MUSIC BUNKER

COMMEMORATIVE PERFORMING ARTS CENTER



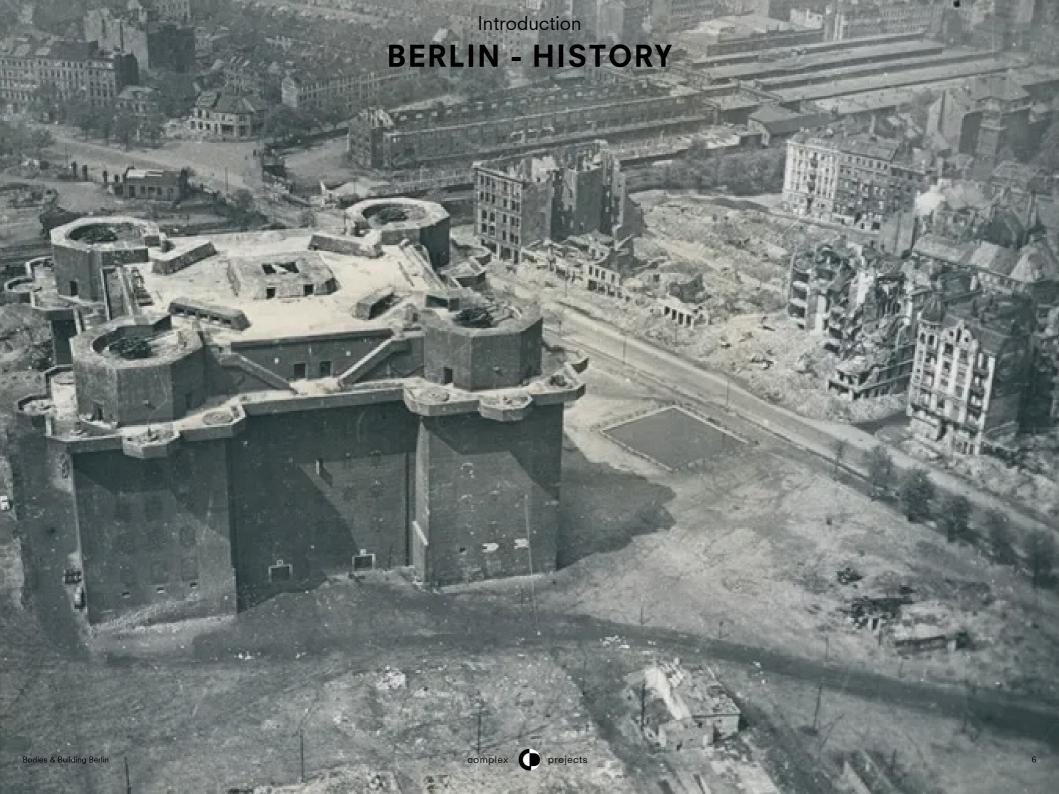
UIJEONG LEE 03/07/2024 P5 PRESENTATION COMPLEX PROJECTS GRADUATION STUDIO

INTRODUCTION

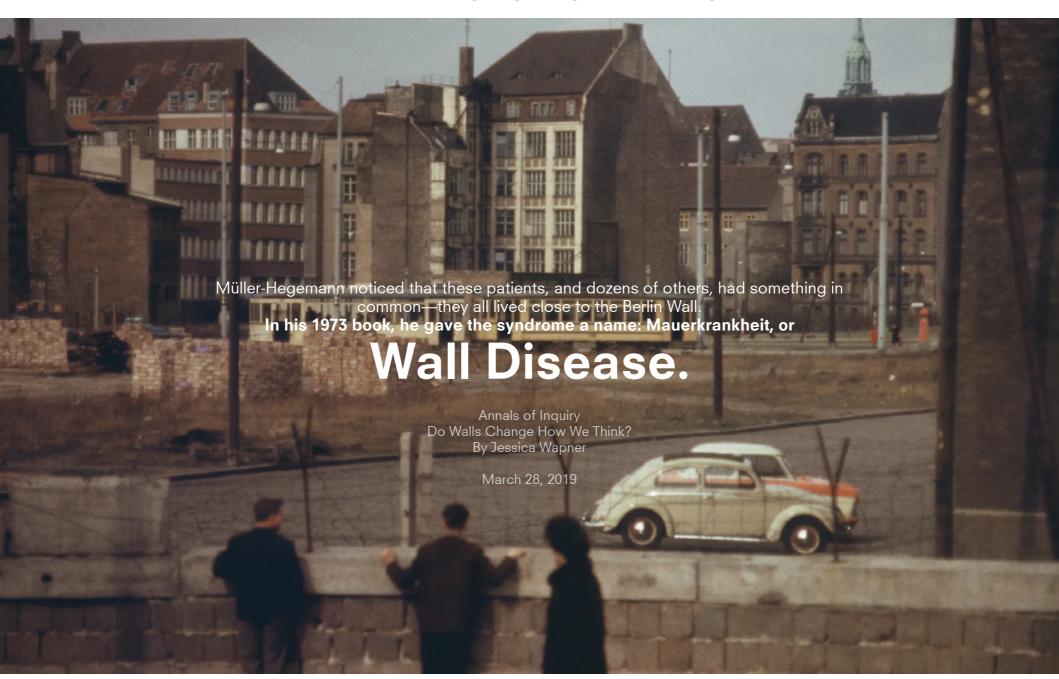


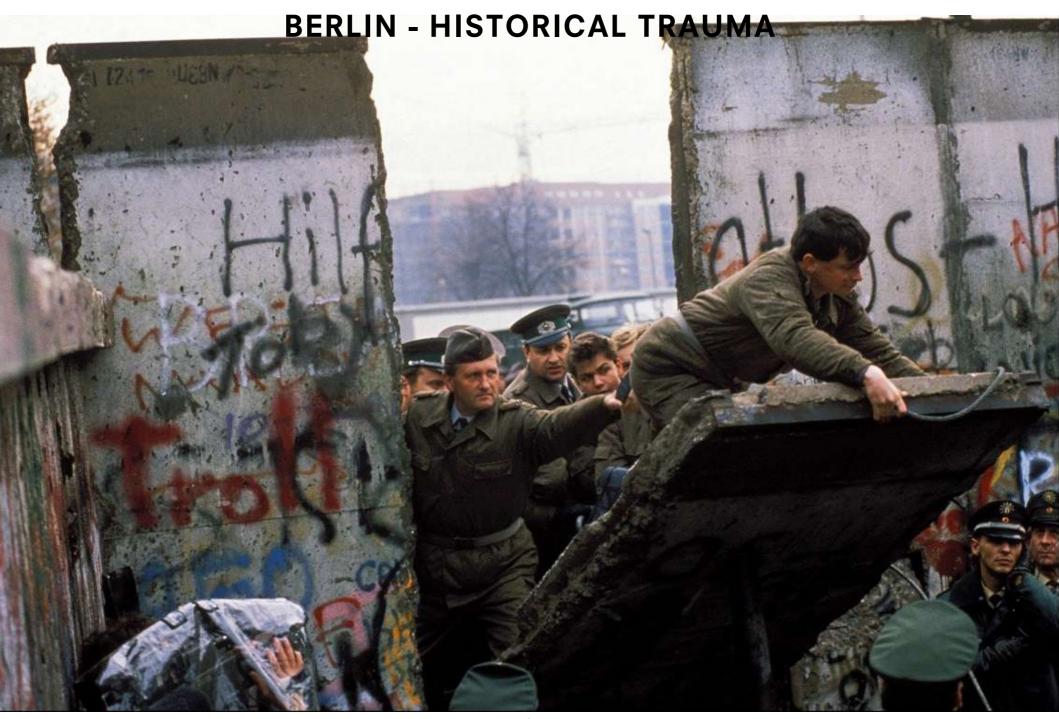
Introduction **BERLIN - HISTORY** BERLIN bleibt deutsch complex projects Bodies & Building Berlin

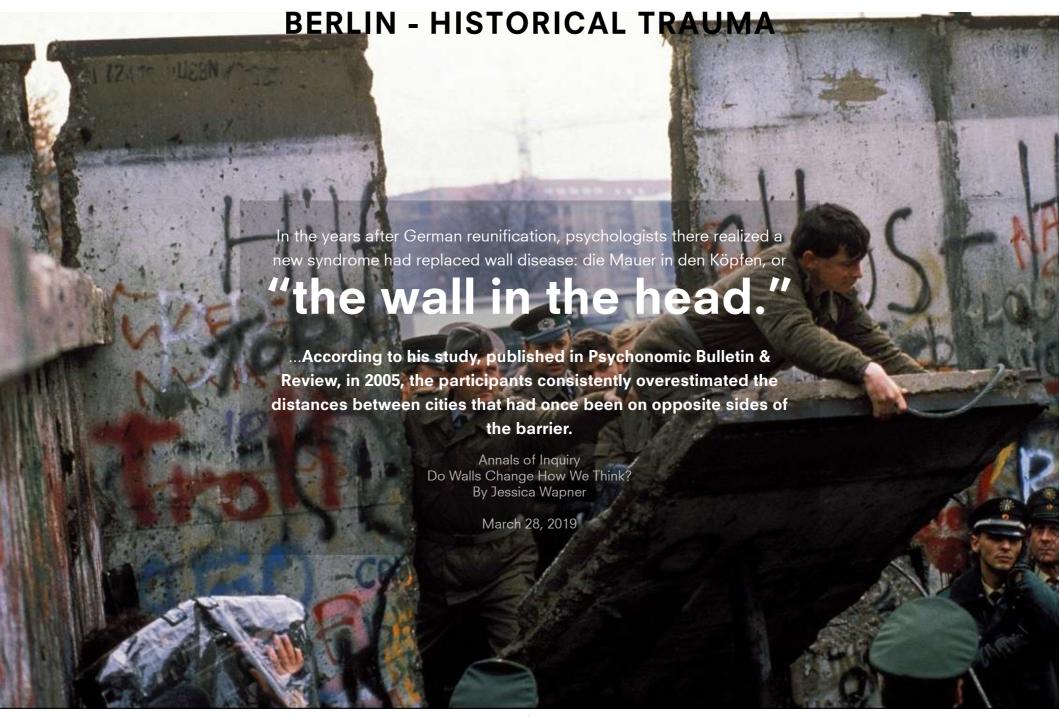




BERLIN - HISTORICAL TRAUMA







BEYOND TRAUMA

PERFORMING ARTS TRAUMA

TRAUMA AND PERFORMING ARTS

Theater/Performance



Body B

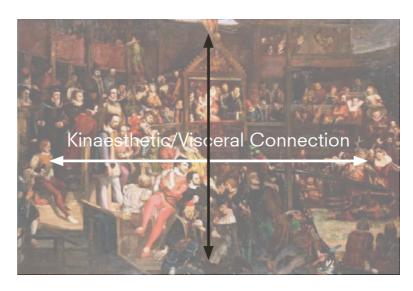
Body A

Catalyst to re-embodying traumatic experience

Duggan, Patrick Gerald, Who's Who, 2007

TRAUMA AND PERFORMING ARTS

Theater/ Performance



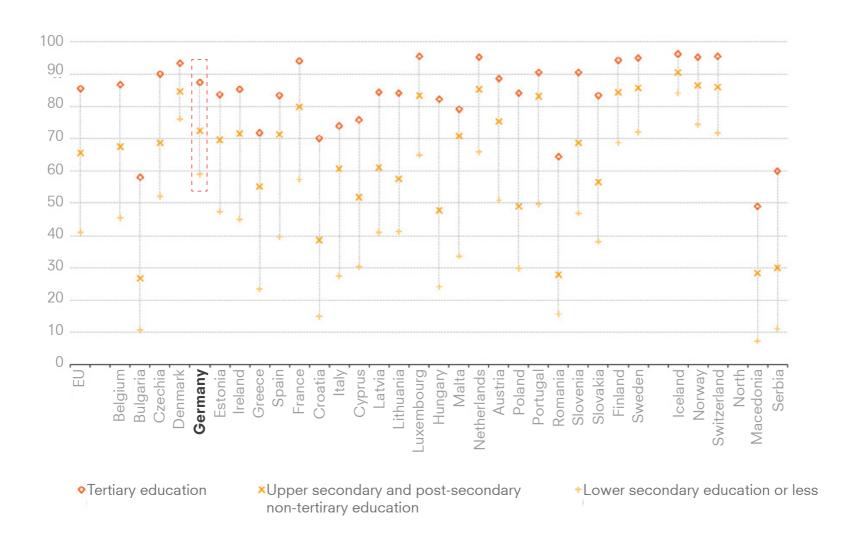
 $\mathsf{Body}\ \mathsf{B}$

 $\mathsf{Body}\,\mathsf{A}$

Catalyst to re-embodying traumatic experience

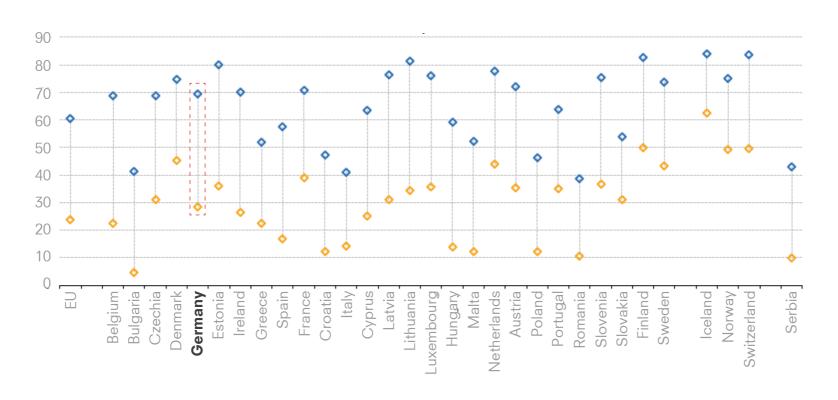
Duggan, Patrick Gerald, Who's Who, 2007

CULTURAL PARTICIPATION IN GERMANY



Cultural participation during the previous 12 months by a low level of education attainment, 2015

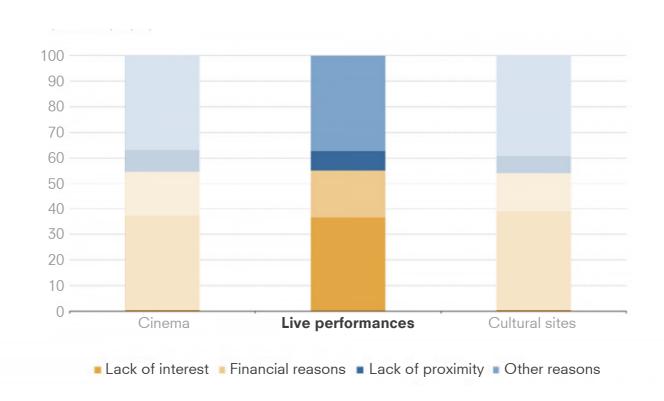
CULTURAL PARTICIPATION IN GERMANY



- Fifth income quintile
- First income quintile

Cultural participation of live performances during the previous 12 months, **by income quintile**, 2015

CULTURAL PARTICIPATION IN GERMANY



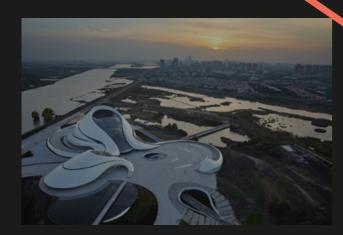
Main reasons for not participating in cultural activities durinbg the previous 12 months, EU, 2015







Over-Sized Ostentatious Performing Arts Center?







Over-Sized Ostentatious Performing Arts Center?

Performing Arts Center Next Generation

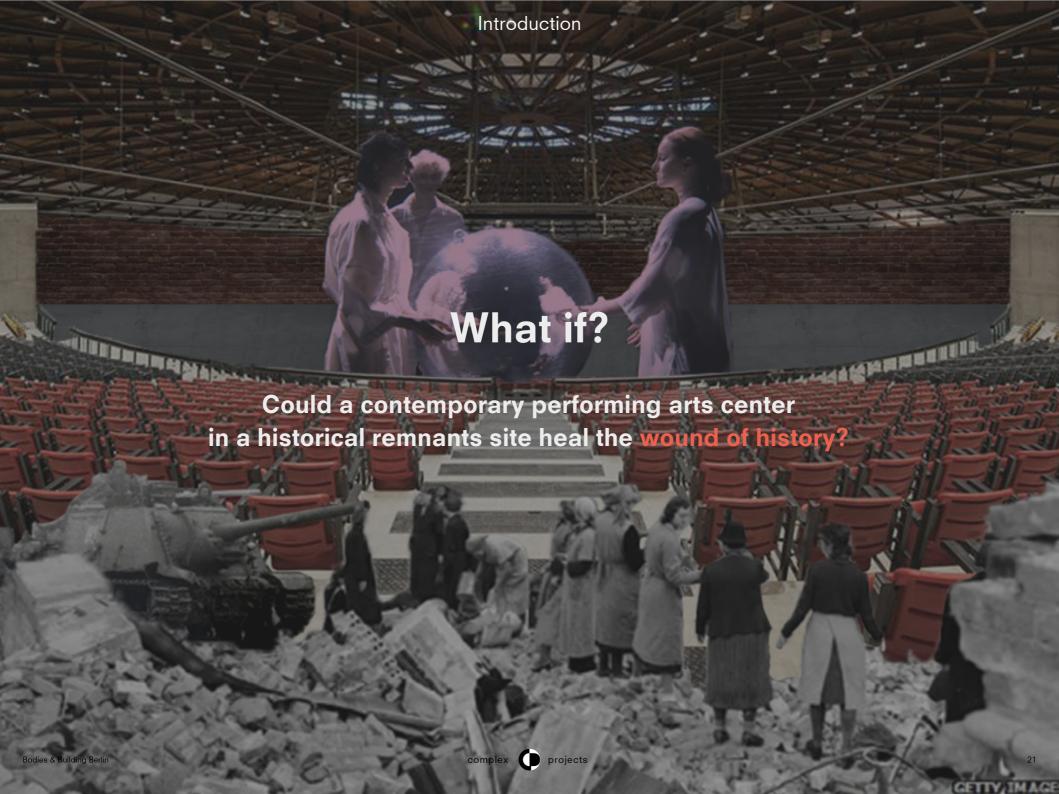
Localized & Site specific

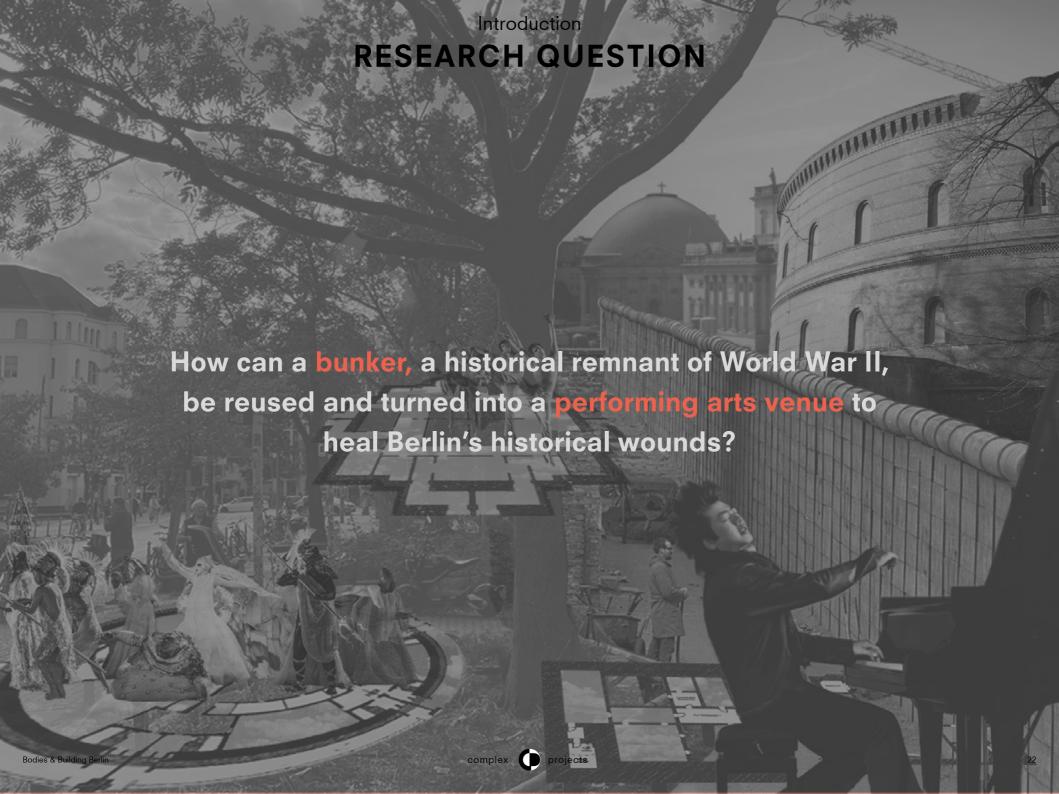
Interact in one's life

Performing Barts Certor In Generation

Local Bell Raite Necific

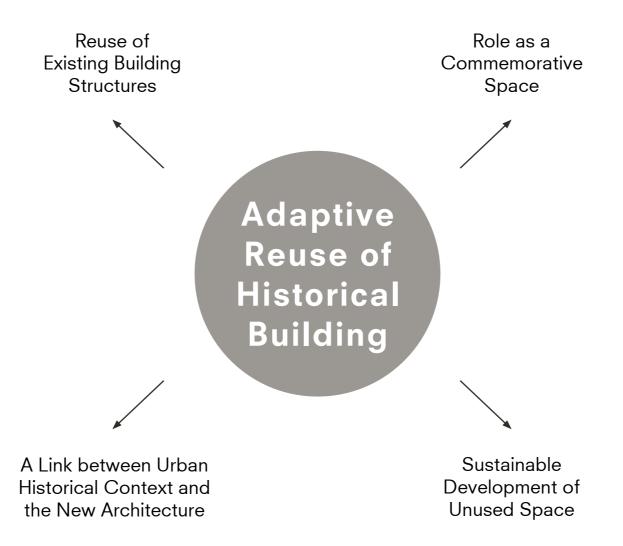
intel BODYs life





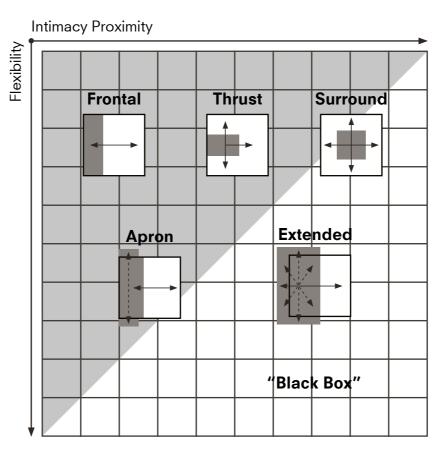
Research

ADAPTIVE REUSE STRATEGY



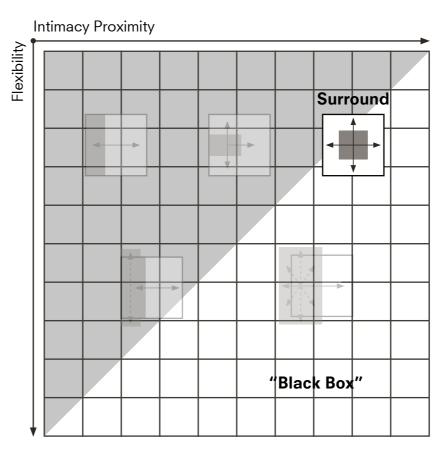
RESEARCH

AUDIENCE - PERFORMER ARRANGEMENTS



© J.Paul Guyer 2014

AUDIENCE - PERFORMER ARRANGEMENTS



© J.Paul Guyer 2014

Program

REVIVAL OF CLASSICAL CONCERTS IN GERMANY



attendance of 18.2 million 40% more than the football Bundesliga



More concertgoers aged 20-29 than aged 50-5

Statistics by Deutsche Orchester-Vereinigung DOV, 2017

MODERN TO CONTEMPORARY THEATER TYPES

(Neo) Baroque



Theater of the restoration

Contemporary



Fan-shaped auditorium Proscenium stage



Thrust stage



Thrust stage



Chambre music theatre



Traverse stage



Horseshoe-shaped auditorium Proscenium stage



Fan-shaped auditorium Proscenium, apron, caliper stage



In-the-round stage



Shoebox hall



Vineyard concert hall



Promenade theatre

MODERN TO CONTEMPORARY THEATER TYPES

(Neo) Baroque



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Promenade theatre

Research

THEATER TYPES

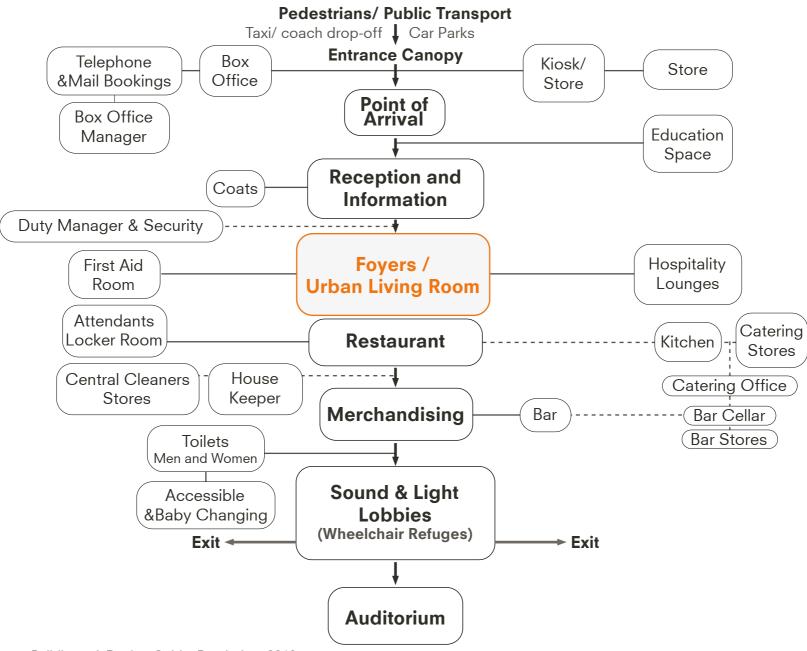


Vineyard Style Concert Hall
Classical Concerts



Black Box TheaterExperimental Performing arts

SPATIAL SEQUENCE



Strong, Judith. Theatre Buildings: A Design Guide. Routledge, 2010.

