

vacant MAIN STREET

THESIS - DAVID BOOTH



ST CROIX FALLS FROM TAYLORS FALLS OVERLOOK

Main streets in many small towns used to be vibrant places of both business and recreation. Sprawl to outlying areas has caused the traditional main street to become a lifeless entity of a city, with little function, and both social and economic disorder.

PROBLEM STATEMENT

INTENT



VIEW FROM SITE TOWARDS RIVER

TPOLOGY

Theatre/ local art museum

CLAIM

Revitalizing the downtown main street area of St. Croix Falls will make for a stronger, more cohesive community.

TPOLOGY/CLAIM
PROBLEM STATEMENT

INTENT



One particular building can bring life to a struggling area, and attract the people that make it necessary to be a viable community. According to Ben Hillier (pg.1 2012), "one small building can make a positive difference on a street". The downtown area of St. Croix Falls, WI will be revitalized through renovation and addition of a downtown theatre.

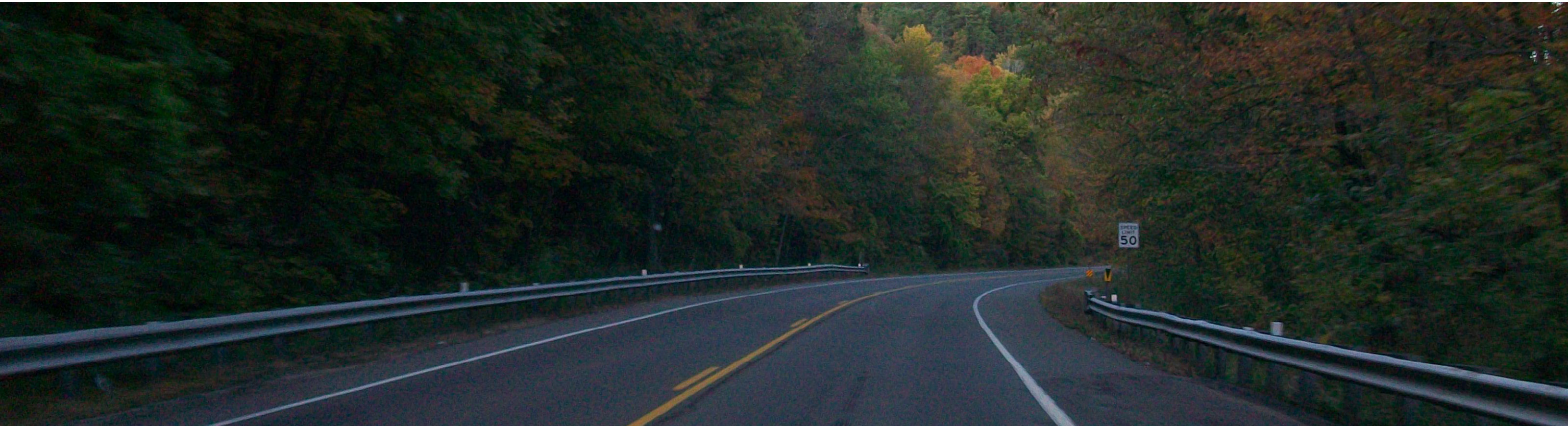
THEORETICAL PREMISE
TYPOLOGY/CLAIM
PROBLEM STATEMENT

INTENT



If we do not do something to revitalize these dying main streets, like St. Croix Falls, then a portion of our past will be lost. We will become a population of big box shoppers with no sense of historical context. We will lose what makes cities unique from one another and become a homogenous culture.

PROJECT JUSTIFICATION
THEORETICAL PREMISE
TYPOLOGY/CLAIM
PROBLEM STATEMENT



THEATRE

The existing building will be repurposed as it has been multiple times in the past. A new theatre will be designed adjacent to the repurposed building.

MUSEUM SPACE

The museum consists of galleries that enhance the progression through multiple spaces.

RESTAURANT

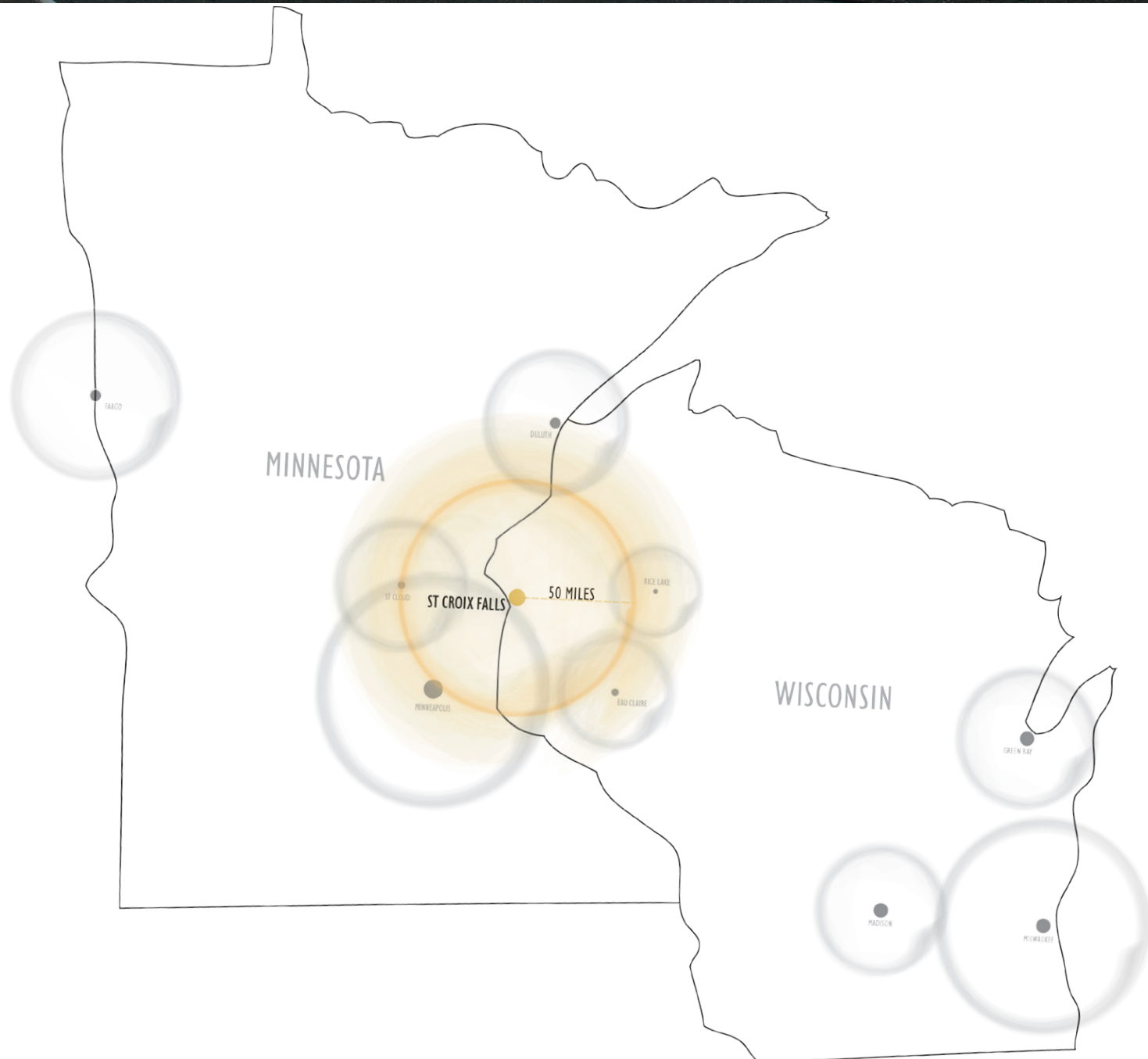
The restaurant will serve the attendants of the theatre and the museum. The food will be of either local origin or have a significance with the particular theatrical performance.

PUBLIC GATHERING

The public gathering space is an important part of the program. Plaza space will be utilized for street fairs and markets held in St. Croix Falls.

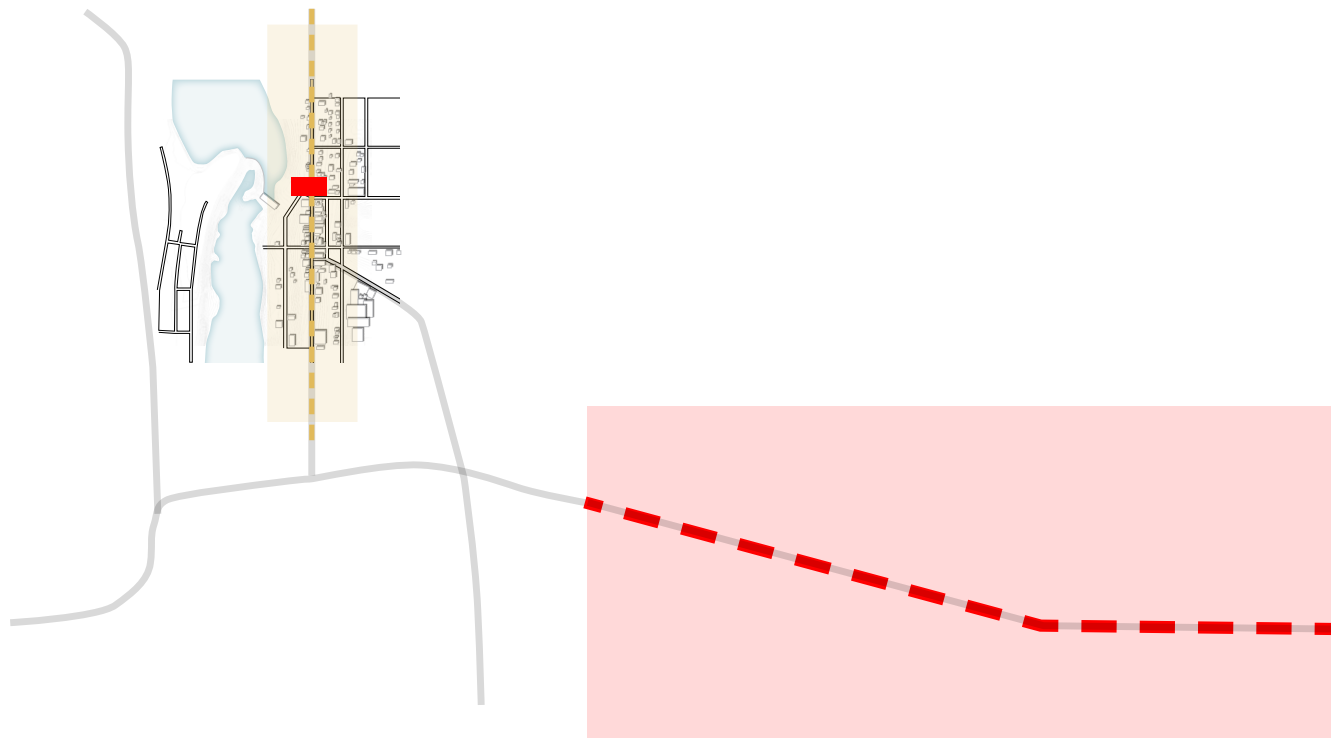
PROJECT ELEMENTS

PROJECT JUSTIFICATION
THEORETICAL PREMISE
TYPOLOGY/CLAIM
PROBLEM STATEMENT



ST CROIX FALLS, WI

The city of St. Croix Falls is on the St. Croix River on the border of Minnesota and Wisconsin. The city lies within the river valley and is home to approximately 2,200 people. The surrounding parks have over 350,000 visitors each year (City of St. Croix Falls, Wisconsin, 2011).



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ST CROIX RIVER VALLEY

The site is located in central-western Wisconsin. The St. Croix River cuts through the region to form the St. Croix River Valley. The river is the most evident natural influence on the particular site as well as the region as a whole. The St. Croix River Valley is home to six state parks, and over 50 public and privately owned parks and preserves.

