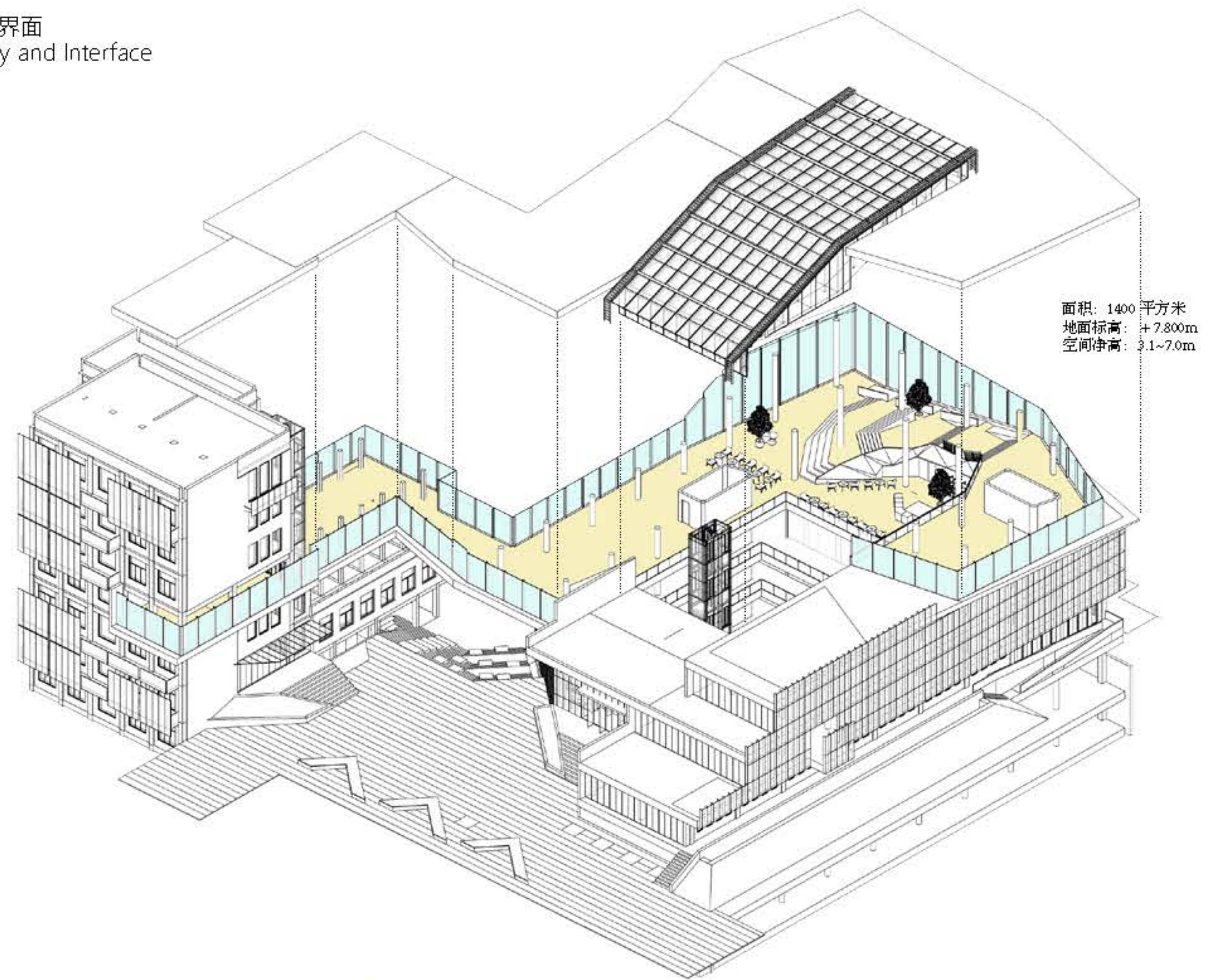




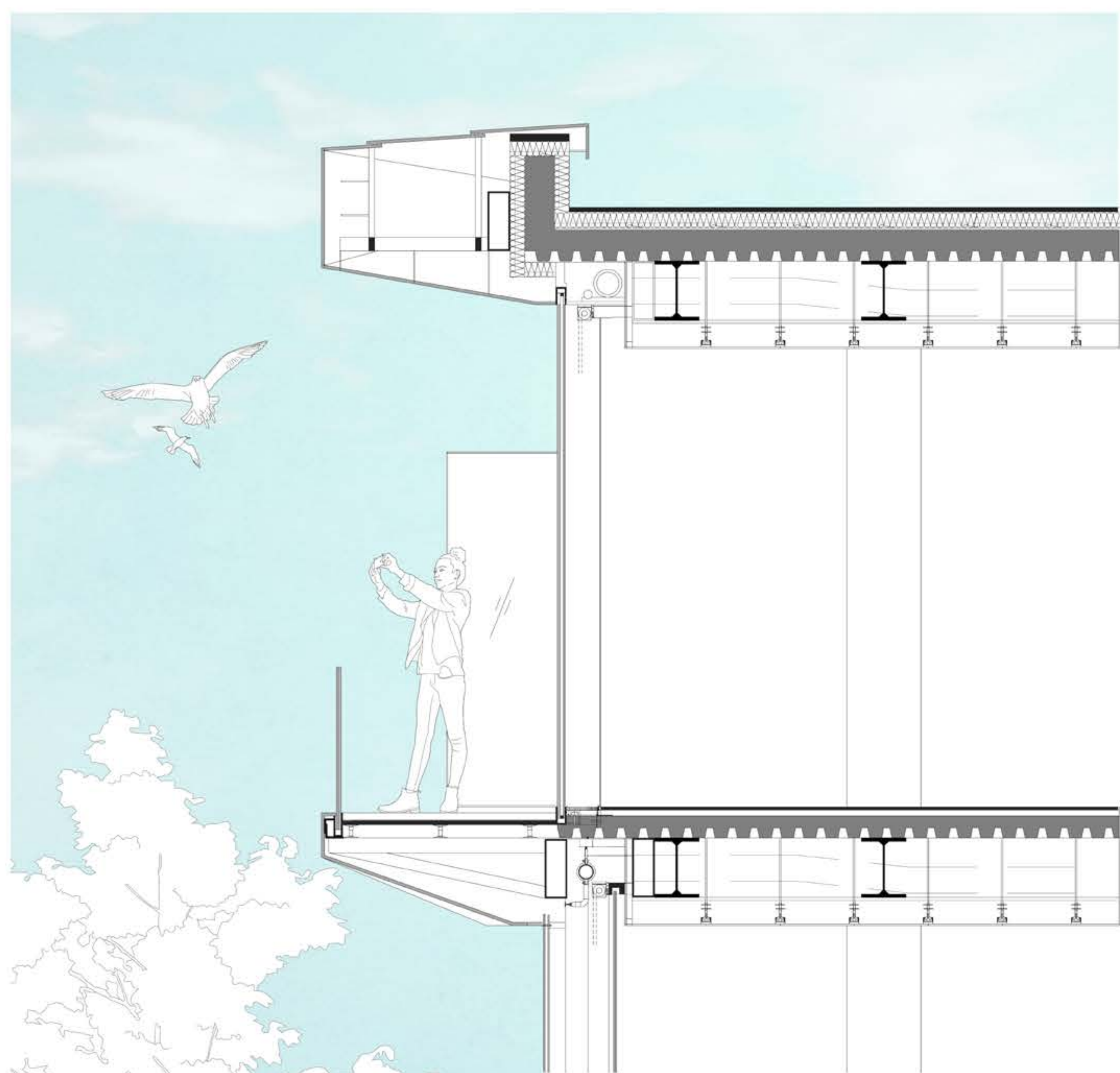
观景大厅——连通 窗口 高度
Public Hall——Connection View Height

