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KEVIN VAN WEERDENBURG 4442857

07-07-2020

Delft University of Technology Msc. 4 Architecture

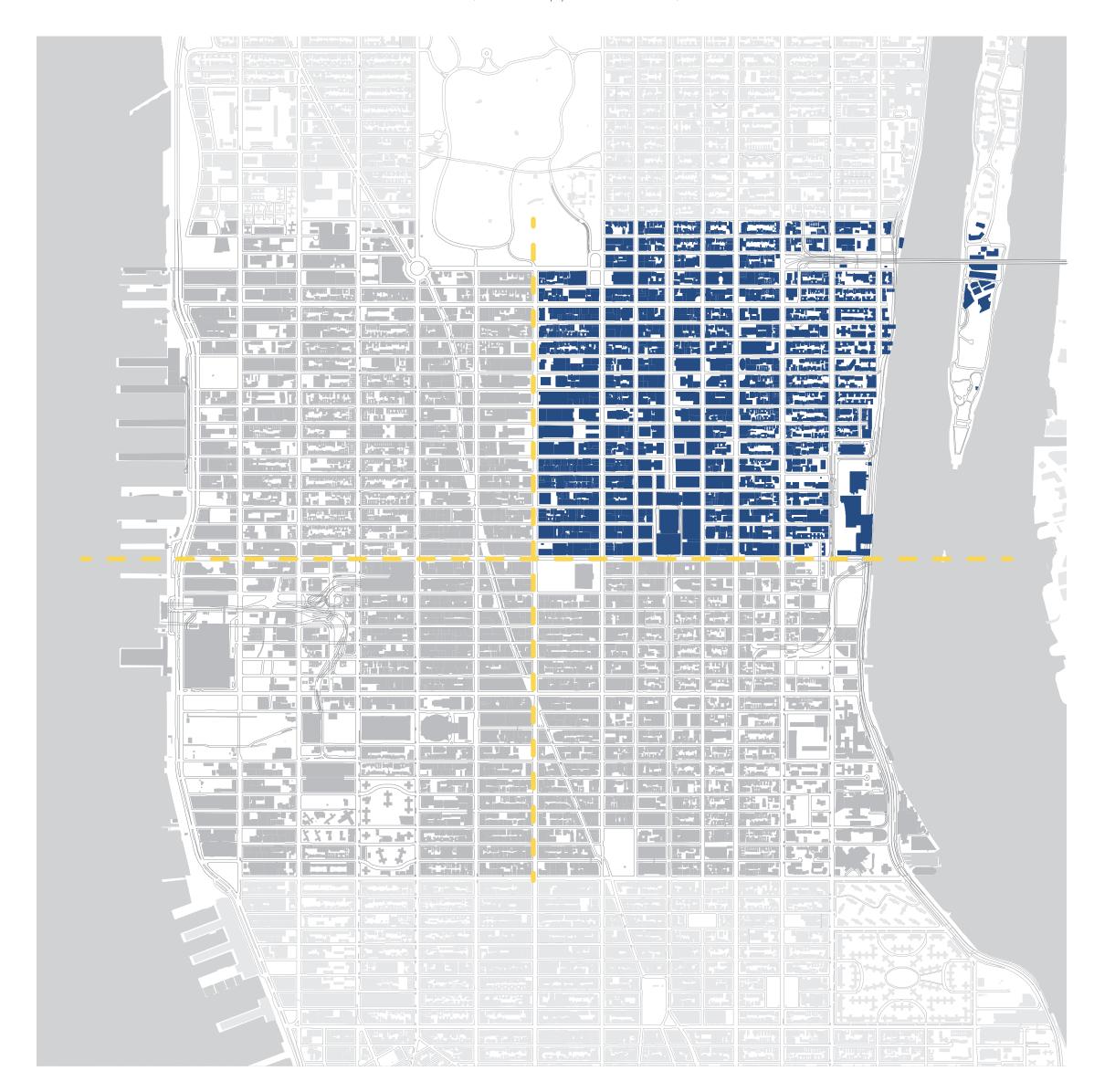
Chair of Complex Projects

AR3CP010 - Complex Projects Graduation Studio: Midtown NY



## PROJECT INTRODUCTION

### (P MIDTOWN STUDIO

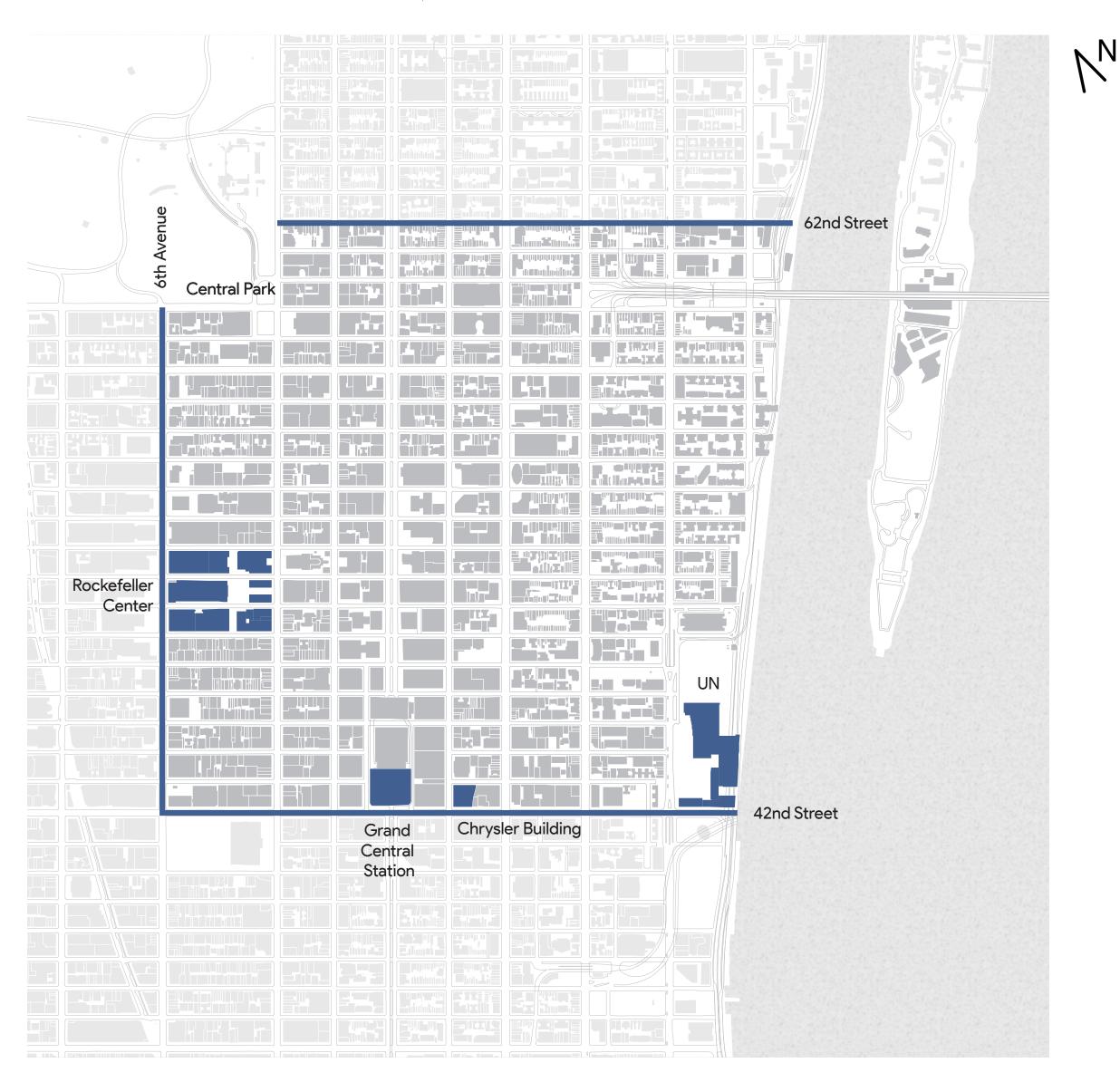


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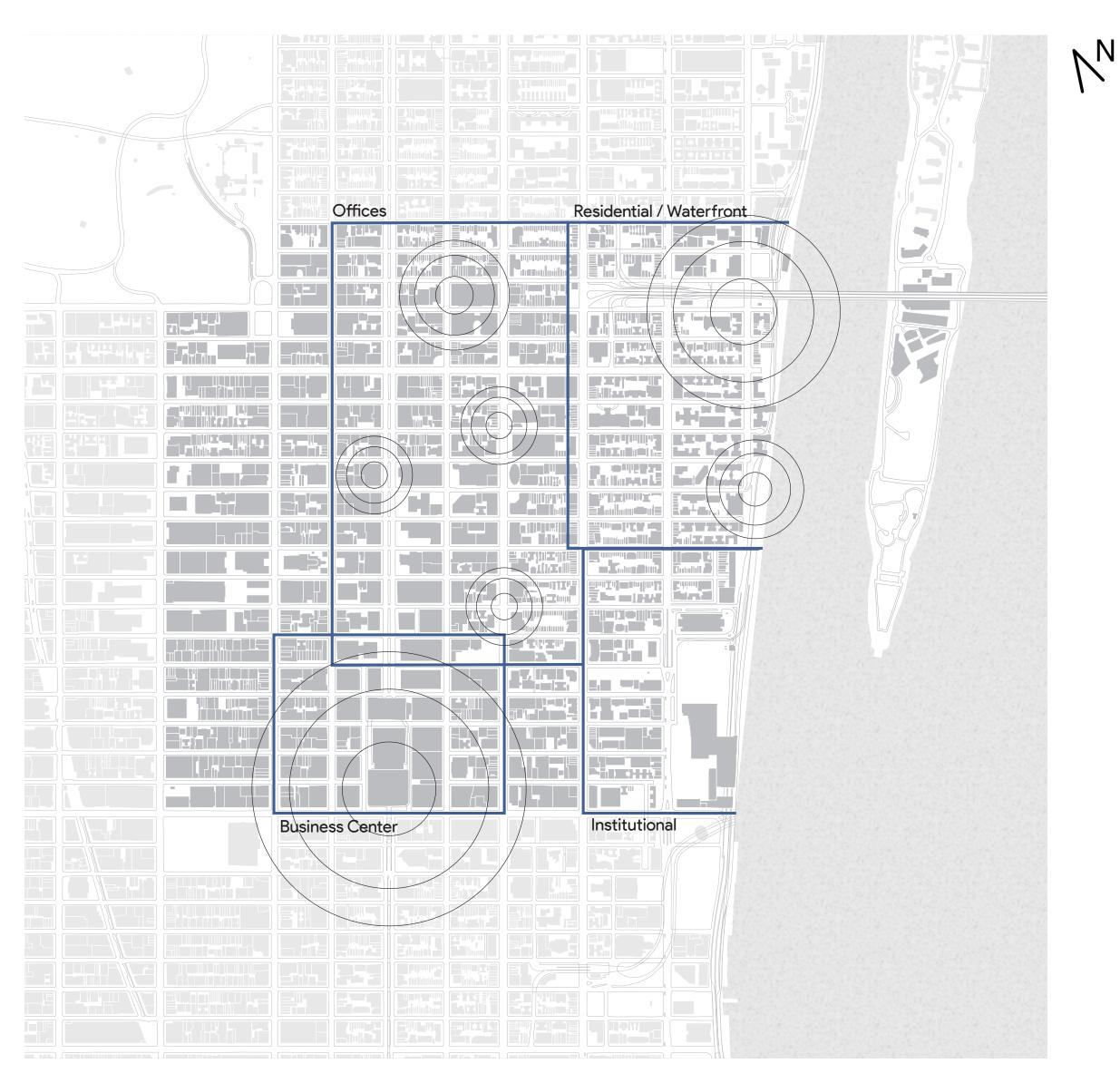


#### THE VALLEY OF CIANTS





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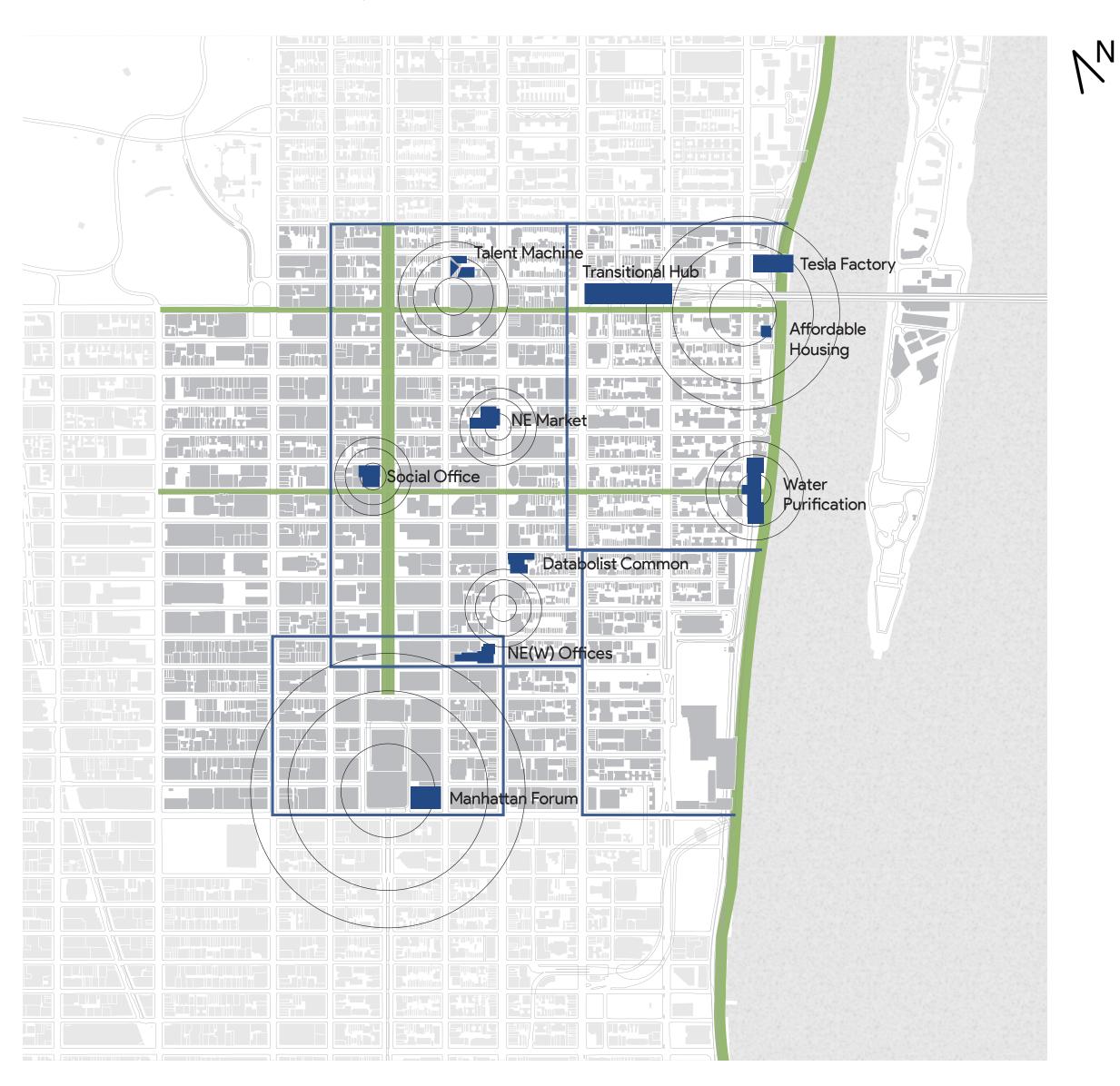


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Research

## THUMGE



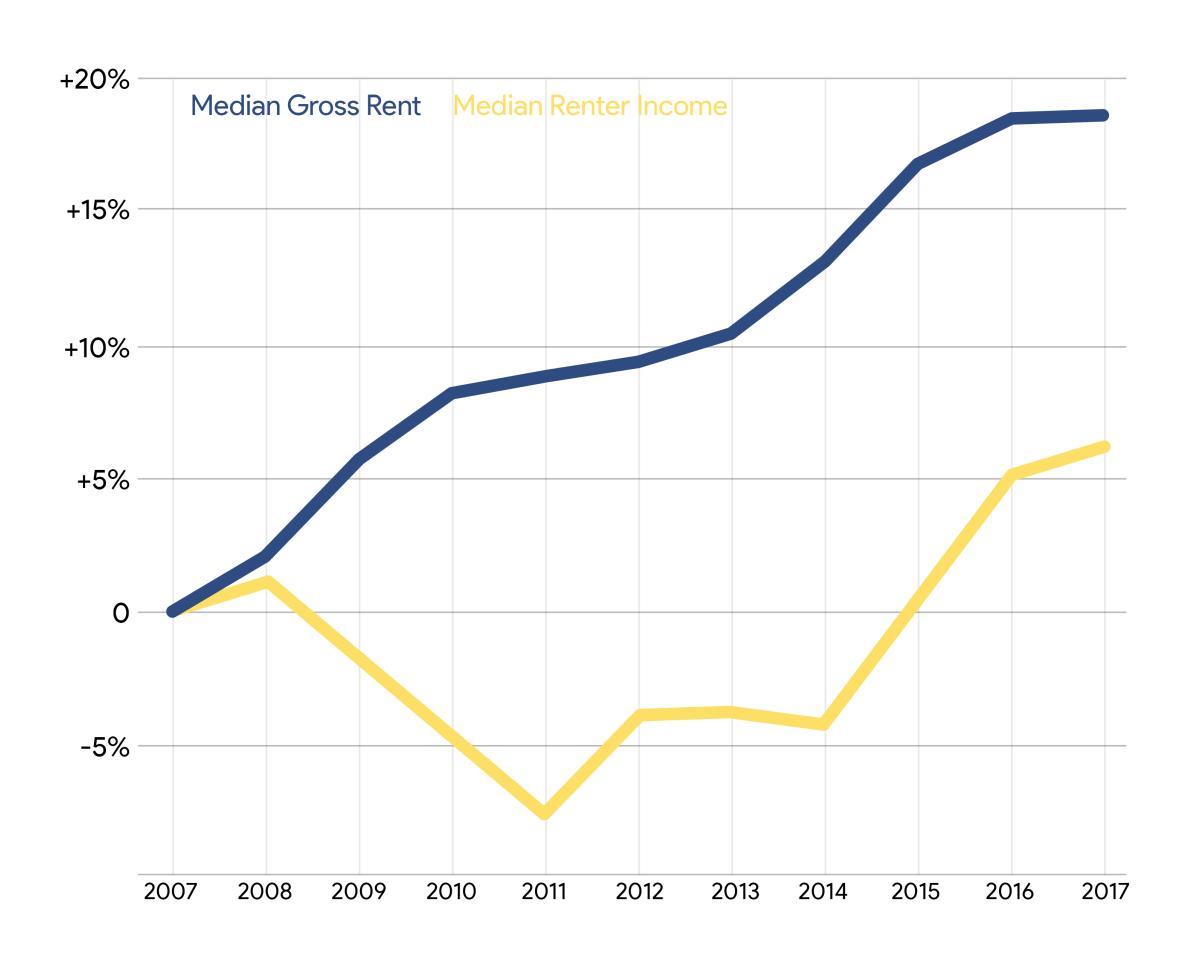
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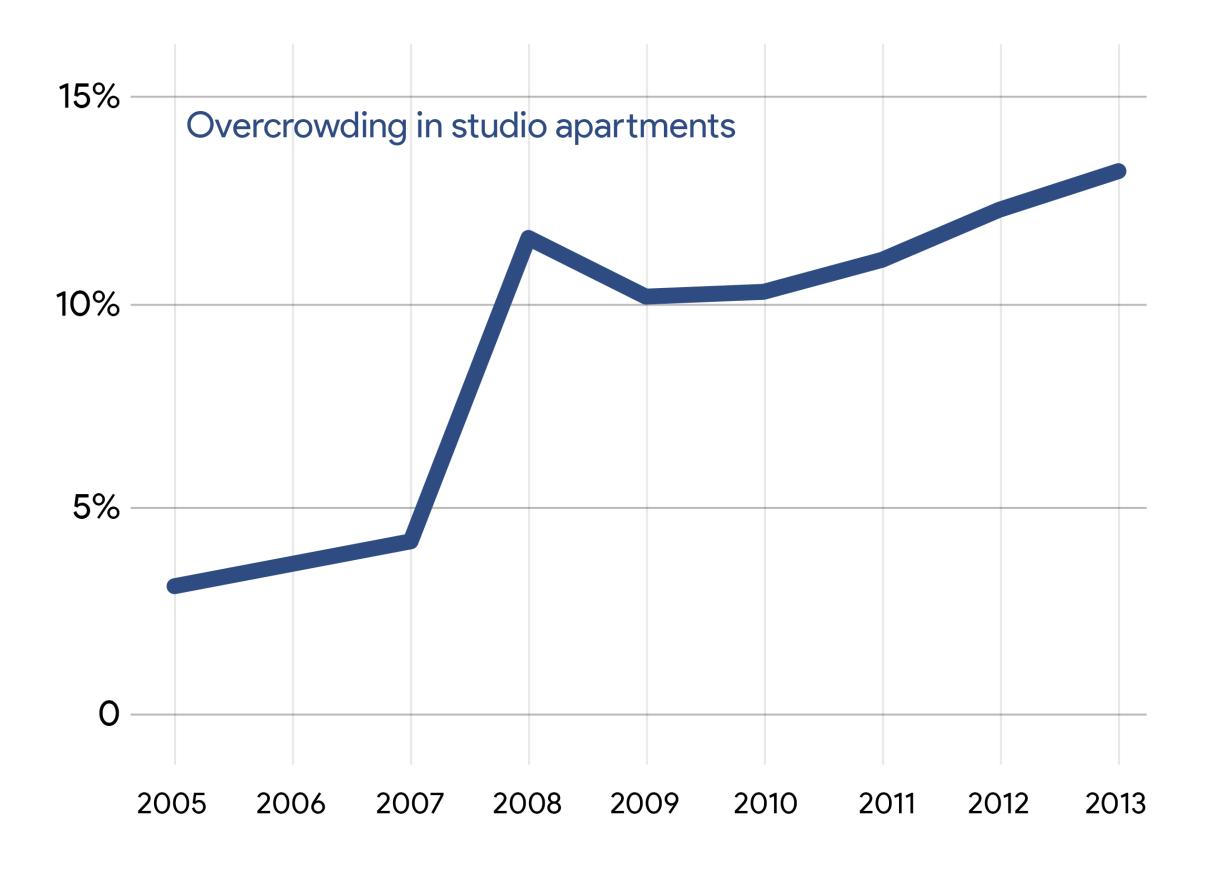


## THUMGE



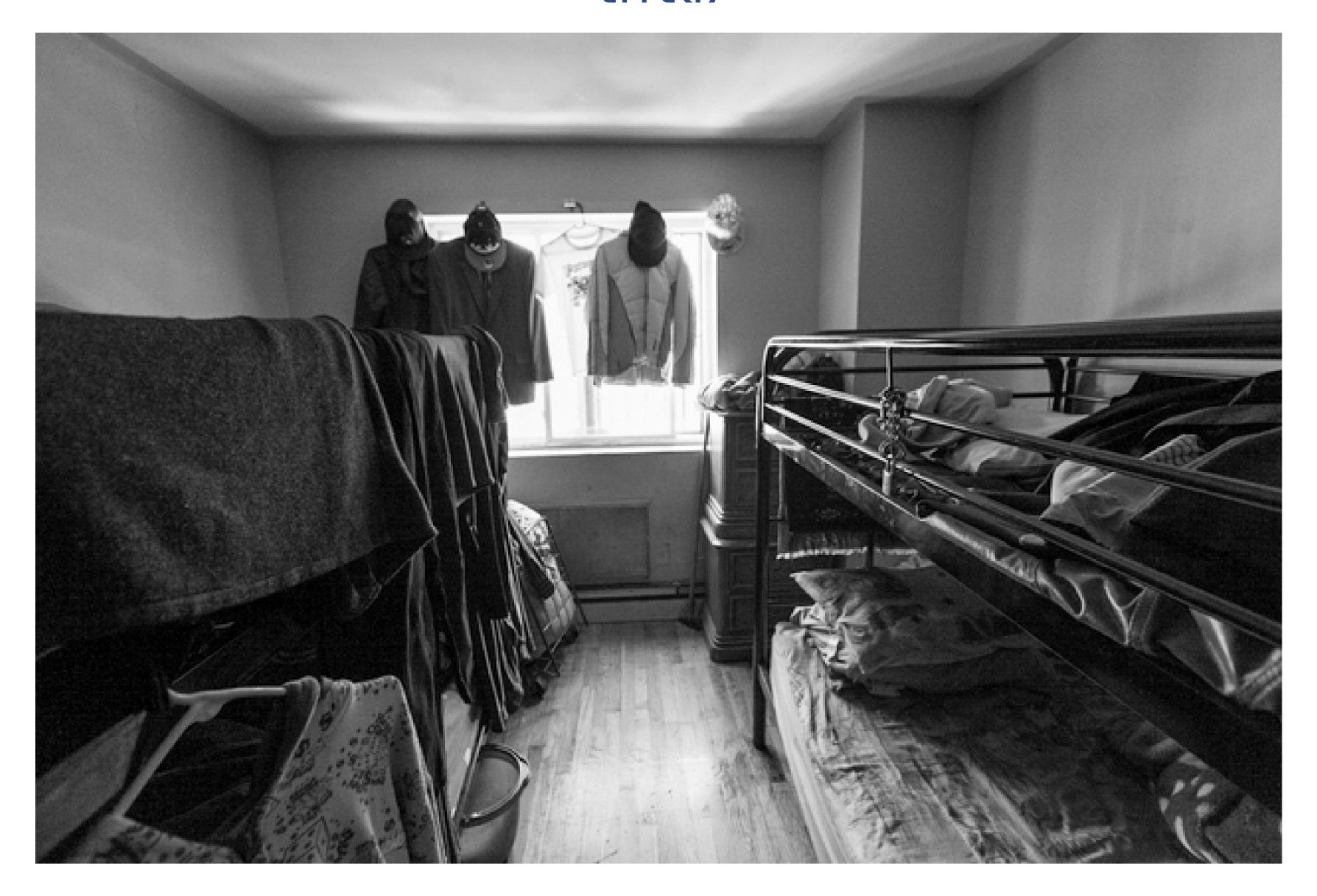
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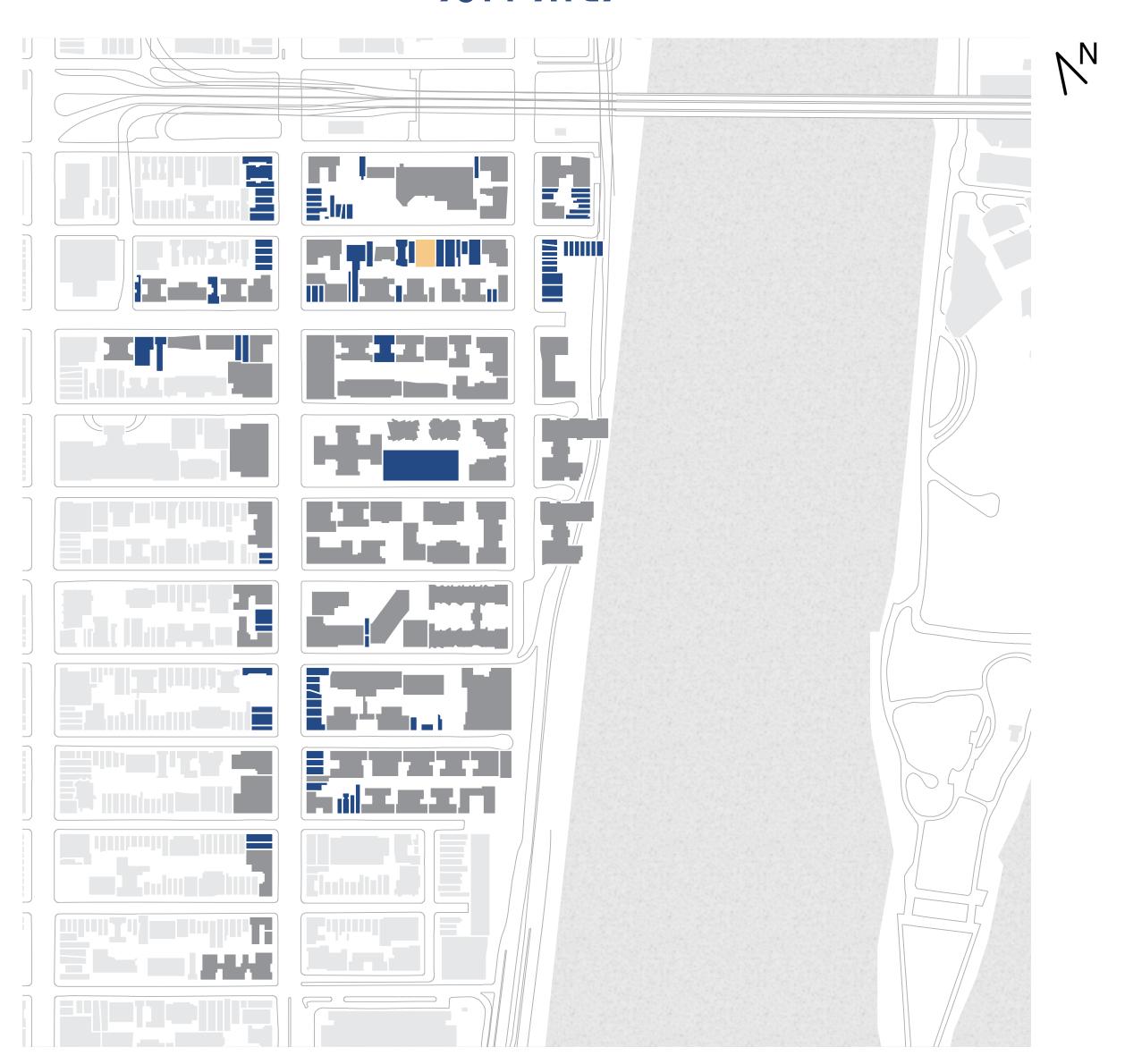
## STANTON 28



## SOLLON 28



#### SOLL SILES



## THE SPARK



#### THE (bub)

What if one of these soft-site developments could actualy help the neighborhood?

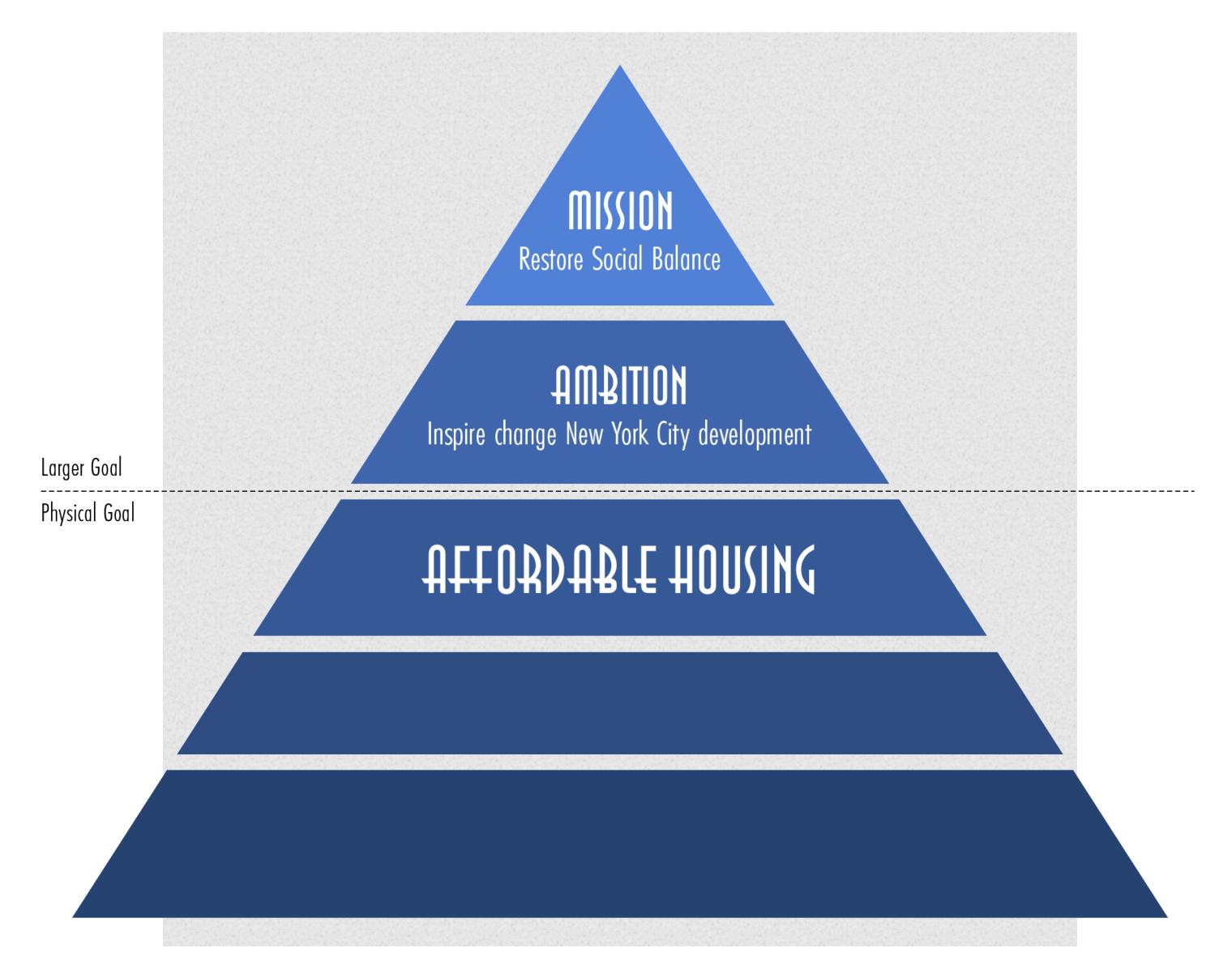
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How can affordable housing be built in Midtown Manhattan?

