

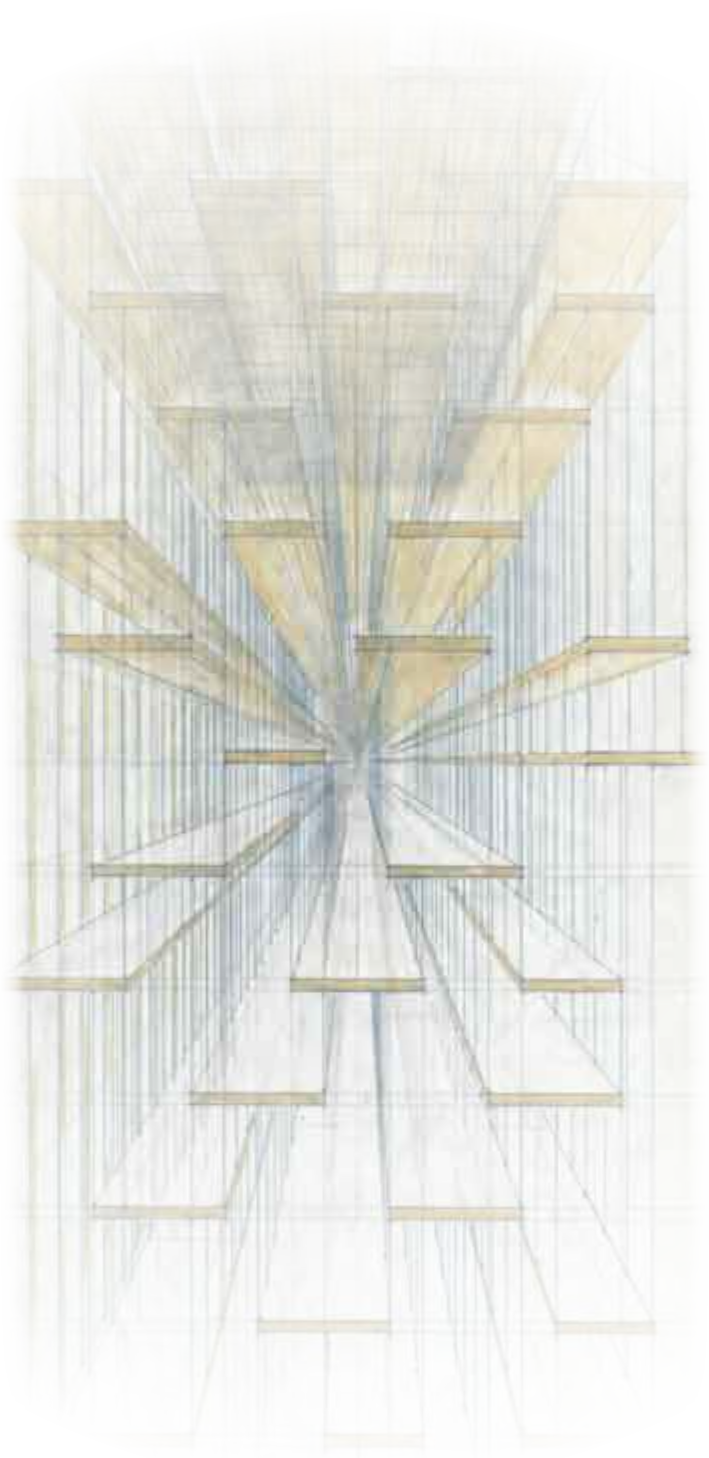
An Urban Model  
LARNEY J. REED JR.

THESIS SUBMITTED TO THE FACULTY OF THE  
VIRGINIA POLYTECHNIC INSTITUTE AND  
STATE UNIVERSITY IN PARTIAL FULFILLMENT  
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BLACKSBURG, VA

KEYWORDS: HABITAT, CITY, URBANIZATION,  
TOWN, VILLAGE, URBAN MODEL

# An Urban Model

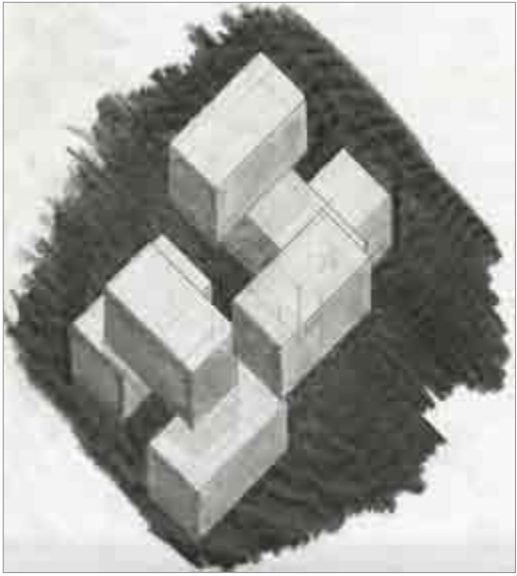
LARNEY J. REED JR.

## ABSTRACT

THE GOAL OF URBANISM AS A MODEL IS NOT TO TEST THE LIMITS OF DENSITY OR PUSH THE BOUNDARIES OF HOW SOCIALLY REMOVED OR ENGAGED AN INDIVIDUAL CAN BE, BUT TO BRING ORDER TO THE GROWING, MALLEABLE, AND COMPLEX INTERACTIONS OF HUMAN LIFE.

THIS MODEL IS A HYPOTHESIS ON DIFFERENT URBAN CONNECTIONS. A REWORKING OF THE FRAMEWORK, WHICH ALLOWS FOR INTERSECTING AND LAYERING ELEMENTS TO BECOME THE BACKDROP TO THE EVERYDAY DRAMA OF LIFE.

AND WHILE MODERN CITIES EPTTOMIZE THE COLLECTION OF AUTONOMOUS STRUCTURES, THIS THESIS SEEKS TO EXPAND ON THAT NOTION THROUGH OVERLAPPING AND FOLDING THAT MODEL BACK ON ITSELF, CREATING A MEANS FOR NEW DYNAMICS AND EXCHANGES.





DEDICATION

TO NAKITA, MY COUNTERPOINT AND  
LIFELINE, YOUR SACRIFICE AND SUPPORT  
MEAN THE WHOLE WORLD TO ME. IBU

SPECIAL THANKS TO

MY MOTHER - MY #1 FAN  
MY FATHER  
AND  
XOE



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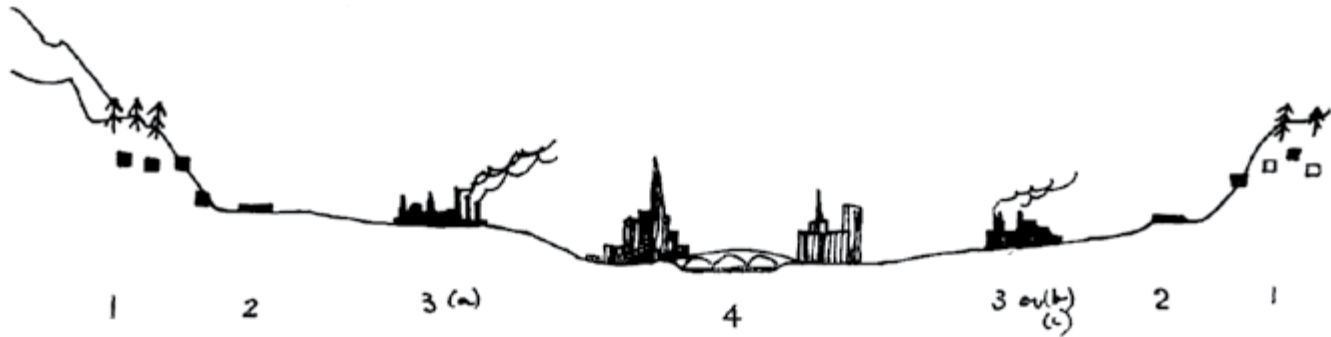


# INTRODUCTION

THE PROGRESSION OF THE THESIS FOLLOWS A SIMILAR PATH POSED BY TEAM X MEMBERS GEORGES CANDILIS, ALEXIS JOSIC, AND SHADRACH WOODS. THE PARTS ARE DIVIDED TO HELP REFLECT THE DIFFERENT SCALES ATTEMPTING TO BE ADDRESSED. THE CONCERN WAS TO UNITE THE BIG AND THE SMALL TO FIND A FORM FOR DIFFERING PROGRAM TYPES TO BLEND. A MEANS OF MOVING FROM THE SMALL TO THE LARGE, THE INTIMATE TO THE DISTANT.

THE ATTEMPTS MADE BY THOSE MEMBERS OF TEAM X POSITED ENGAGING UTOPIAN MODELS. A CRITIQUE OF THEIR IDEAS WORTH NOTING IS THAT THEIR MODELS RELIED TOO HEAVILY ON PEDESTRIAN MOVEMENT; A PARTICULAR SHIFT WHICH SEEMS MORE OF A PRESCRIPTION FOR AN URBAN LIFE RATHER THAN AN ATTEMPT TO COMPLEMENT IT. THESE URBAN MODELS FOCUSED ON A REDUCTION OF ELEMENTS FROM VEHICLES TO NATURE IN A DESIRE TO SHAPE THE IDEAL SOCIETY. THE NEED TO SIMPLIFY IN THIS REGARD APPEARS TO COST MORE THAN IT GAINS BY NOT RECOGNIZING THE BEAUTY OF THE IRRATIONAL. AND IN THE CASE OF THIS THESIS, THE ATTEMPT IS TO TAKE THE CITY ANOTHER STEP, MAY LIKELY SUFFER FROM THE SAME ISSUES IN HINDSIGHT.

GOING THROUGH THE TEAM X TEXTS, THE CONCEPT OF WHAT CONSTITUTES A CITY IS ADDRESSED PRIMARILY THROUGH THE BELOW DIAGRAM. THE CITY EMERGES THROUGH THE ACCUMULATION OF RELATIONSHIPS AND CONNECTIONS BETWEEN INDIVIDUALS. AT THE FIRST STAGE IS THE HOUSE, OR DWELLING, THE SINGULAR ELEMENT OR BUILDING BLOCK. AS A COLLECTION OF DWELLINGS FORM, THE TOWN DEVELOPS. THE TOWN EVOLVES INTO THE VILLAGE. UNLIKE THE TOWN WHICH FUNCTIONS AS ITS OWN MICROCOSM, THE VILLAGE BECOMES SPECIALIZED. THIS SPECIALIZATION INDICATES A ROLE IN A LARGER NETWORK. A NETWORK WHICH MAY TAKE THE FORM OF THE CITY. THE PROBLEM OF MODERN URBAN CENTERS IS THE USE OF ARTIFICIAL AND ARBITRARY ZONING. THIS THESIS MODEL ATTEMPTS TO PROVIDE DIFFERENT LEVELS OF SCALE TO MOVE ACROSS AND OPERATE. AND IN DOING SO, ACHIEVES ANOTHER LAYER OF EXPLORATION, REIFYING AND BRINGING FORTH PROGRAMS THAT BREATHE NEW PERSPECTIVE AND LIFE INTO THESE SPACES.



A

- 1. HOUSE DETACHED HOUSE FARM
- 2. GROUP VILLAGE
- 3. COMMUNITY TOWN OF VARIOUS SORTS (INDUSTRIAL/ADMIN/SPECIAL)
- 4. CORE CITIES (MULTI-FUNCTIONAL)

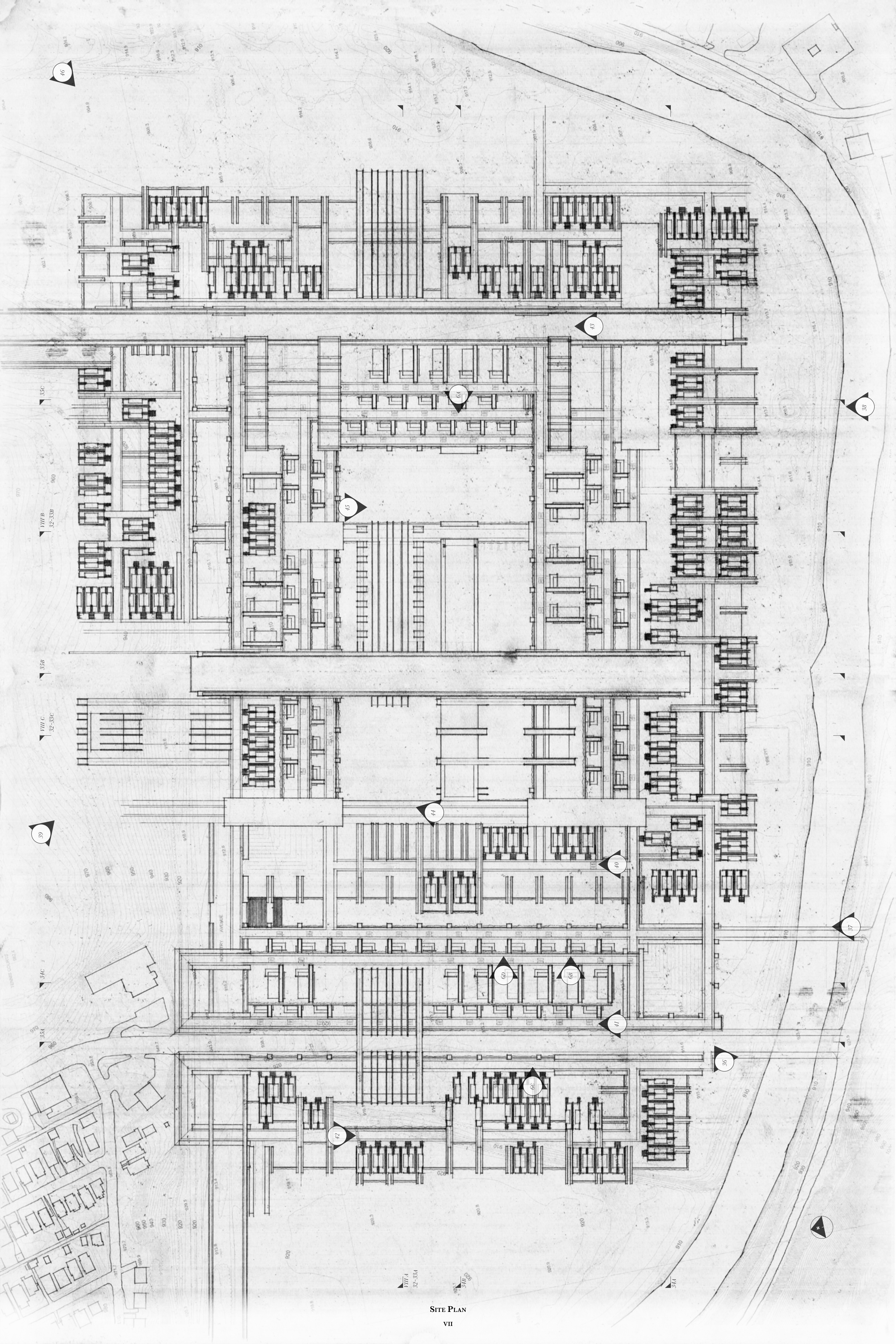




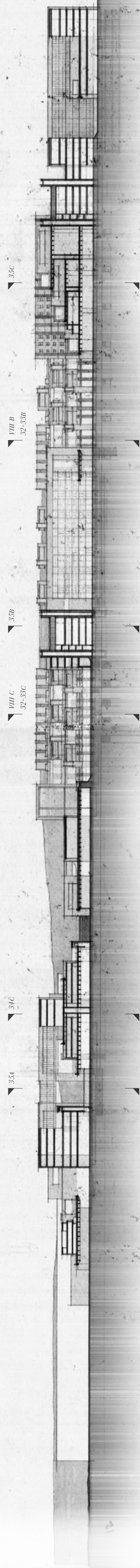
LOCATED IN ROANOKE, VA AND SANDWICHED BETWEEN A RAILWAY AND THE ROANOKE RIVER JUST BELOW MORNINGSIDE PARK, A PIECE OF LAND CONTAINING AN EXISTING INDUSTRIAL PARK SERVES AS THE SITE. THE EXISTING STRUCTURES, DENOTED BY THE SHADED REGIONS, ARE 'REMOVED' FOR THE PURPOSES OF INTRODUCING THE PROPOSED ALTERNATIVE URBAN PLAN.



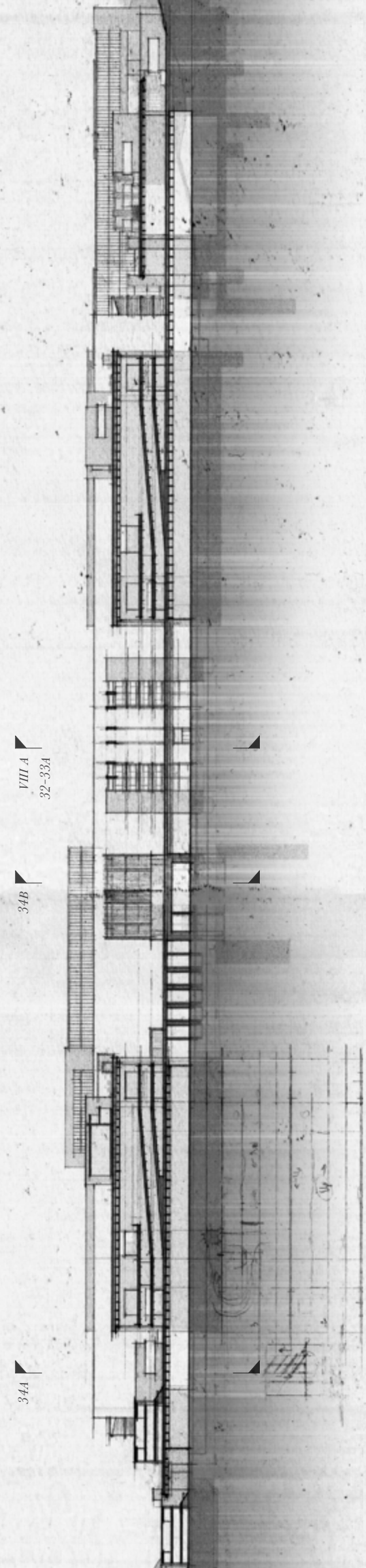




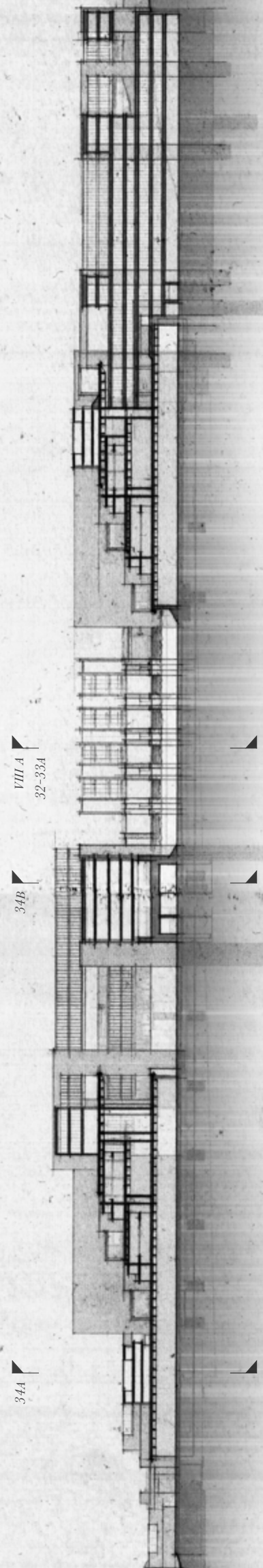




A



B



C

VIII A | SITE SECTION  
VIII B | SITE SECTION  
VIII C | SITE SECTION



# ‘Dwelling’

2

## INTRODUCTION

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2B | VILLAGIO MATTEOTTI PLANS AND SECTIONS, DE CARLO, RISSELADA AND VAN DEN HEUVEL, P. 222

2C | VILLAGIO MATTEOTTI PHOTOGRAPHS, DE CARLO, RISSELADA AND VAN DEN HEUVEL, P. 223

2D | SITE PLAN DENOTING DWELLING UNITS

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## INITIAL DIAGRAMS OF A ROOM WITHIN A ROOM

3A | SITE PLAN REFLECTING CLEARED AREA

3B | SITE PLAN REFLECTING CLEARED AREA

3C | SITE PLAN REFLECTING CLEARED AREA

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## DWELLING TYPE ‘A’ DIAGRAMS

4A | UPPER LEVEL PLAN

4B | MIDDLE LEVEL PLAN

4C | LOWER LEVEL PLAN

4D | SECTION

4E | ELEVATION

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## DWELLING TYPE ‘B’ DIAGRAMS

5A | COMPOSITE PLAN OF UPPER AND LOWER LEVELS

5B | DWELLING UNIT STUDY

5C | DWELLING UNIT STUDY

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## UNIT INTERIOR PERSPECTIVES

6A | INTERIOR PERSPECTIVE - UNIT ‘B’

6B | INTERIOR PERSPECTIVE - UNIT ‘B’

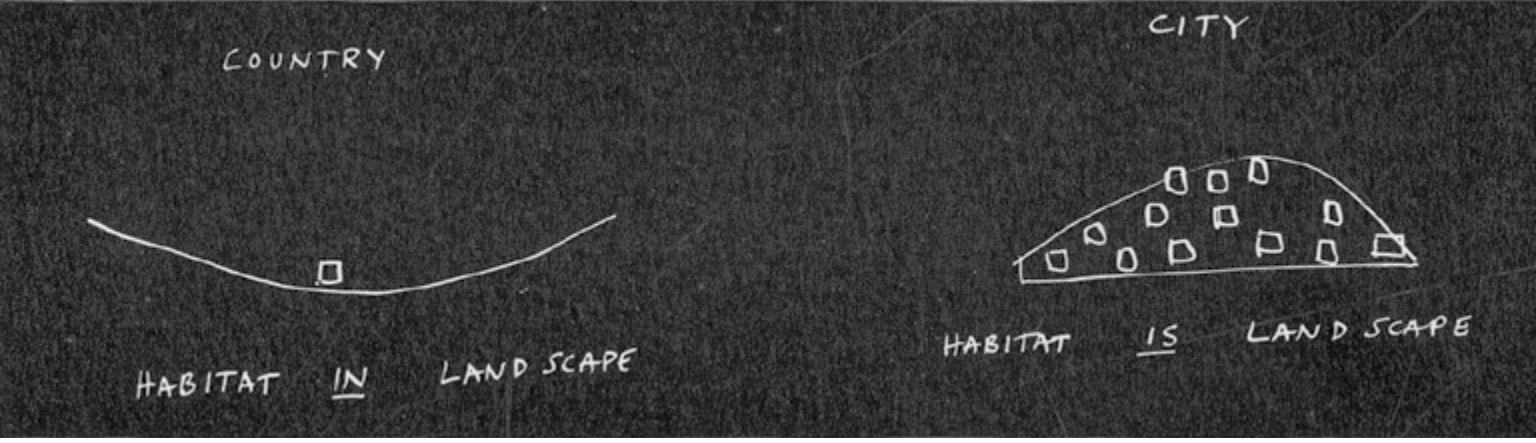
6C | INTERIOR PERSPECTIVE - UNIT ‘A’

6D | INTERIOR PERSPECTIVE - UNIT ‘A’

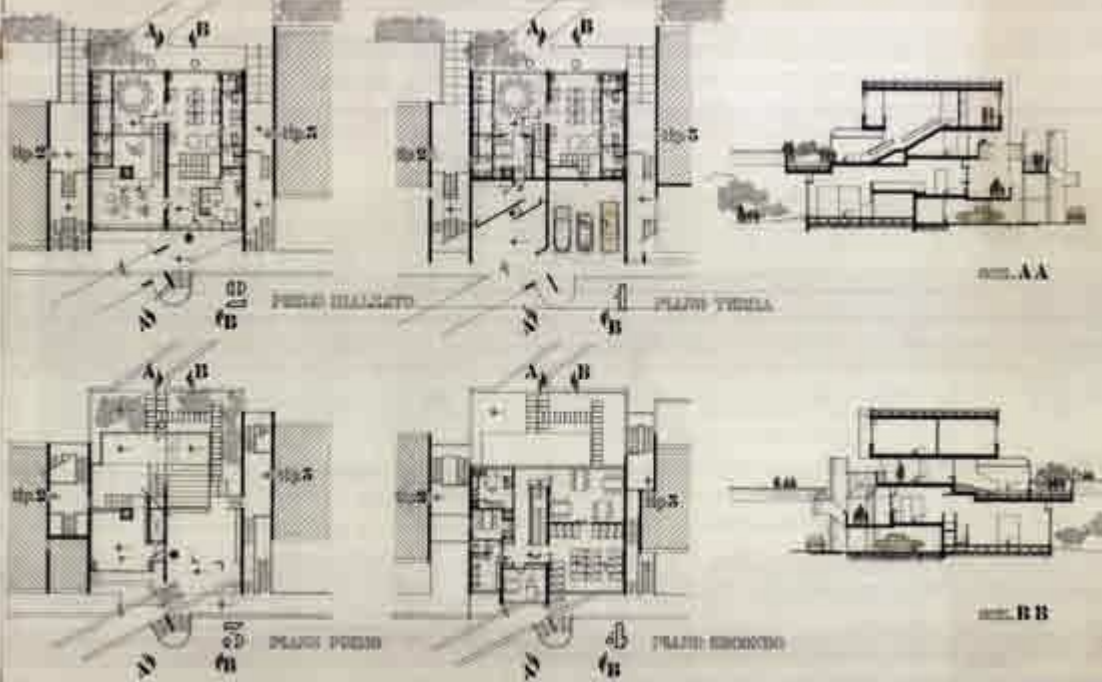


THE DWELLING IS THE PRIMARY UNIT OF LIVING. SIMULTANEOUSLY THE EMBODIMENT OF THE WORLD AND THE INDIVIDUAL, THE HOUSE IS ITS OWN BEGINNING AND ENDING. THE WORLD THAT EMANATES FROM ITS CORE WILL RESONATE THROUGHOUT THE WHOLE.





A



B



C

THE DWELLING, AS ILLUSTRATED IN THE ABOVE DIAGRAM (FIG. A) AND MOSHE SAFDIE'S HABITAT '67 (FIG. 2.2.A), FLUCTUATES FROM BEING ITS OWN AUTONOMOUS ELEMENT TO BEING A PIECE OF A LARGER ENTITY.

THE HOUSING UNIT TAKES ON THE ROLE OF FORMING URBAN FABRIC BY ALLOWING ITS ARCHITECTURE TO INFORM THE SITE. GIANCARLO'S DE CARLO'S VILLAGIO MATTEOTTI (FIG. B & C ) HOUSING ESTATE HELPS ILLUSTRATE THIS PRINCIPLE. THROUGH THE FORMATION OF THESE SIMPLE DWELLINGS, WONDERFUL SPACES EMERGE.