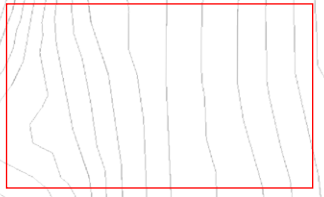
ANALYSIS - REGION
ANALYSIS - CITY

ST. CROIX RIVER

NEVERS DAM

MINNESOTA

WISCONSIN



TOPOGRAPHY - RIVER - SITE

ANALYSIS - CITY

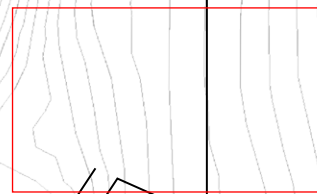
SITE

ST. CROIX RIVER

NEVERS DAM

MINNESOTA

WISCONSIN



ROADS
TOPOGRAPHY - RIVER - SITE

ANALYSIS - CITY

SITE

ST. CROIX RIVER

NEVERS DAM

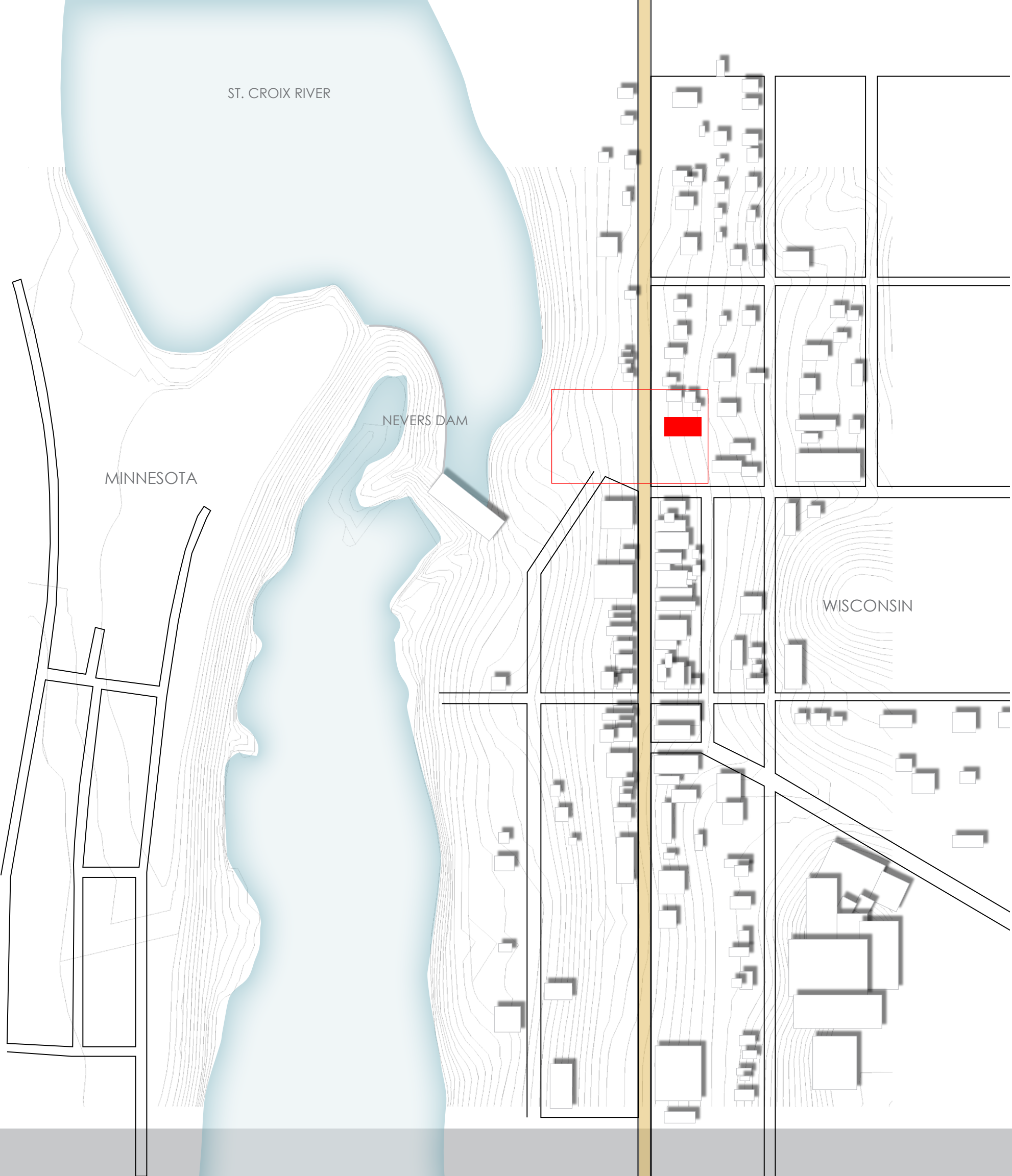
MINNESOTA

WISCONSIN

WASHINGTON ST
ROADS
TOPOGRAPHY - RIVER - SITE

ANALYSIS - CITY

SITE



ST. CROIX RIVER

NEVERS DAM

MINNESOTA

WISCONSIN

BUILT CONTEXT
WASHINGTON ST
ROADS
TOPOGRAPHY - RIVER - SITE

ANALYSIS - CITY

SITE

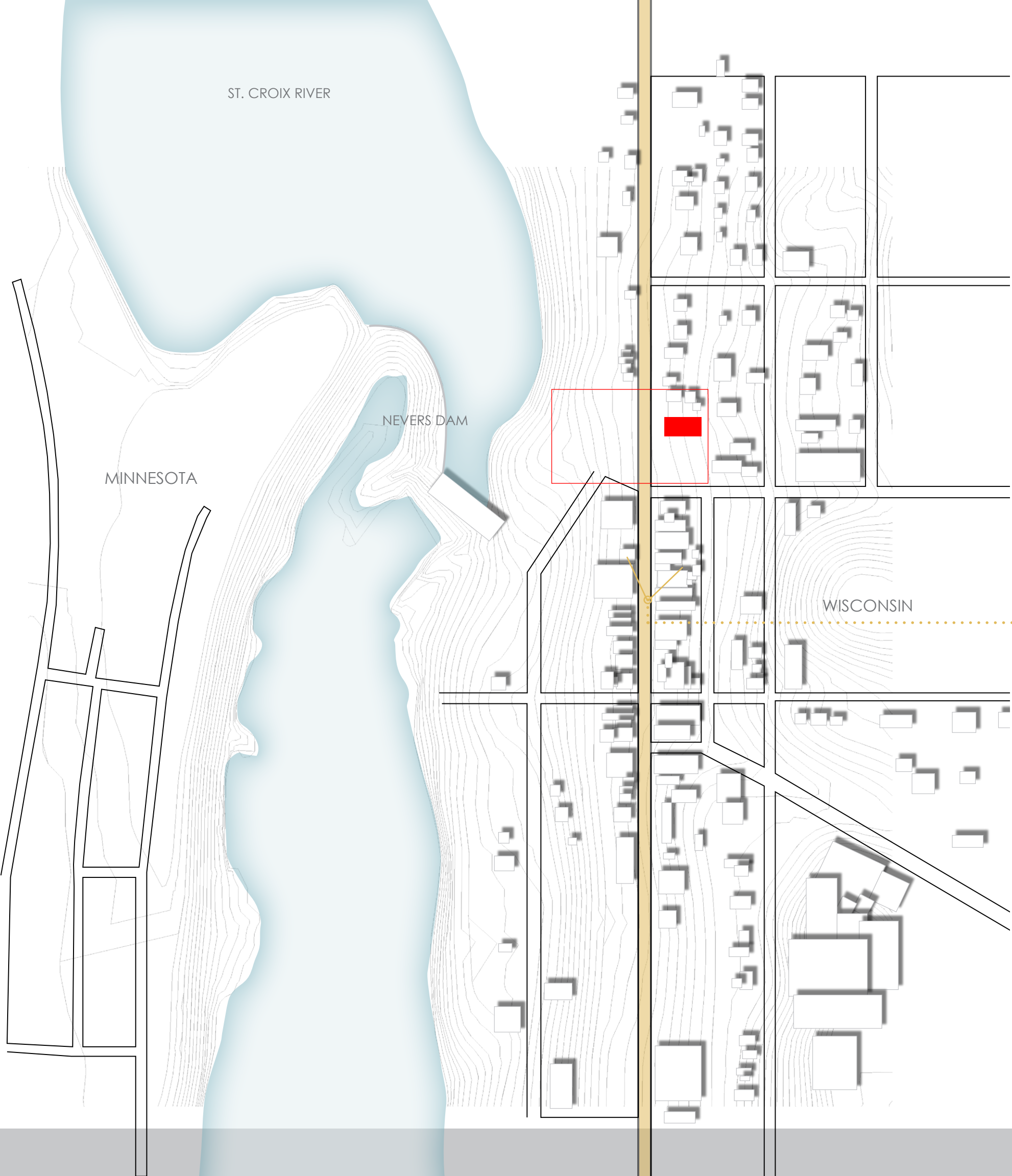


VIEW FROM TOP OF FESTIVAL THEATRE

BUILT CONTEXT
 WASHINGTON ST
 ROADS
 TOPOGRAPHY - RIVER - SITE

ANALYSIS - CITY

SITE



MAINSTREET CONTEXT

BUILT CONTEXT
 WASHINGTON ST
 ROADS
 TOPOGRAPHY - RIVER - SITE

ANALYSIS - CITY

SITE



ST. CROIX RIVER

NEVERS DAM

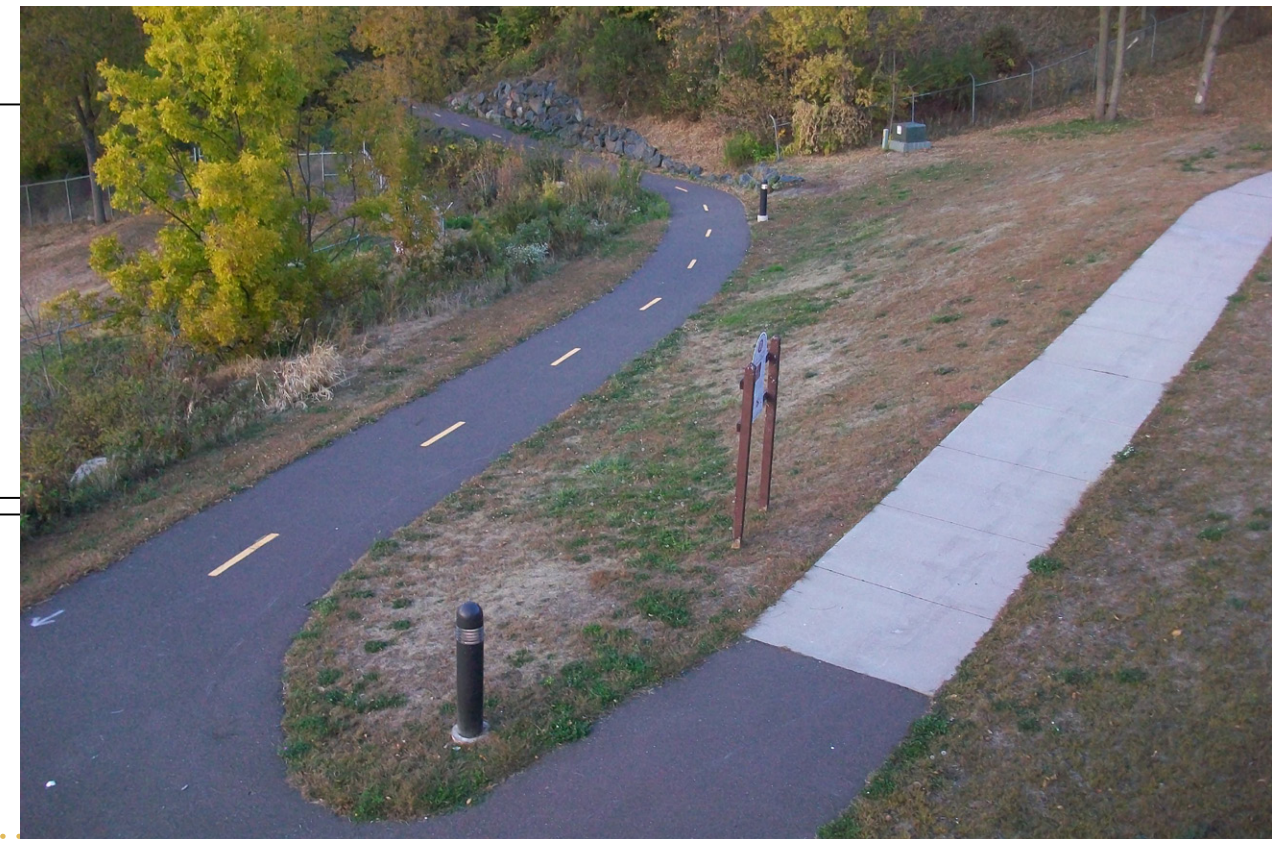
MINNESOTA

WISCONSIN

RIVERFRONT PATH
BUILT CONTEXT
WASHINGTON ST
ROADS
TOPOGRAPHY - RIVER - SITE

ANALYSIS - CITY

SITE

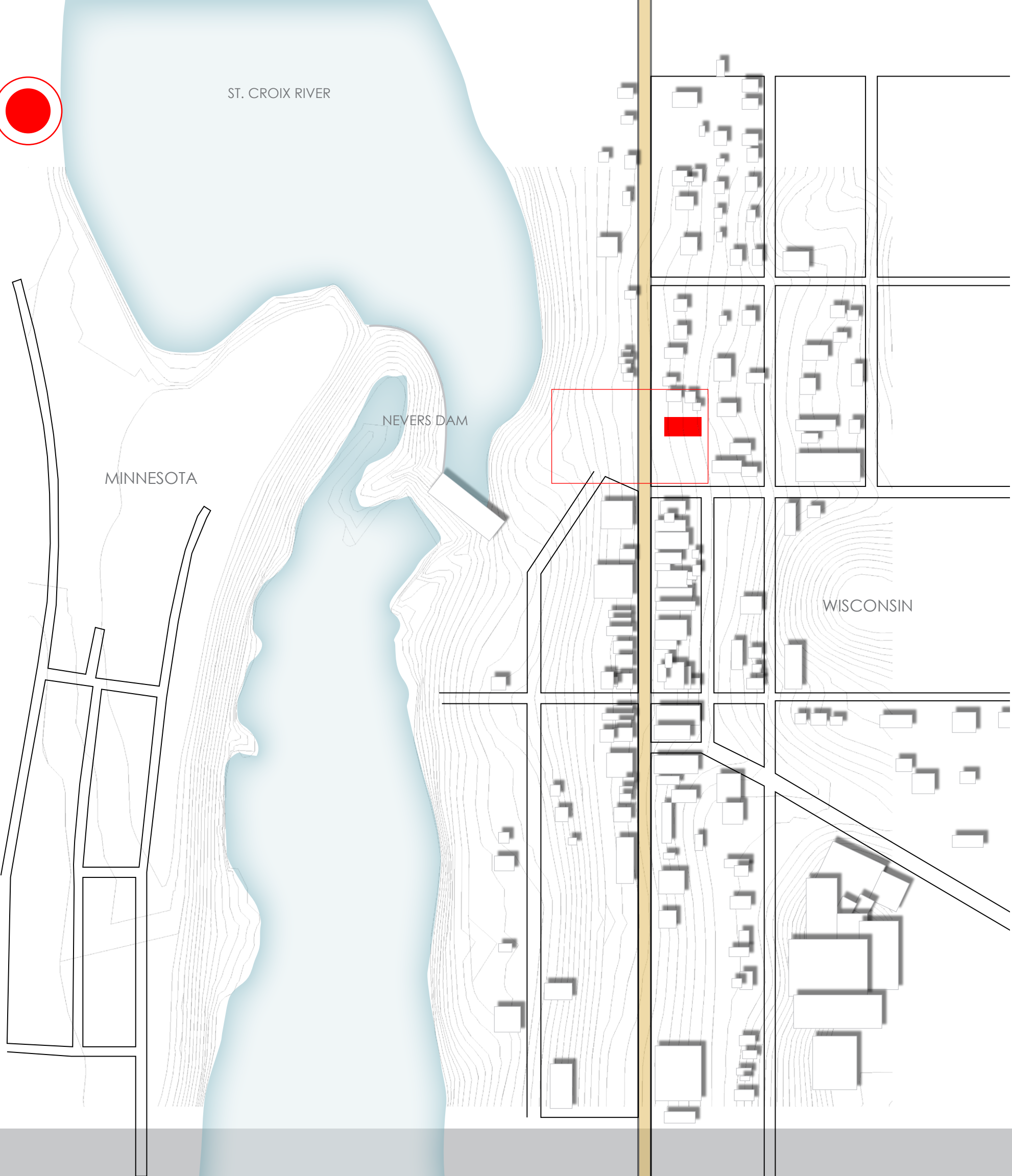


VIEW OF RIVERFRONT PATH FROM SITE

- RIVERFRONT PATH
- BUILT CONTEXT
- WASHINGTON ST
- ROADS
- TOPOGRAPHY - RIVER - SITE

ANALYSIS - CITY

SITE



ST. CROIX RIVER

NEVERS DAM

MINNESOTA

WISCONSIN

TAYLORS FALLS OVERLOOK PARK
RIVERFRONT PATH
BUILT CONTEXT
WASHINGTON ST
ROADS
TOPOGRAPHY - RIVER - SITE

ANALYSIS - CITY

SITE



ST. CROIX RIVER

NEVERS DAM

MINNESOTA

WISCONSIN

-
- LINK TO TAYLORS FALLS OVERLOOK PARK
 - TAYLORS FALLS OVERLOOK PARK
 - RIVERFRONT PATH
 - BUILT CONTEXT
 - WASHINGTON ST
 - ROADS
 - TOPOGRAPHY - RIVER - SITE
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ANALYSIS - CITY

SITE



VIEW FROM TAYLORS FALLS OVERLOOK

- LINK TO TAYLORS FALLS OVERLOOK PARK
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ANALYSIS - CITY

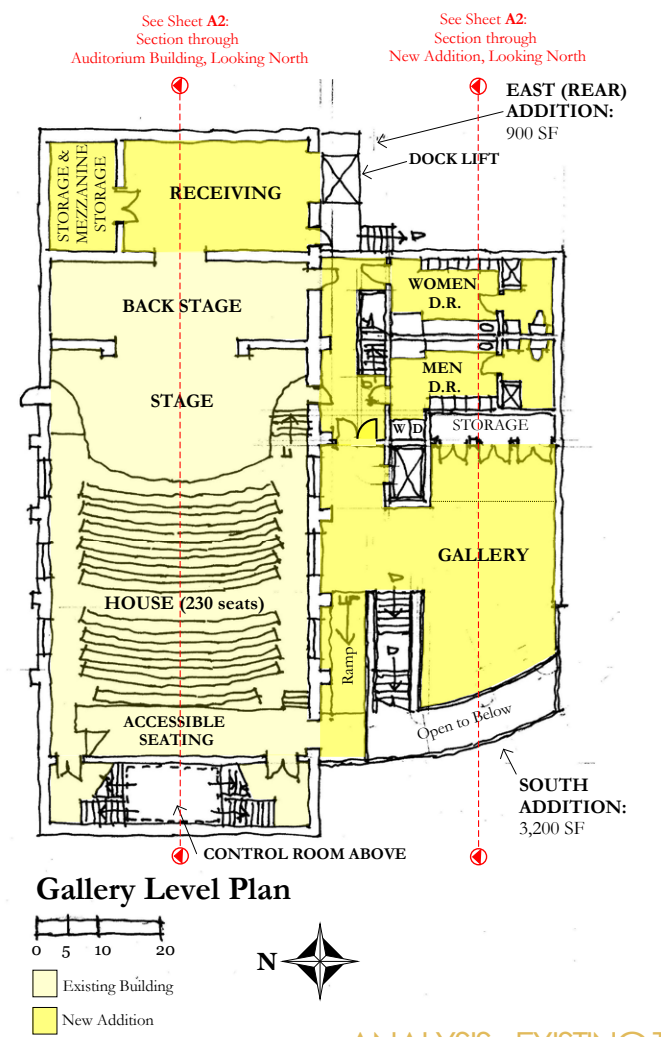
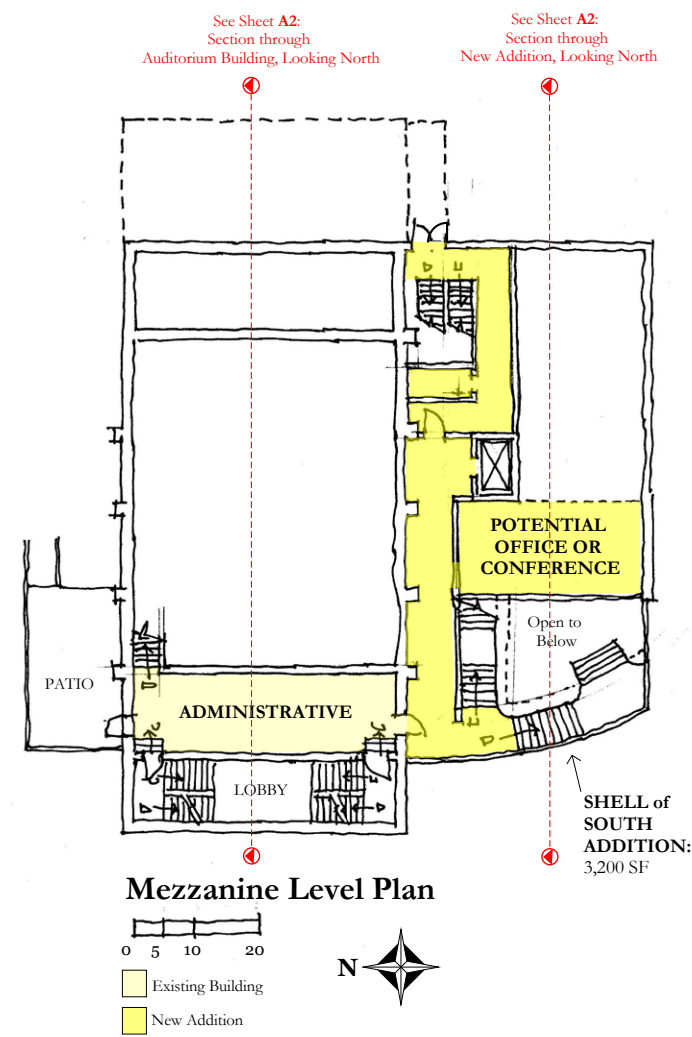
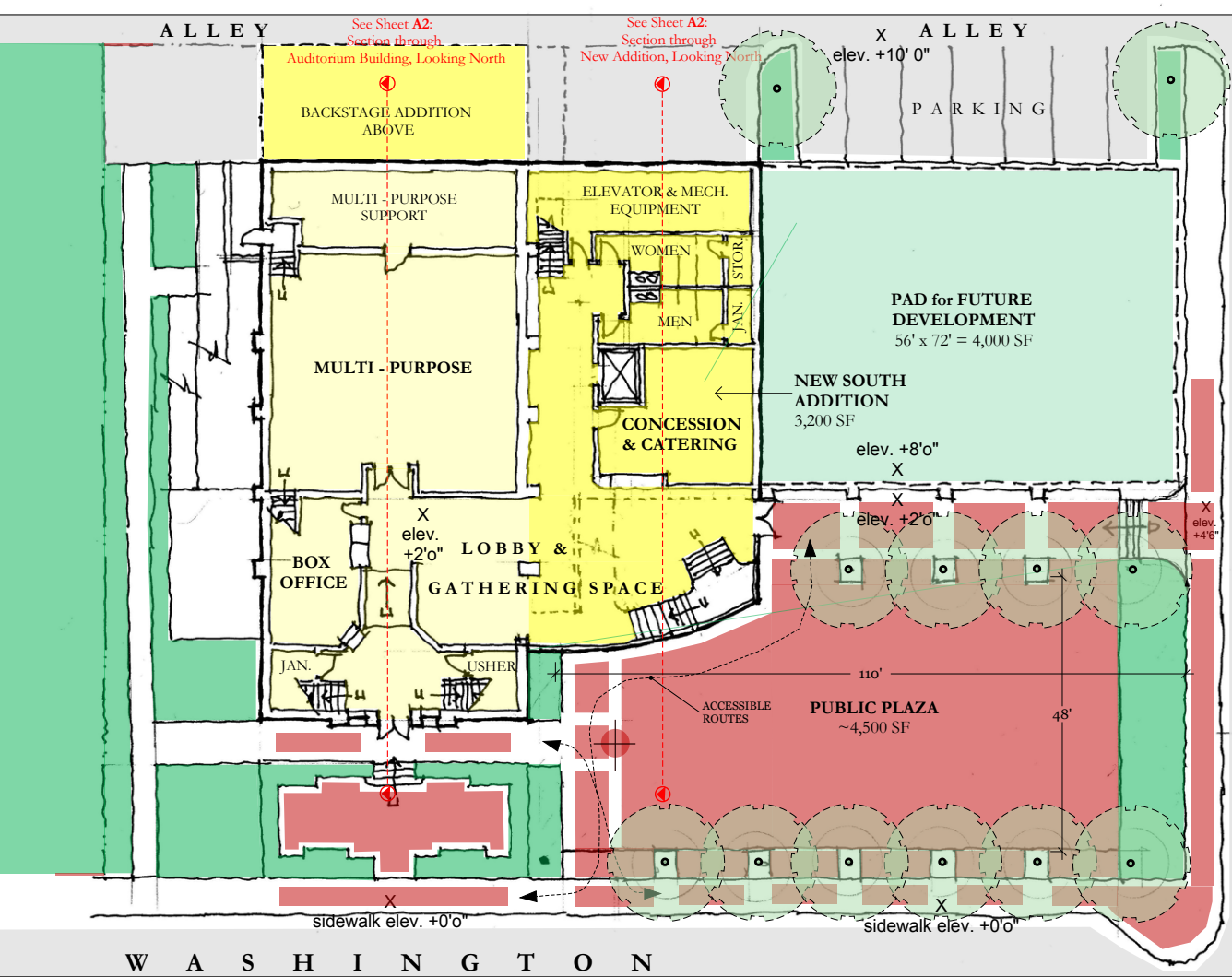
SITE



FESTIVAL THEATRE

The site is located on the corner of N Washington Street and E Louisiana Street. The site is currently in a state of change. It was previously the location of both the historic festival theatre as well as the town movie theatre. On September 28, 2012 the movie theatre was torn down. The demolition leaves an empty lot for expansion to the theatre.