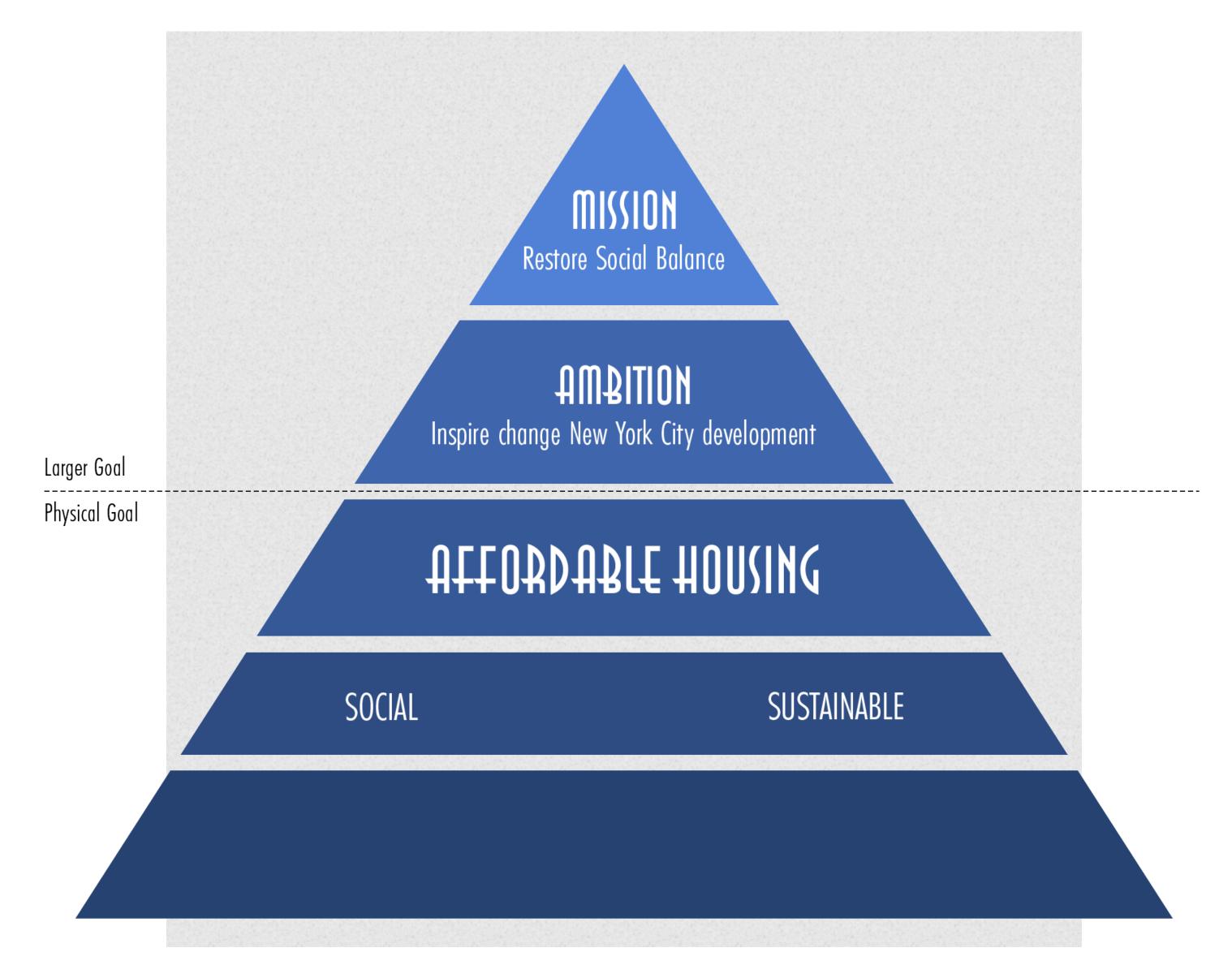
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Project Goals

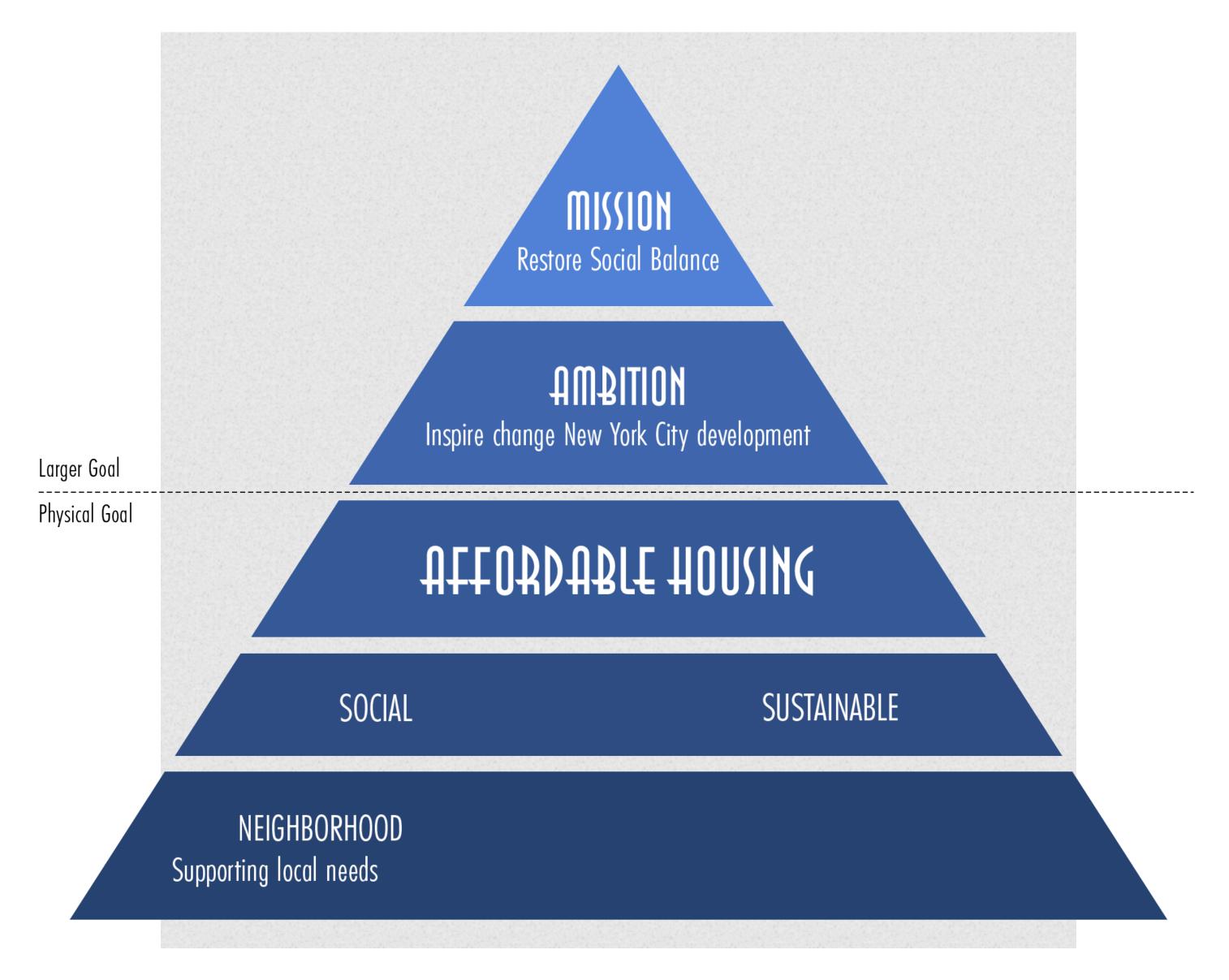
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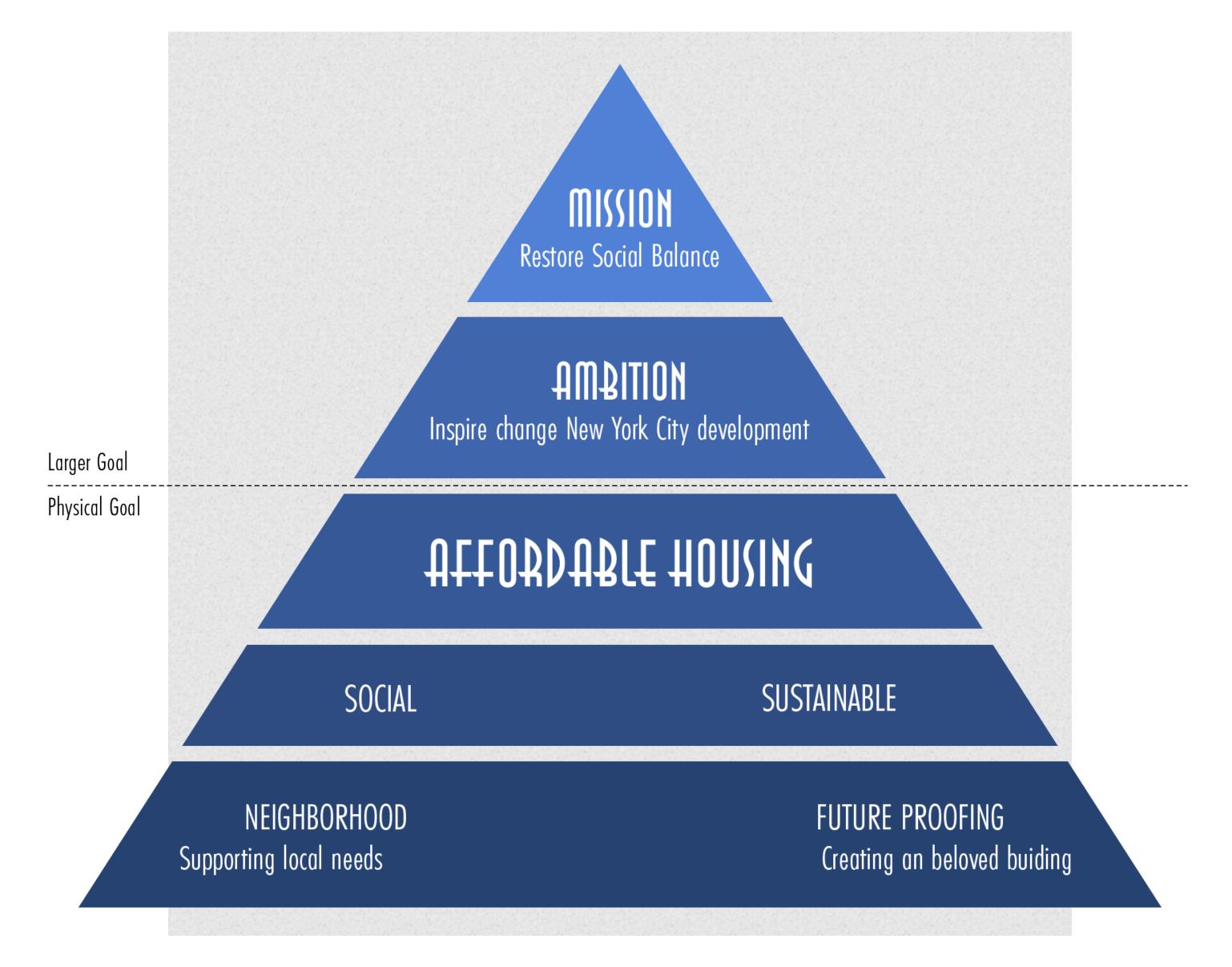
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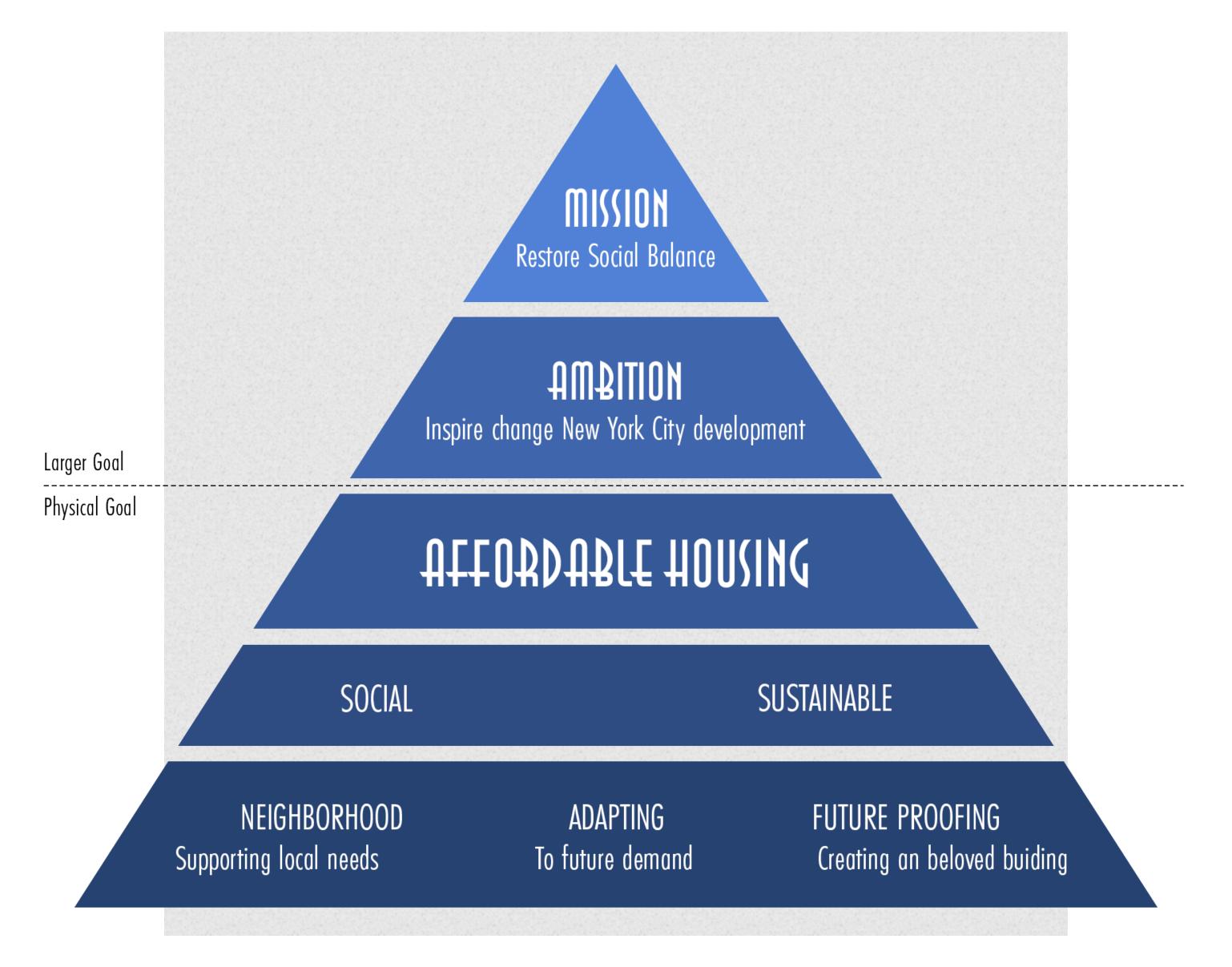
## JJAHNIATU



## JAId/III



## 1H(blaf



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The Concept

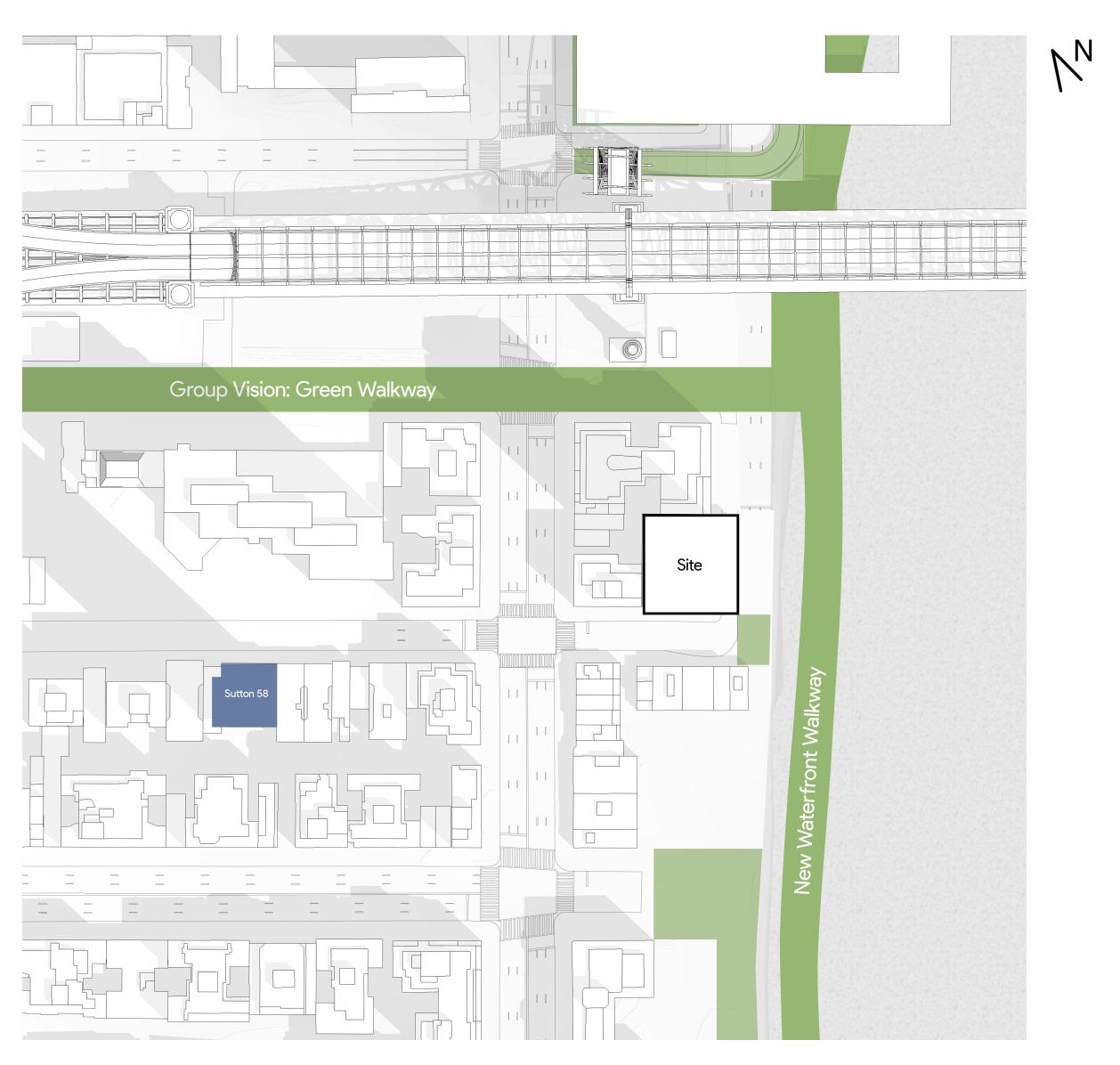
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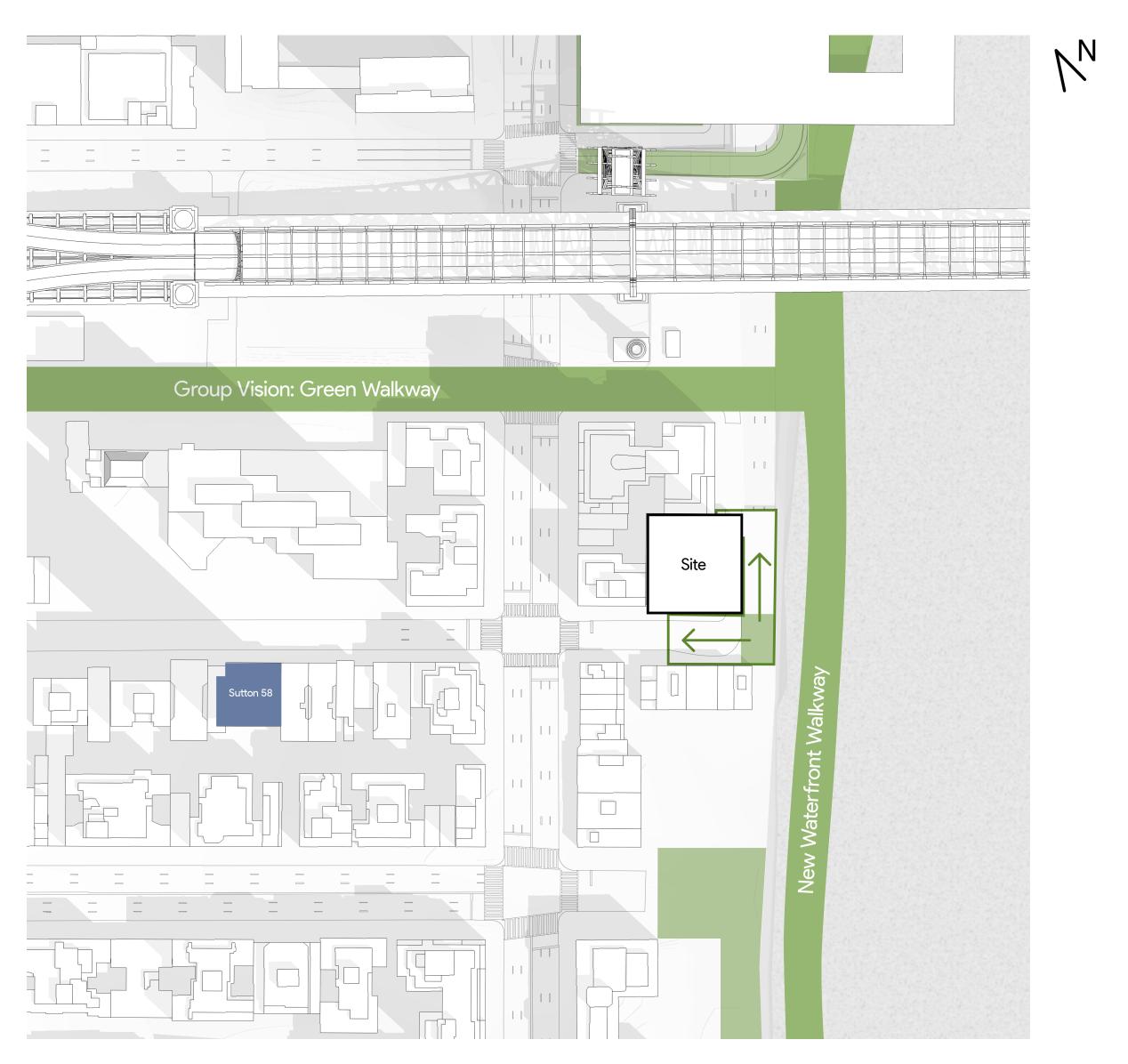
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## LO(ATION



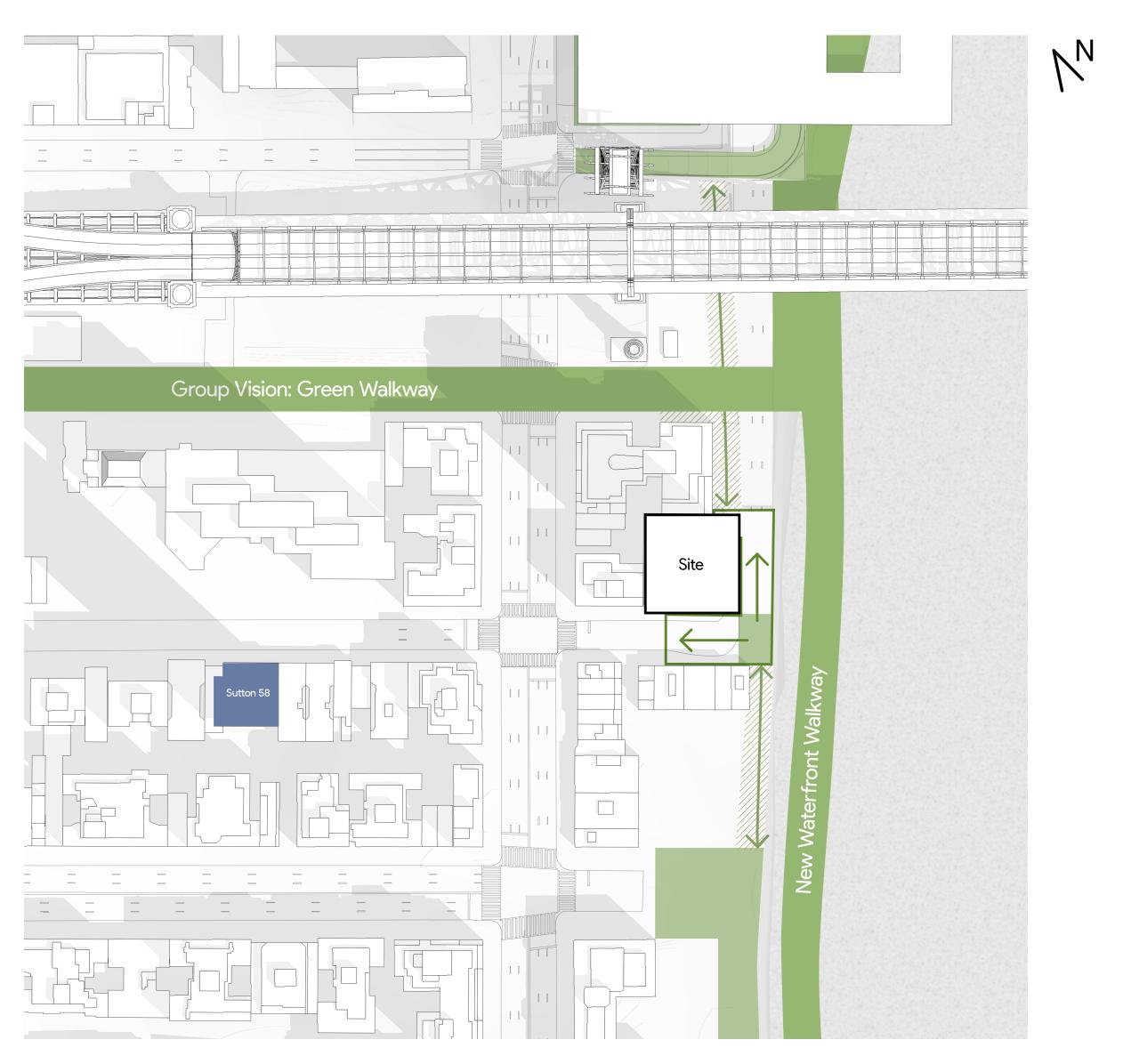
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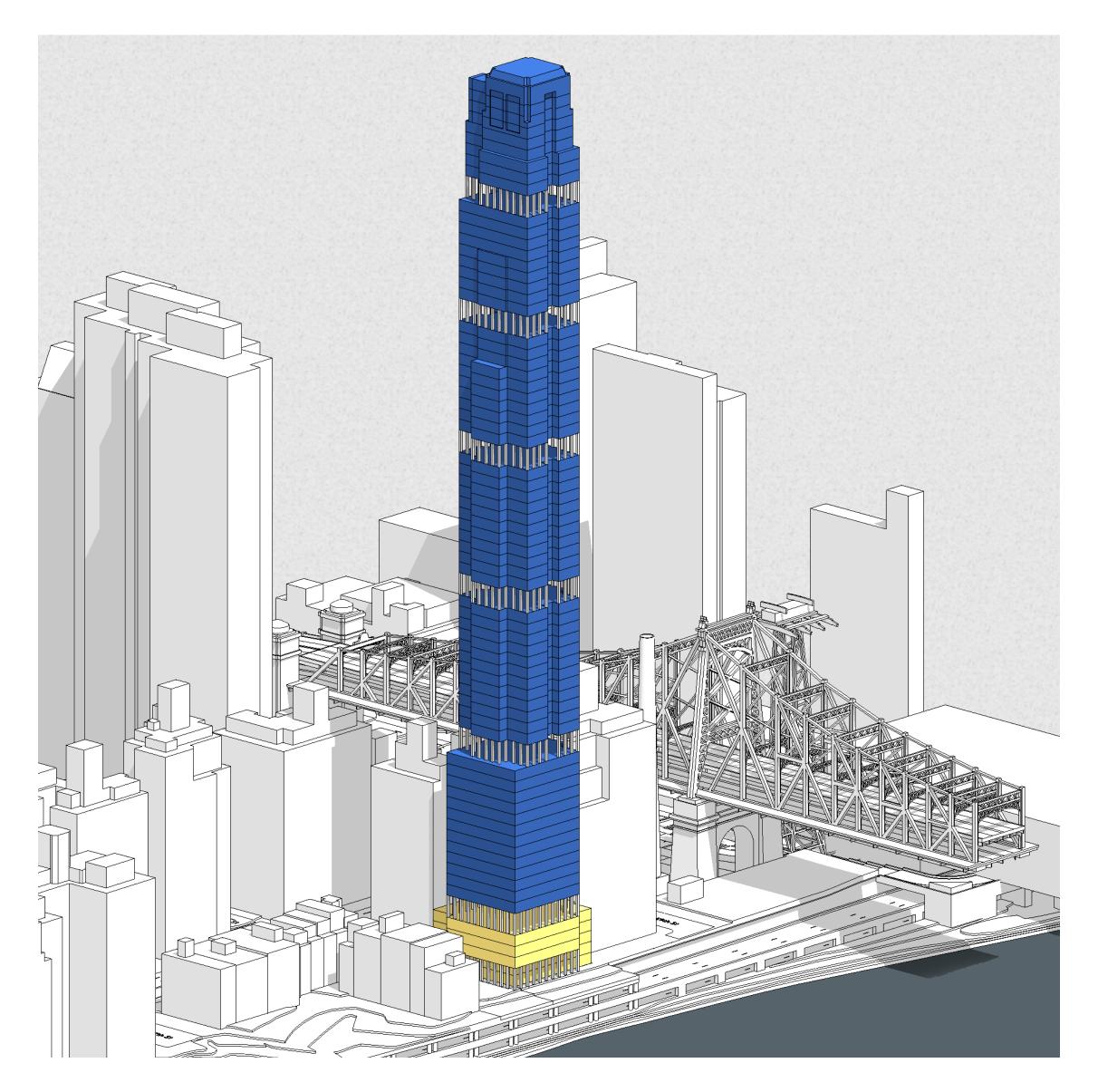
## SUTTON PARK



#### DUSHEAXE HARE



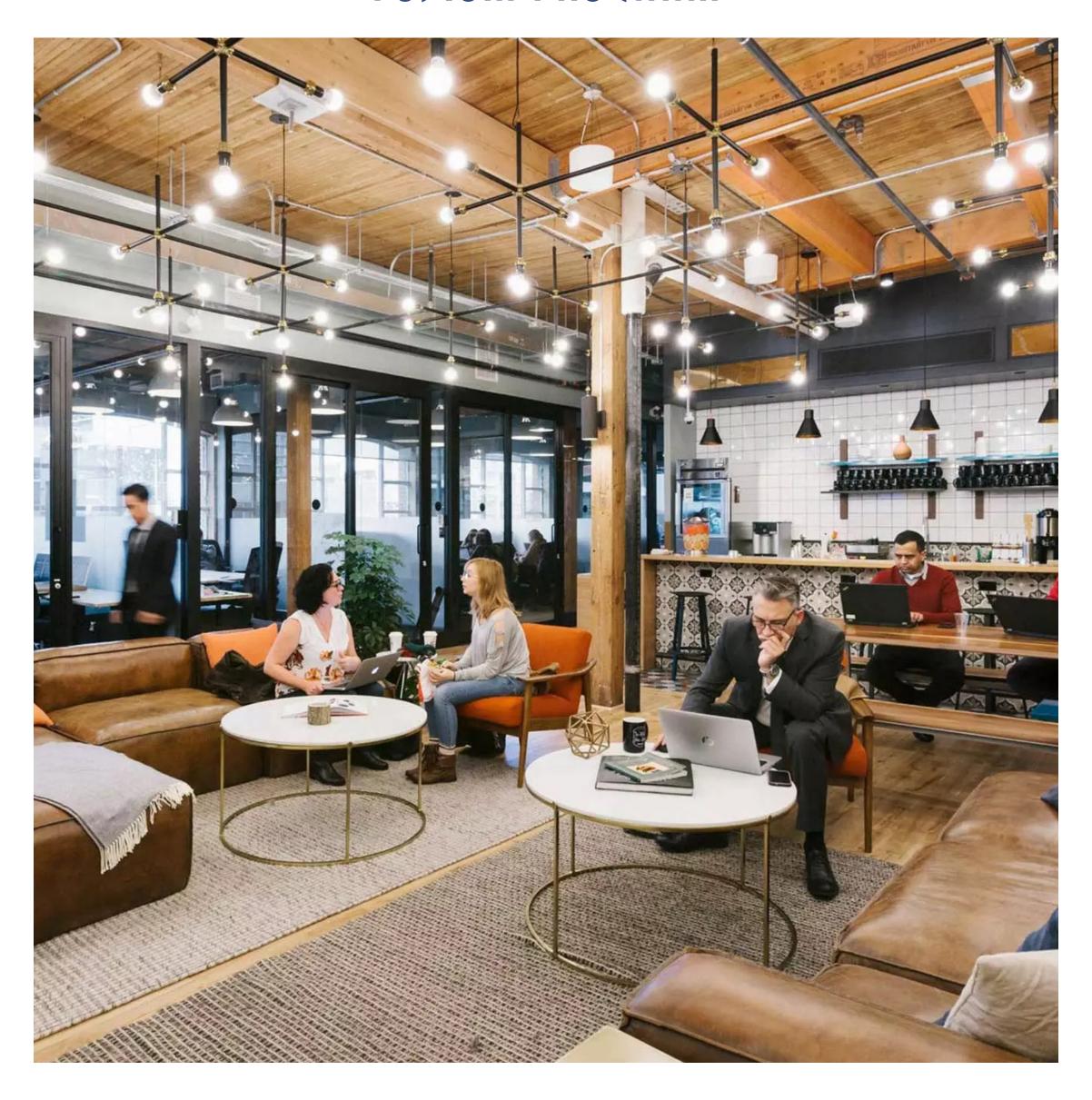
## MRADOAG DAIGJIUB



## MRADOAY MUIDOY



### MRADOAY MUIDOY



#### MHADOAY AJWOT

50% Low-Income

50% Market

25% Low- 35

35% Moderate-

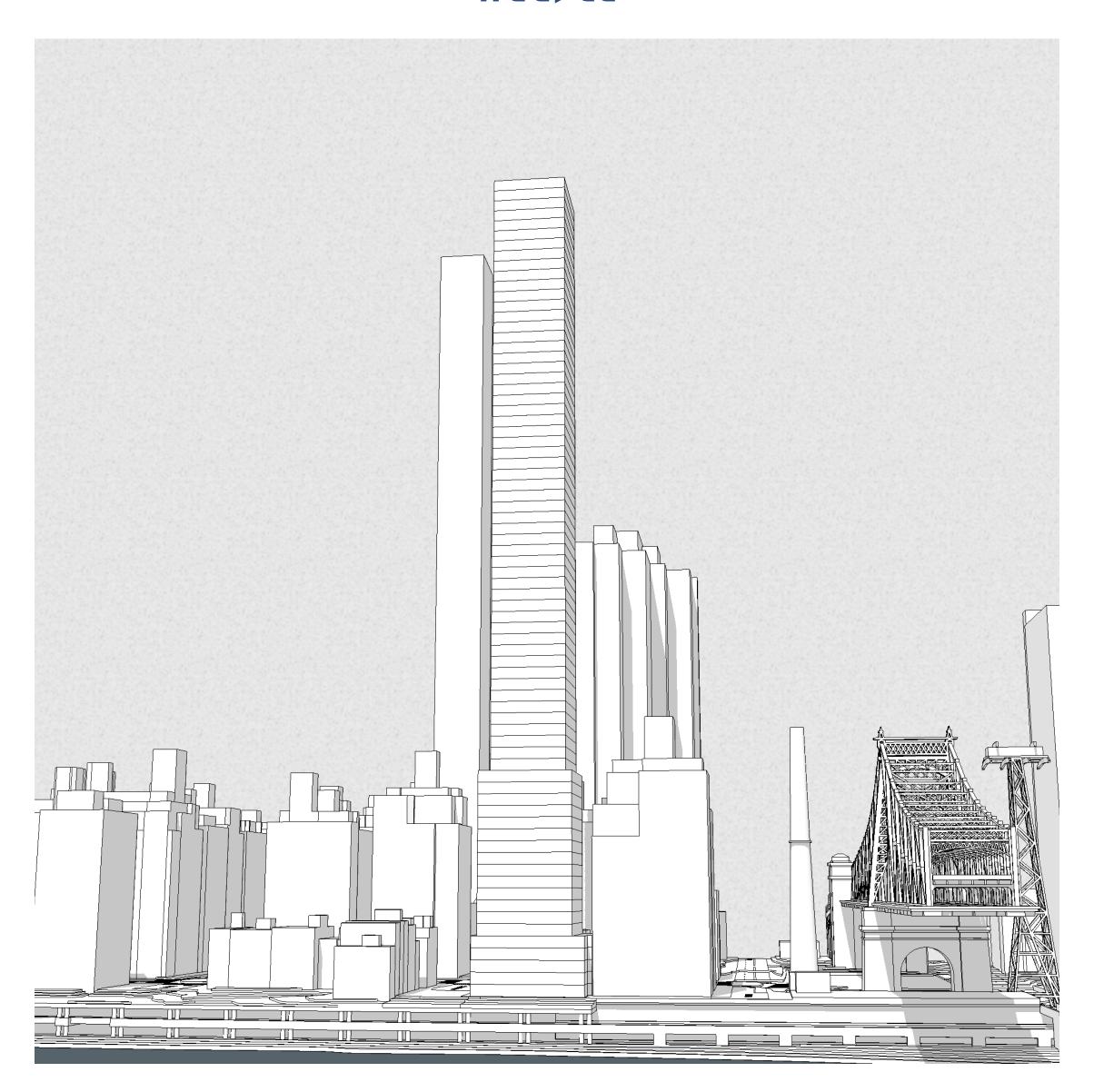
45% Middle-Income

#### MRADOAY AJWOT

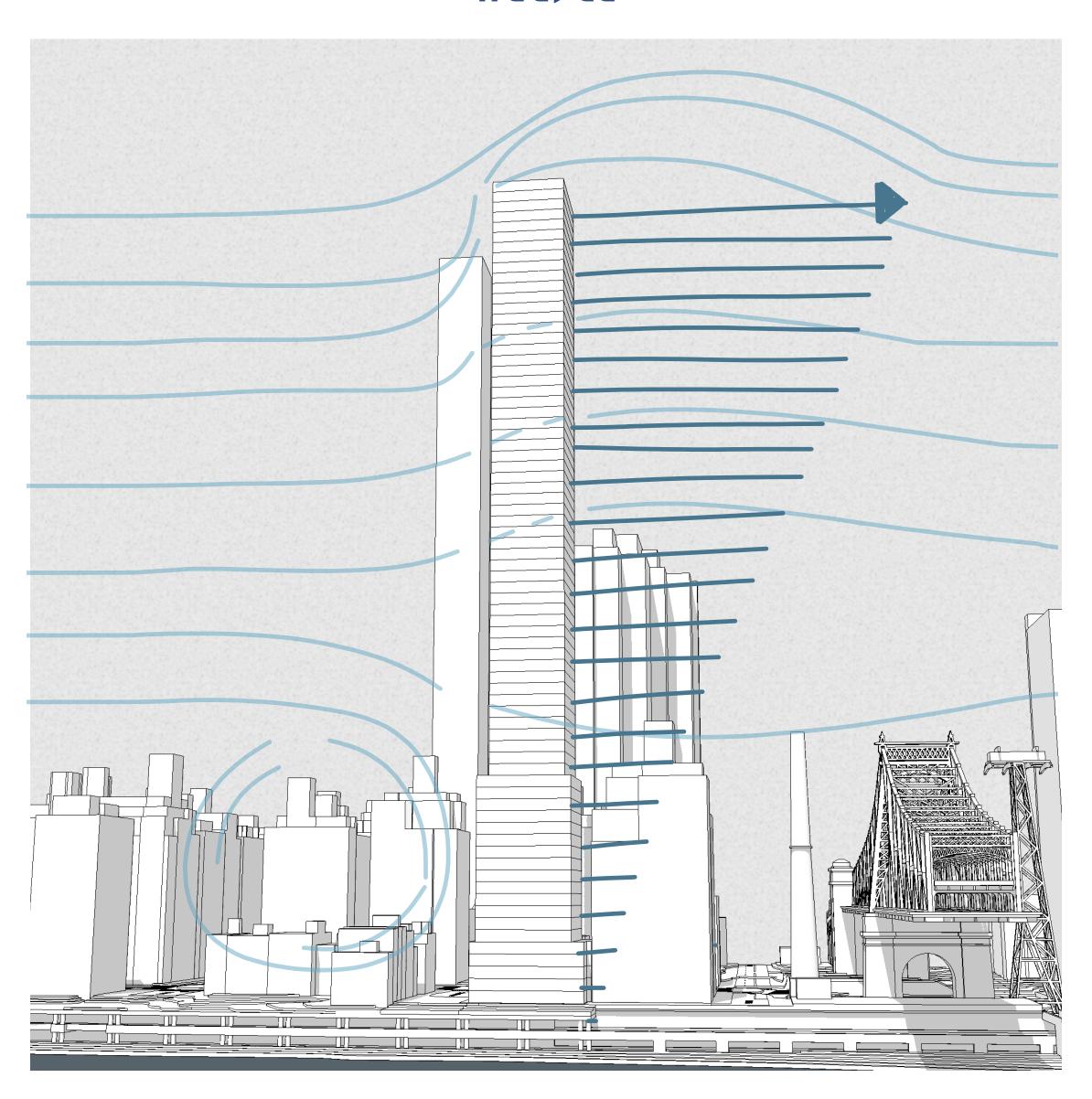
45% Middle-Income 25% Low- 35% Moderate-HDC - Mixed-Middle Income Program (M2) Price (\$) Area (SF) \$/SF 7 Sutton Square \$10,365.43 \$29,500,000.00 \$8,000,000.00 1438 \$5,563.28 3 Riverview Terrace 4 Riverview Terrace \$7,650,000.00 1200 \$6,375.00 5 Riverview Terrace 1328 \$2,495,000.00 \$1,878.77 6 Riverview Terrace \$6,000,000.00 1266 \$4,739.34 Area (SF) \$/SF Price (\$) Zoning Allowed Floor Area \$53,645,000.00 181771 \$295.12 Bonus FAR Park 22721 Bought Air Rights \$10,125,000.00 45000 \$225.00 \$63,770,000.00 249493 \$255.60 Price land / Rentable SF \$255.60 \$396.00 Hard Costs (Construction) Soft costs (Administration etc.) \$79.00 Total Cost per Buildable SF Costs Annual Debt Service / SF \$32.41 2.00% Interest Rate Period (Years) Operating Expense Per Unit \$6,700.00 Max Number of Units Actual Number of Units **Total Annual Costs** \$9,867,063.48 **Unit Averages** Average floor area per unit 937.9421053 \$3.30 Average rent per SF \$3,091.19 Average rent per unit 66.5 \$88,694.38 \$1.57 Min 20% of units < 50% AMI \$53,350.00 **\$1,333.75** 25.00% Min 30% of units 80% - 100% AMI \$106,700.00 **\$2,667.50** 30.00% 79.8 \$212,866.50 \$2.96 \$4,401.38 45.00% 119.7 \$526,844.59 Max 50% of units 130-165% AMI \$176,055.00 Total monthly income \$828,405.46 242060 Total SF Total annual income \$9,940,865.55 SF deficit 7433