DESIGN BRIEF

PROGRAM

Program

CASE STUDY

01 The Past



Theatre of Epidaurus Greece, late 4th century BC



Teatro Olimpico Vicenza, 1585



Teatro alla Scala Milano, 1778



Opera Garnier Paris, 1875



Royal Albert Hall London, 1871



Berliner Philharmonie Berlin, 1963

02 The Present



Lincoln Center Newyork, 1969



Oslo Opera House Oslo, 2007



Margot and Bill Winspear Opera House Texas, 2008



Dee and Charles Wyly Theatre Texas, 2009



New World Center Florida, 2011



Casa da Música Porto, 2011

03 The Future



Elbphilharmonie hamburg, 2017



Taipei Performing Arts Center Taipei, 2014



Taichung Metropolitan Opera House Taichung, 2014



National Kaohsiung Center for the Arts Kaohsiung, 2017



Dalian International Conference Center Dalian, 2012



34

Harbin Opera House Harbin, 2015

Program

CASE STUDY

01 The Past



Theatre of Epidaurus
Greece, late 4th century BC



Vicenza, 1585



Teatro alla Scala Milano, 1778



Opera Garnie Paris, 1875



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Dalian International Conference Center



Harbin Opera House Harbin, 2015

Program CASE STUDY

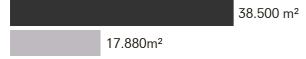




National Kaohsiung Center for the Arts



Oslo Opera House



Taipei Performing Arts Center



Casa da Música



Program CASE STUDY

Elbphilharmonie



National Kaohsiung Center for the Arts



Oslo Opera House



Taipei Performing Arts Center

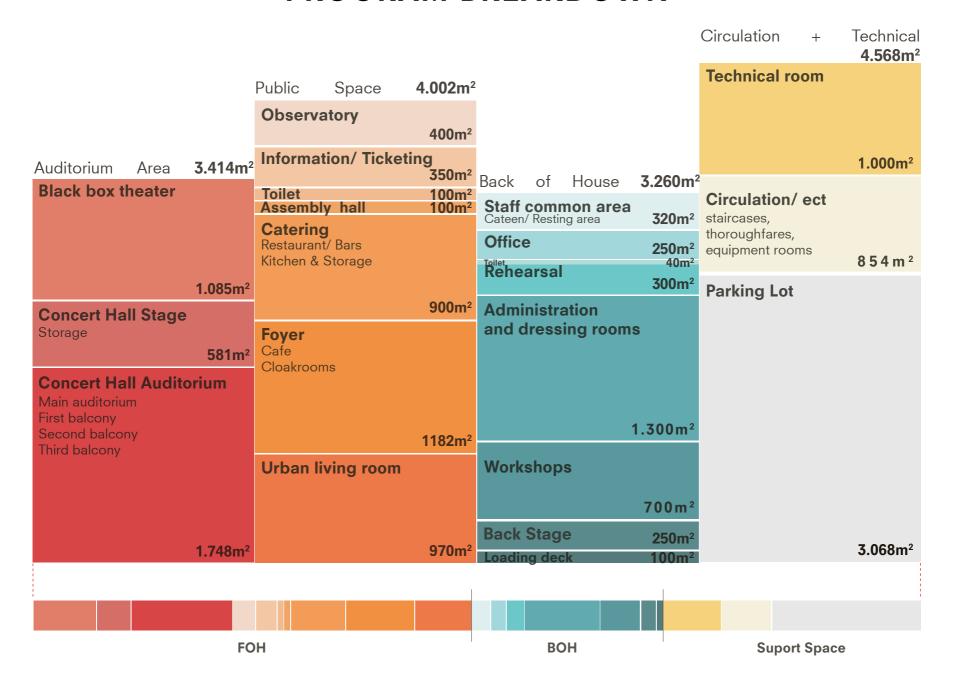


Casa da Música



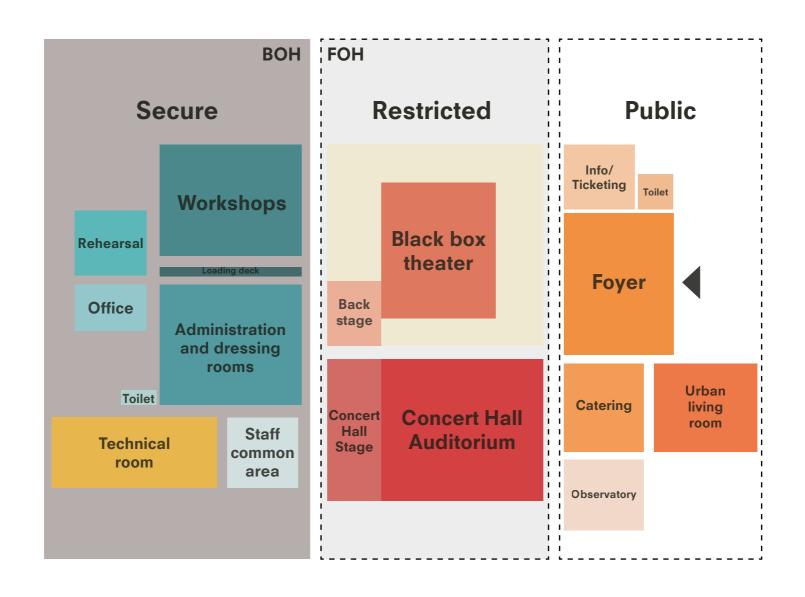
Program

PROGRAM BREAKDOWN



Program

SPATIAL RELATION DIAGRAM



SITE







Site SITE SELECTION X a X d X X 1,4km 1,7km 1,1km × 0,9km 0,3km 0,7km × + 07 A LEGEND X 08 **BUNKER SITE** × **07** HOCHBUNKER PALLASSTRAßE **08** FICHTE BUNKER ADJACENT PERFORMING ARTS SPACE A Speakeazy Stage & Studio Potential Collaborative Facility B Havanna La Discoteca Latina C Tanzfabrik Berlin **D** Huxleys Neue Welt X b' E Labor Gras F Dance School "Traumtänzer" Bodies & Building Berlin projects complex

OTHER PERFORMING ARTS SPACE

a Uferstudios GmbH b Max-Schmeling-Halle c HALLE TANZBÜHNE BERLIN f Acker Stadt Palast g Clärchens Ballhaus h Ballet - and dance school TanzZwiEt i Berliner Residenz Konzerte k Admiralspalast I Haus der Kulturen der Welt n Staatsoper Unter den Linden m Komische Oper Berlin o Pierre Boulez Saal in Berlin p Pierre Boulez Saal in Berlin g Deutsche Oper Berlin r Rundfunk-Sinfonieorchester Berlin

X

X u

×

t Philharmonie Berlin u Astra Kulturhaus

s Radialsystem

d Lyrik e Velodrom

i Sophiensaele

v Haus des Rundfunks

w Mercedes-Benz Arena

x HAU Hebbel am Ufer

y Treptow Arena

z Neuköllner Oper

a' Café in the Schwartz Villa

b' "Connecting You" Dance School

c' Deutsches Theater Berlin

Site FICHTE BUNKER



Location: Fichtestraße 6, 10967 Berlin

FICHTE BUNKER















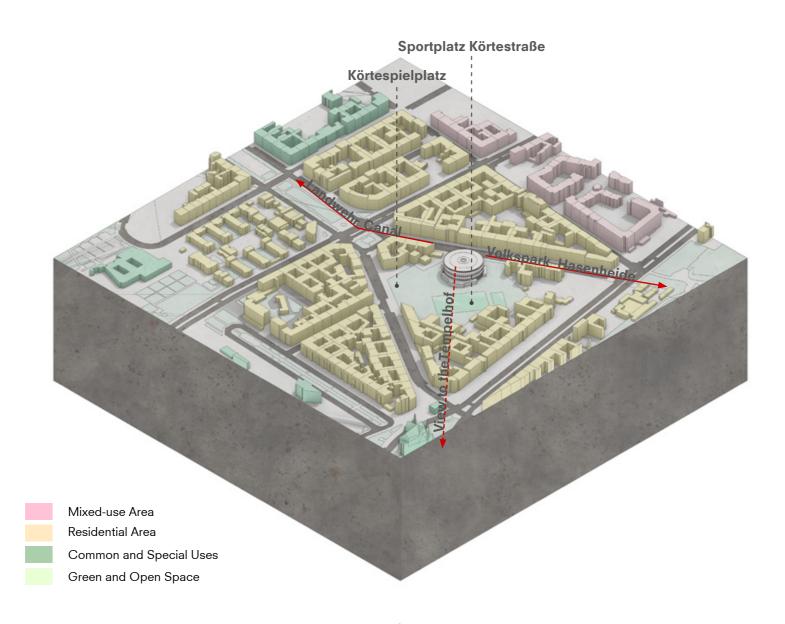








Site SITE ANALYSIS



CLIENT

Client STAKEHOLDERS

Main Stakeholders

Investment decision maker
Federal government commissioner
for culture and media

Senior responsible owner
Senate Department for Culture
and Social Cohesion

Project sponsor Berliner Philharmoniker

Relevant Stakeholders

Project board

The LAFT Berlin

Local Dacnce Institutes (Traumtänzer, Labor Gras)

Berlin Underworlds Association

Main Users

Audience

Berliner Philharmoniker

The LAFT Berlin

Artists/ Performers

Locals

Local Dacnce Institutes (Traumtänzer, Labor Gras)

Client

MAIN STAKEHOLDERS

Investment decision maker



Federal government commissioner for culture and media

Senior responsible owner



Senate Department for Culture and Social Cohesion

Project sponsor

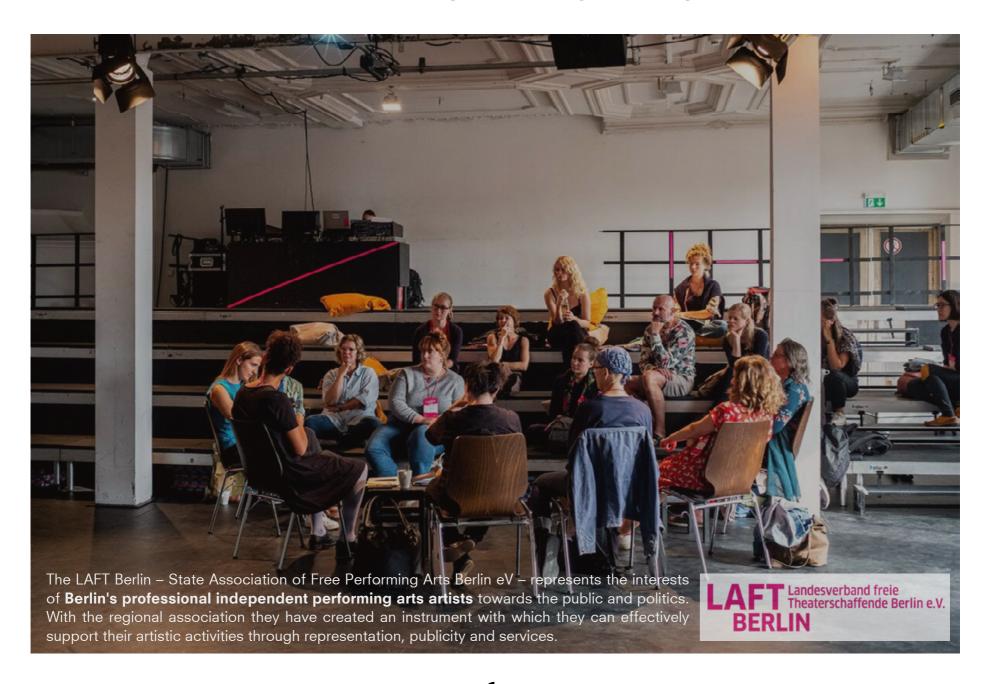


Berliner Philharmoniker



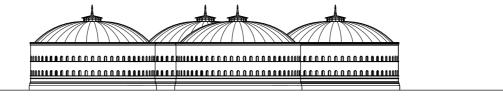
Client

RELATED STAKEHOLDERS



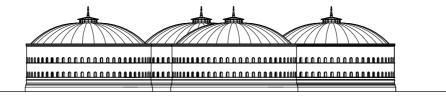
DESIGN CONCEPT

Design Concept HISTORY AND FUTURE



1871 Gas Holder

HISTORY AND FUTURE

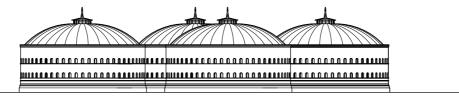


1871 Gas Holder

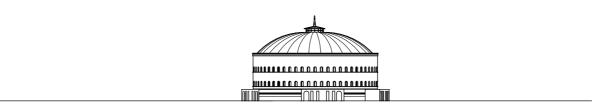


1941 Air-raid Shelter for Women and Children

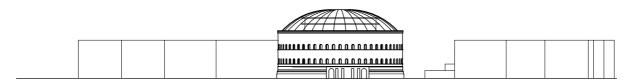
HISTORY AND FUTURE



1871 Gas Holder

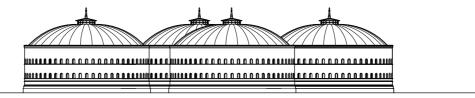


1941 Air-raid Shelter for Women and Children

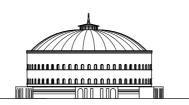


2010 "Circlehouse" of 13 Condominiums on Top of the Bunker

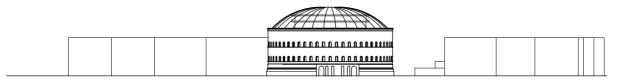
HISTORY AND FUTURE



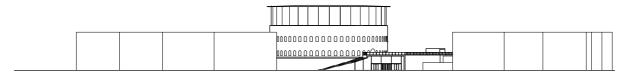
1871 Gas Holder



1941 Air-raid Shelter for Women and Children



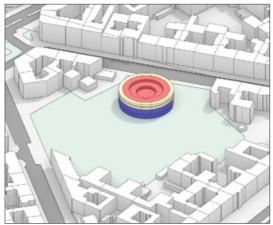
2010 "Circlehouse" of 13 Condominiums on Top of the Bunker



2024 ???