- ANALYSIS - EXISTING THEATRE
- ANALYSIS - REGION
- ANALYSIS - CITY



ANALYSIS - EXISTING THEATRE
 ANALYSIS - REGION
 ANALYSIS - CITY



Aristotle in Poetics (350 B.C.)-

A tragedy, is the imitation of an action that is serious and also, as having magnitude, complete in itself; in language with pleasurable accessories, each kind brought in separately in the parts of the fear, wherewith to accomplish its catharsis of such emotions.
(pg. 49)

ARTEFACT

INSPIRATION



imitation of an action - Mimesis - or any created thing that reflects and represents reality.

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translate this quote architecturally:

- fear
 - sense of scale/self awareness
 - compression vs. openness
 - changing points of view
- catharsis
 - provided through the progression through these changing spaces

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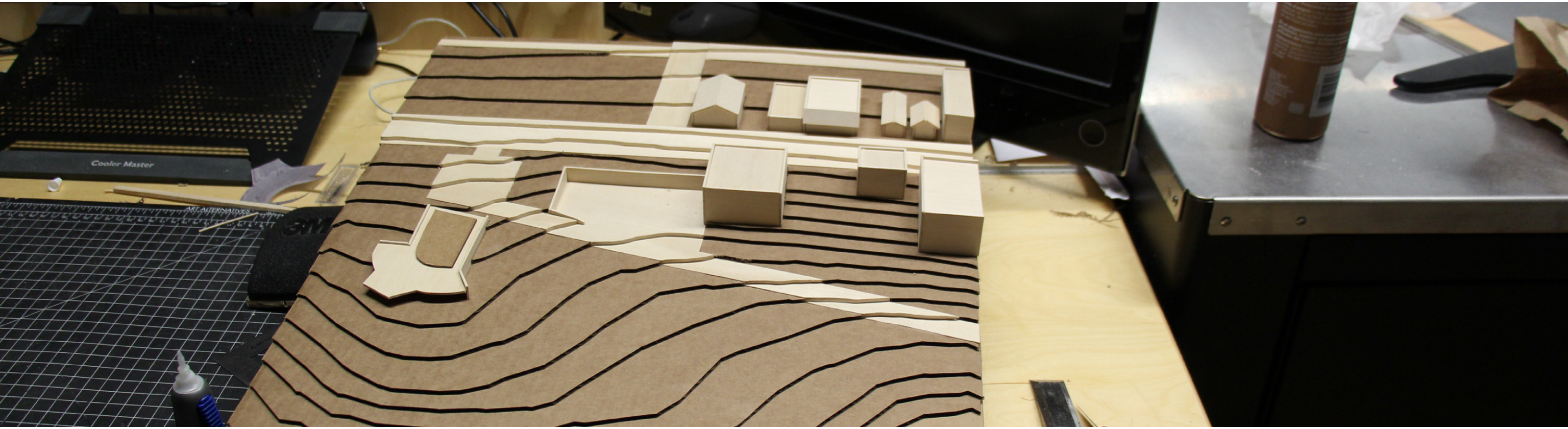
ARTEFACT

INSPIRATION



PRESENTATION
ARTEFACT

INSPIRATION

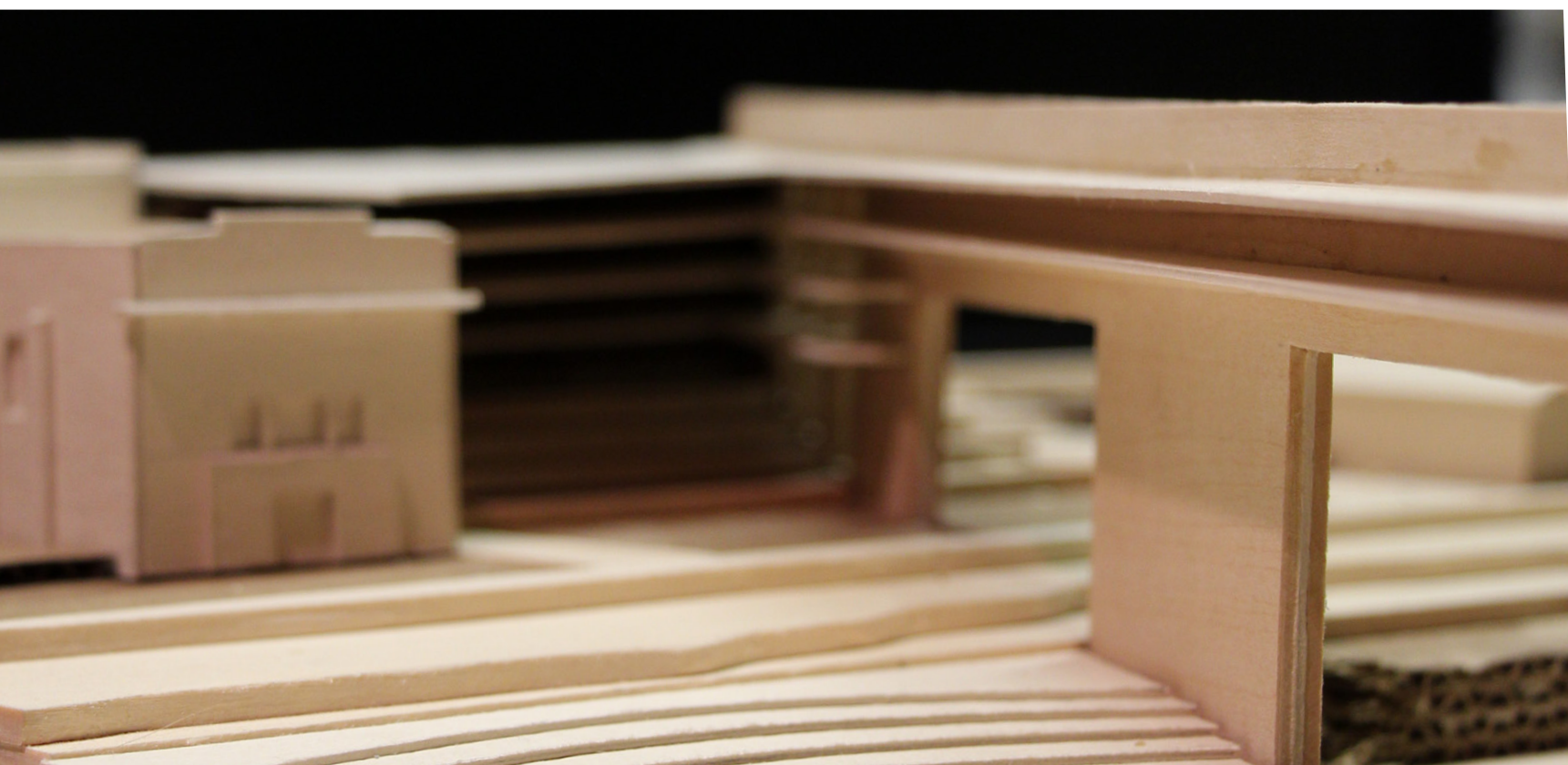
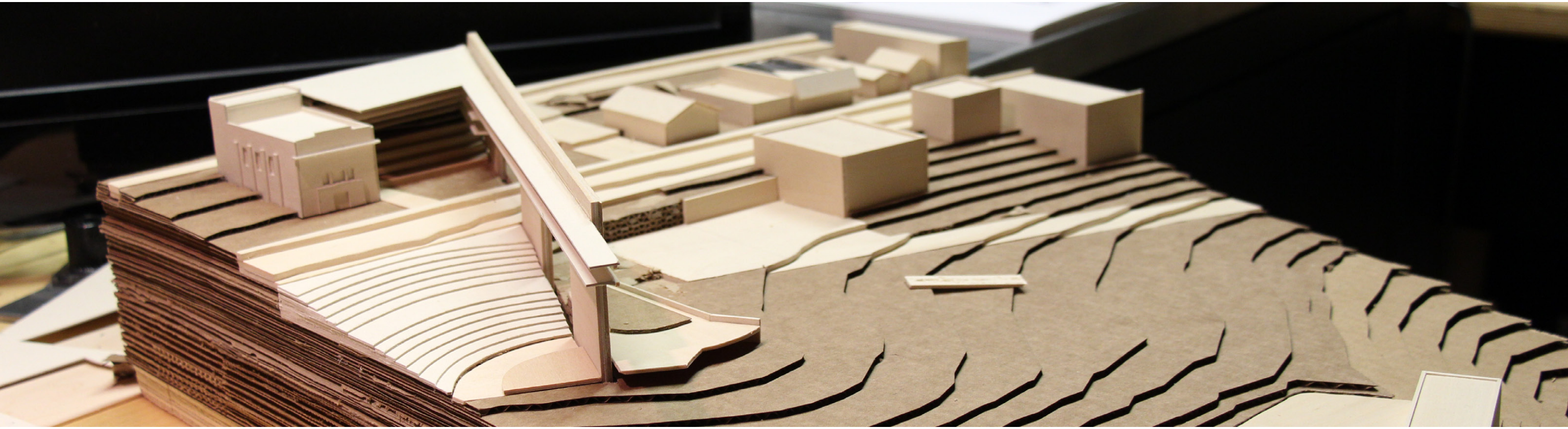


KEY ISSUES

- Developing upon existing buildings geometry
- Maintain views of existing Festival Theatre
- Create a landmark for St. Croix Falls
- Developing outdoor spaces for public gathering

INITIAL PROCESS

DESIGN

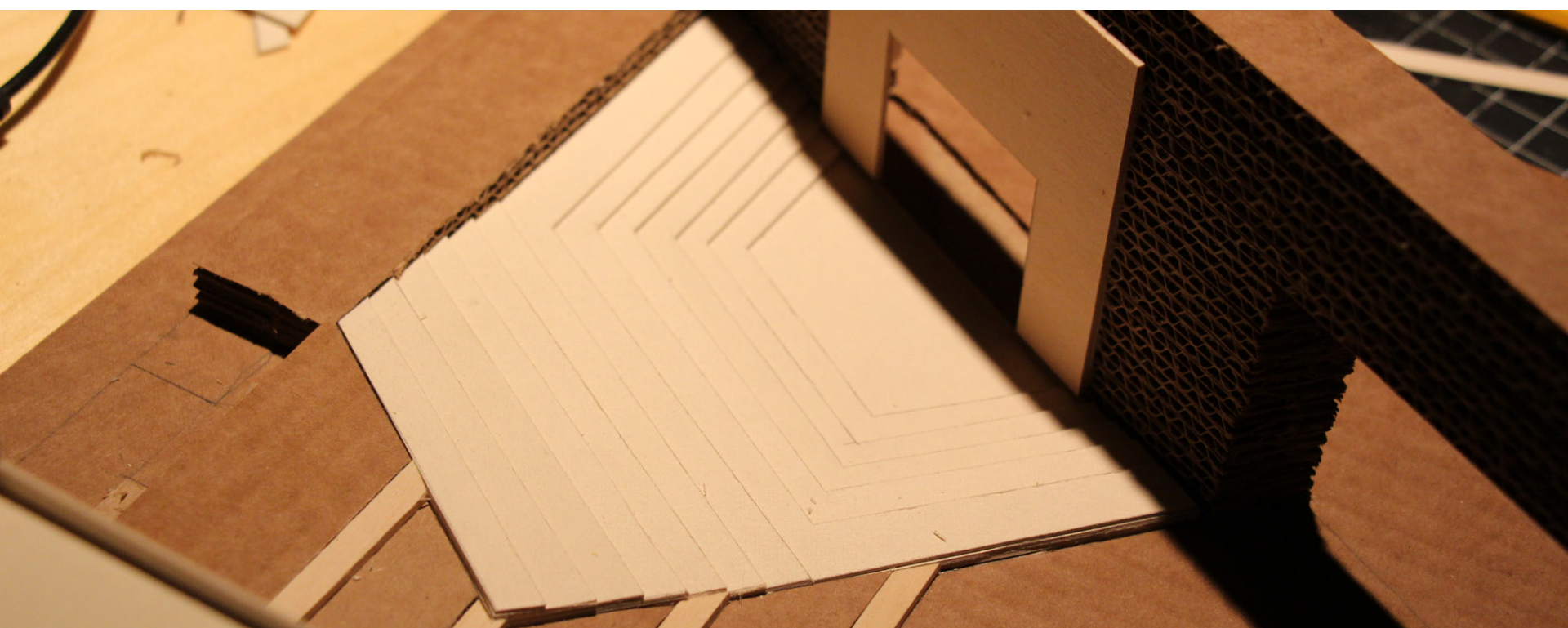
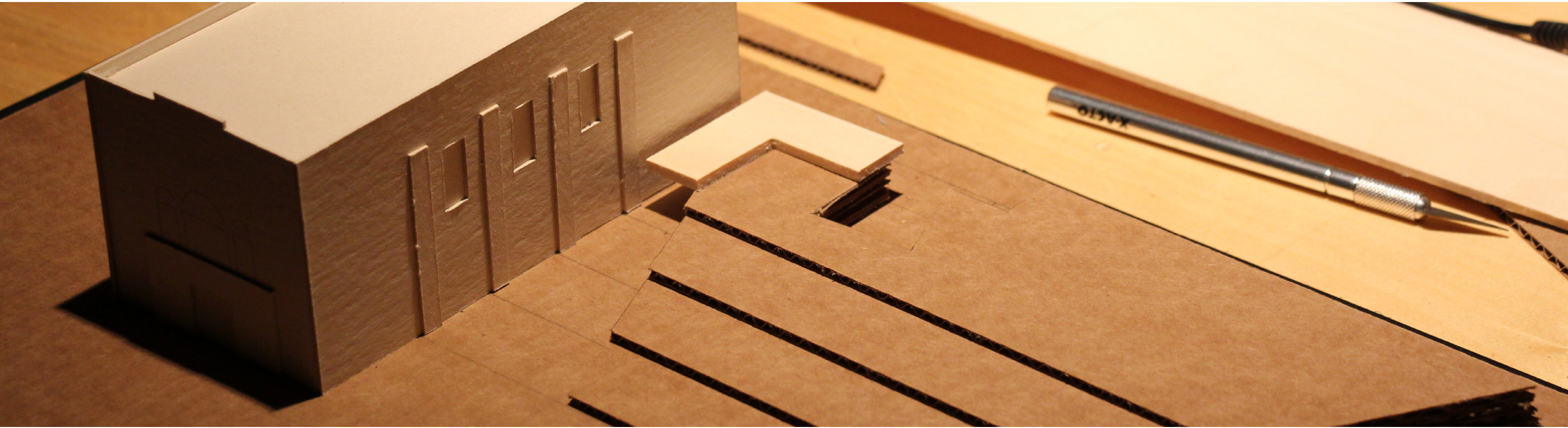