Total annual deficit \$73,802.07

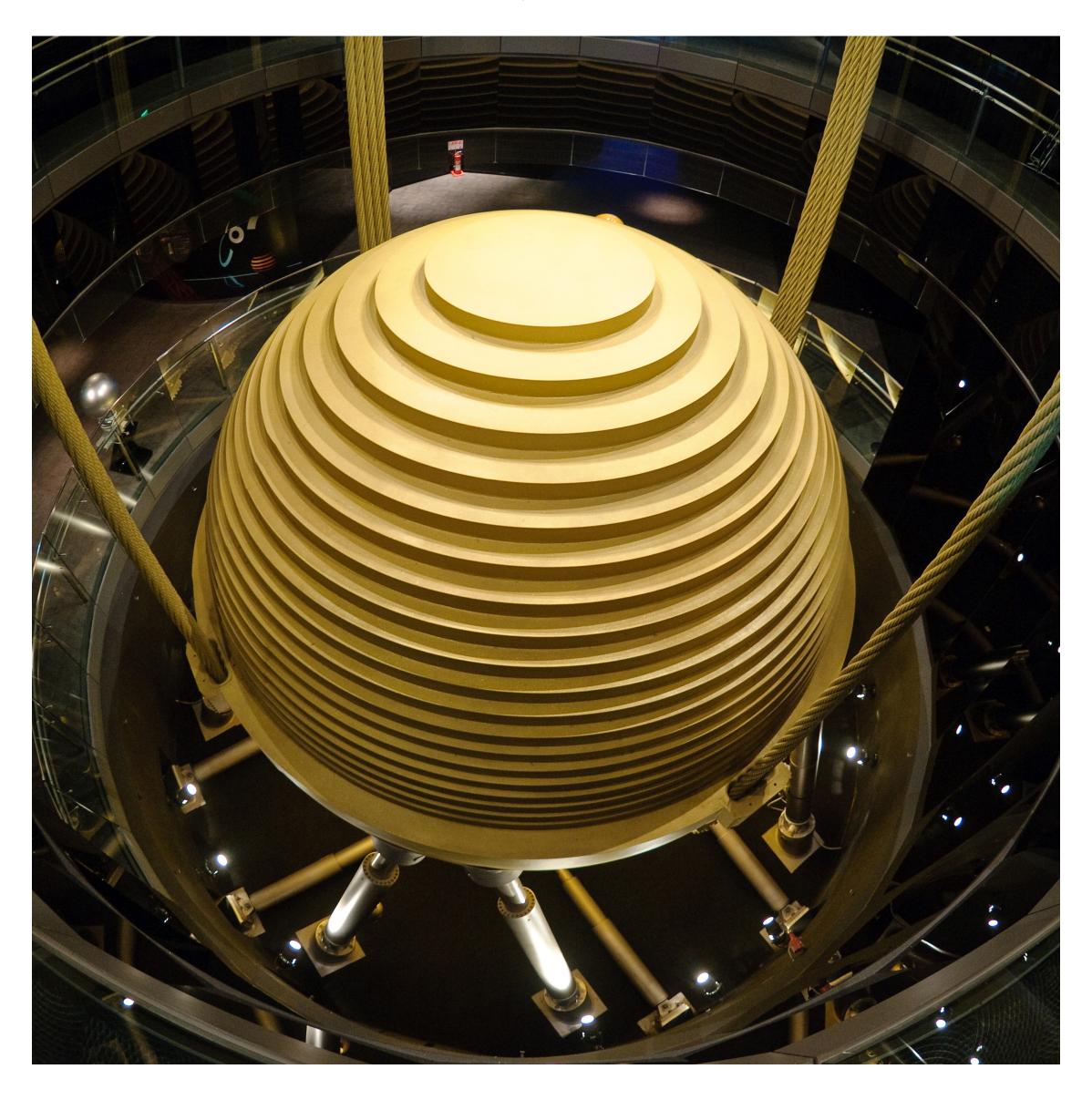
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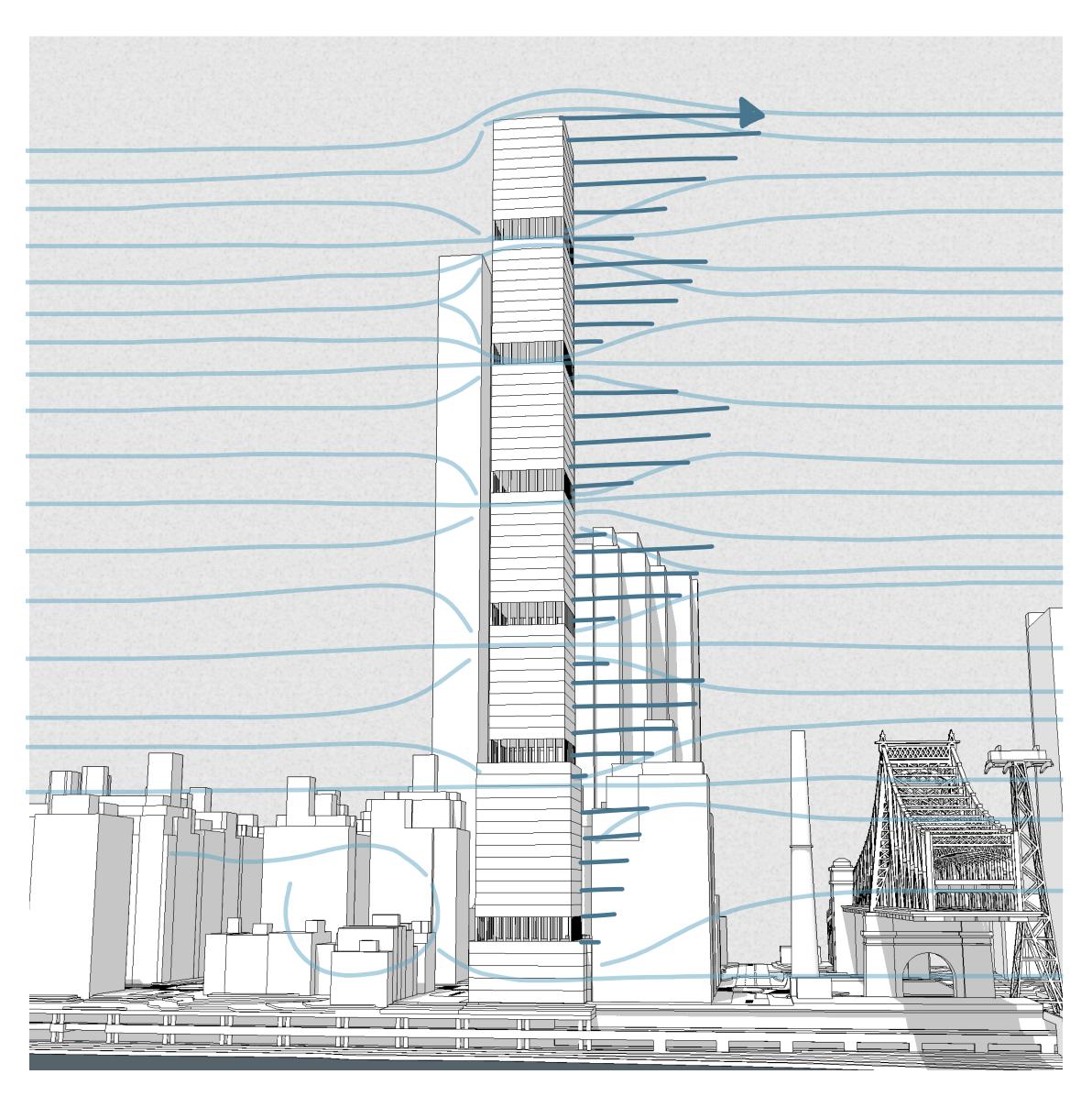
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## WASS DAMPER



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#### PHOMED THING (TUBE

How do you create a building that people want to keep?

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### JAUNJIH)AH (JVOJJA AOT INJACH E

**FUNCTIONAL**Adaptable

UNIQUE Recognizable

### JAUNJIH)AA (JVOJJA AOT INJACA E

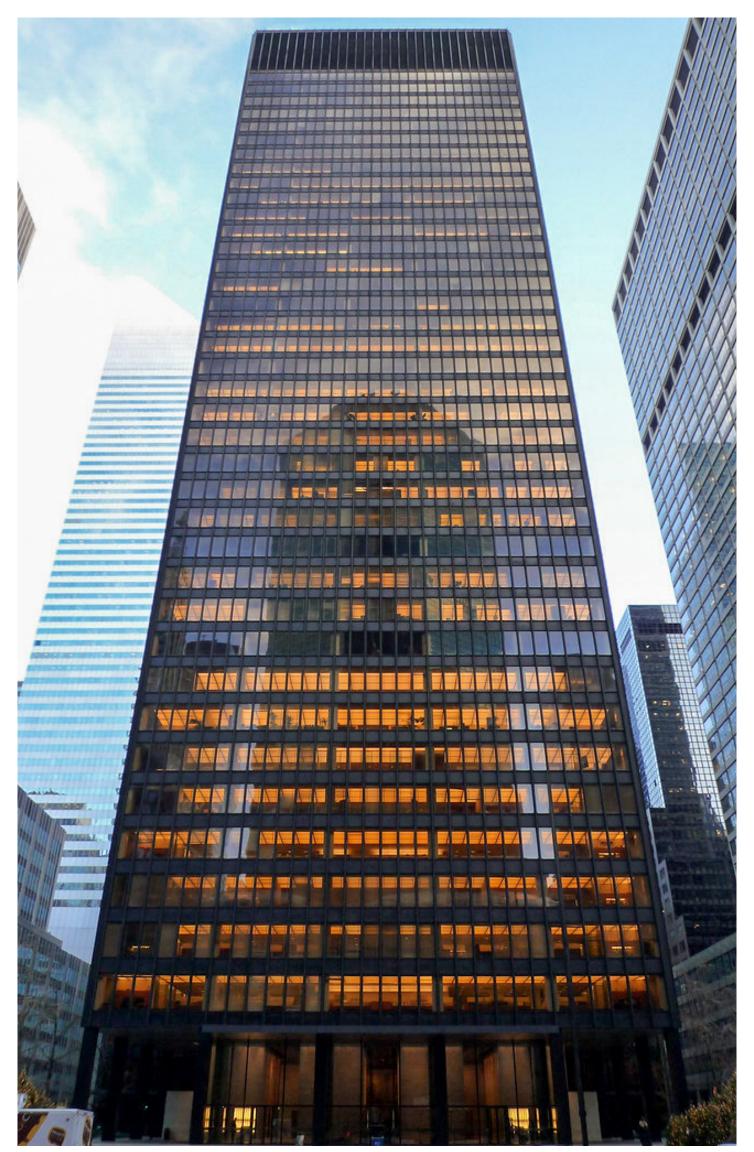
**FUNCTIONAL**Adaptable

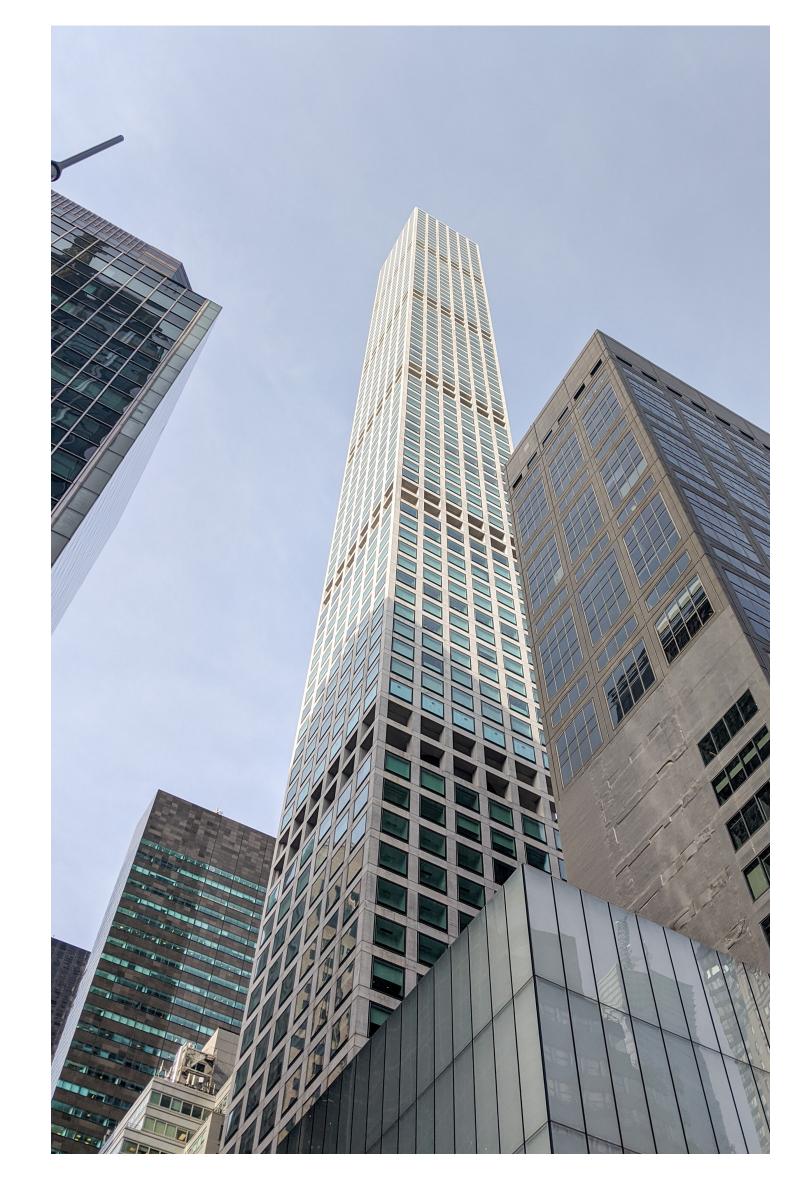
UNIQUE Recognizable

(ULTURAL Local Architectural Language

#### JACUTAL JACUTALI JACE







# BUILDING DESIGN



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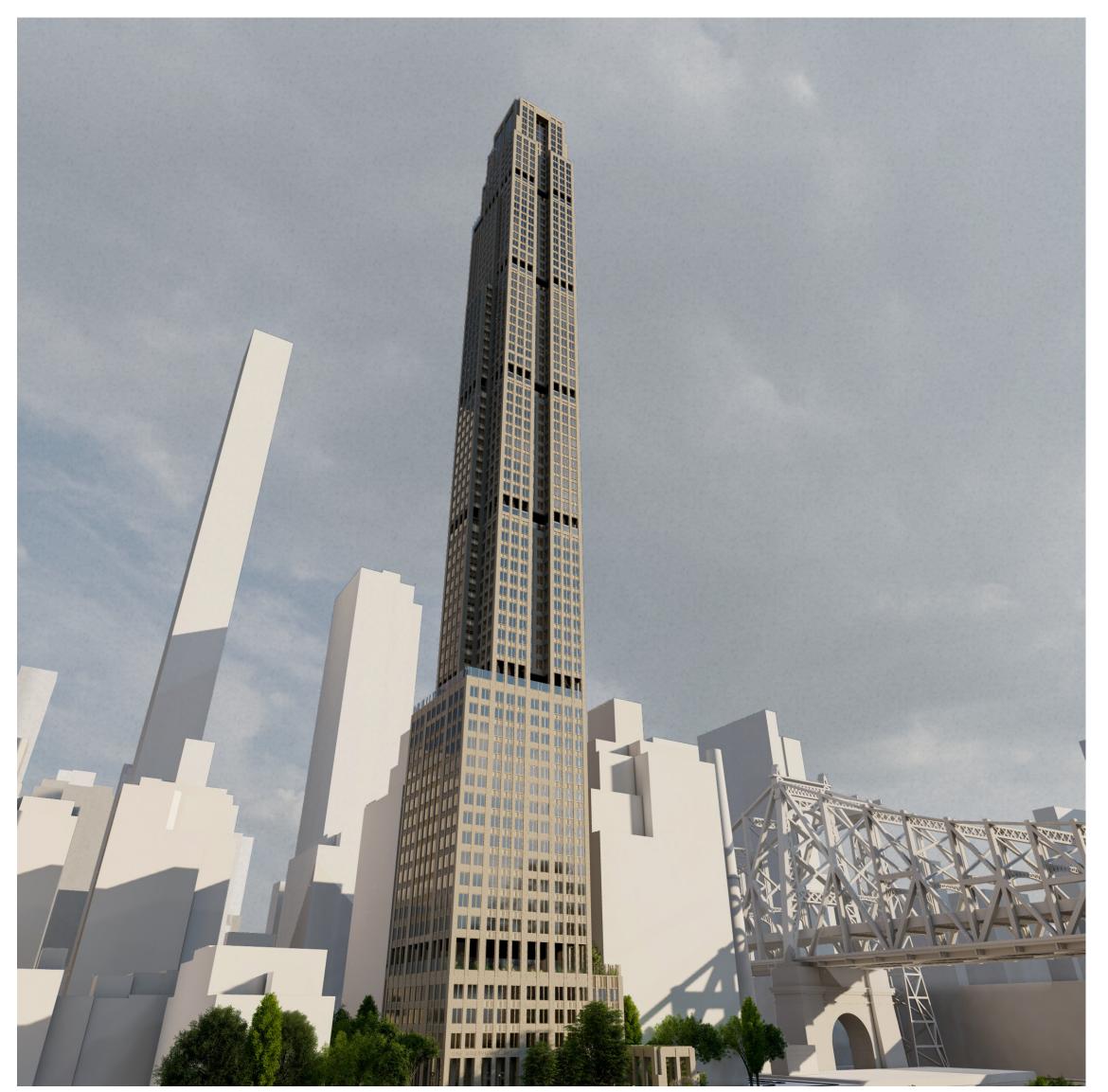


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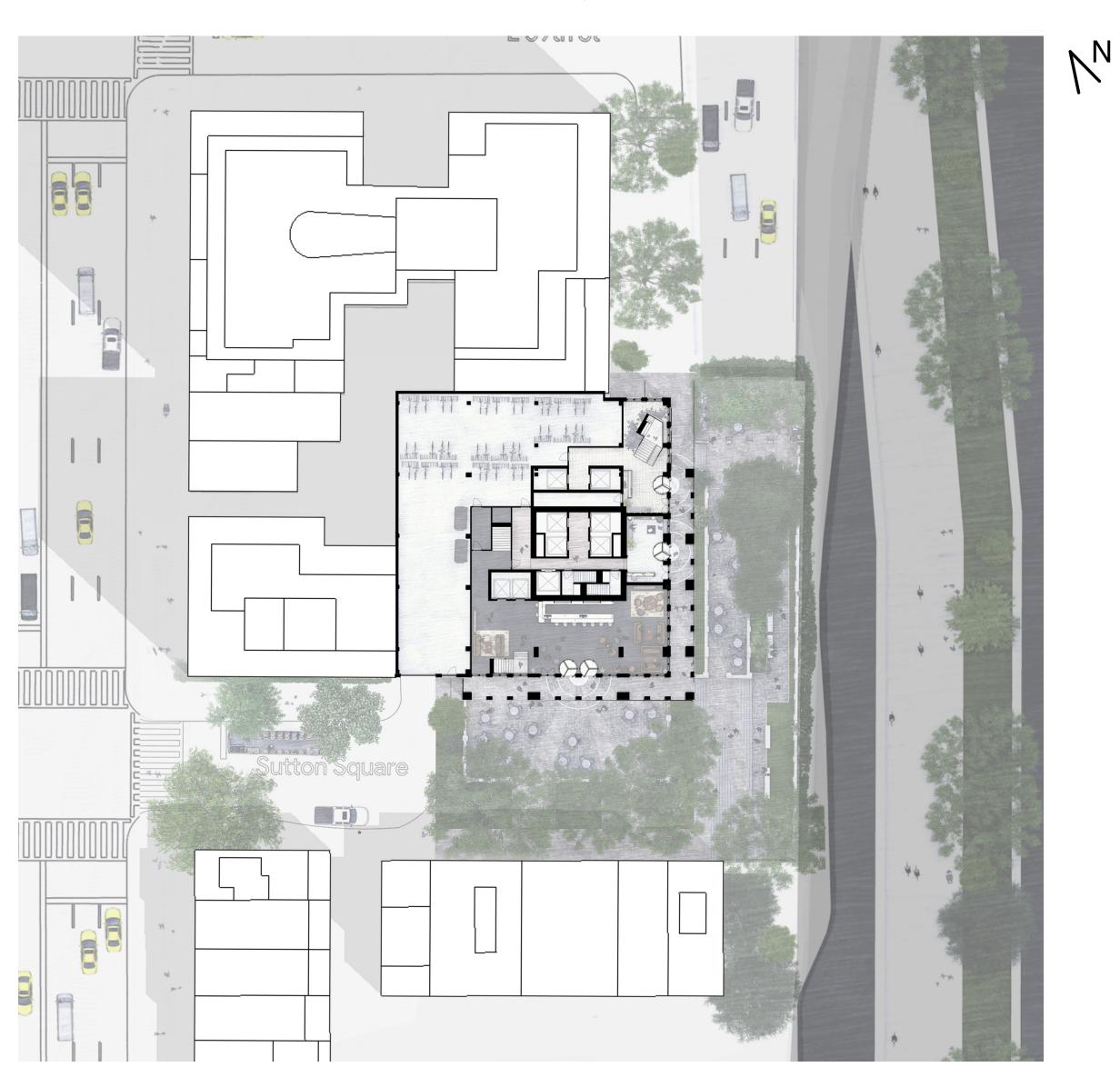
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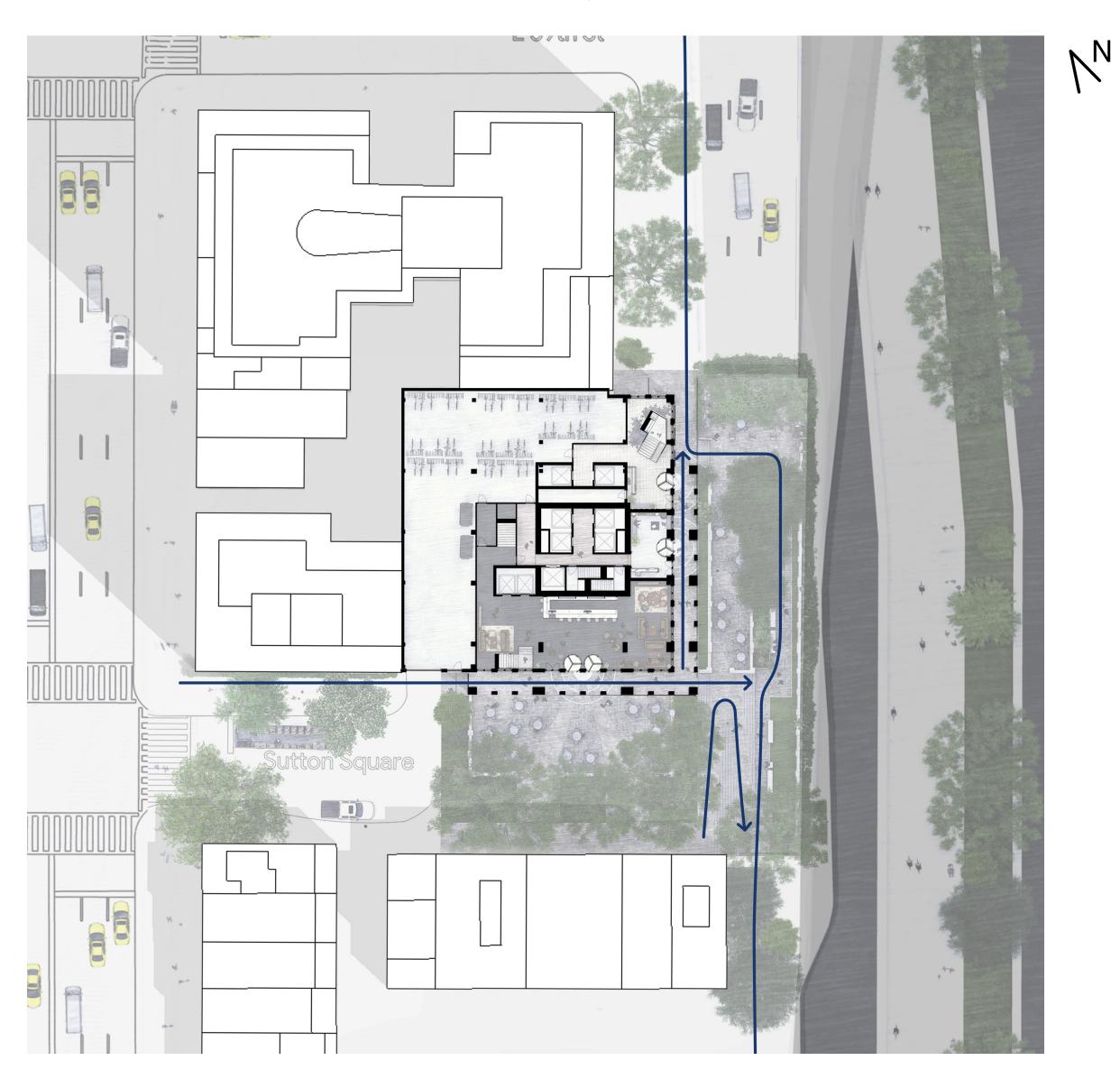
PART V

Implementation

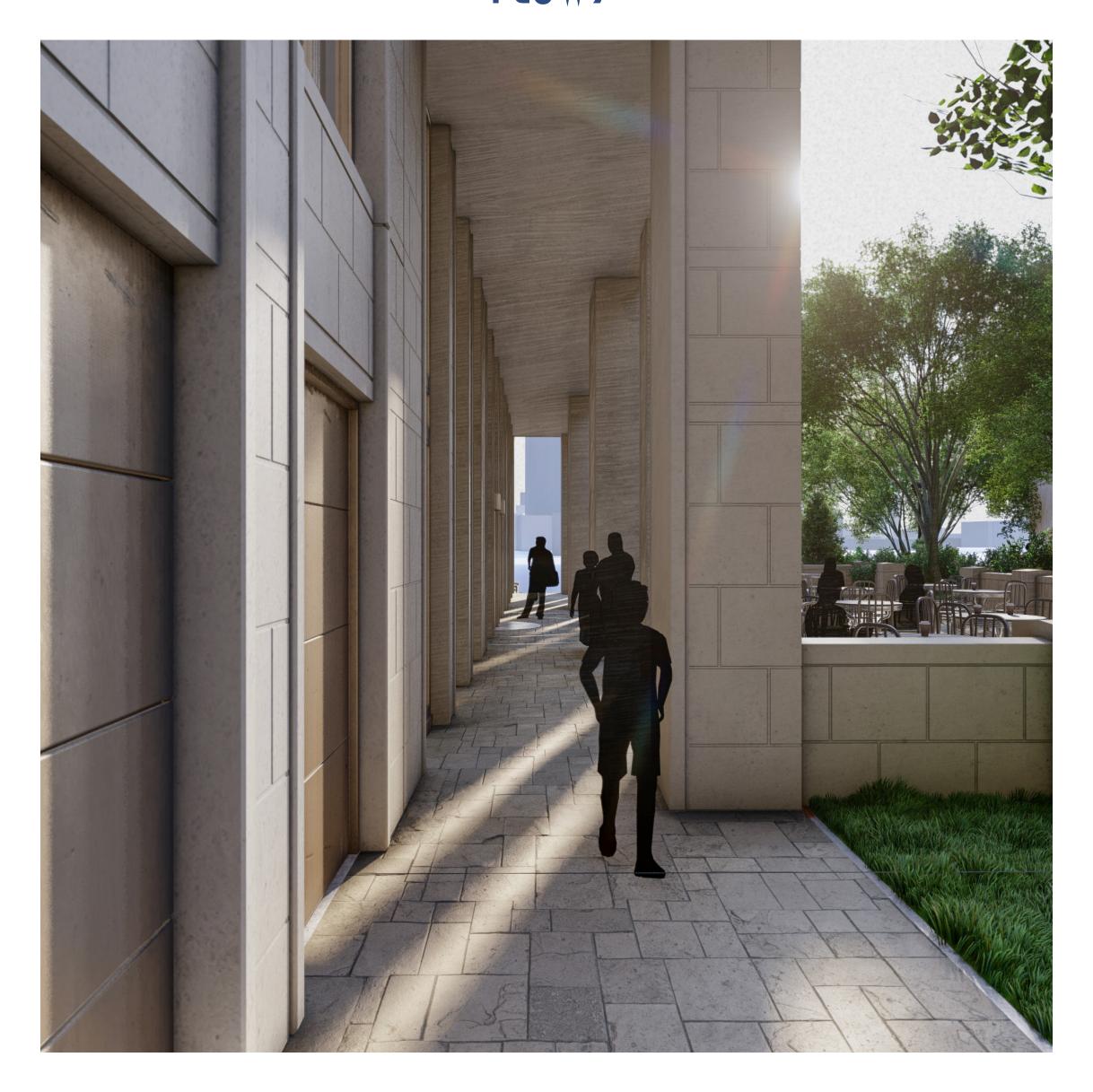
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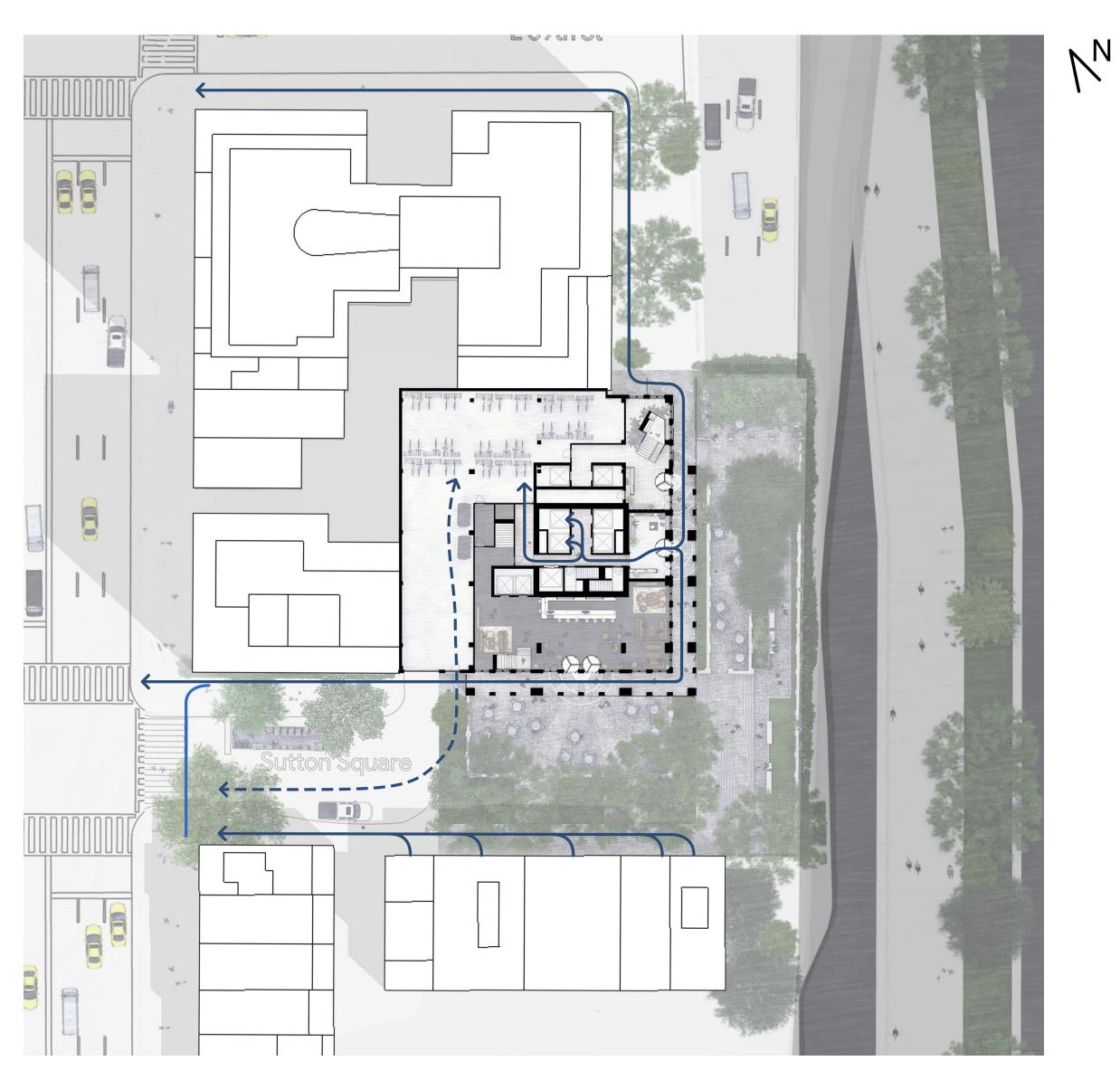
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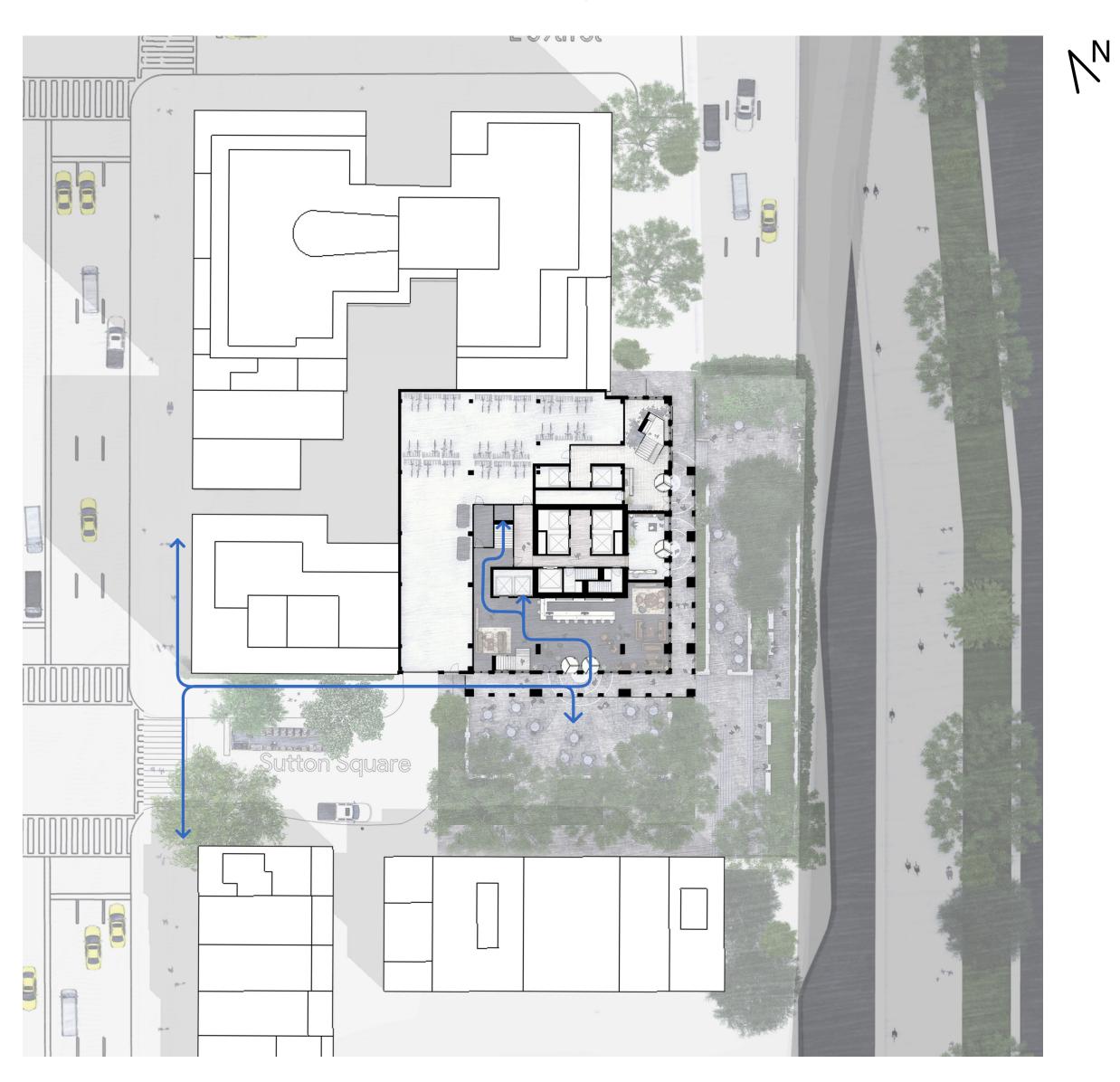
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### NOITHADJTNI NAGAU