空间概念意向
Concept of Space

空间形态与界面
Morphology and Interface



面积：1400 平方米
地面标高：+7.800m
空间净高：3.1~7.0m



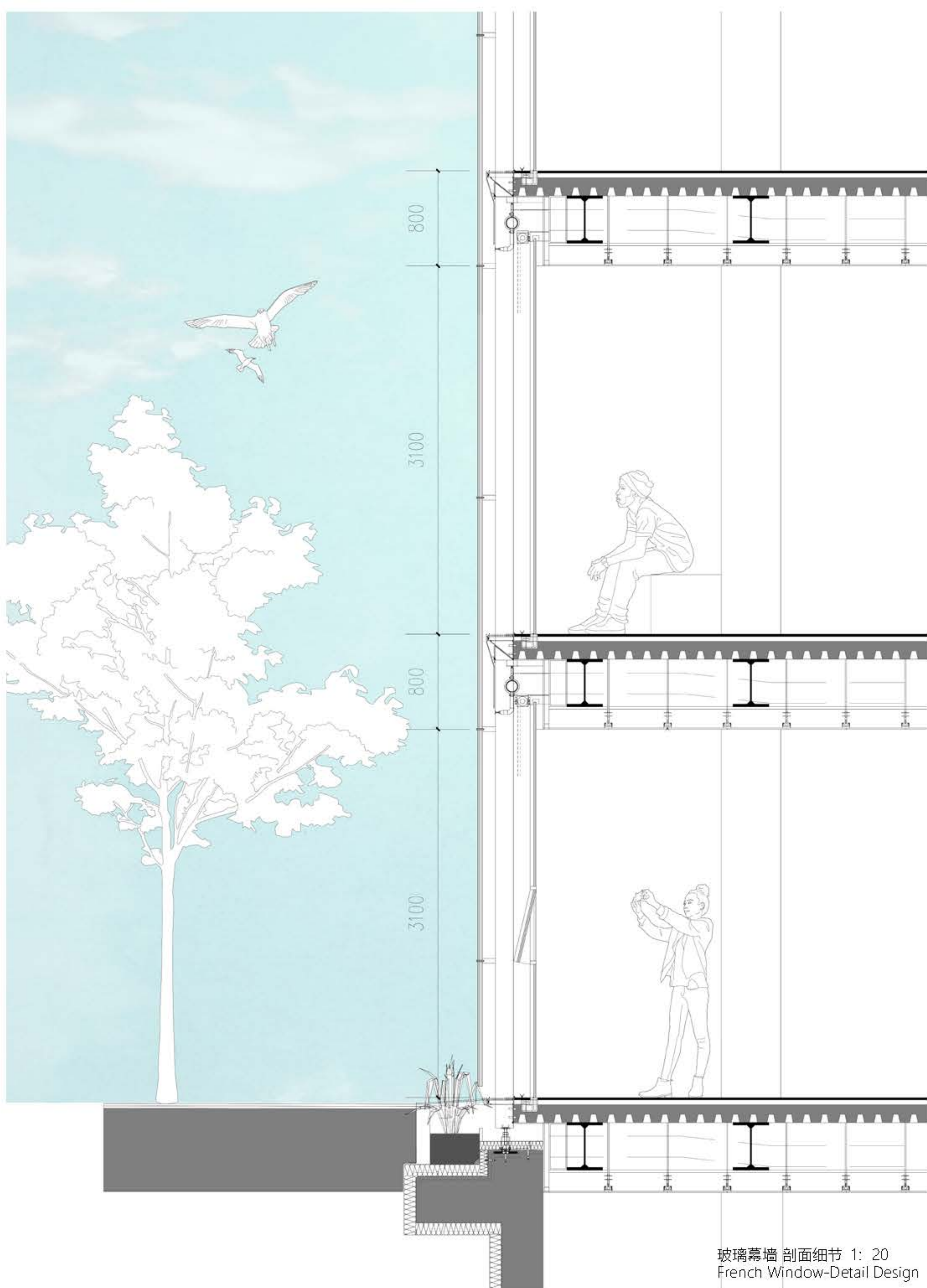
550
950
3100



落地玻璃窗 剖面细节 1: 20
French Window-Detail Design

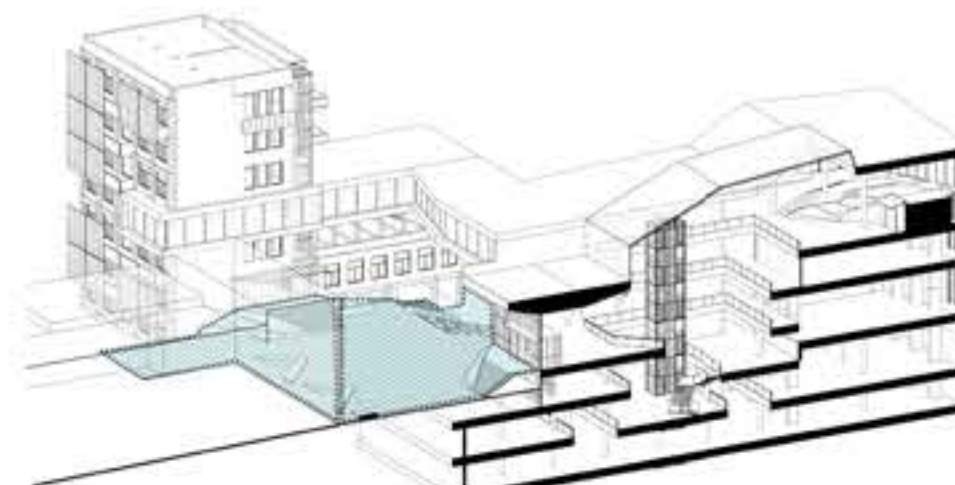
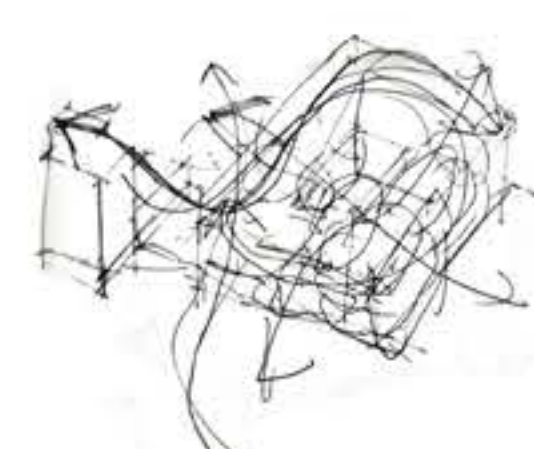