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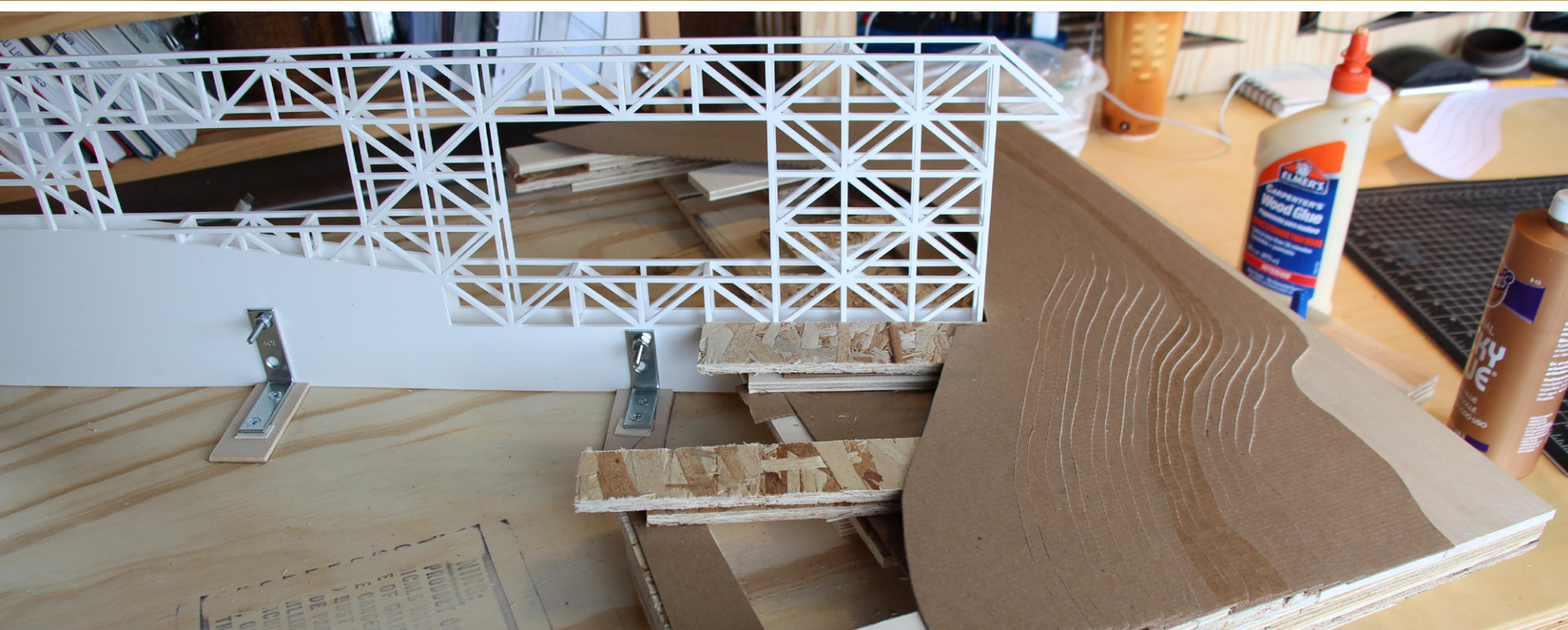
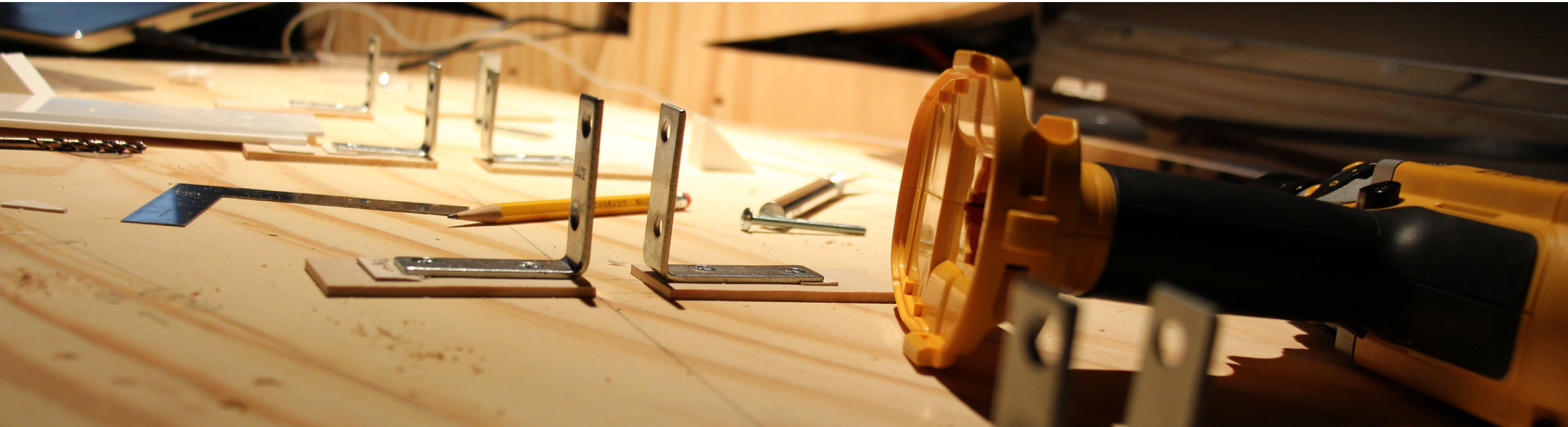
Focus on the experience of the user
Develop the theatre space
Creating dramatic movement through the spaces
Structure

THEATRE DEVELOPMENT
INITIAL PROCESS



KEY ISSUES
Focus on the experience of the user
Develop the theatre space
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Structure

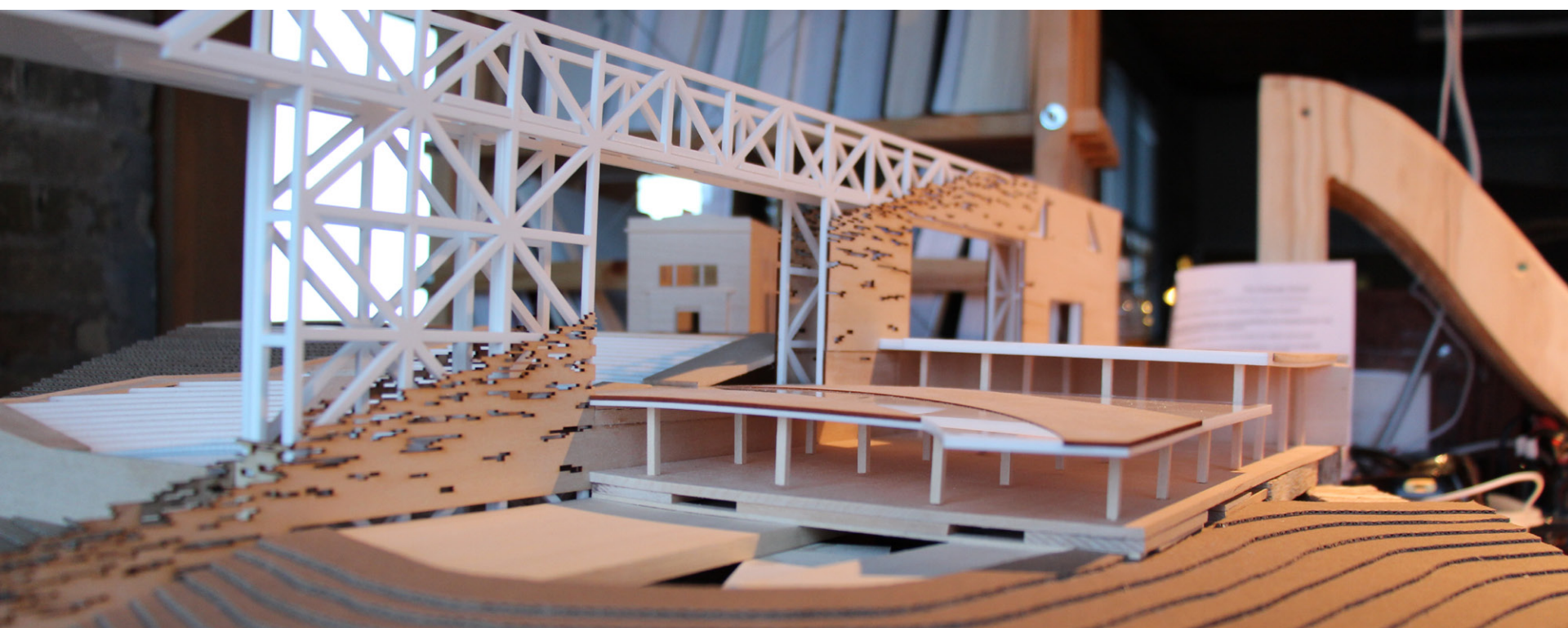
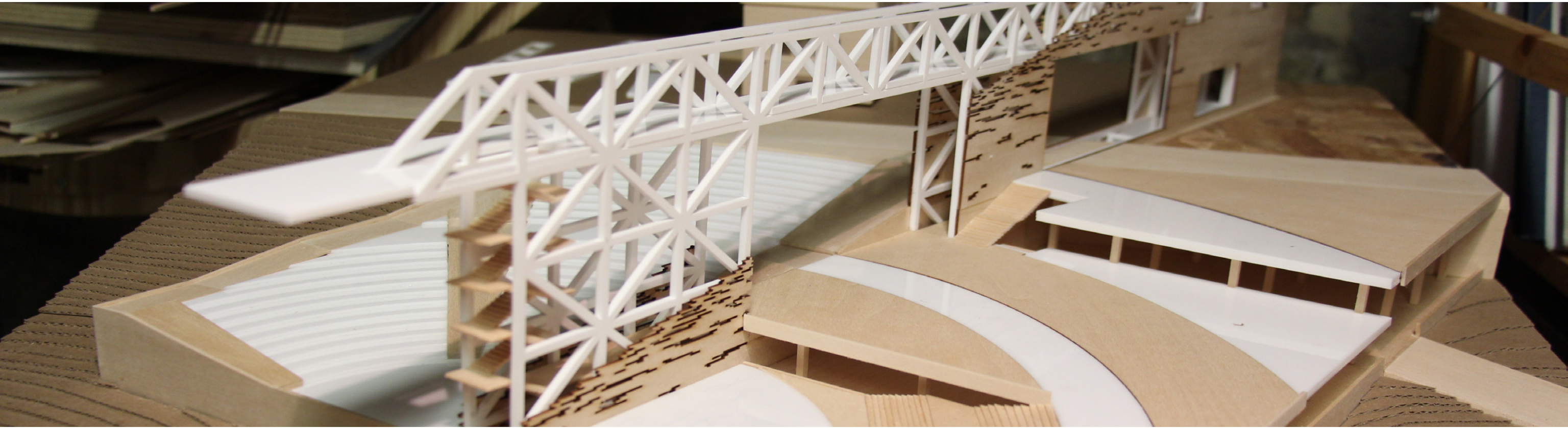
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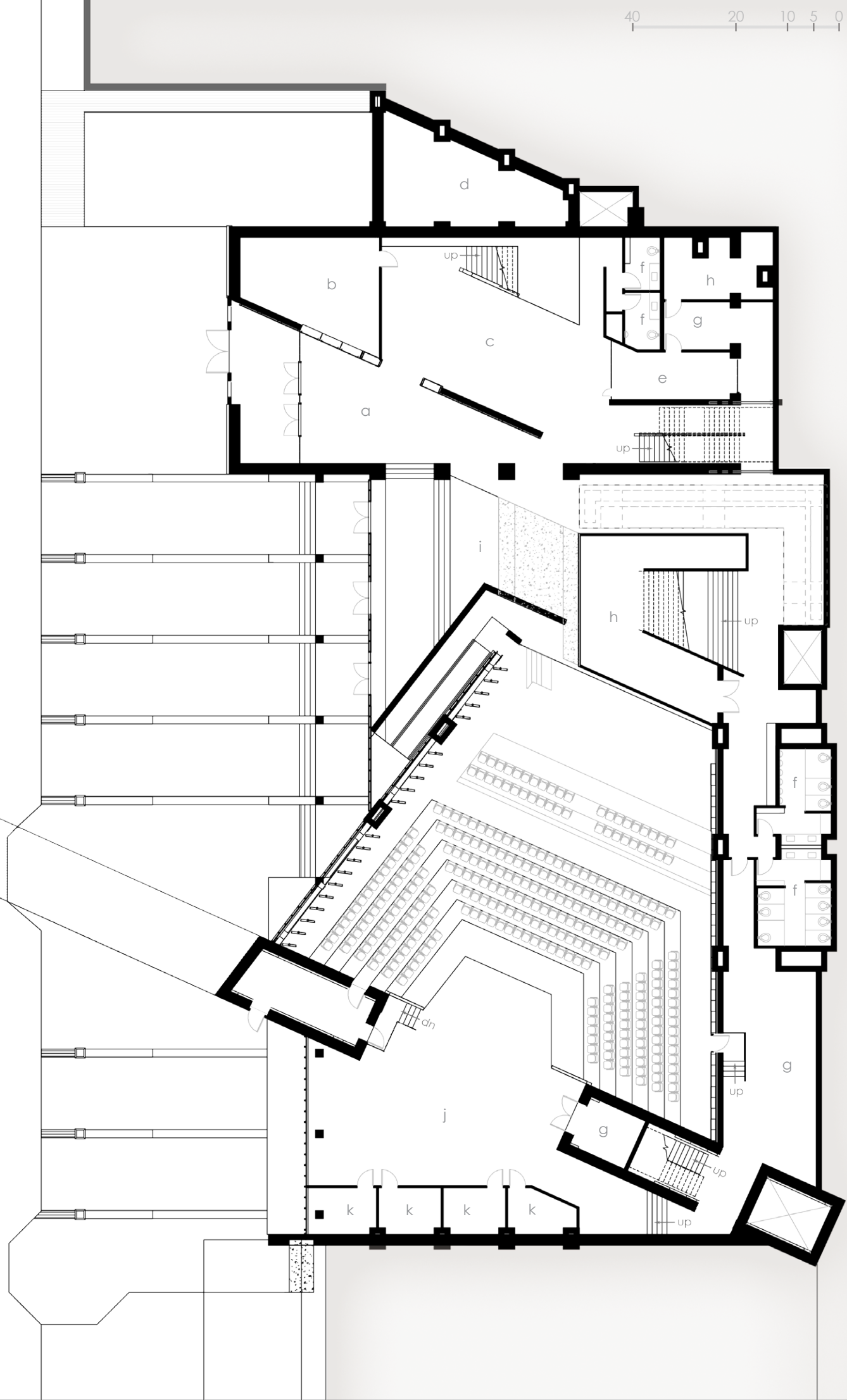
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- Structure

THEATRE DEVELOPMENT
INITIAL PROCESS



N Washington Street



E Louisiana Street

- FLOOR 1 ENTRY**
- lobby - a
 - ticketing - b
 - studio - c
 - conference - d
 - office - e
 - restroom - f
 - storage - g
 - mechanical - h
 - indoor terraced greenspace - i
 - backstage - j
 - changing - k
- 11,950 s.f.

PLANS

DESIGN



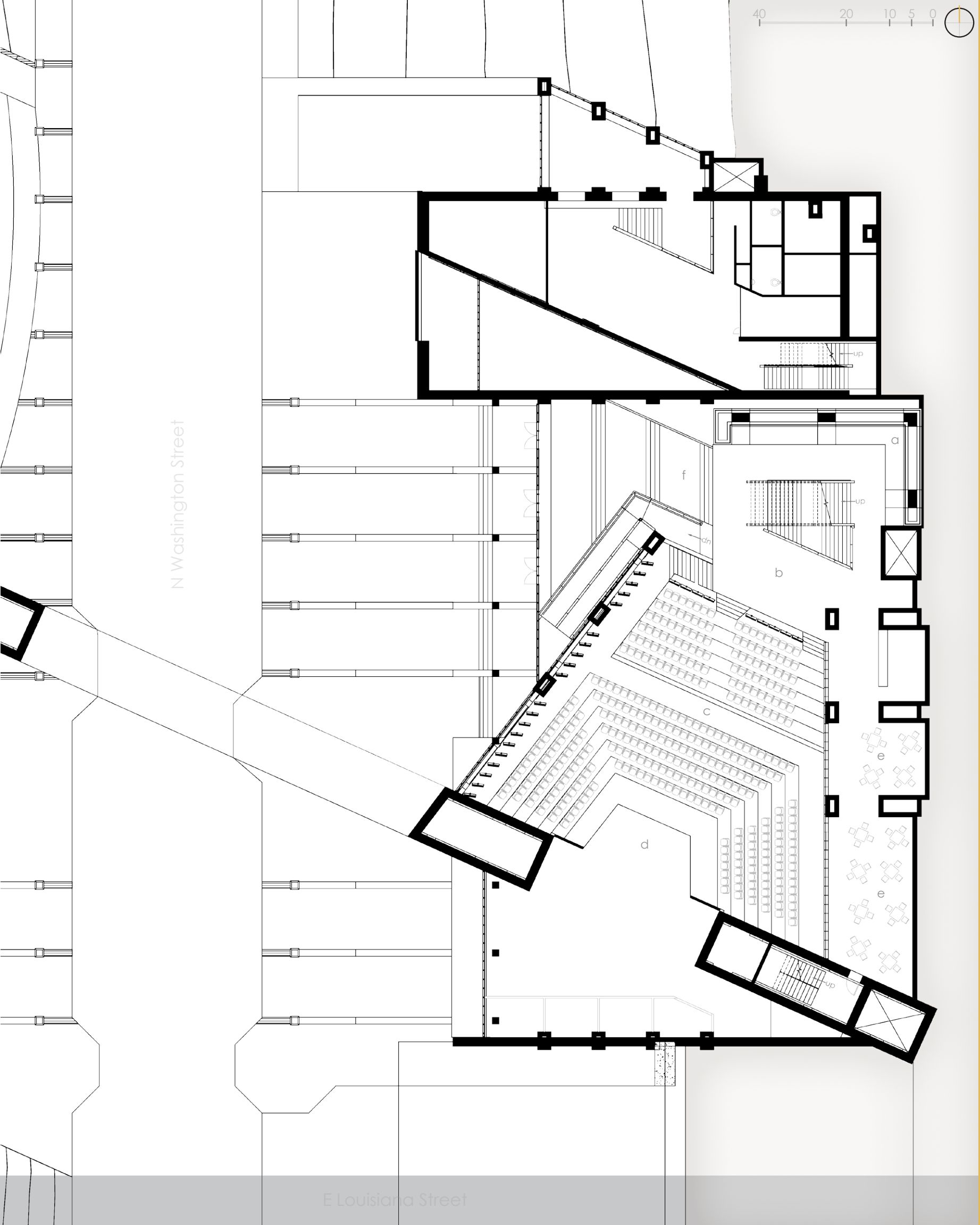
EXTERIOR 1
PLANS

DESIGN



EXTERIOR 2
PLANS

DESIGN

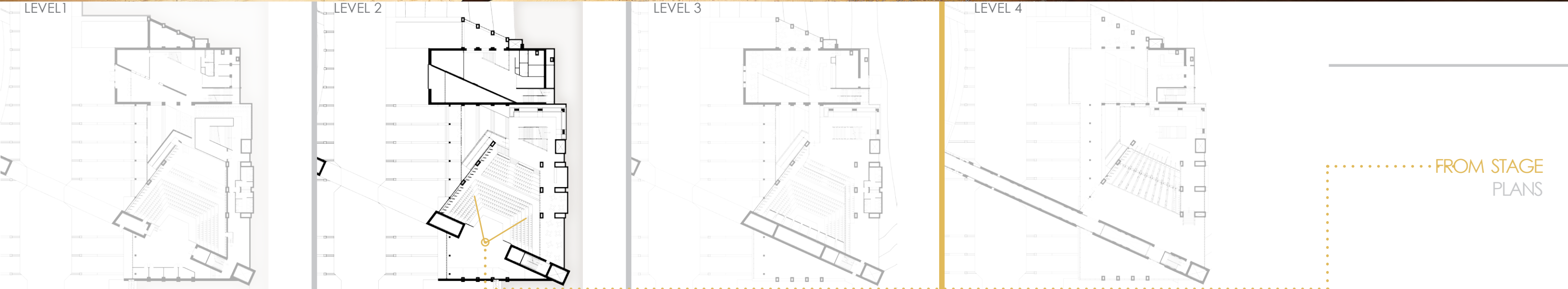


FLOOR 2 ICONIC WALL
LANDMARK
GATEWAY TO MAIN STREET

- fireplace - a
- gathering - b
- theatre - c
- stage - d
- theatre alcove - e
- indoor terraced greenspace - f