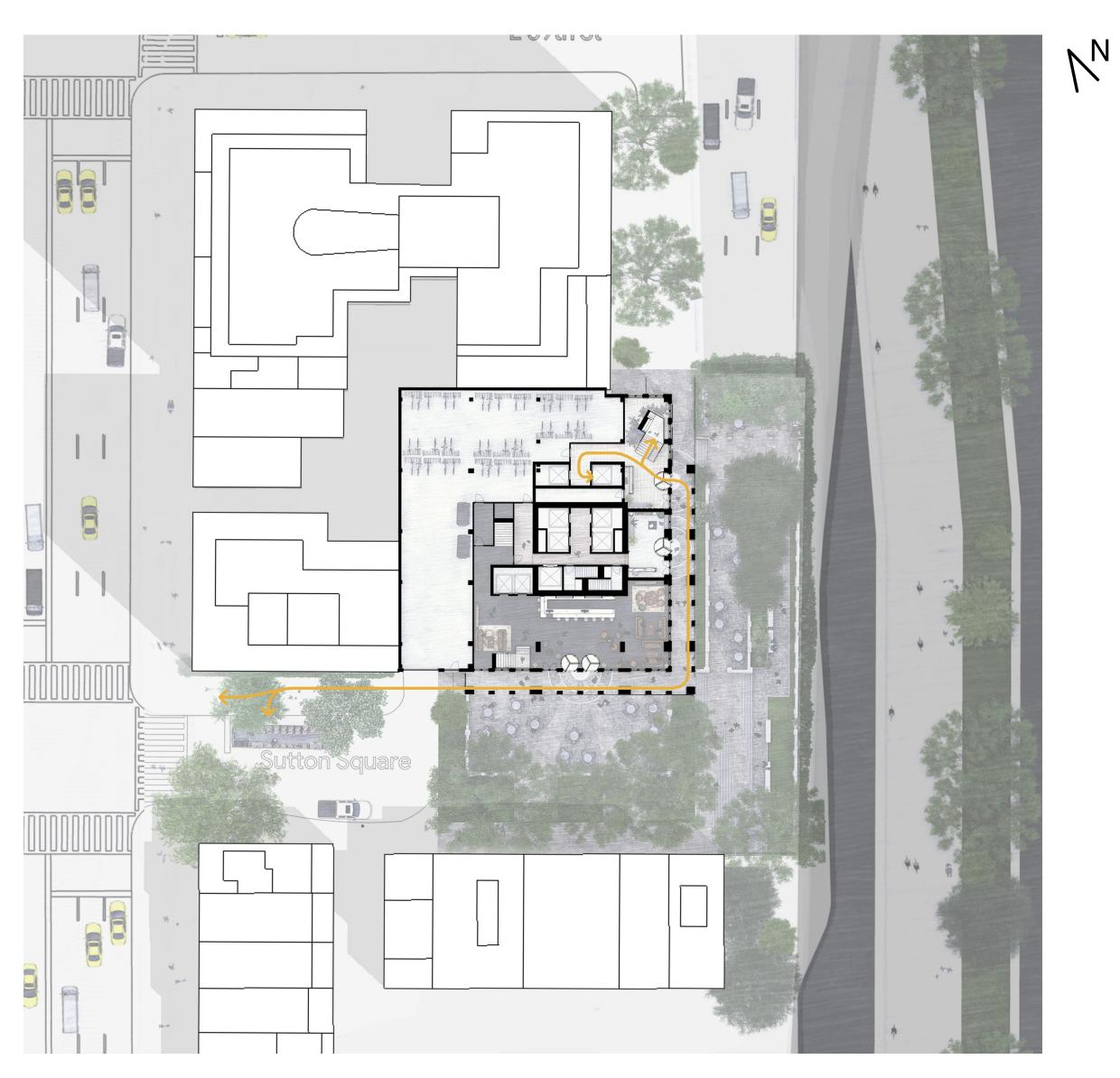
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### CROUND Trook: ENITAUNCE (O-MOTRING & CUTE



### NOITHADJTNI NAGAU



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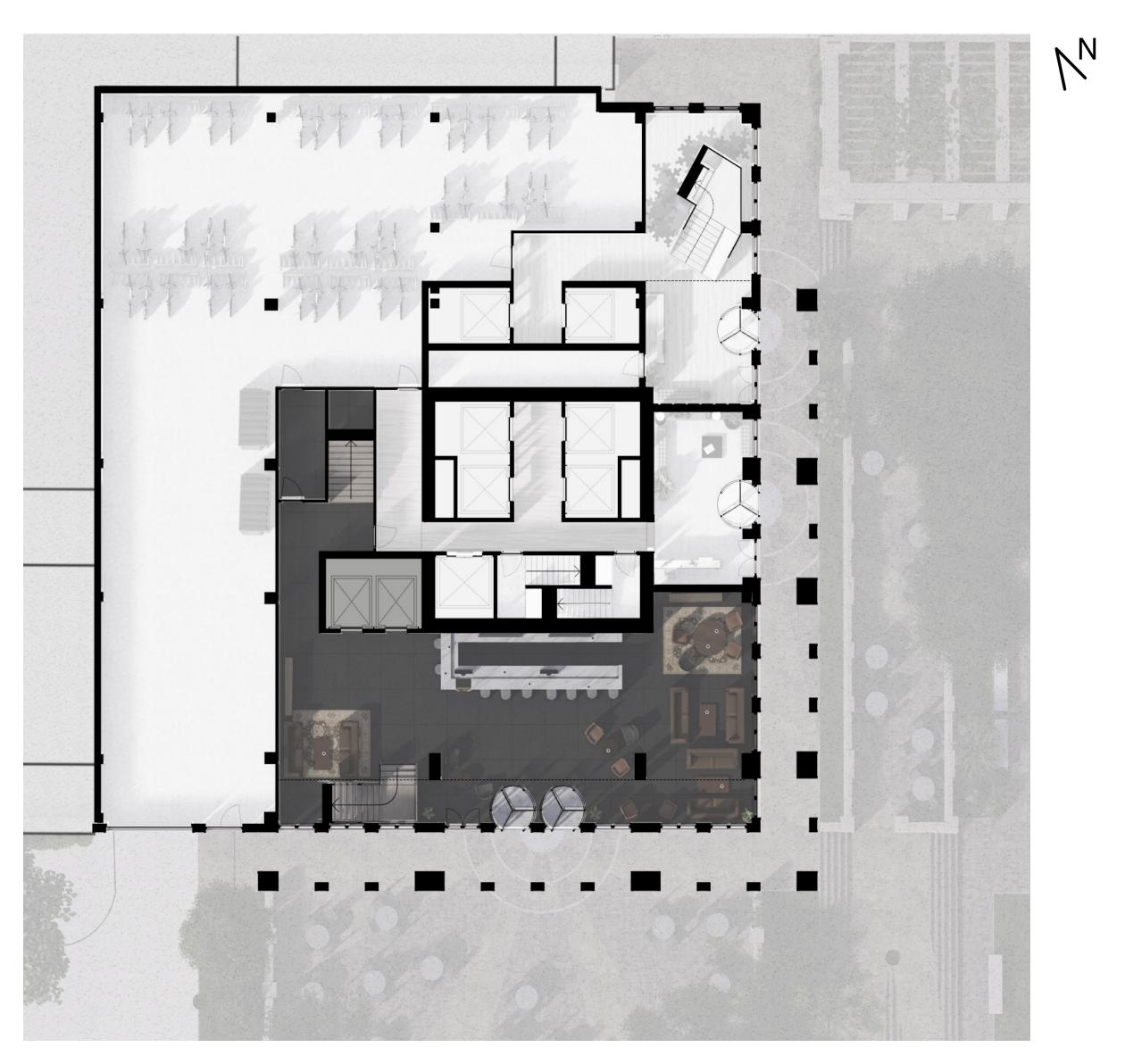
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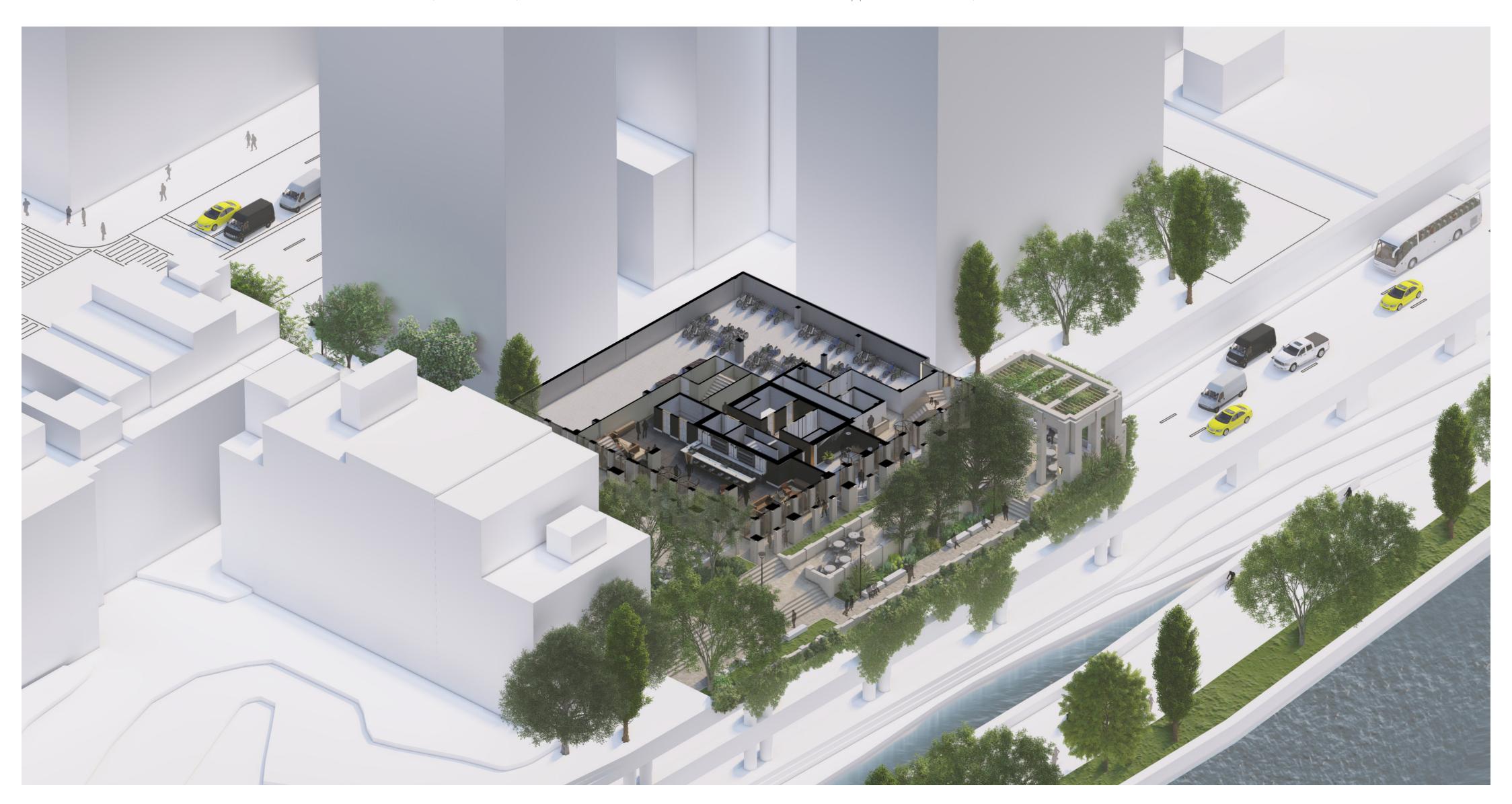
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### CHOUND TROOK: ENTRAINE (O-MORKING & CHTE



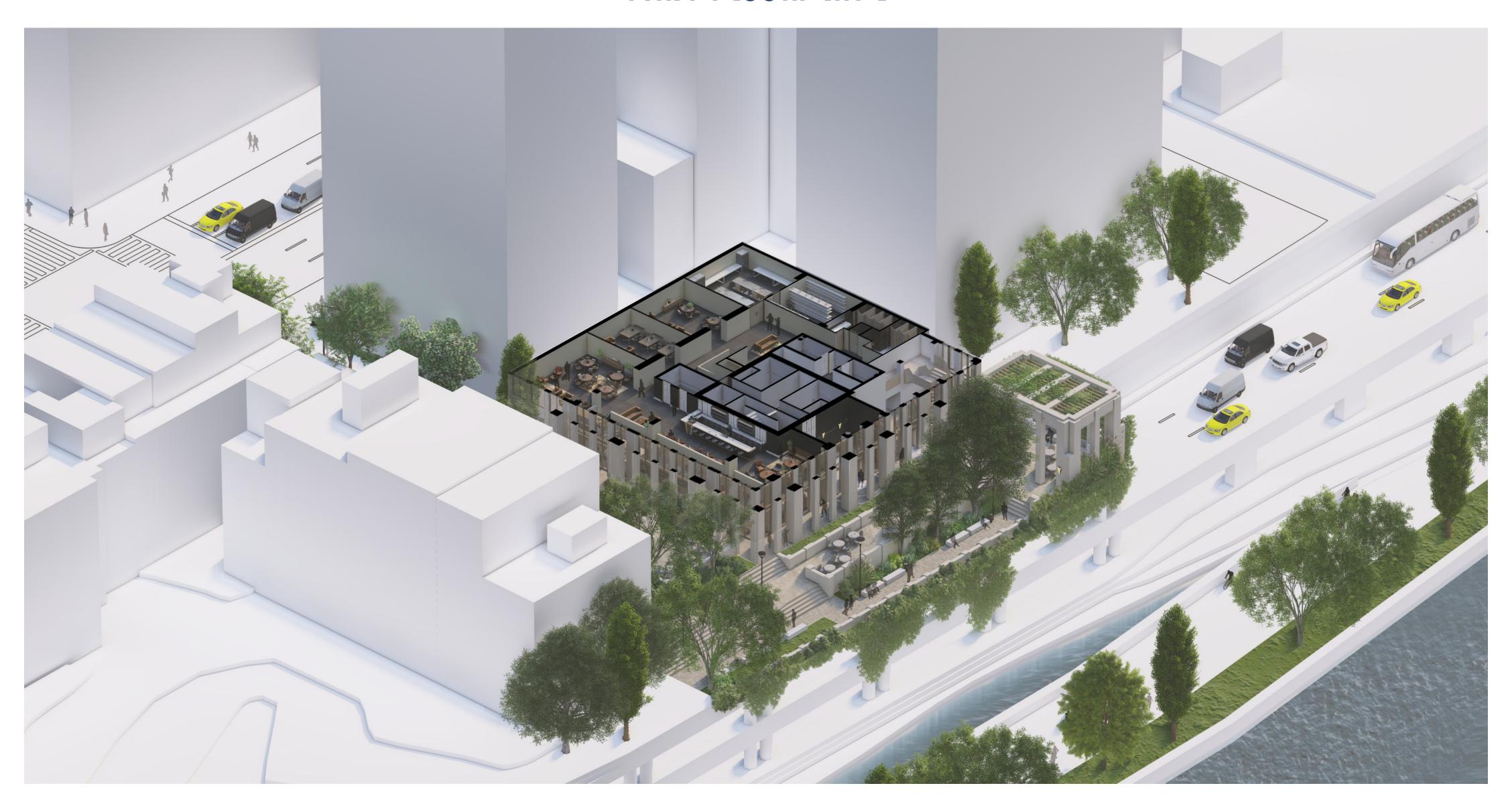
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# CROUND FLOOM: ENTRANCE (O-MORKING & CUTE



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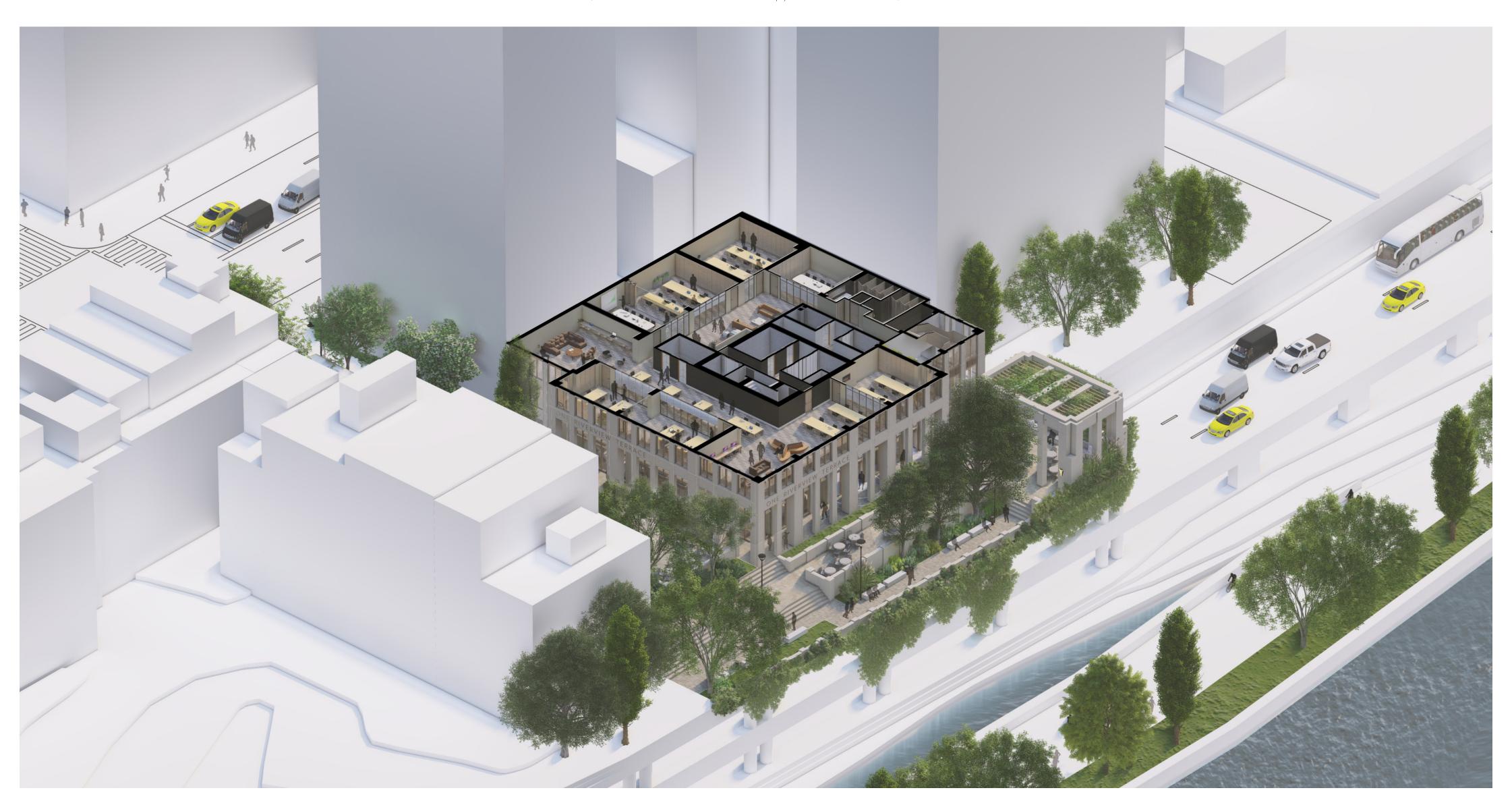
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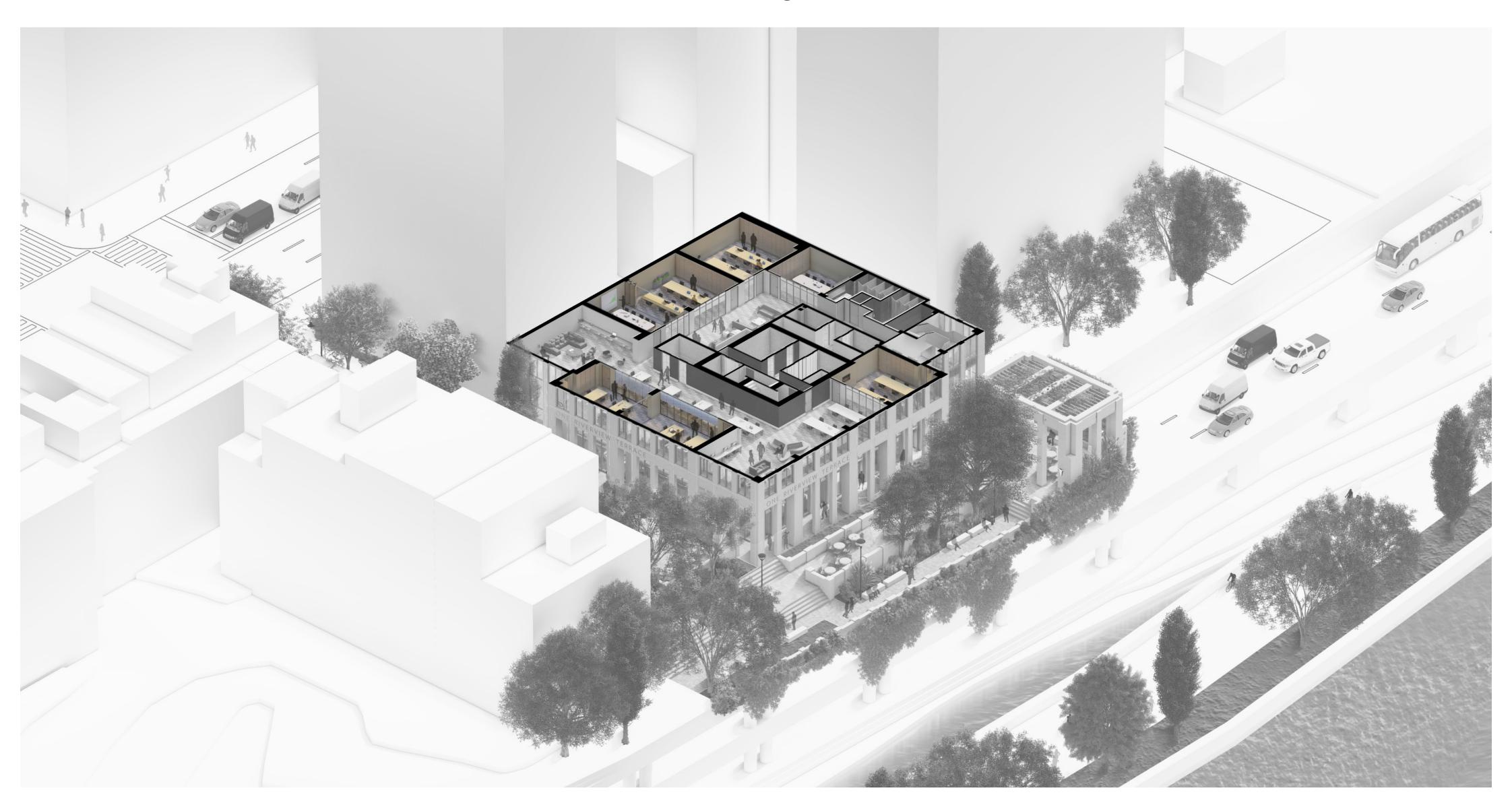
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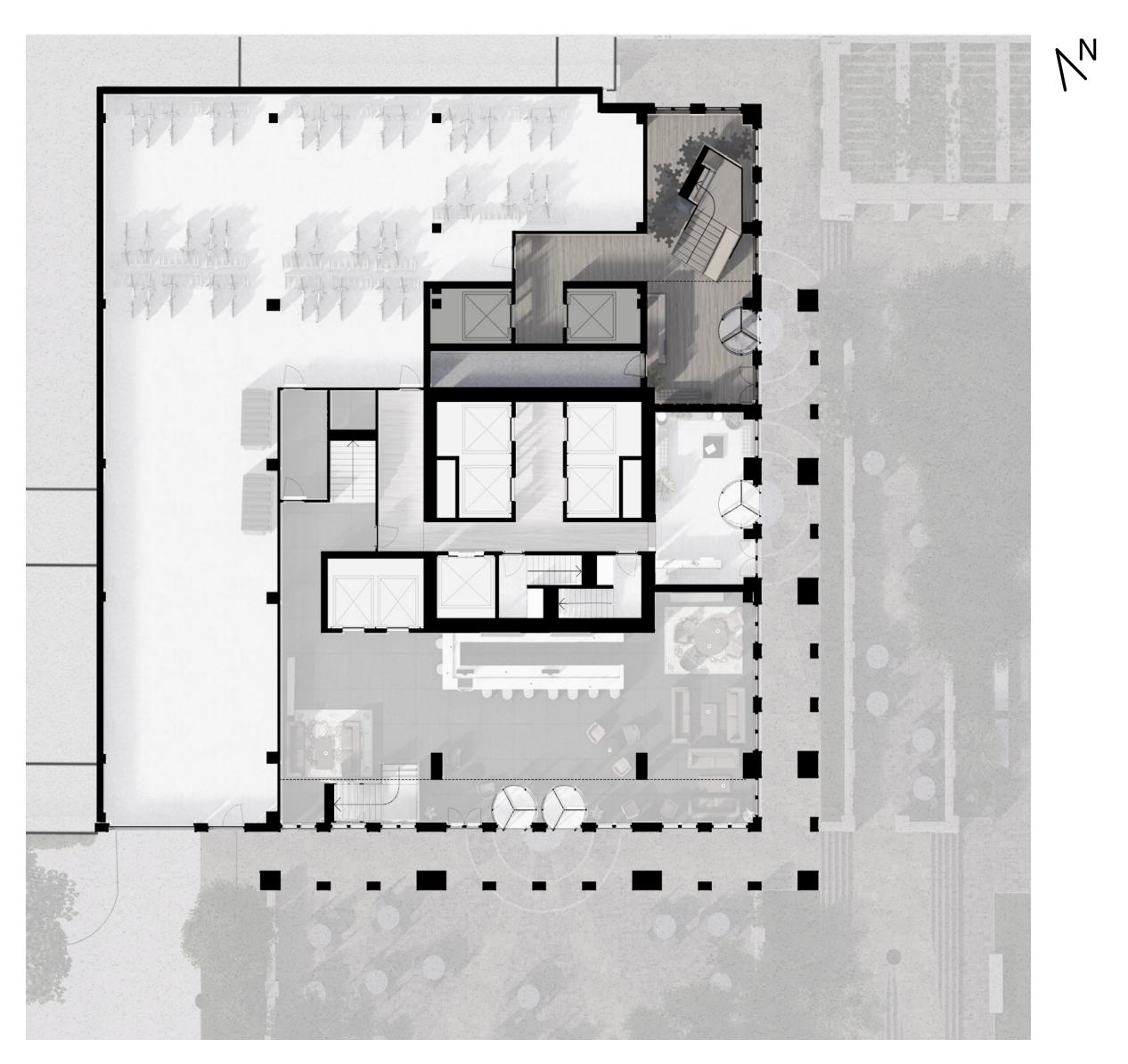
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### tfxibft Mob#?bt(f?



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#### 100H)544 3)NHATH3 :400J1 (HU0A)



### 3AD & 4TH FLOOR: PRES(HOOL



### 4TH FLOOR: PRES(HOOL



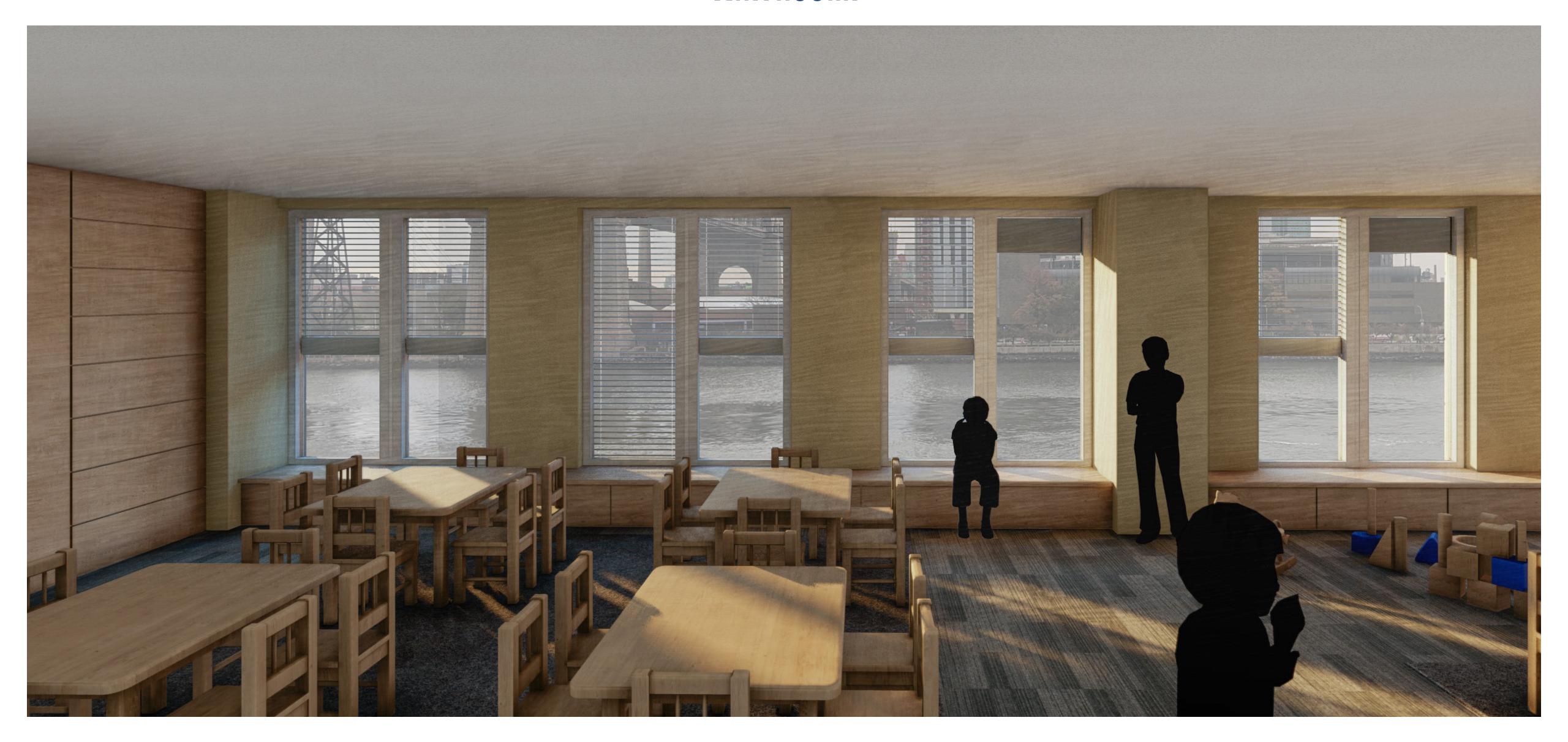
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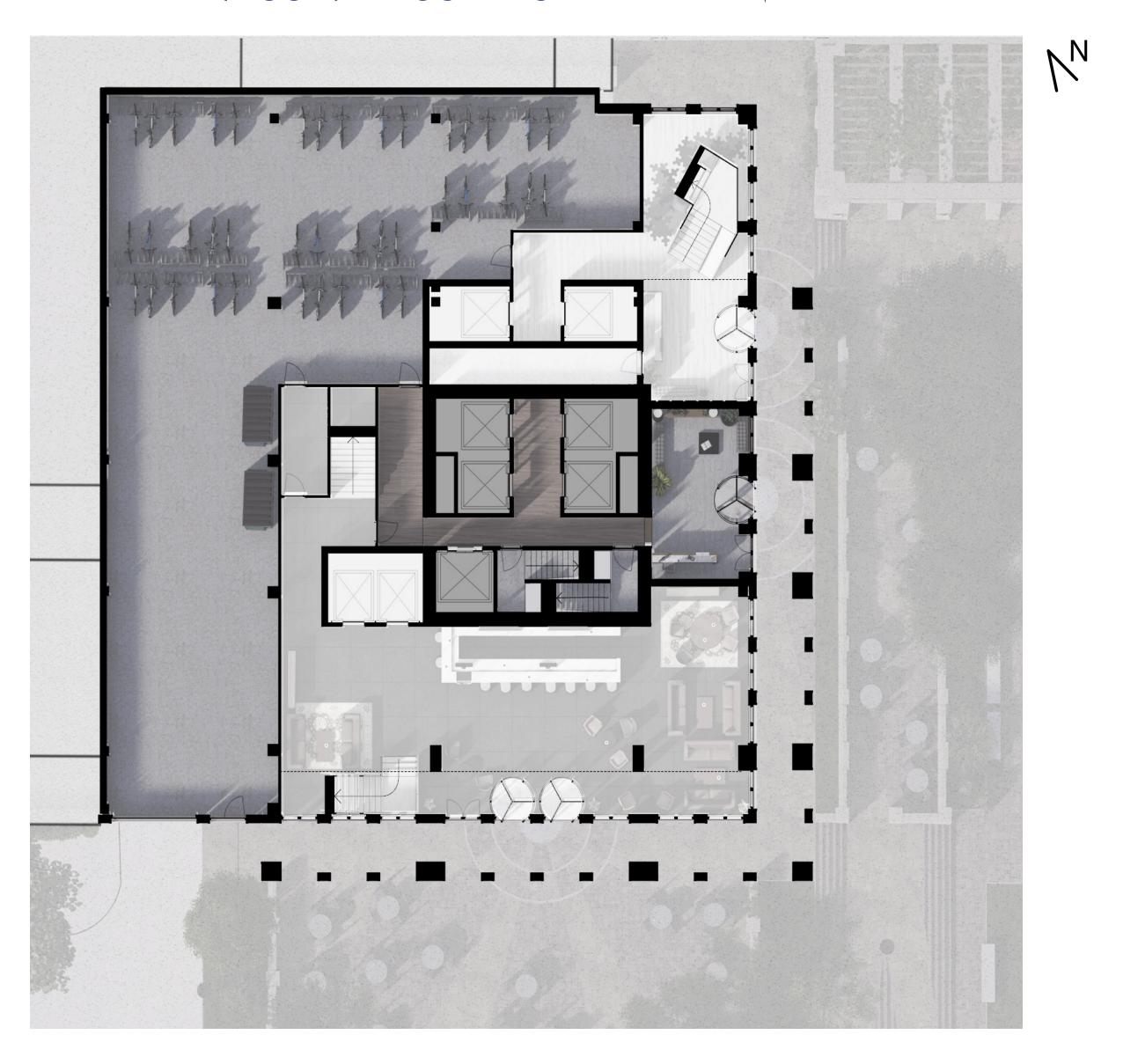
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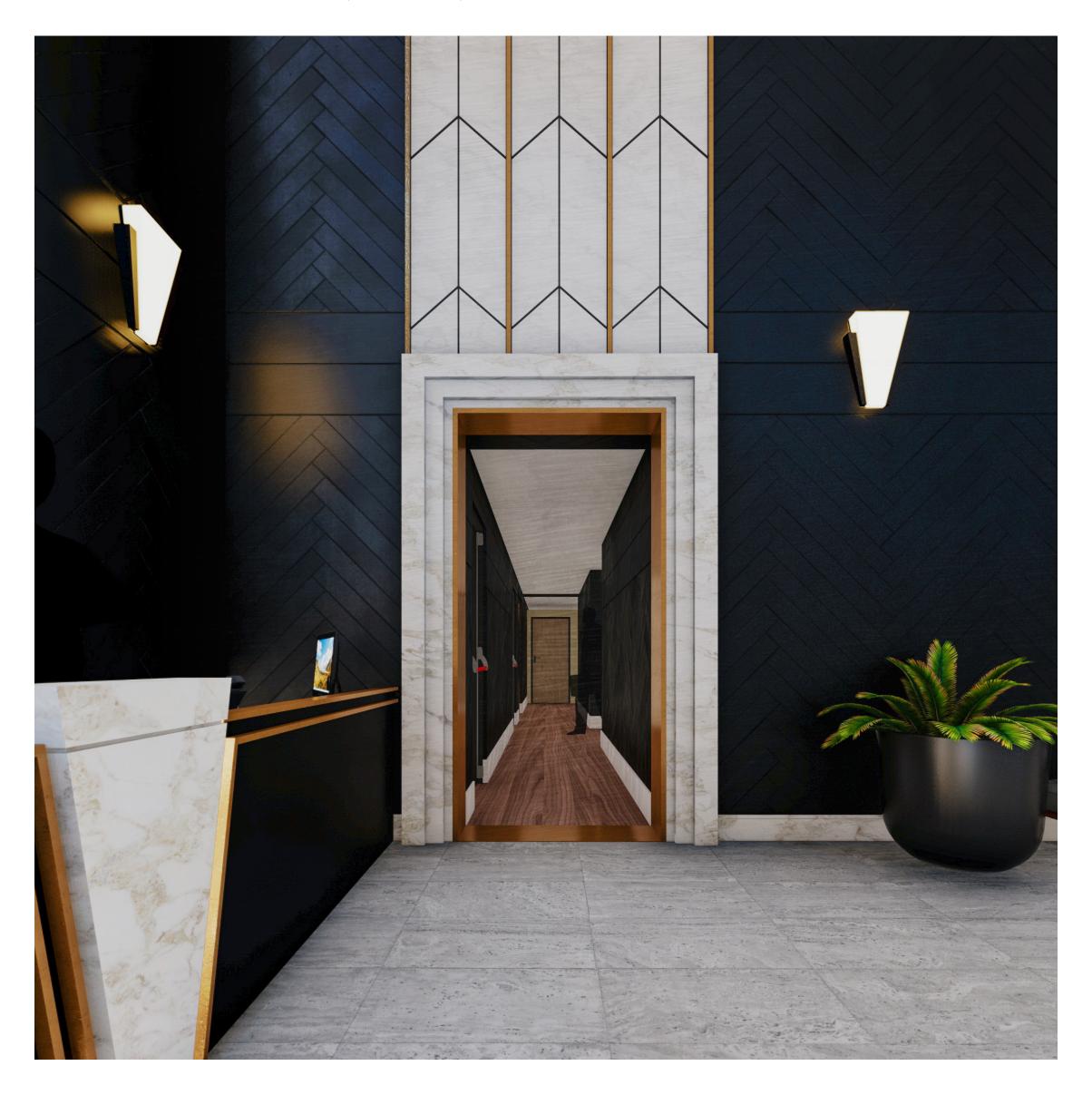
# (L1)()