MASSING STUDIES

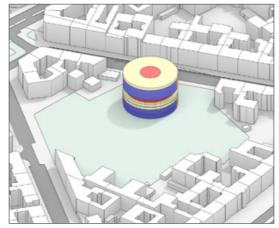
Program inside the bunker



Height: 21m

Building footprint: 2.463m²

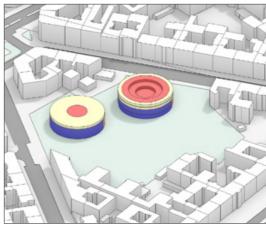
Extension Alternative 1 _ Vertical



Height: 35m

Building footprint: 2.463m²

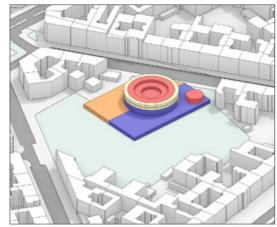
Extension Alternative 2 _ Twin



Height: 21m, 14m

Building footprint: 4.926m²

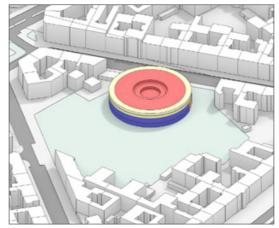
Extension Alternative 3 _ Flat



Height: 21m, 5m

Building footprint: 6.603m²

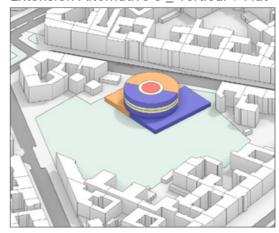
Extension Alternative 4 _ Offset



Height: 21m

Building footprint: 4.620m²

Extension Alternative 5 _ Vertical + Flat



Height: 21m, 5m

Building footprint: 4.828m²

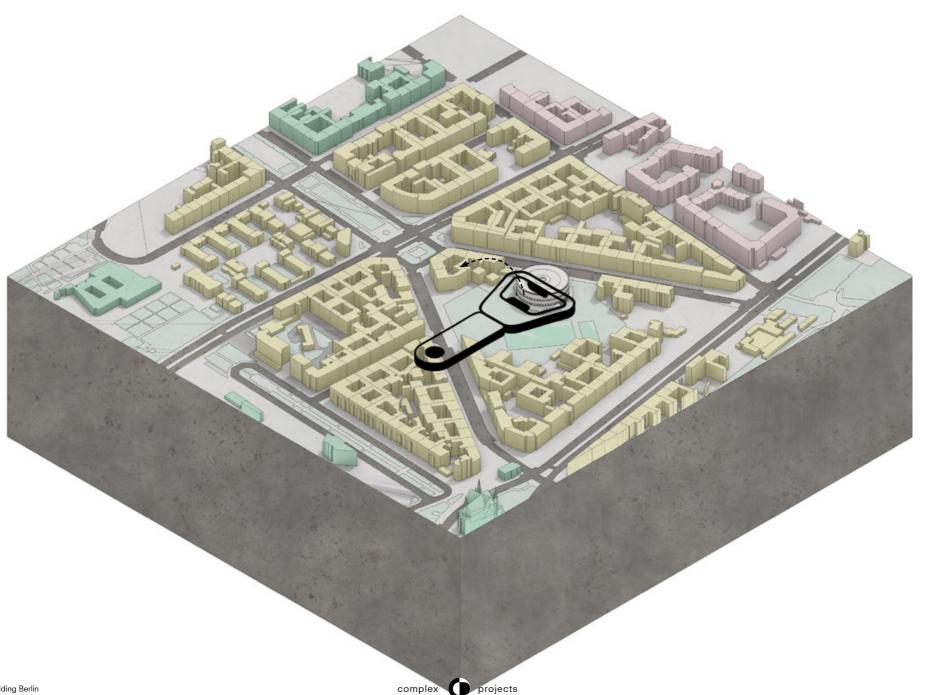
MASSING STUDIES



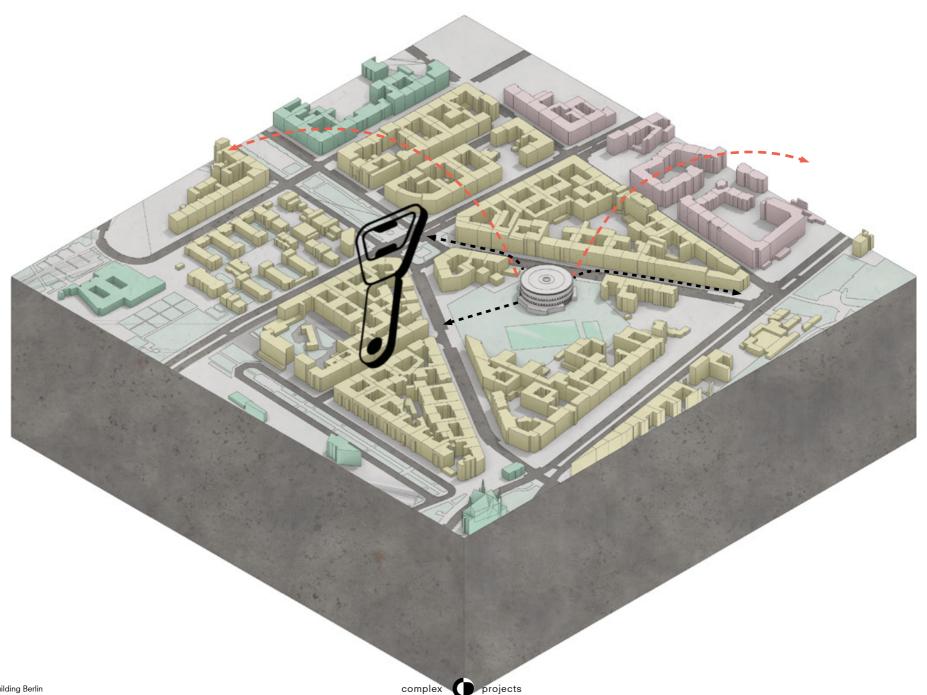
COMMEMORATIVE LANDSCAPE



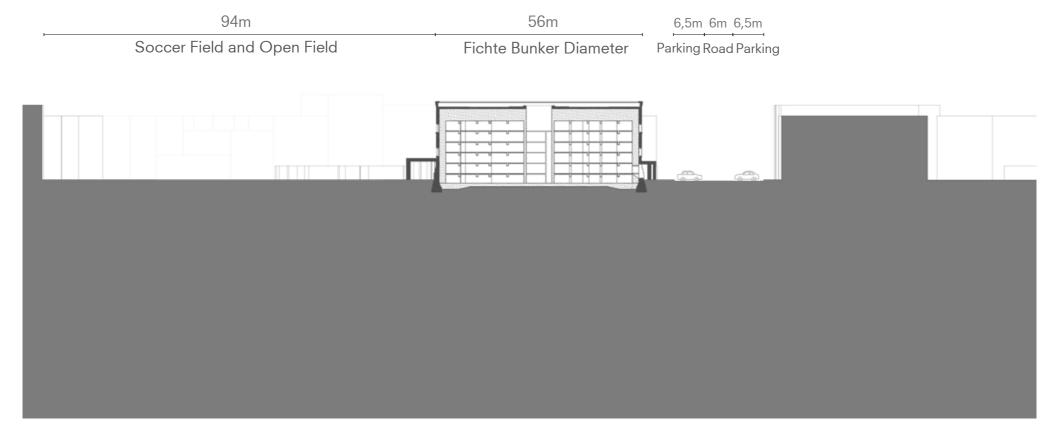
FROM ABANDONED TO AN OPEN BUNKER



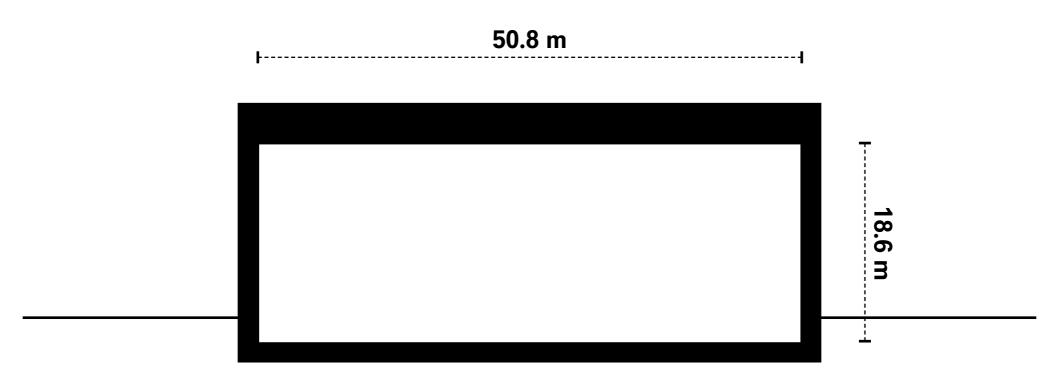
FROM ABANDONED TO AN OPEN BUNKER



CURRENT SITE CONDITION

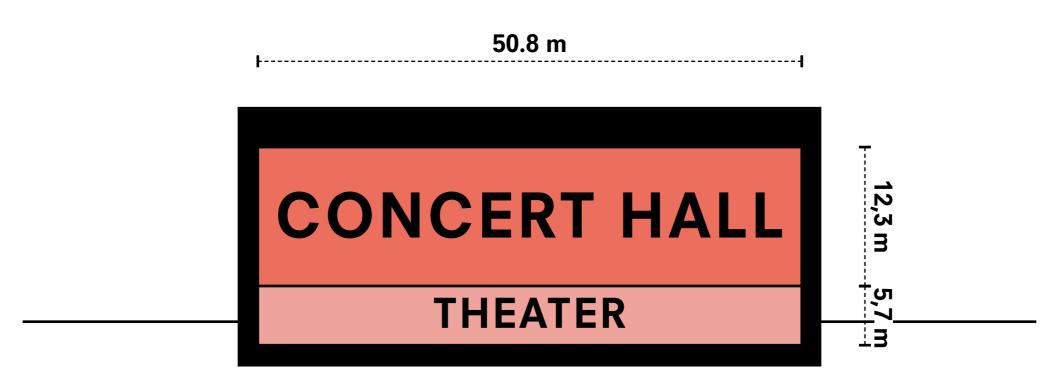


MUSIC BUNKER



Available bunker interior space

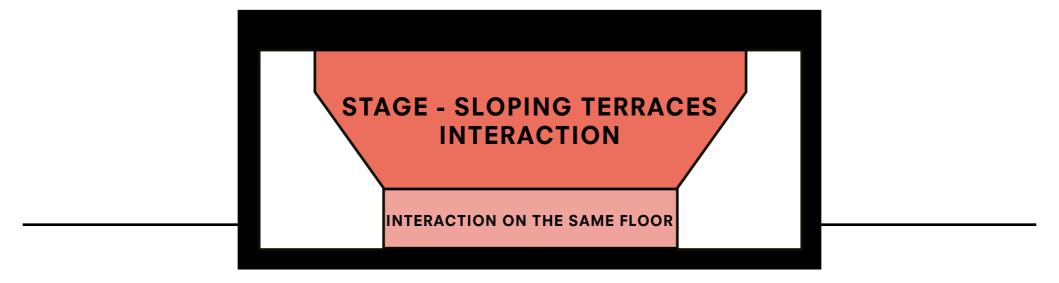
MUSIC BUNKER



Utilize the bunker's interior as a cultural venue for historical experiences by vertically staking two performing arts spaces based on required height

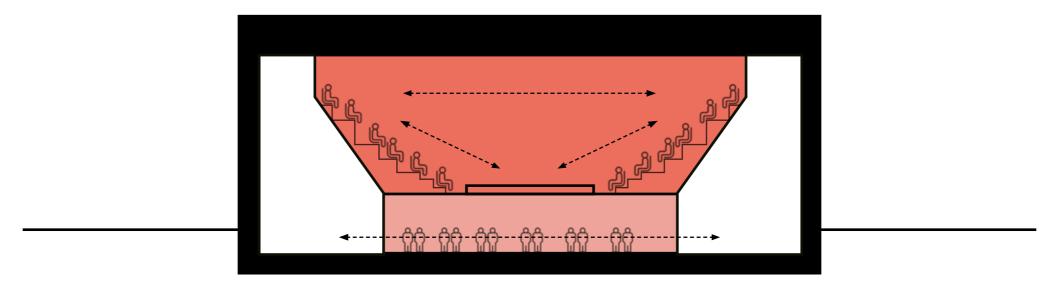


Performing arts space types for intimate theatrical/ musical experience



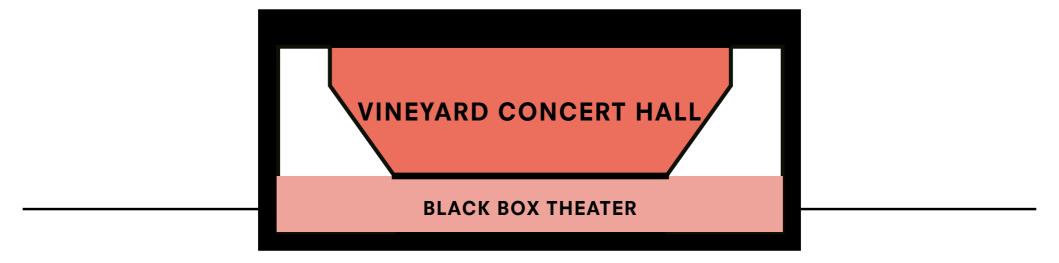
Performing arts space types for intimate theatrical/ musical experience

MUSIC BUNKER

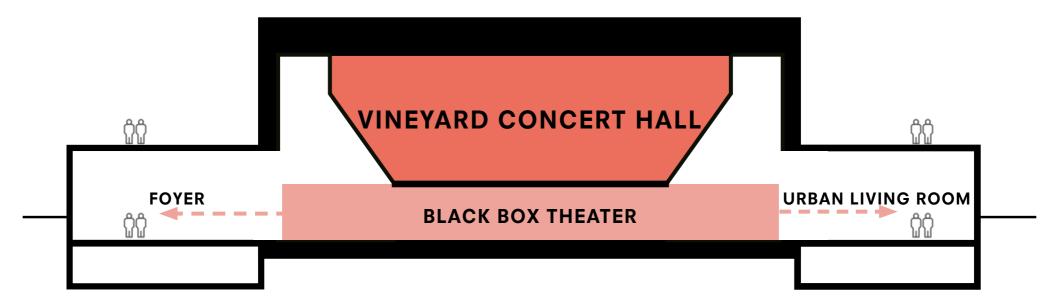


Performing arts space types for intimate theatrical/ musical experience

MUSIC BUNKER

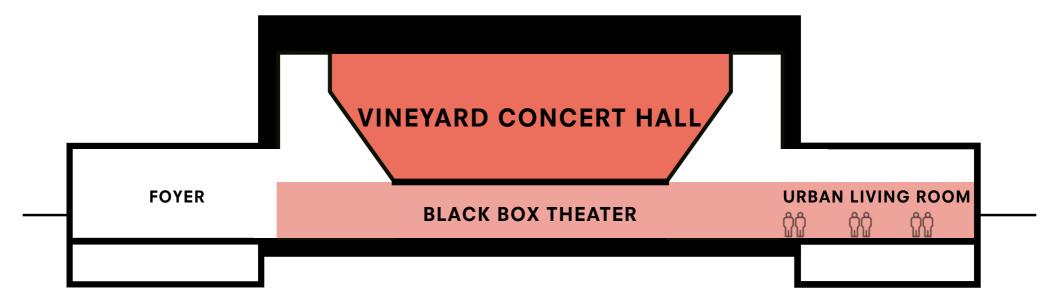


Design Concept MUSIC BUNKER



Horizontal extension - Expansion and utilization of bunker strata

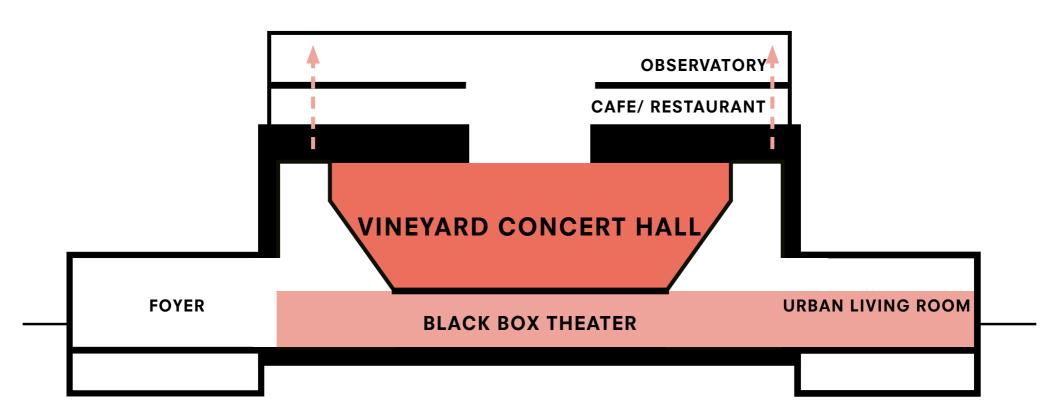
Design Concept MUSIC BUNKER



Horizontal extension - Expansion and utilization of bunker strata

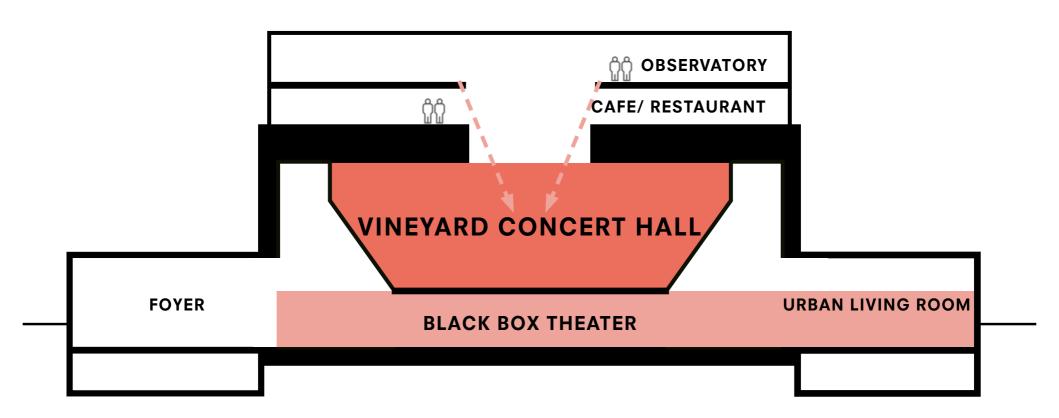
72

MUSIC BUNKER

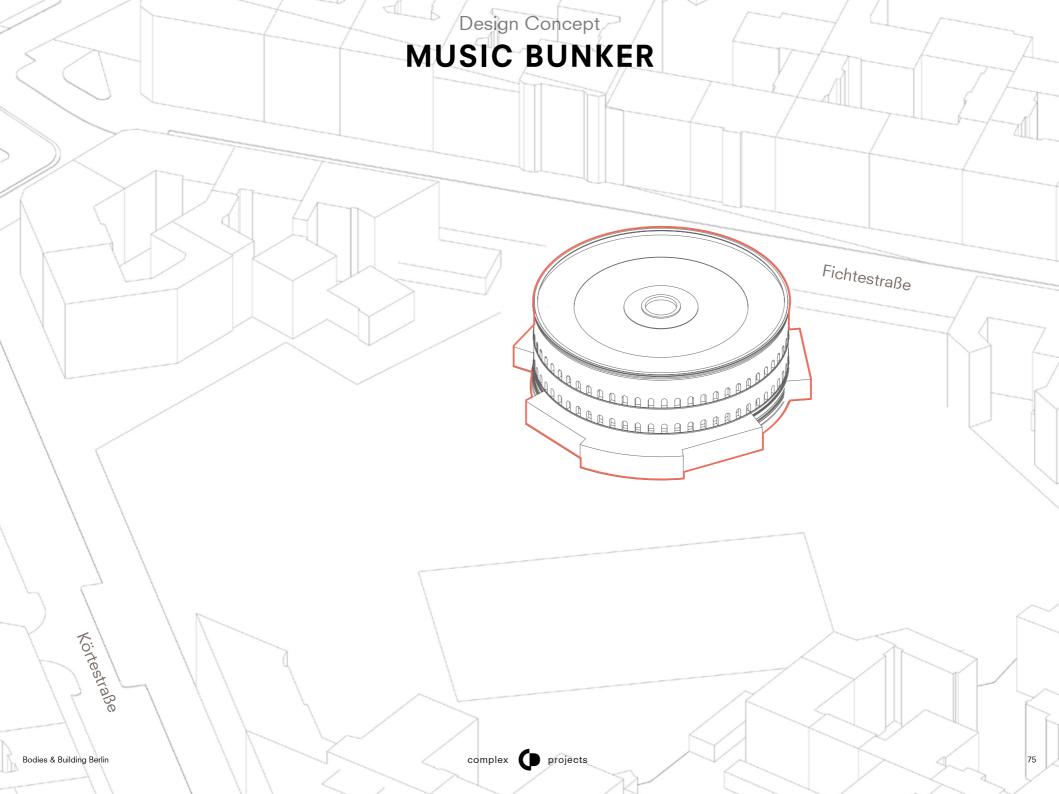


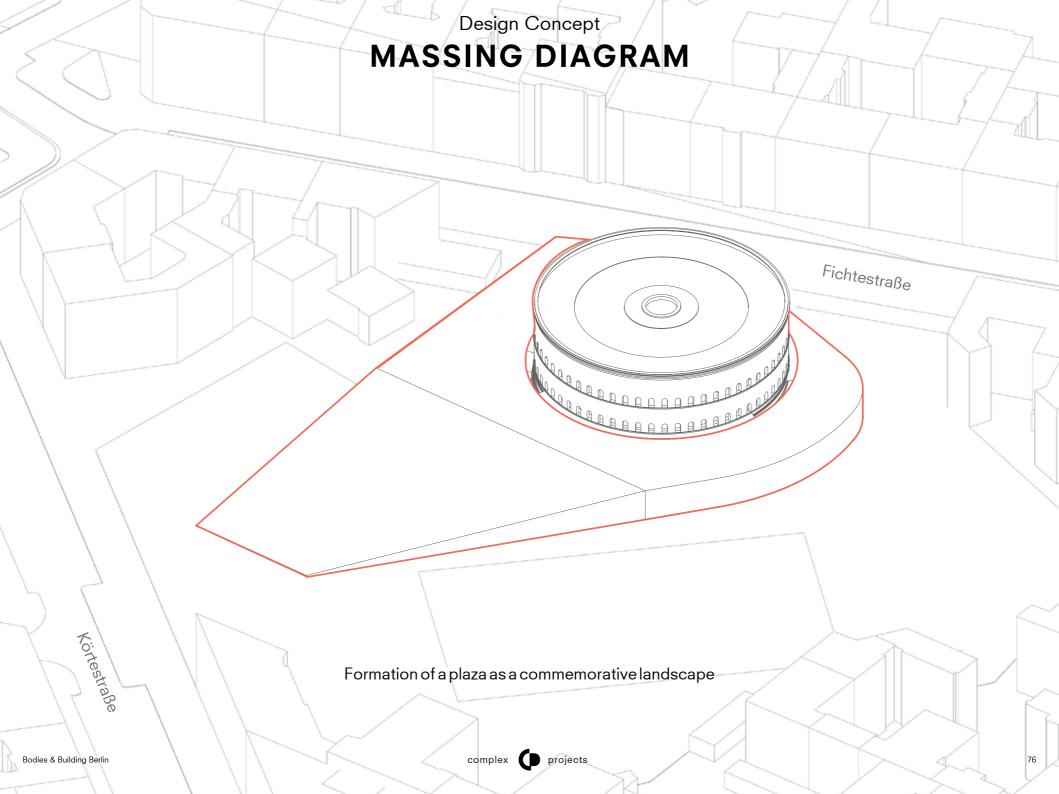
Vertical extension - Possibility of expansion of public space

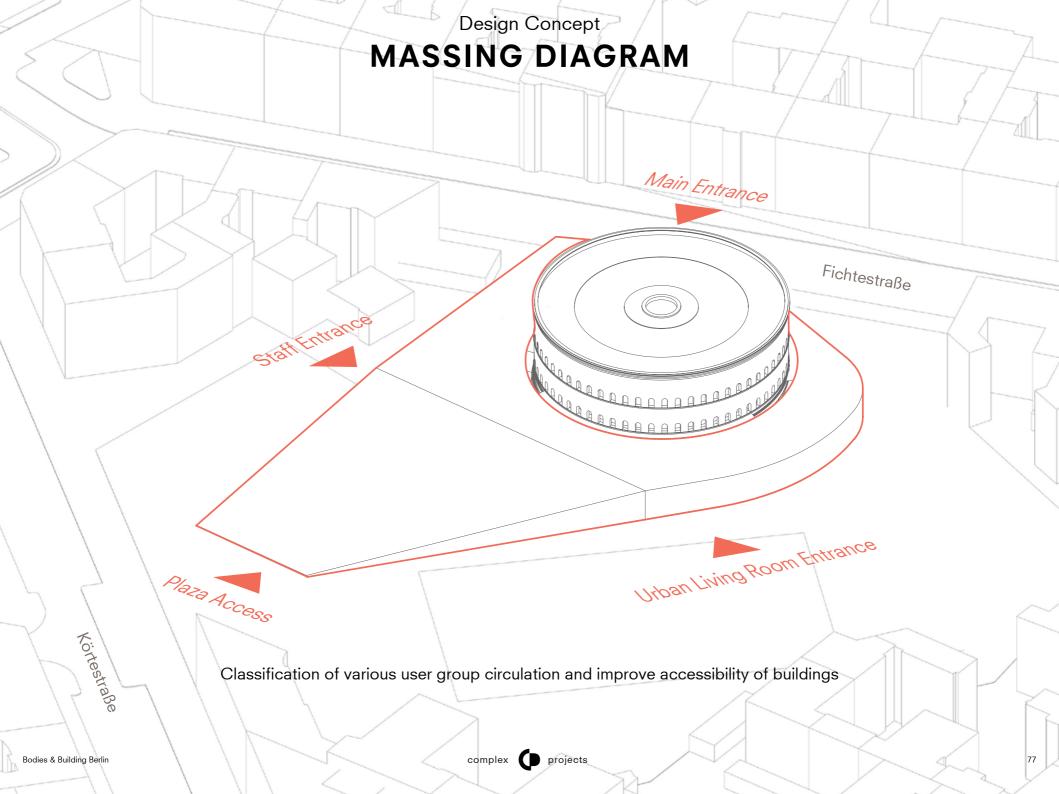
MUSIC BUNKER

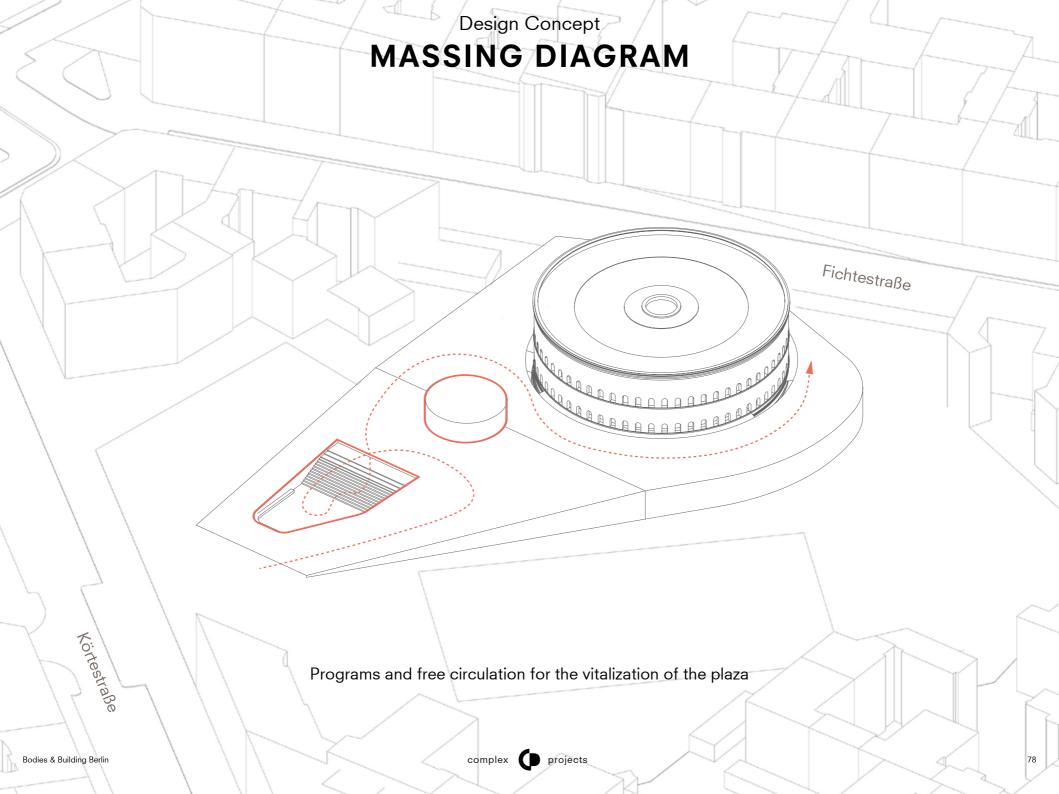


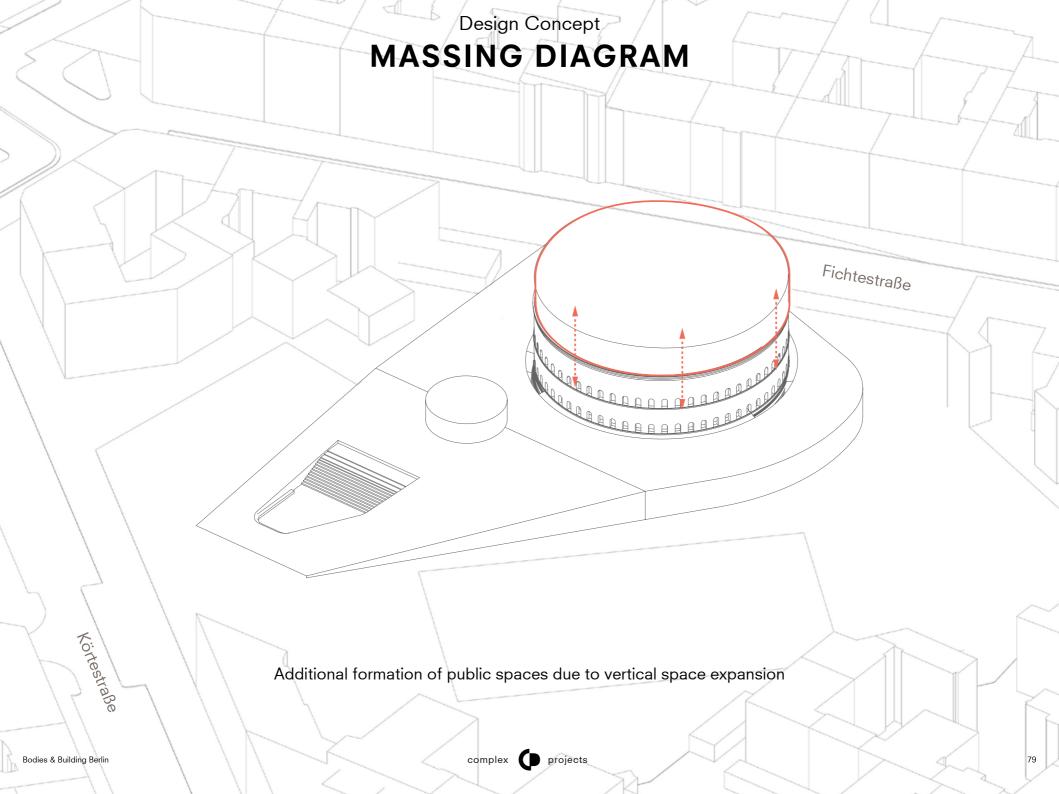
Vertical extension - Possibility of expansion of public space