入口广场——城市空间 借景 停留
Entrance Platform——Urban Space, View, Stay



玻璃幕墙 剖面细节 1: 20
French Window-Detail Design

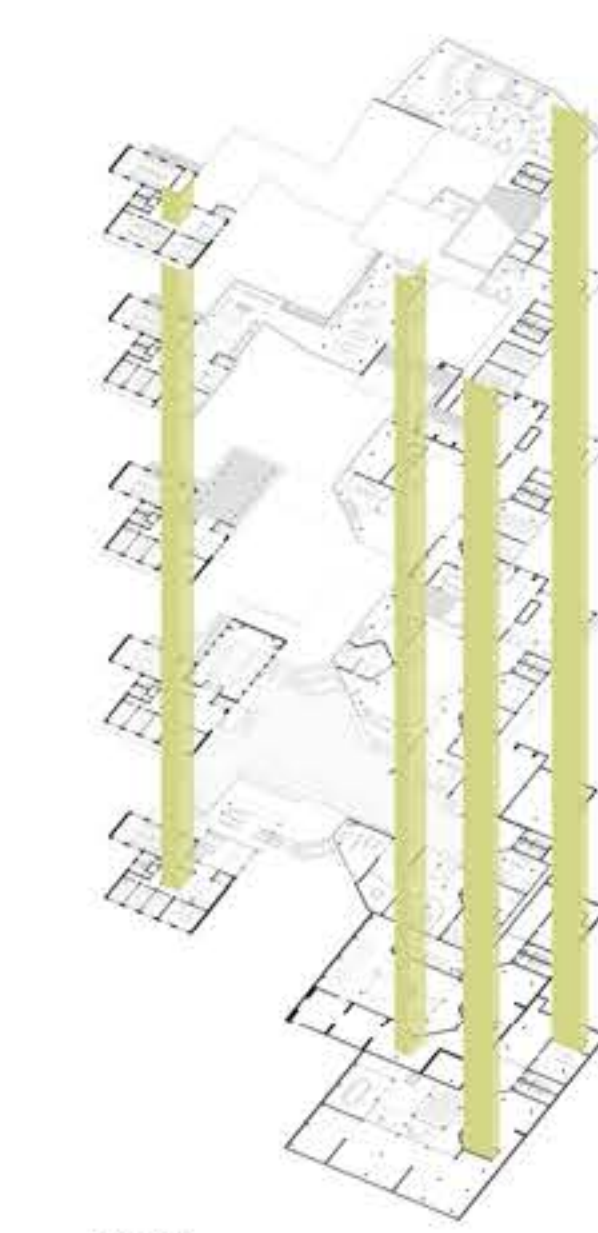
设计草图
Sketches



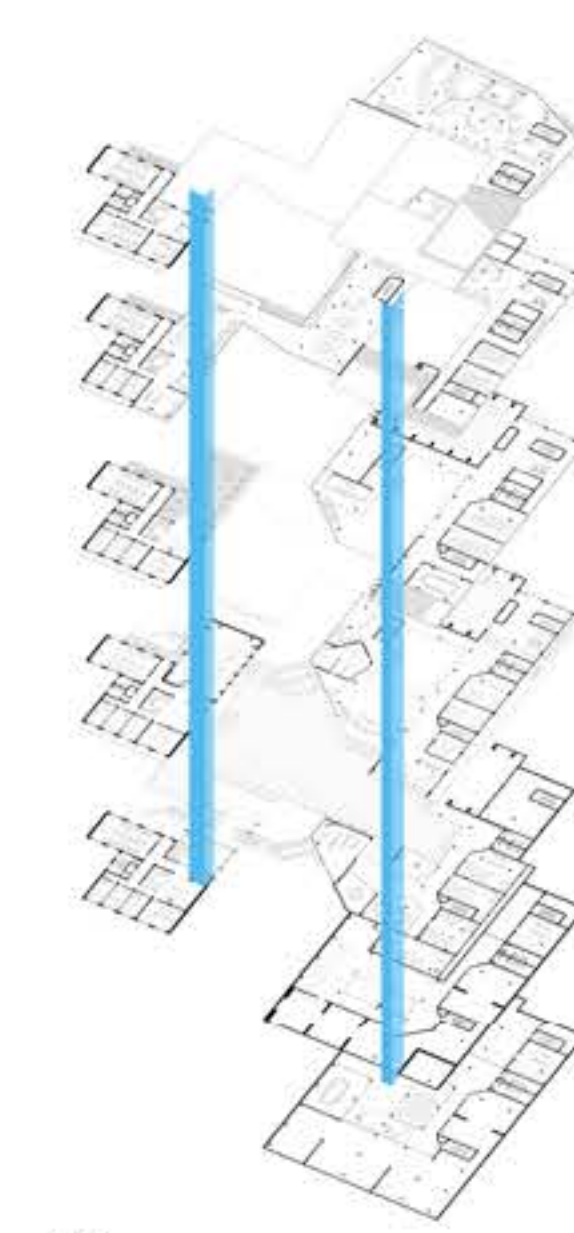
空间形态与界面
Morphology and Interface



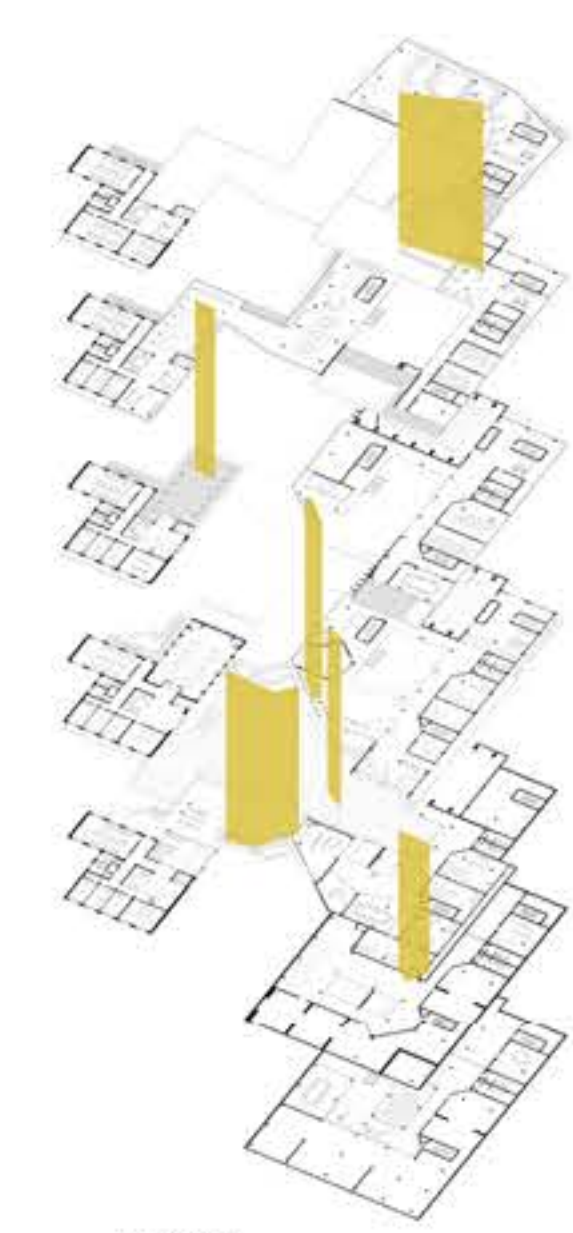