#### CAOUND TLOODS: FORBY & SERVICES



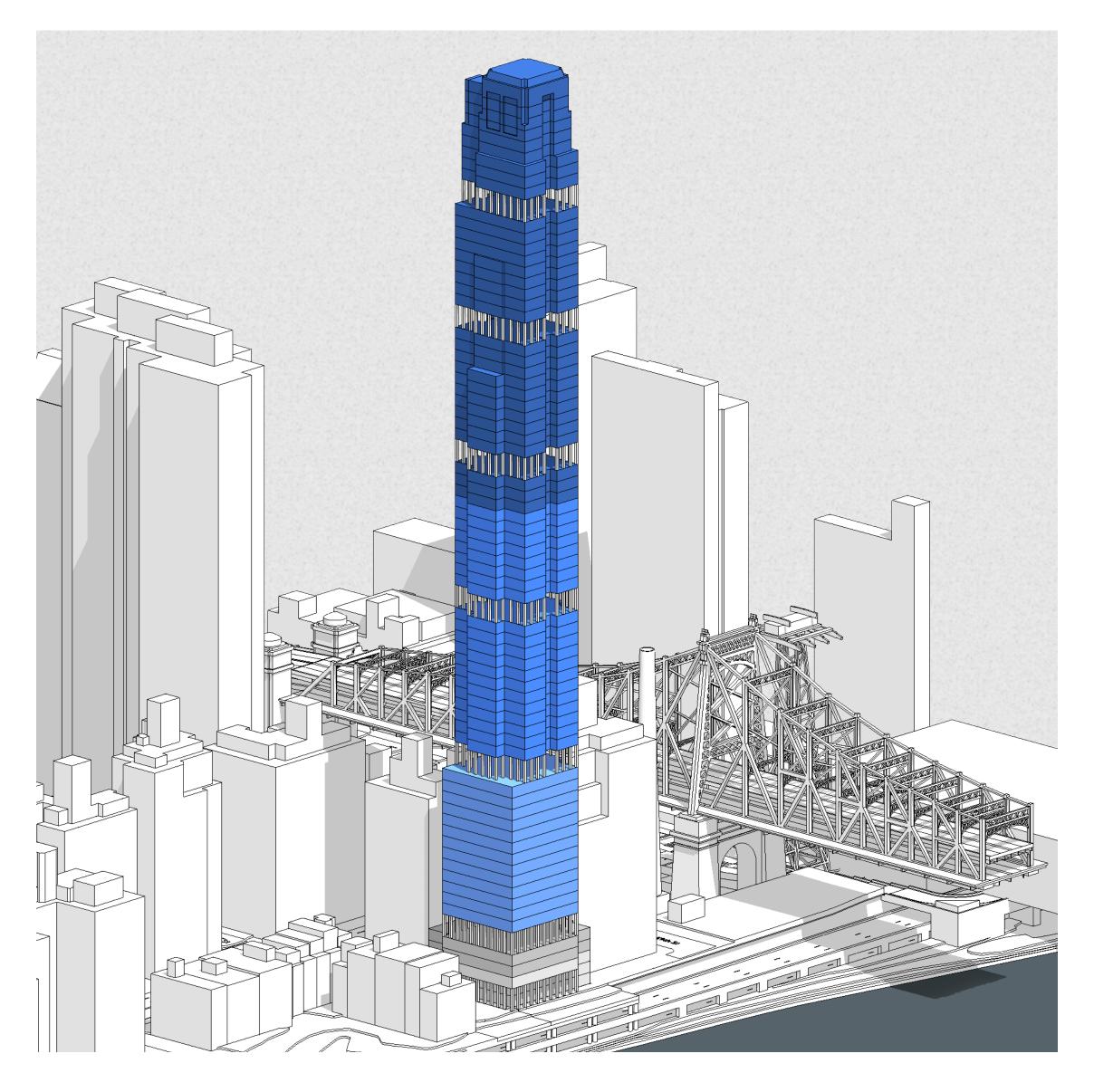
# CROUND FLOODE: FORBA



PART VI

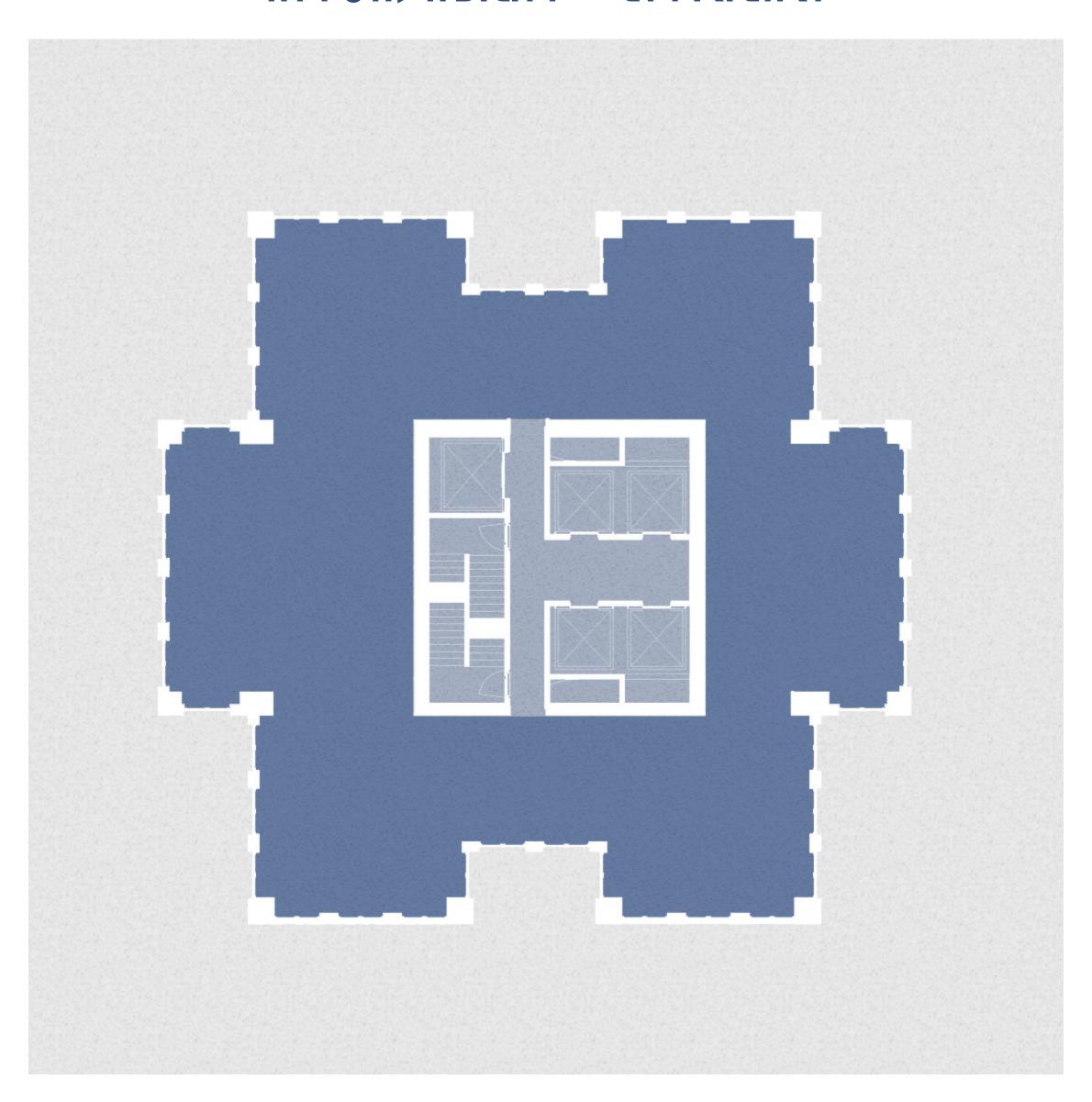
The Tower

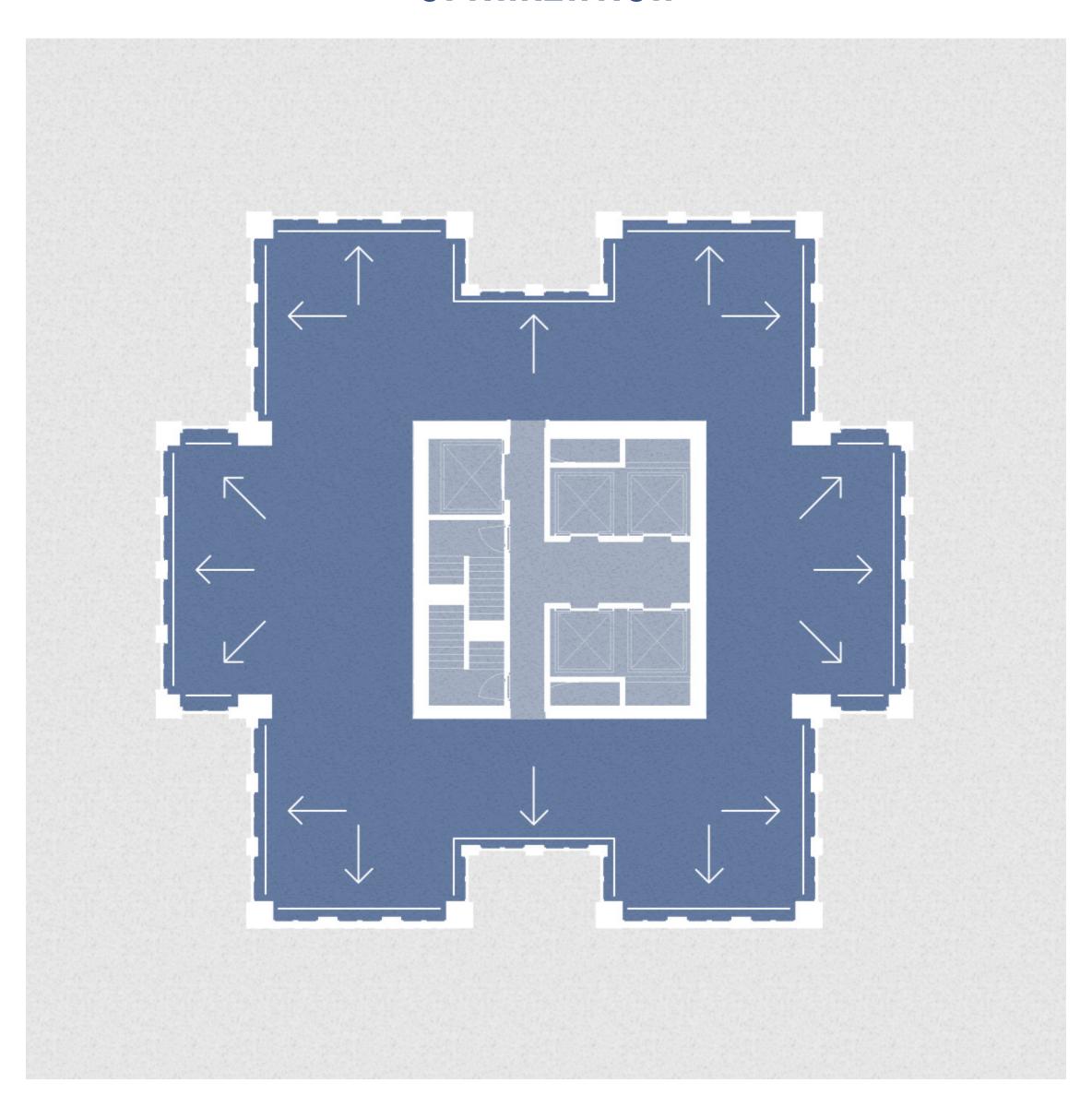
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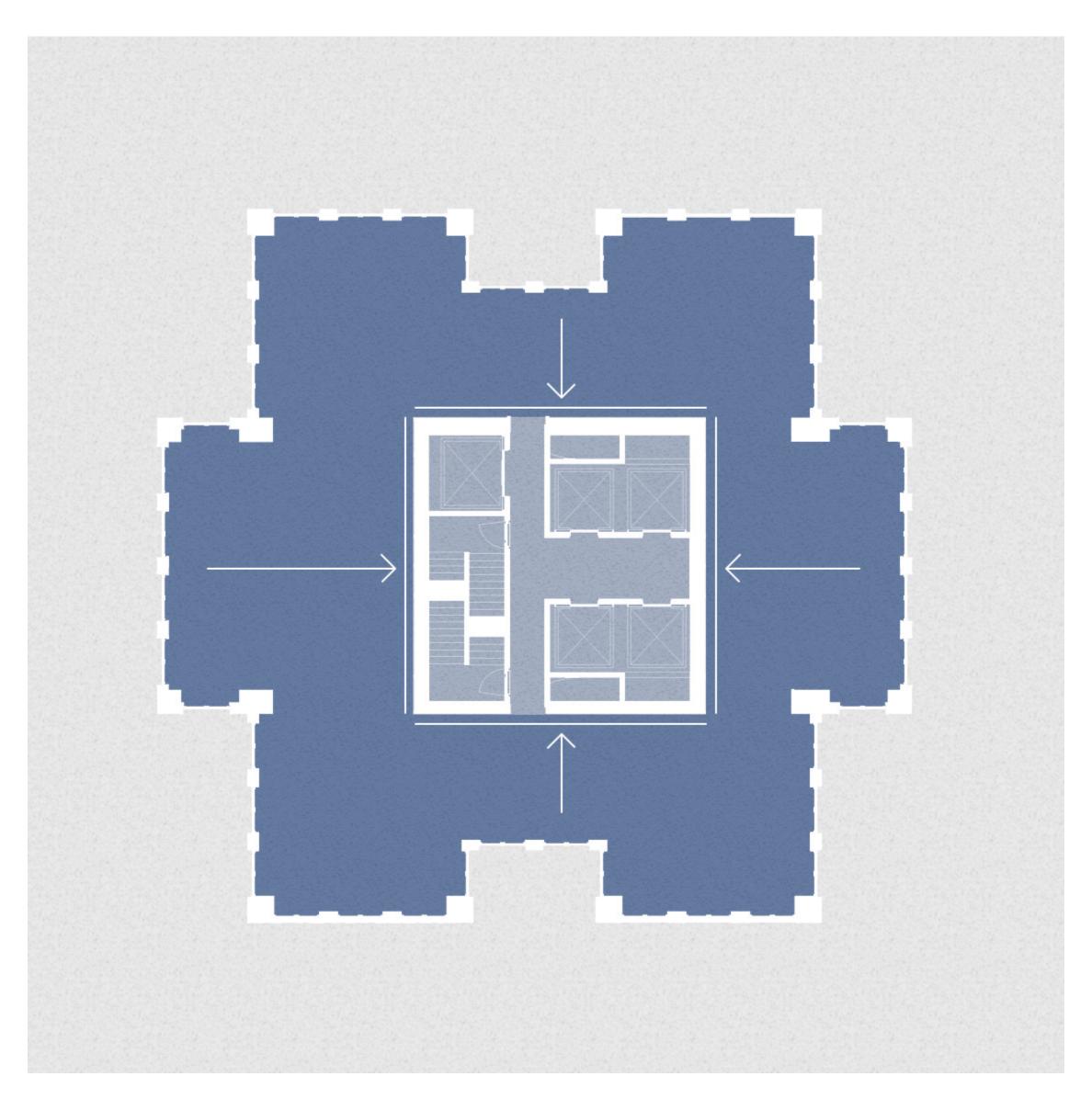


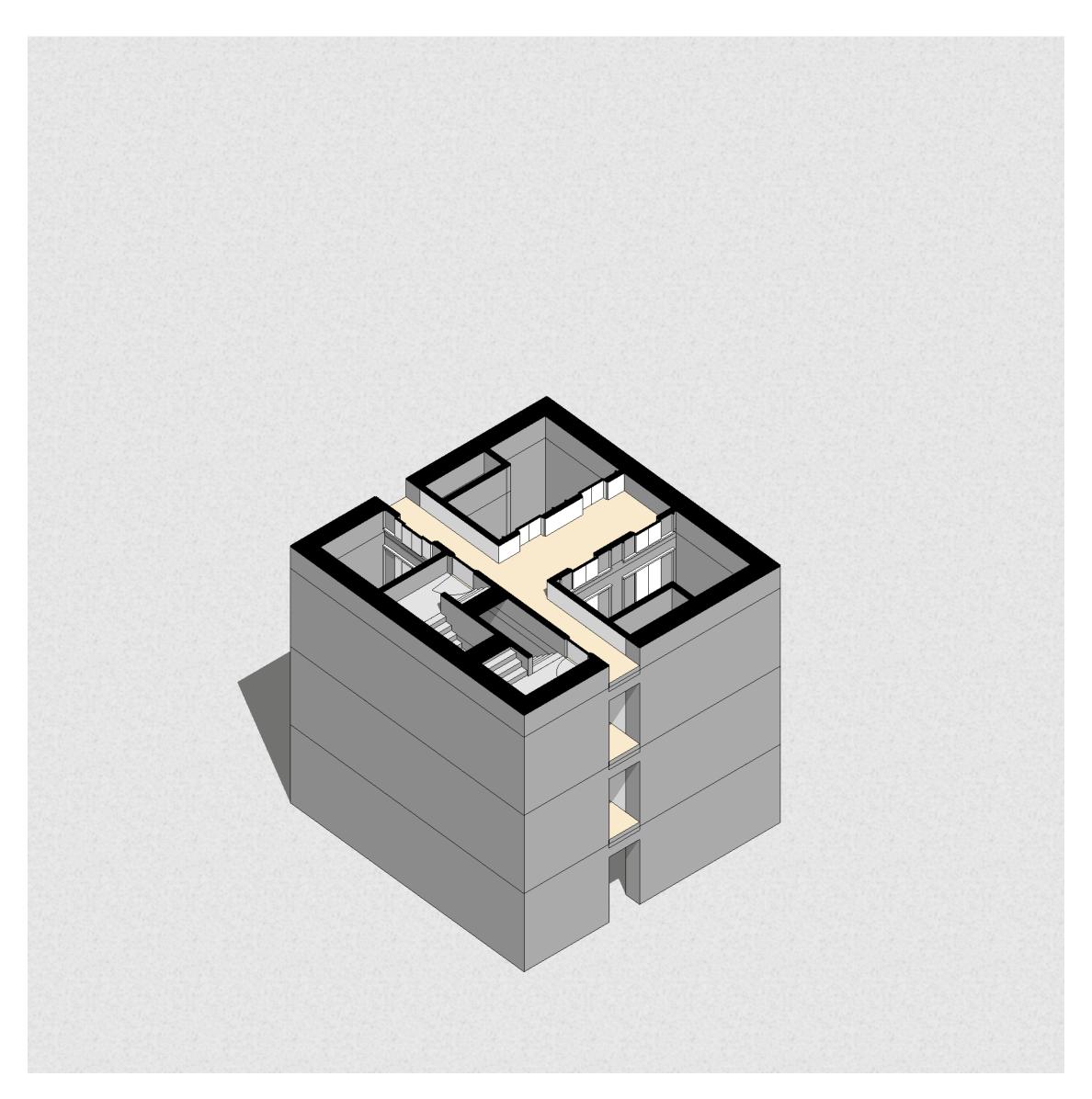
45%	Middle-Income
30%	Moderate Income
25%	Low Income

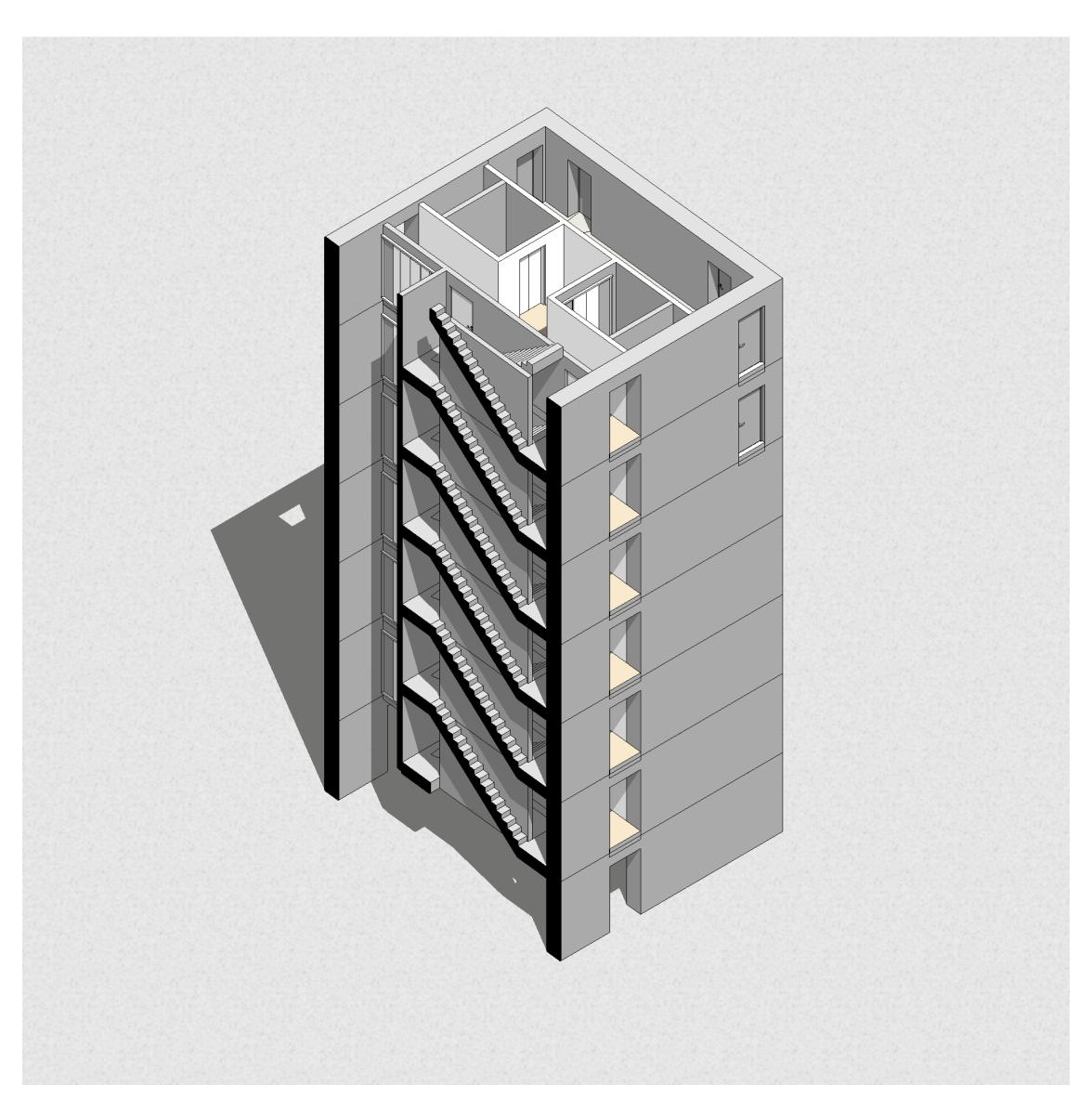
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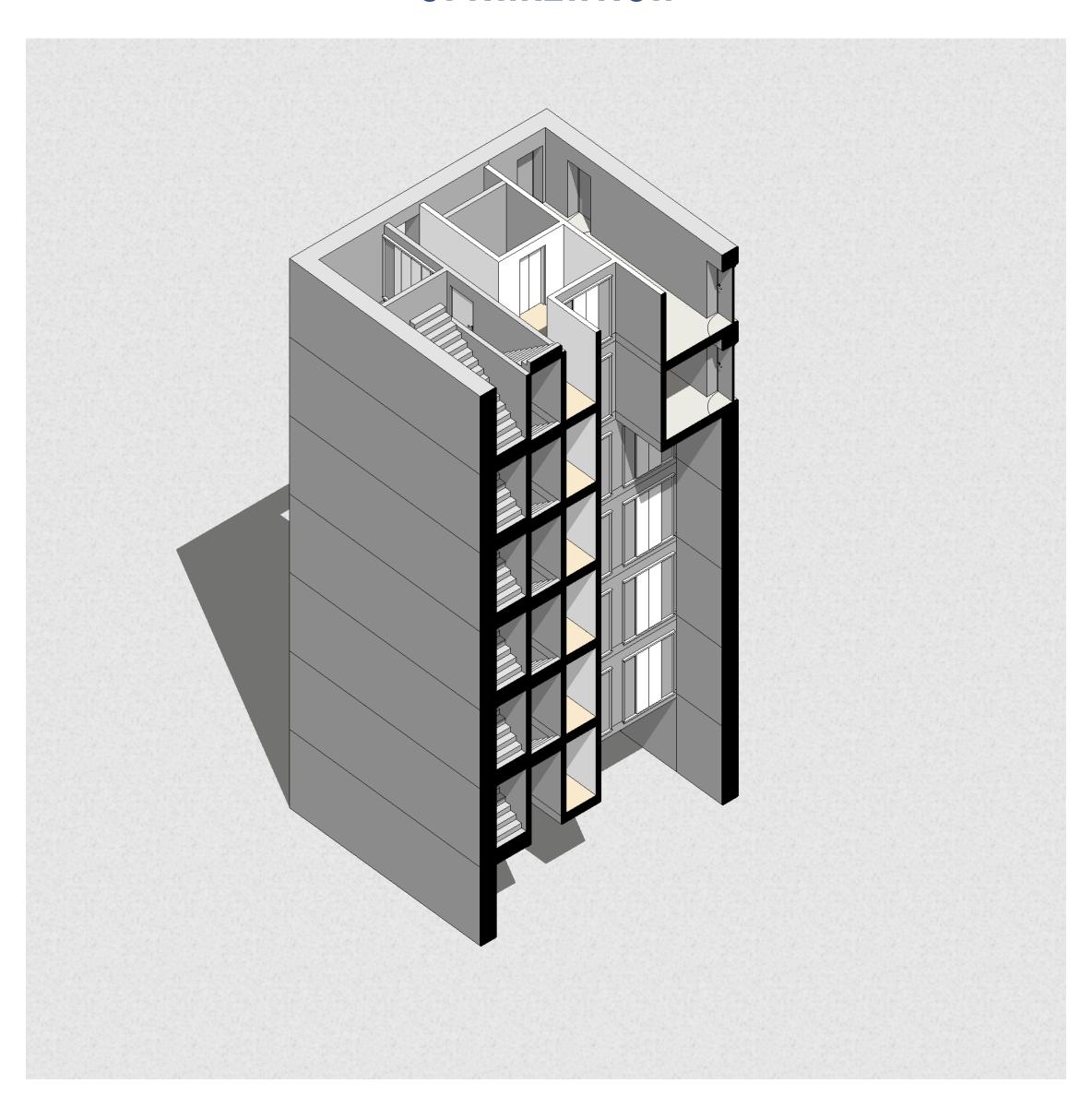










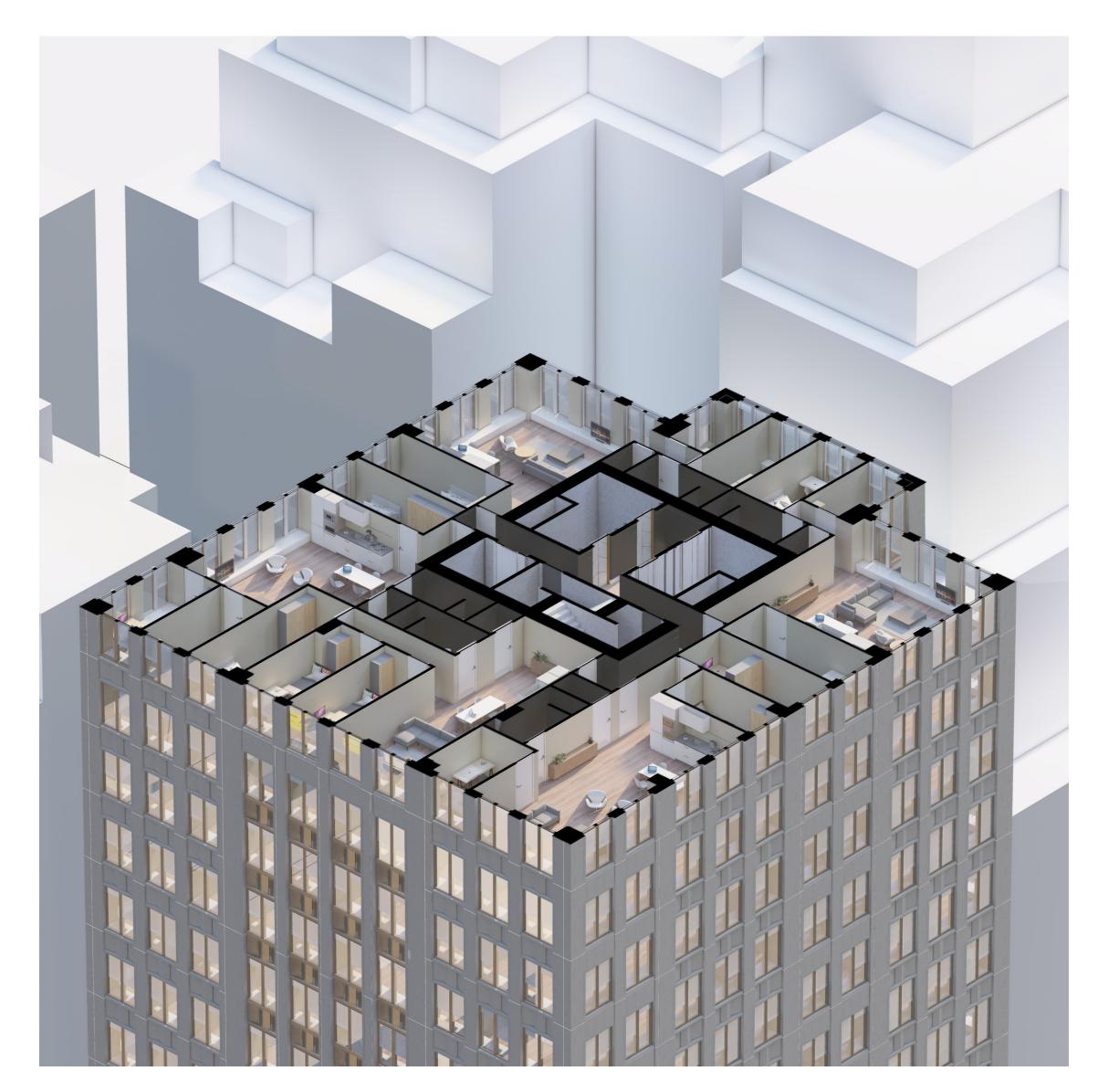


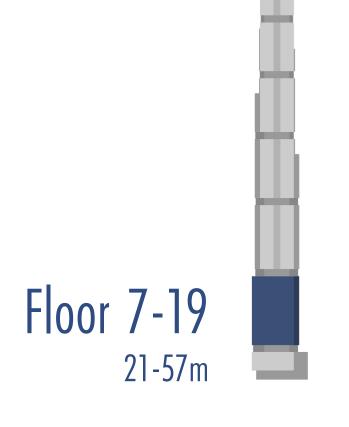
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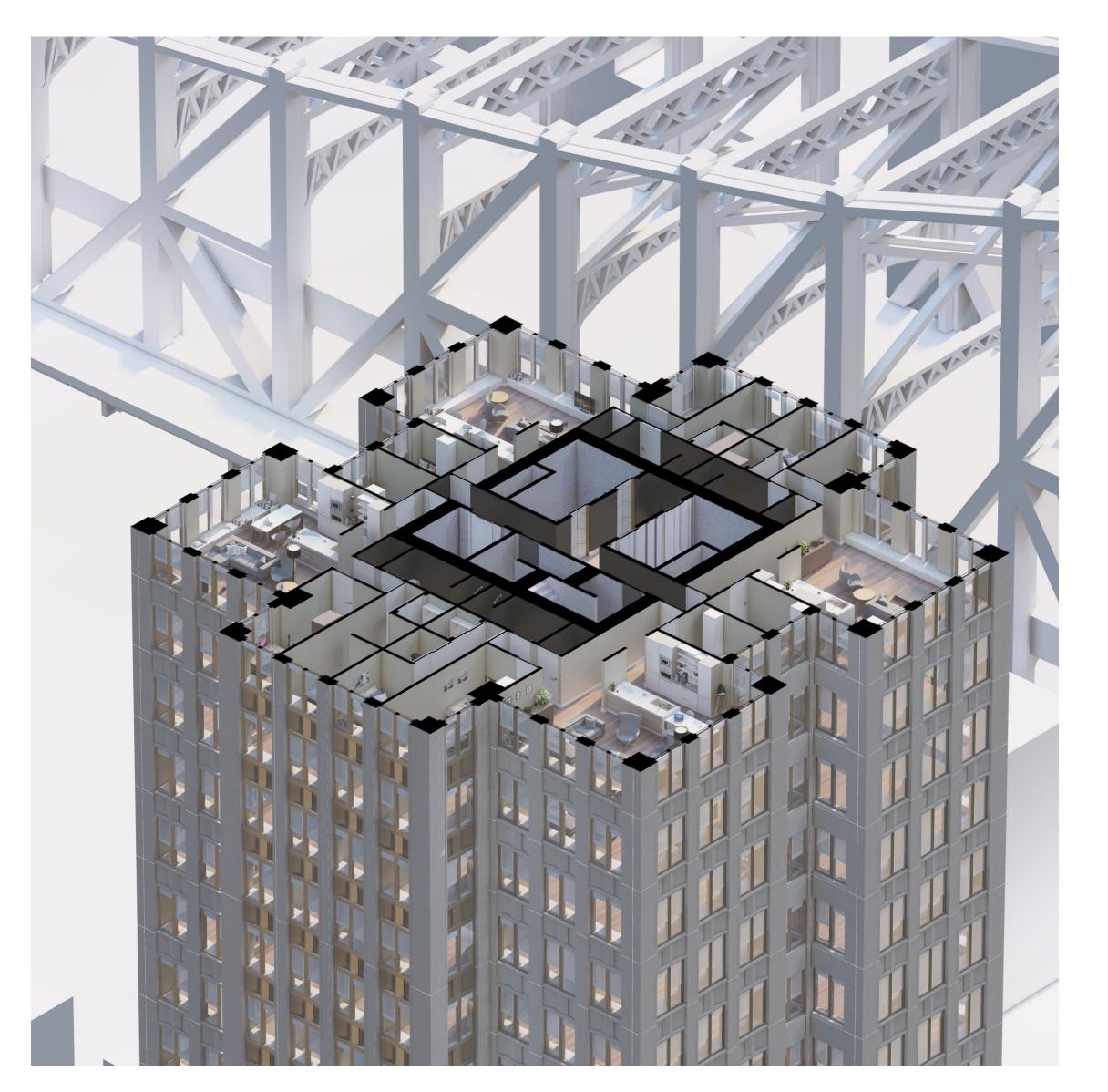


#### TYPICAL FLOOPDIAN: UPTATUENT? &



Floor 22-43 66-129m

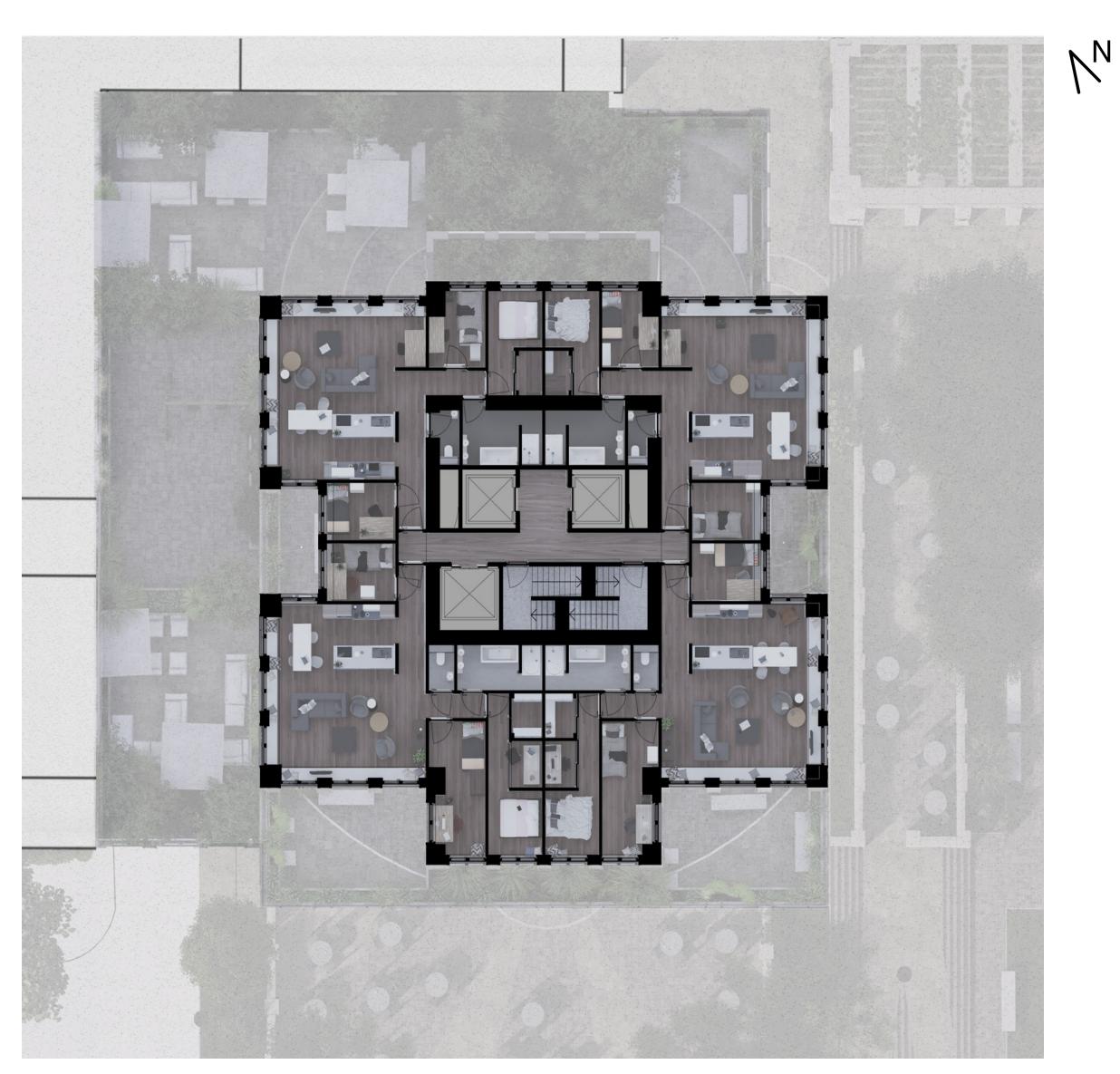
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Floor 22-43 66-129m