D

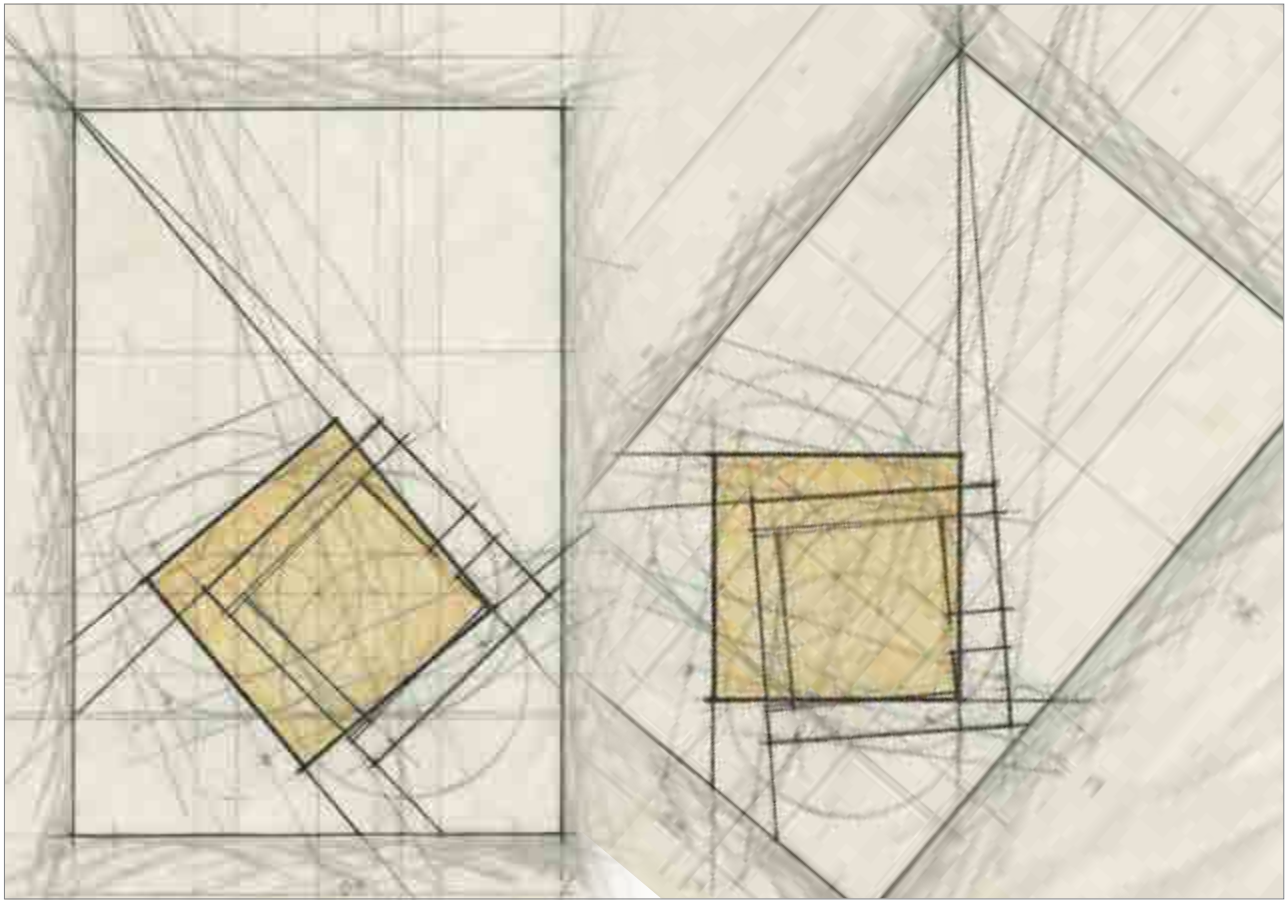
2A | IDEOGRAM, SMITHSON A., TEAM X, P. 80 | USED UNDER FAIR USE, 2013

2B | VILLAGIO MATTEOTTI PLANS AND SECTIONS, DE CARLO, RISSELADA AND VAN DEN HEUVEL, P. 222 | USED UNDER FAIR USE, 2013

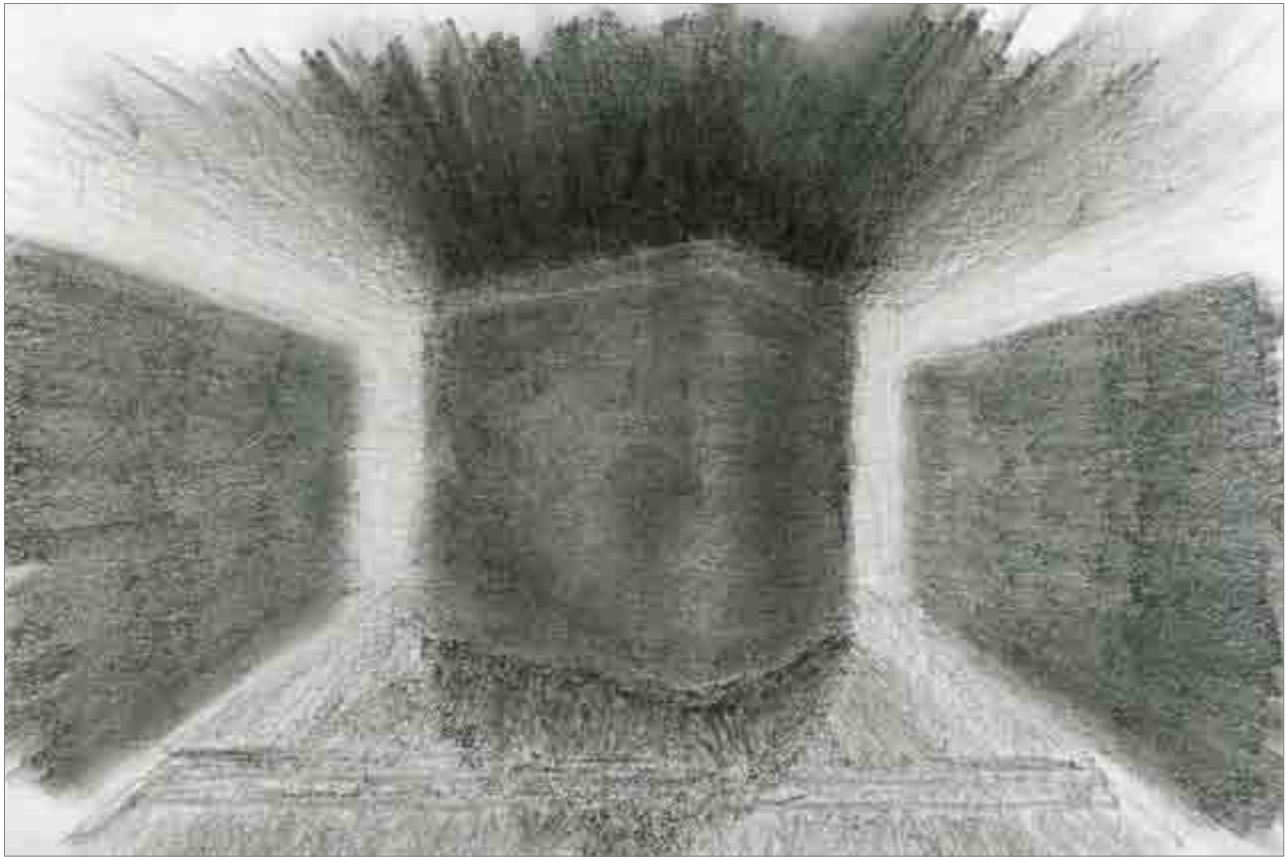
2C | VILLAGIO MATTEOTTI PHOTOGRAPHS, DE CARLO, RISSELADA AND VAN DEN HEUVEL, P. 223 | USED UNDER FAIR USE, 2013

2D | SITE PLAN DENOTING DWELLING UNITS

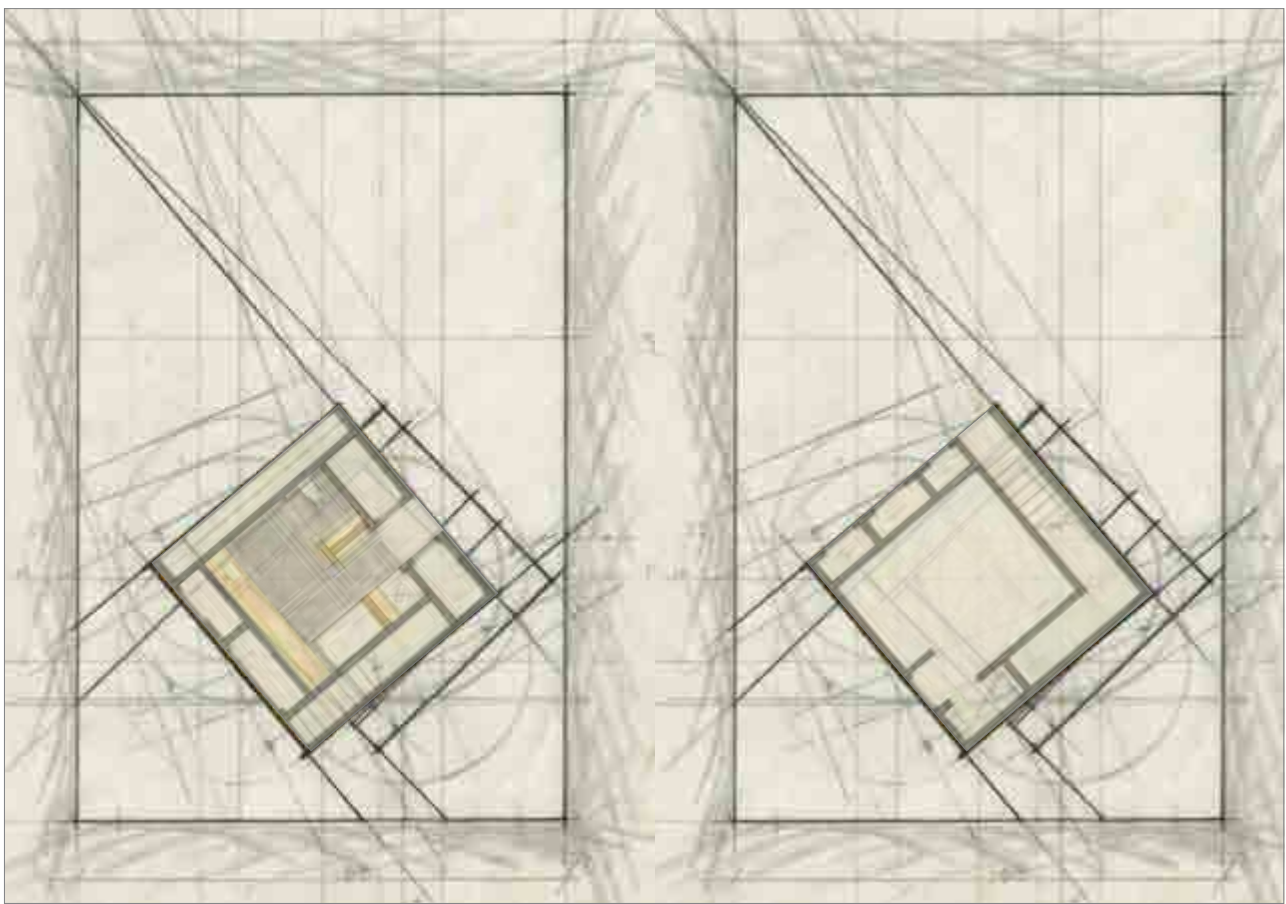




A



B



C

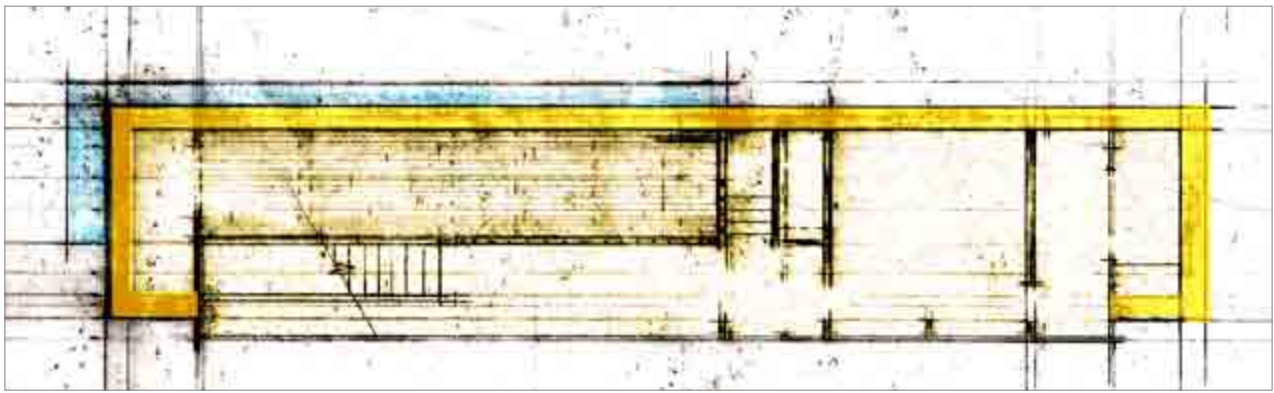
3A | SITE PLAN REFLECTING CLEARED AREA

3B | SITE PLAN REFLECTING CLEARED AREA

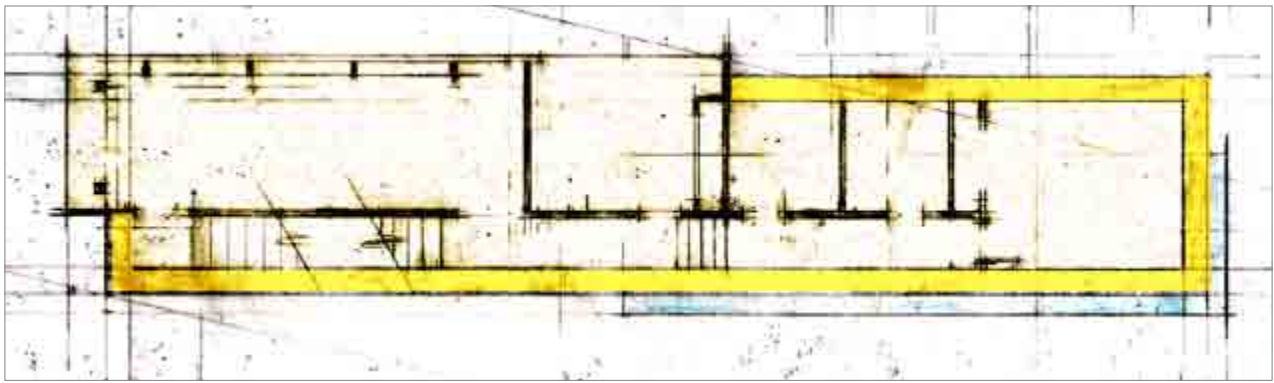
3C | SITE PLAN REFLECTING CLEARED AREA

INITIAL DIAGRAMS OF A ROOM WITHIN A ROOM

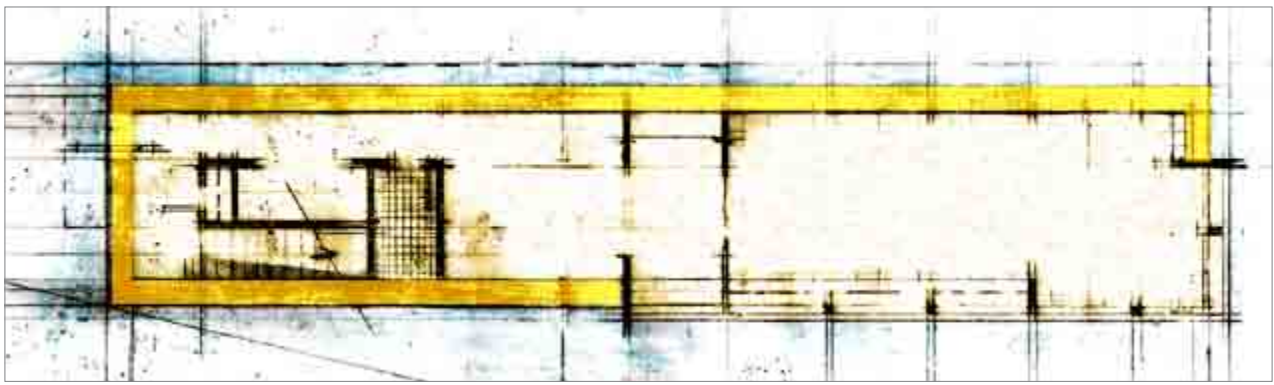




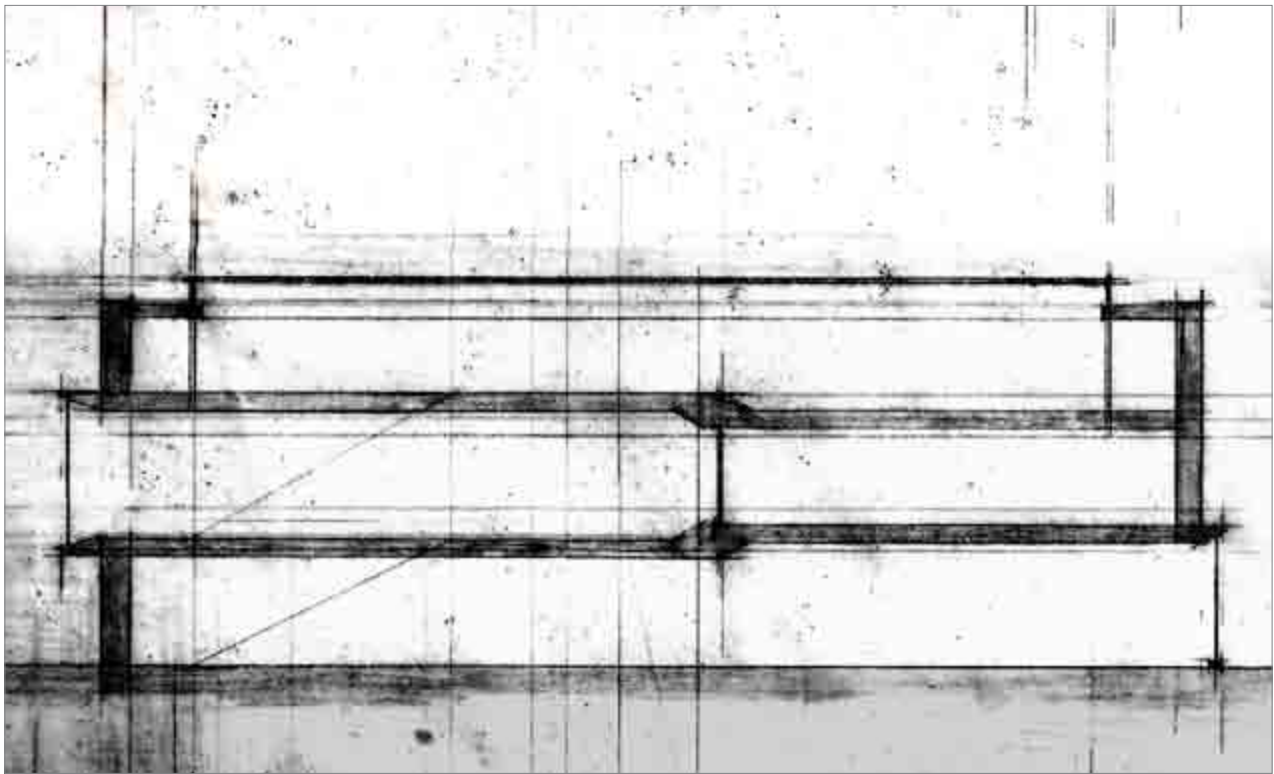
A



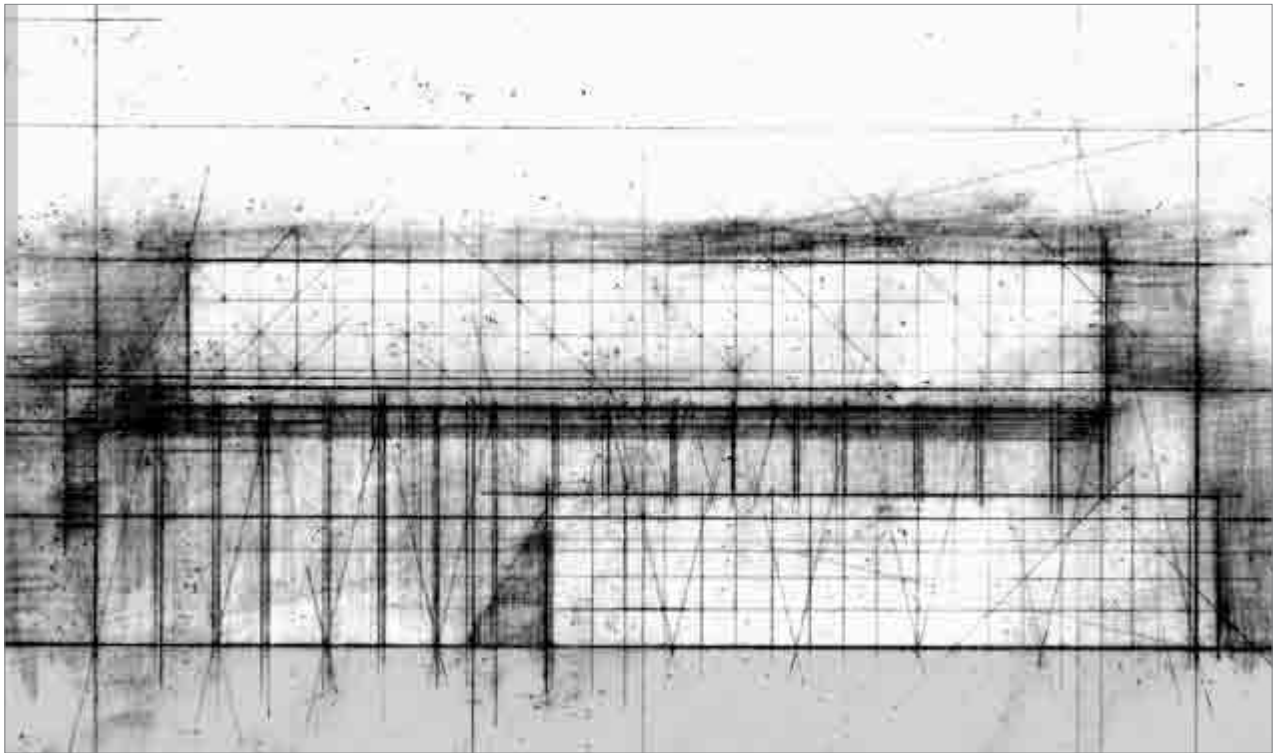
B



C



D



E

4A | UPPER LEVEL PLAN

4B | MIDDLE LEVEL PLAN

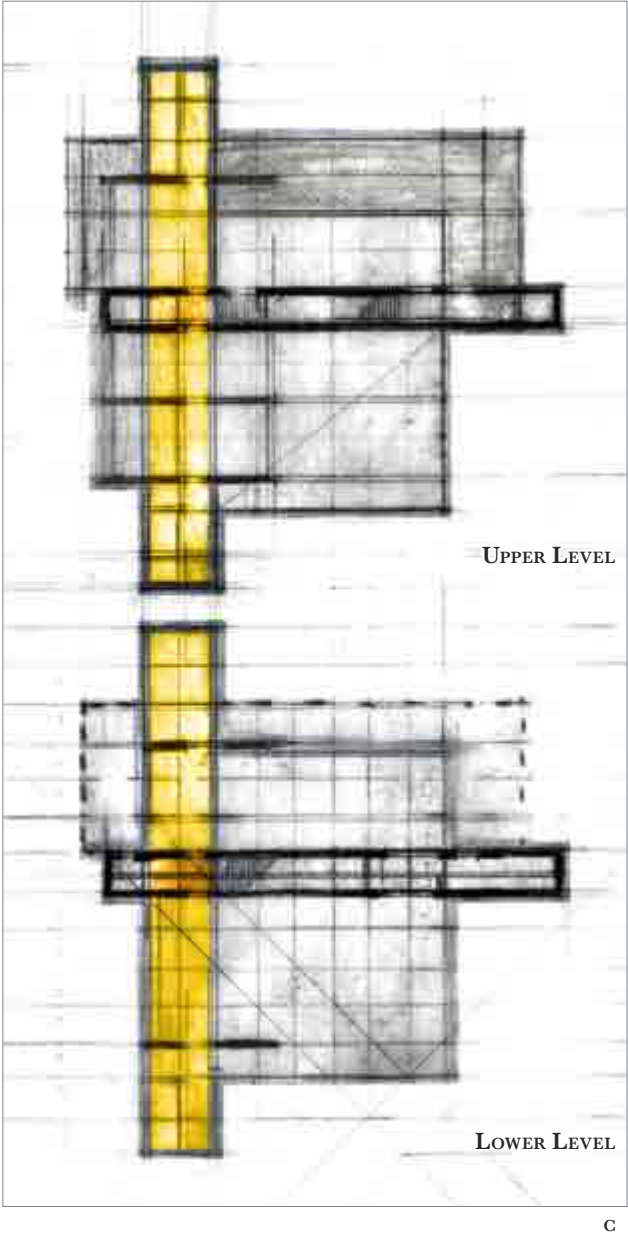
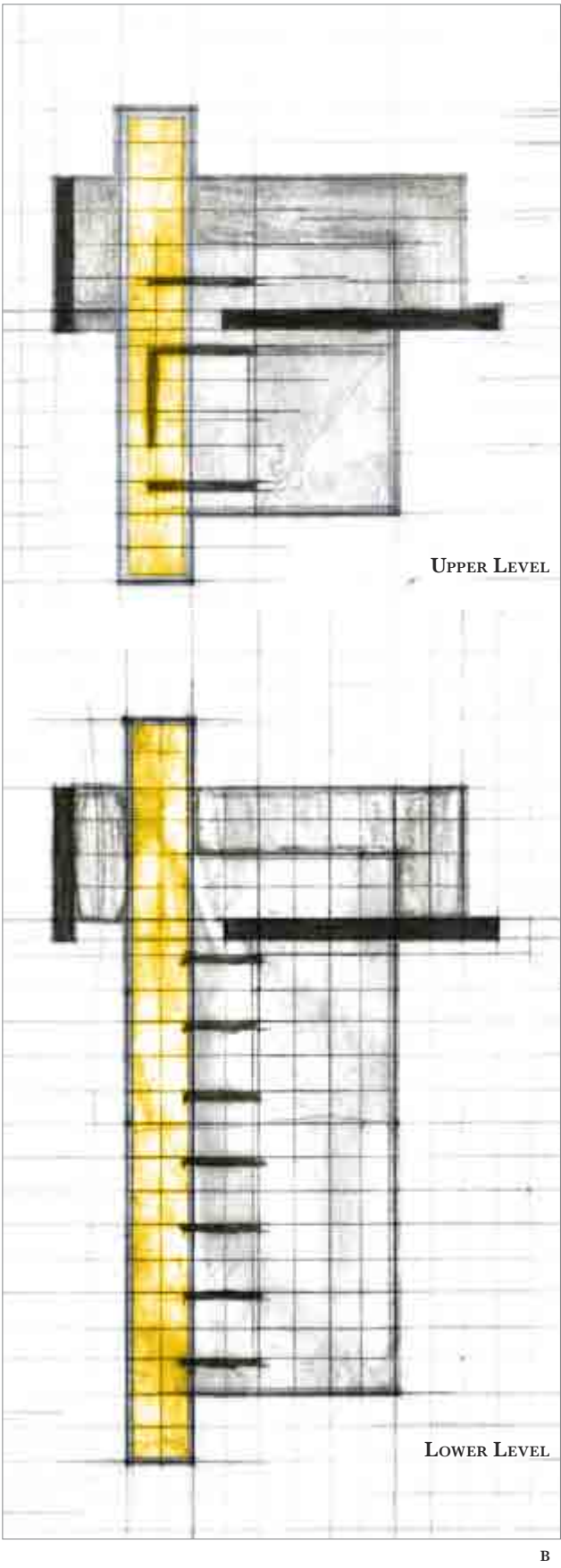
4C | LOWER LEVEL PLAN

4D | SECTION

4E | ELEVATION

DWELLING TYPE 'A' DIAGRAMS





5A | COMPOSITE PLAN OF UPPER AND LOWER LEVELS

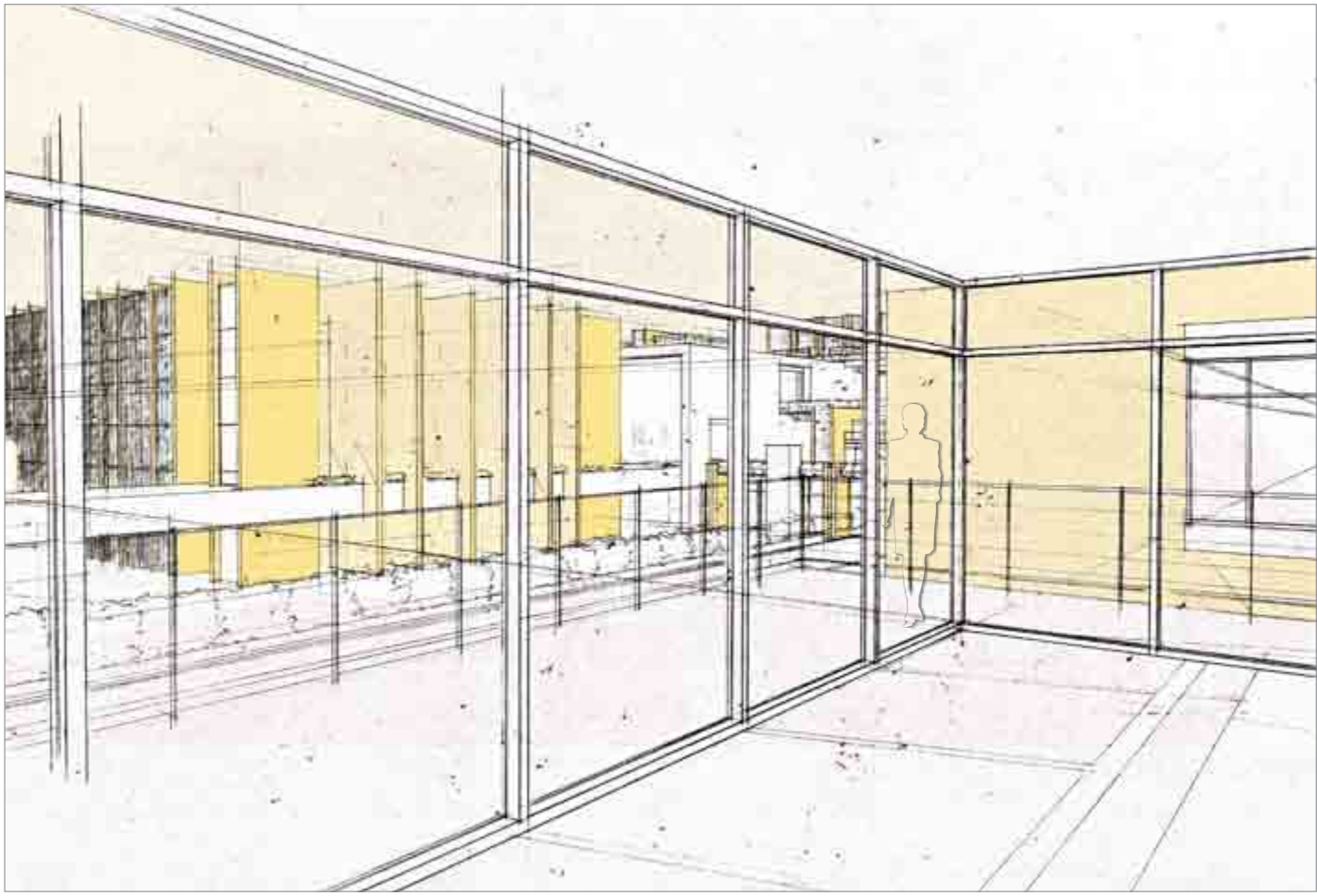
5B | DWELLING UNIT STUDY

5C | DWELLING UNIT STUDY

DWELLING TYPE 'B' DIAGRAMS



6A | INTERIOR PERSPECTIVE - UNIT 'B'  
6B | INTERIOR PERSPECTIVE - UNIT 'B'  
6C | INTERIOR PERSPECTIVE - UNIT 'A'  
6D | INTERIOR PERSPECTIVE - UNIT 'A'



A



B



C



D



‘Block’

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8B | ROUTE BUILDING SERVING  
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STUDIES OF UNIT FORMED  
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10A, B, & C | SECTION STUDIES

10D | PLAN + SECTION STUDIES

10E | PLAN + SECTION STUDIES

10F | PLAN + SECTION STUDIES

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STUDIES OF UNIT FORMED  
BLOCKS

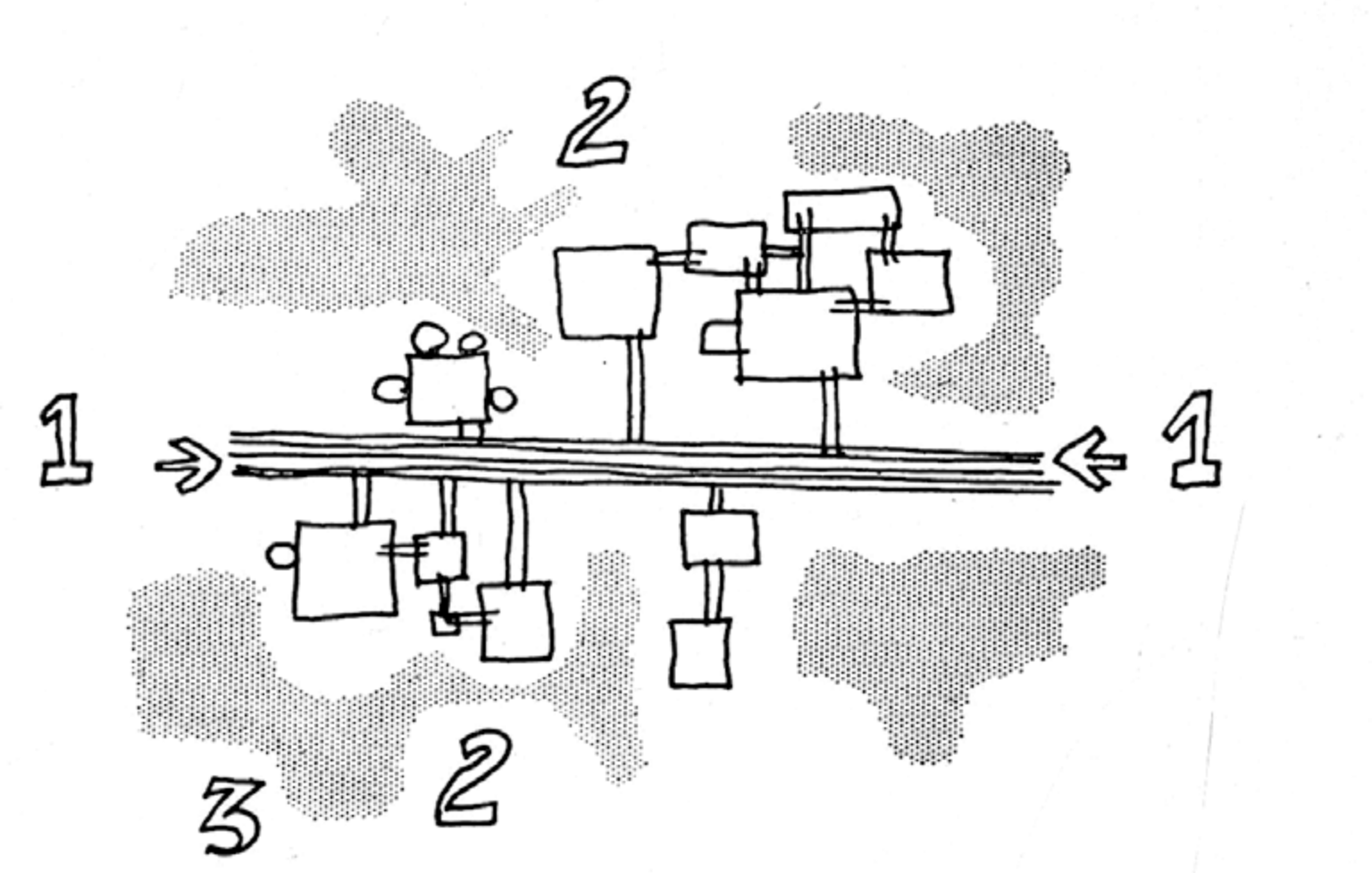


FROM ONE ROOM A COLLECTION  
EMERGES TO FORM A VILLAGE. A  
SERIES OF STREETS CONNECTING THE  
ROOMS TO THE WORLD BEYOND.