竖向交通
Vertical Connection



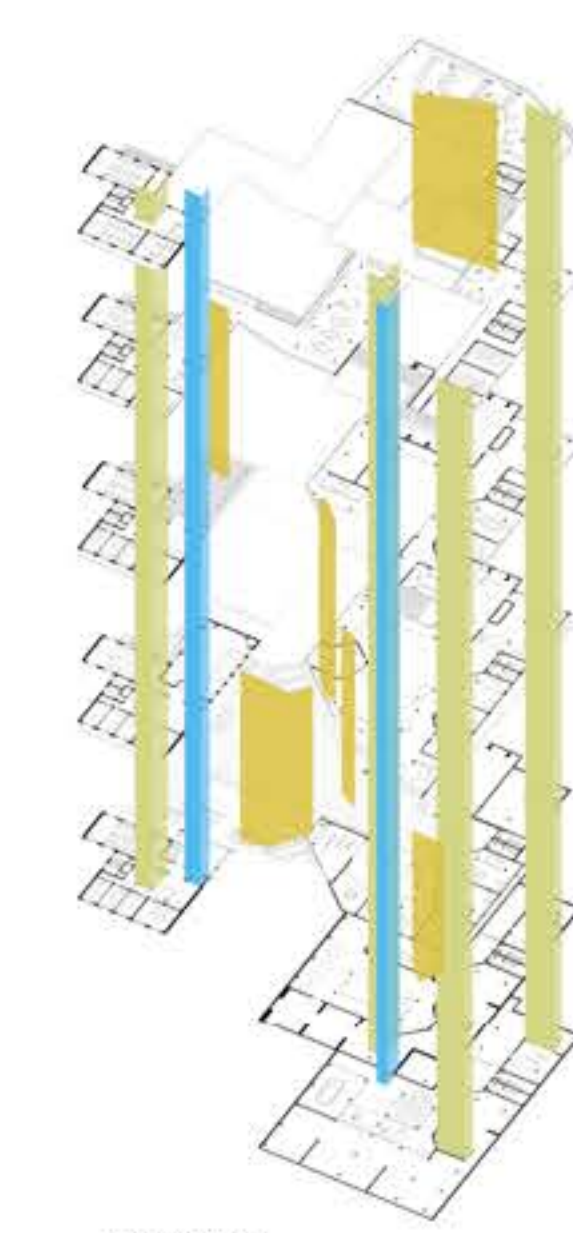
01 楼梯间
Staircase



02 电梯
Lift



03 局部楼梯
Single Storey Staircase



04 竖向交通
Vertical Connection

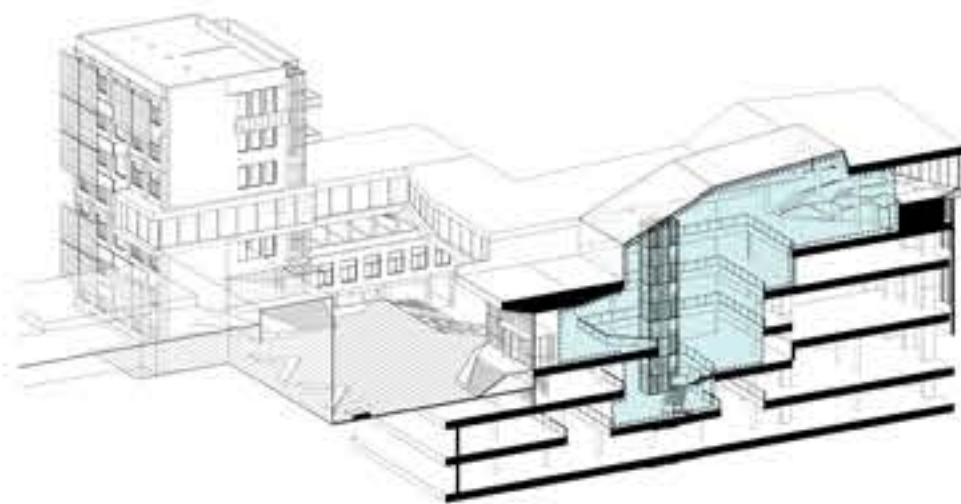
中庭空间 —— 光线 声音 视线
Atrium —— Light, Sound, Sight