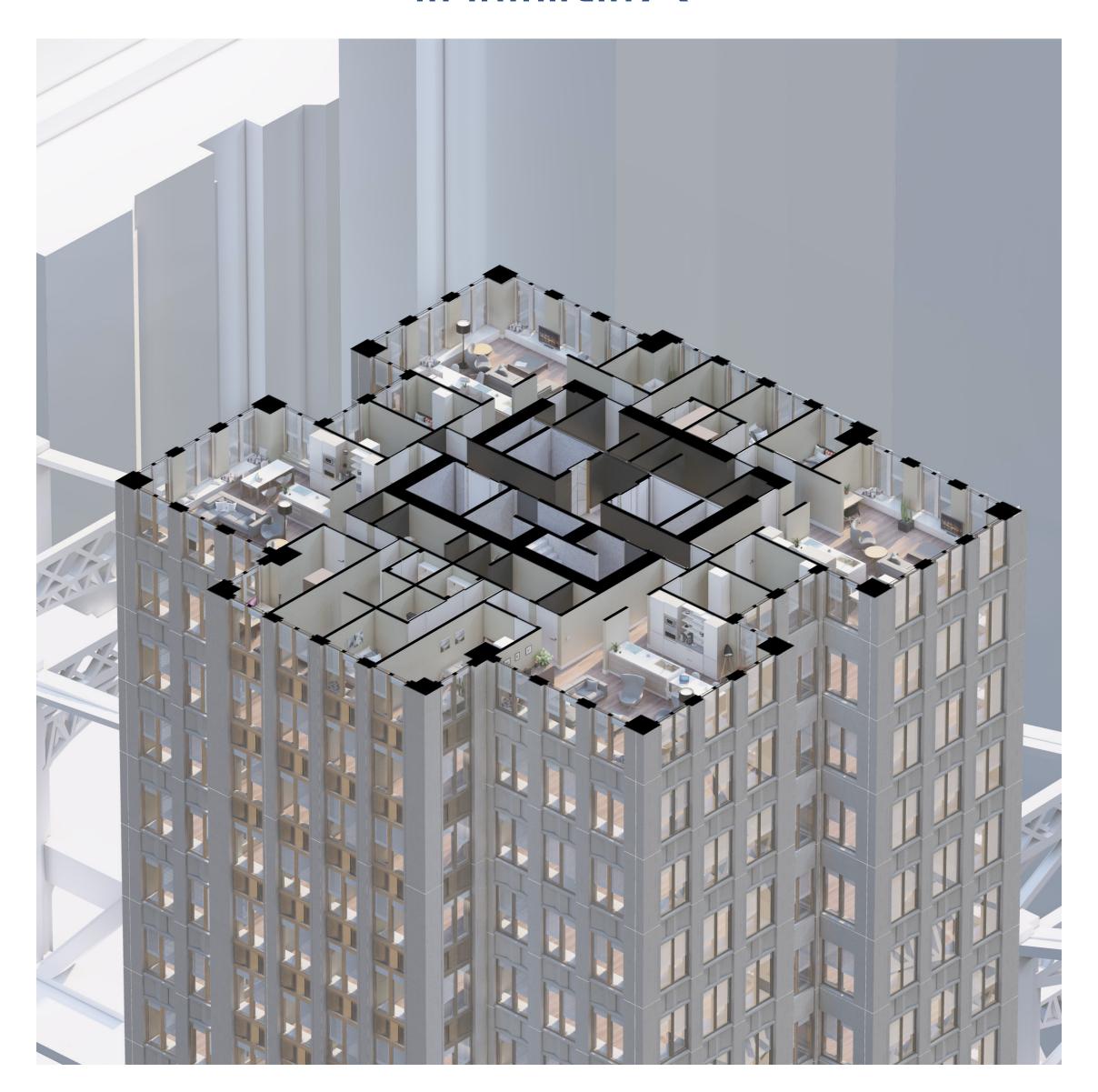


#### TYPICAL FLOOPDIAN: UPTATUENT? (



Floor 44-55 132-165m

### ) SINJMTAAA

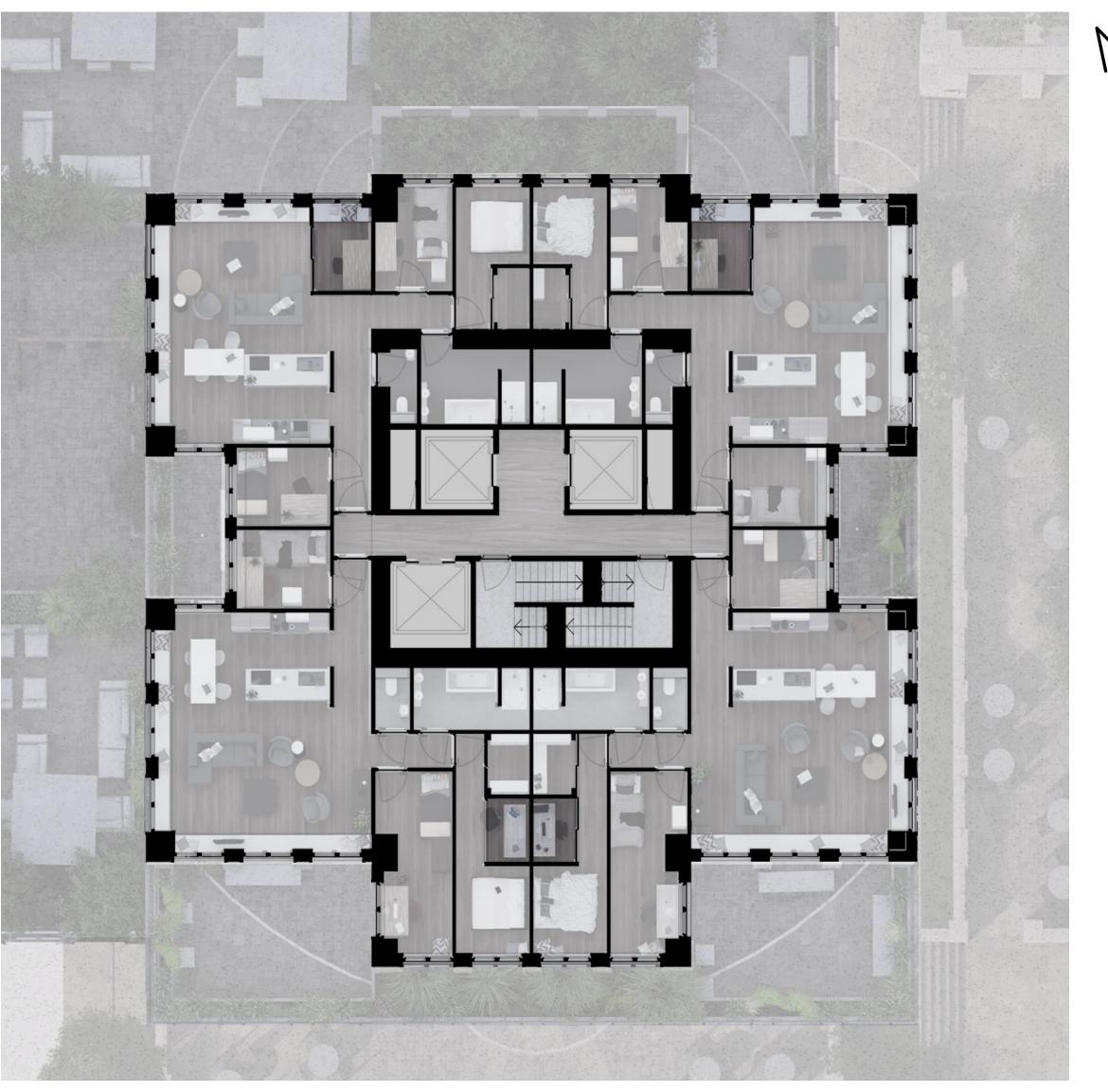




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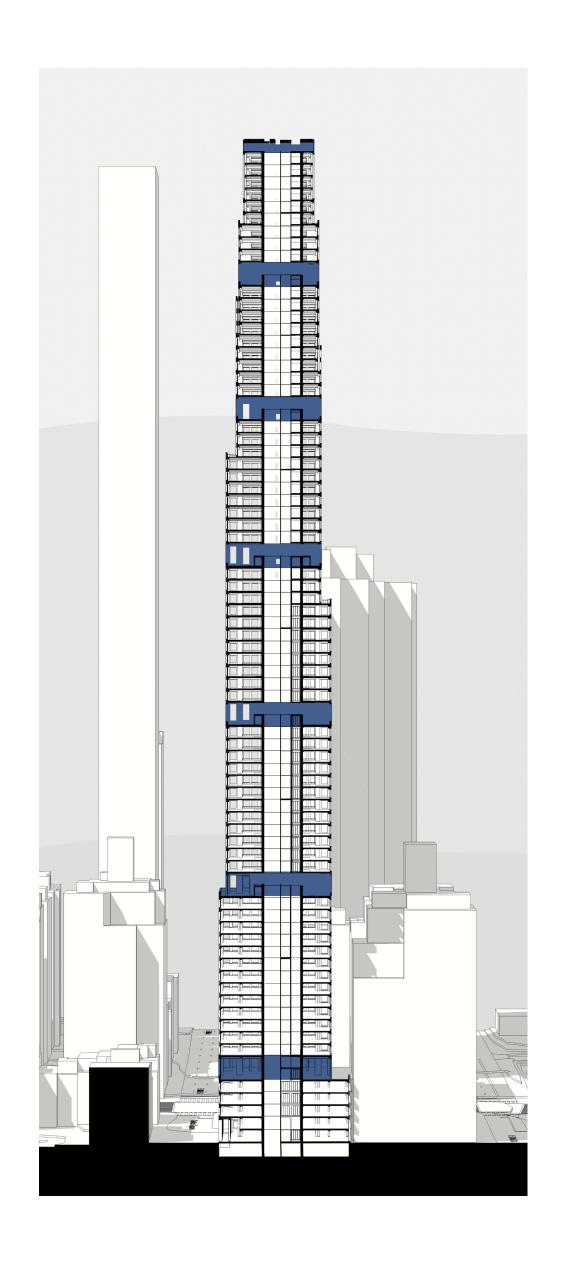
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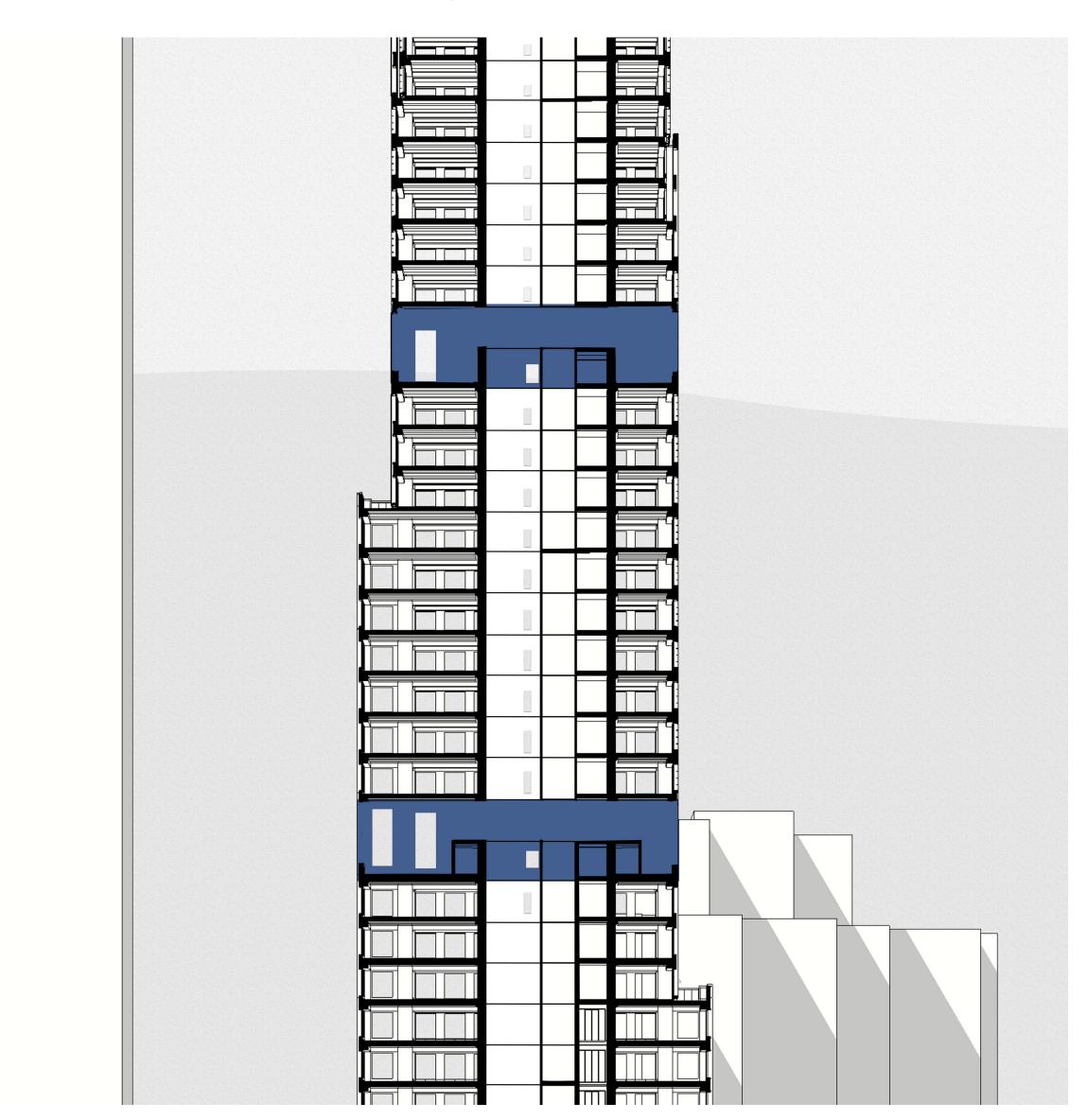


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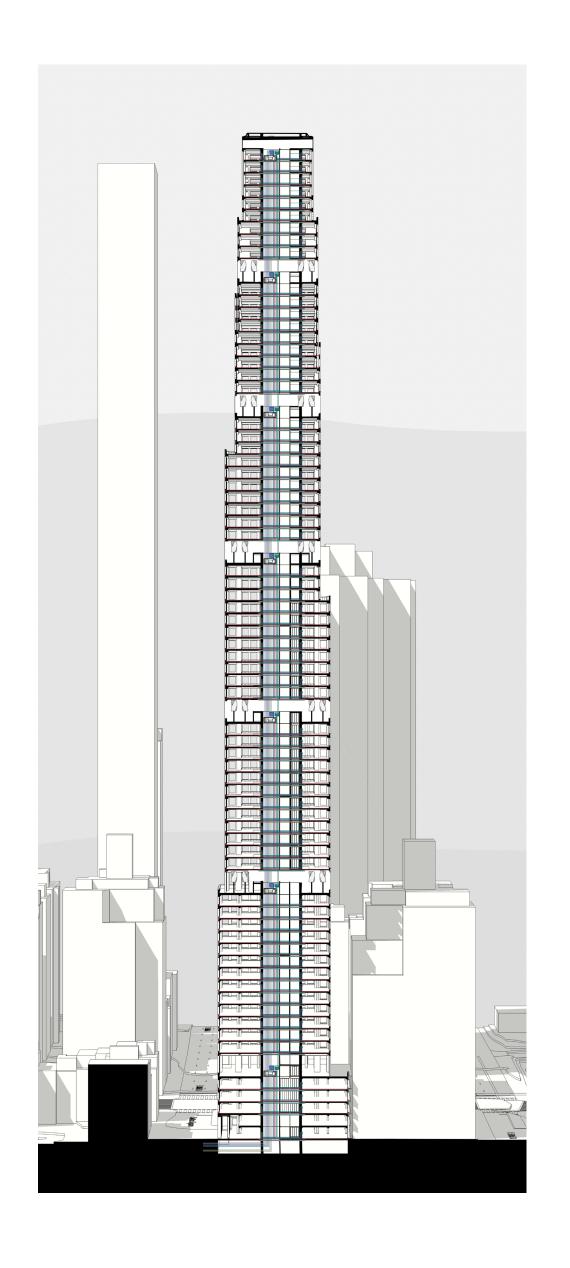
Building Technology

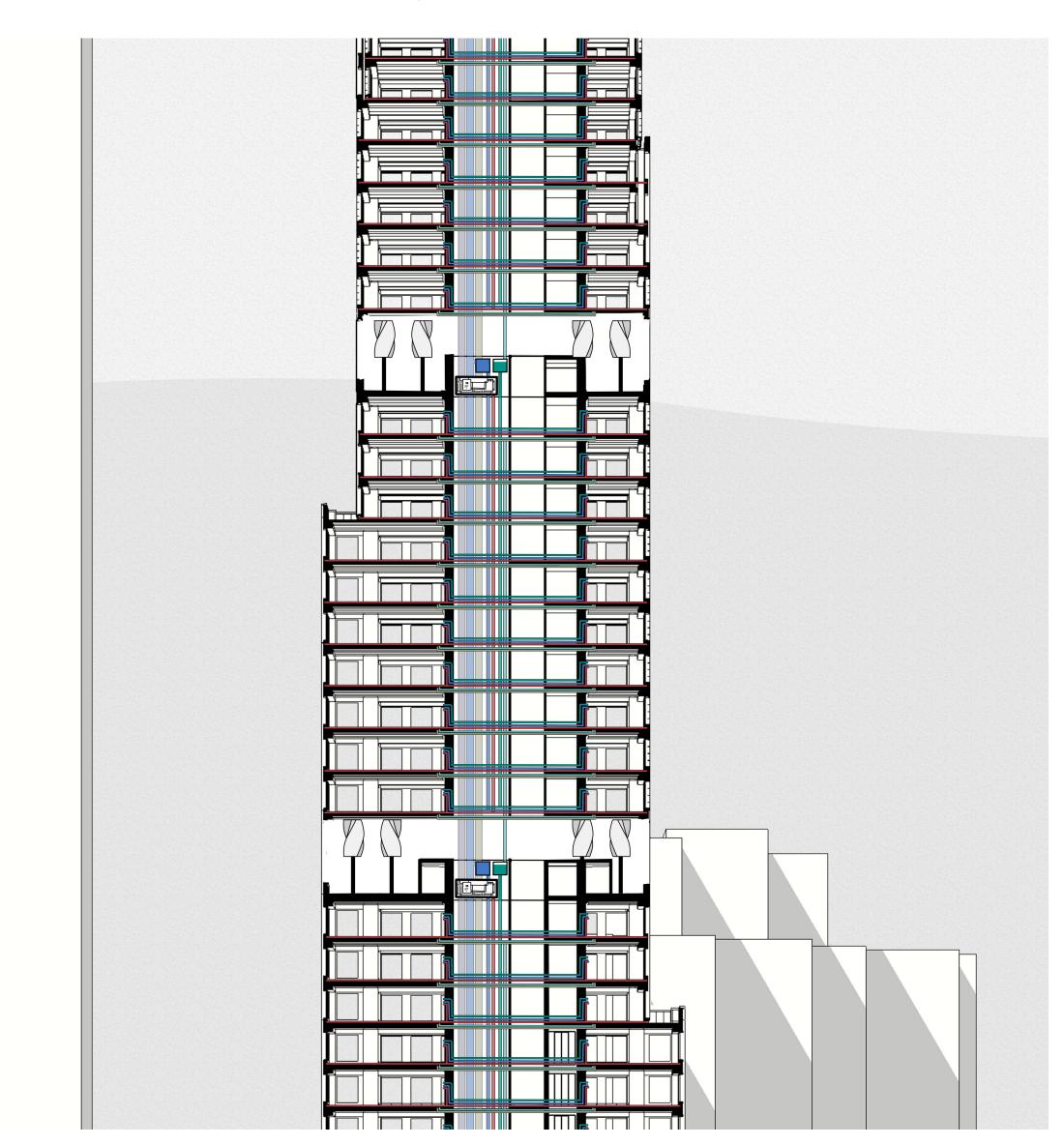
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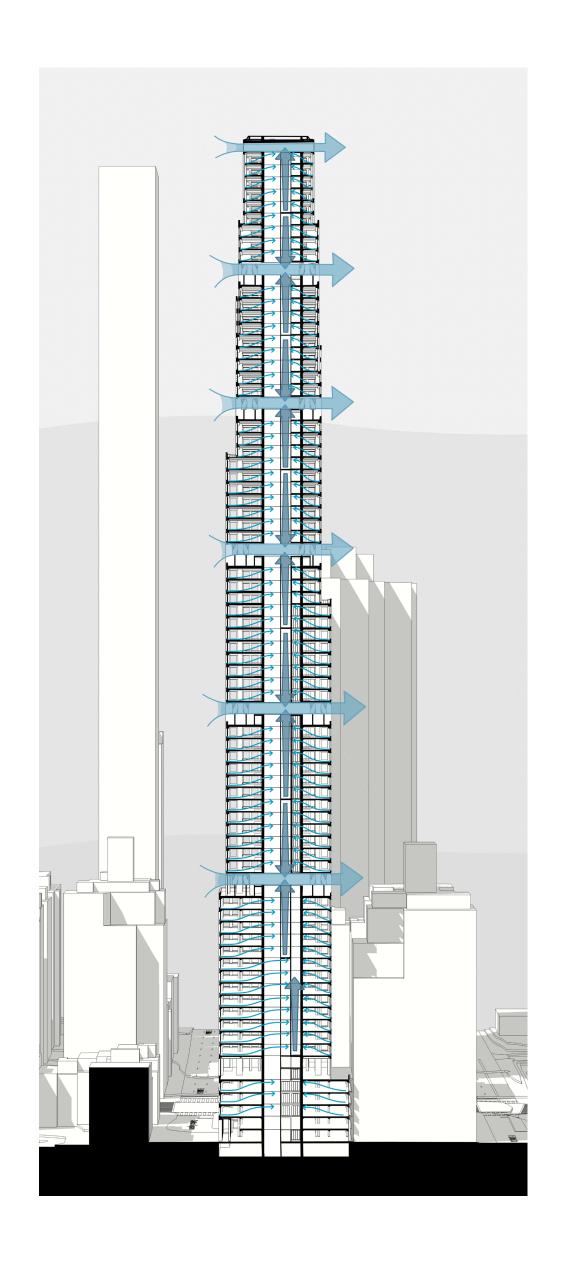


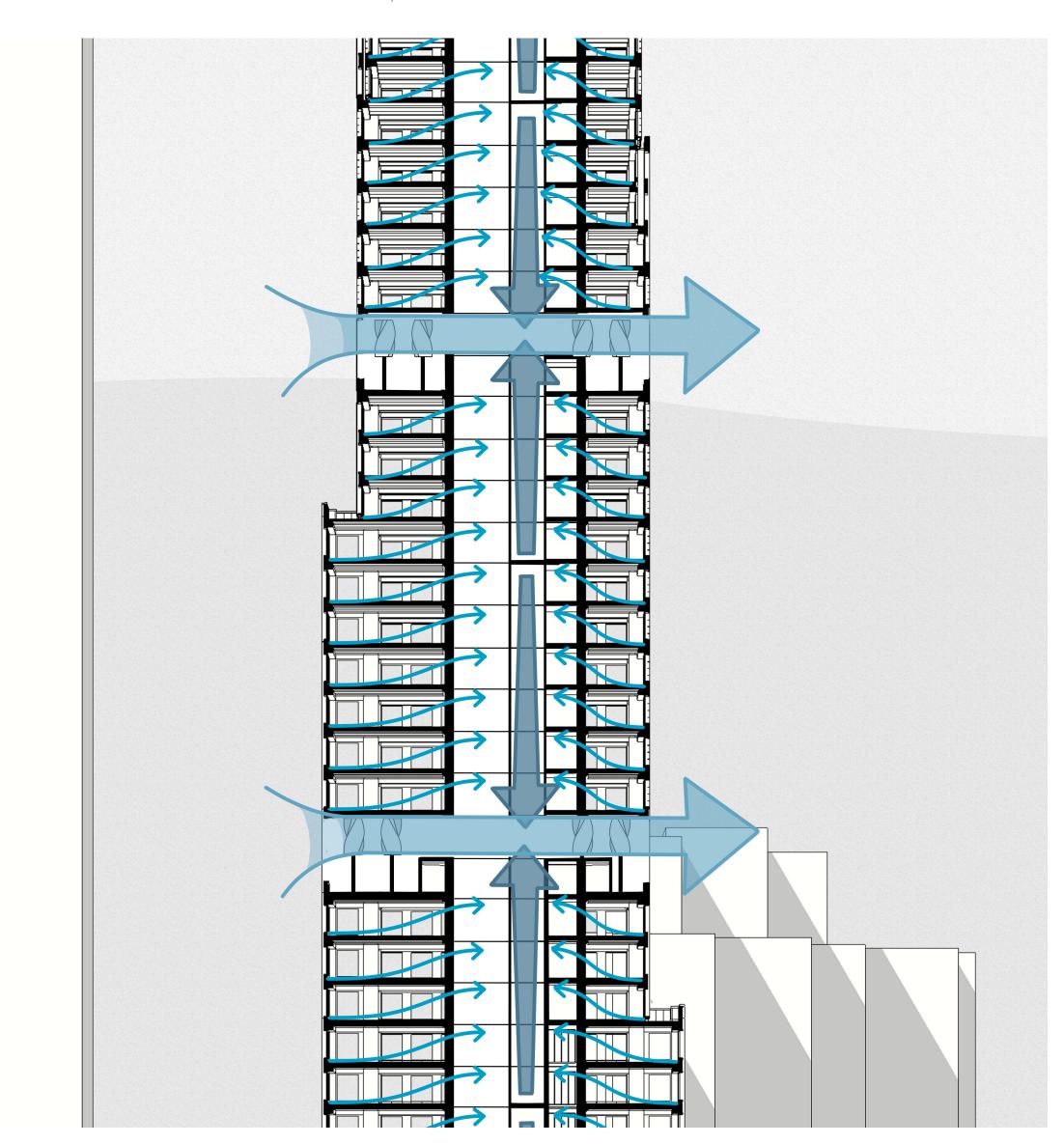
#### SECULENTATION



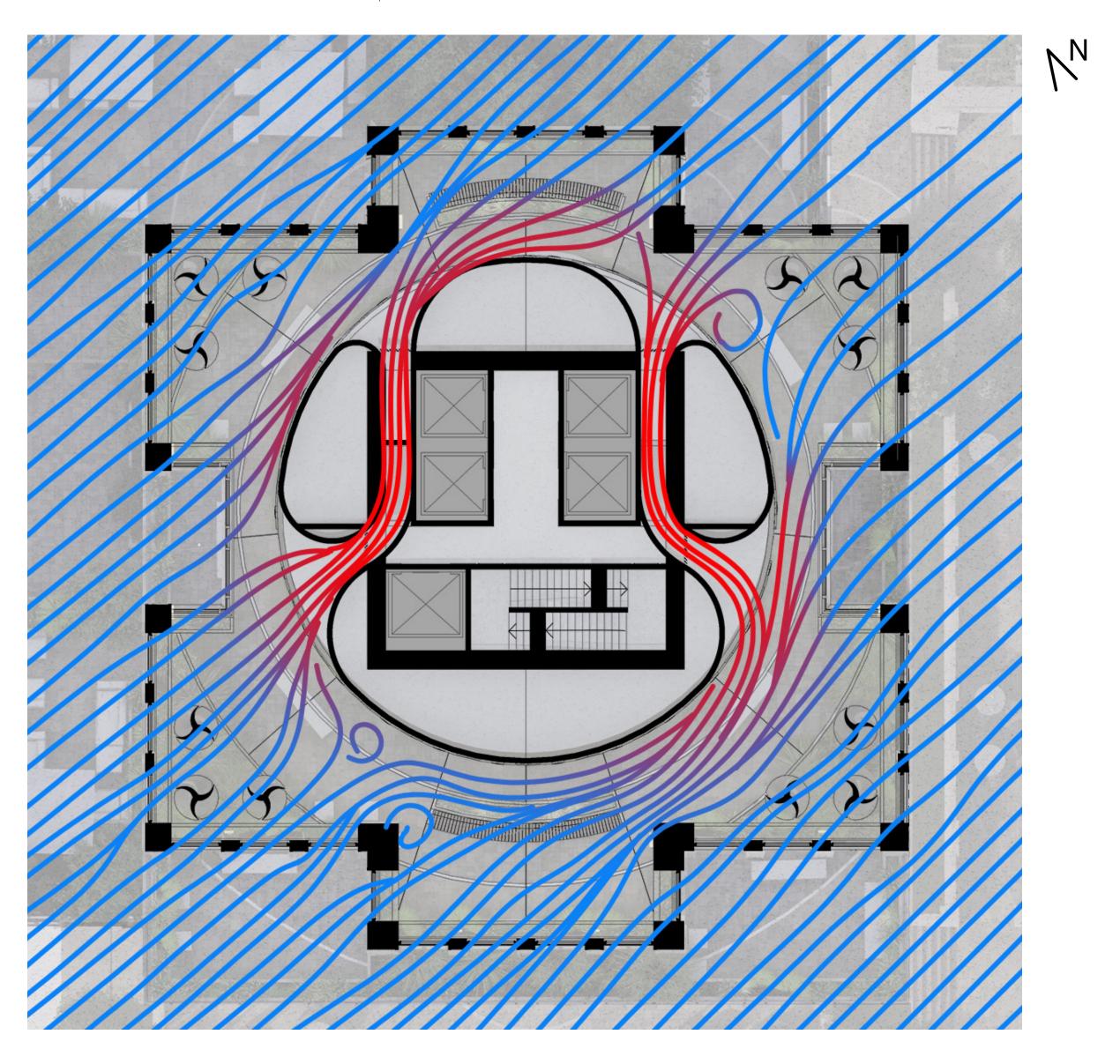


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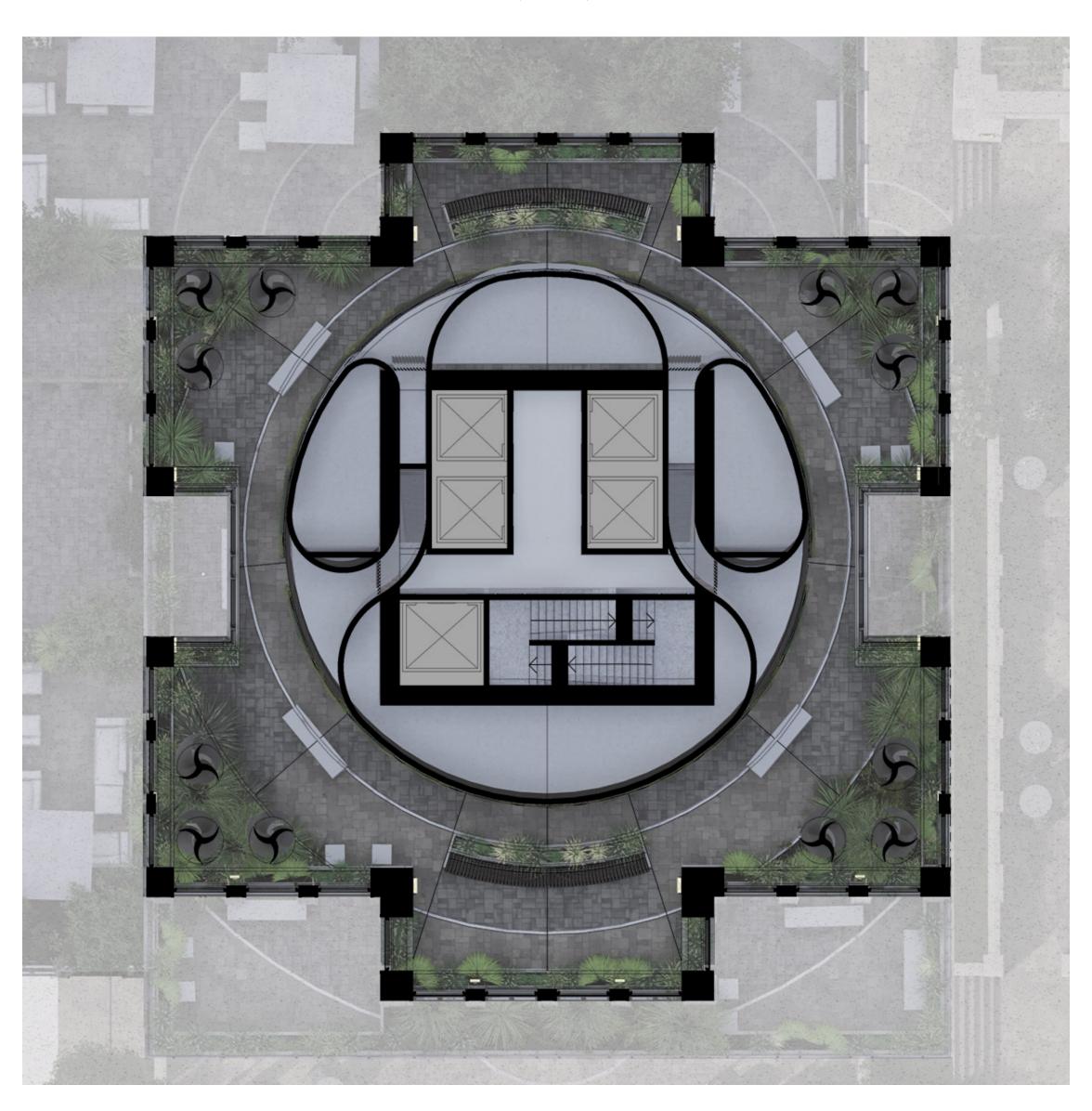




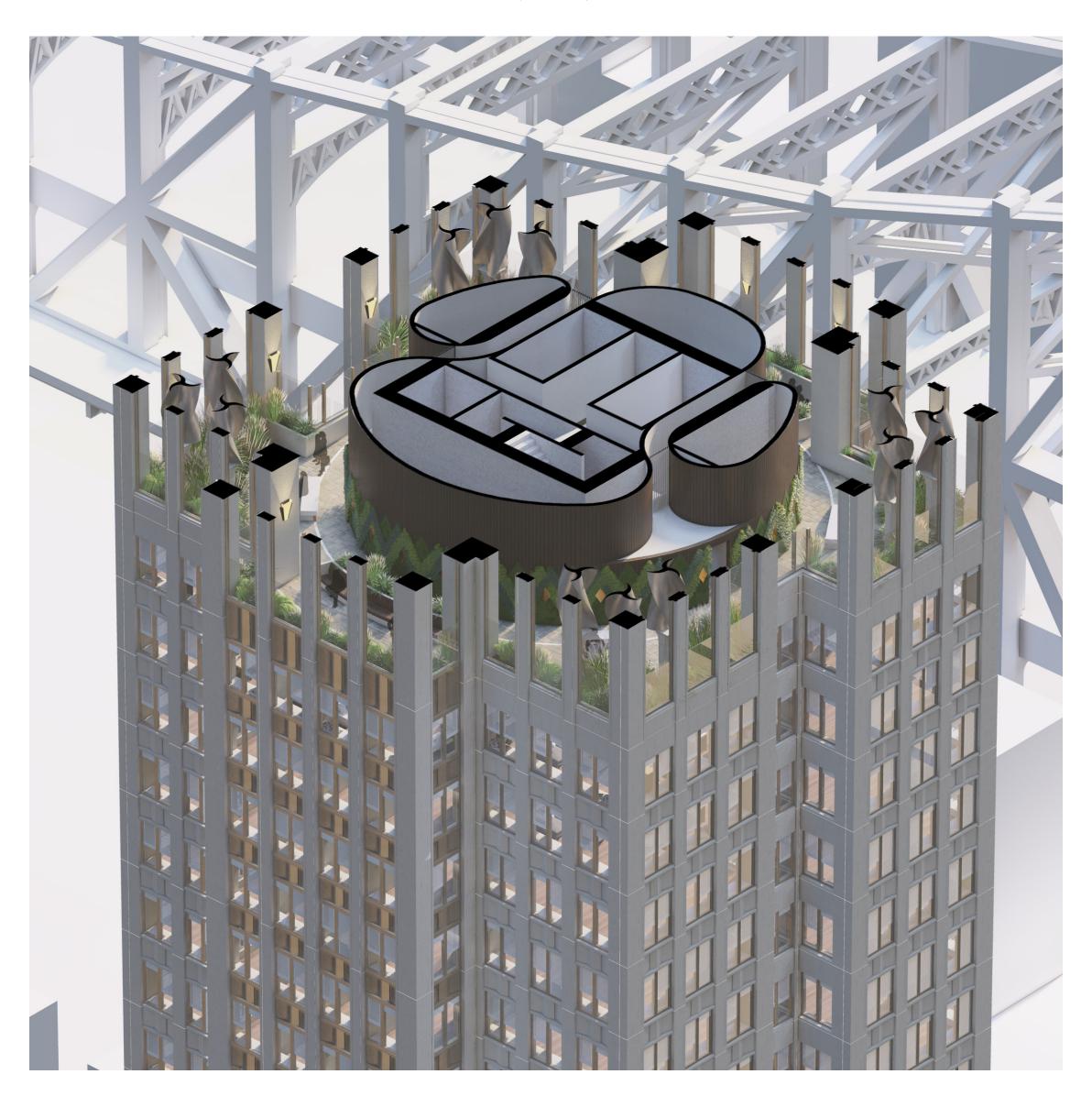
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# SKA CUBDENS