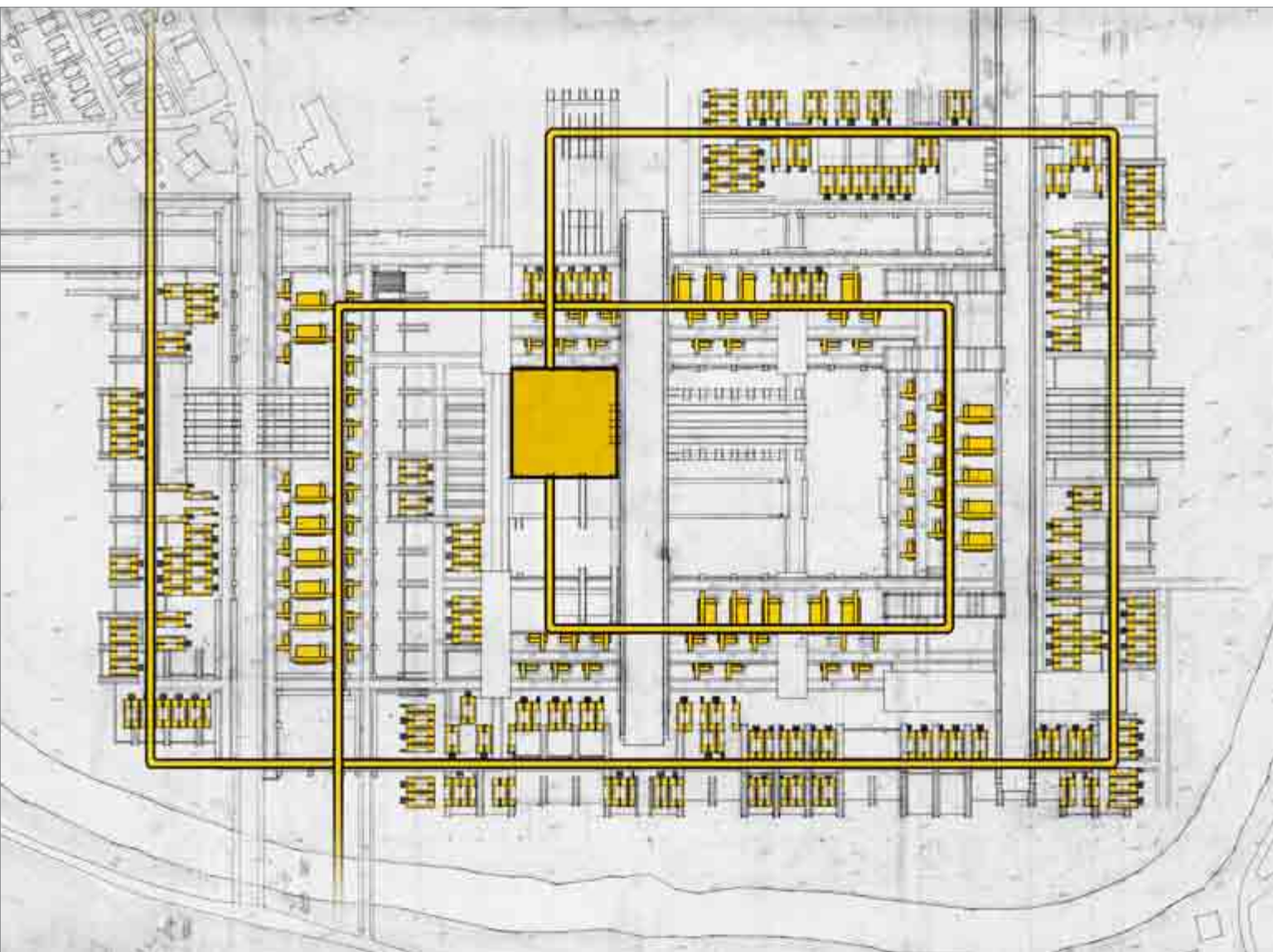


A



B

THE GROWTH OF THE BLOCK, AS MENTIONED PREVIOUSLY, IS A SIMPLE AGGREGATION OF MULTIPLE DWELLINGS. IT FACILITATES THE EMERGENCE OF GATHERING LOCATIONS FOR PUBLIC AND SOCIAL DEALINGS. THE COMMUNITY FUNCTIONS IN ITS OWN CLUSTER AND STARTS TO DEVELOP CONNECTIONS WITH ADDITIONAL CLUSTERS.



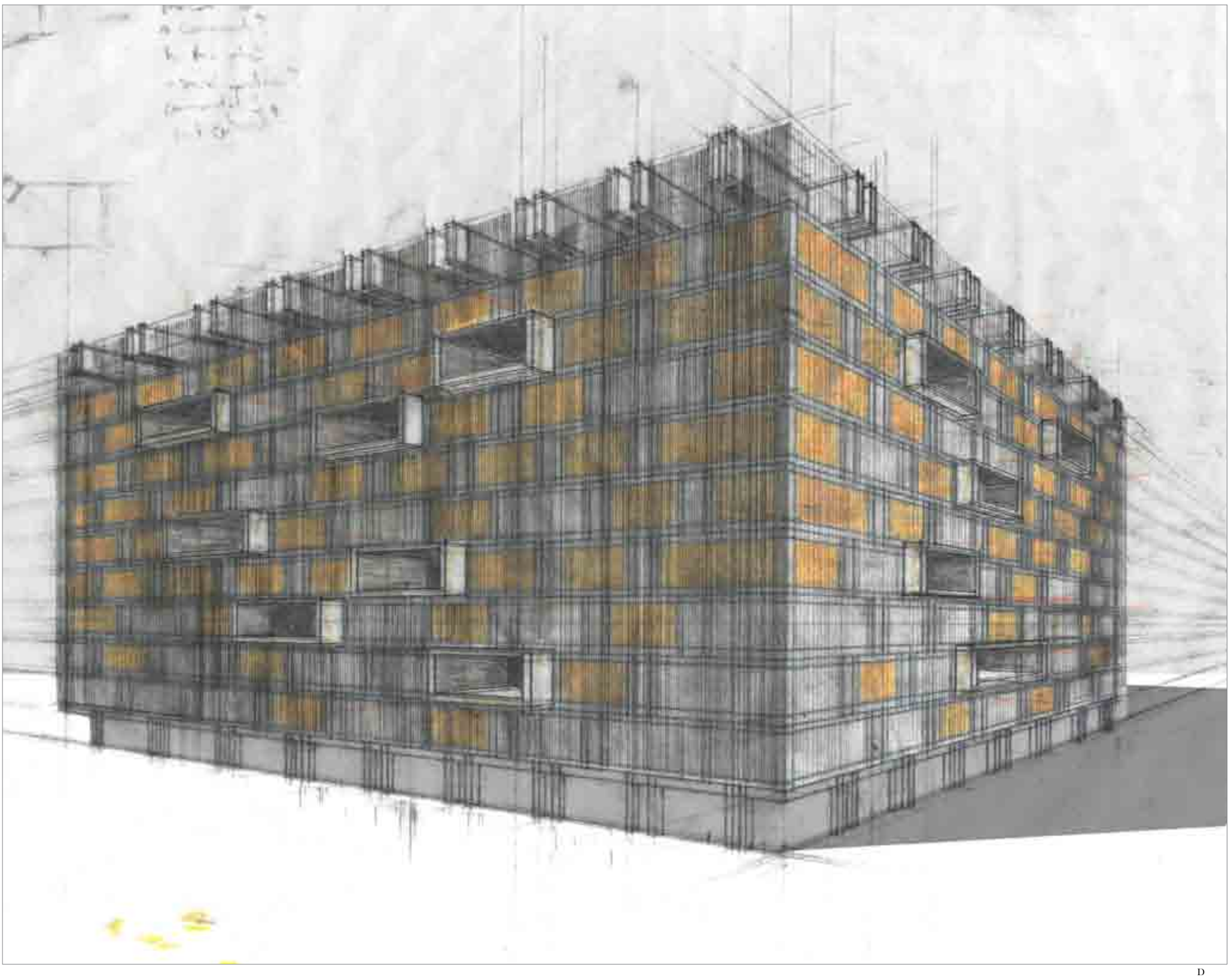
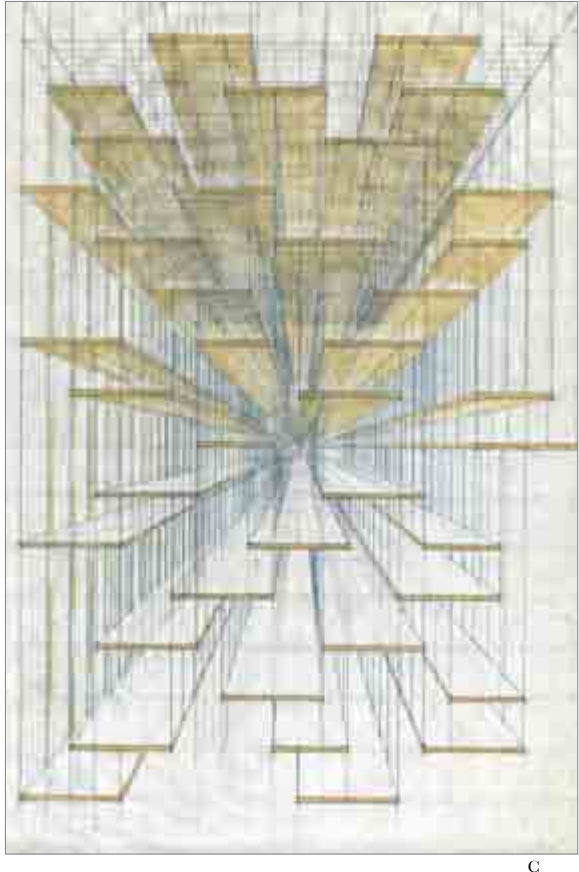
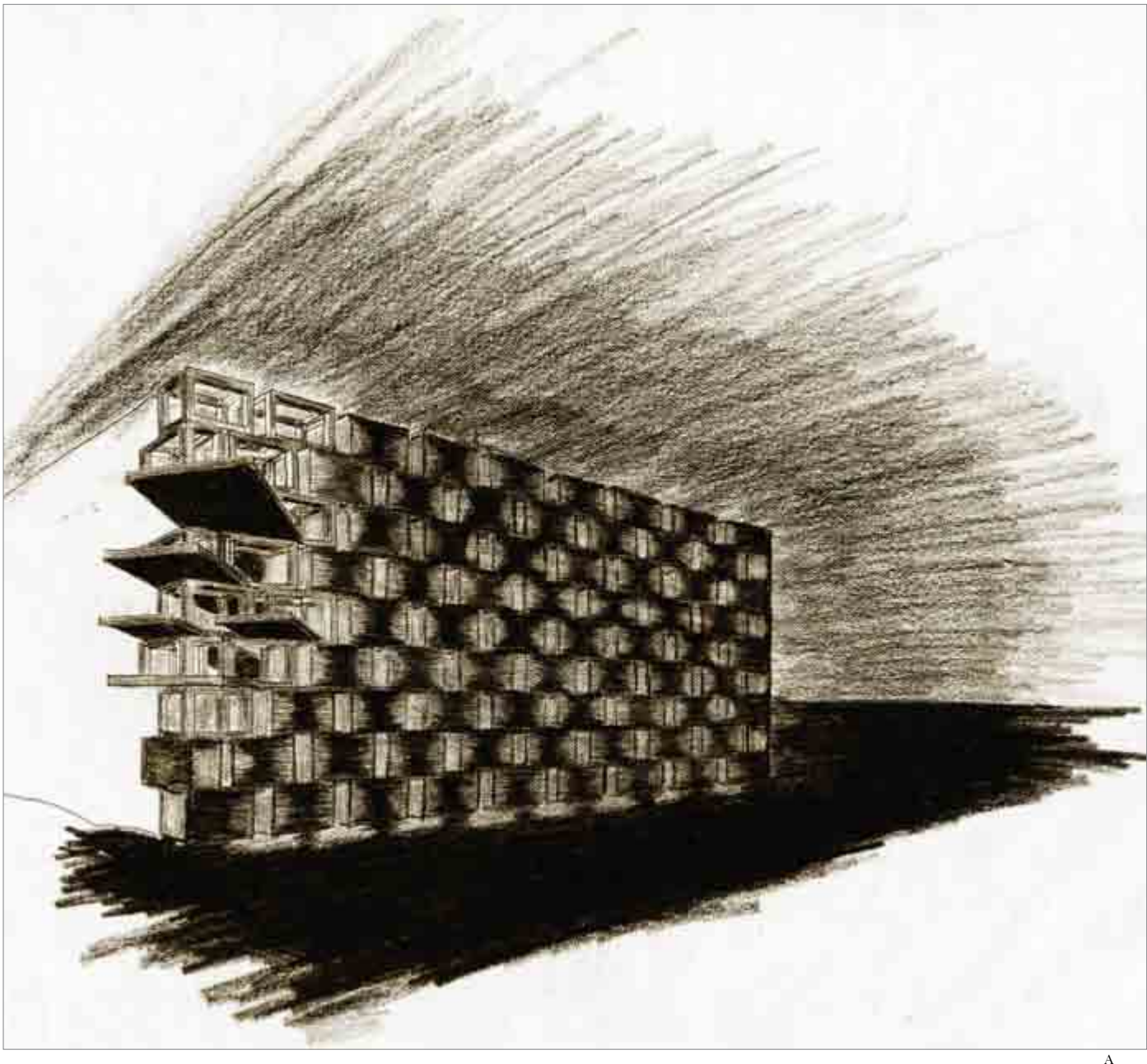
C

8A | HABITAT '67, VASS | USED UNDER FAIR USE, 2013

8B | ROUTE BUILDING SERVING OFFICE TOWERS, TEAM X, P. 65 | USED UNDER FAIR USE, 2013

8C | SITE PLAN DIAGRAM OF BLOCK ORGANIZATION





9A | BLOCK STUDY

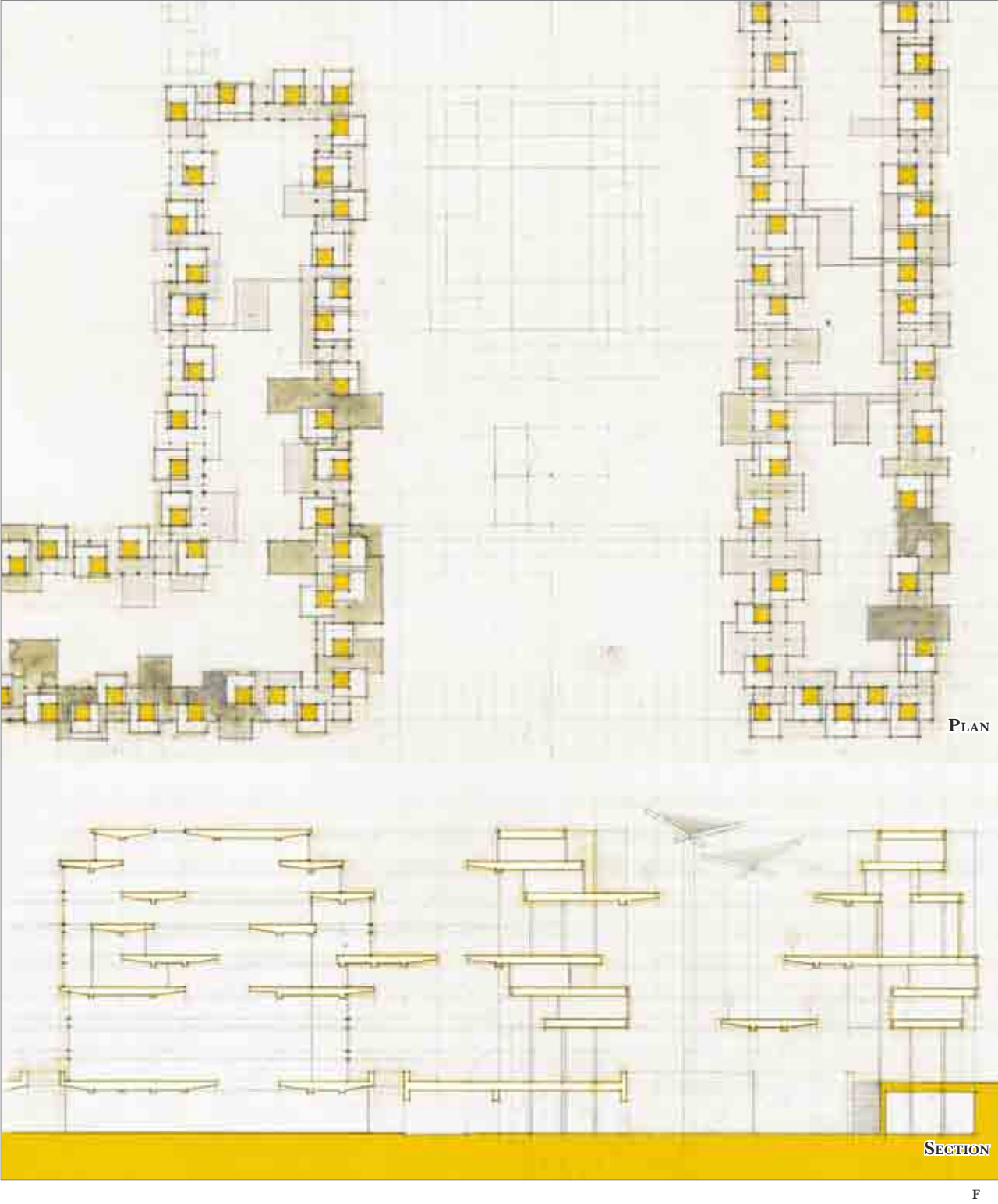
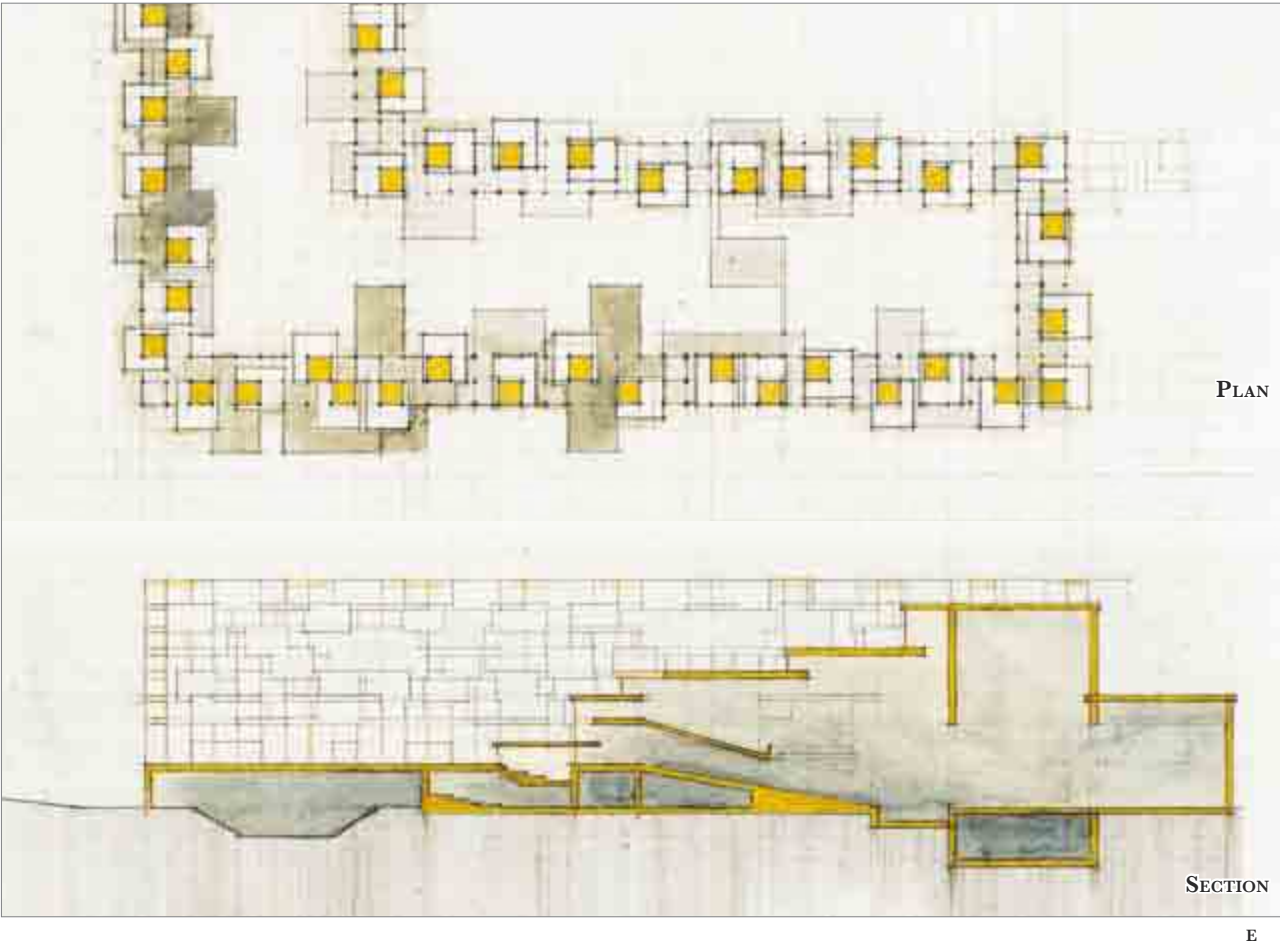
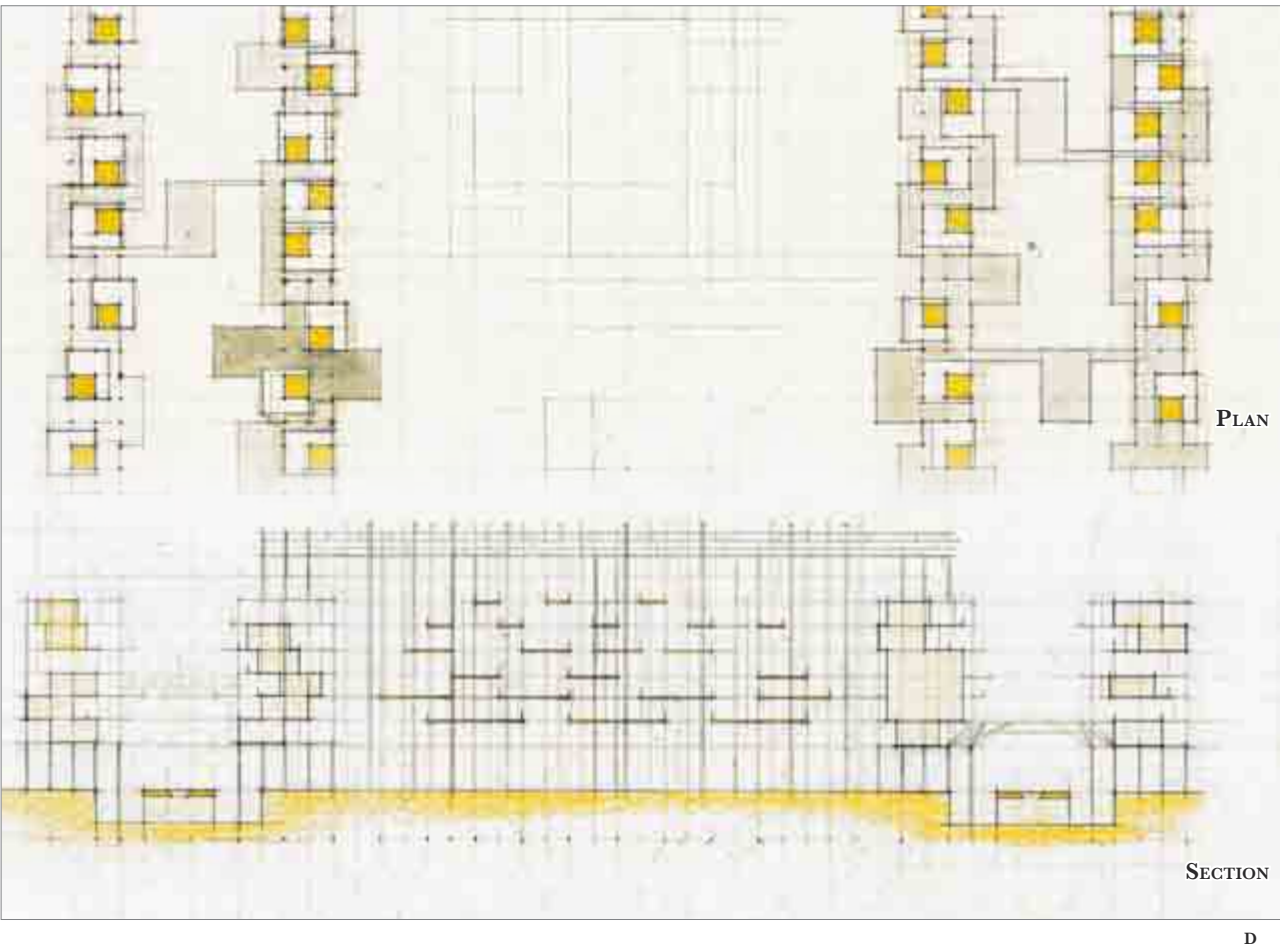
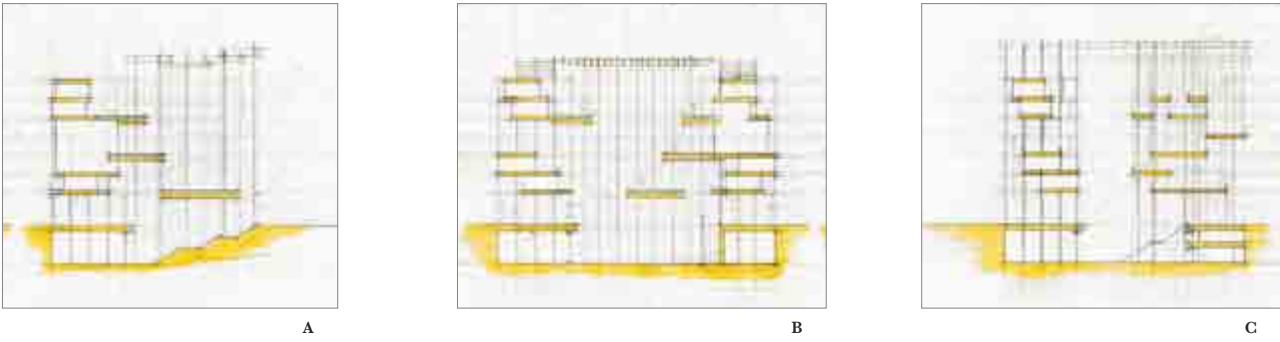
9B | BLOCK STUDY DETAIL