设计草图
Sketches



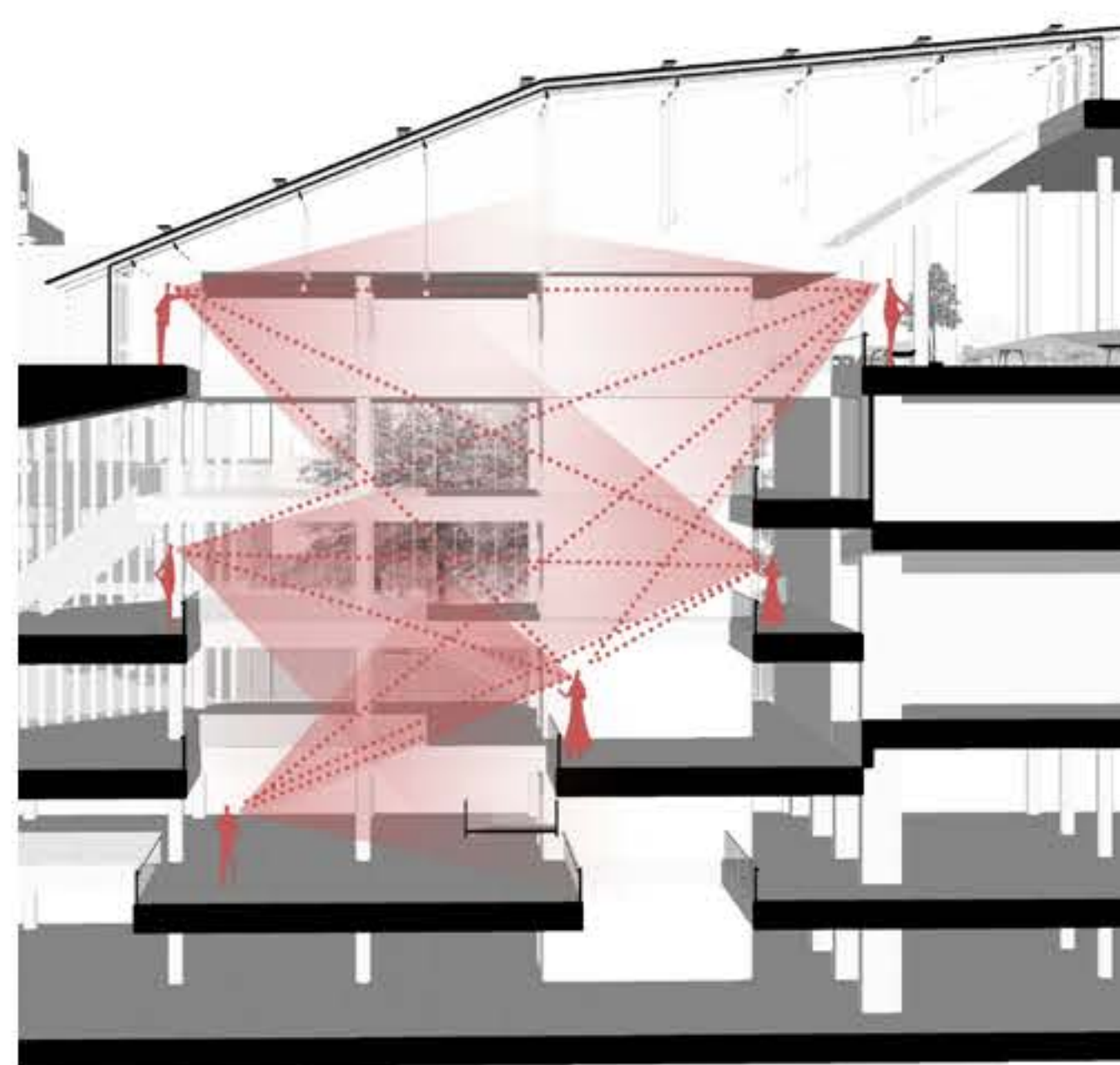
玻璃屋顶结构
Structure of Glass Roof