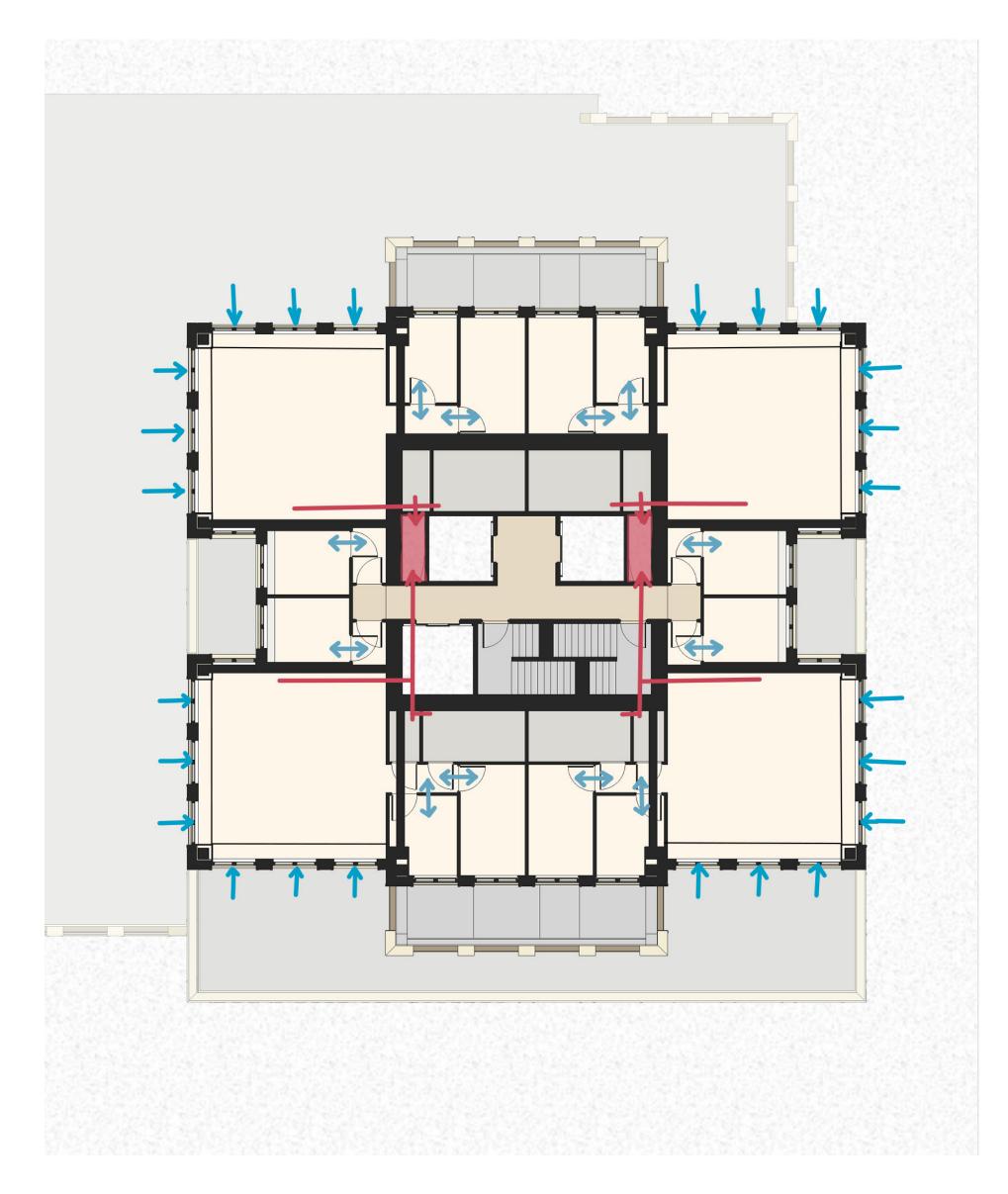
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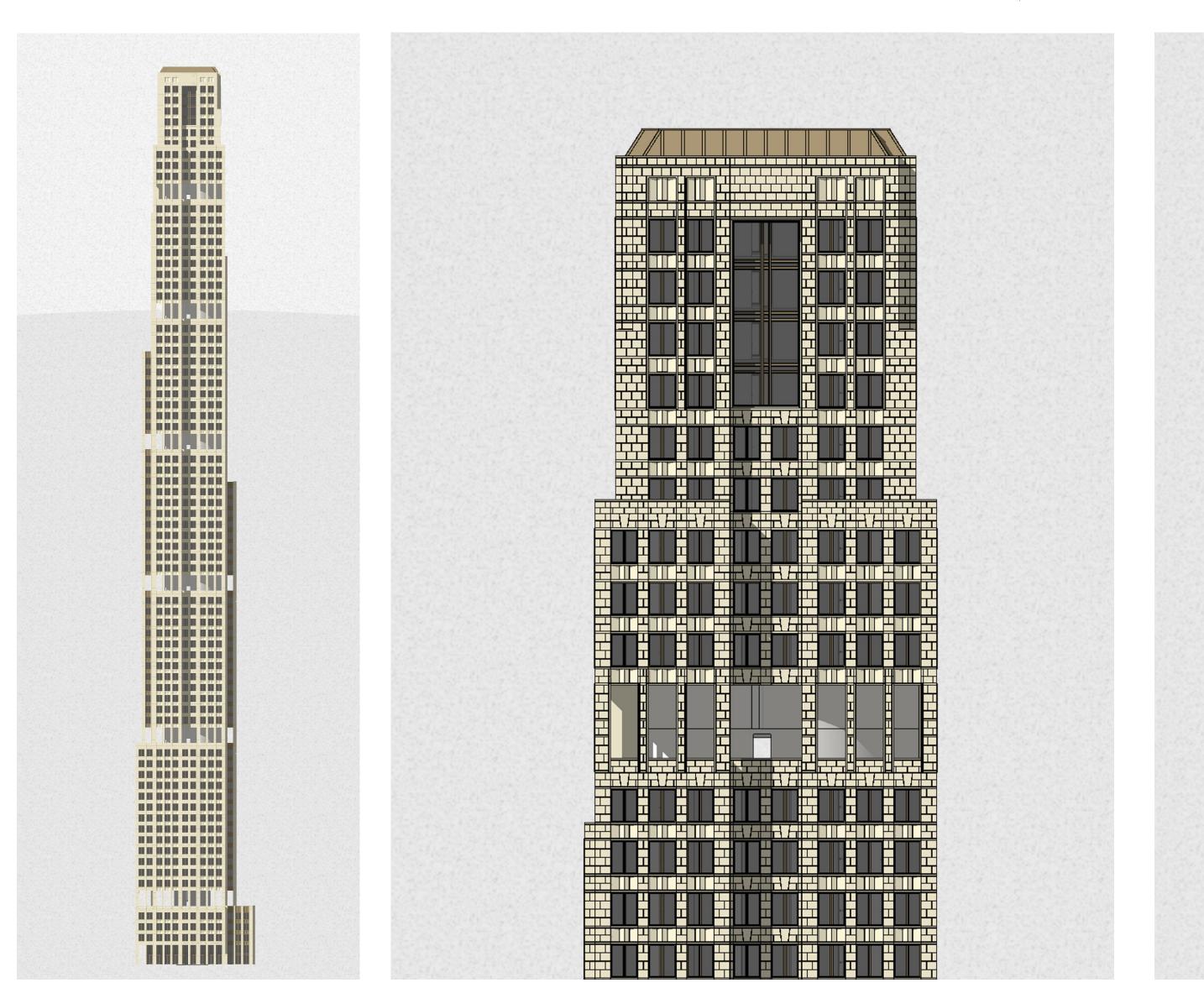


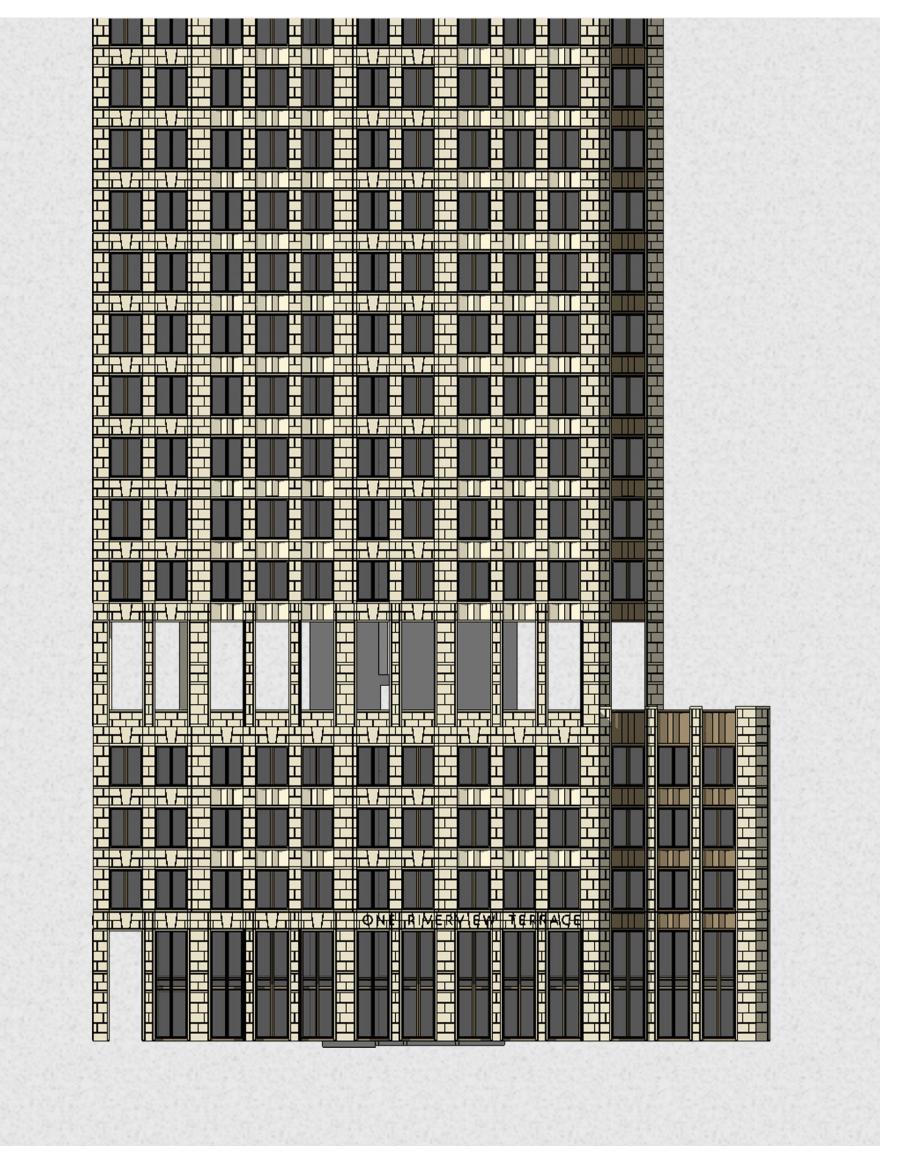


# WINDOWS

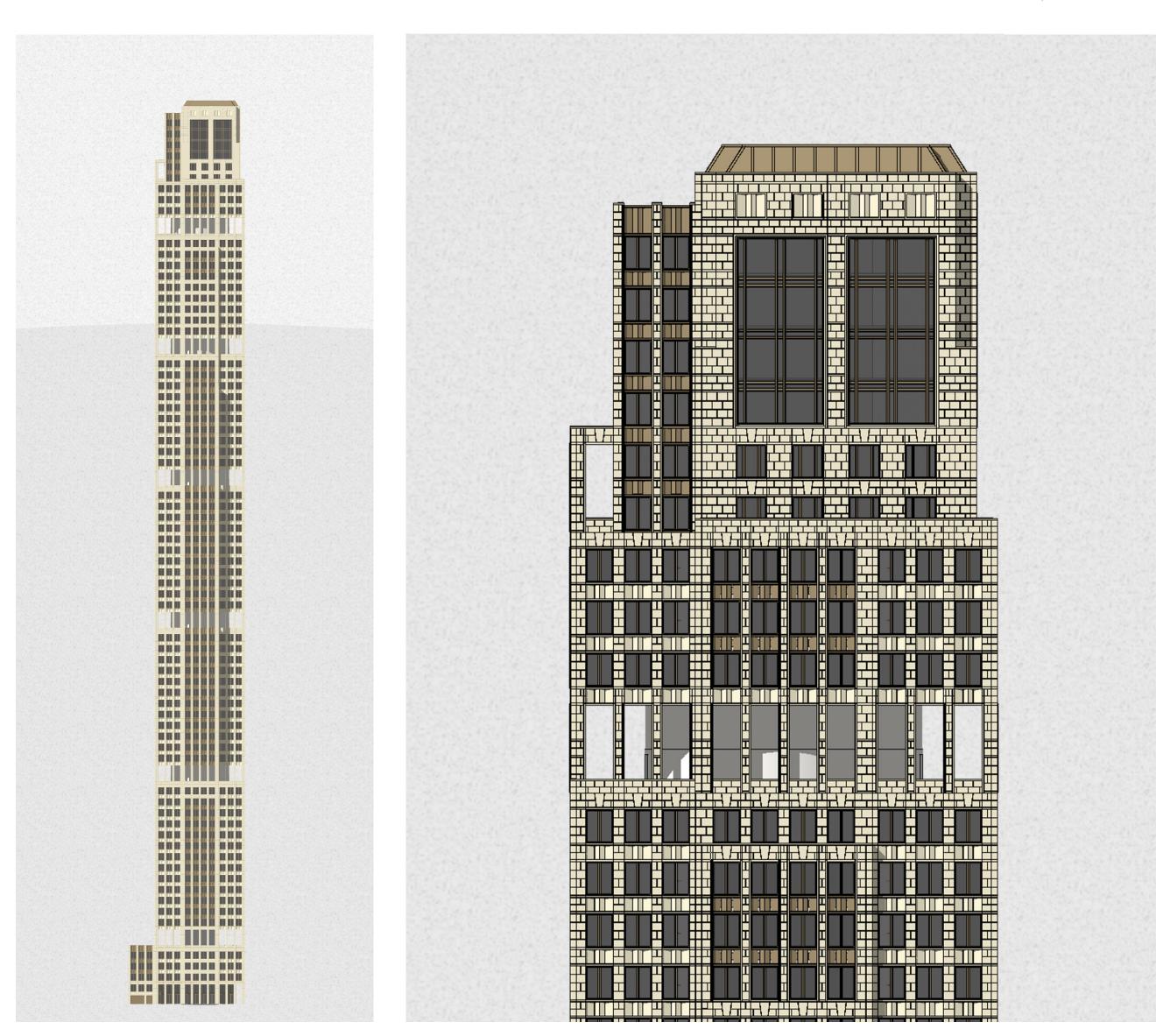


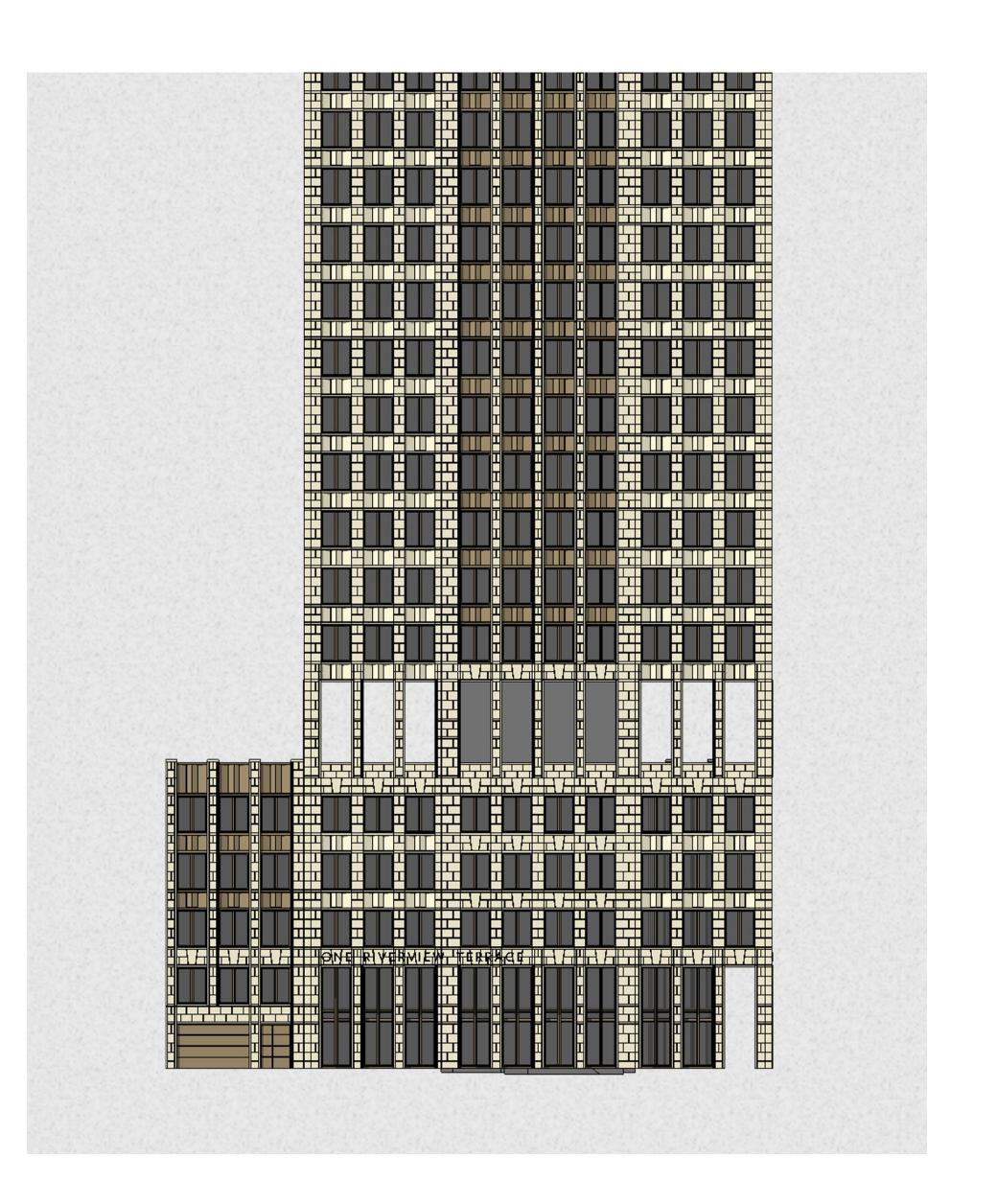
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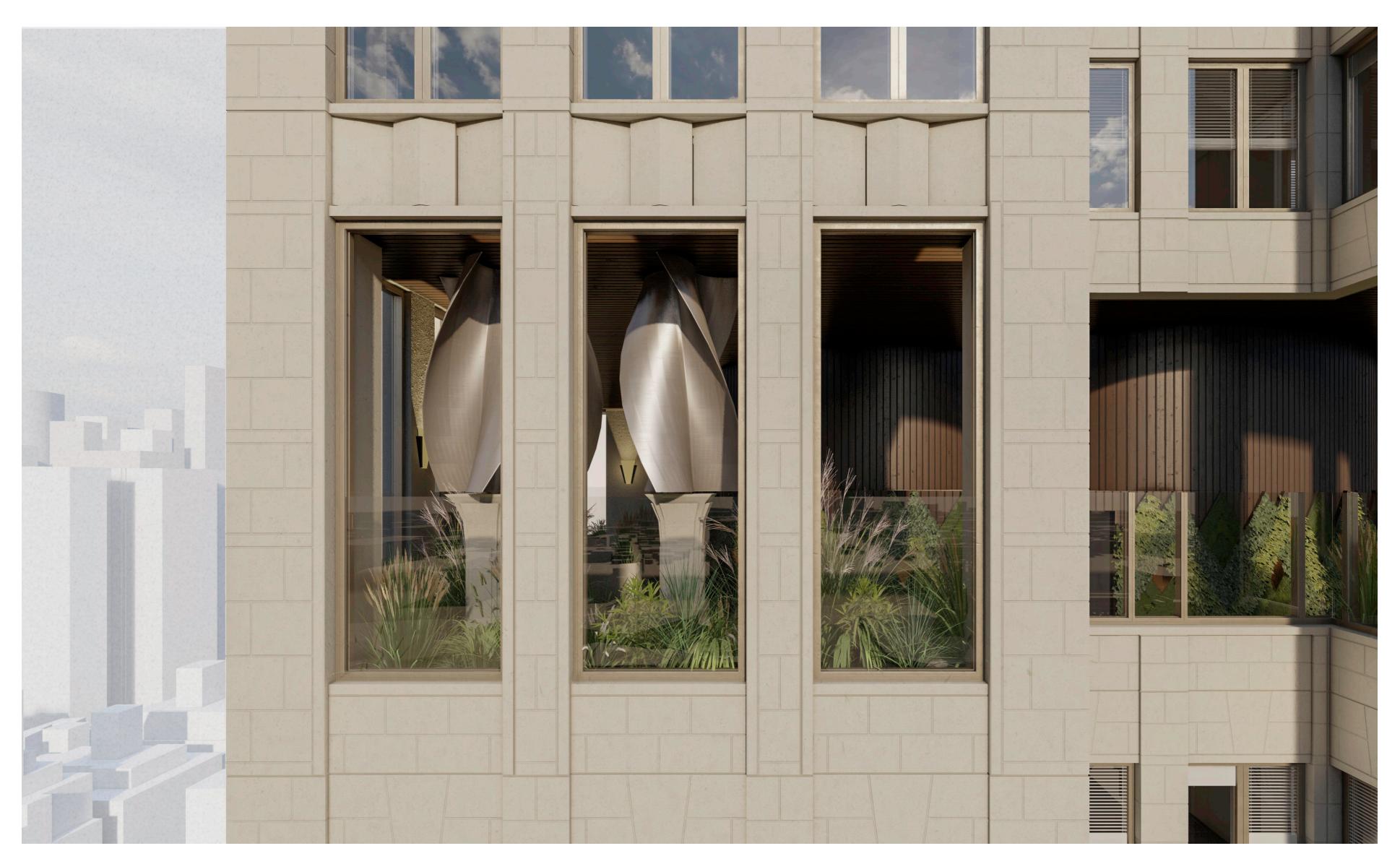












#### PANELIZATION



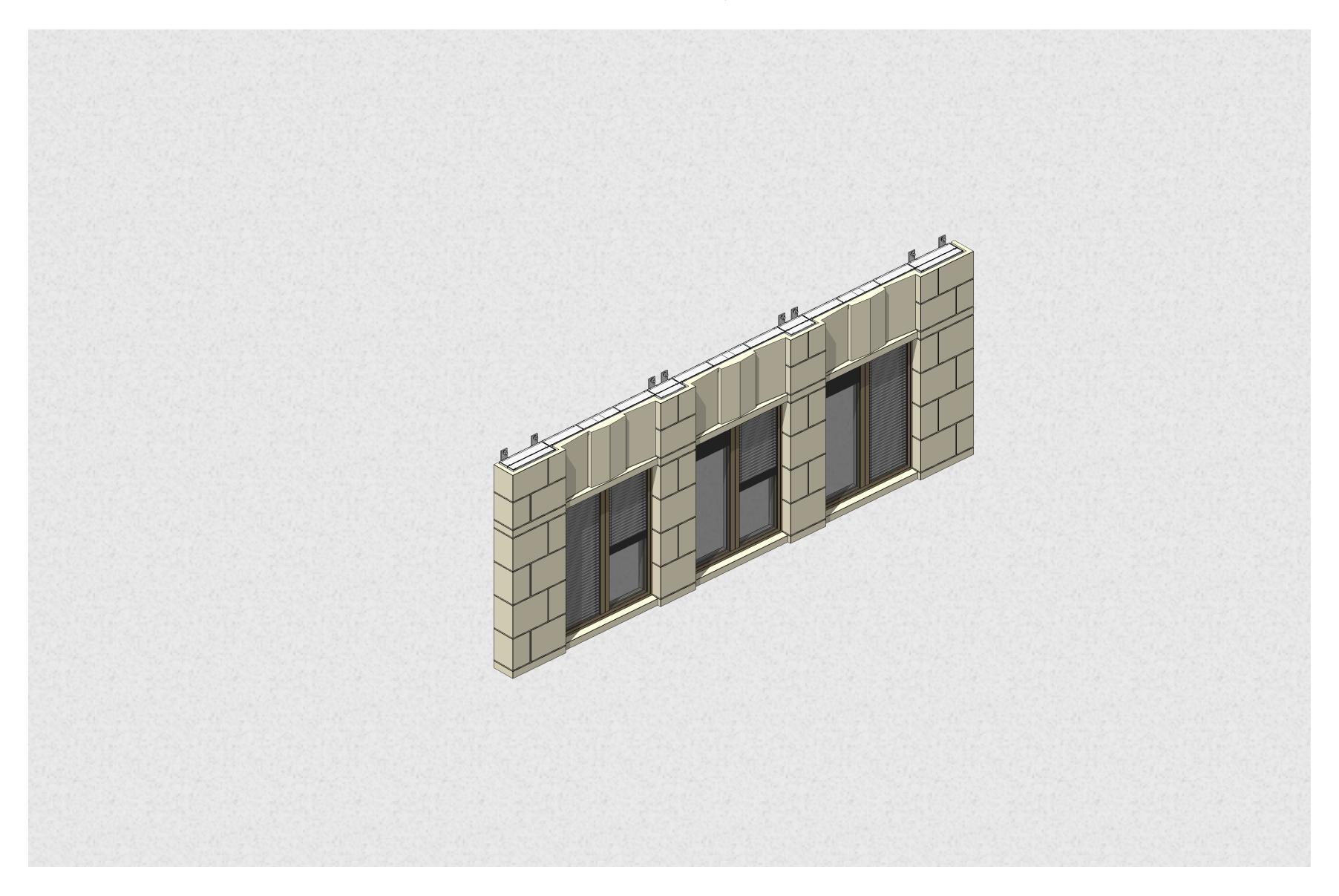
#### PANELIZATION



#### PANELIZATION



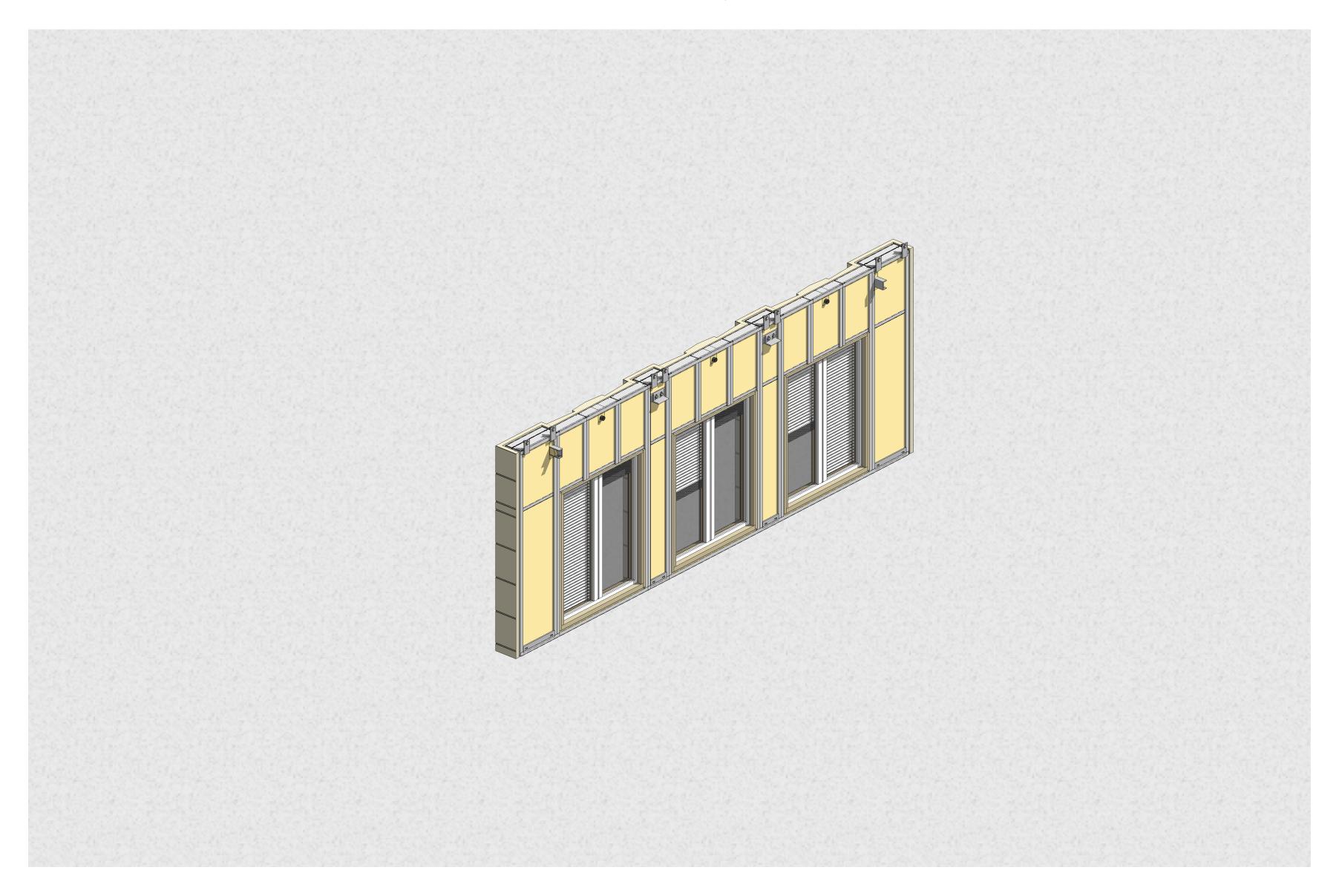
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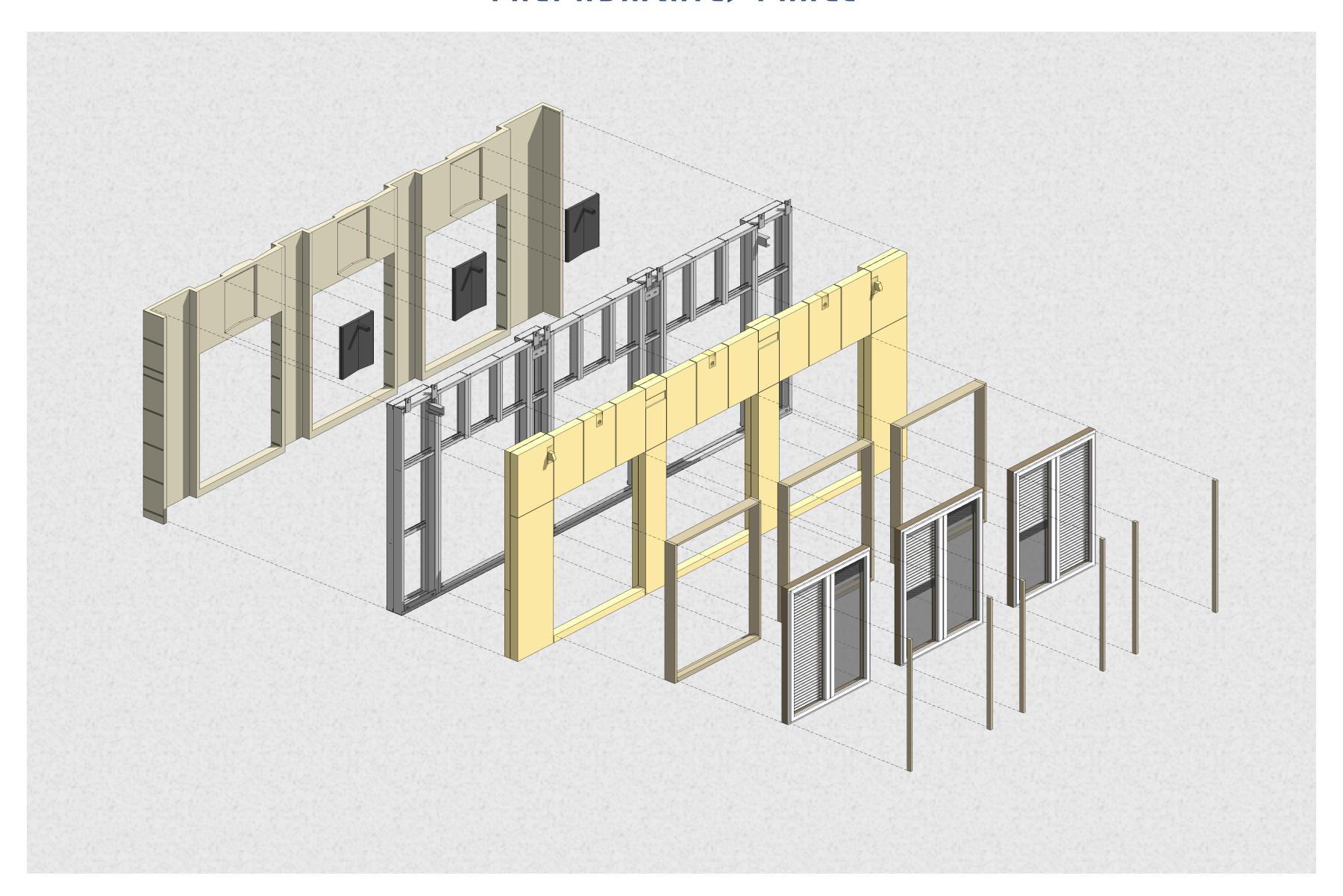
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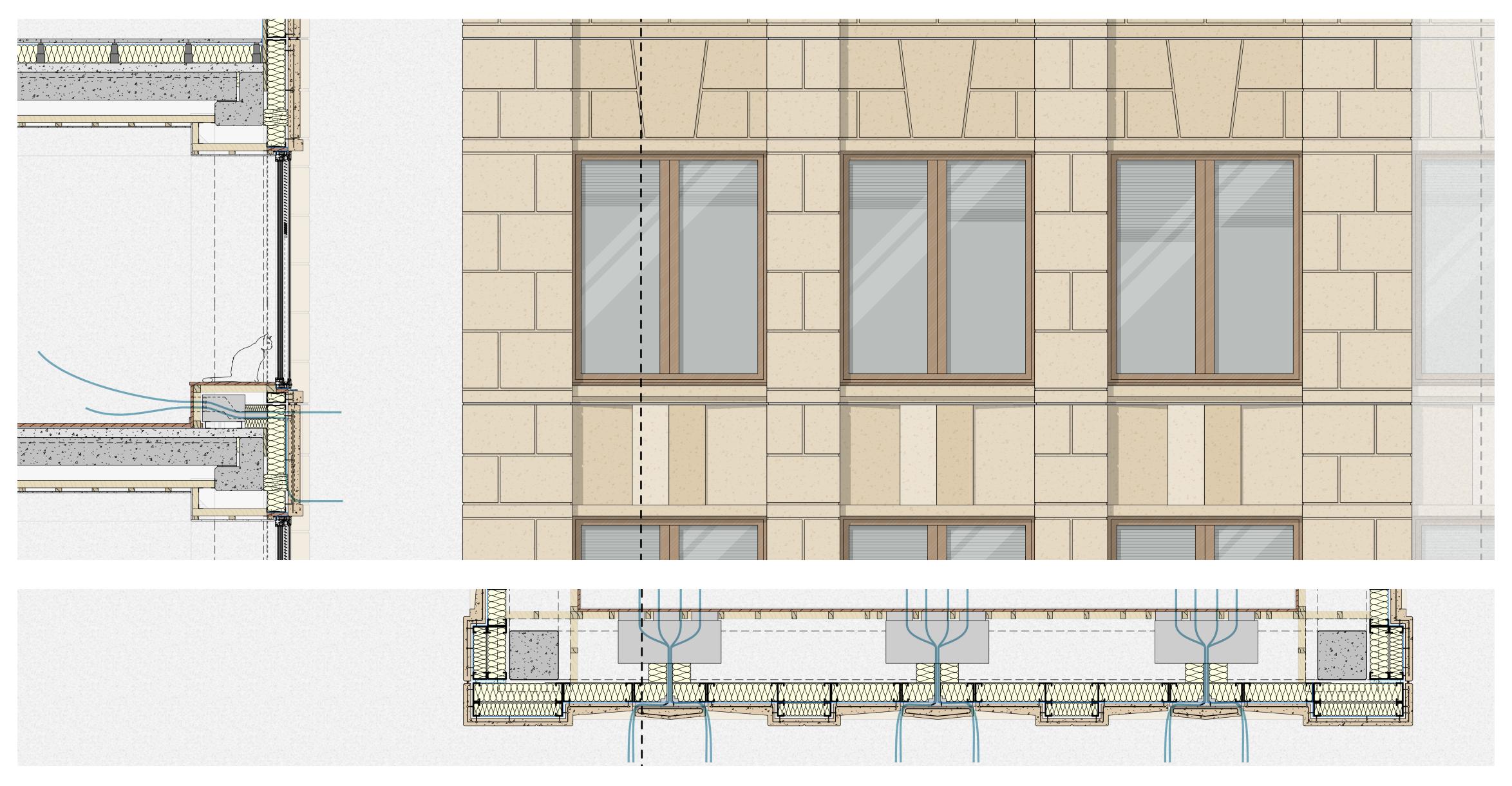
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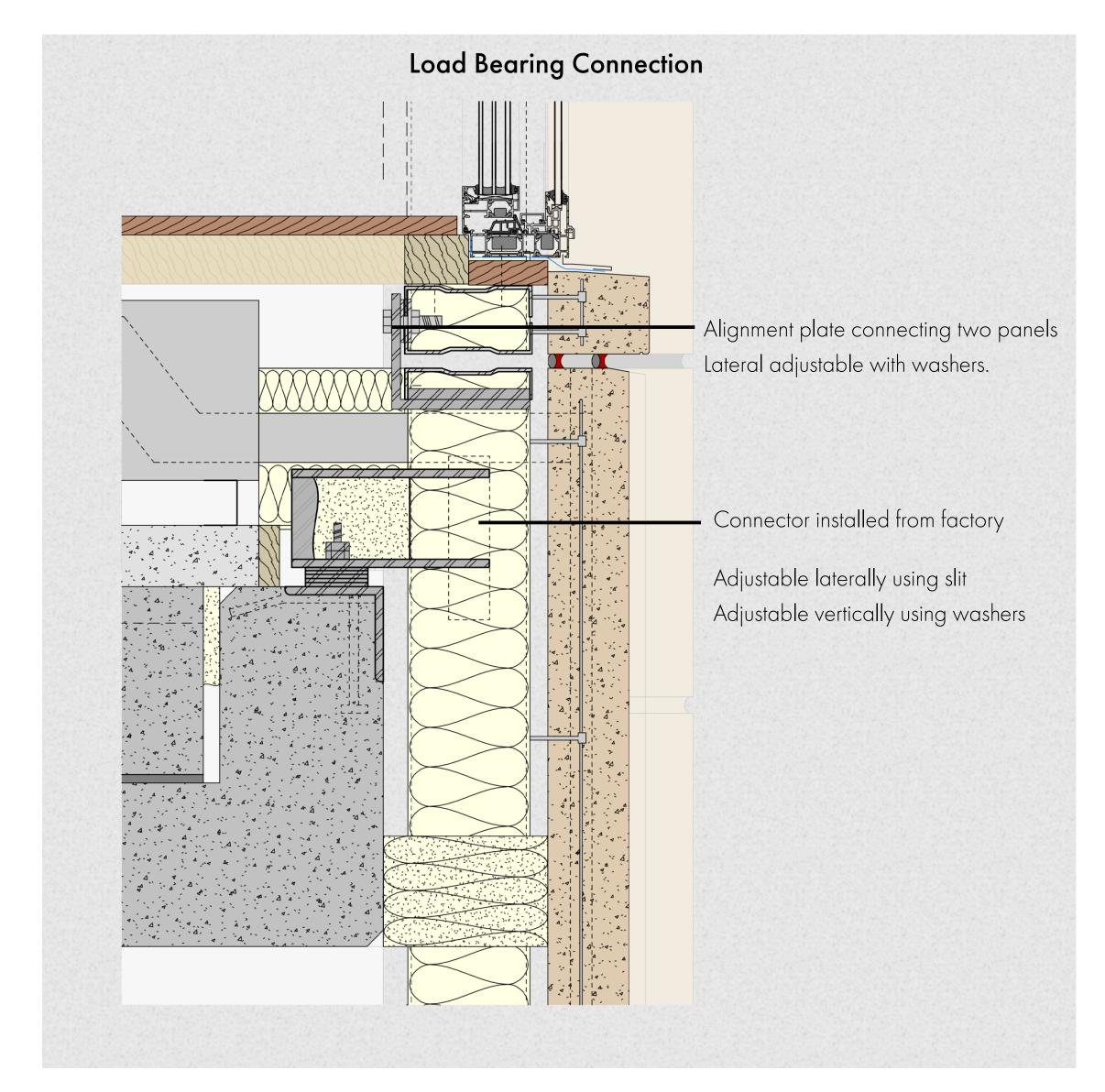
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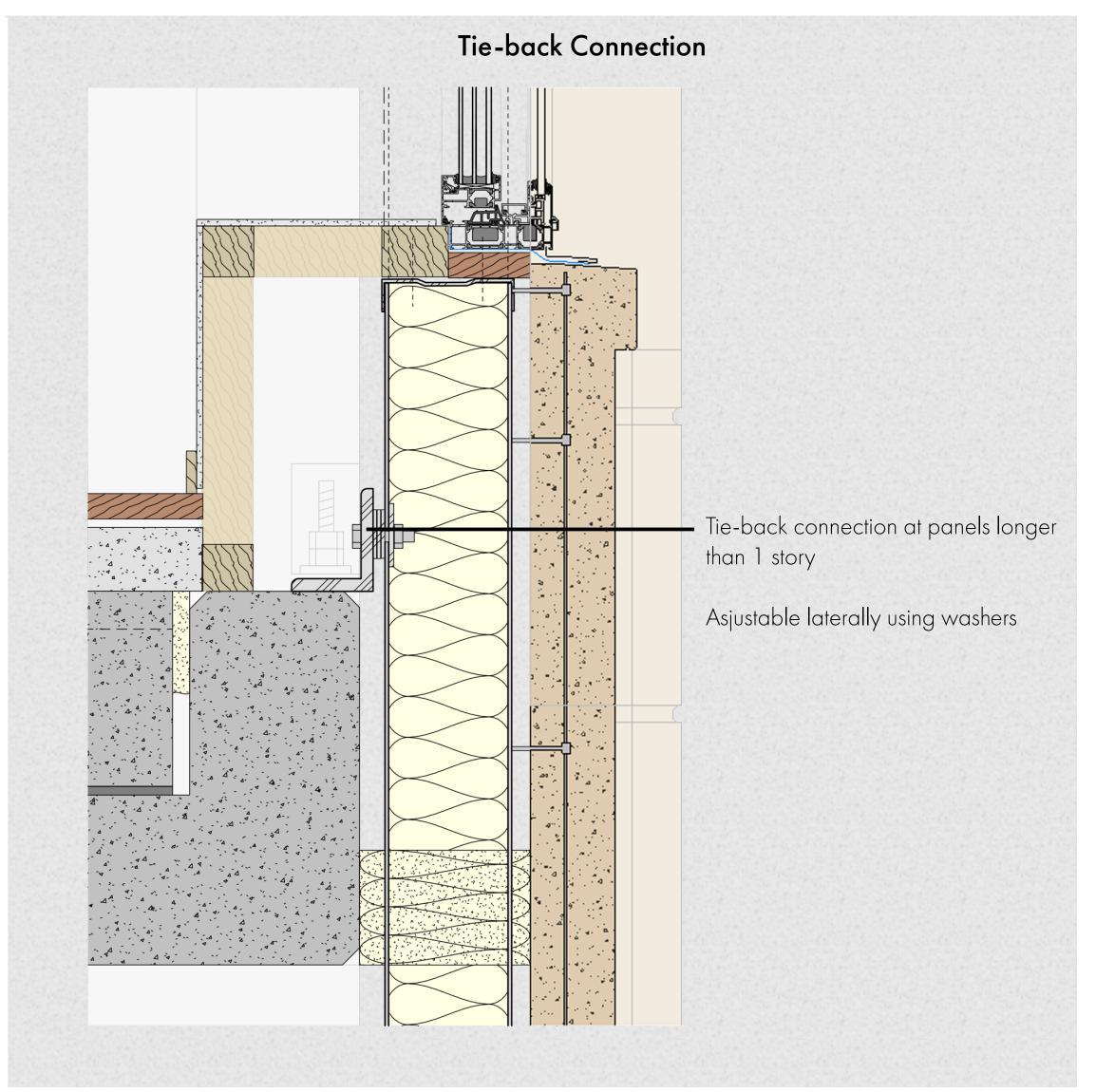