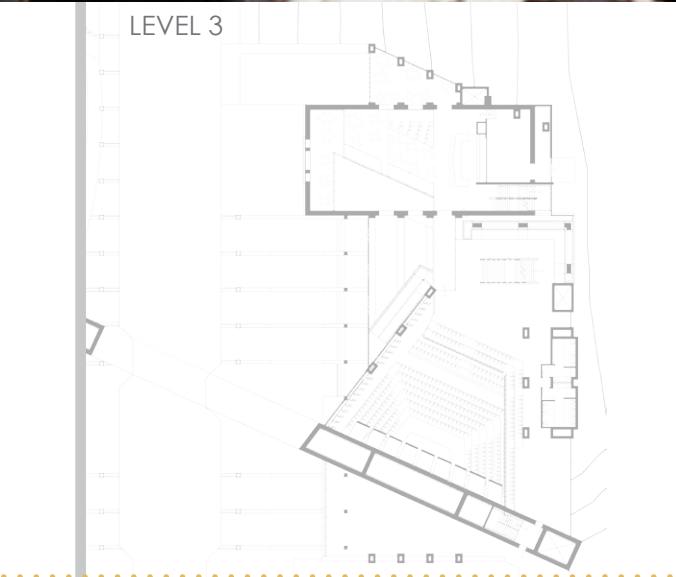
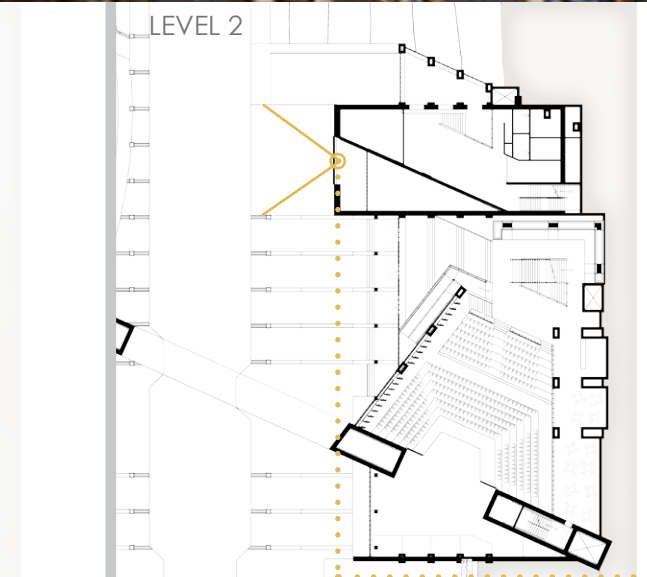
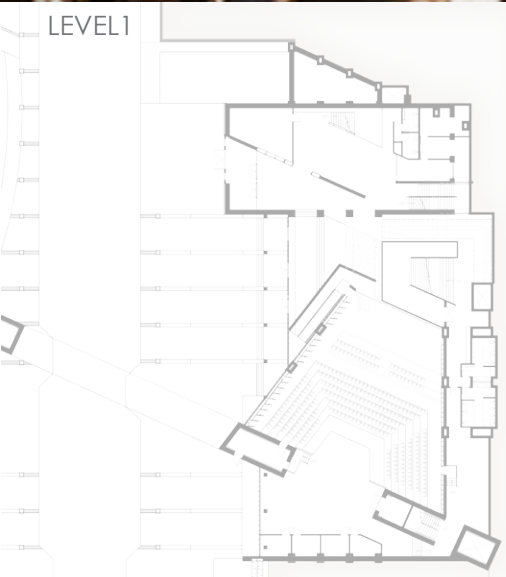
7,200 s.f.

PLANS

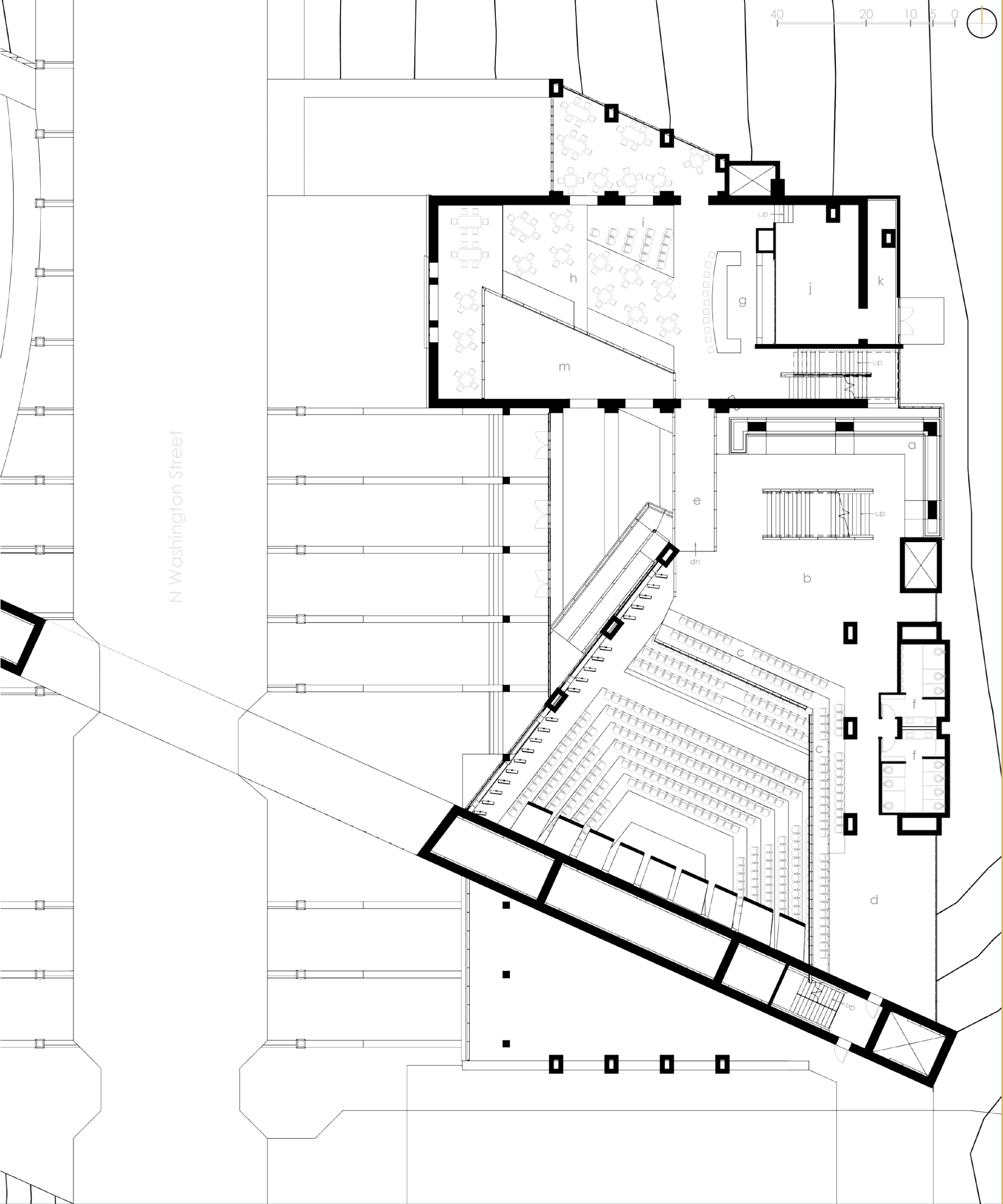


FROM STAGE
PLANS

DESIGN



AMPHITHEATER
PLANS



N Washington Street

E Louisiana Street

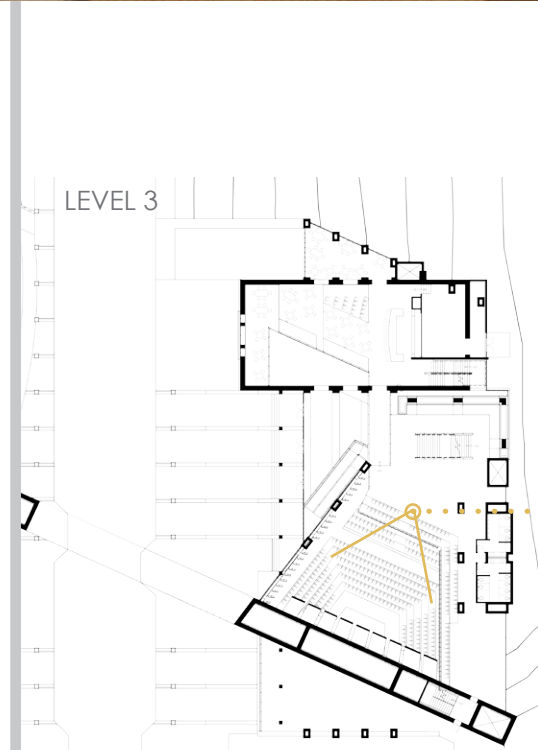
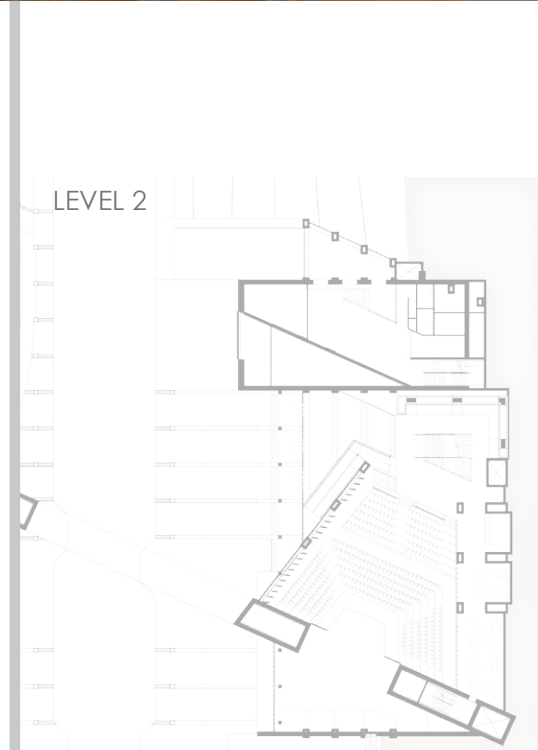


FLOOR 3 RESTAURANT
THEATRE BALCONY

- fireplace - a
 - gathering - b
 - balcony - c
 - theatre alcove - d
 - ramp to restaurant - e
 - restroom - f
 - bar - g
 - restaurant - h
 - historic theatre seating - i
 - kitchen - j
 - recieving - k
 - open to lobby below - m
- 8,065 s.f.

PLANS

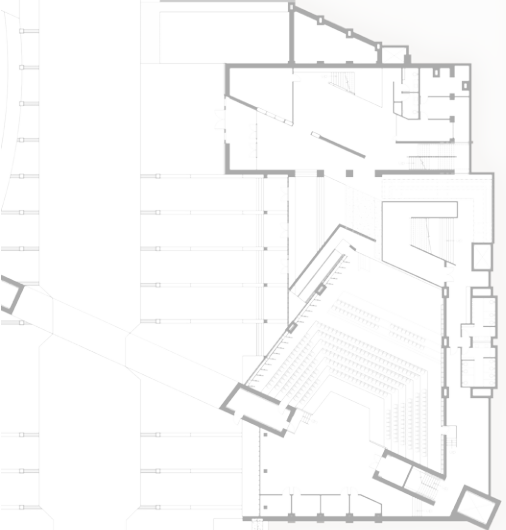
DESIGN



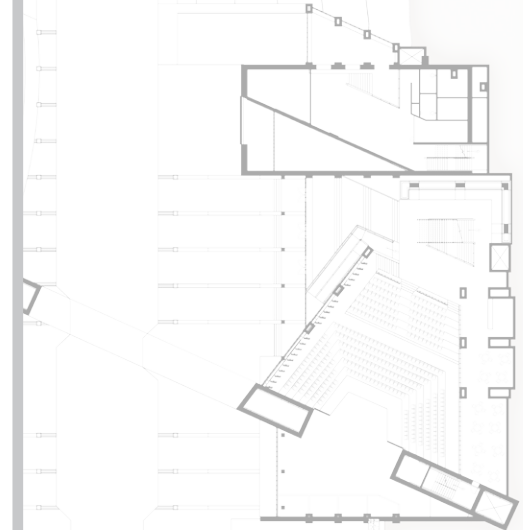
THEATRE BALCONY
PLANS



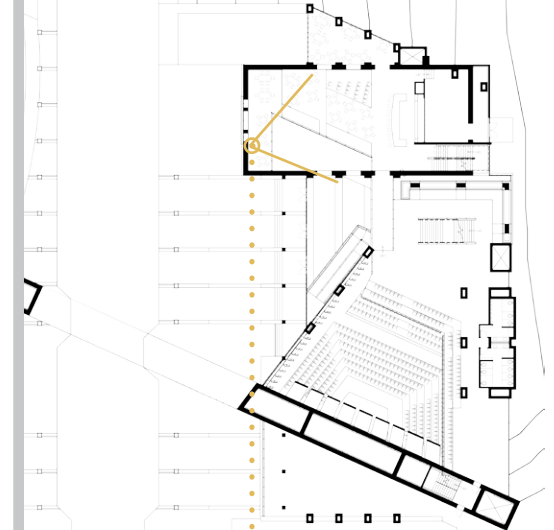
LEVEL 1



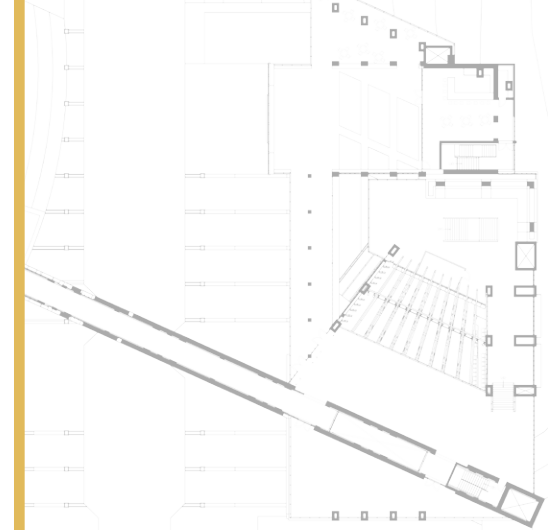
LEVEL 2



LEVEL 3

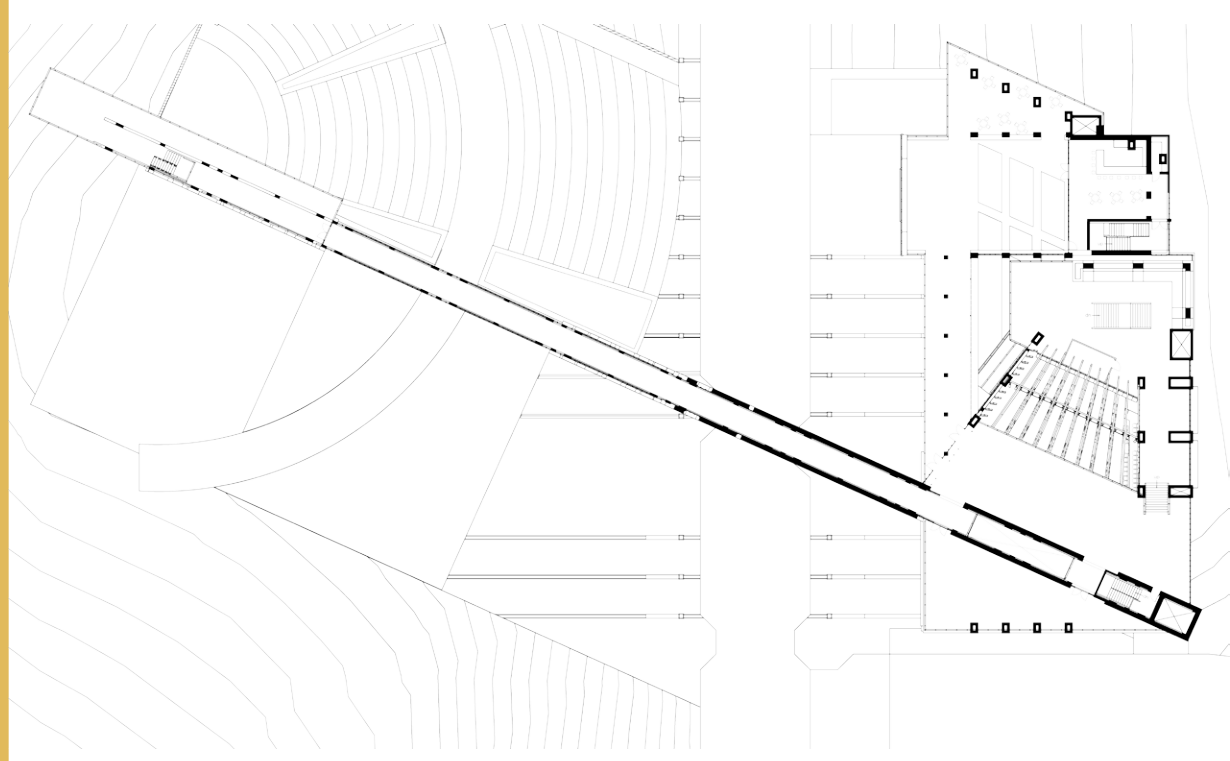
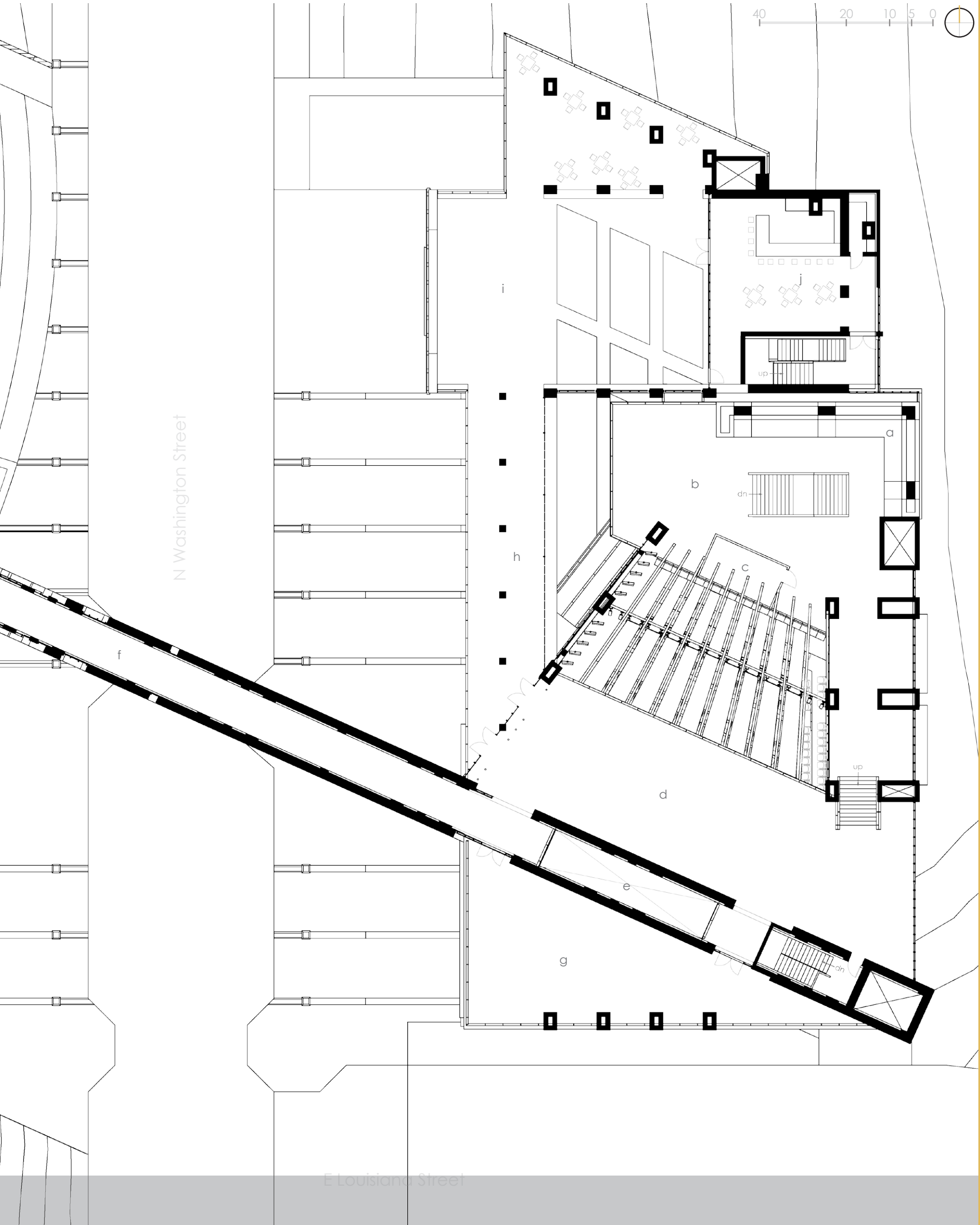