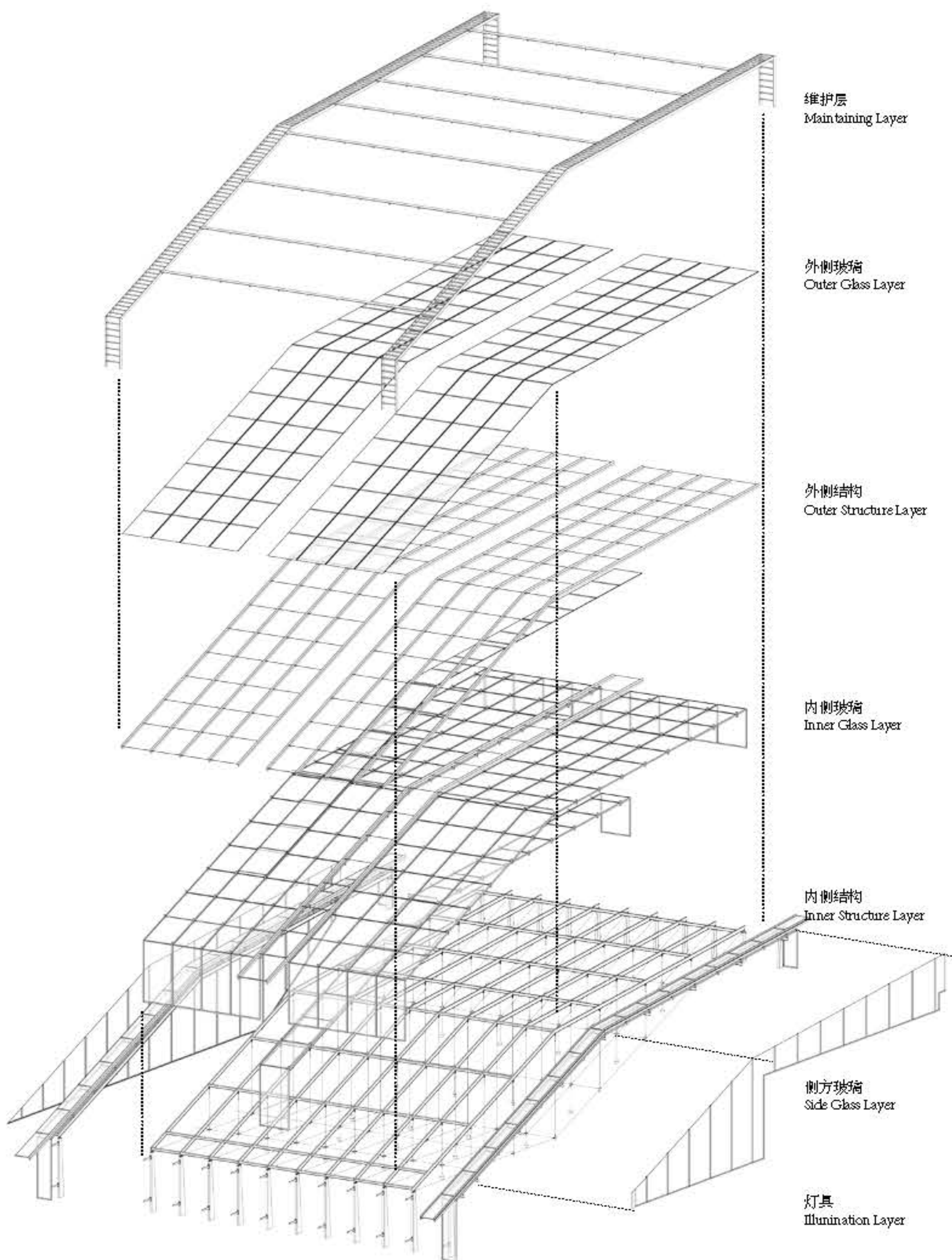
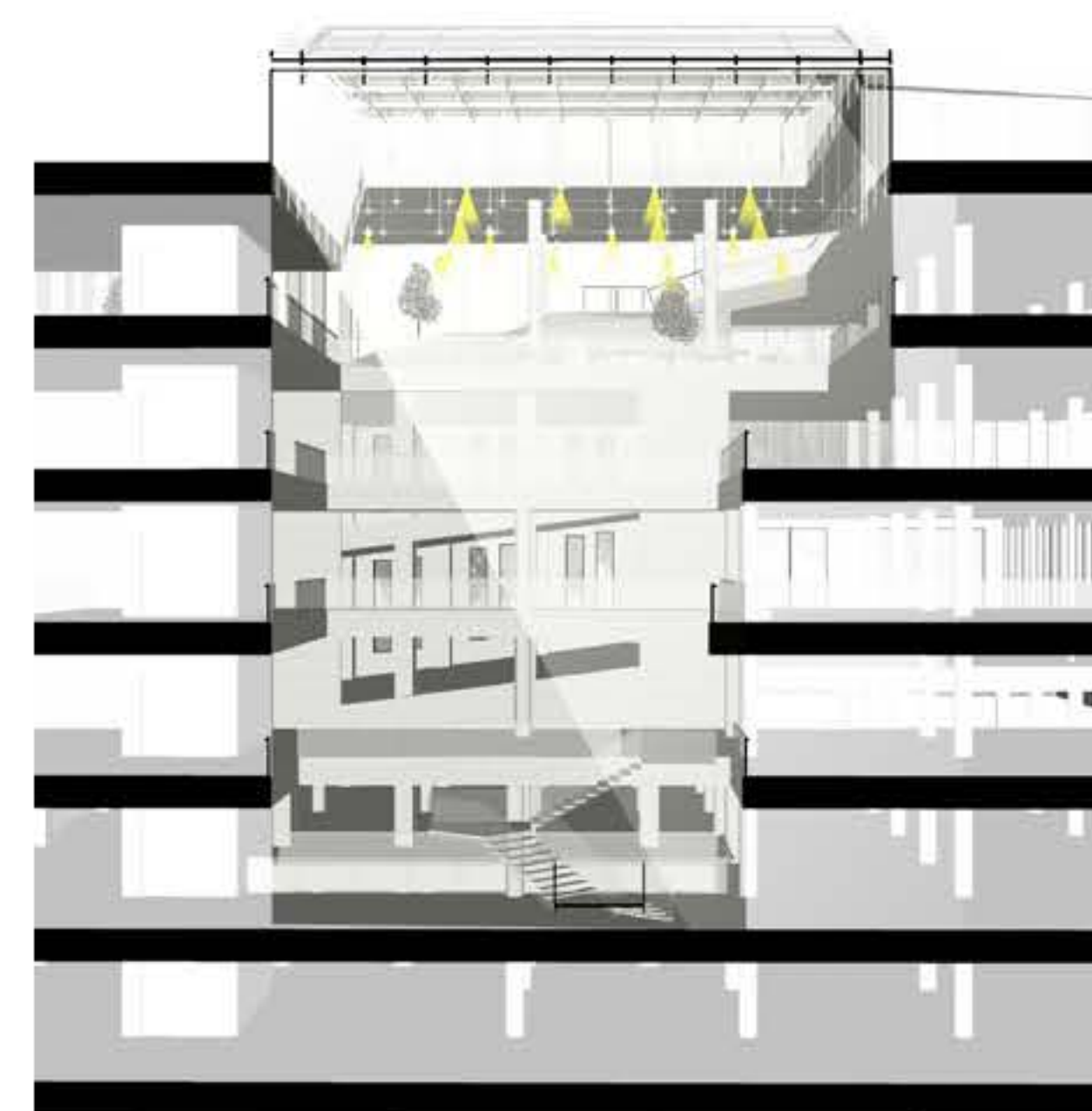
中庭截面变化
Horizontal Section of Atrium