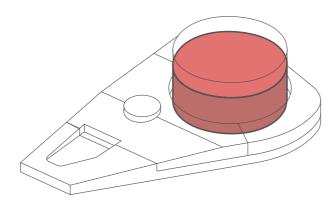






PROGRAM MASSING DIAGRAM

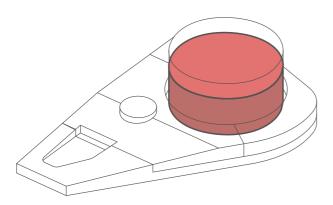
Auditorium Area



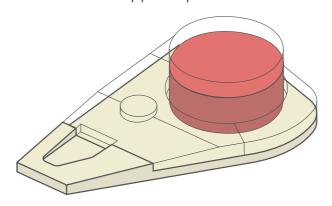
Main Concert Hall + Black Box theater

PROGRAM MASSING DIAGRAM





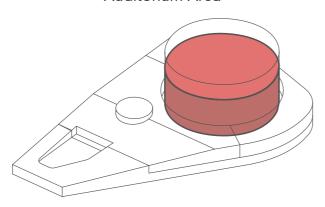
Support Space



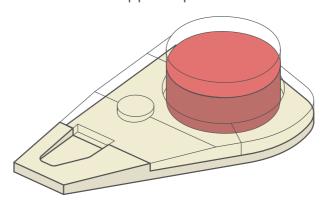
Circulation + Technical + Parking Lot

PROGRAM MASSING DIAGRAM

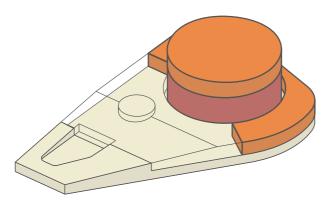
Auditorium Area



Support Spcae



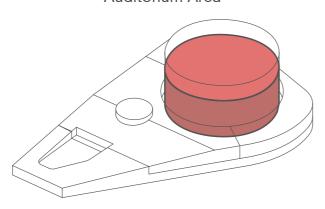
Public Space



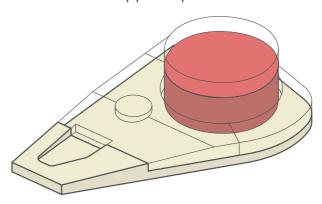
Foyer + Urban living Room + Restaurant

PROGRAM MASSING DIAGRAM

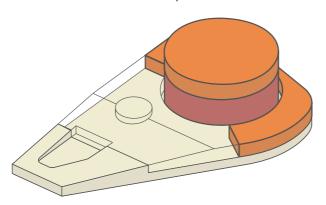
Auditorium Area



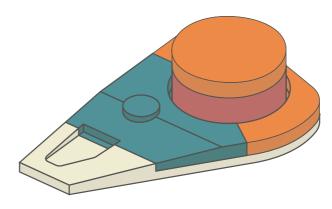
Support Spcae



Public Space



Back of House



Workshops + Administration

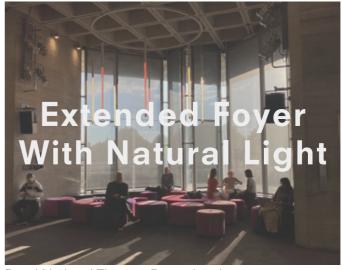
DESIGN STRATEGY



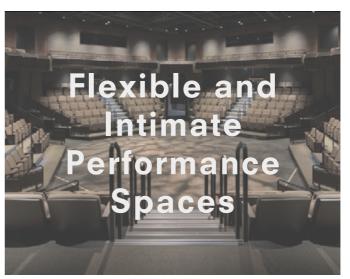
Mercury Store, CO Adaptive Architecture



Perelman Performing Arts Center, REX



Royal National Theatre, Denys Lasdun



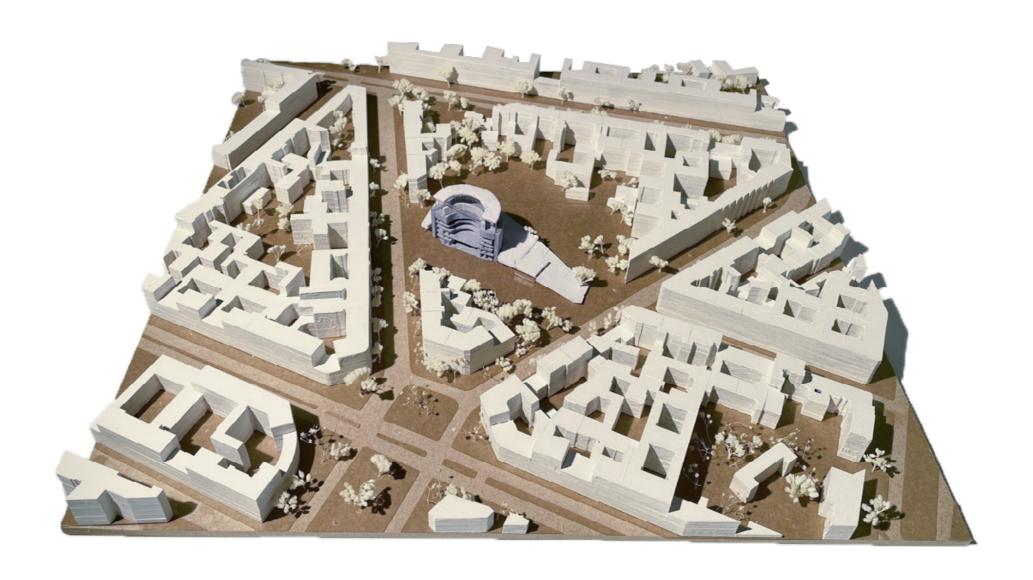
DCPA Theatre, Semple Brown Architects