LEVEL 4



RESTAURANT
PLANS

DESIGN



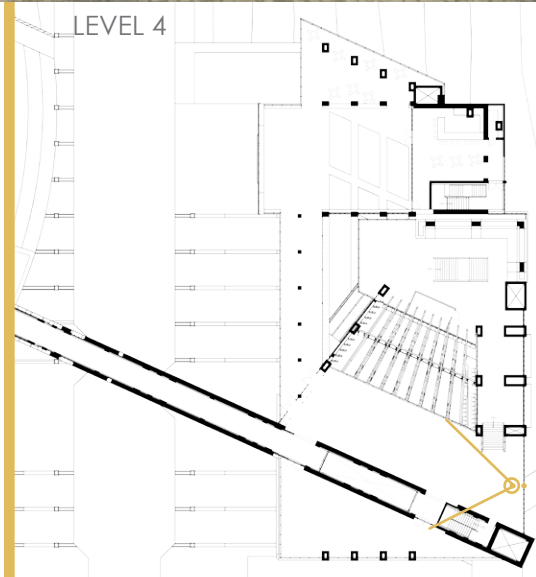
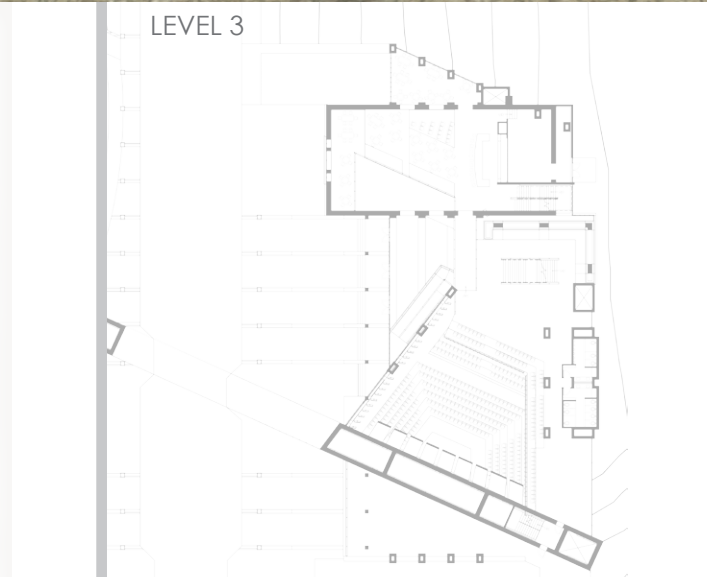
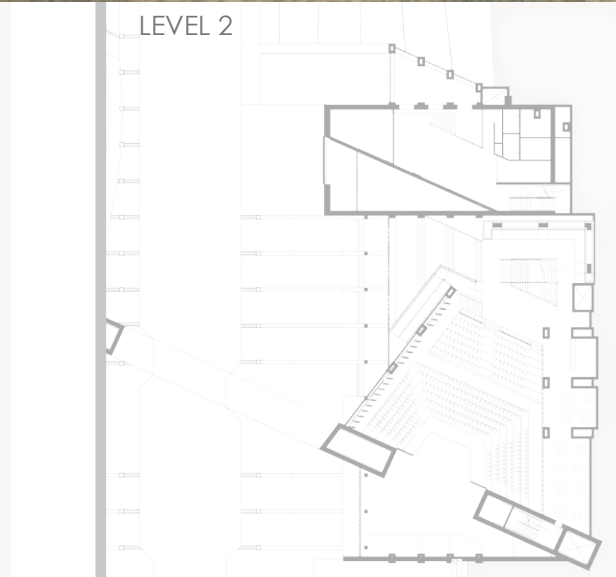
FLOOR 4/GALLERY
 ROOF DECK
 FLY TOWER BAR

- fireplace - a
 - gathering - b
 - control room - c
 - large gallery - d
 - fly tower open to below - e
 - walkway gallery - f
 - gallery roof deck - g
 - gallery balcony - h
 - roof deck - i
 - fly tower bar - j
- 3,000/17,000 s.f.

PLANS

E Louisiana Street

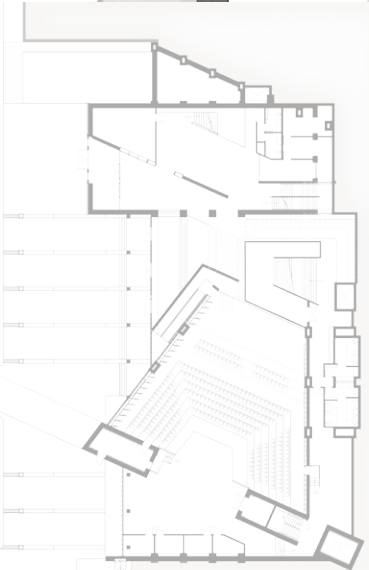
DESIGN



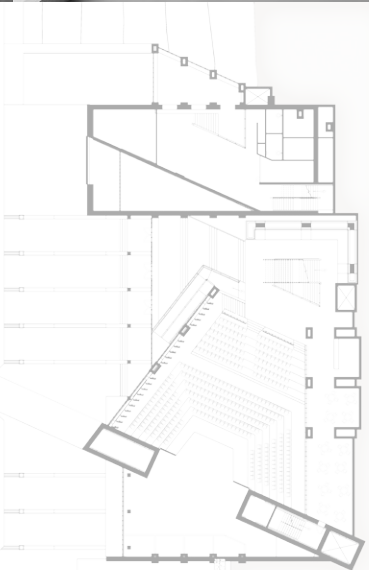
GALLERY
PLANS



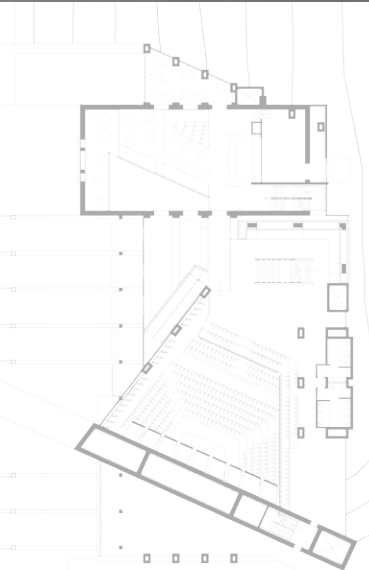
LEVEL 1



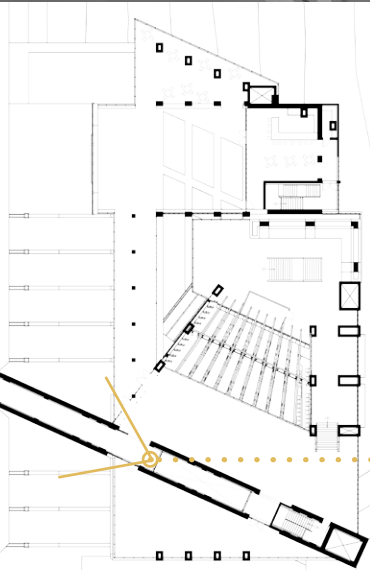
LEVEL 2



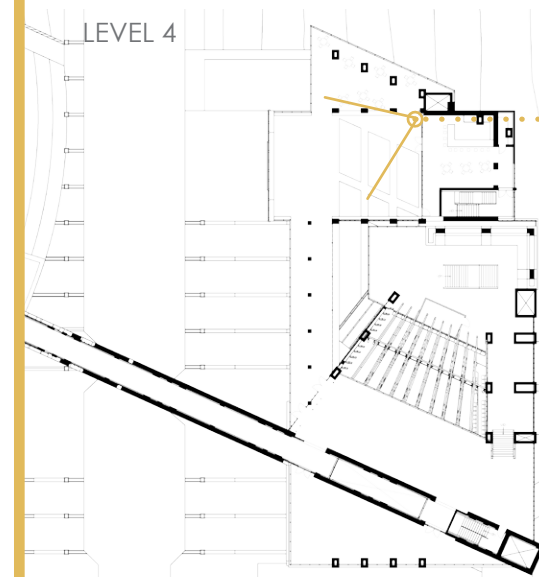
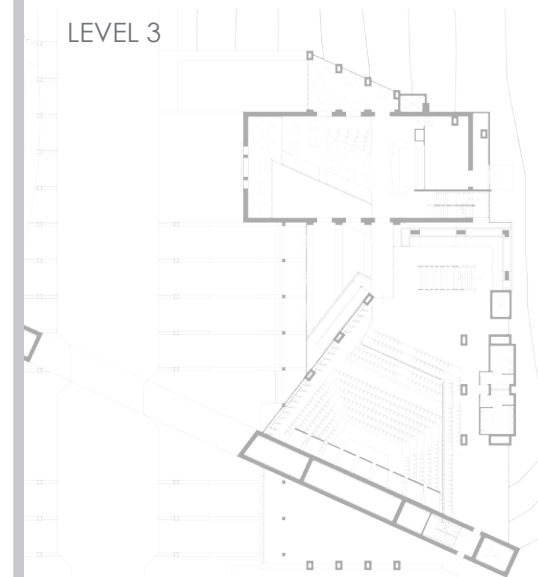
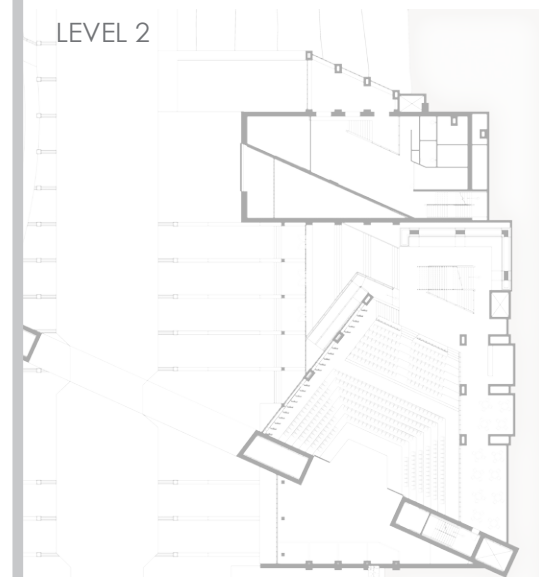
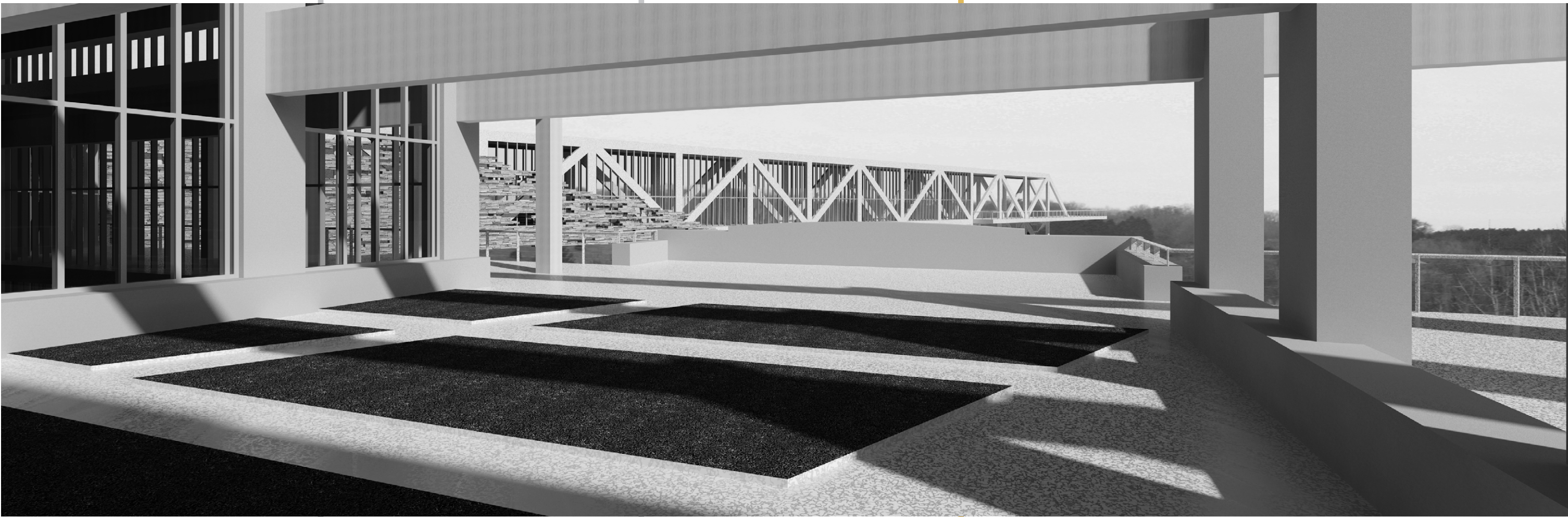
LEVEL 3