9C | FLOATING BLOCKS

9D | BLOCK STUDY

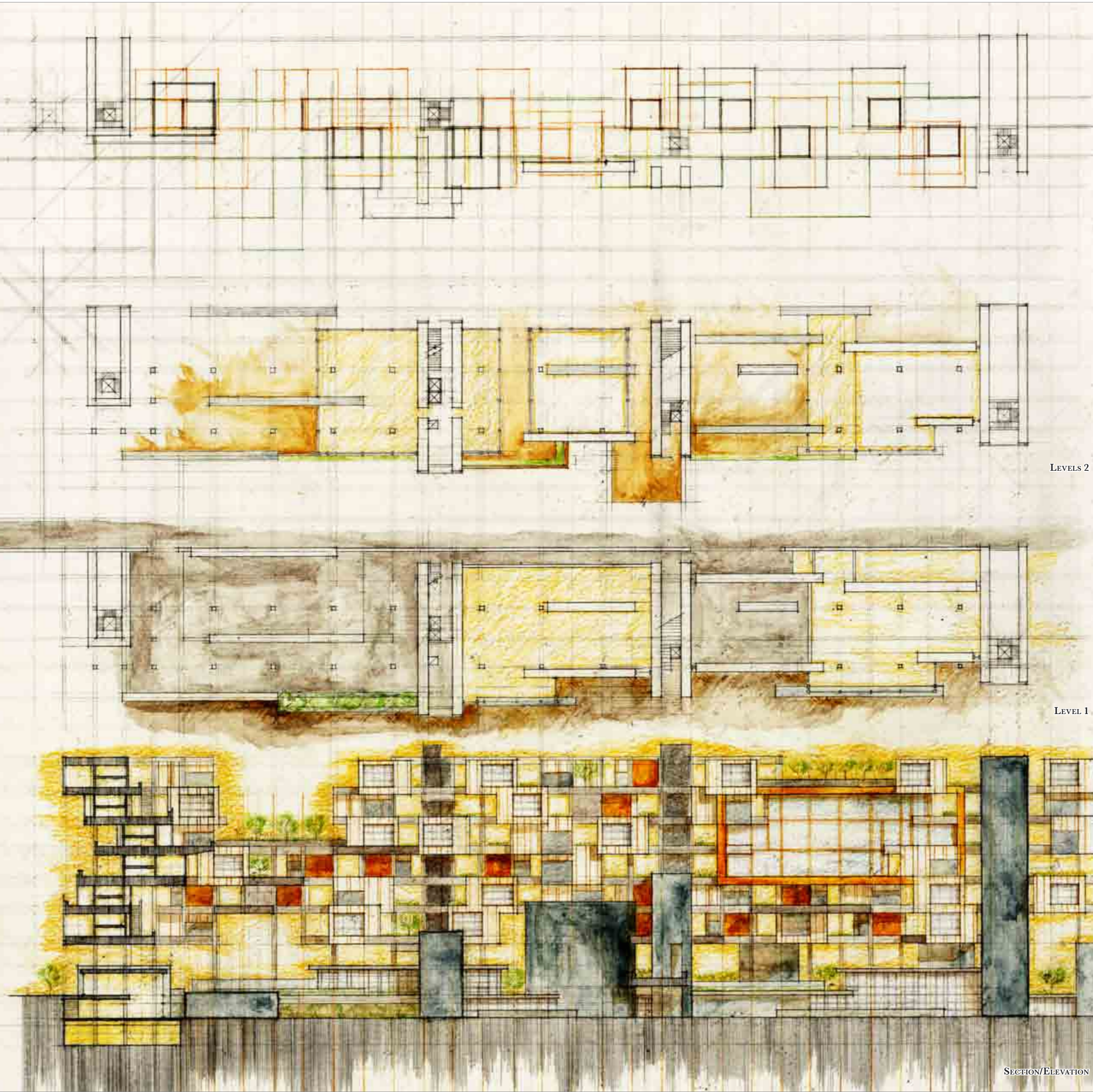
STUDIES OF UNIT BLOCKS





10A, B, & C | SECTION STUDIES  
 10D | PLAN + SECTION STUDIES  
 10E | PLAN + SECTION STUDIES  
 10F | PLAN + SECTION STUDIES







‘Town’

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- 13b | BERLIN LAW COURTS BUILDING, SMITHSON P., TEAM X, p. 69
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- 13d | VILLAGIO MATTEOTTI PLANS AND SECTIONS, DE CARLO, RISSELADA AND VAN DEN HEUVEL, p. 222
- 13e | BERLIN FREE UNIVERSITY, CANDILIS, JOSIC, AND WOODS, TEAM X, p. 62
- 13f | VILLAGIO MATTEOTTI PHOTOGRAPHS, DE CARLO, RISSELADA AND VAN DEN HEUVEL, p. 223
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- 15c | BIRD’S EYE VIEW
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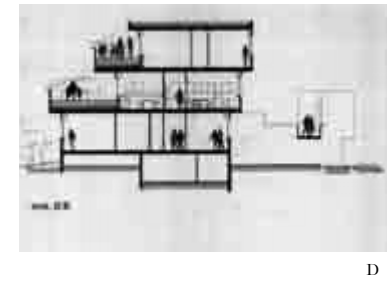
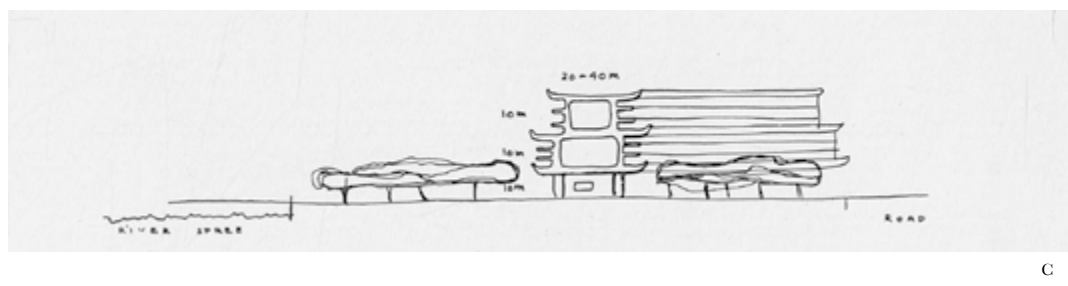
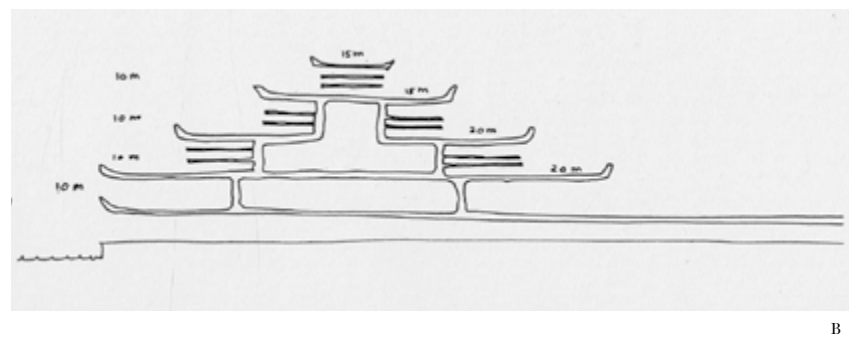
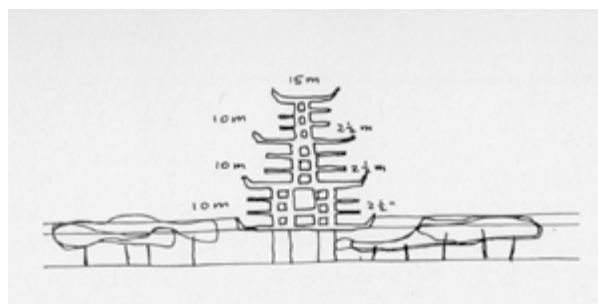
16

PERSPECTIVE - GROUPING OF  
LAYERED UNITS

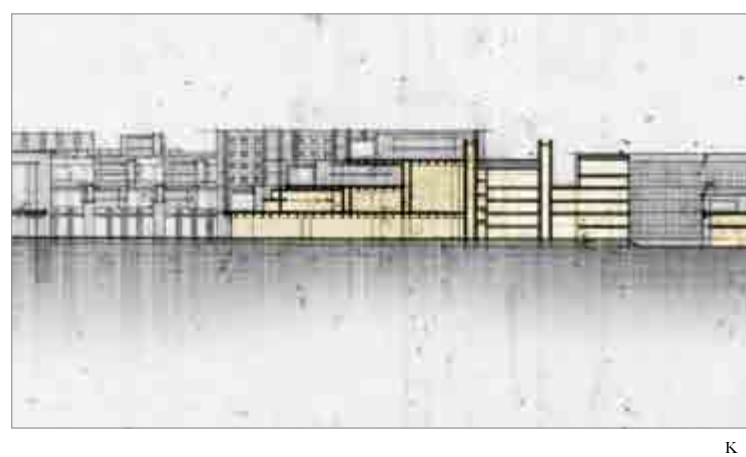
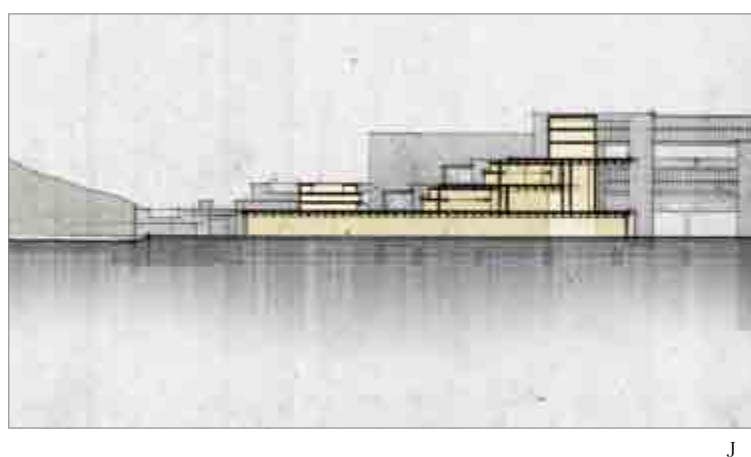
- 16a | INTERIOR TOWN PERSPECTIVE
- 16b | PERSPECTIVE
- 16c | TOWN PERSPECTIVE
- 16d | TOWN SQUARE PERSPECTIVE
- 16e | TOWN PERSPECTIVE
- 16f | INTERIOR TOWN PERSPECTIVE







THIS 'NEW' MODEL IS REALIZED AGAIN BY RECALLING THE FREE UNIVERSITY AND VILLAGIO MATTEOTTI'S STACKING GROUND-SCAPES TO CREATE STRUCTURES THAT BLURRED THE BOUNDARY OF WHAT THE GROUND PLANE IS AND HOW THE BUILDING INTERSECTS IT. THROUGH THE SHIFTING AND DISTORTING OF THE PLANE, THE DISCONNECT FROM THE GROUND INDUCED BY TALLER BUILDINGS IS MITIGATED - IF NOT SHIFTED TO A LABYRINTHINE EXPERIENCE. YET THROUGH THAT SHIFTING, WITHIN THE NEW PLANES ESTABLISHED, DIFFERING FORMS AND SPACES ARISES.



13A | BERLIN PLAN, HOTEL BUILDING, SECTION, SMITHSON P., TEAM X, p. 69 | USED UNDER FAIR USE, 2013

13B | BERLIN LAW COURTS BUILDING, SMITHSON P., TEAM X, P. 69 | USED UNDER FAIR USE, 2013

13C | BERLIN PARLIAMENTARY BUILDING, SMITHSON P., TEAM X, P. 69 | USED UNDER FAIR USE, 2013

13D | VILLAGIO MATTEOTTI PLANS AND SECTIONS, DE CARLO, RISSELADA AND VAN DEN HEUVEL, P. 222 | USED UNDER FAIR USE, 2013

13E | BERLIN FREE UNIVERSITY, CANDILIS, JOSIC, AND WOODS, TEAM X, p. 62 | USED UNDER FAIR USE, 2013

13F | VILLAGIO MATTEOTTI PHOTOGRAPHS, DE CARLO, RISSELADA AND VAN DEN HEUVEL, P. 223 | USED UNDER FAIR USE, 2013

13G | FREE UNIVERSITY, RISSELADA AND VAN DEN HEUVEL, P. 223 | USED UNDER FAIR USE, 2013

13H | SITE PLAN TOWN DIAGRAM

13J | TOWN SECTION

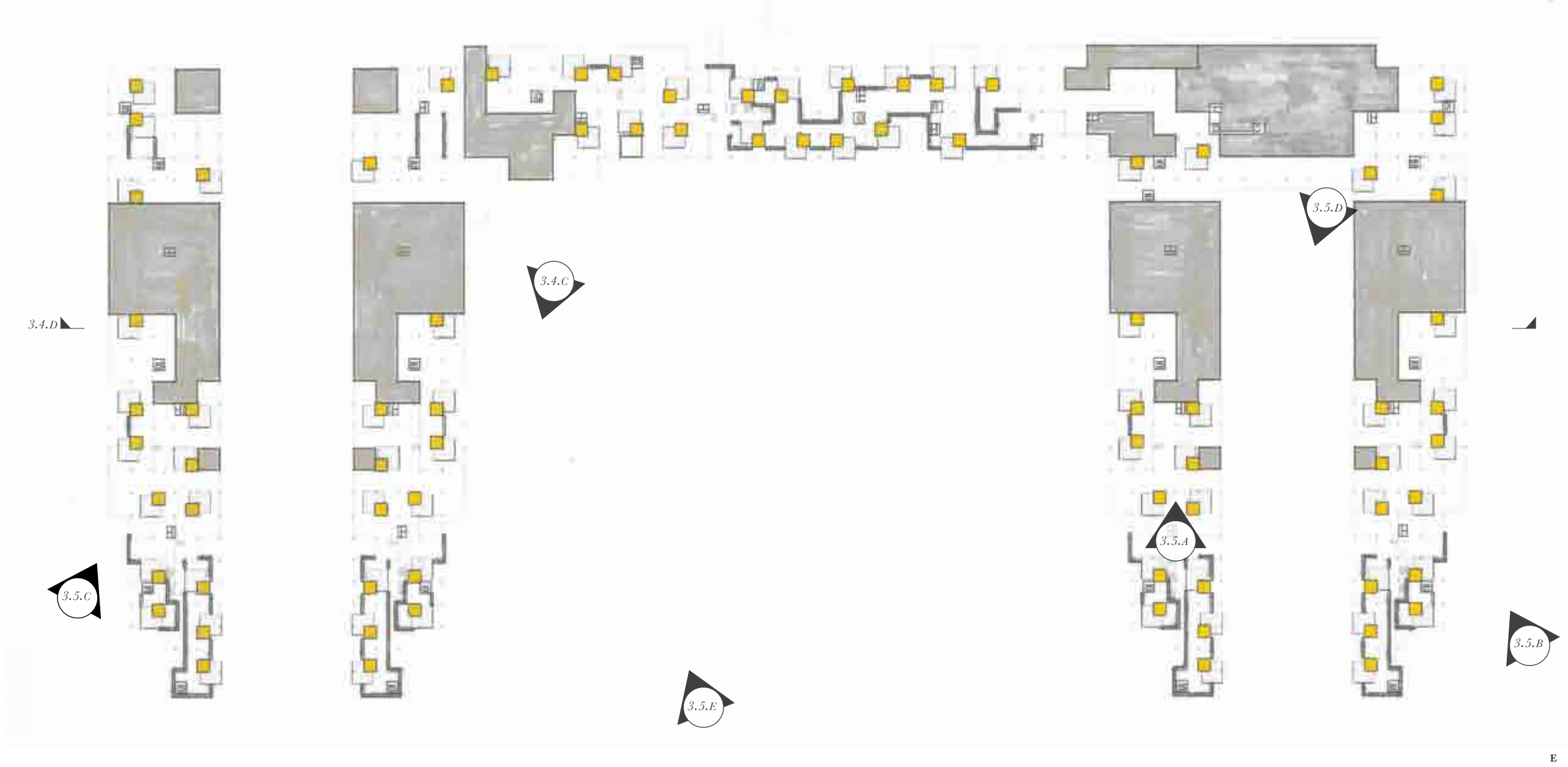
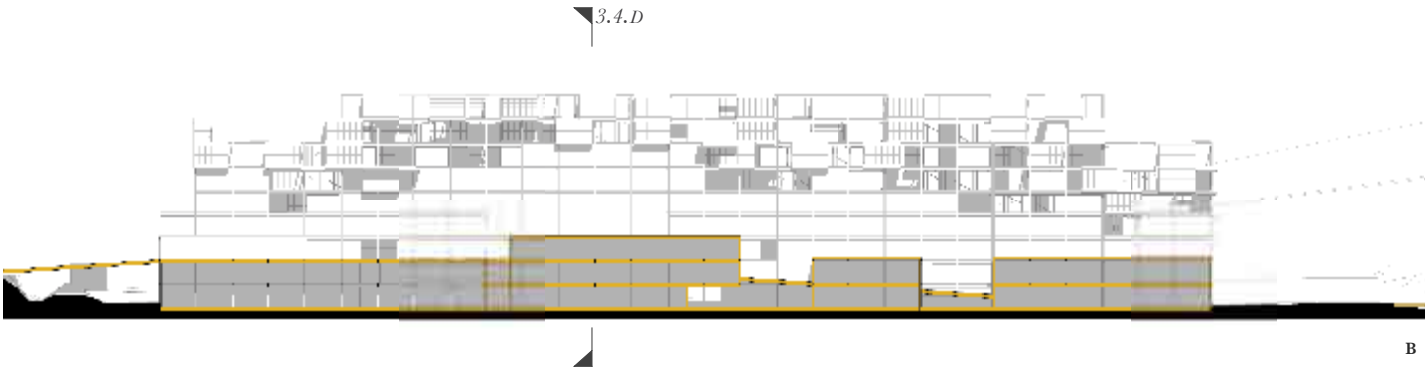
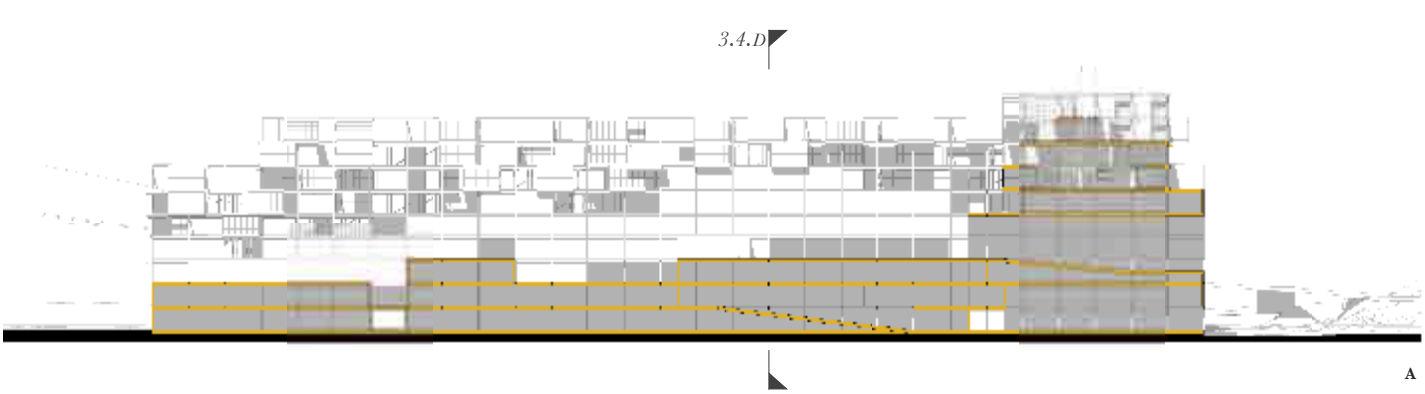
13K | TOWN SECTION

## INTRODUCTION



DIAGRAM OF PROGRAMMATIC LAYERING AND ALLOCATION



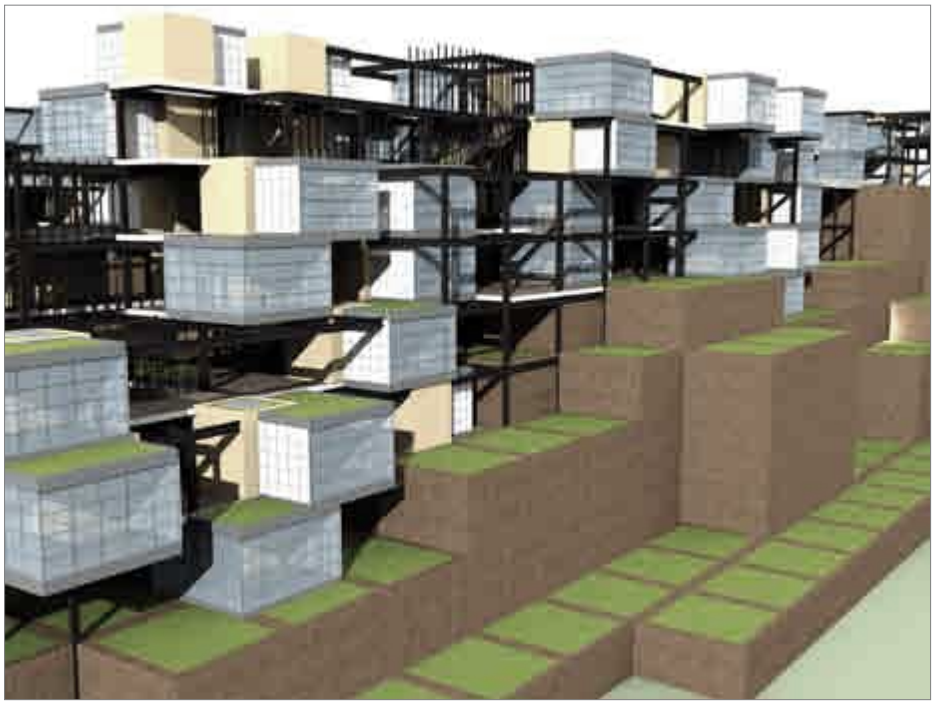


15A | TOWN STUDY SITE SECTION  
 15B | TOWN STUDY SITE SECTION  
 15C | BIRD'S EYE VIEW  
 15D | TOWN STUDY SITE SECTION  
 15E | TOWN STUDY PLAN

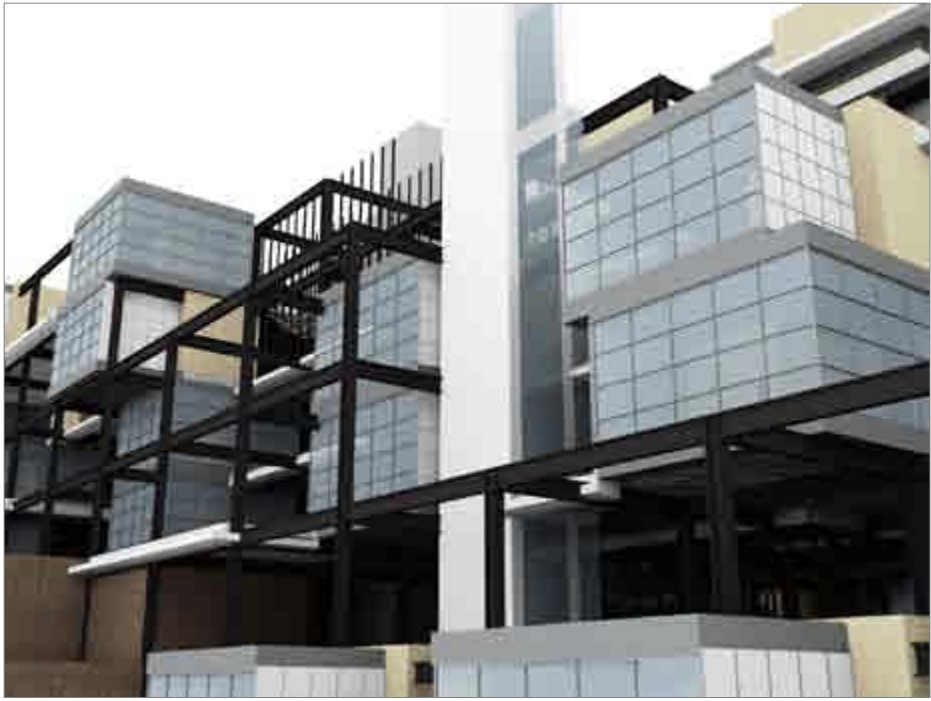




A



B



C



D



E



F

16A | INTERIOR TOWN PERSPECTIVE

16B | PERSPECTIVE

16C | TOWN PERSPECTIVE

16D | TOWN SQUARE PERSPECTIVE

16E | TOWN PERSPECTIVE

16F | INTERIOR TOWN PERSPECTIVE

PERSPECTIVE - GROUPING OF LAYERED UNITS



‘City’

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20B | EARLY PLAN STUDY

20C | EARLY PLAN STUDY

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INITIAL DIAGRAM MODEL AND  
PLAN OF SITE

21A | INITIAL SITE PLAN

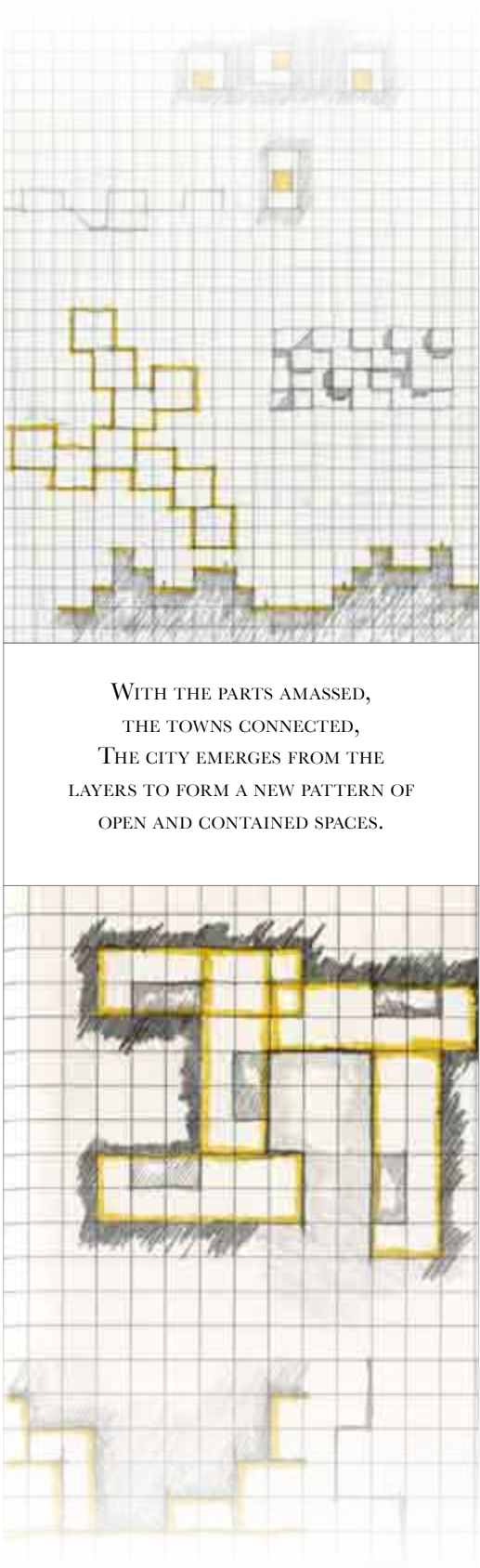
21B | STUDY MODEL

21C | STUDY MODEL

21D | STUDY MODEL

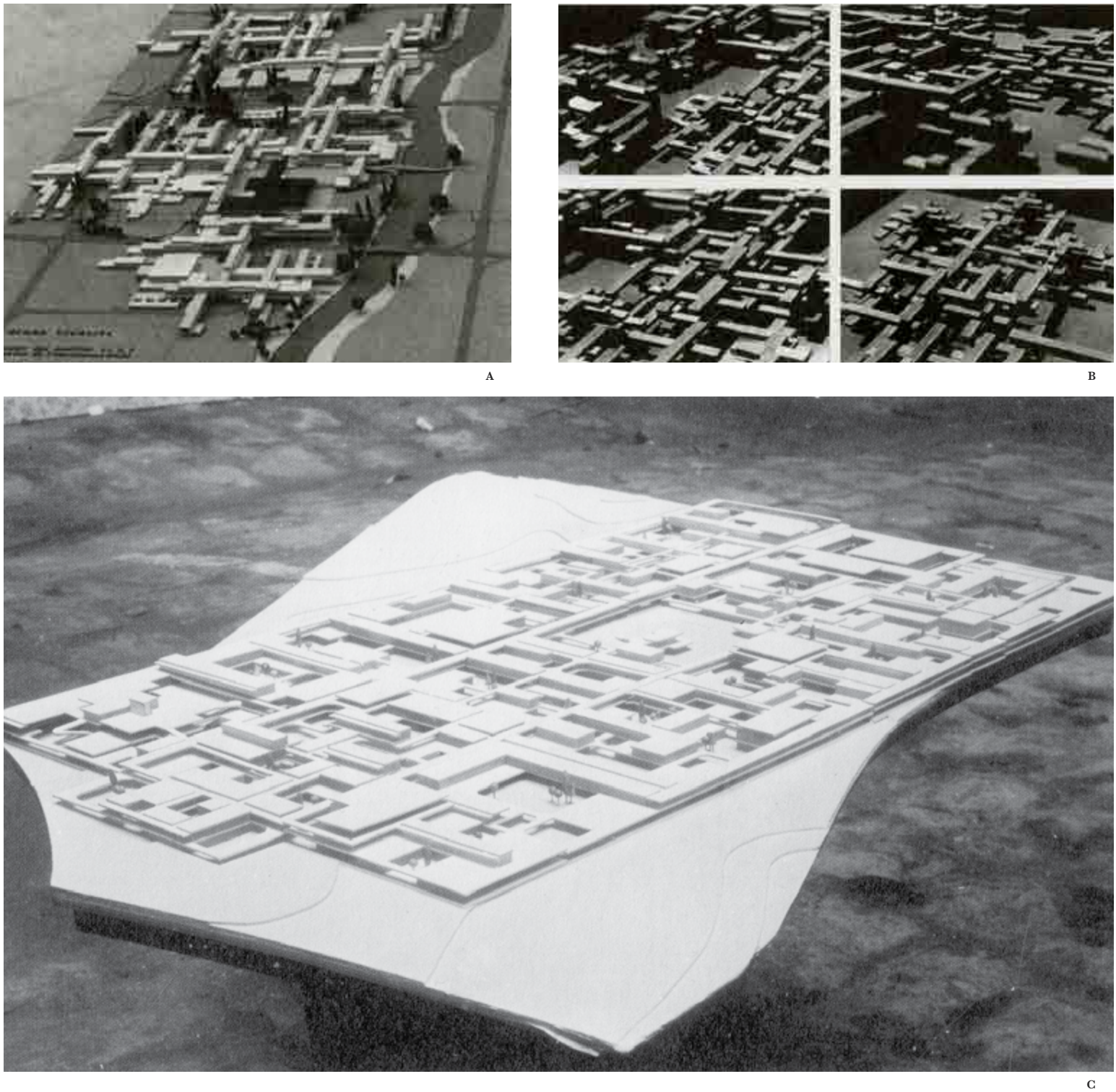
21E | STUDY MODEL

21F | STUDY MODEL

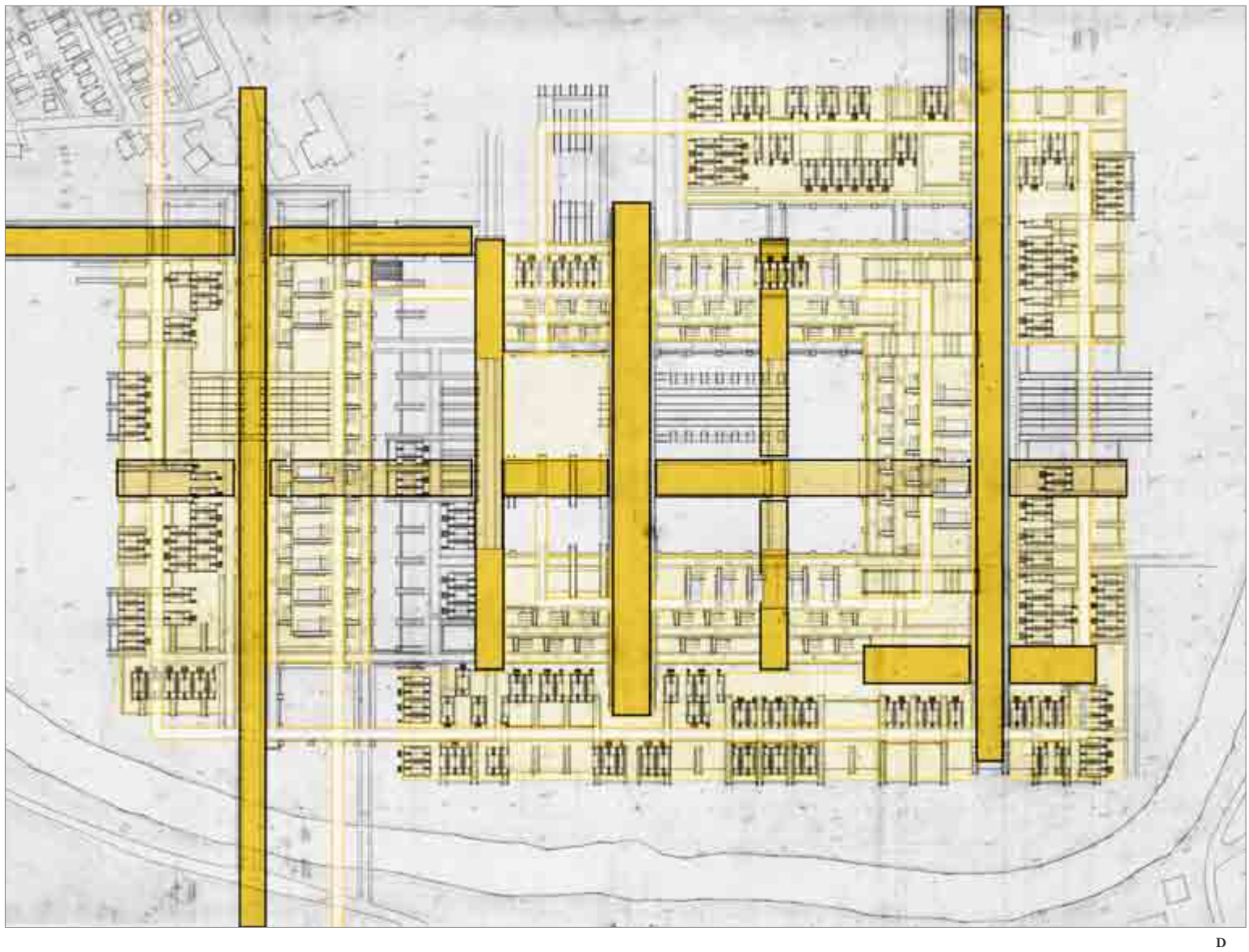


WITH THE PARTS AMASSED,  
THE TOWNS CONNECTED,  
THE CITY EMERGES FROM THE  
LAYERS TO FORM A NEW PATTERN OF  
OPEN AND CONTAINED SPACES.