CONTRAST BETWEEN OLD AND NEW

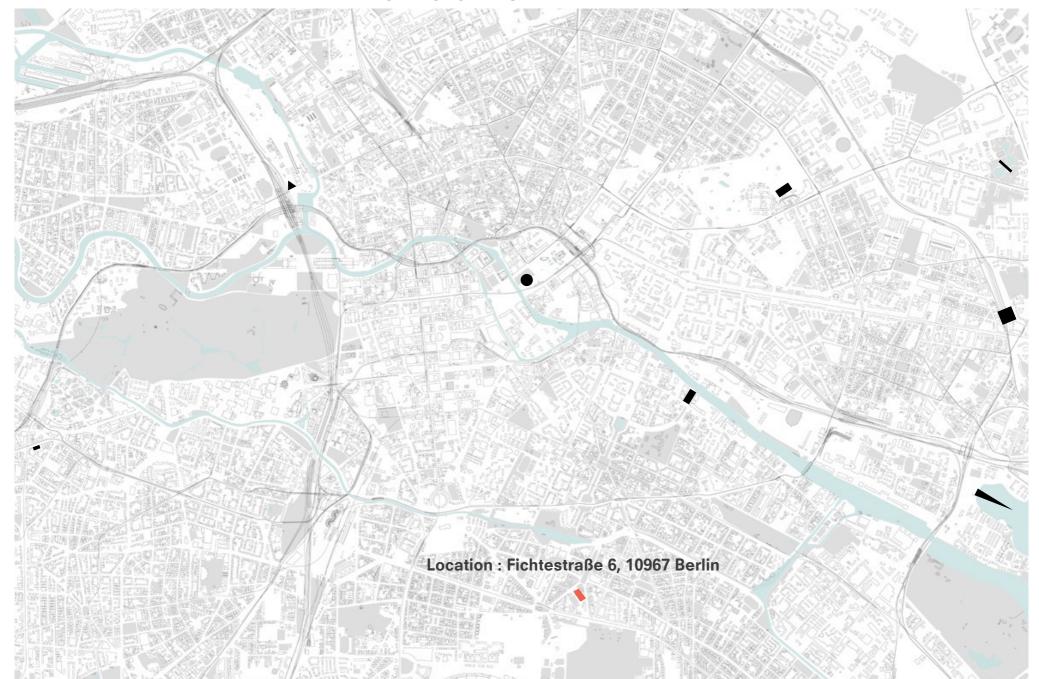


CONTRAST BETWEEN OLD AND NEW



IMPLEMENTATION

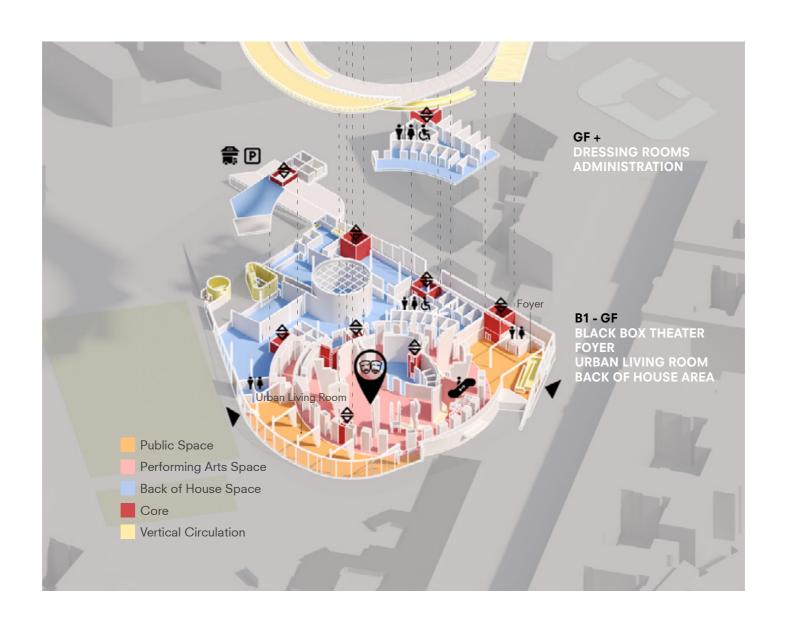
GROUP SITE PLAN



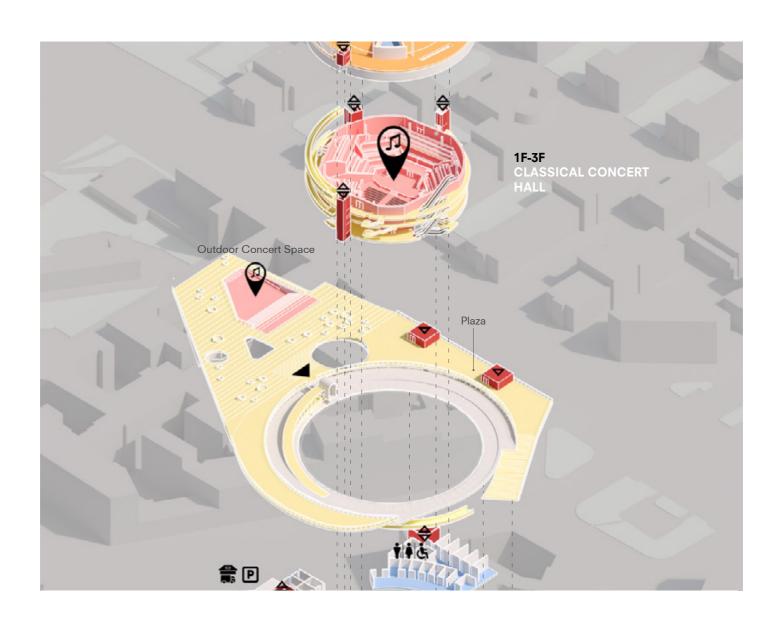
SITE PLAN



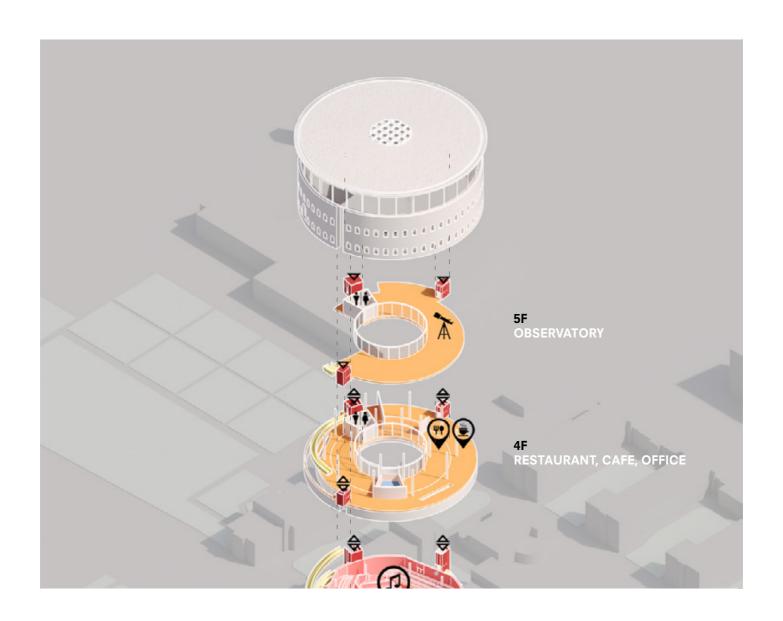
ZONING AND CIRCULATION



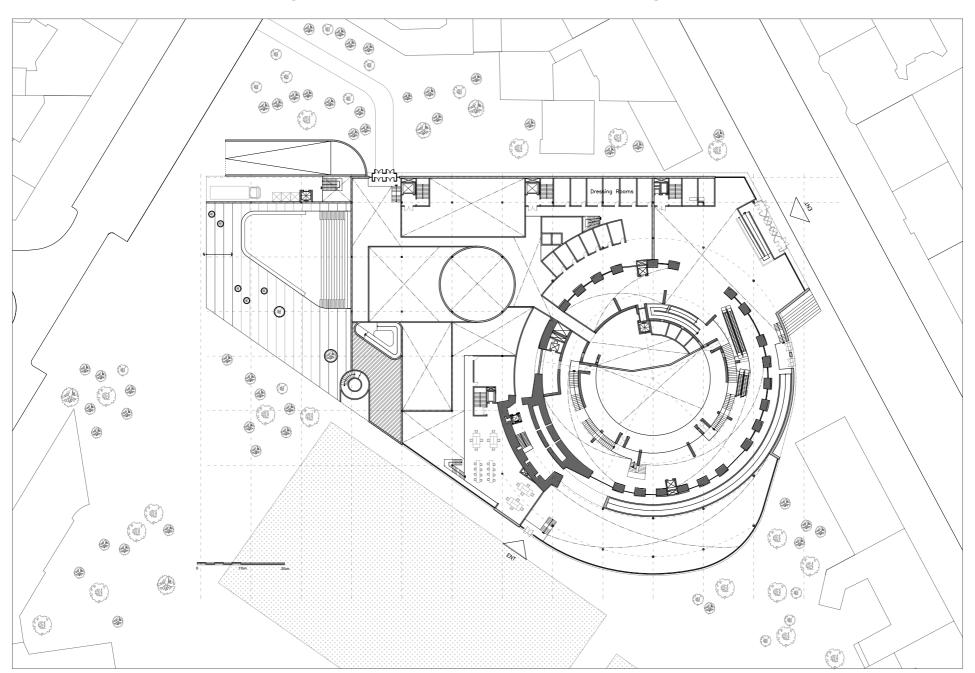
ZONING AND CIRCULATION



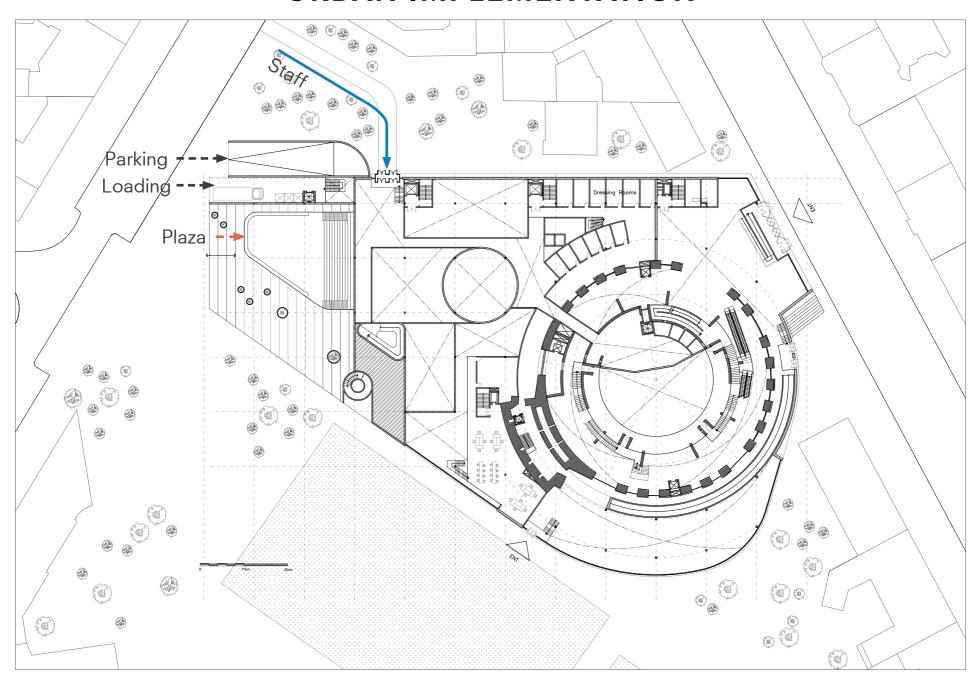
ZONING AND CIRCULATION



URBAN IMPLEMENTATION



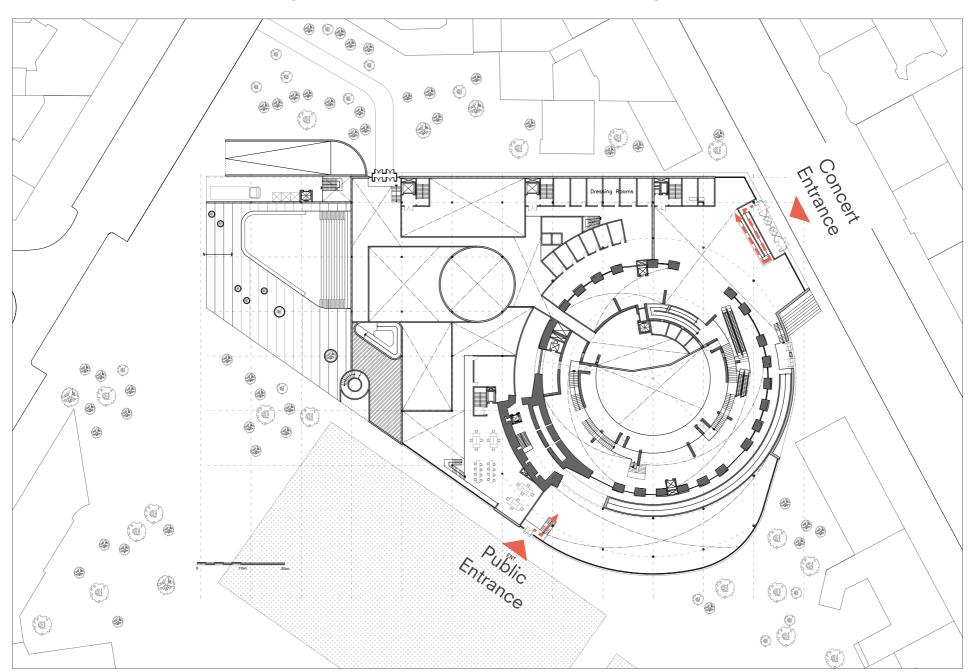
URBAN IMPLEMENTATION



PLAZA ACCESS



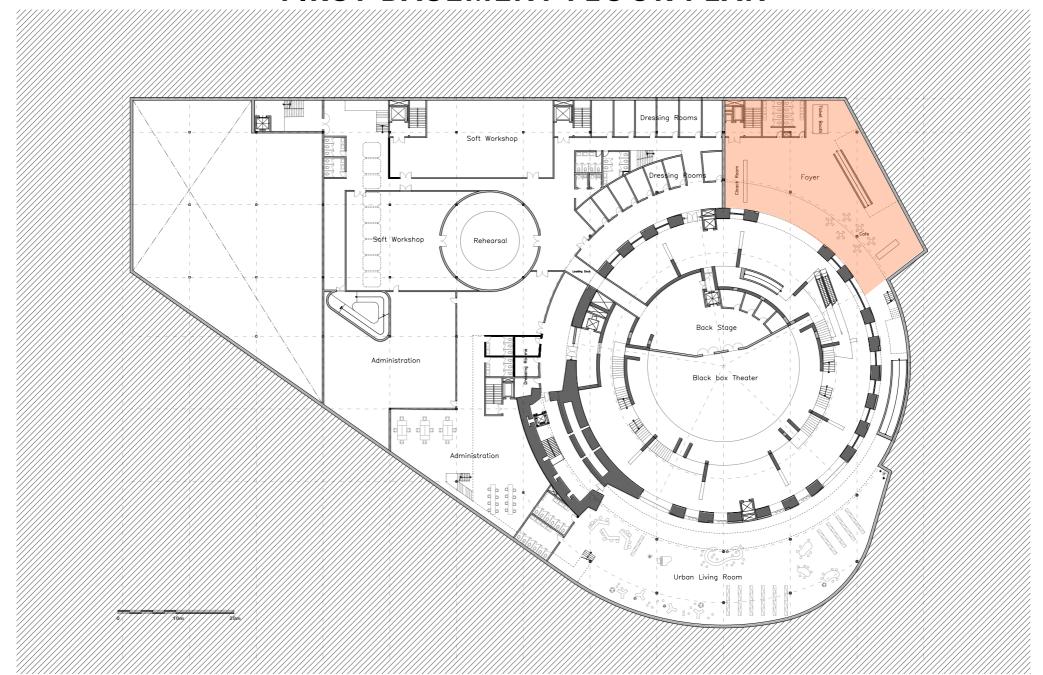
URBAN IMPLEMENTATION



EAST FACADE



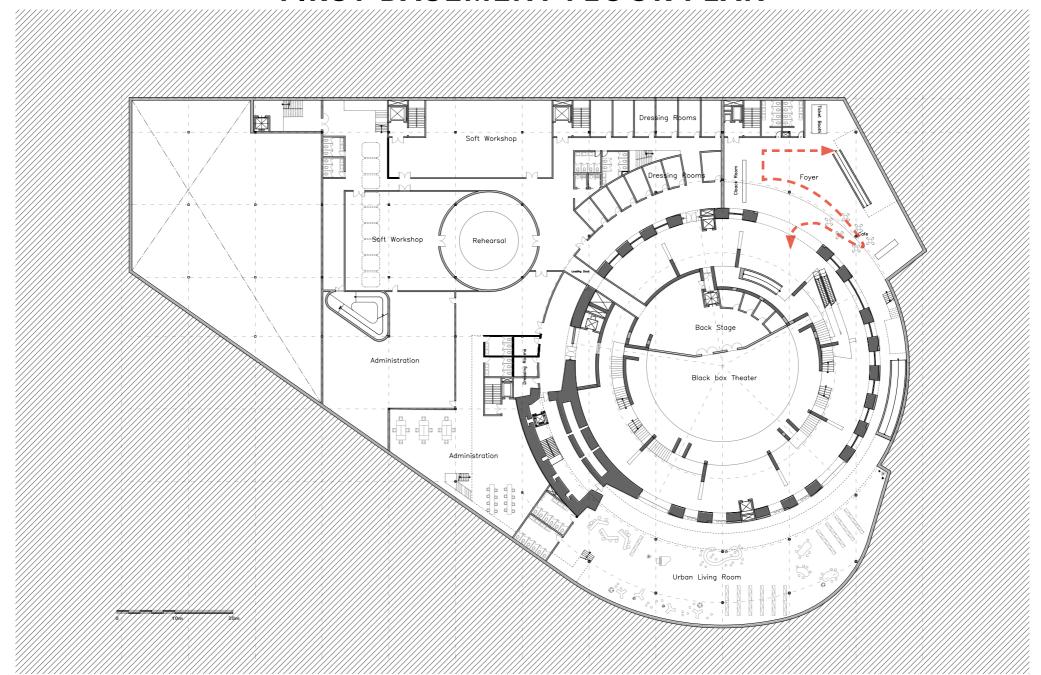
FIRST BASEMENT FLOOR PLAN



FOYER



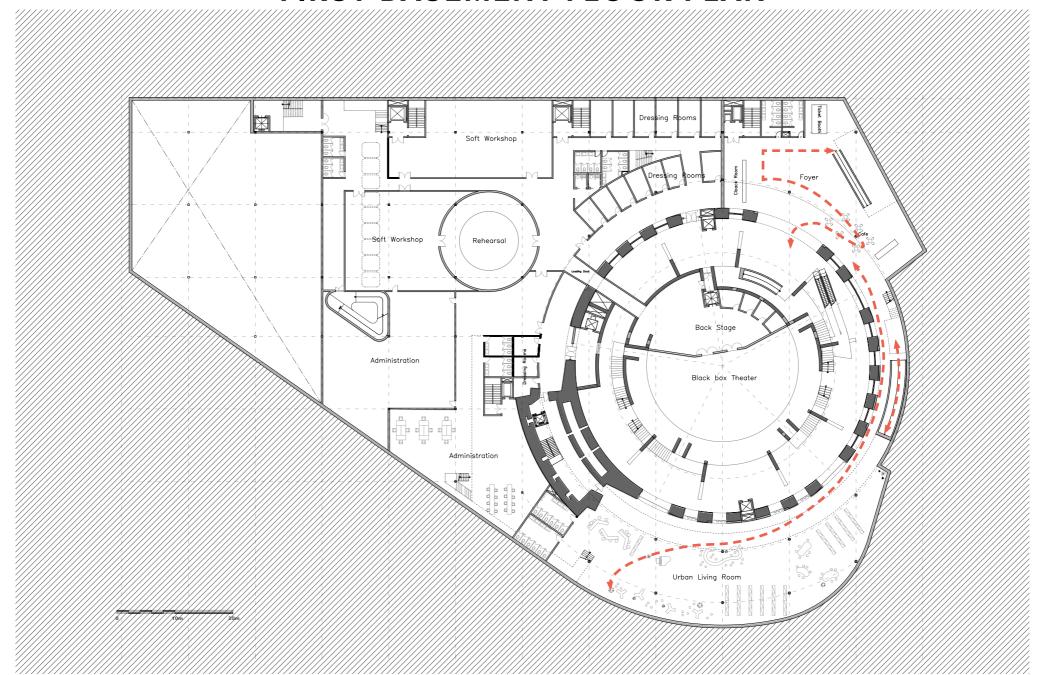
FIRST BASEMENT FLOOR PLAN



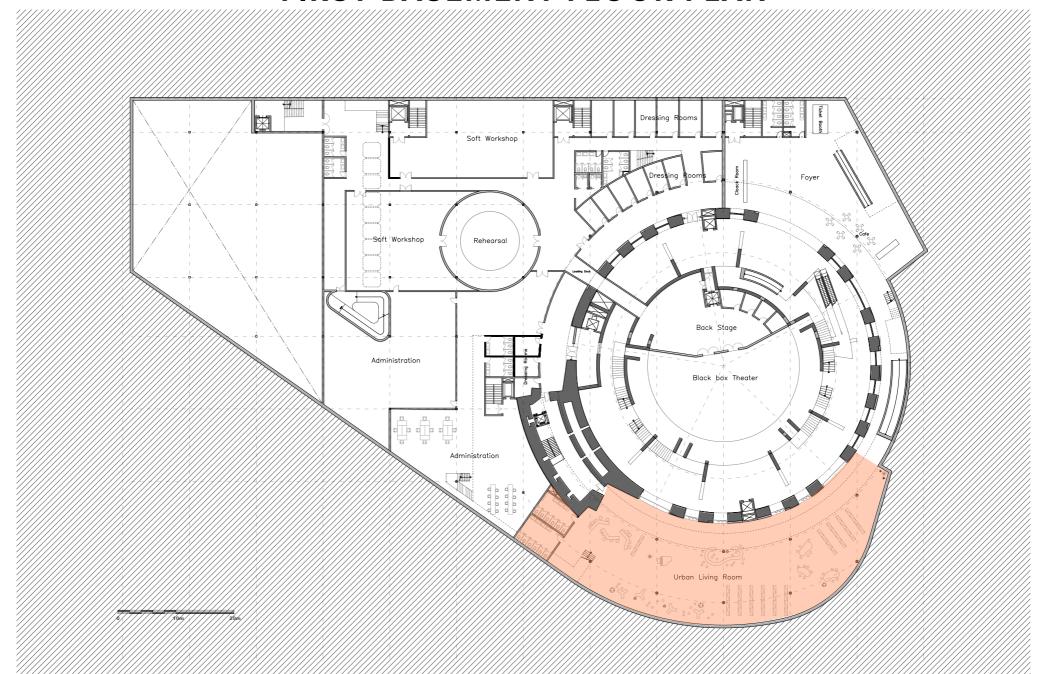
HALLWAY



FIRST BASEMENT FLOOR PLAN



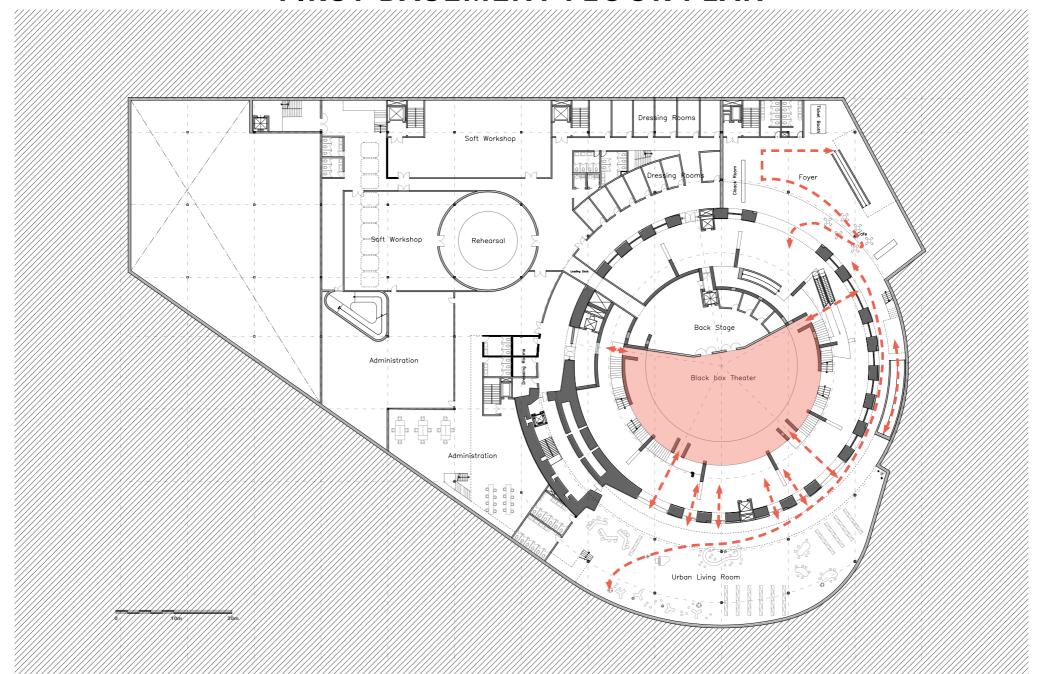
FIRST BASEMENT FLOOR PLAN



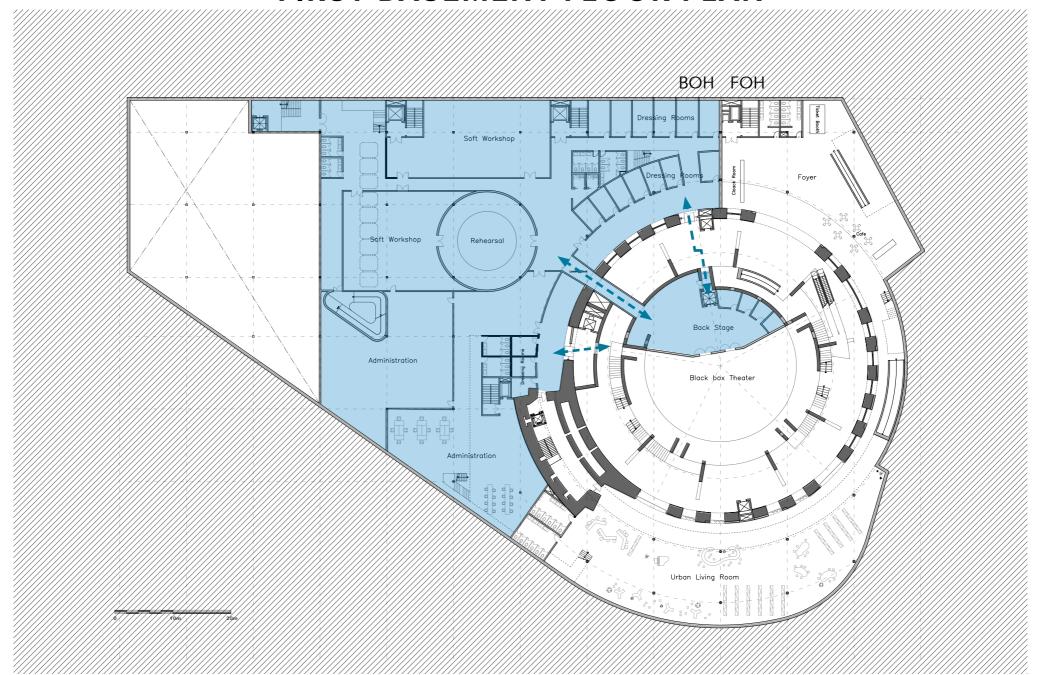
URBAN LIVING ROOM



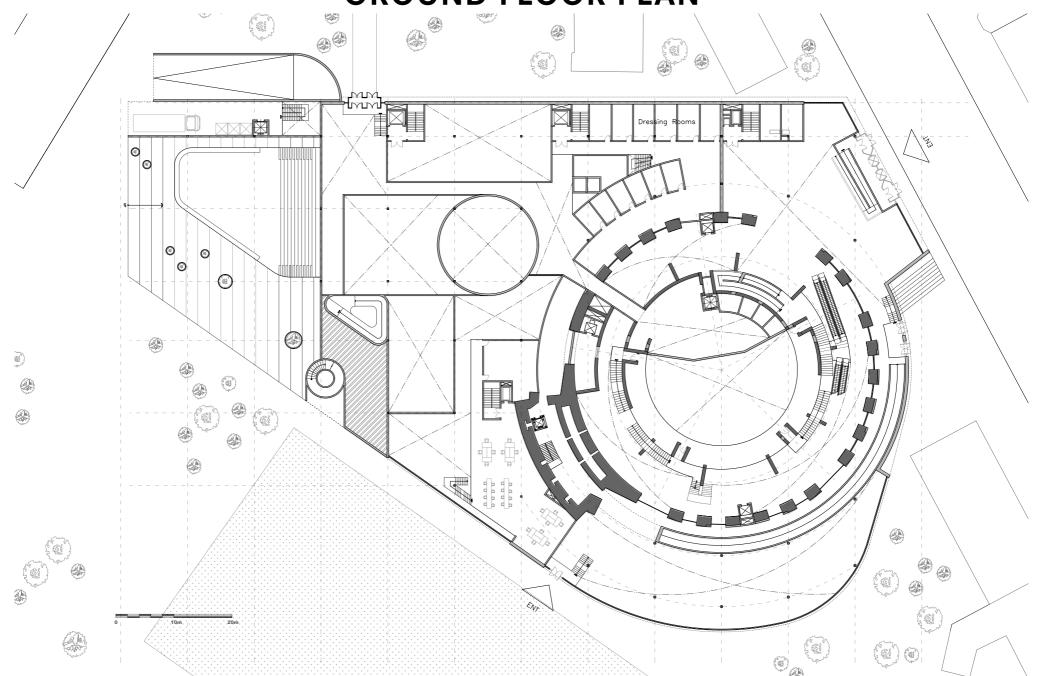
FIRST BASEMENT FLOOR PLAN



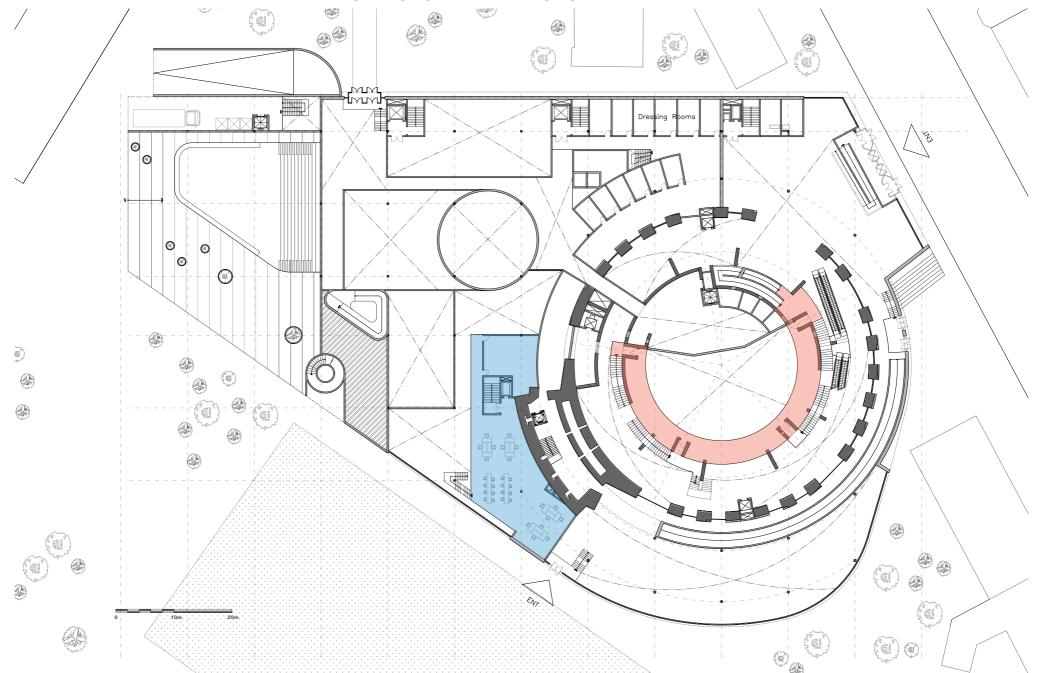
FIRST BASEMENT FLOOR PLAN