LEVEL 4



WALKWAY GALLERY
PLANS



ROOFDECK
PLANS



streetscape/plaza

existing theatre entry remains the primary entrance



SECTIONS
PLANS

DESIGN



backstage

restaurant

lobby

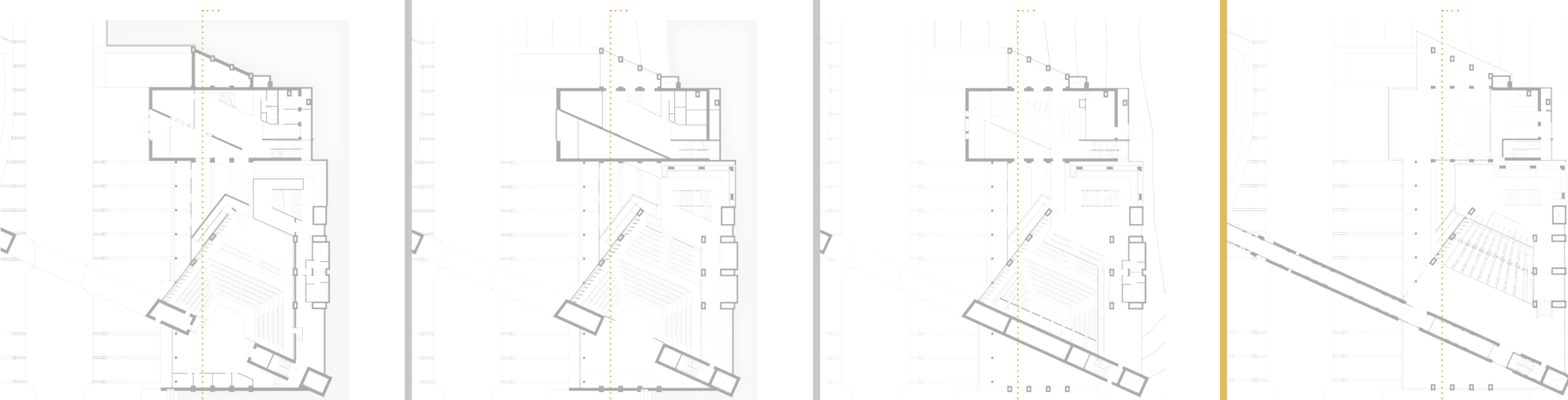
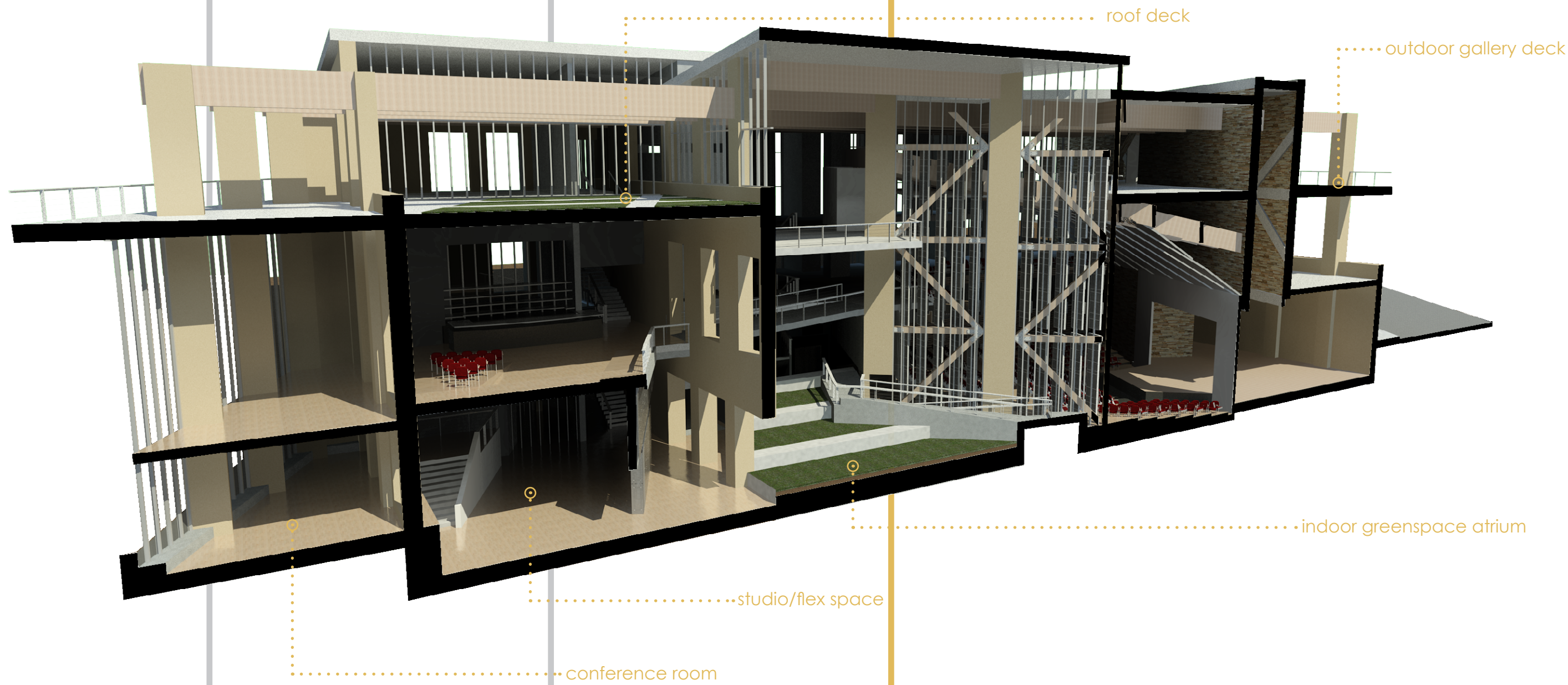
ticketing office

conference room



SECTIONS
PLANS

DESIGN



SECTIONS
PLANS

DESIGN



bar

gallery

fly tower

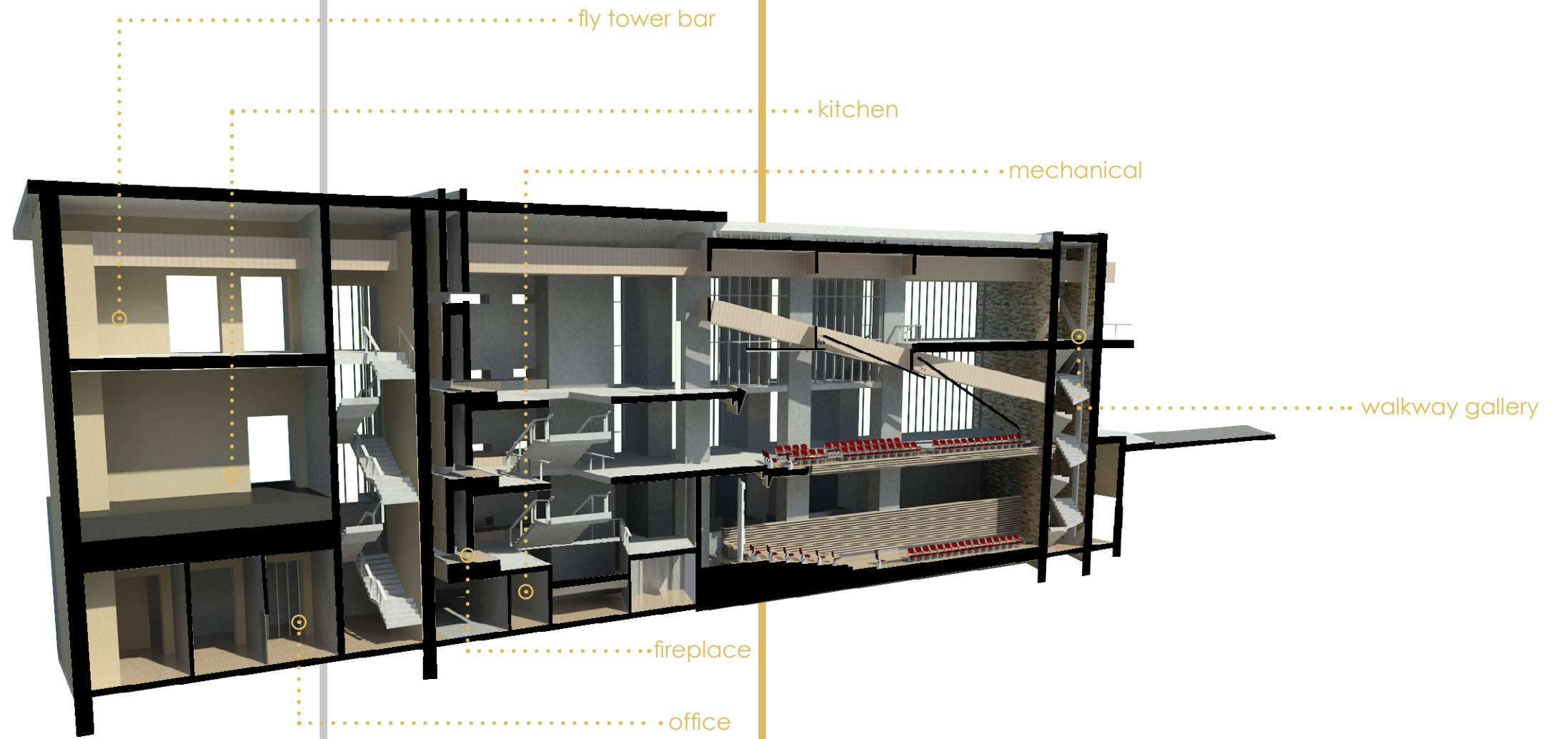
stage

theatre



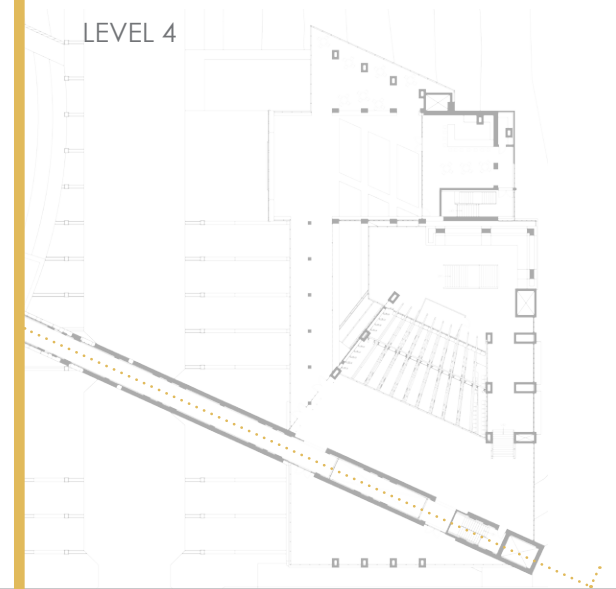
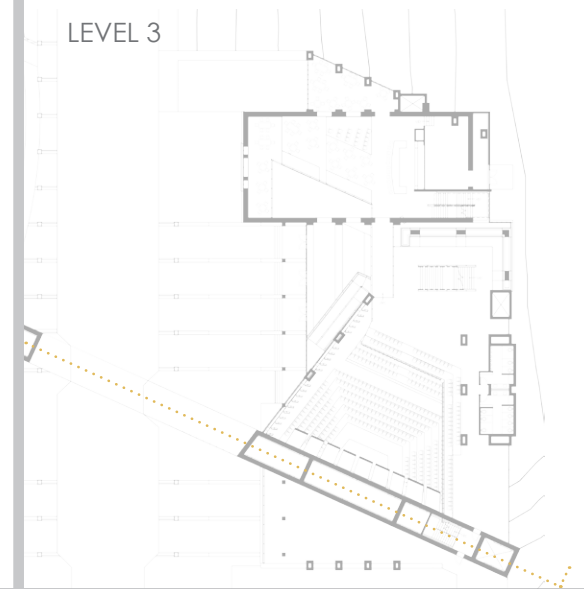
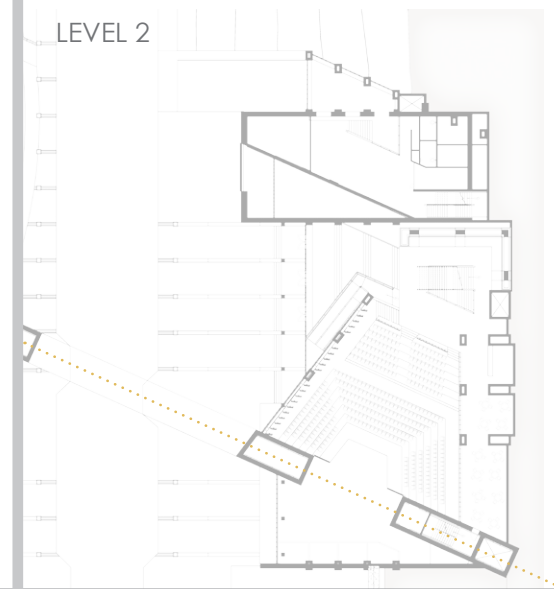
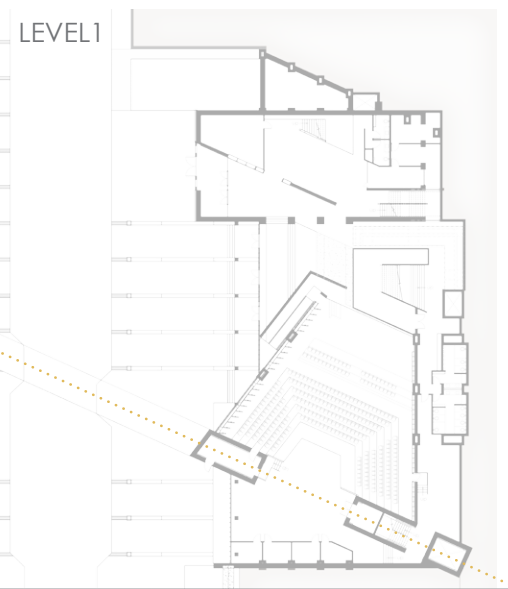
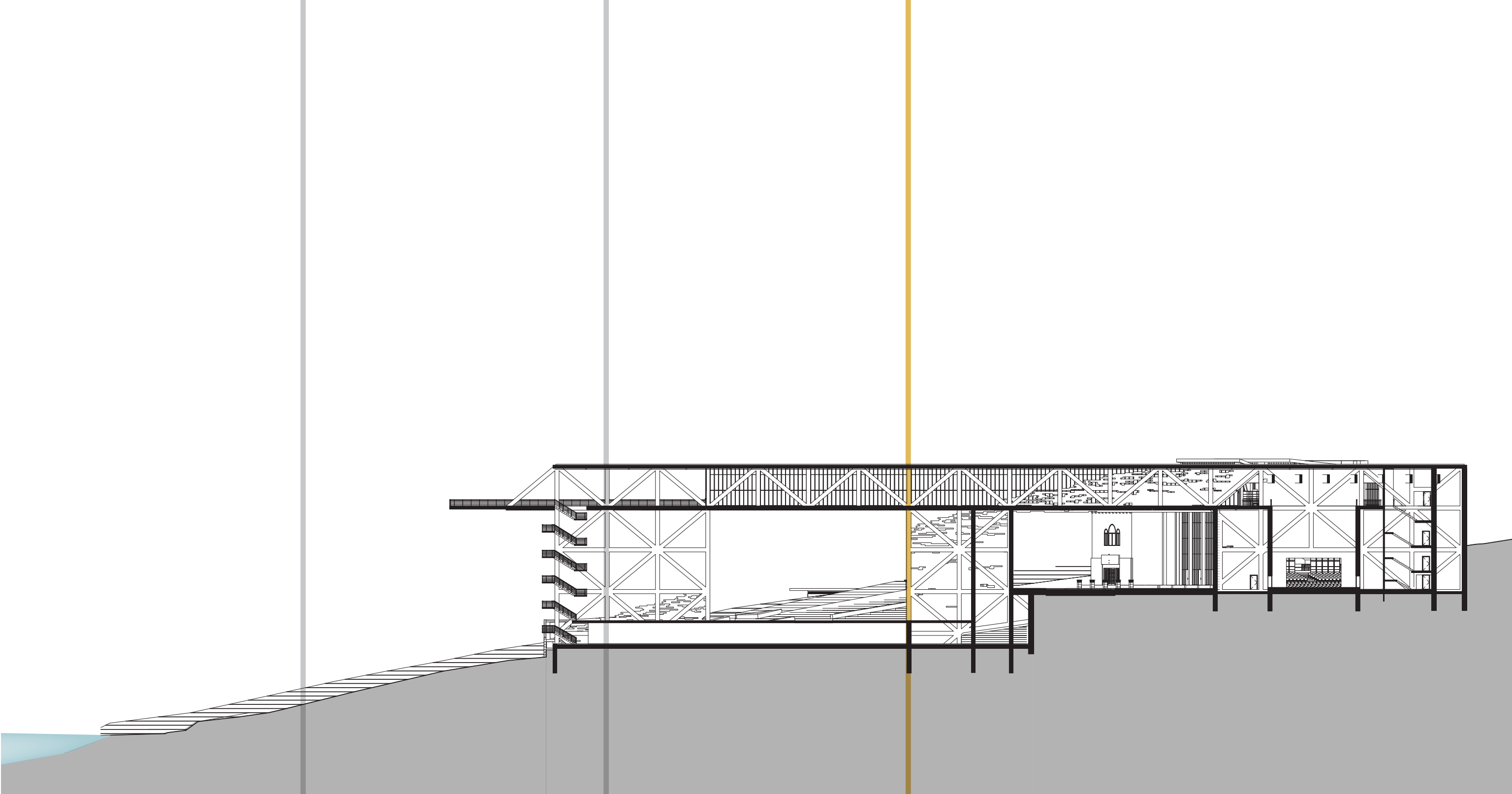
SECTIONS
PLANS

DESIGN



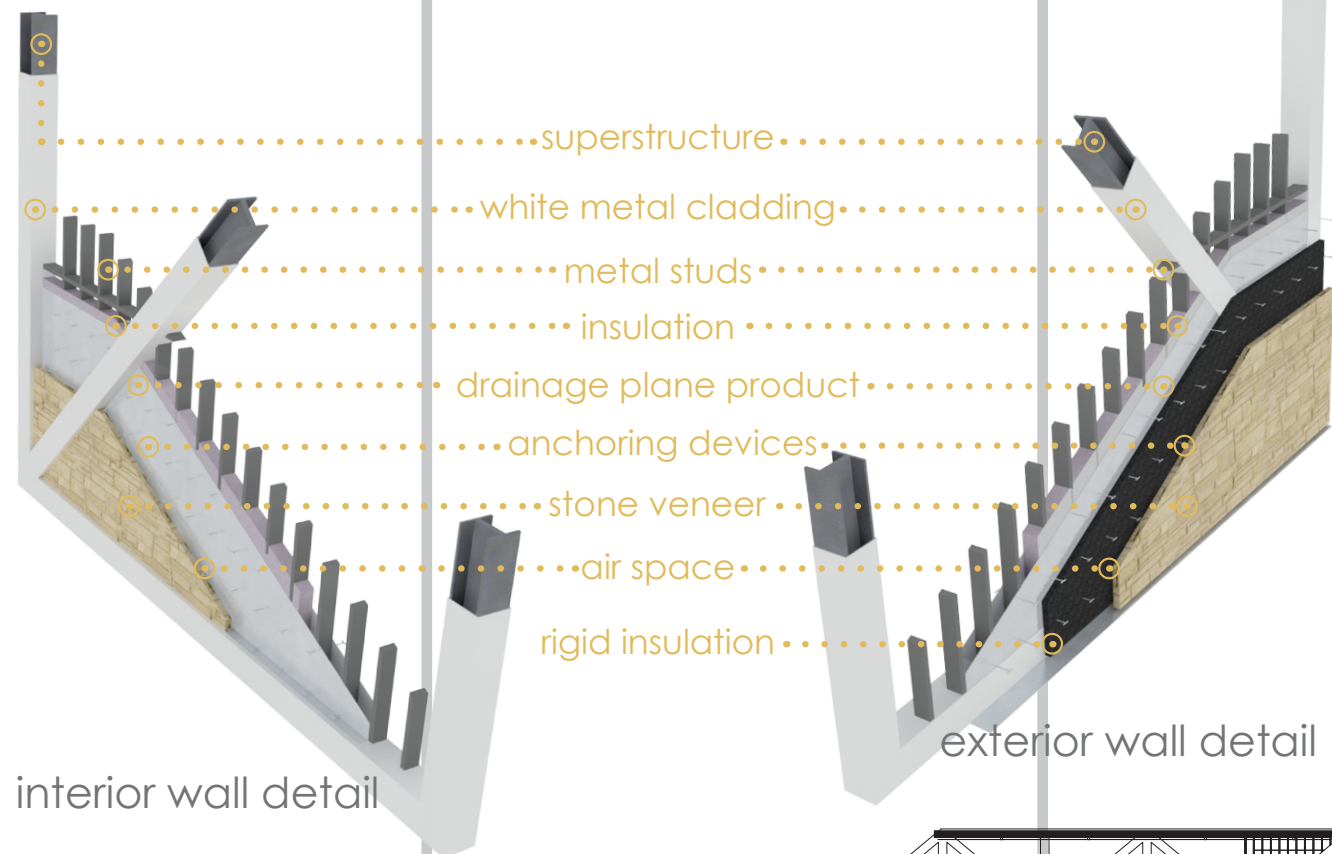
SECTIONS
PLANS

DESIGN



SECTION
PLANS

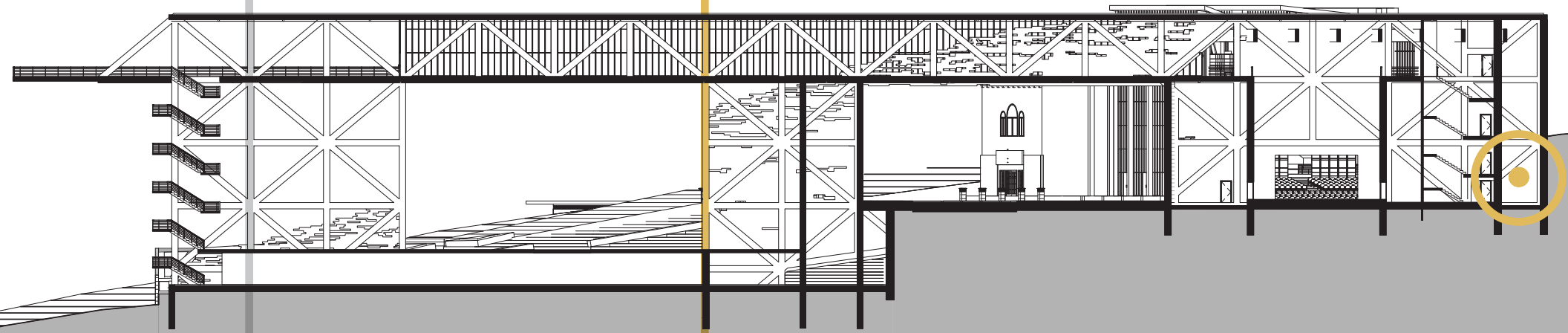
DETAILS



interior wall detail

exterior wall detail

-superstructure.....
-white metal cladding.....
-metal studs.....
-insulation.....
-drainage plane product.....
-anchoring devices.....
-stone veneer.....
-air space.....
-rigid insulation.....