REFLECTING THE FORM OF DWELLINGS, SHIFTING THE SCALE OF WHAT IS CONSIDERED HOME FROM SMALL TO LARGE, THE SPINES TIE THE TOWNS TOGETHER. THE SPINES AID IN THE VERTICAL TRANSITIONS FROM EACH LAYER WHILE ALSO PROVIDING EXTERNAL CONNECTIONS TO OTHER SITES. WHILE THE LINE BETWEEN BUILDING AND LANDSCAPE BLENDS, THE DIAGRAM VENTURES FURTHER AWAY FROM A FIGURE/GROUND DIAGRAM.



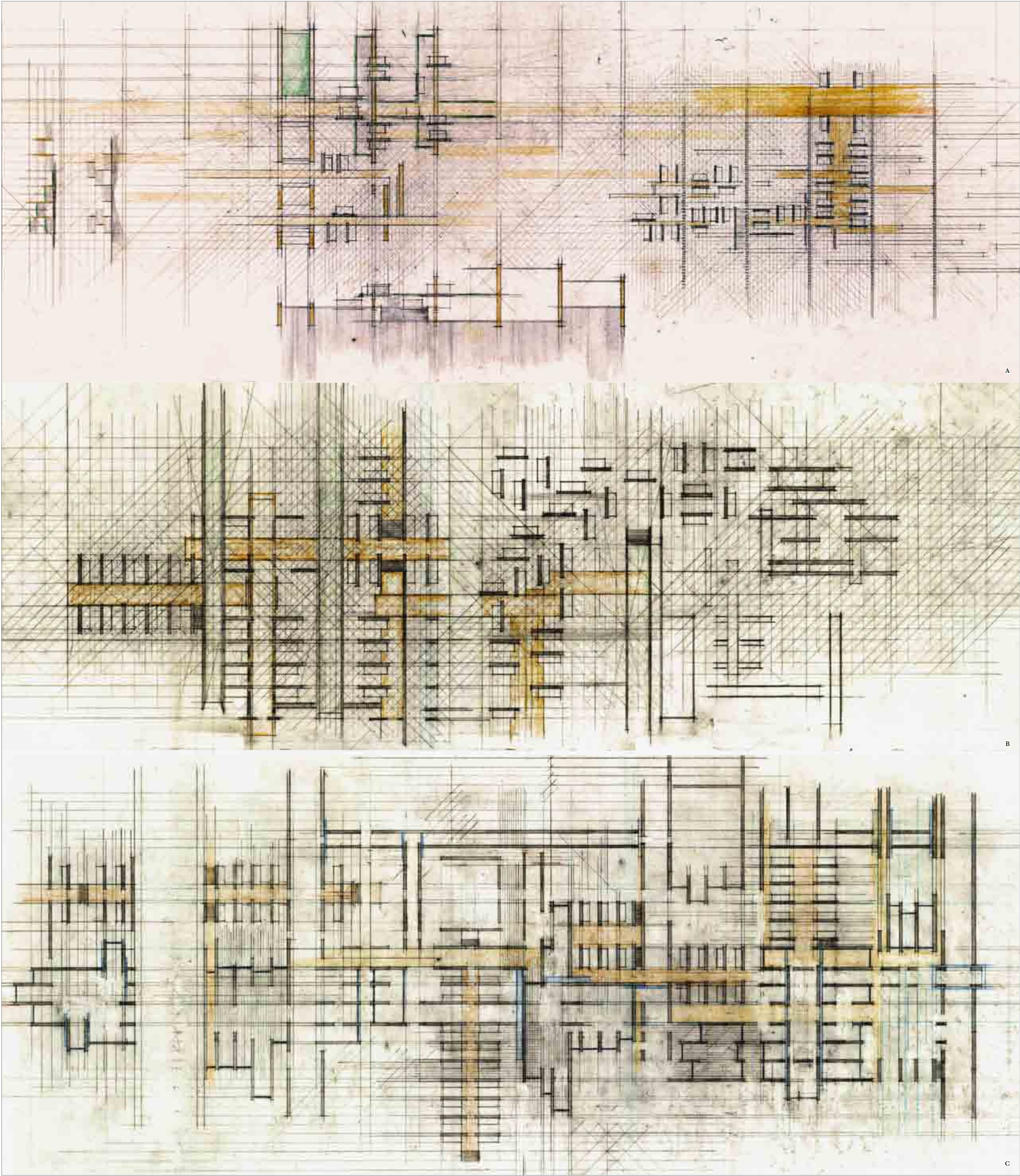
18A | MODEL STUDY OF PROJECT LE VAUDREUIL, PARIS, ATELIER DE MONTRouGE, RISSELADA AND VAN DEN HEUVEL, P. 280 | USED UNDER FAIR USE, 2013

18B | MODEL STUDY OF PROJECT LE VAUDREUIL, PARIS, ATELIER DE MONTRouGE, RISSELADA AND VAN DEN HEUVEL, P. 280 | USED UNDER FAIR USE, 2013

18C | FREE UNIVERSITY COMPETITION, CANDILIS, JOSIG, AND WOODS, RISSELADA AND VAN DEN HEUVEL, P. 135 | USED UNDER FAIR USE, 2013

18D | SITE PLAN DENOTING UNIFYING SPINES



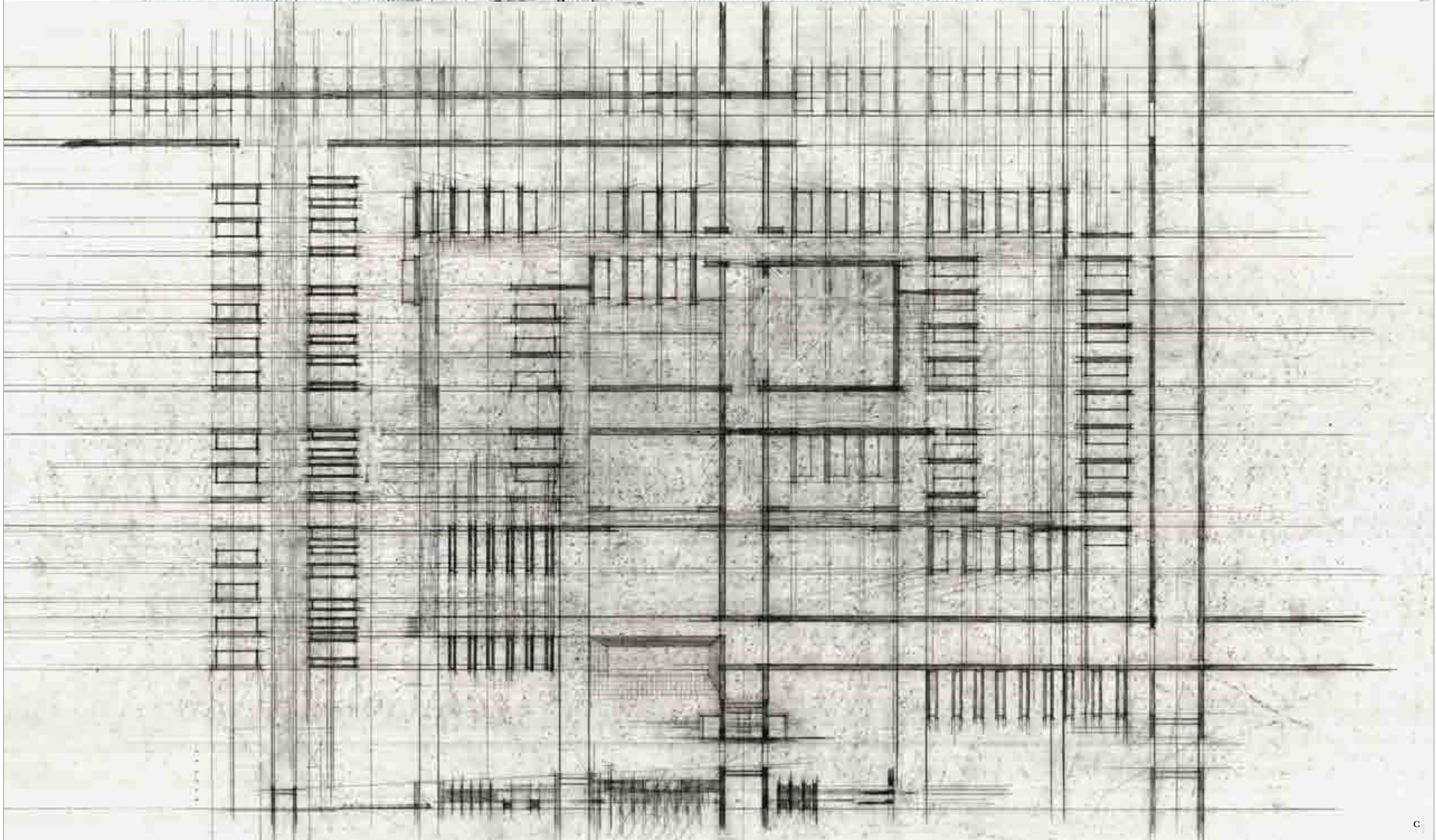
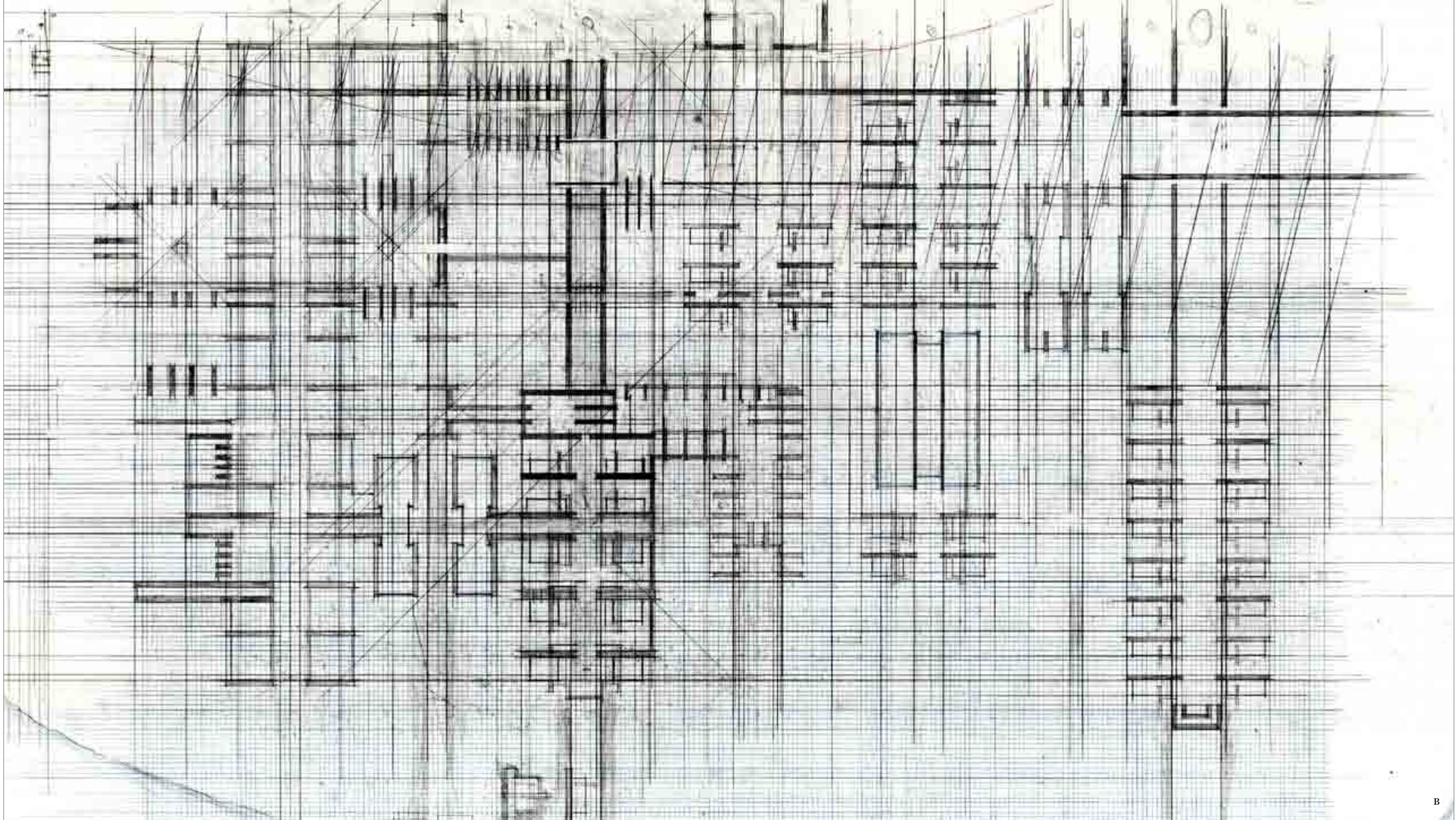
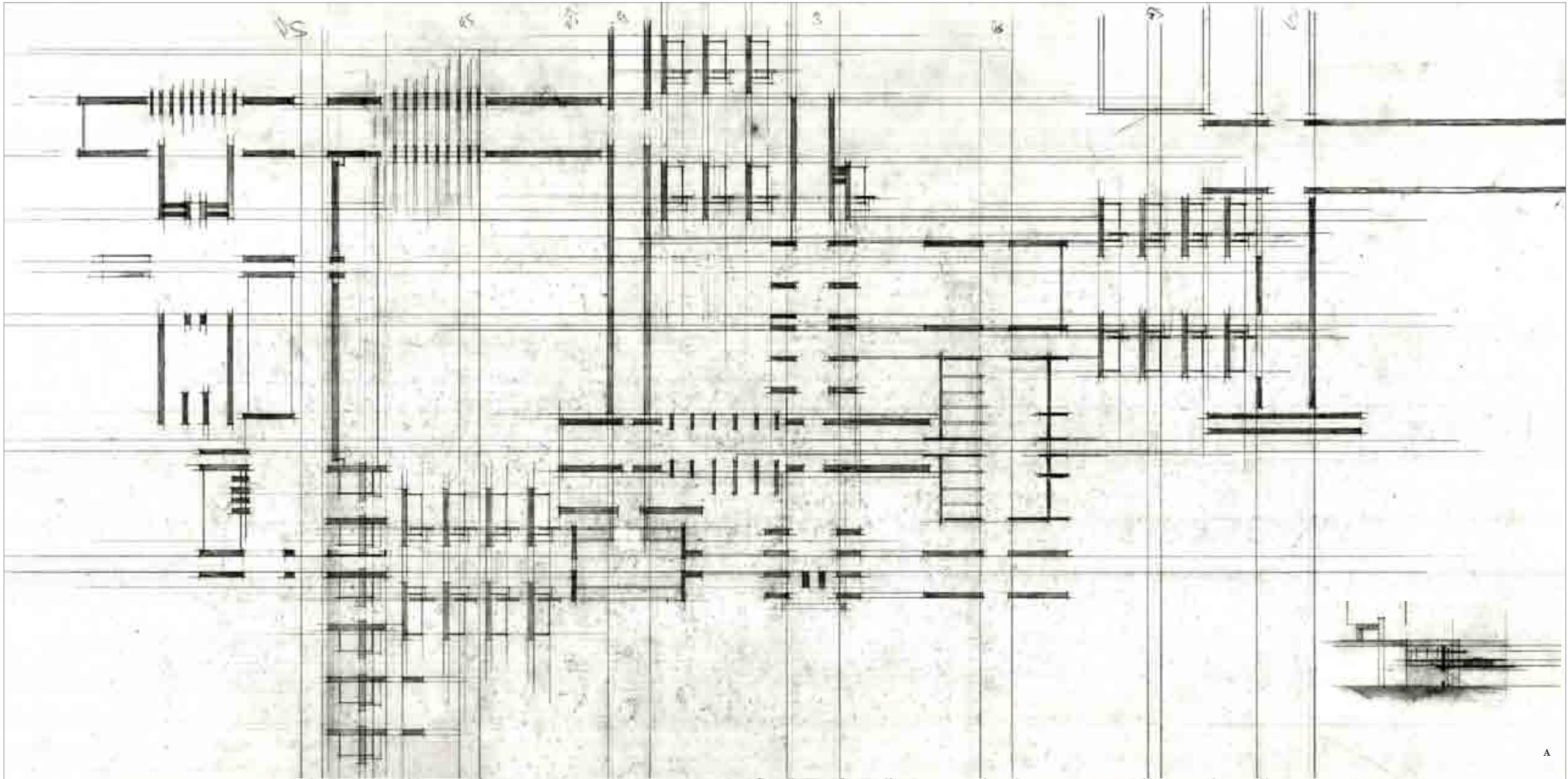


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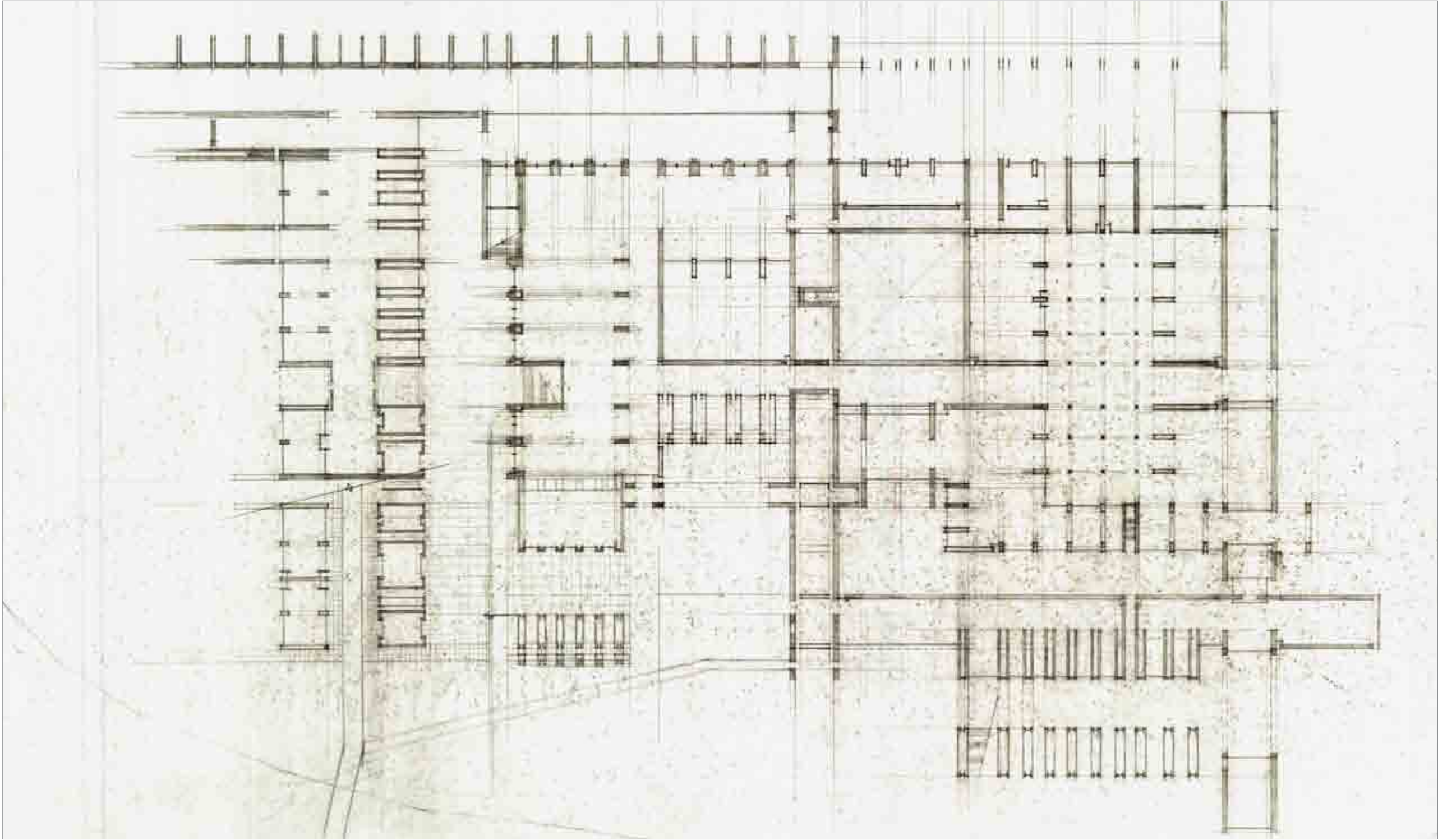
19A | STUDY #1  
19B | STUDY #2  
19C | STUDY #3

19A | EARLY PLAN STUDY  
19B | EARLY PLAN STUDY  
19C | EARLY PLAN STUDY

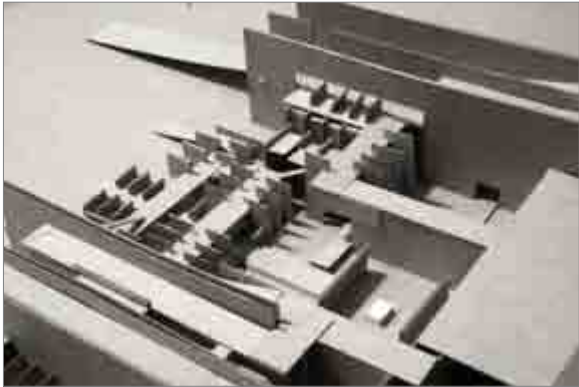








A



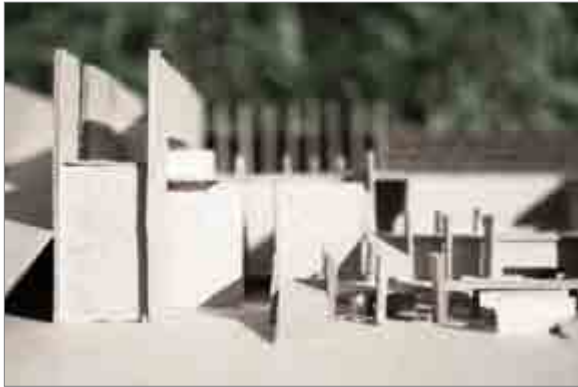
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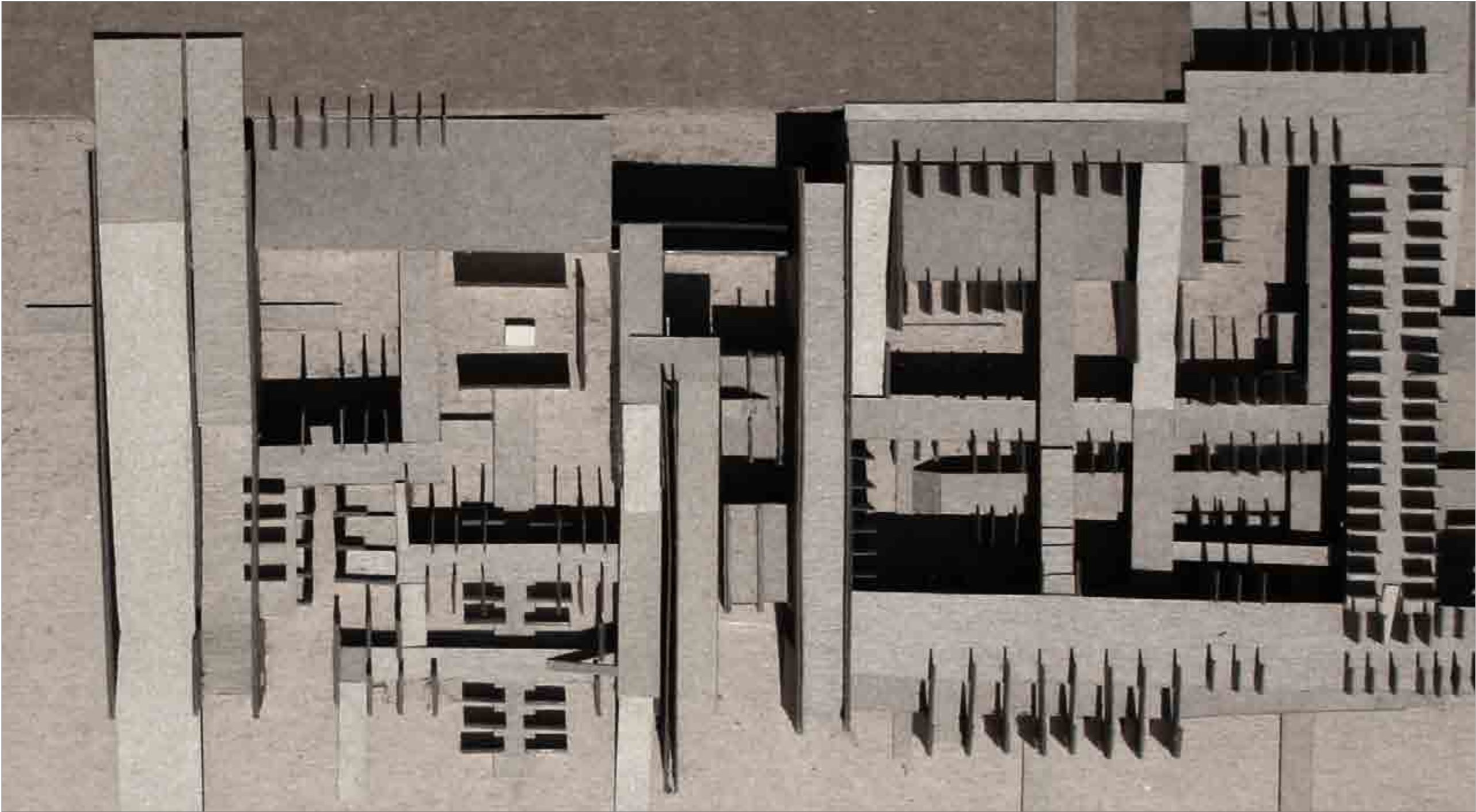
C



D



E



F

- 21A | INITIAL SITE PLAN
- 21B | STUDY MODEL
- 21C | STUDY MODEL
- 21D | STUDY MODEL
- 21E | STUDY MODEL
- 21F | STUDY MODEL