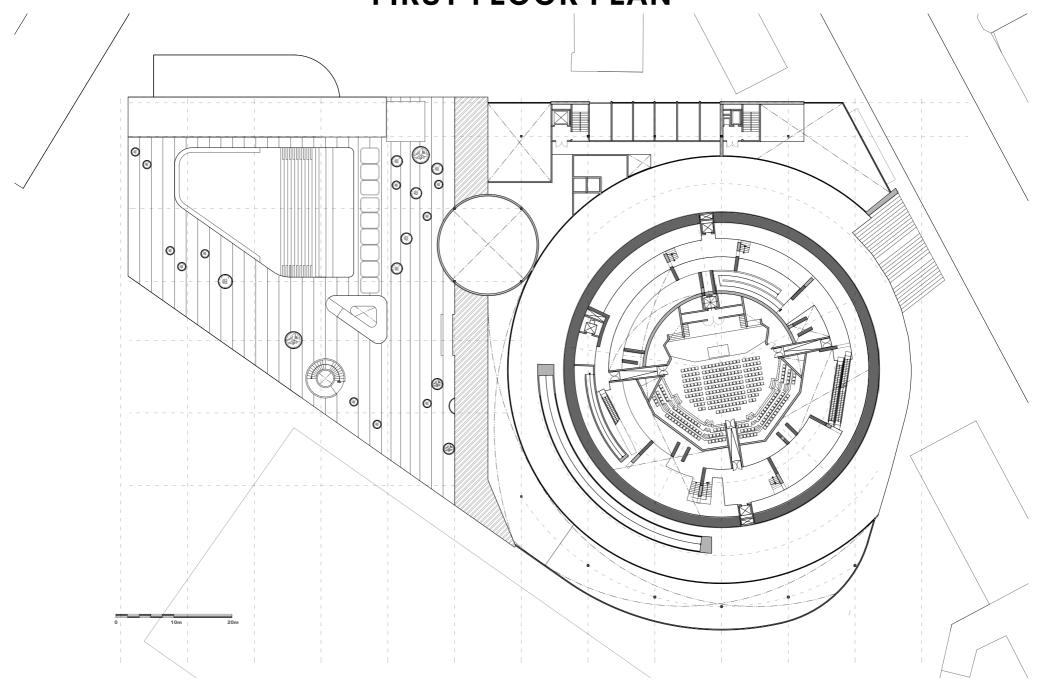
GROUND FLOOR PLAN



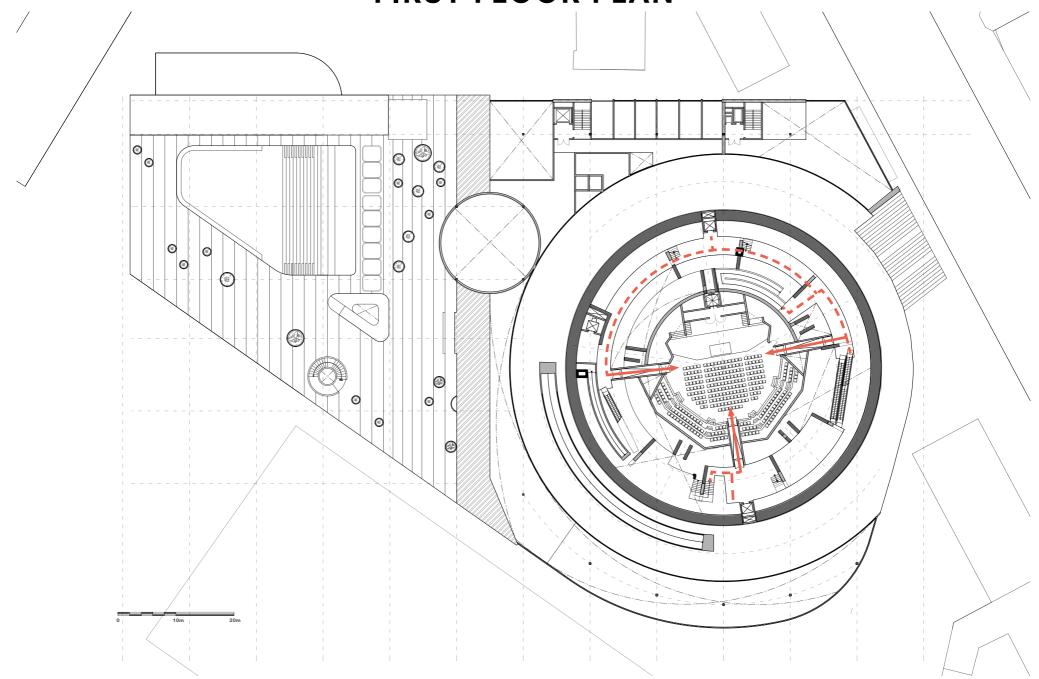
GROUND FLOOR PLAN



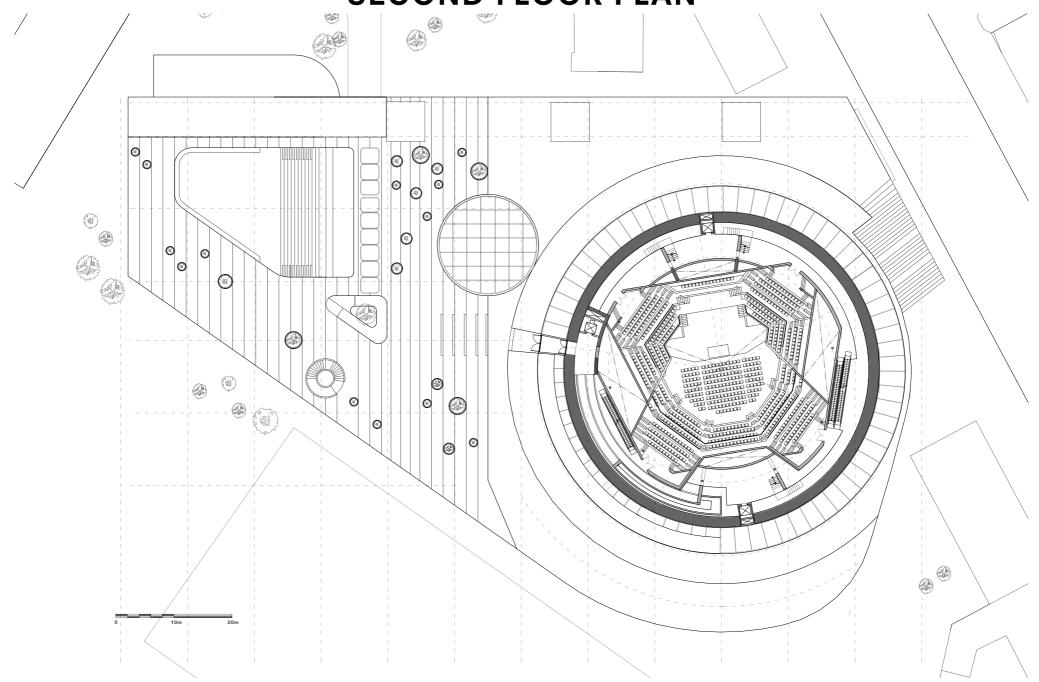
FIRST FLOOR PLAN



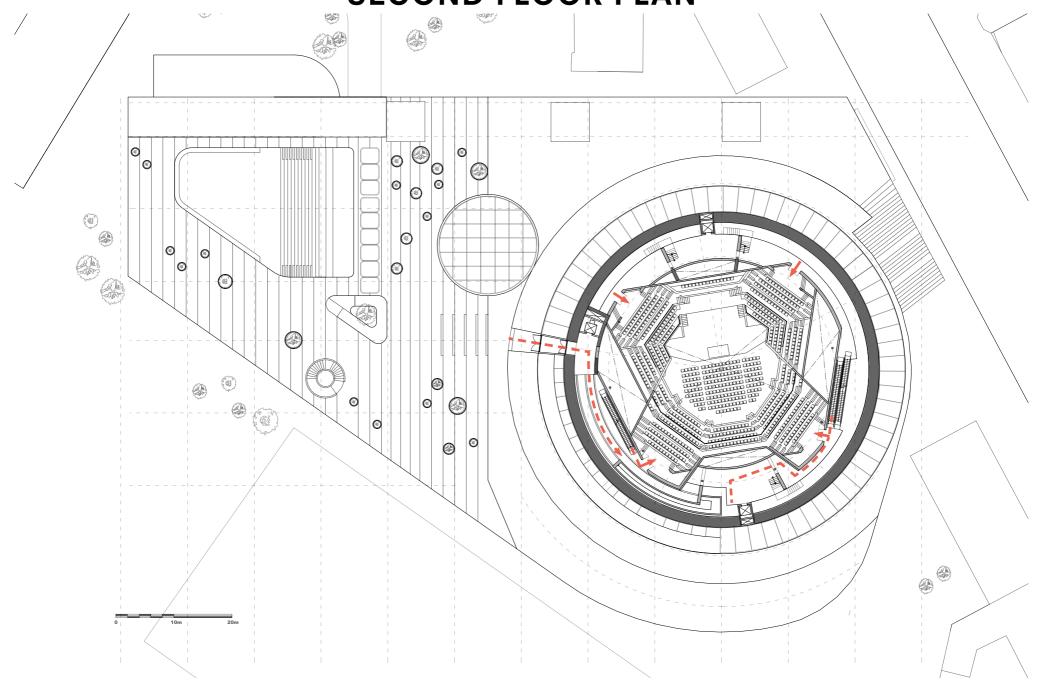
FIRST FLOOR PLAN



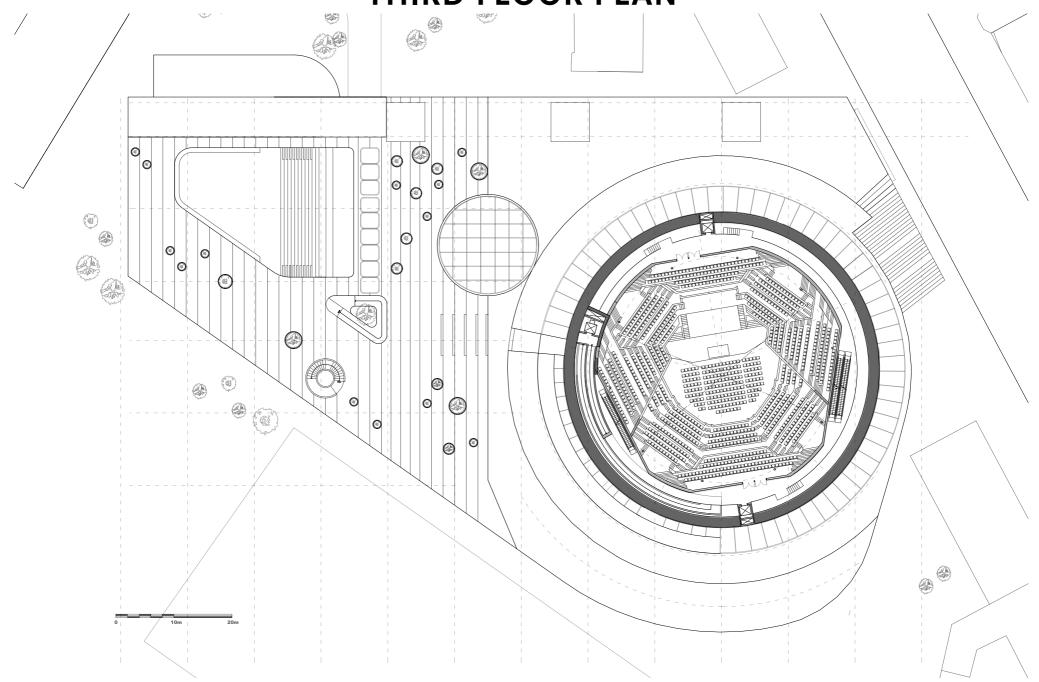
SECOND FLOOR PLAN



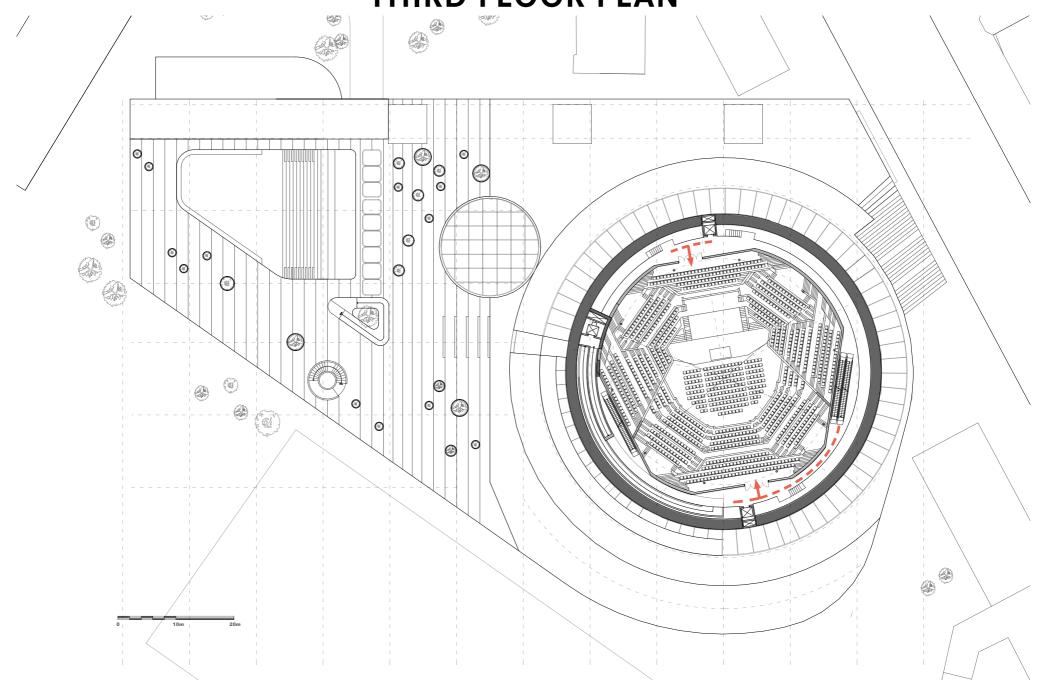
SECOND FLOOR PLAN



THIRD FLOOR PLAN



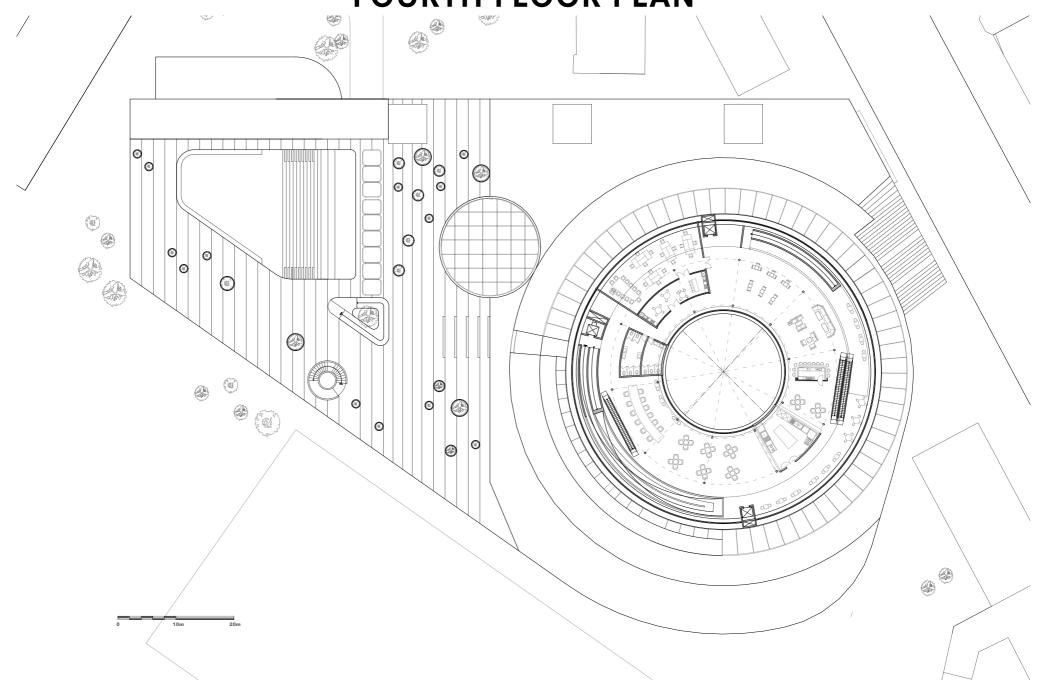
THIRD FLOOR PLAN



CLASSICAL CONCERT HALL



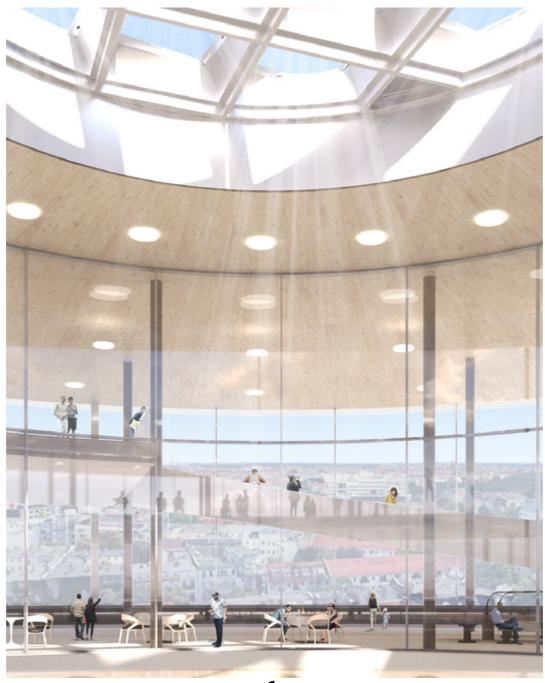
FOURTH FLOOR PLAN



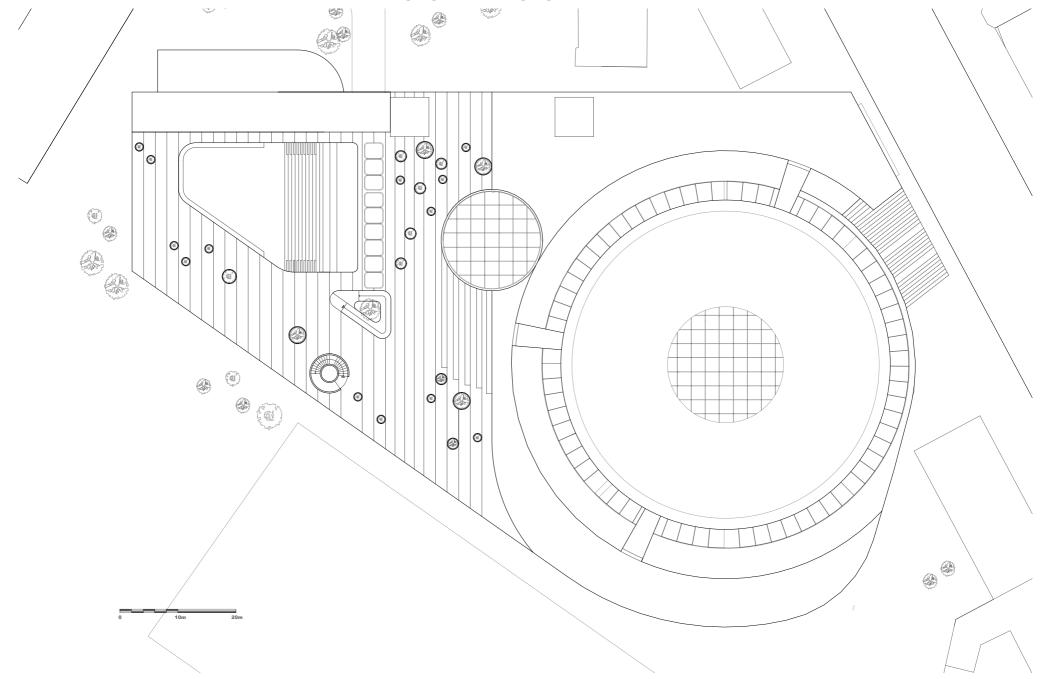
ROOFTOP

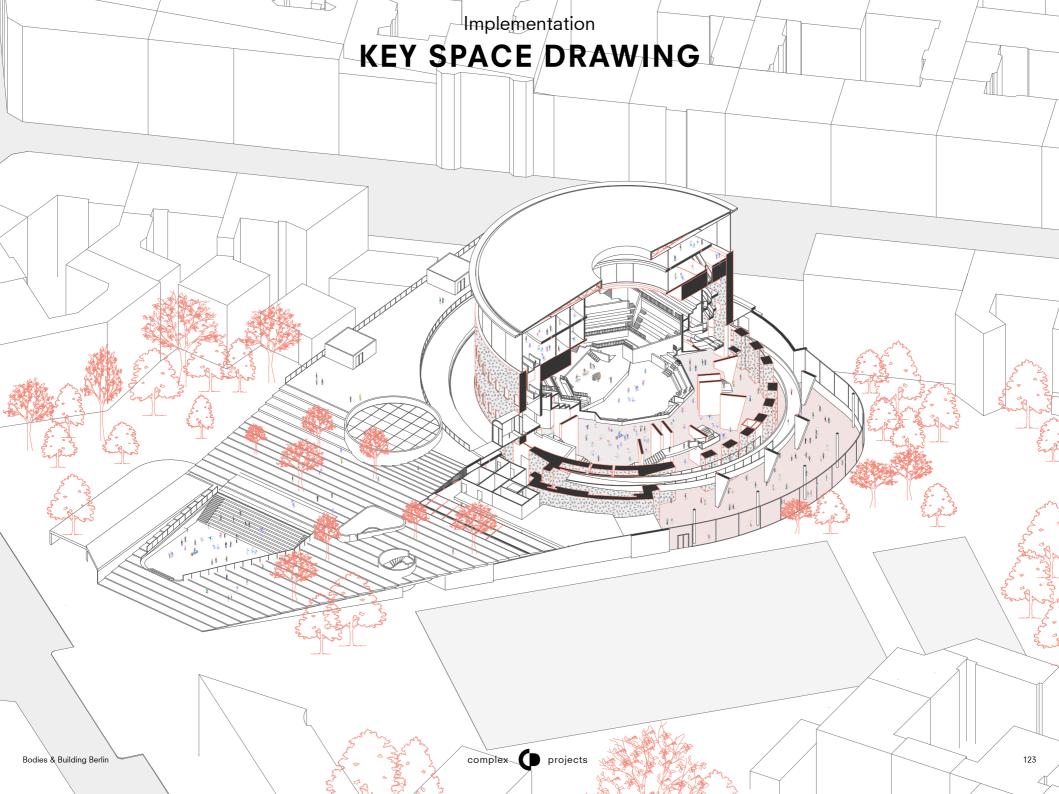


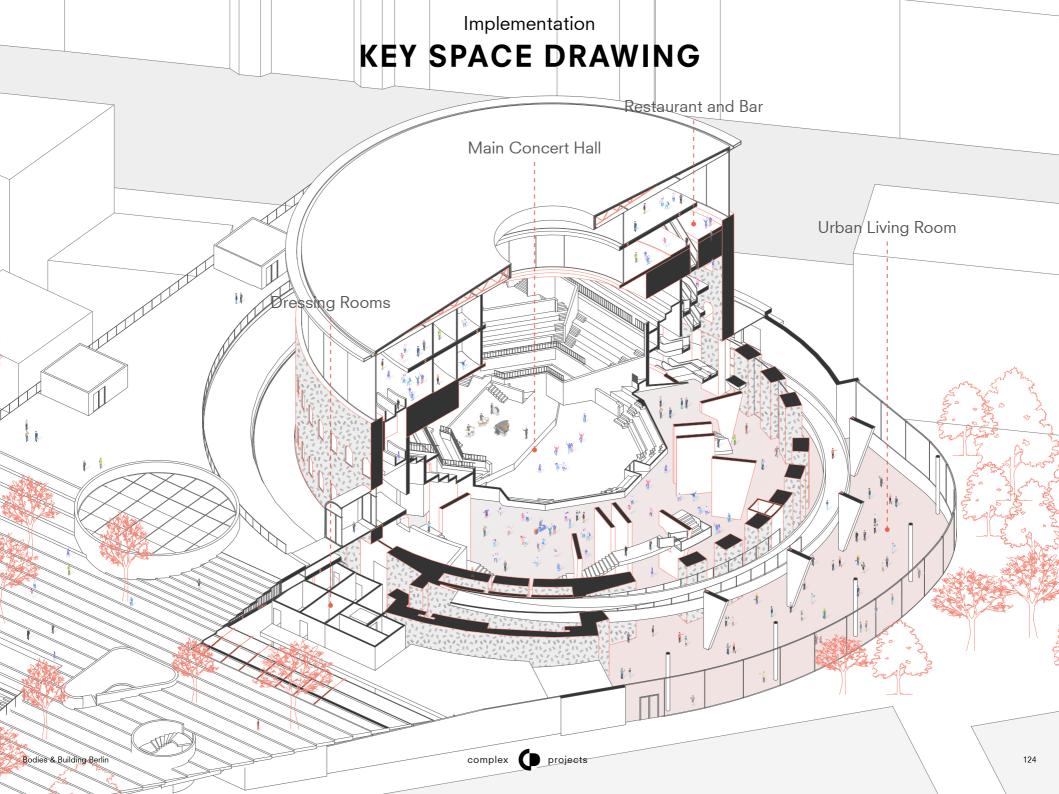
ROOFTOP

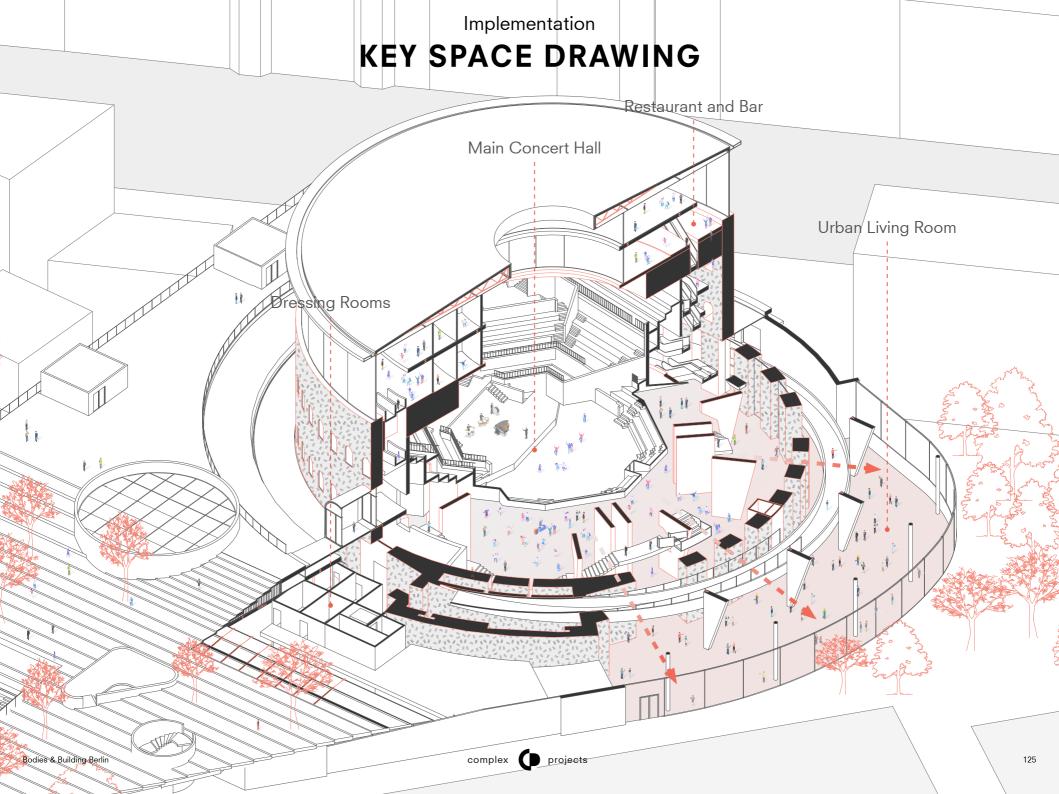


ROOF FLOOR PLAN

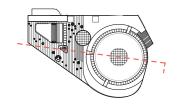


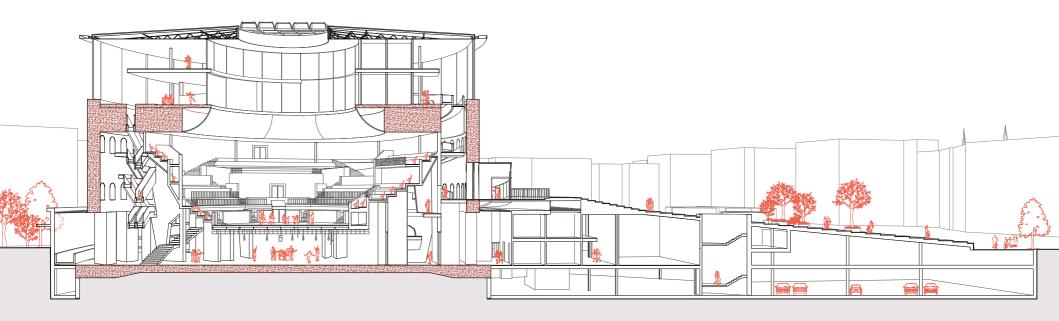




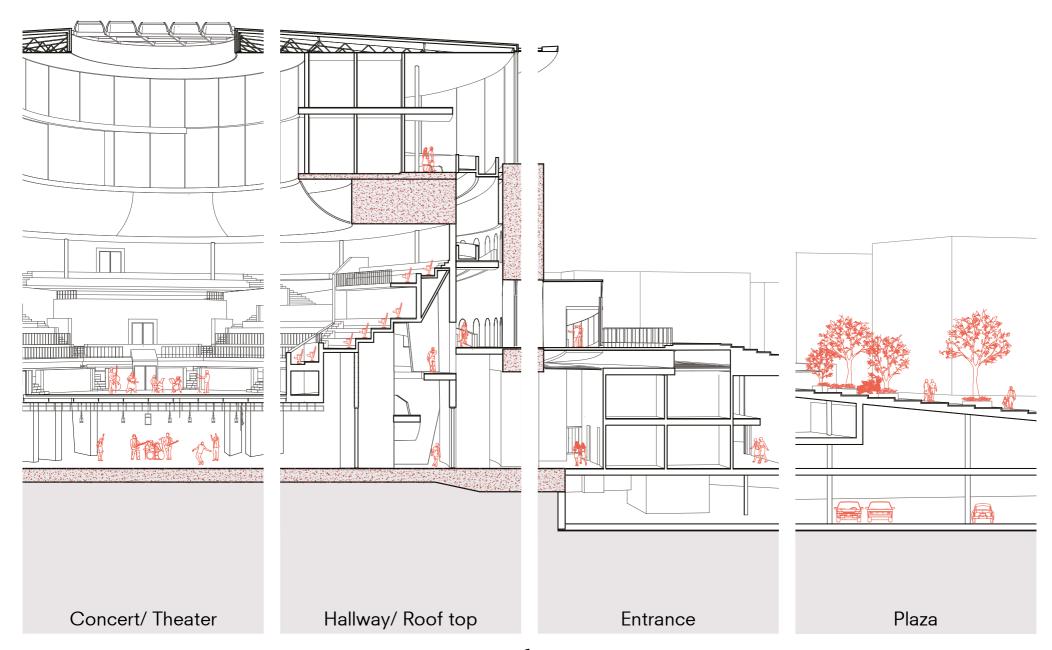


PERSPECTIVE SECTION



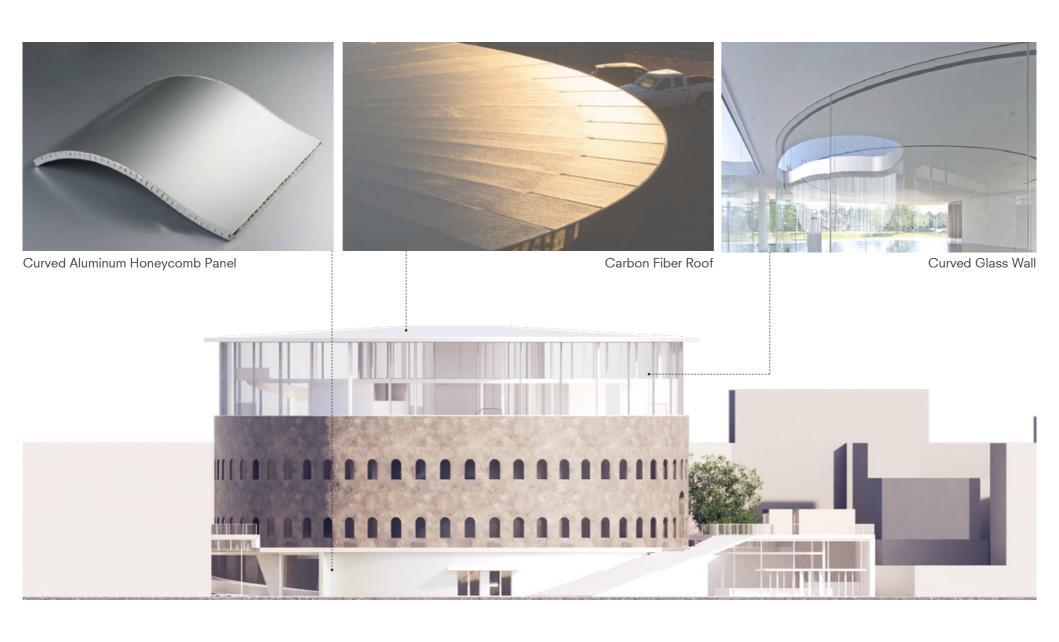


PERSPECTIVE SECTION

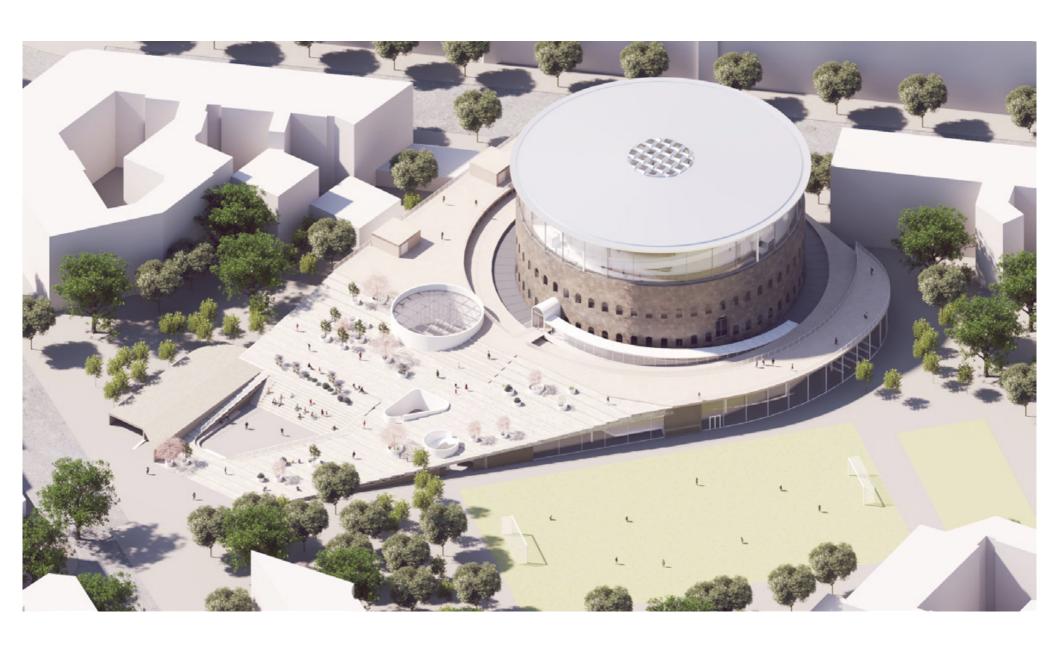


DEVEOLPMENT

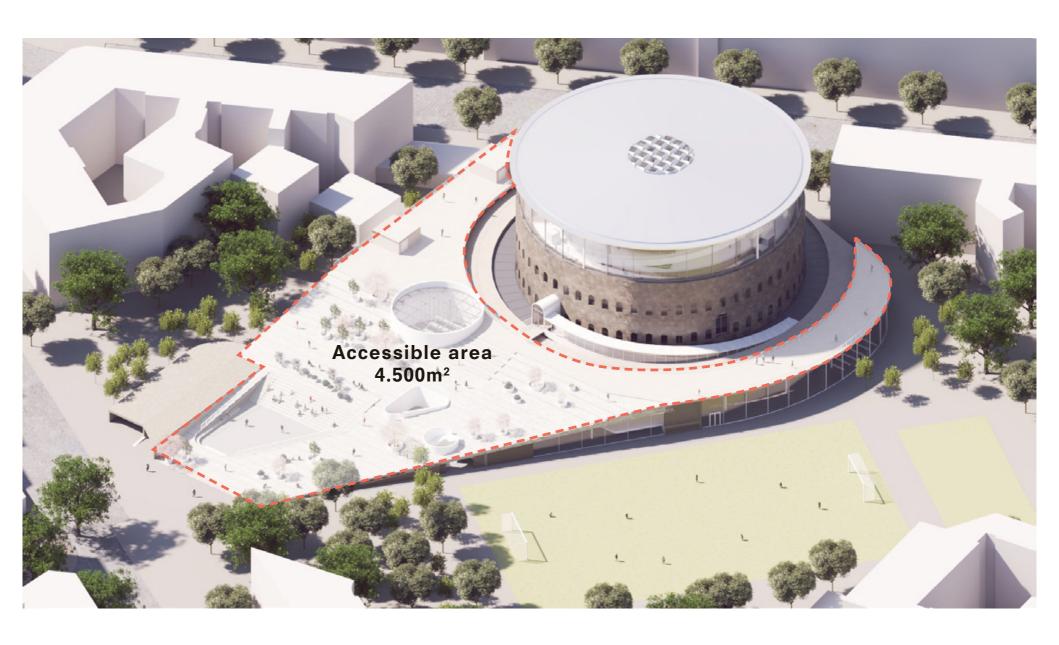
FACADE MATERIAL



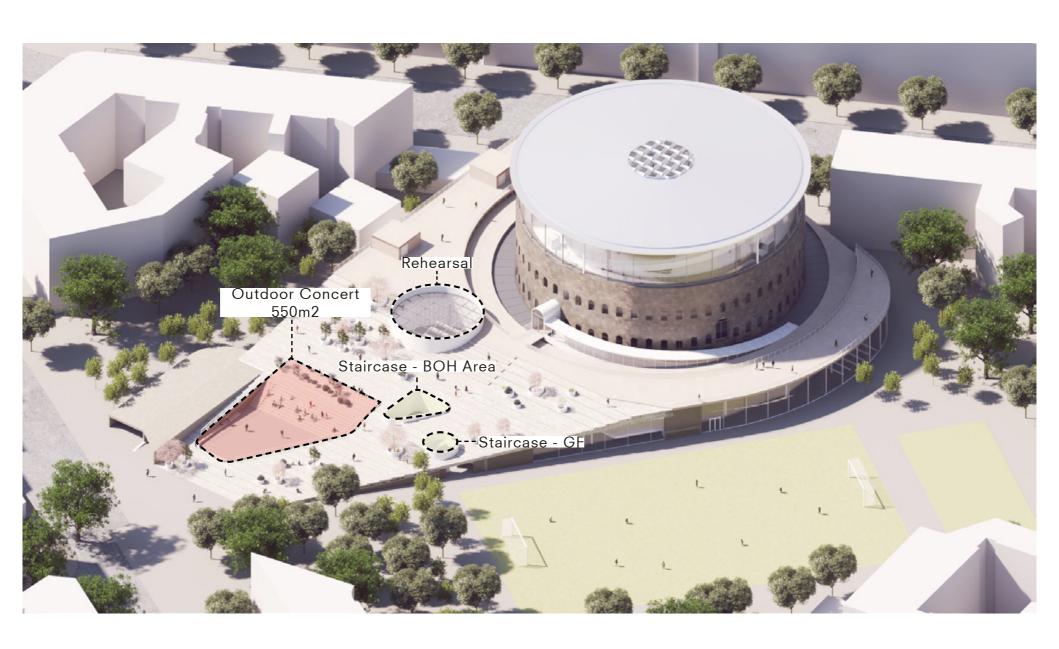