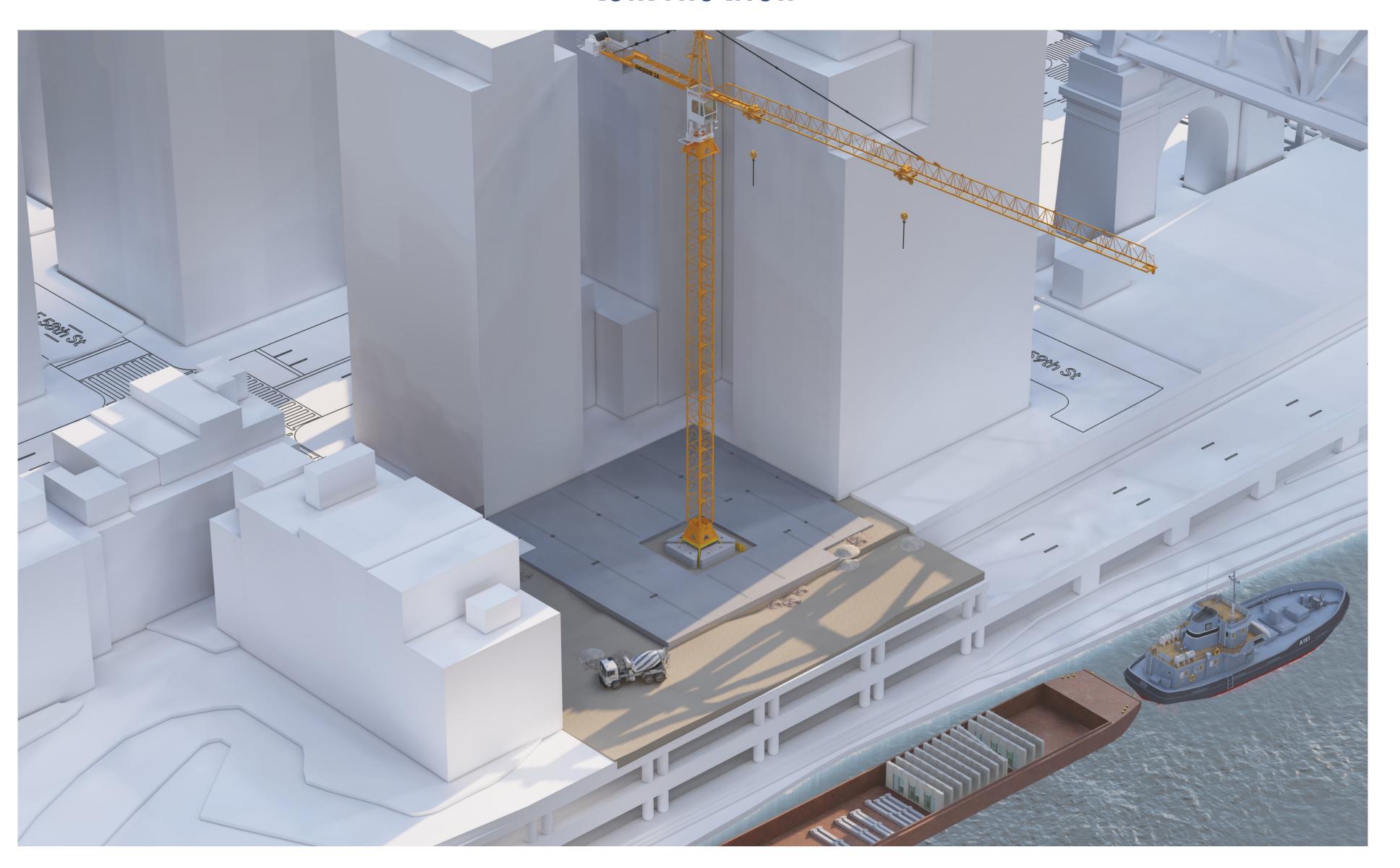
#### DANET DESIGN

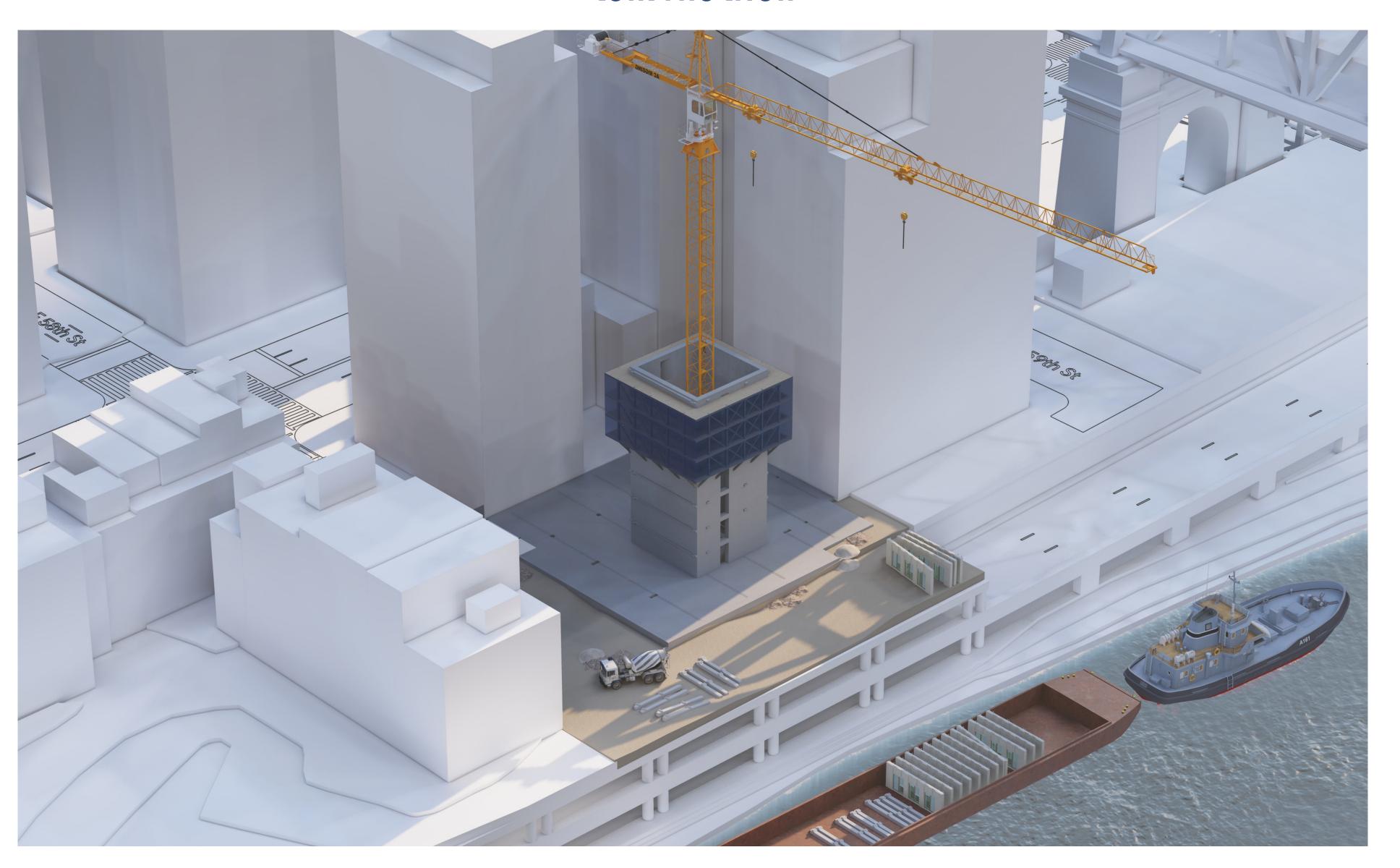


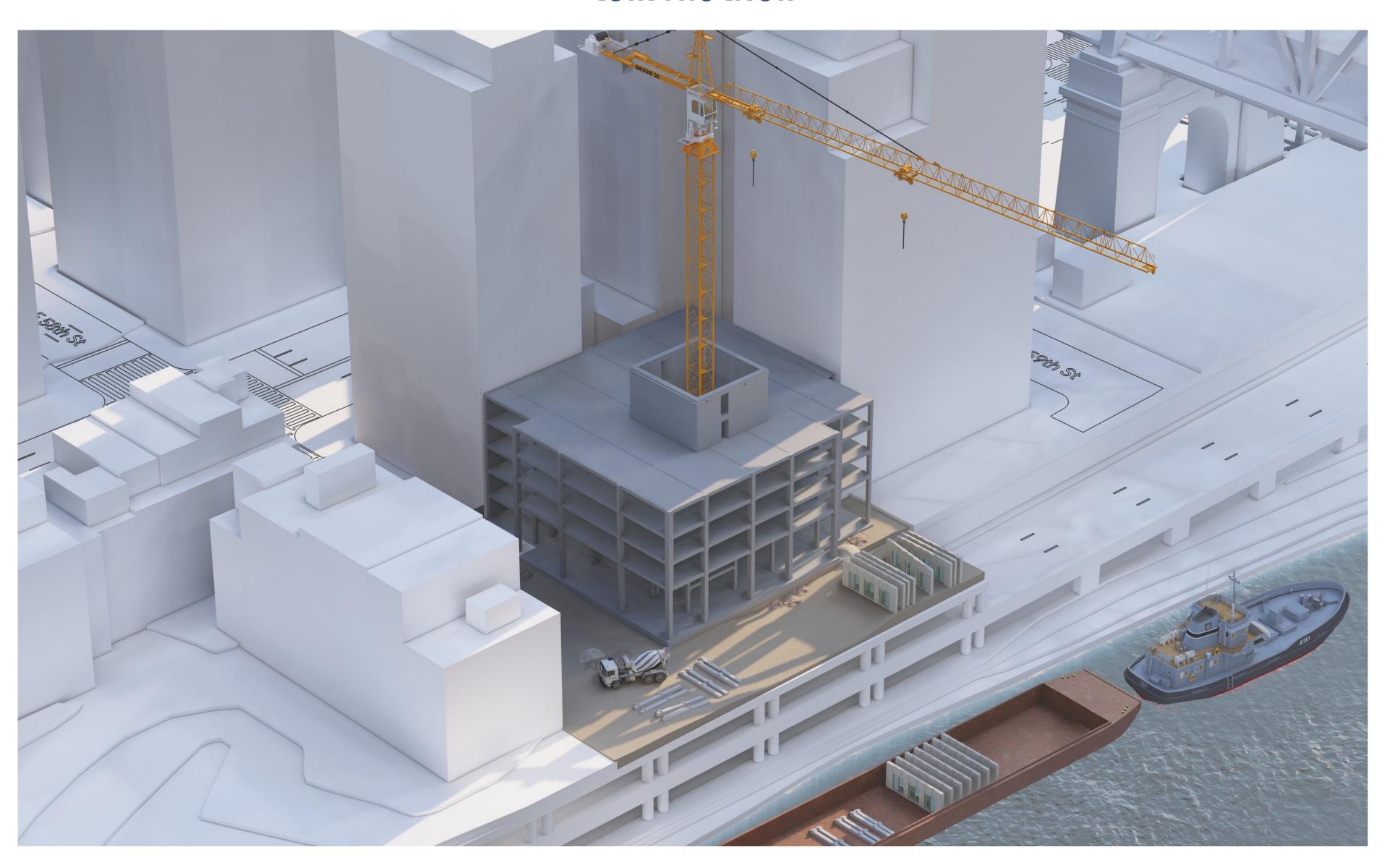
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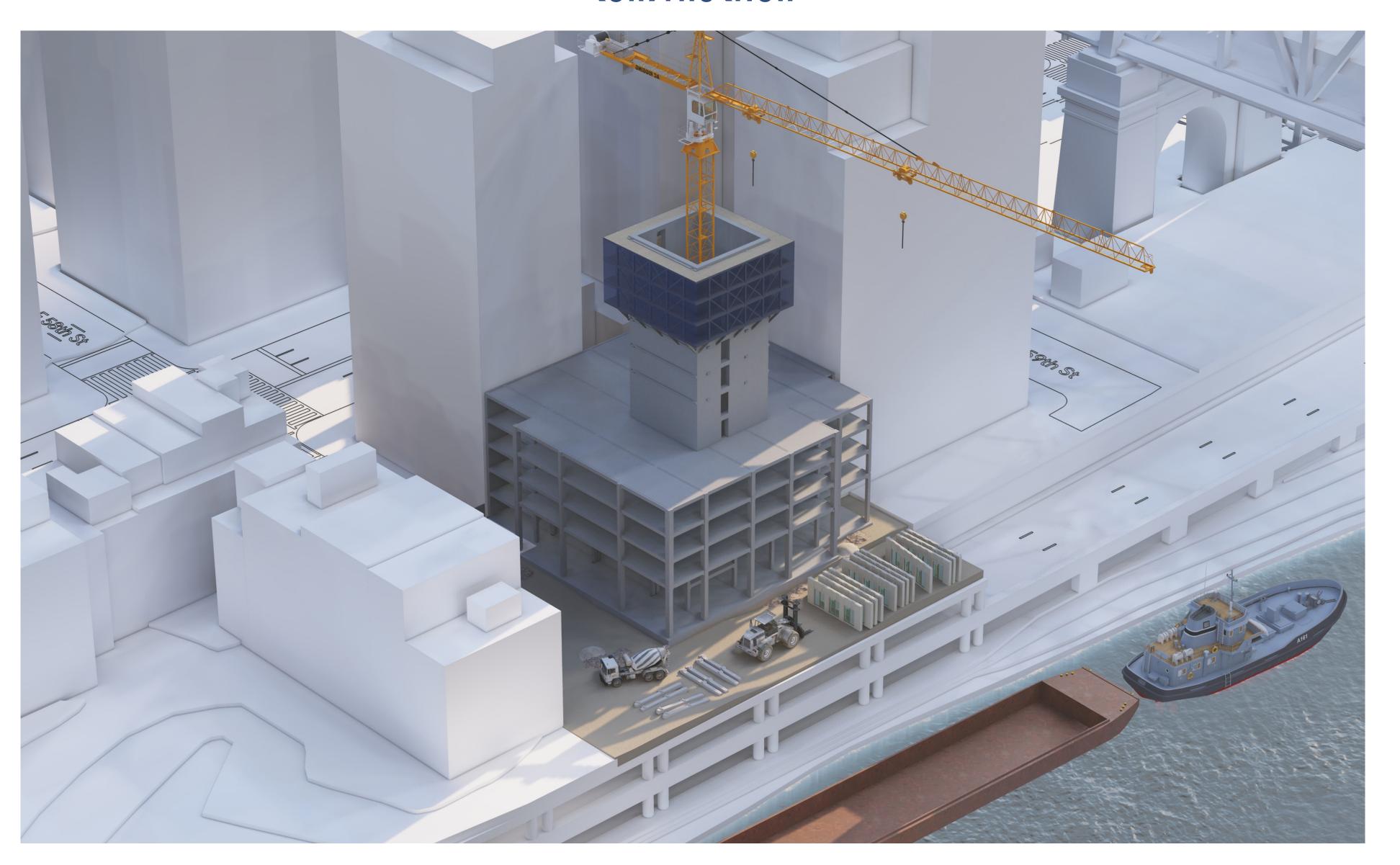


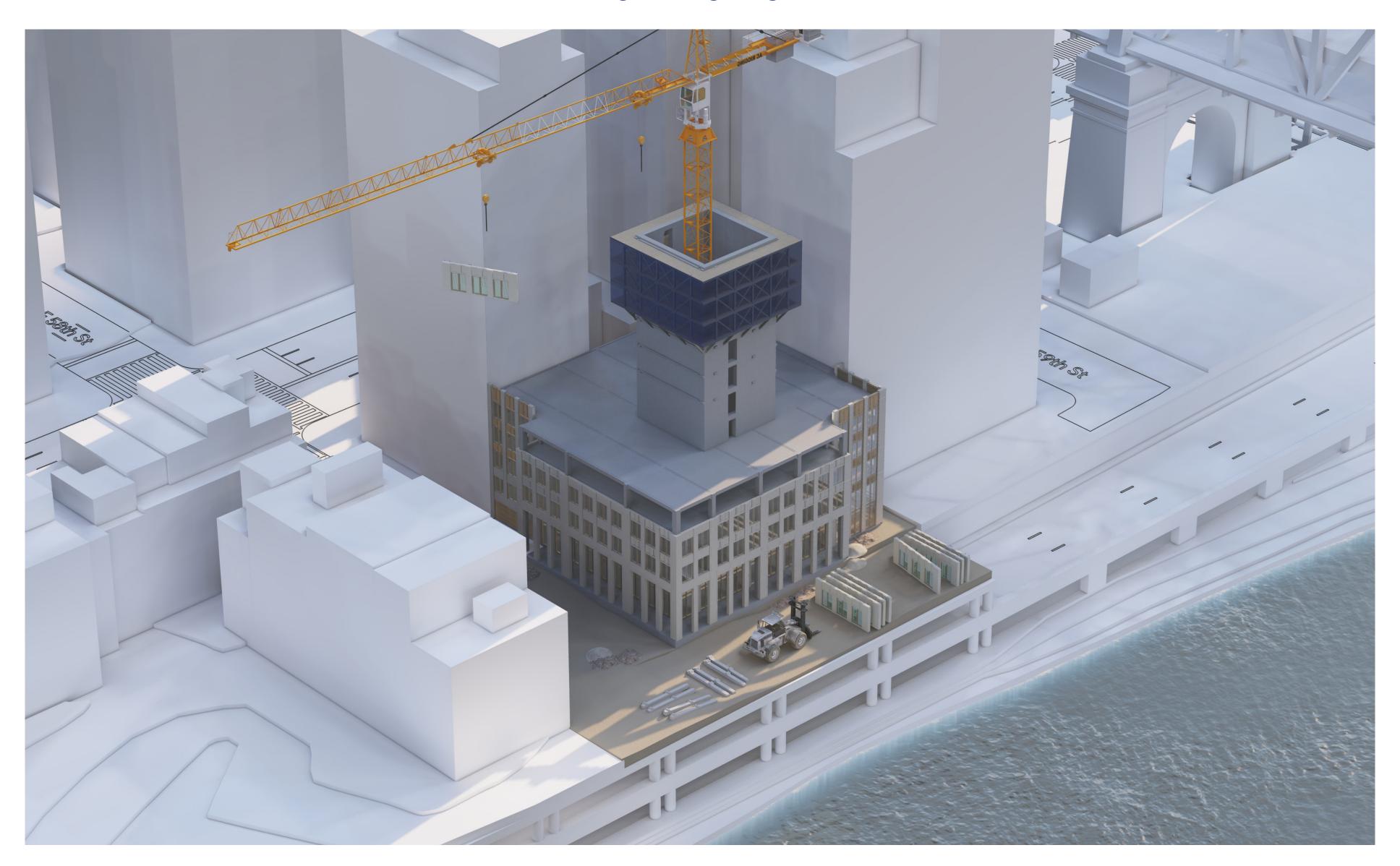


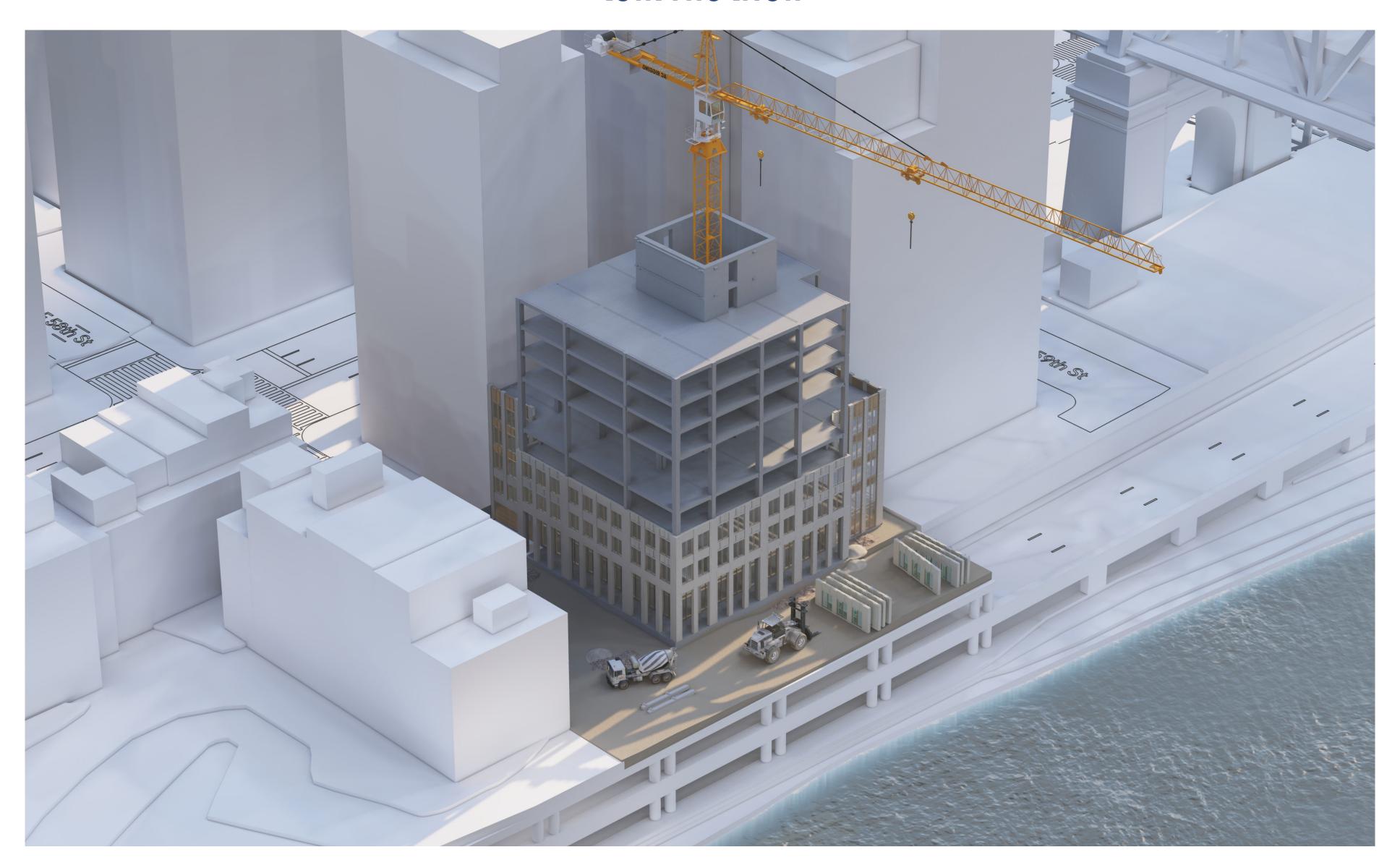






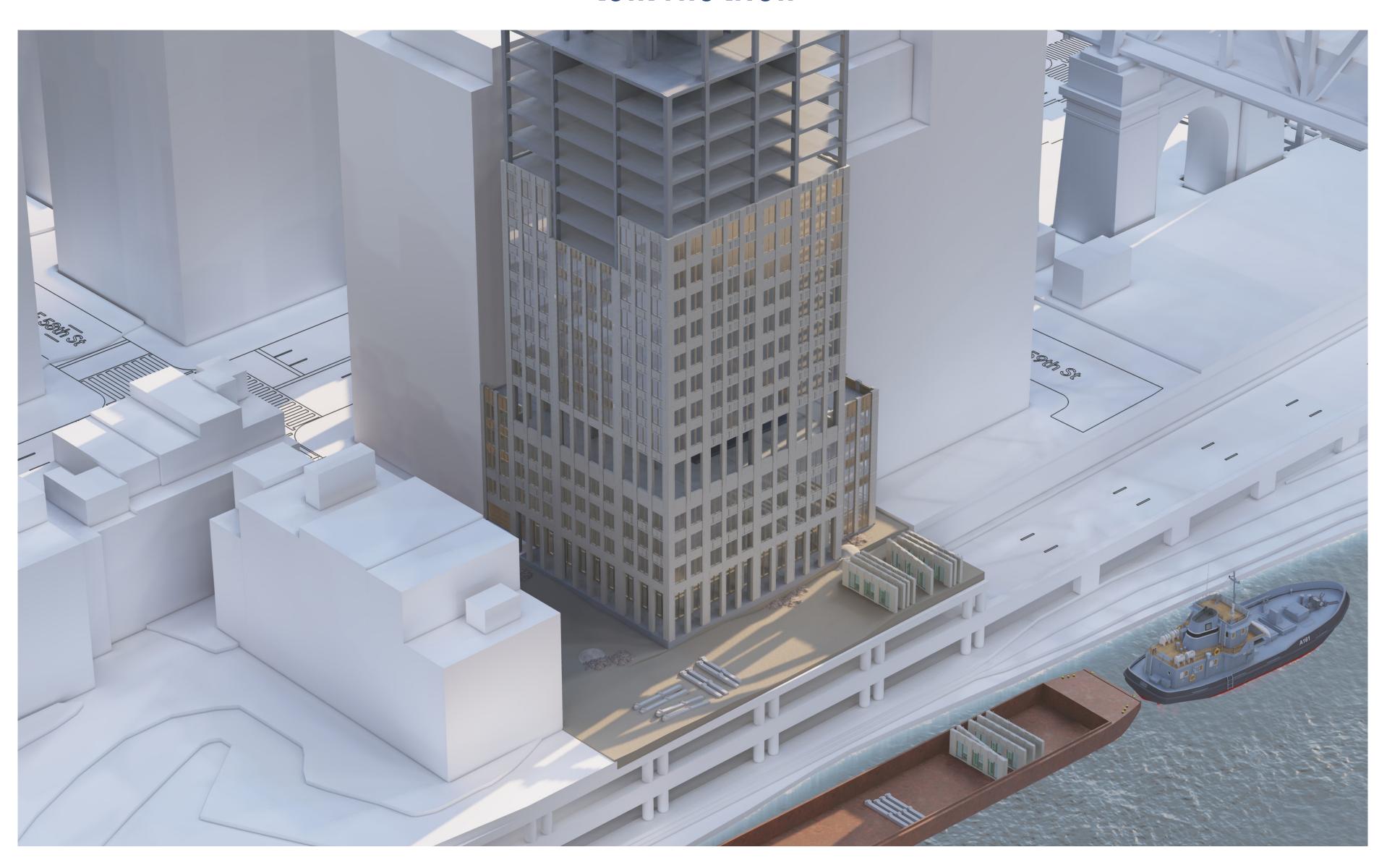


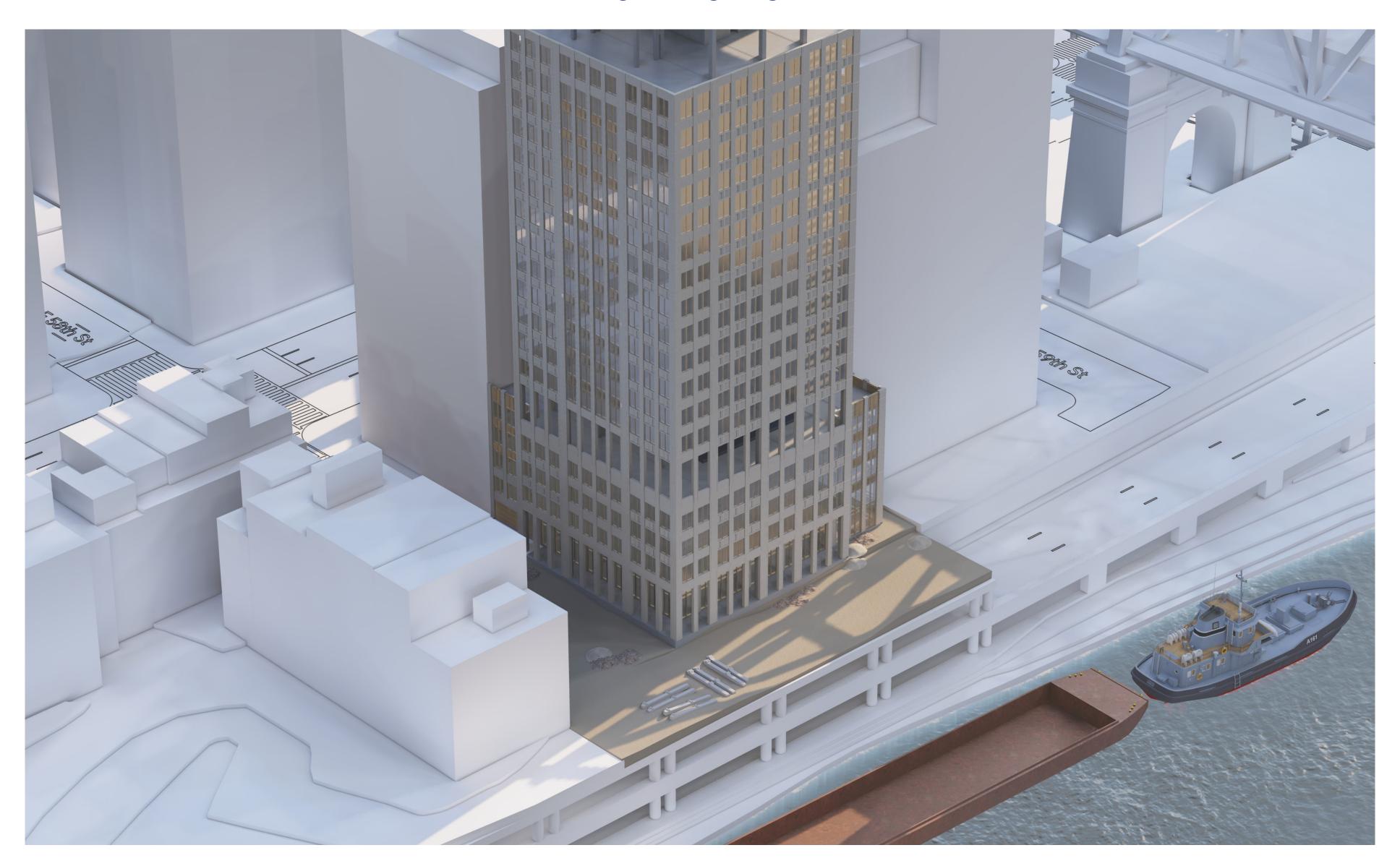


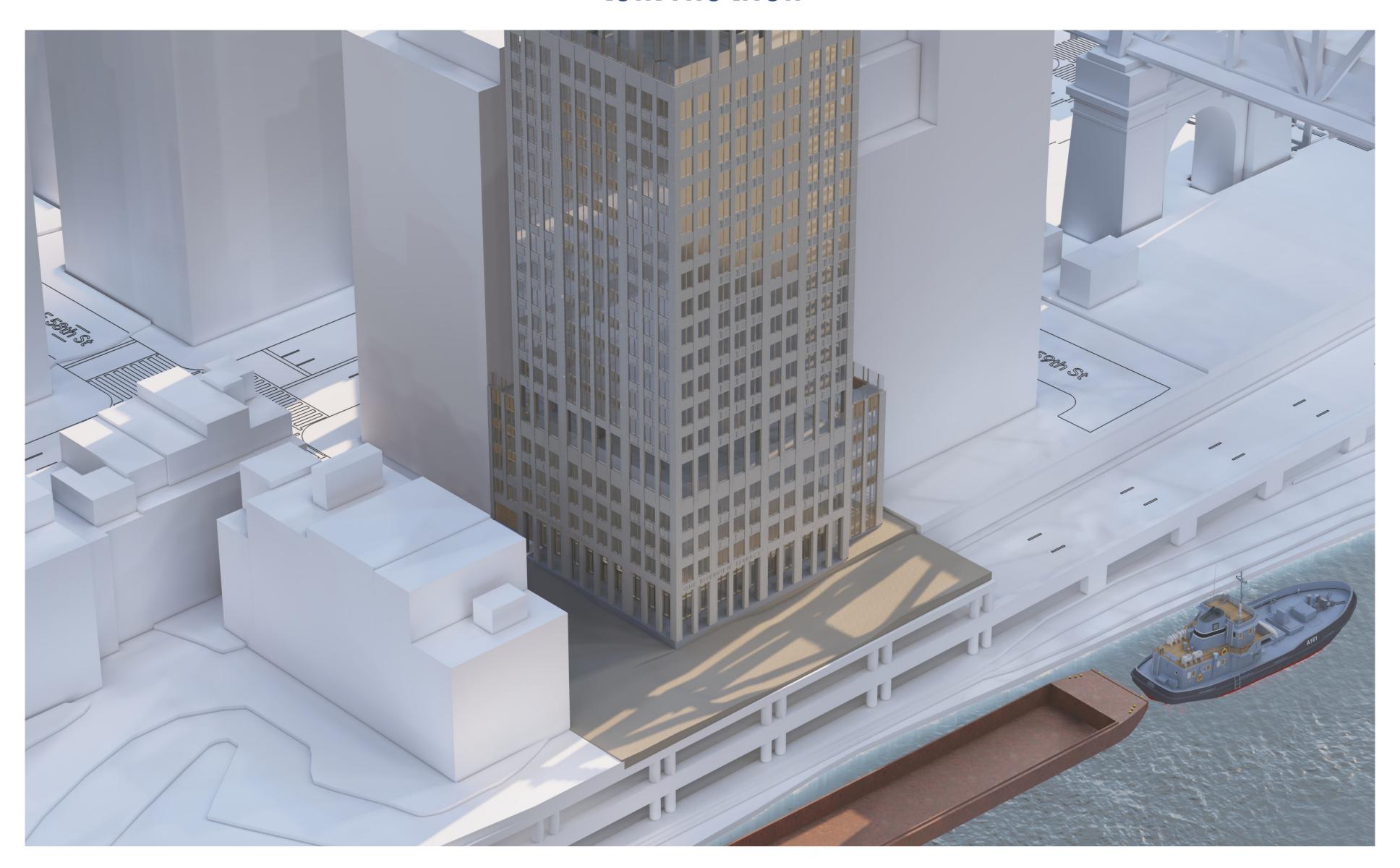












DAAT VIII

Result

#### THE SPHRK



# tintl design