‘Urban Model’

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27

PLAN | LEVEL 2

28

PLAN | LEVEL 3

29

PLAN | LEVEL 4

30

OVERALL PLAN | SIDE A

31

OVERALL PLAN | SIDE B

32

SITE SECTION | SIDE A

33

SITE SECTION | SIDE B

33A | SITE SECTION

33B | SITE SECTION

33C | SITE SECTION

34

SITE SECTIONS

34A | SITE SECTION

34B | SITE SECTION

34C | SITE SECTION

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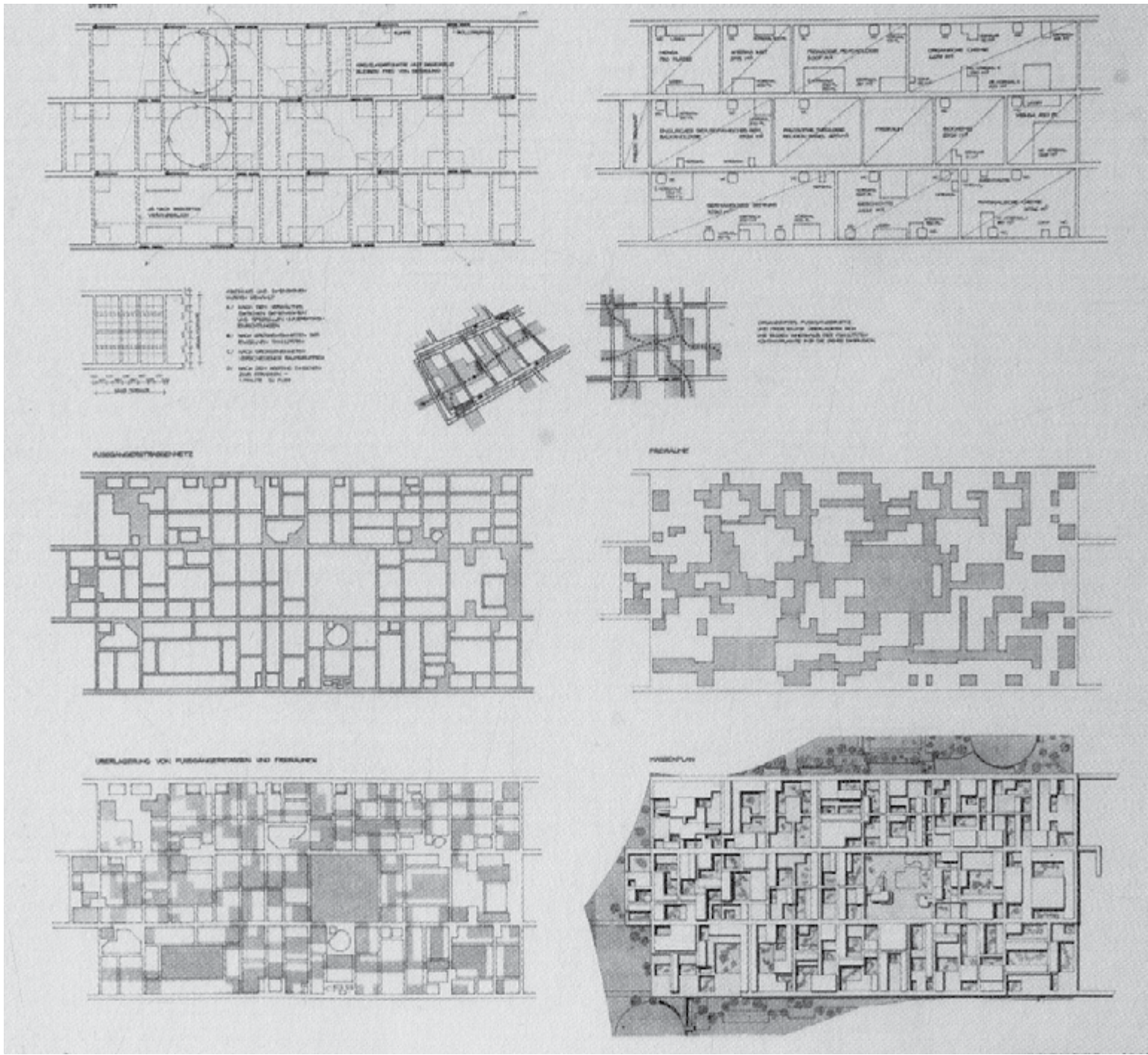
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PERSPECTIVE | BIRD’S EYE VIEW

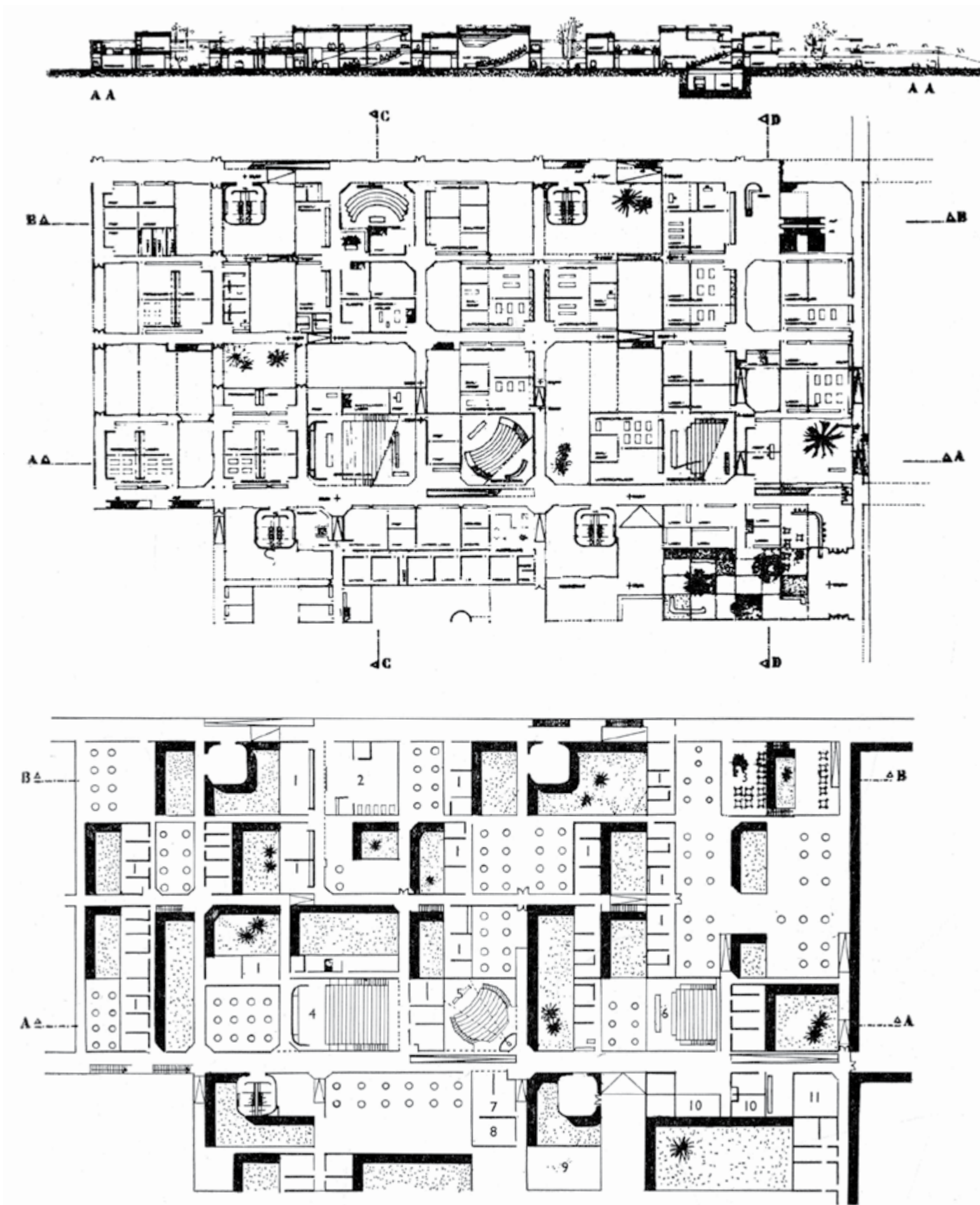
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CONCEPT SKETCH





A



B



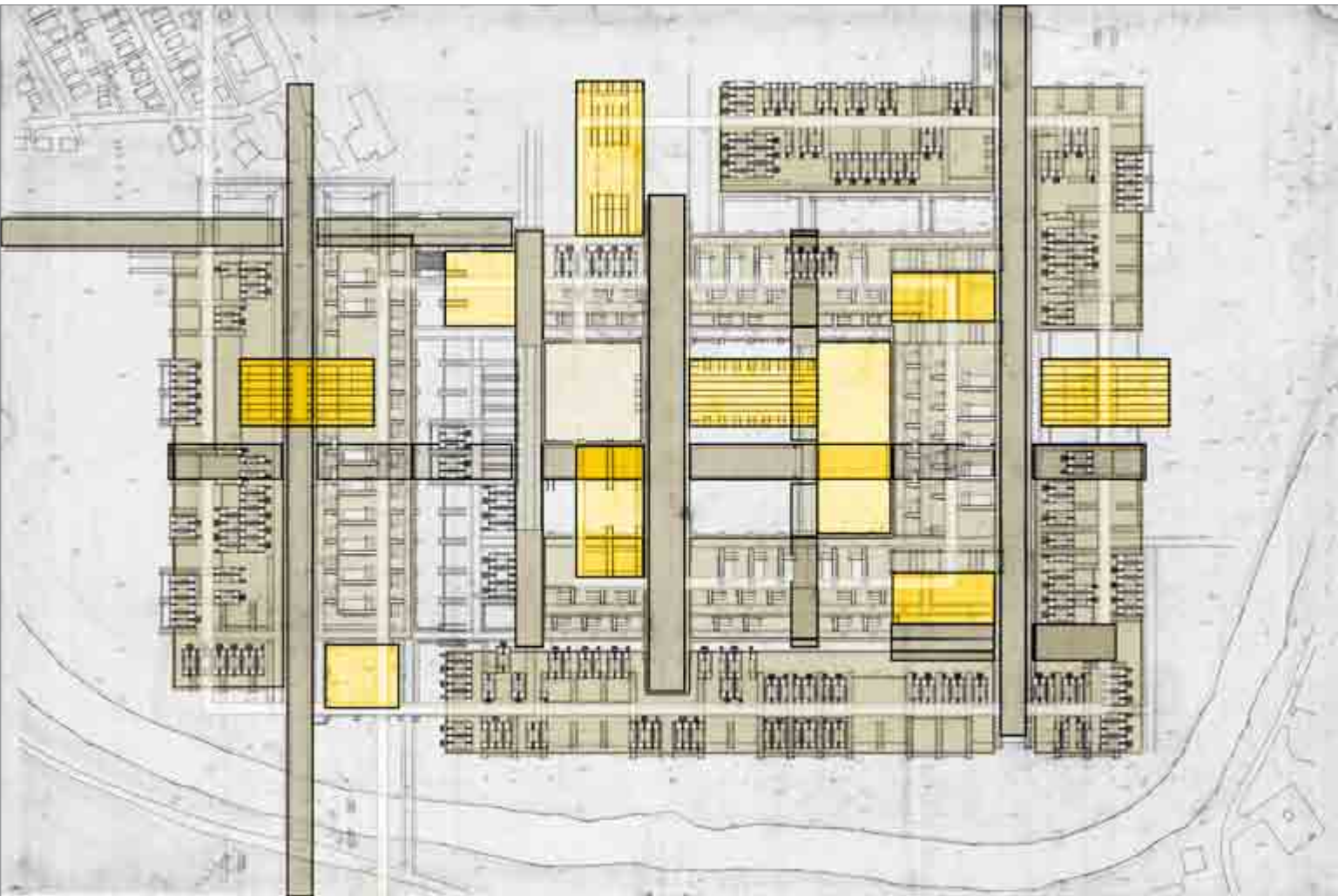


A



B

NEW ADDITIONS ARE ACCOMMODATED IN THE NICHES AND VOIDS OF THE ASSEMBLED FRAMEWORK PIECES.  
BUT THE EXPERIENCE OF THE PERCEPTIONS OF THE PLACE OCCURS IN A SERIES A MOMENTS.



C

24A | FREE UNIVERSITY COMPETITION, CANDILIS, JOSIC, AND WOODS, RISSELADA AND VAN DEN HEUVEL, P. 188 | USED UNDER FAIR USE, 2013

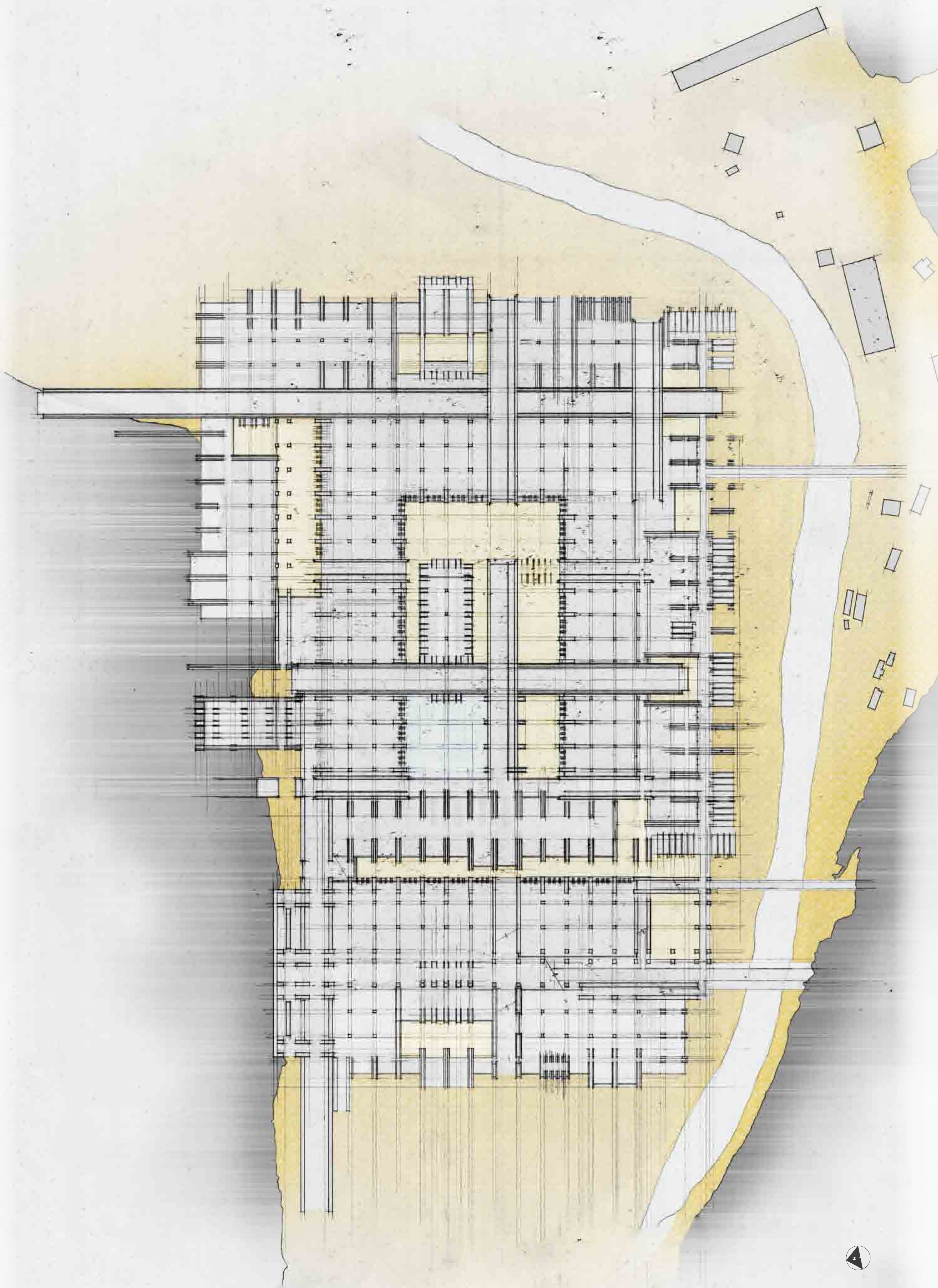
24B | FREE UNIVERSITY COMPETITION, CANDILIS, JOSIC, AND WOODS, RISSELADA AND VAN DEN HEUVEL, P. 189 | USED UNDER FAIR USE, 2013