FICHTE COMMEMORATIVE PLAZA



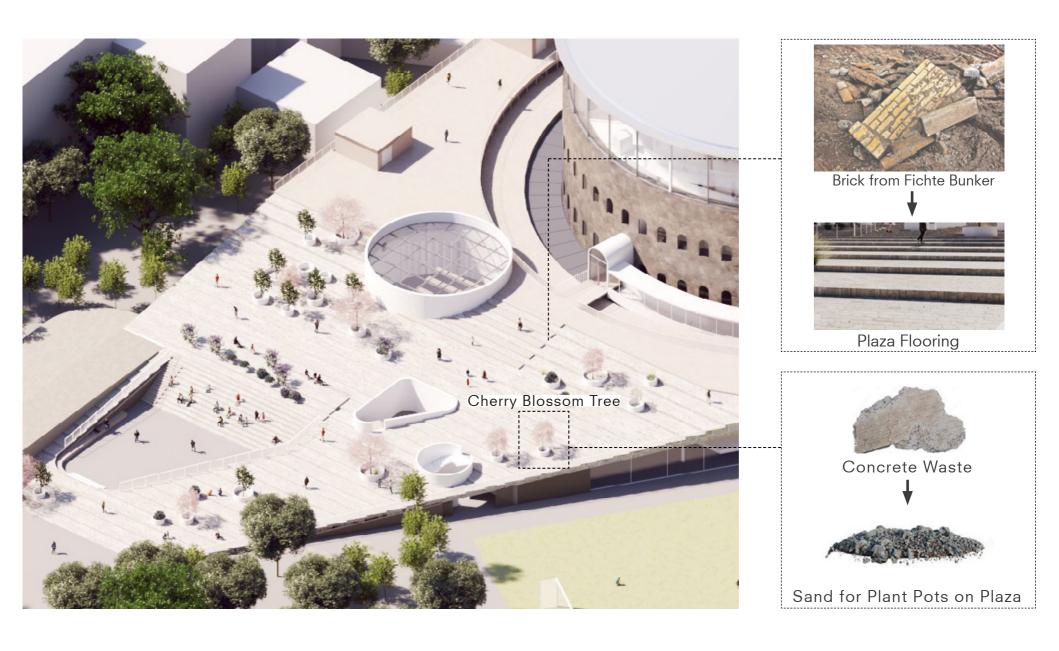
FICHTE COMMEMORATIVE PLAZA



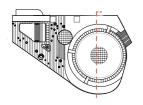
FICHTE COMMEMORATIVE PLAZA

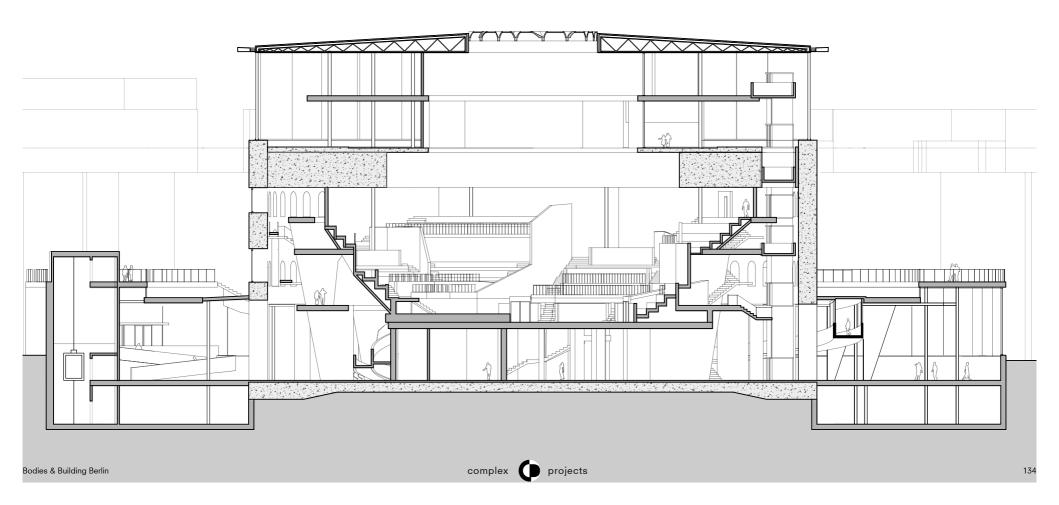


MATERIAL REUSE FROM FICHTEBUNKER

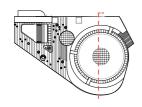


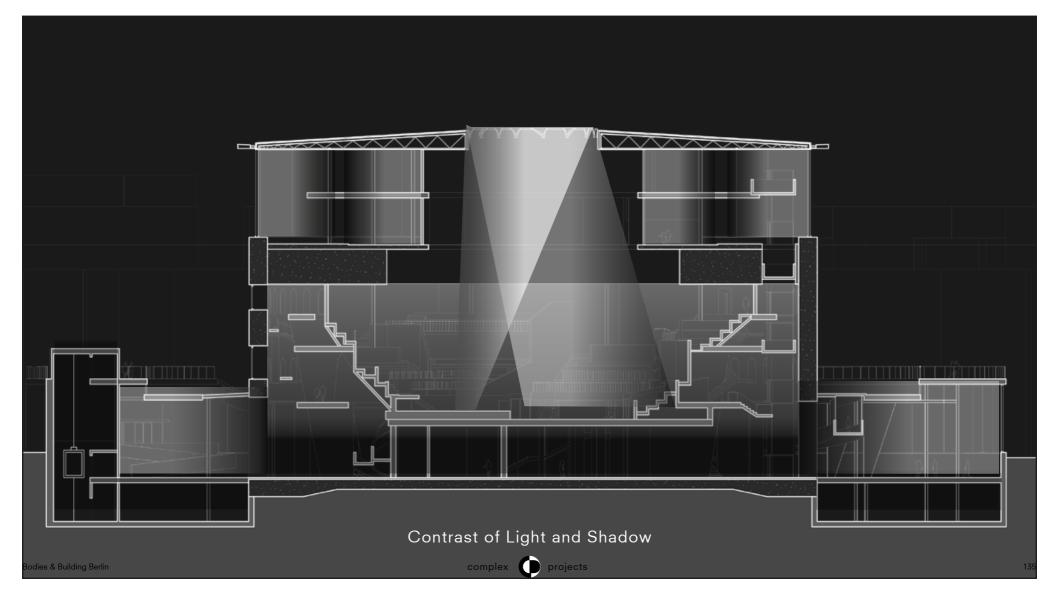
SECTION 1: 200



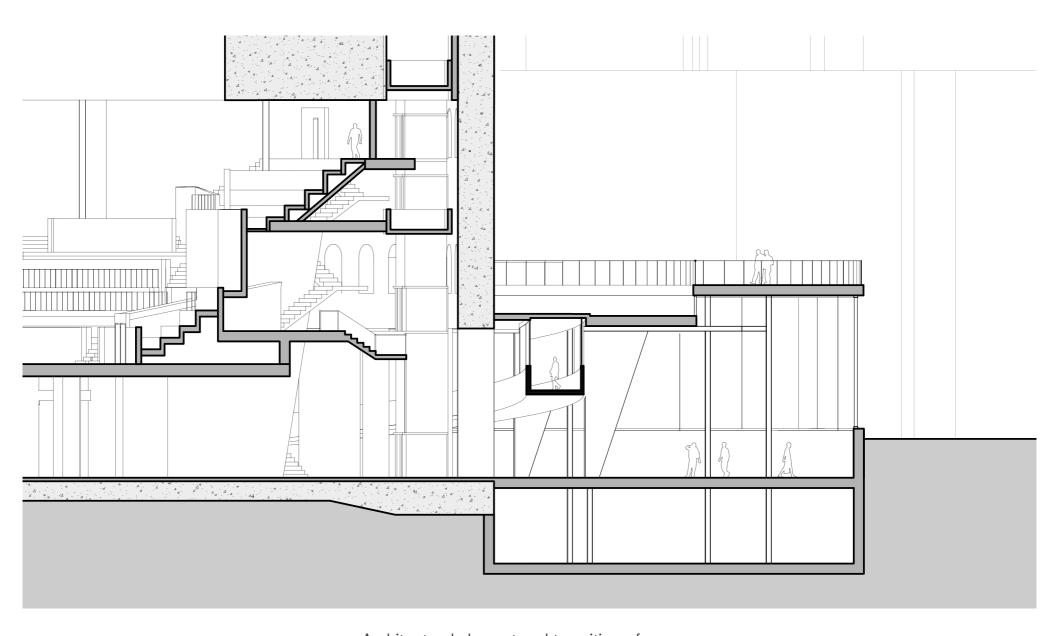


SECTION 1: 200



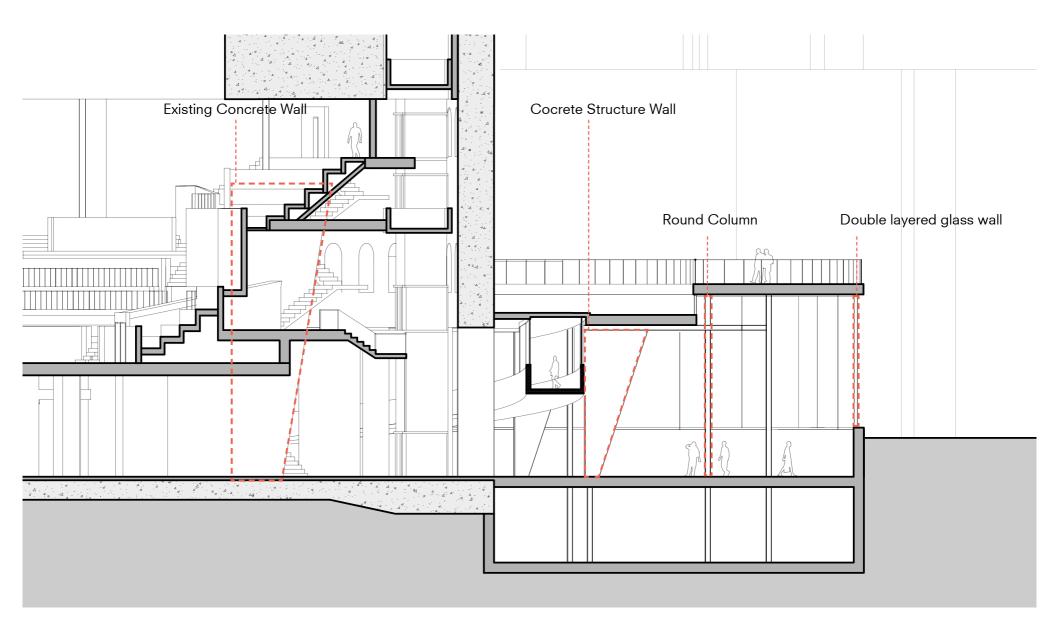


INTERIOR FRAGMENT



Architectural element and transition of spaces

INTERIOR FRAGMENT



Architectural element and transition of spaces

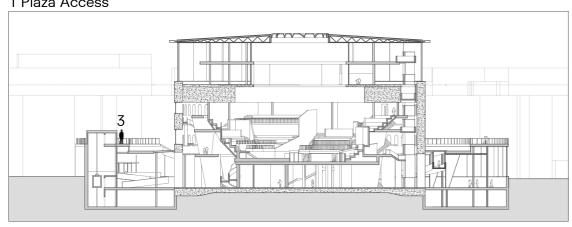
137

IMPRESSION PLAZA AND FACADE





2 East Facade



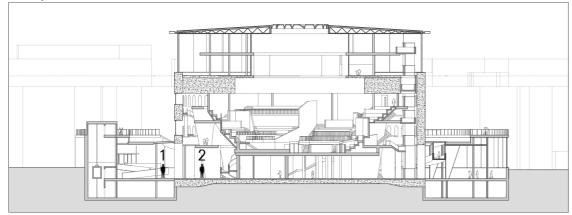


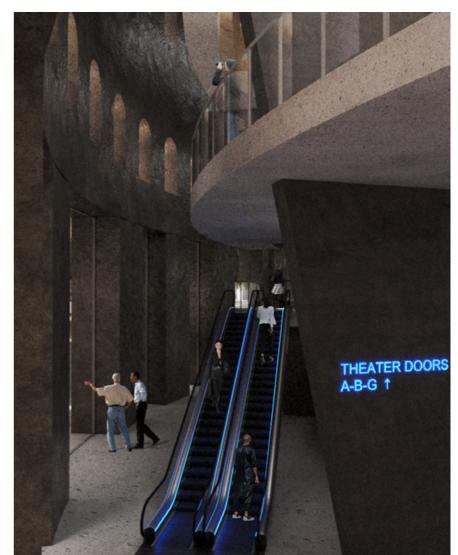
3 Plaza with Bunker

IMPRESSION HALLWAY AND FOYER



1 Foyer





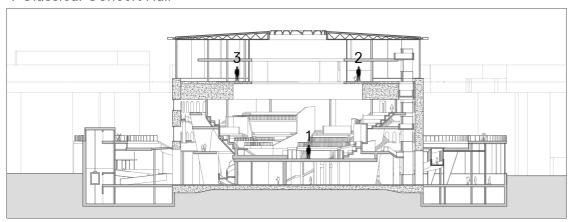
139

2 Hallway

IMPRESSION CONCERT HALL AND ROOFTOP



1 Classical Concert Hall



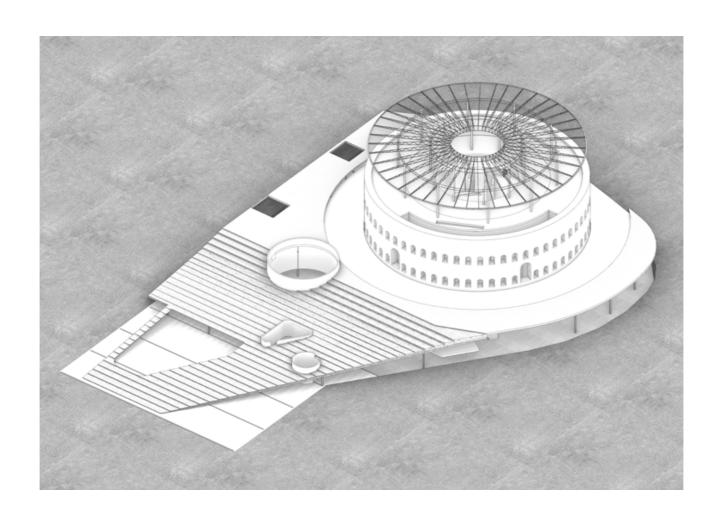


2 Rooftop 1



2 Rooftop 2

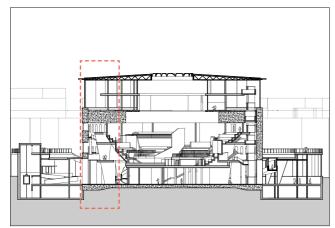
STRUCTURE

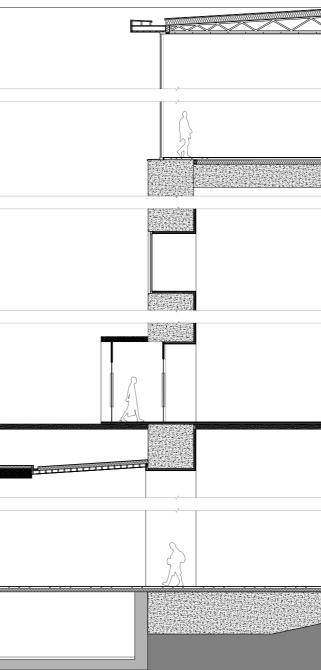