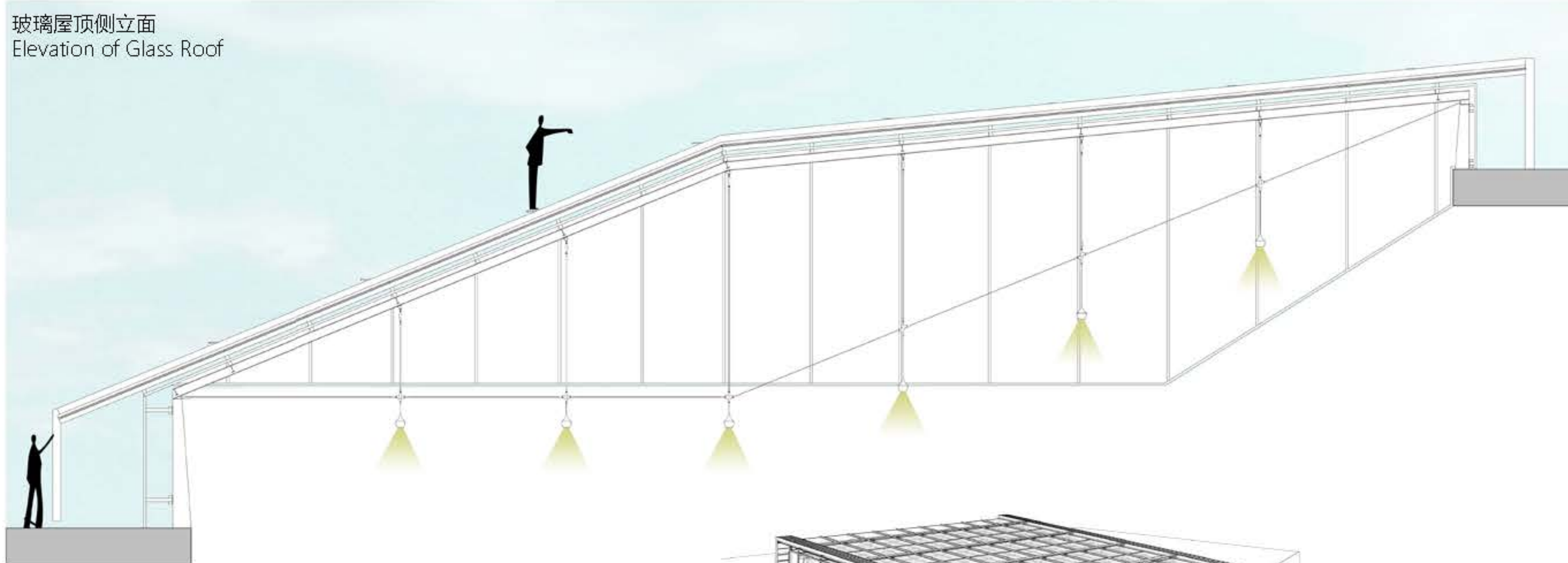
中庭内视线
Sight Exchange in Atrium



中庭 - 采光
Illumination of Atrium



玻璃屋顶侧面
Elevation of Glass Roof



玻璃屋顶节点
Detail of Glass Roof