24C | SITE PLAN OF AUXILIARY BUILDINGS AND OPEN PUBLIC SPACES

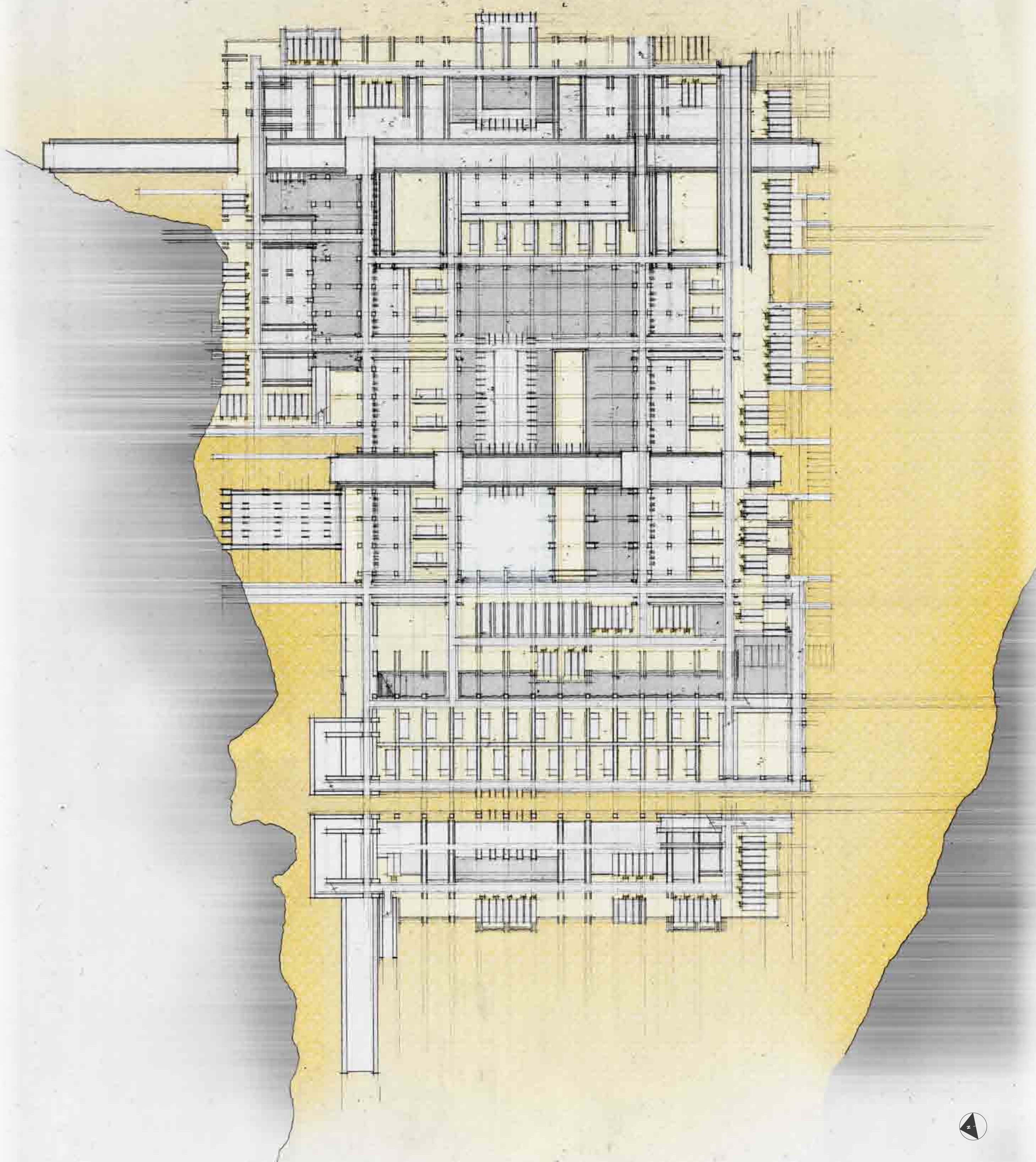




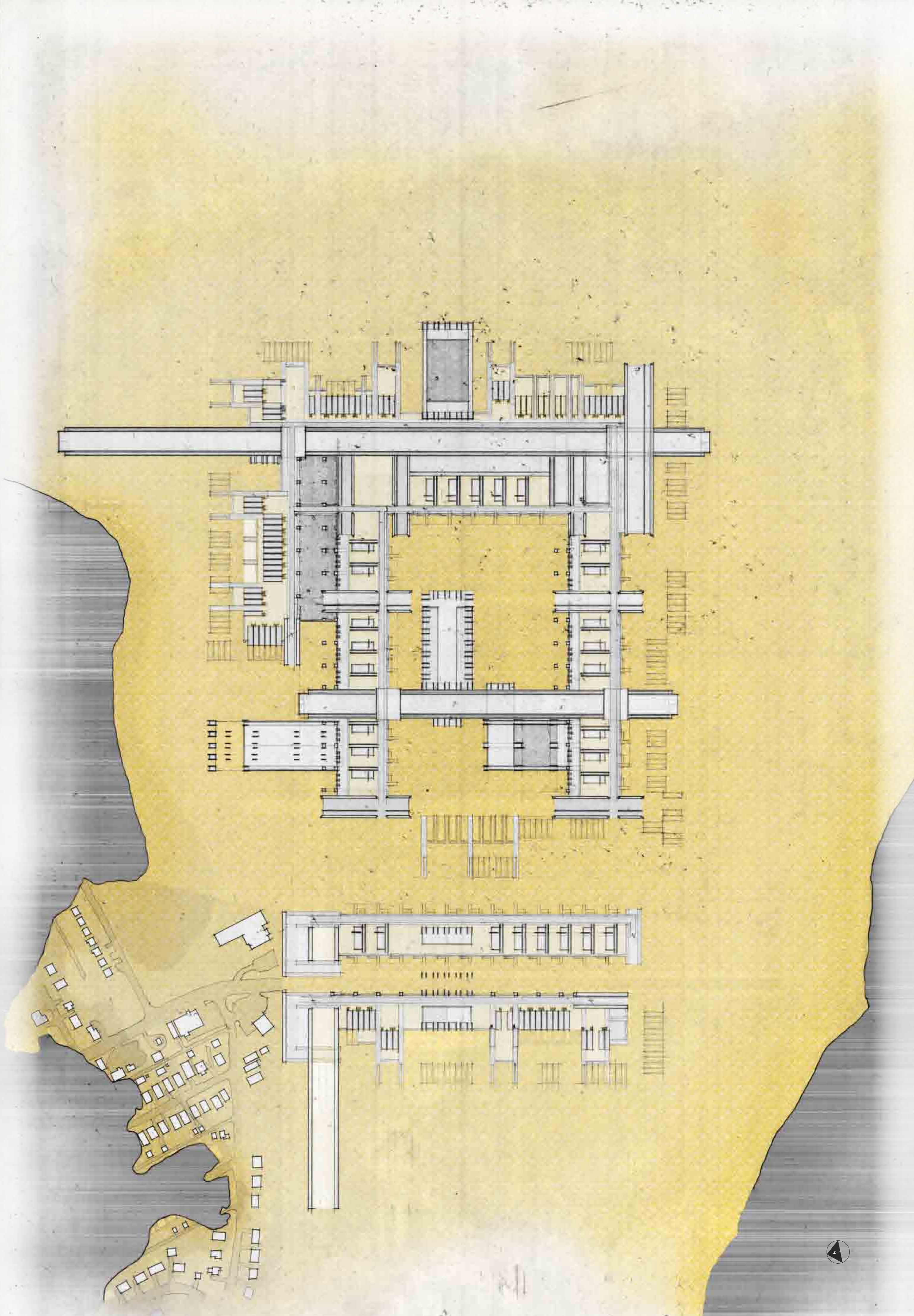




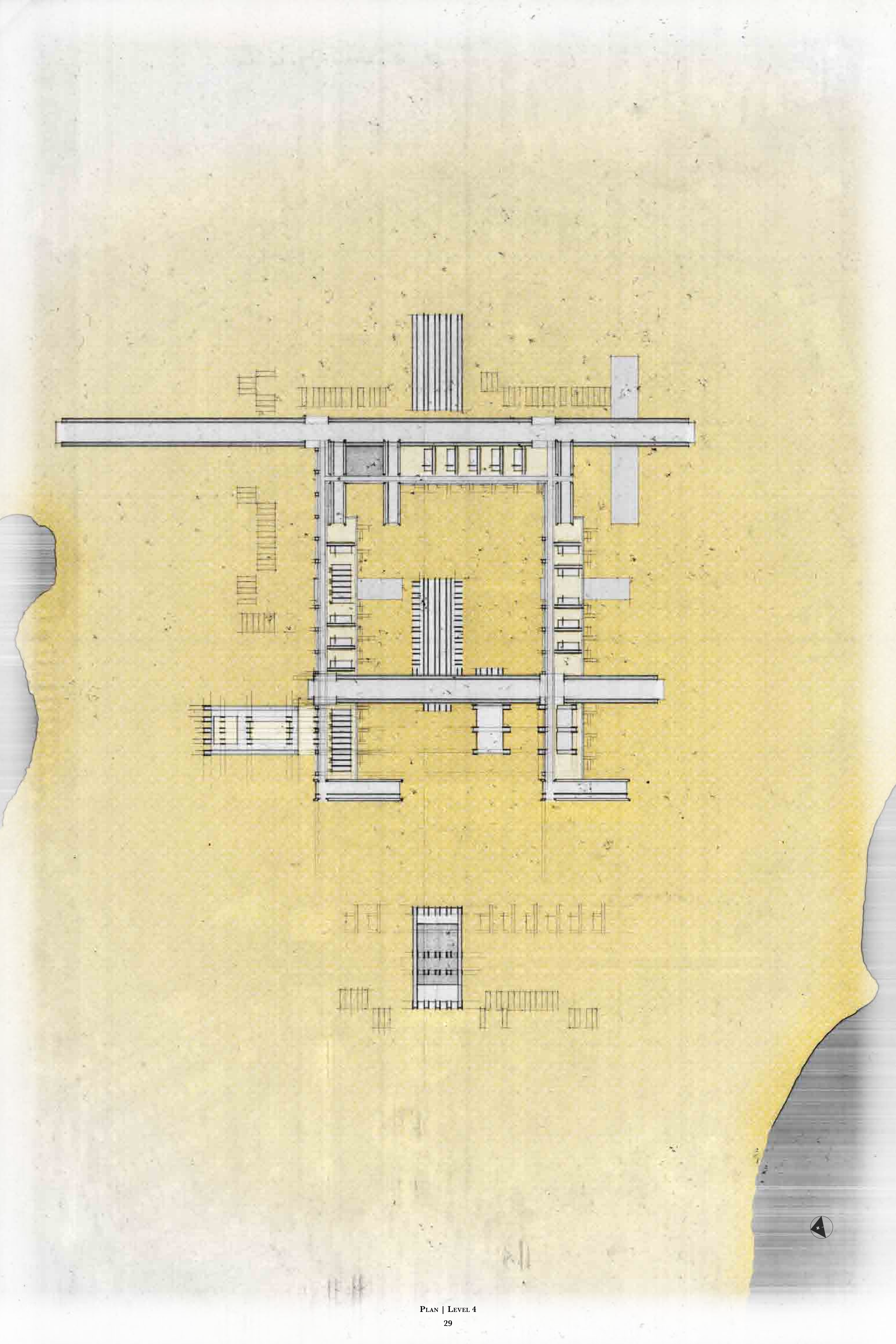




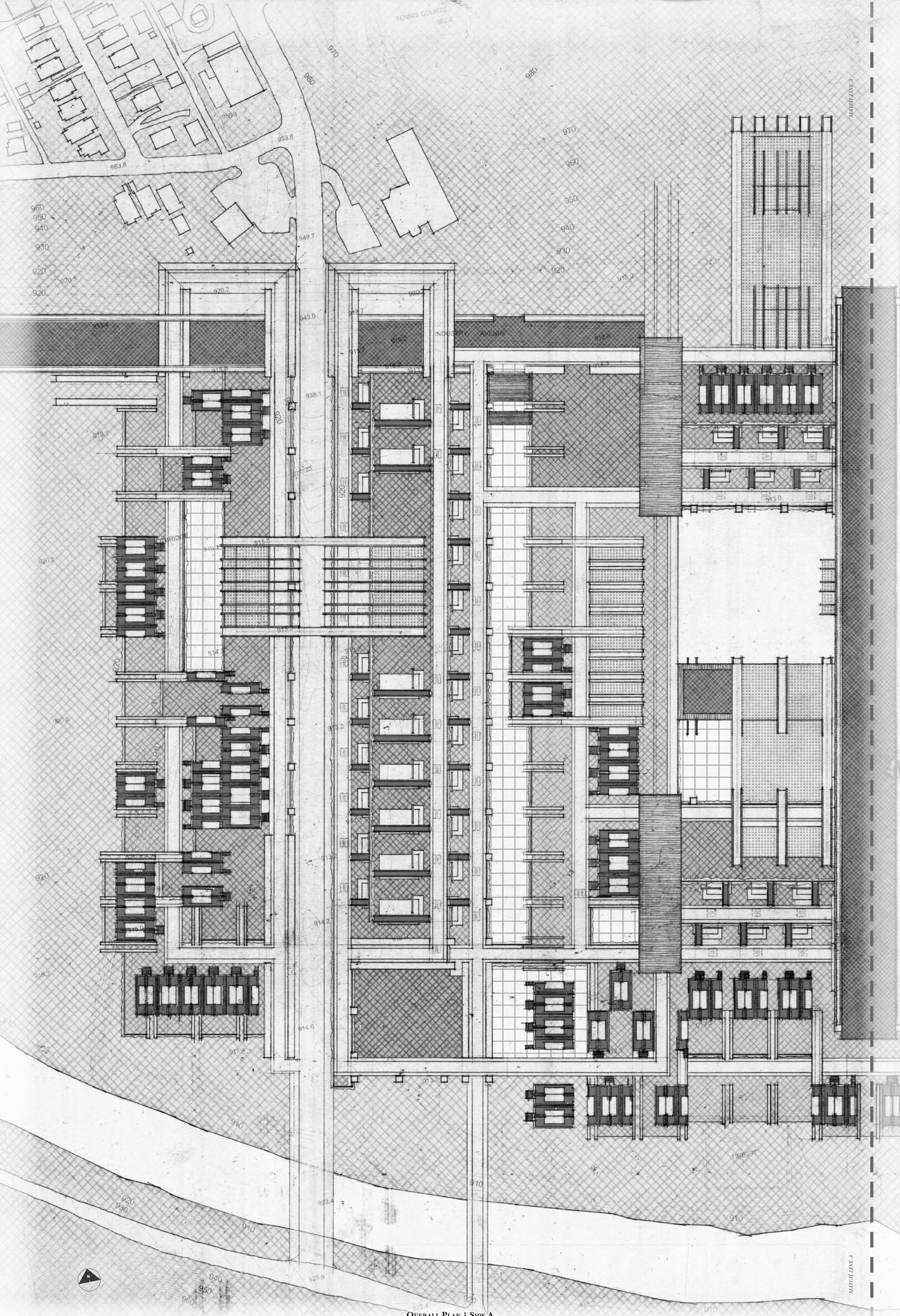




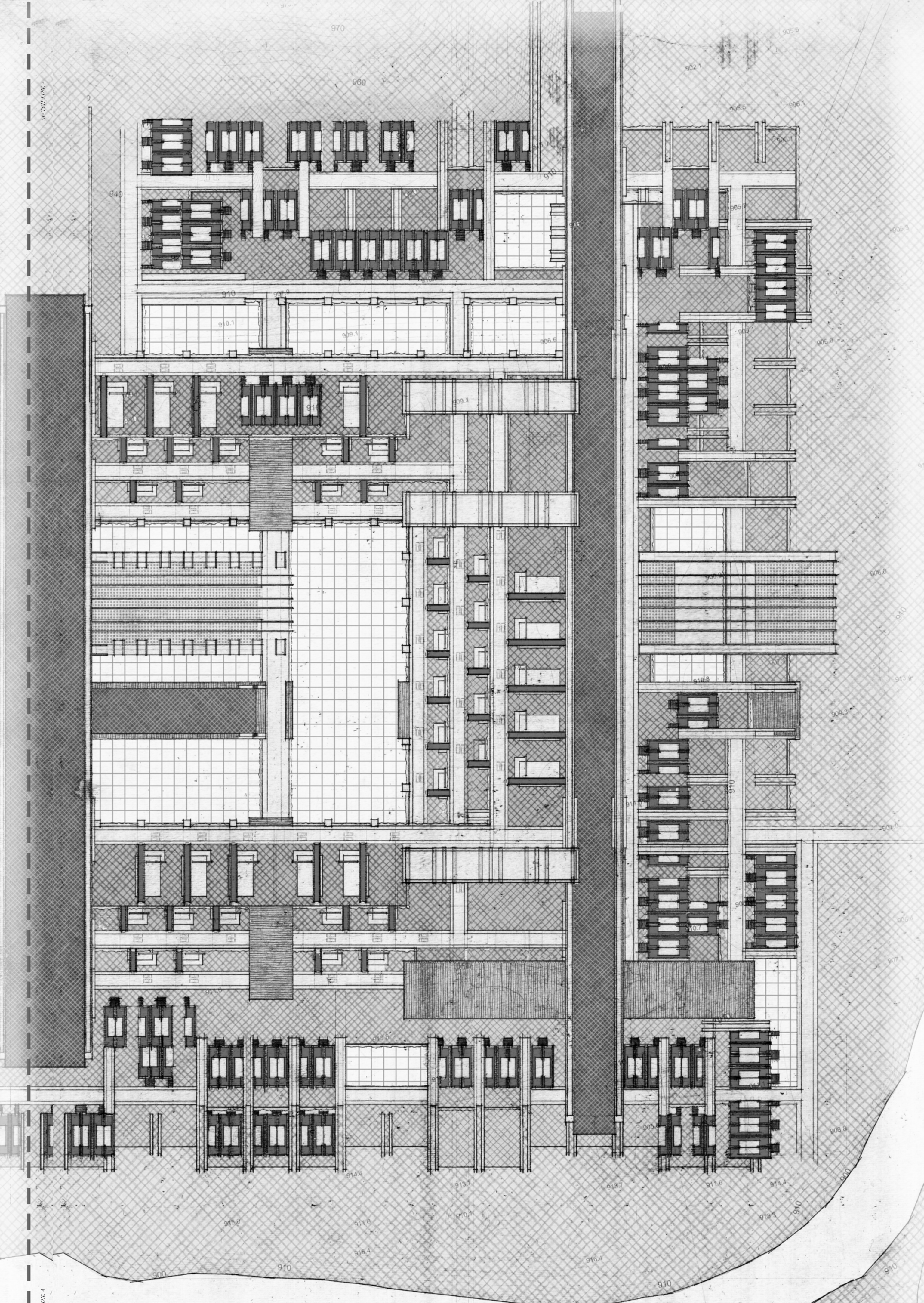




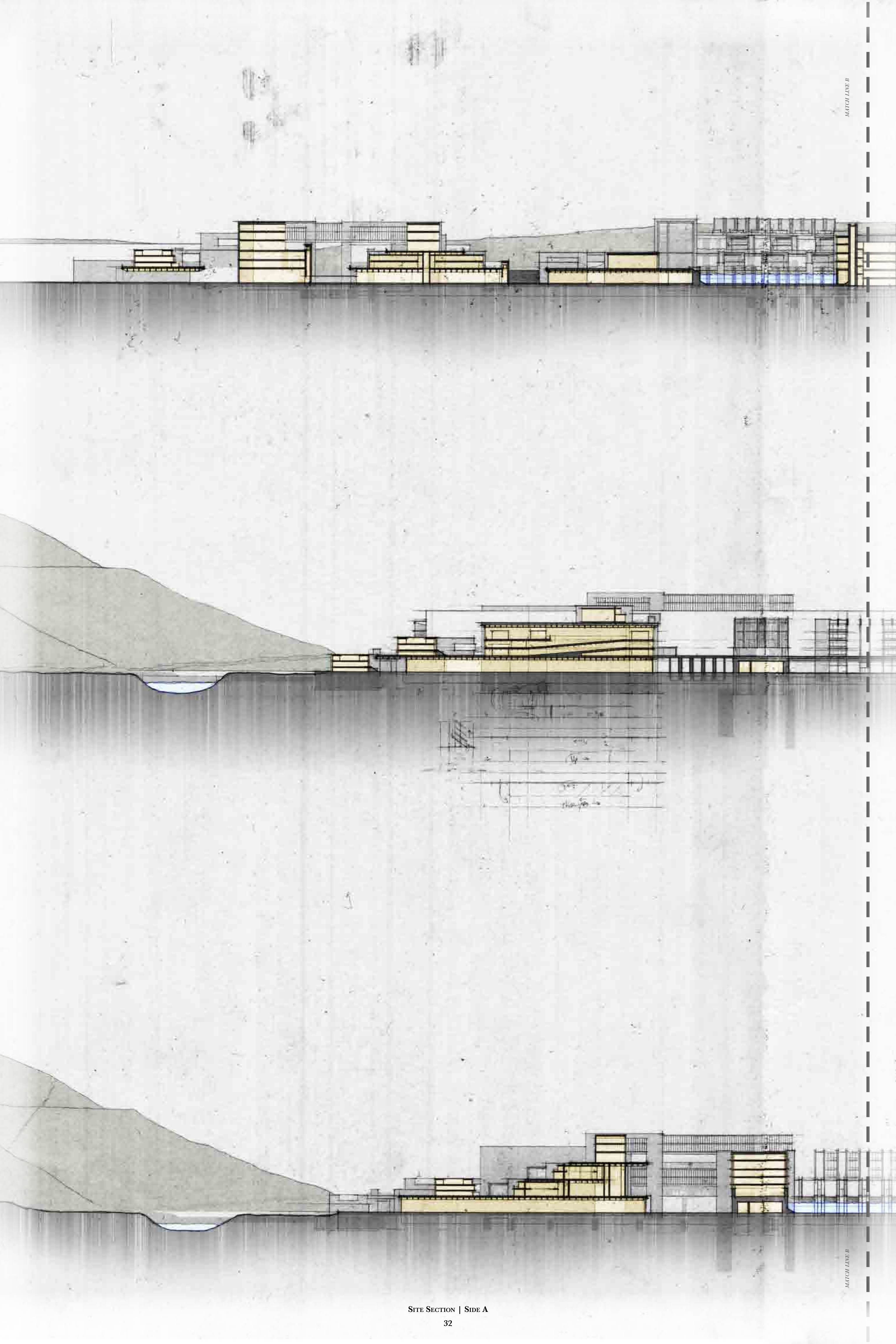












MATCH LINE B

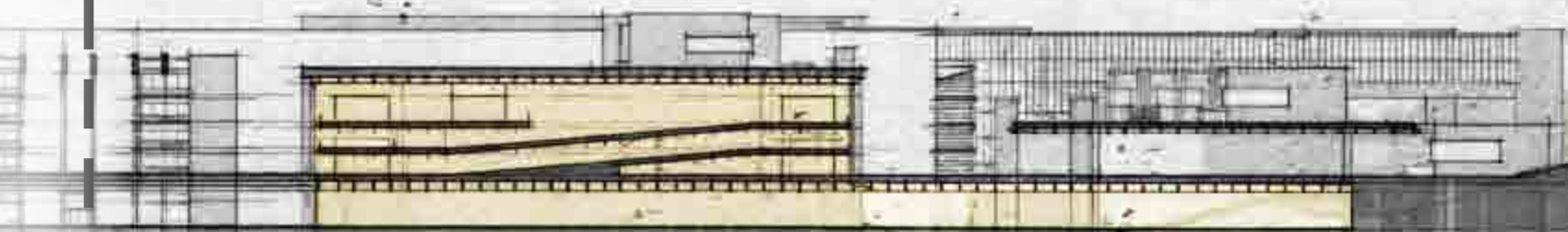
MATCH LINE B



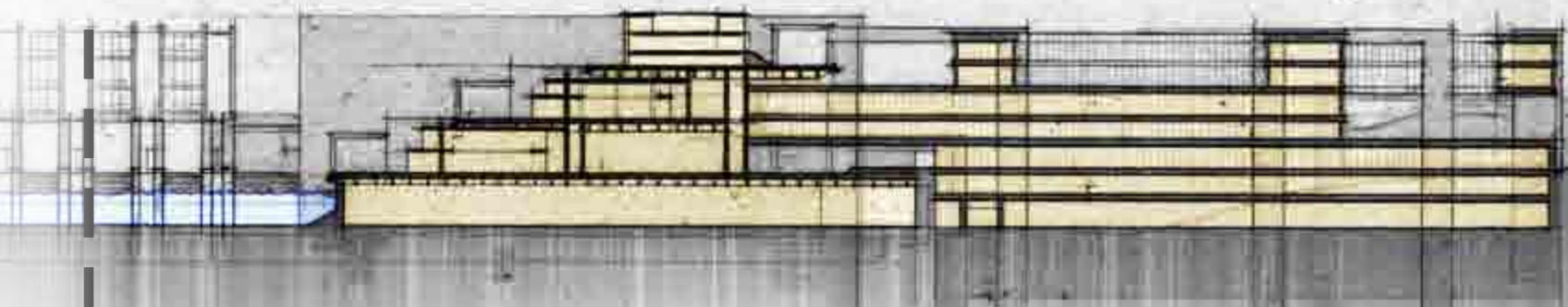
MATCH LINE B



A

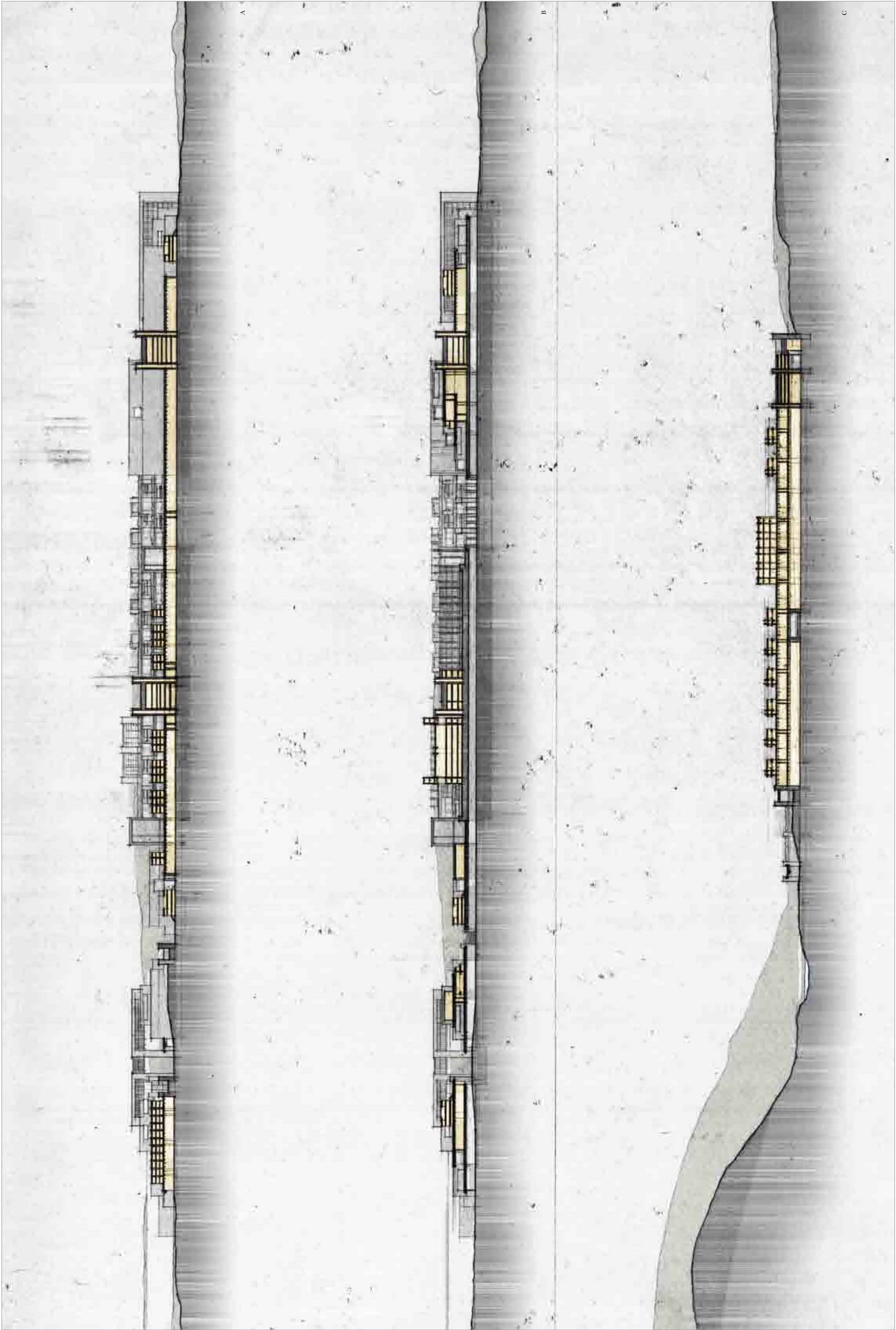


B



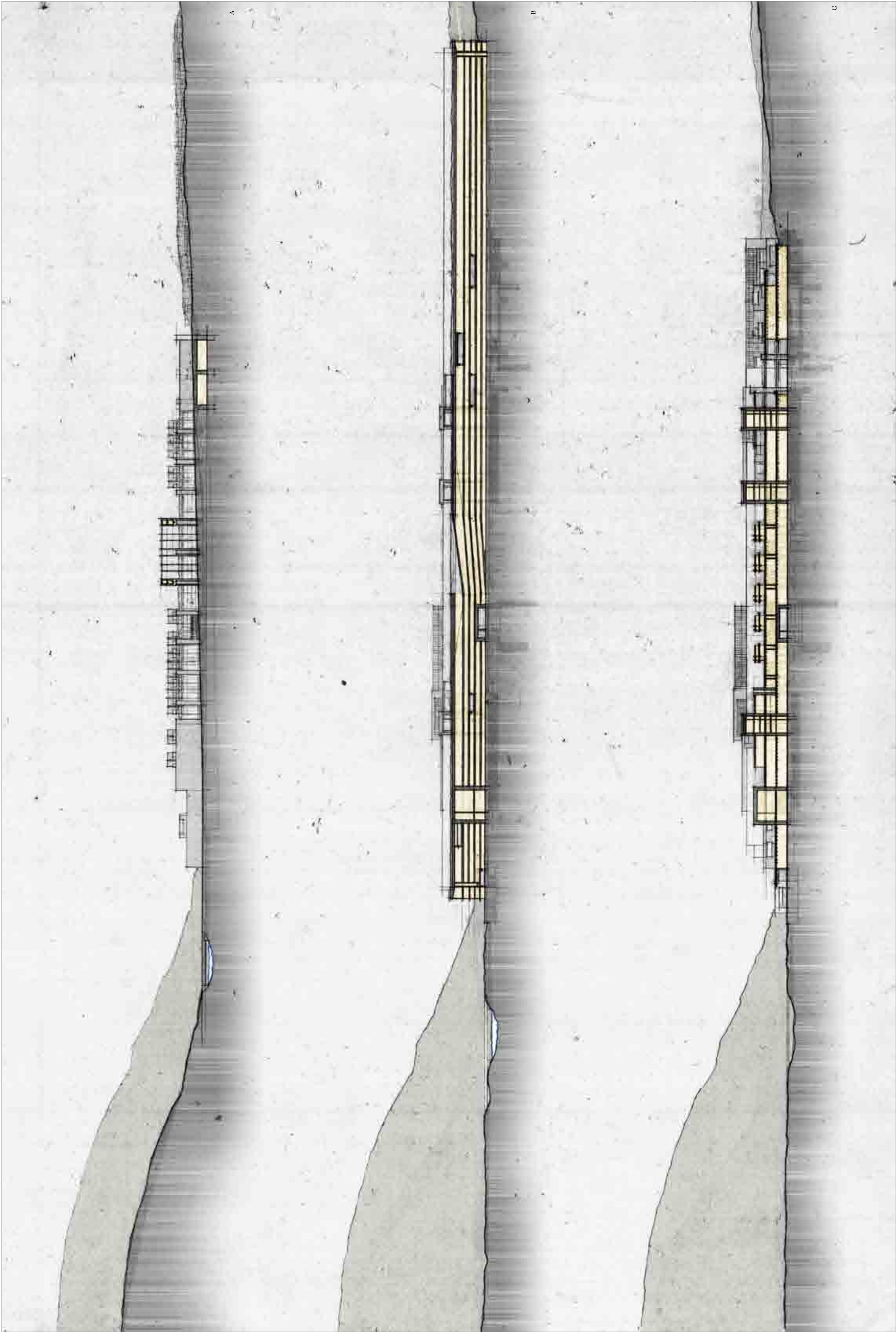
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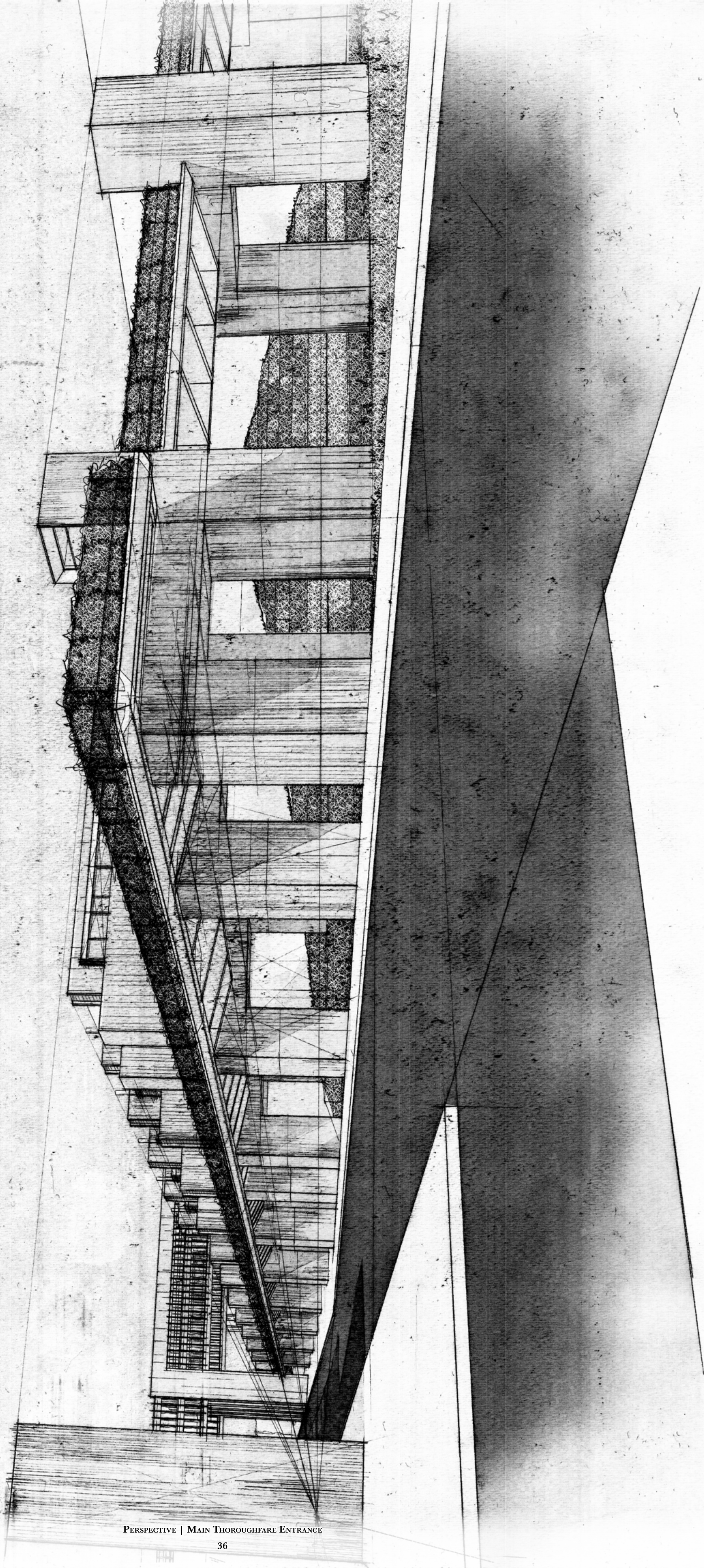
34A | SITE SECTION  
34B | SITE SECTION  
34C | SITE SECTION