Reinforced concrete structure + Steel frame roof

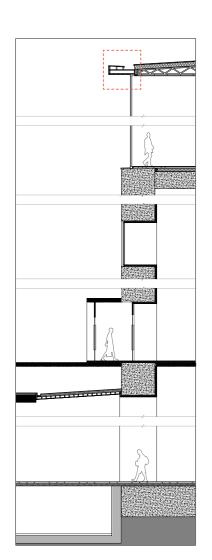
141

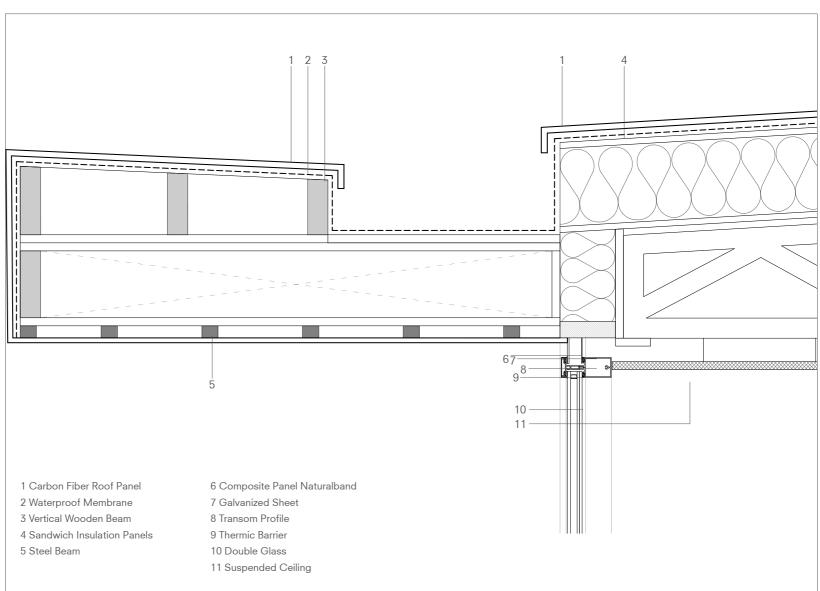
ENVELOPE FRAGMENT 1:20



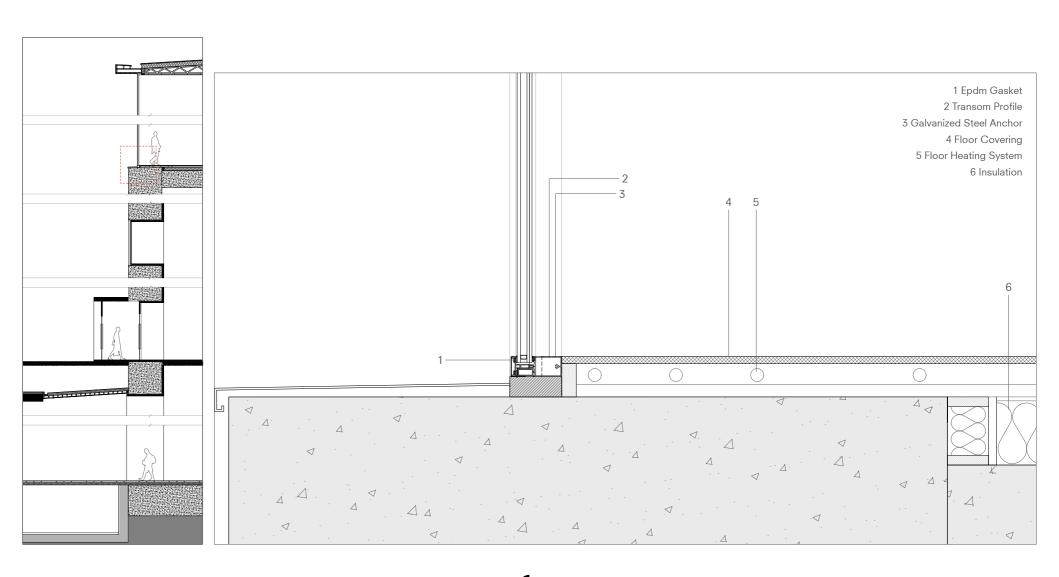


SECTION DETAIL 1:51

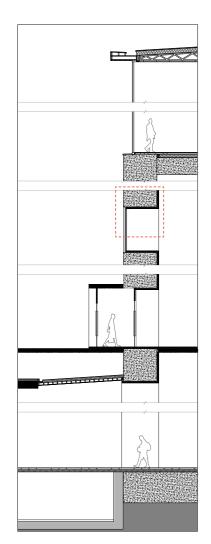


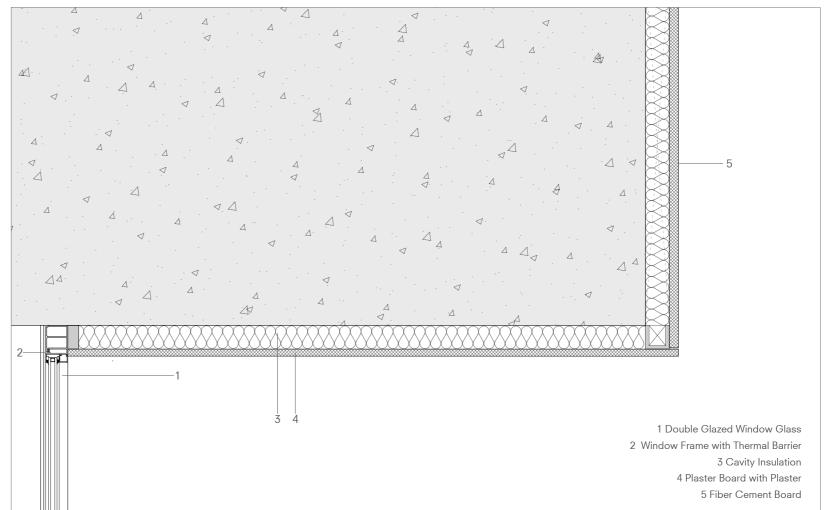


SECTION DETAIL 1:52



SECTION DETAIL 1:53



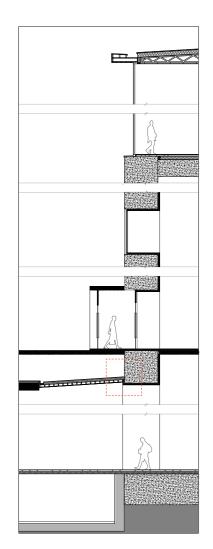


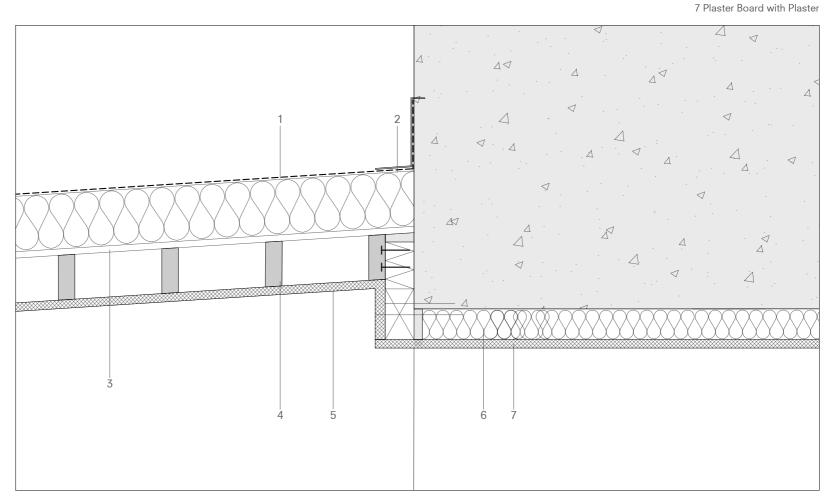
Development

SECTION DETAIL 1:5 4

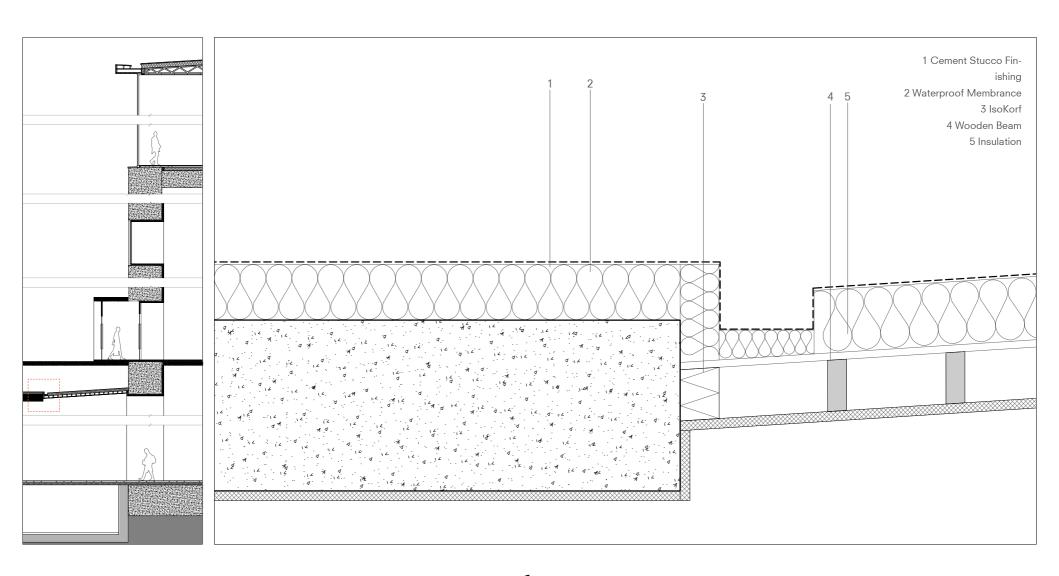
2 Aluminum Head Flashing 3 Wooden Plate 4 Wooden Beam 5 Fiber Cement Board 6 Insulation

1 Aluminum Roof



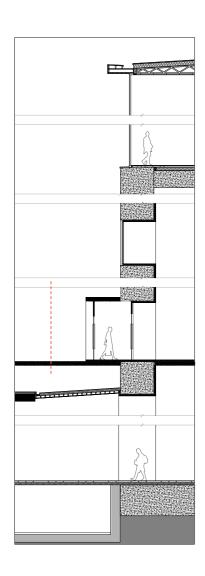


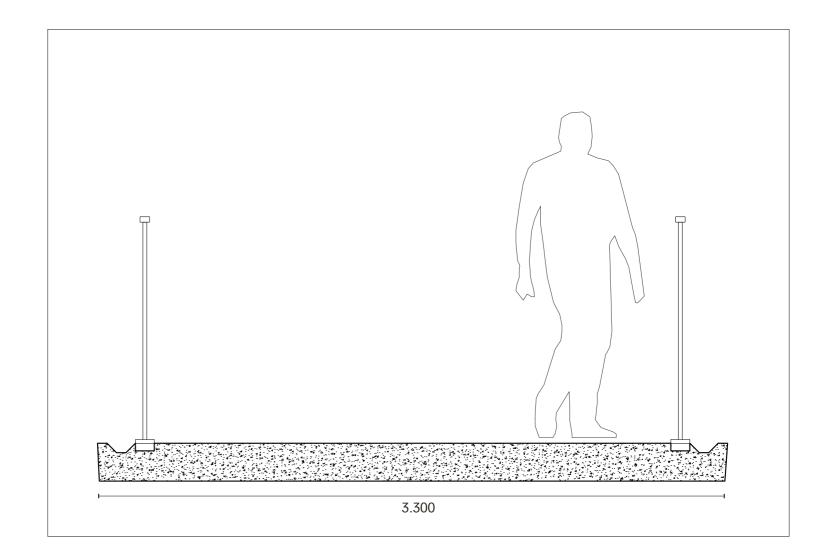
SECTION DETAIL 1:55



Development

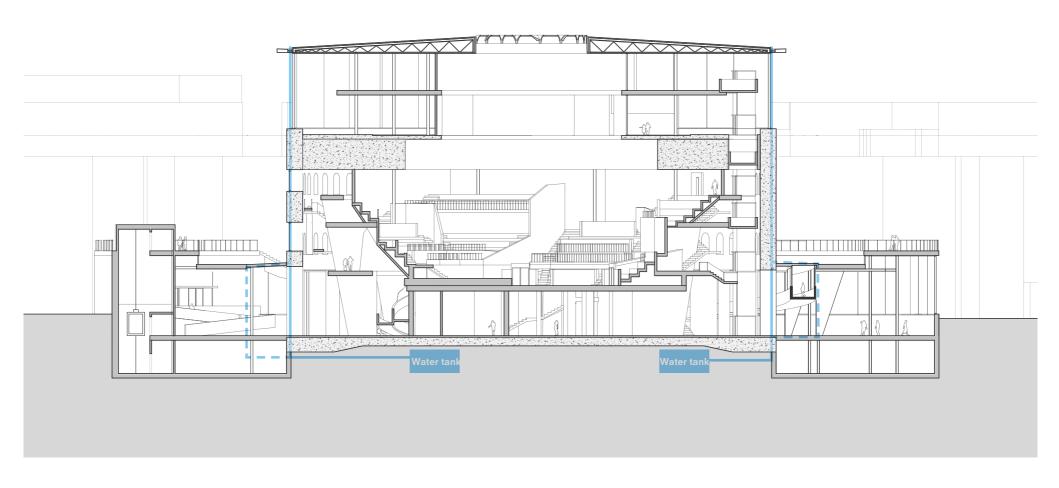
SECTION DETAIL 1:56



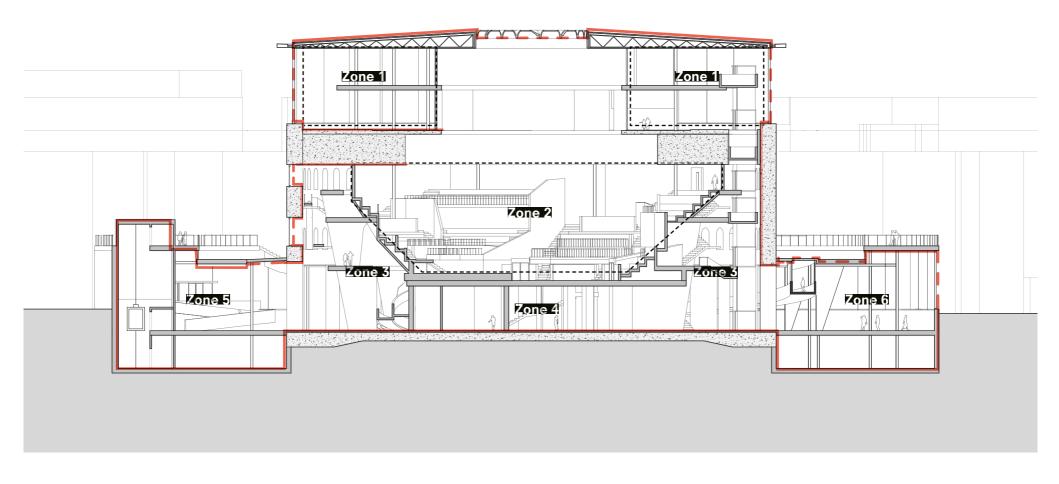


Development

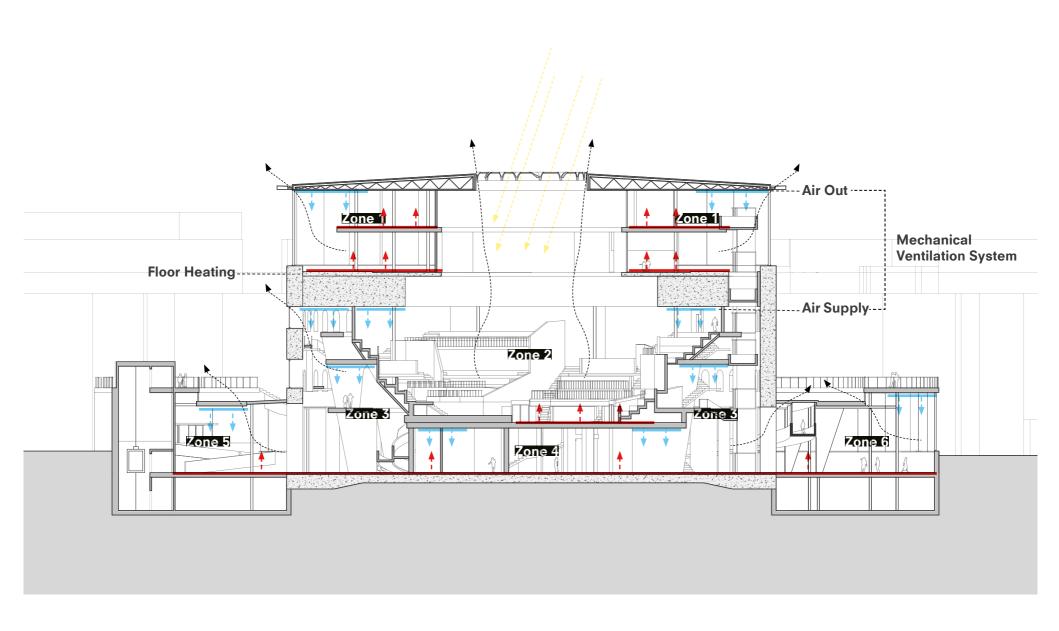
RAIN WATER REUSE



INSULATION AND CLIMATE ZONES



CLIMATE CONTROL AND VENTILATION



CONCLUSION

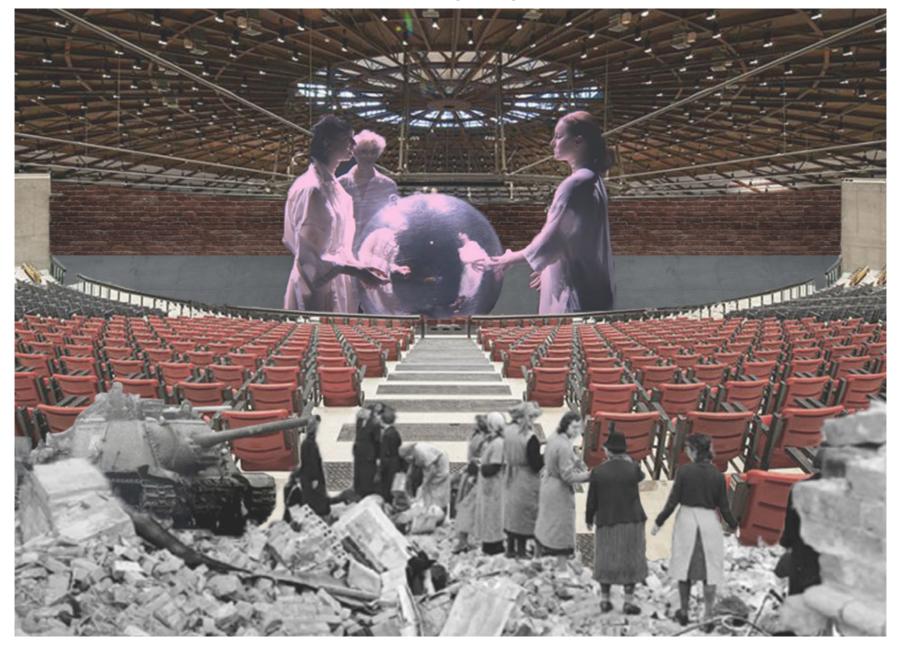
Conclusion

REFLECTION



Conclusion

REFLECTION



Conclusion

REFLECTION



Thank you!