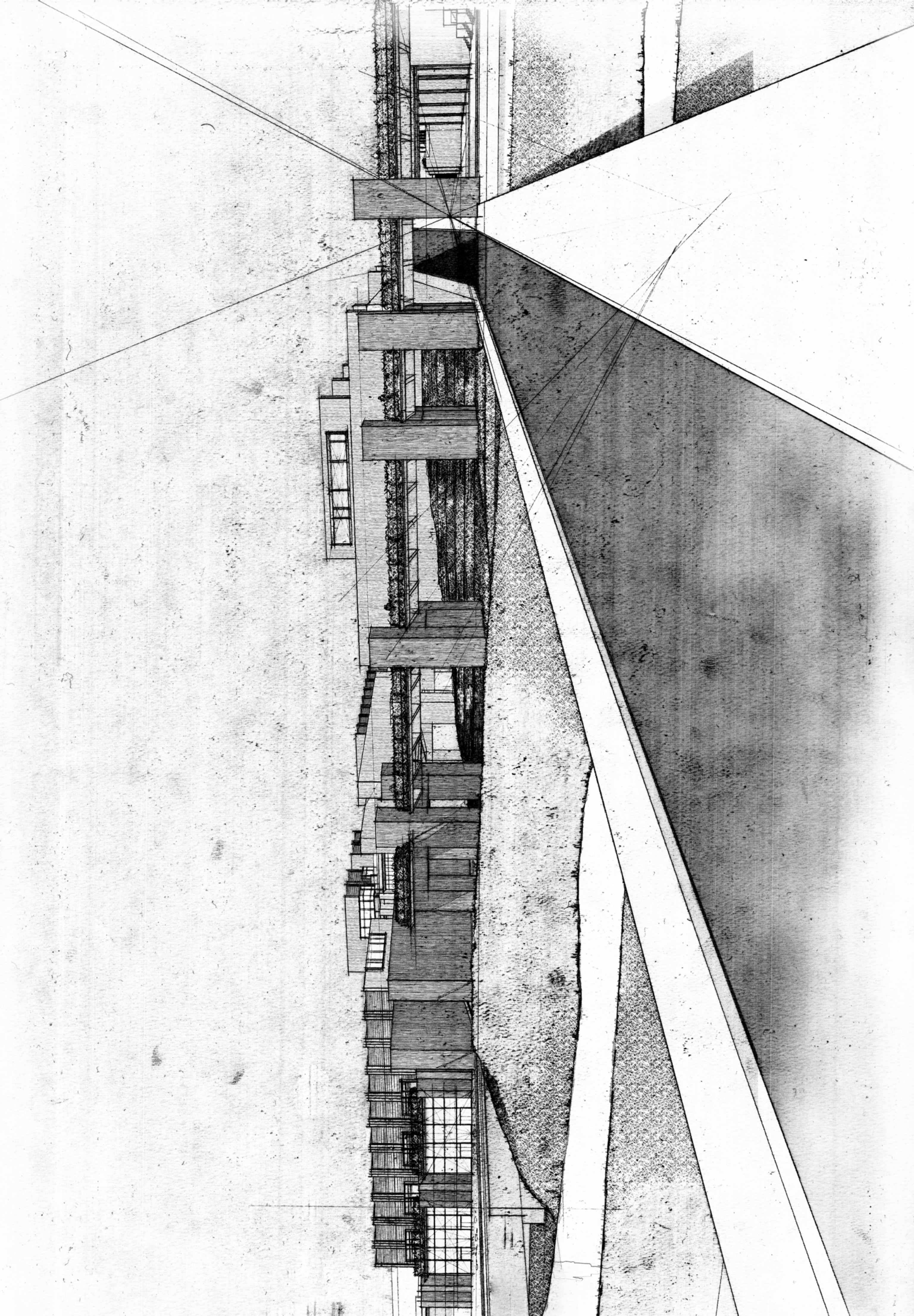


35A | SITE SECTION  
35B | SITE SECTION  
35C | SITE SECTION



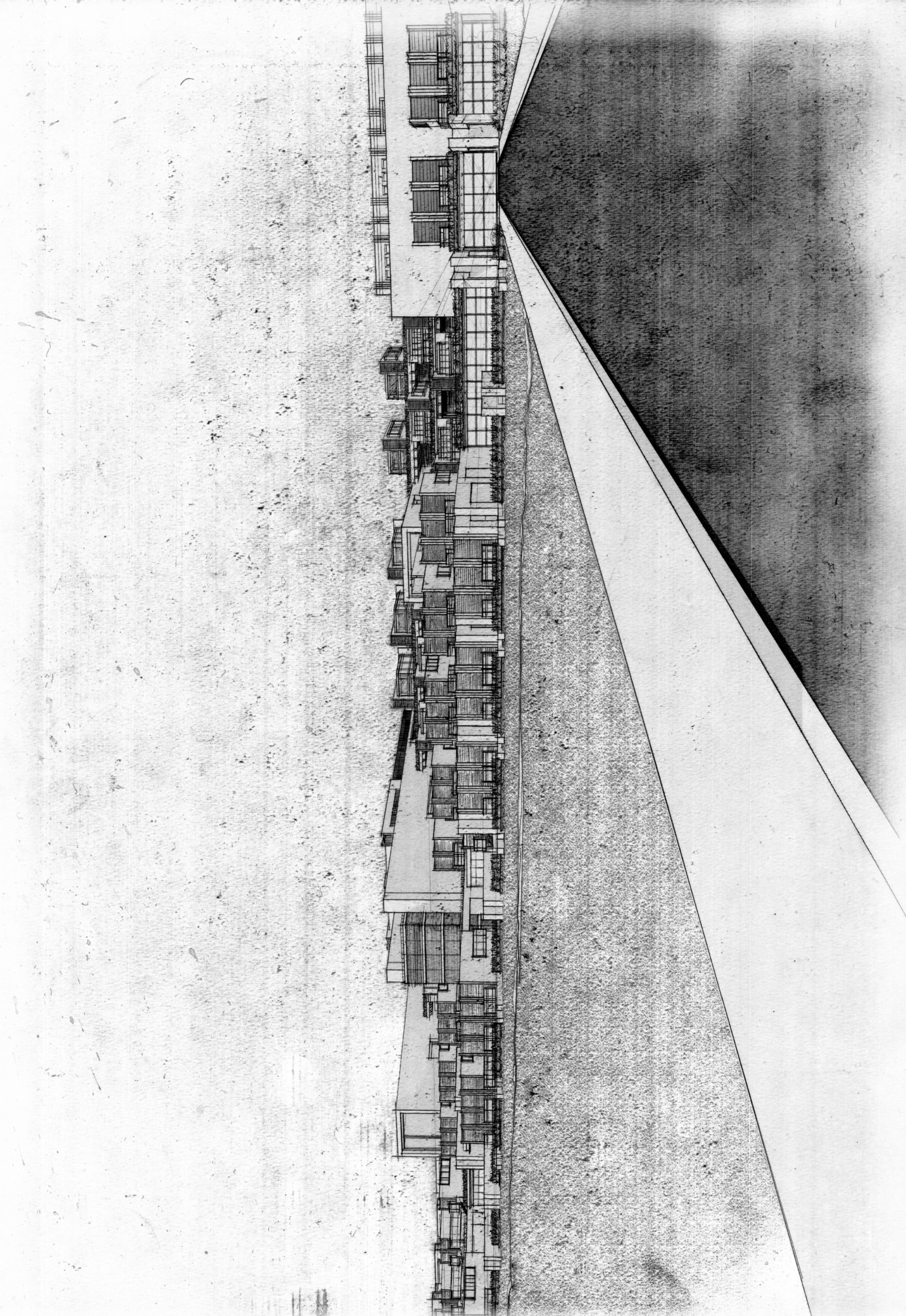






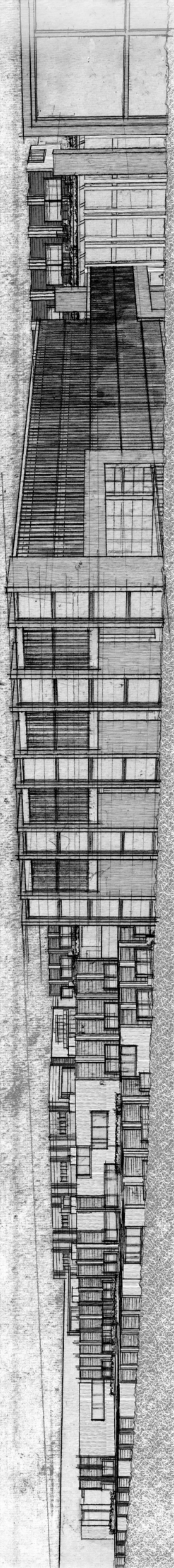
PERSPECTIVE | SOUTHERN VIEW FROM ACROSS THE RIVER



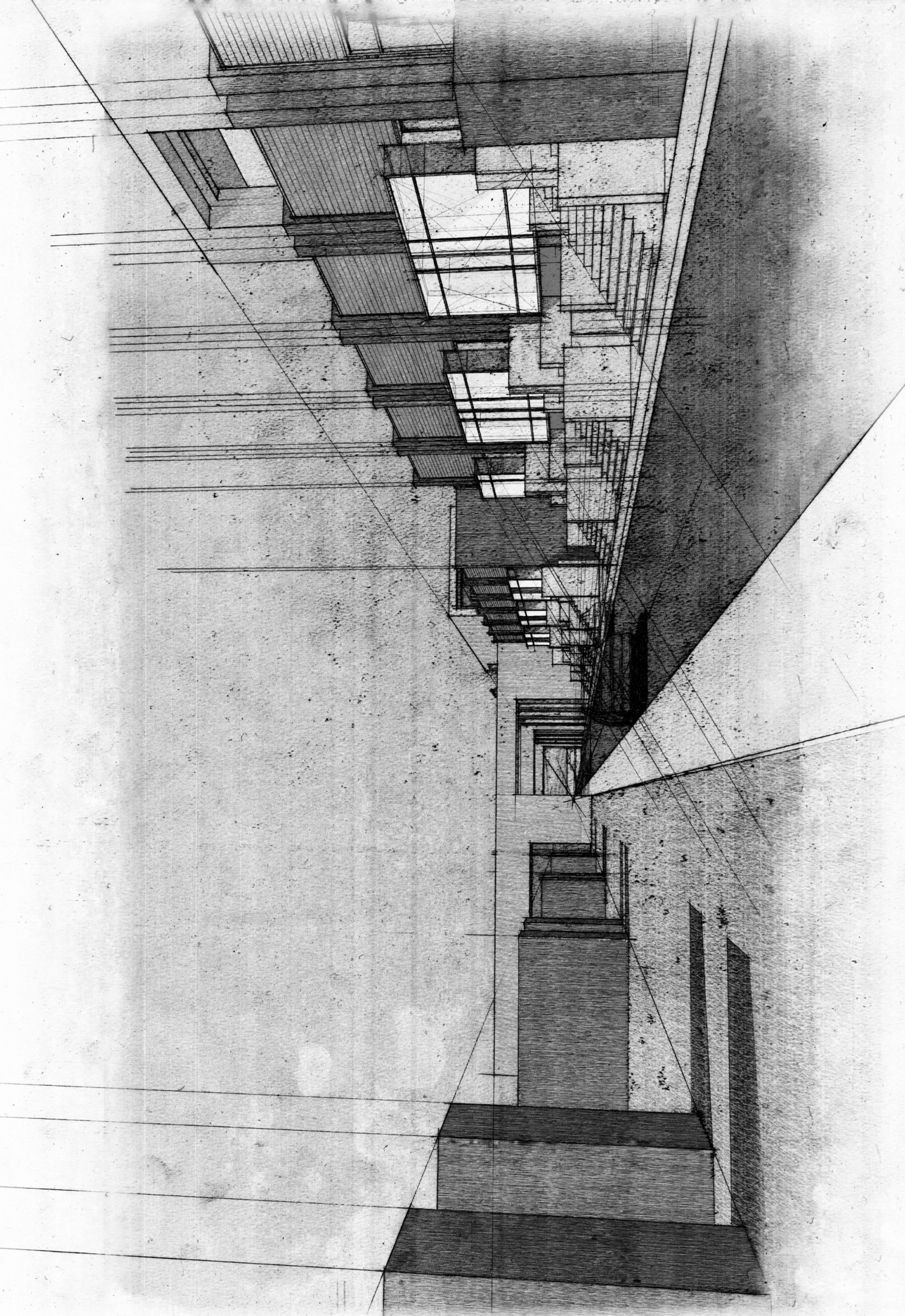


PERSPECTIVE | SOUTHERN VIEW FROM ACROSS THE RIVER

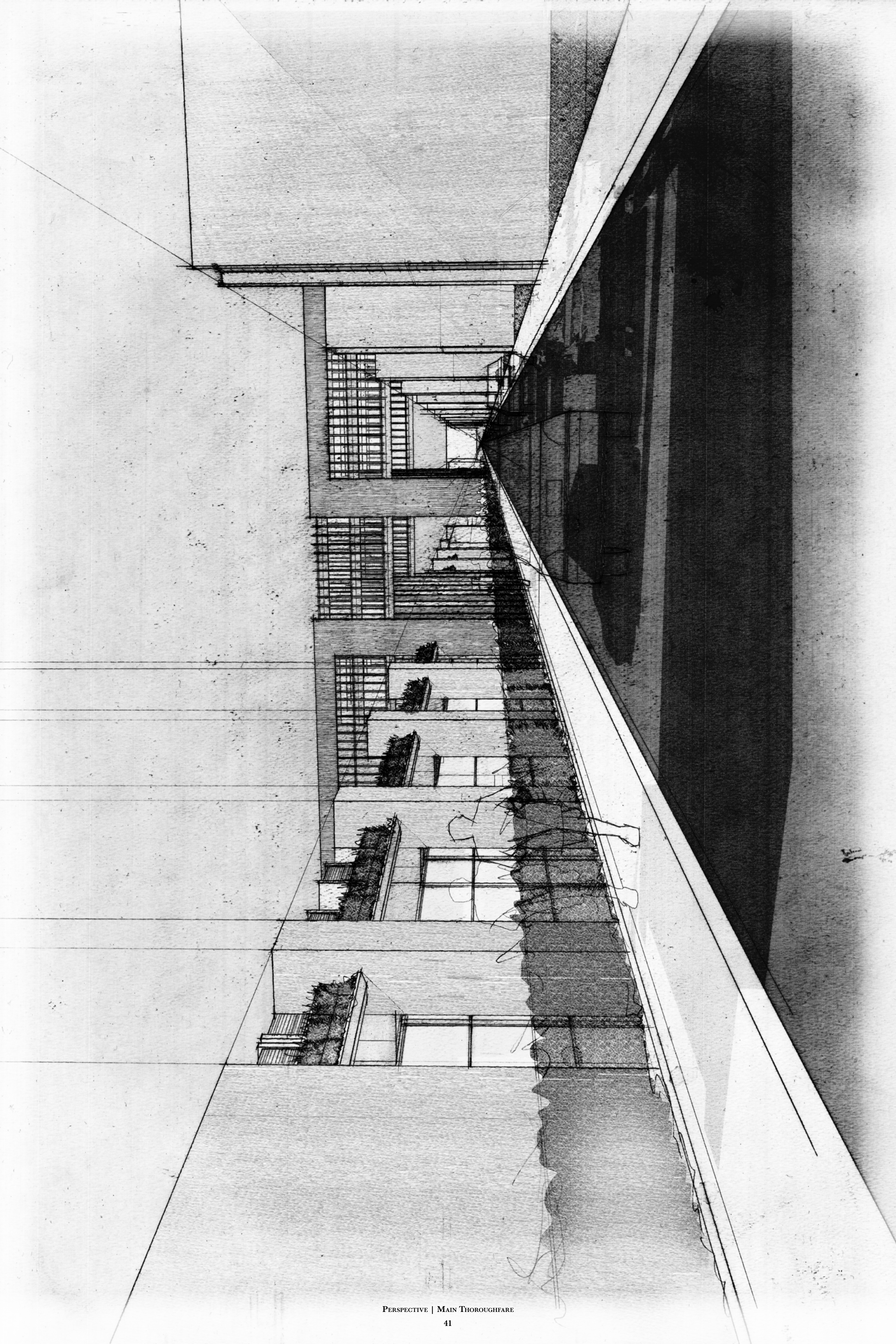




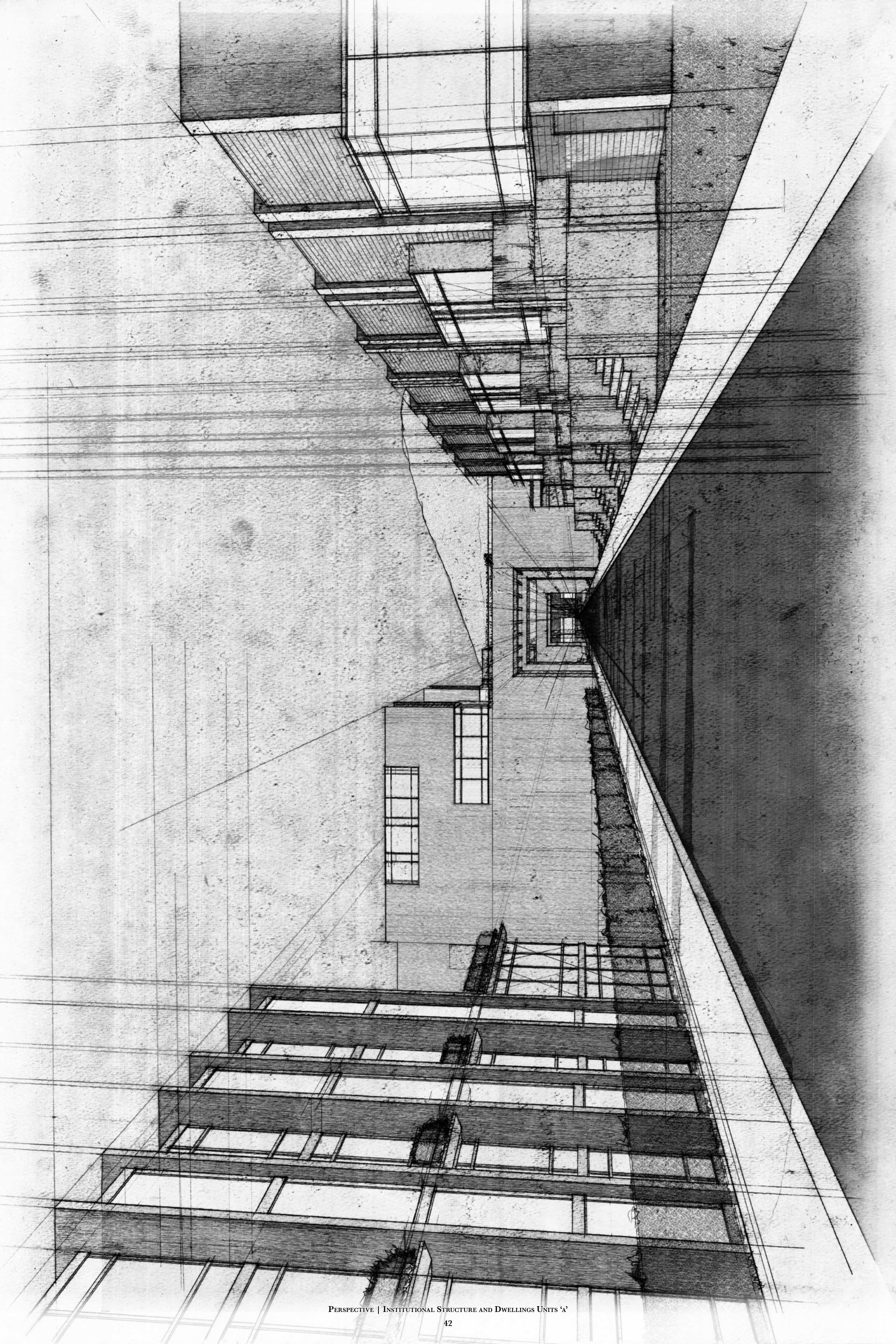




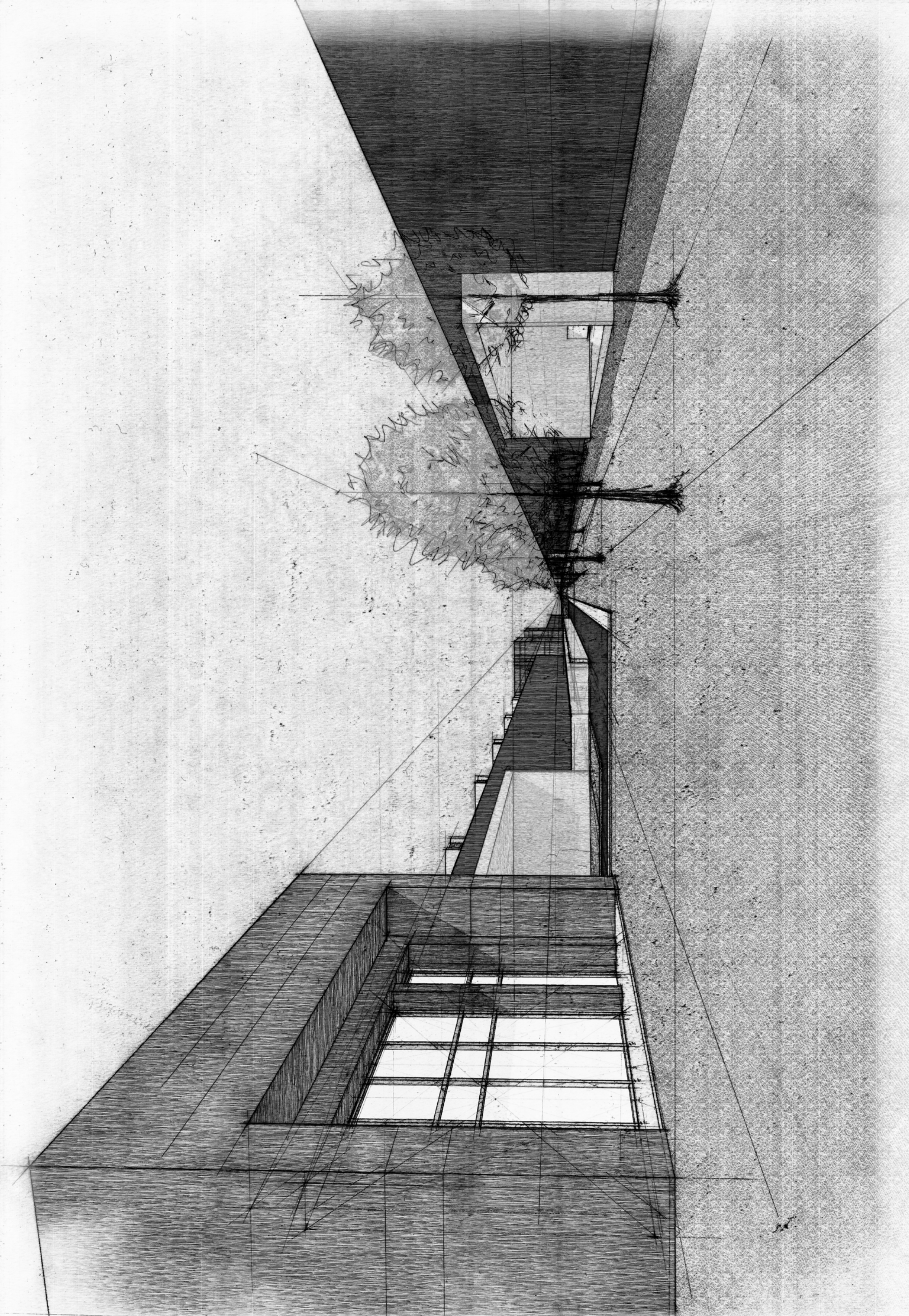




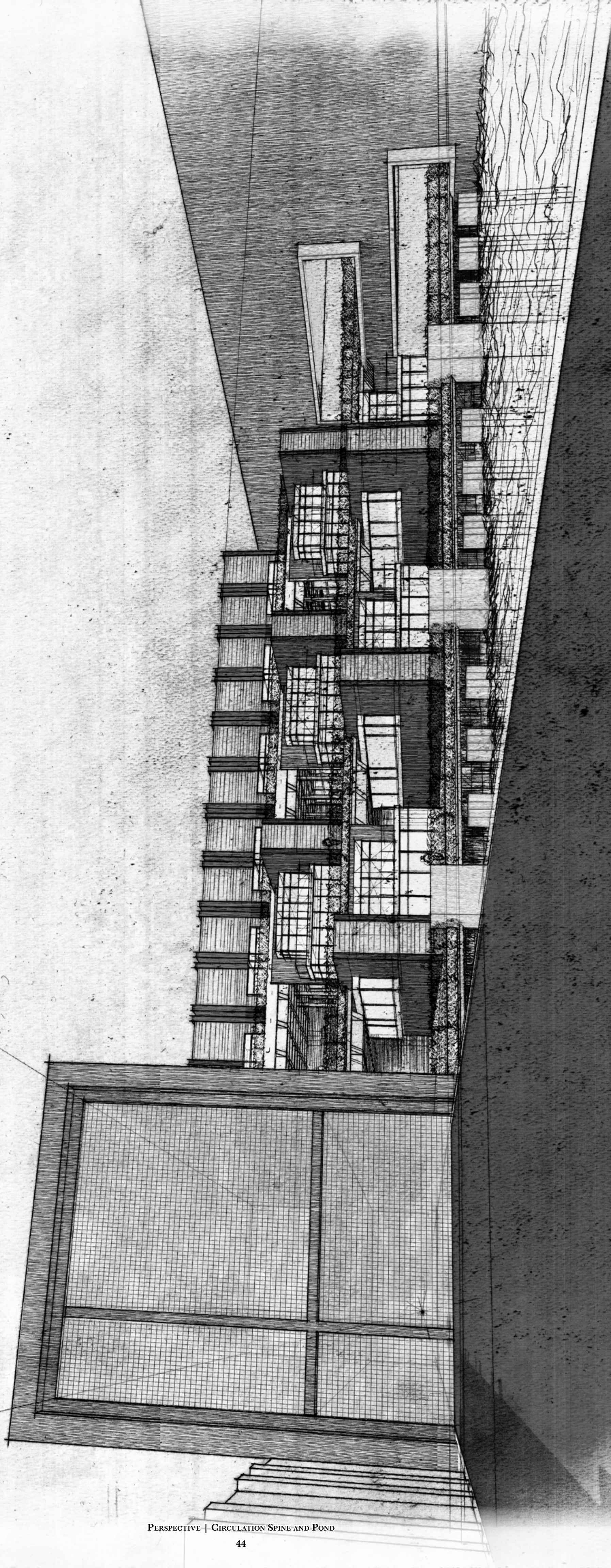




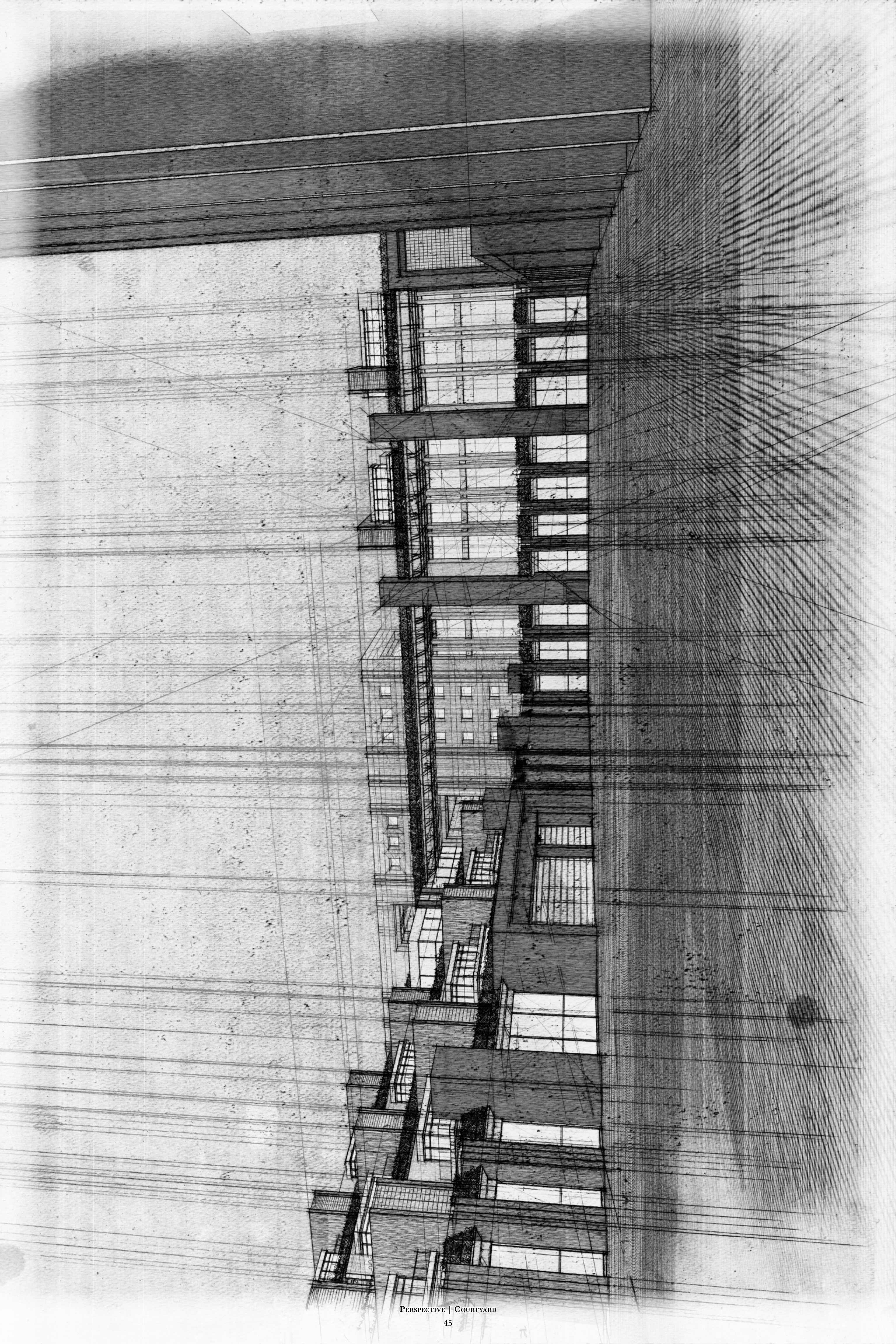




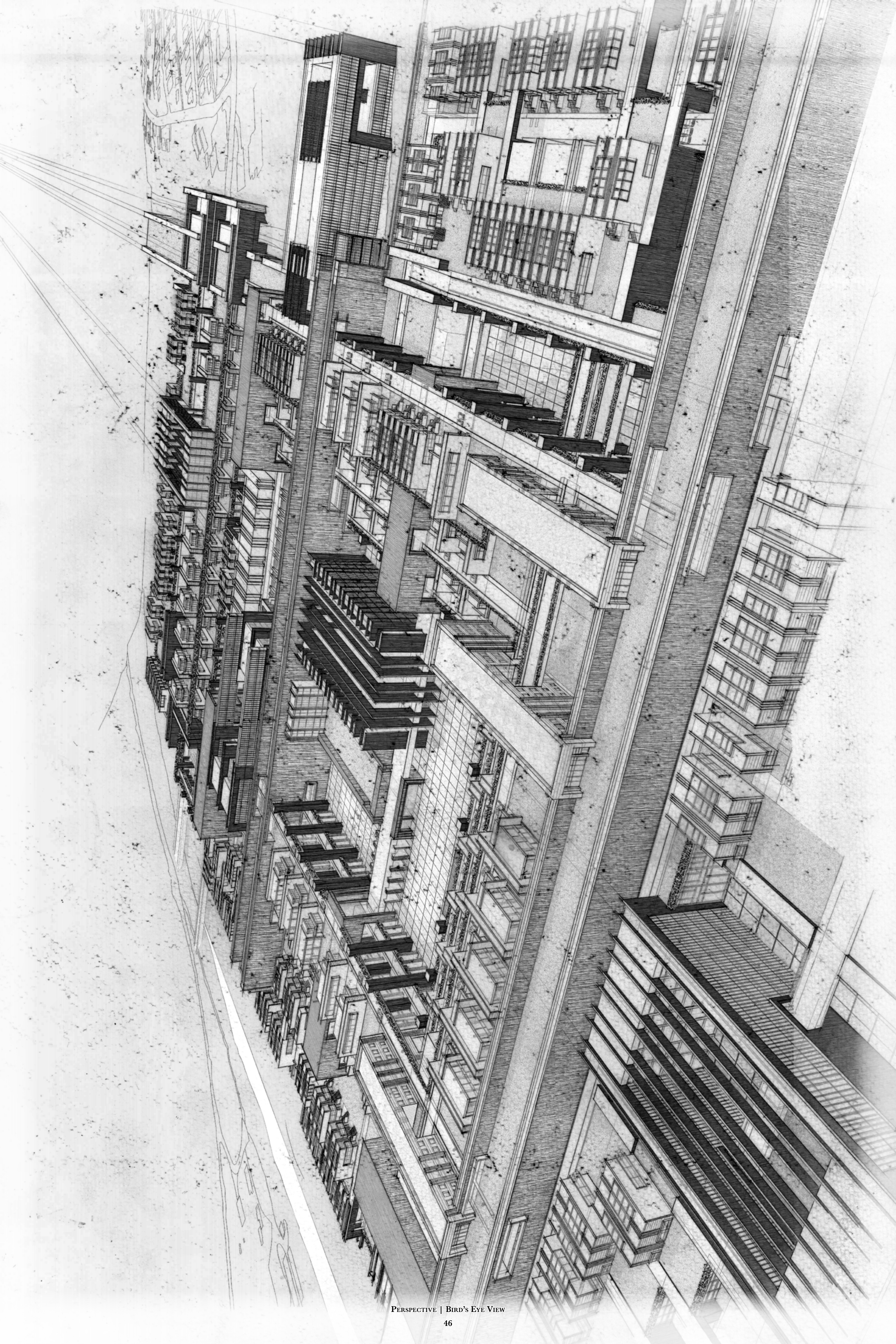




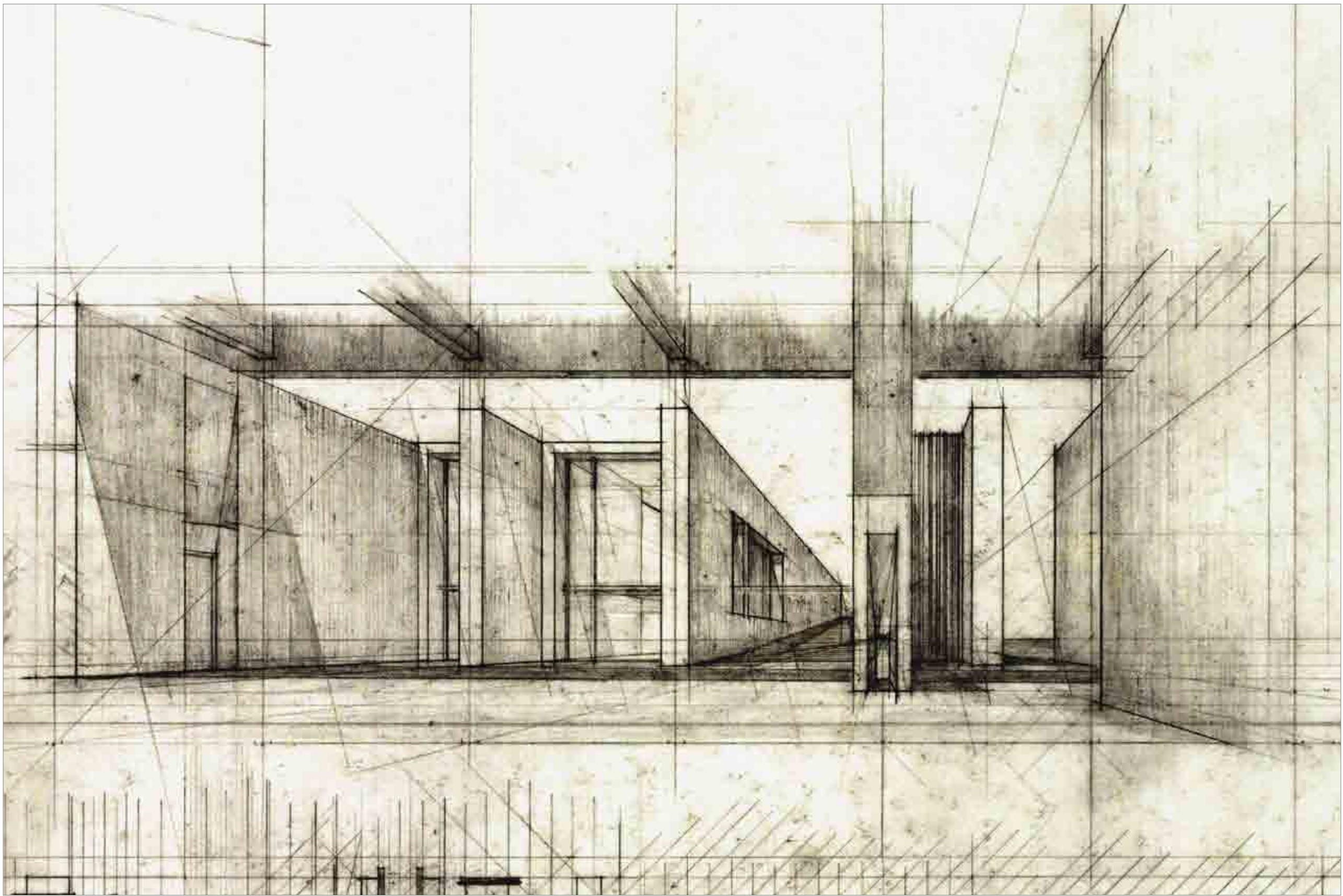














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Stitch: Gergely Vass

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