LEVEL 1

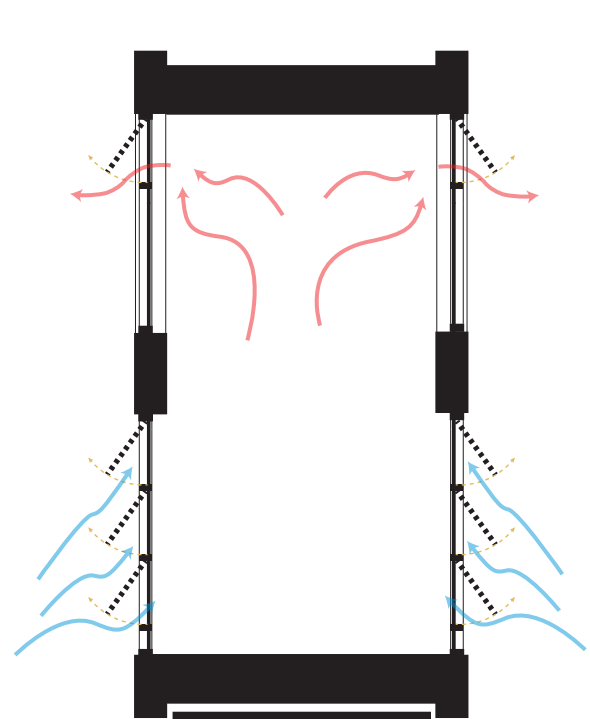
LEVEL 2

LEVEL 3

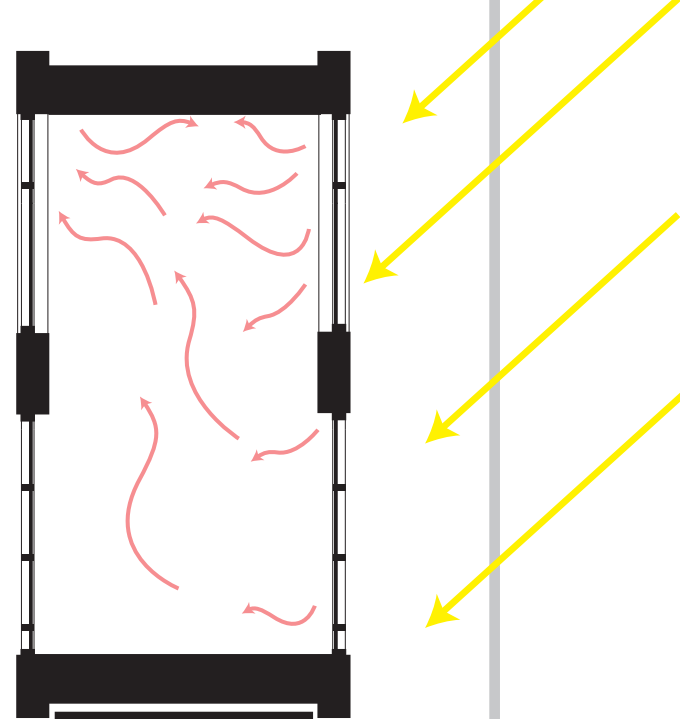
LEVEL 4



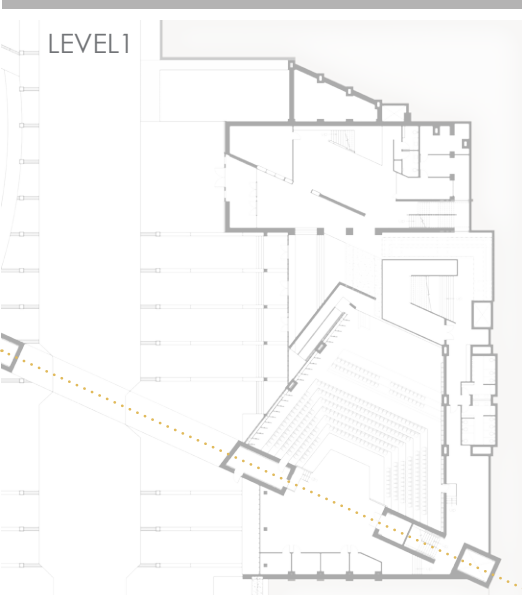
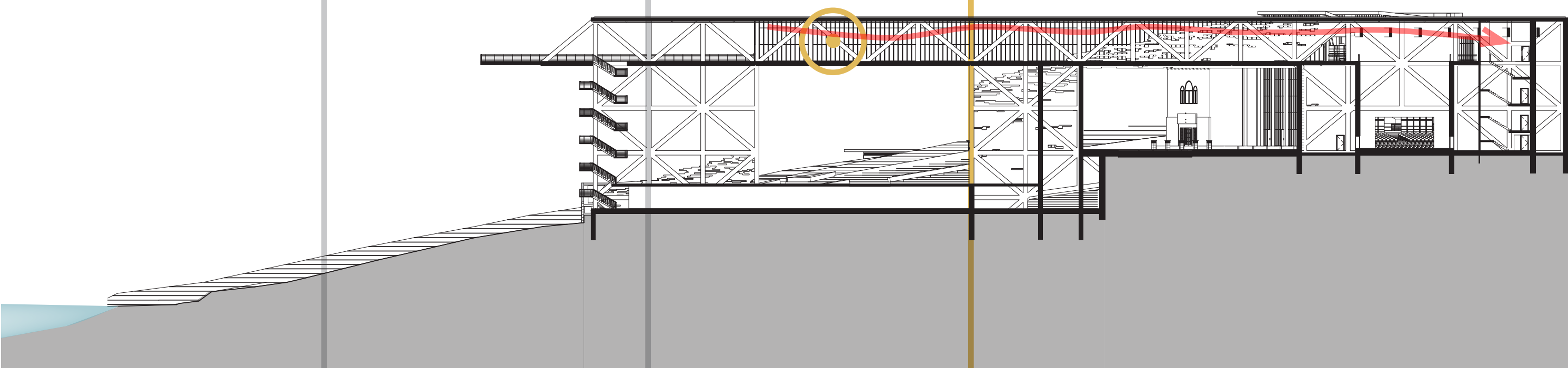
WALL DETAIL
SECTION
PLANS



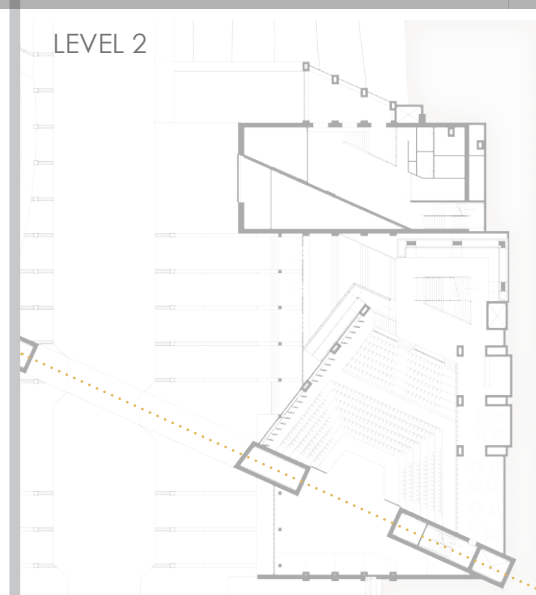
SUMMER



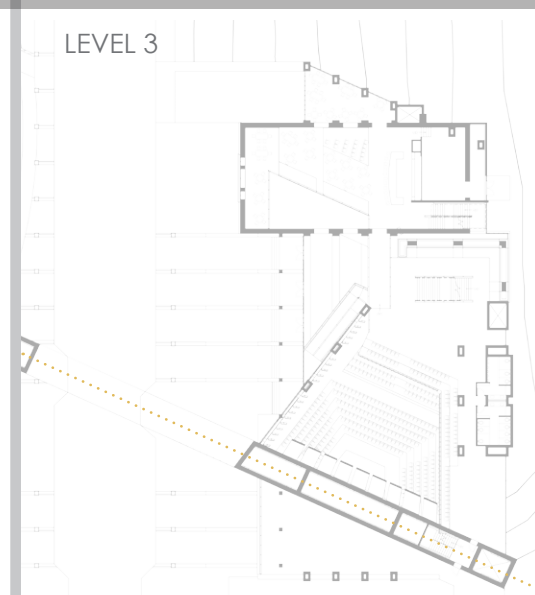
WINTER



LEVEL 1



LEVEL 2

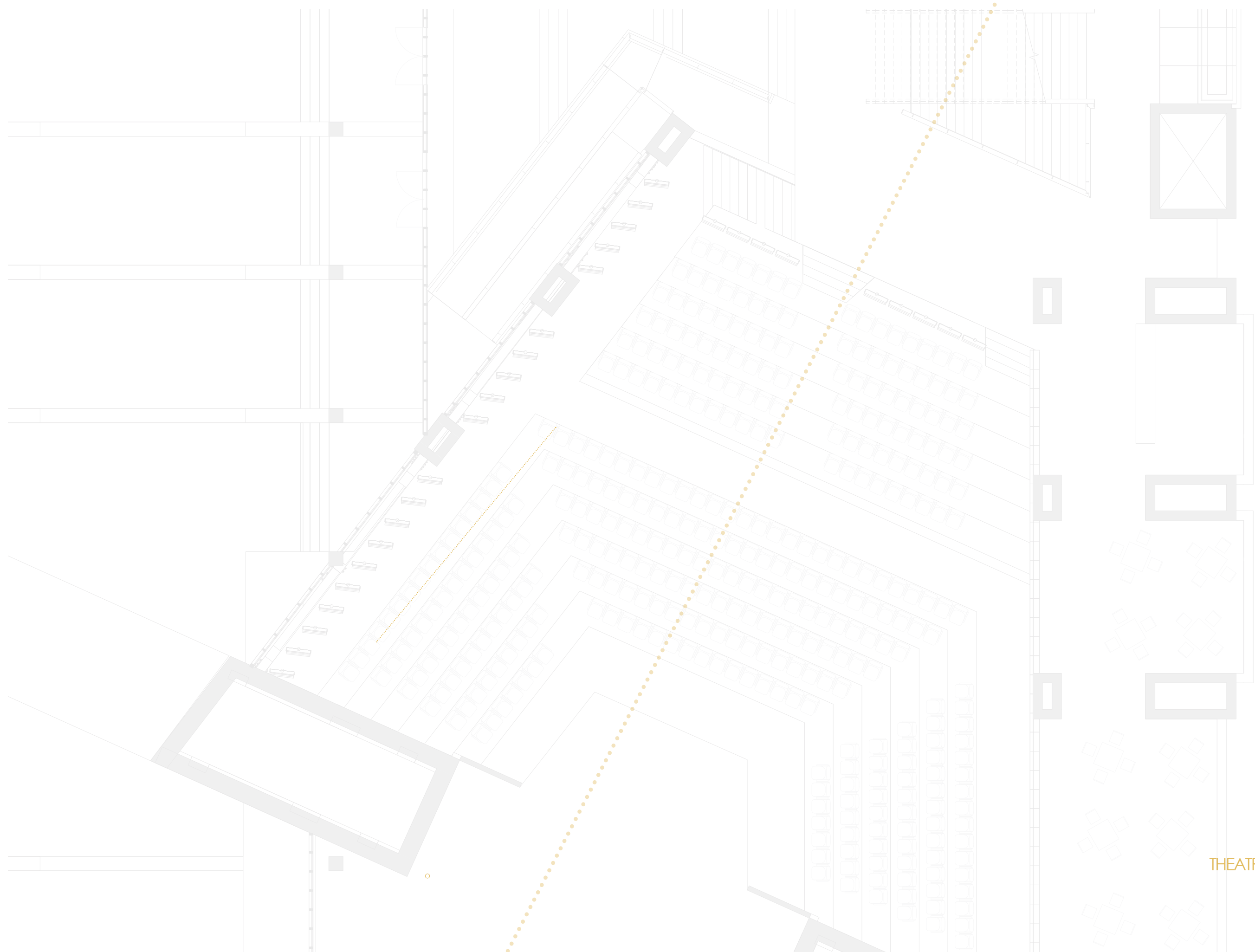


LEVEL 3



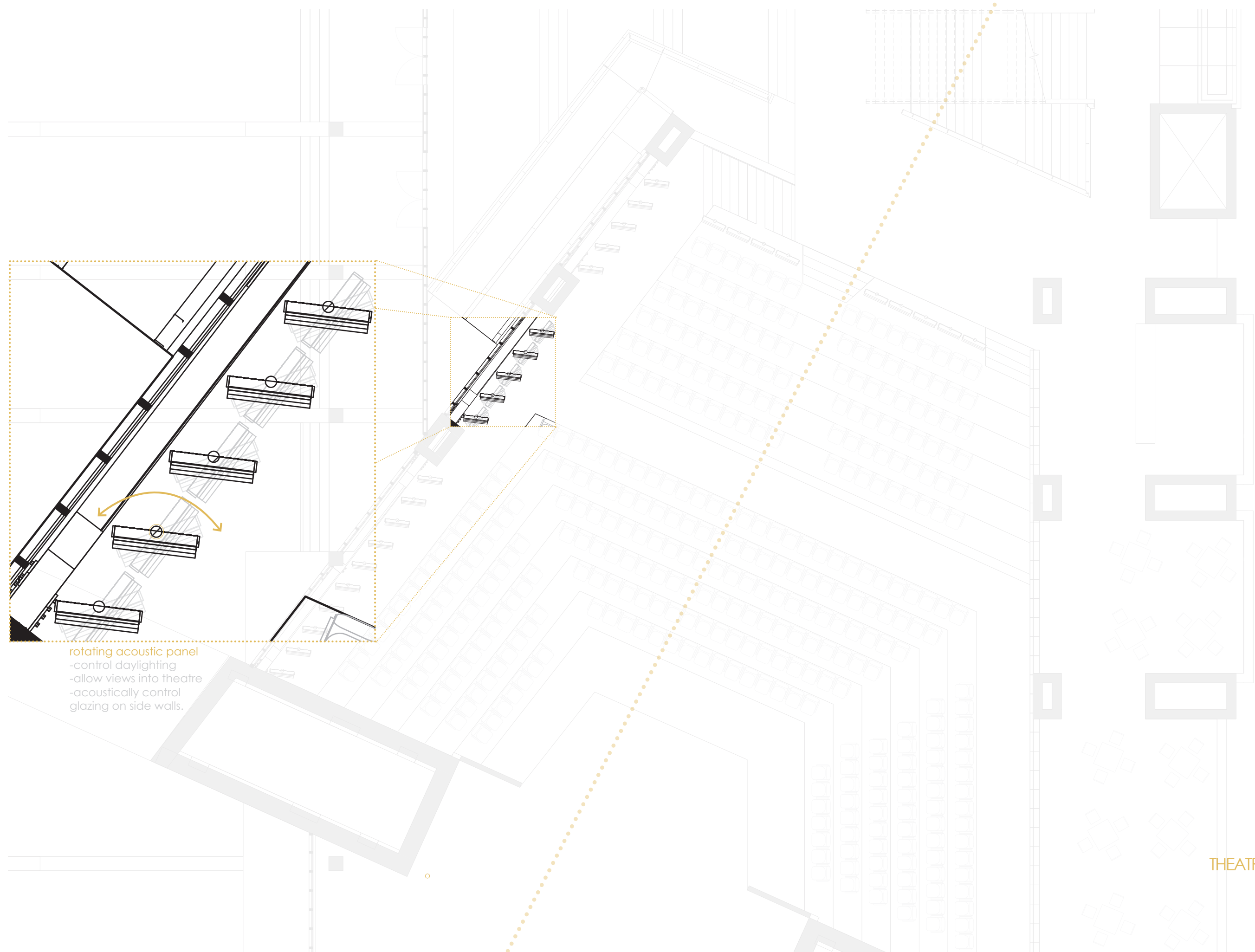
LEVEL 4

SECTION DETAILS
WALL DETAIL
SECTION
PLANS



THEATRE PLAN

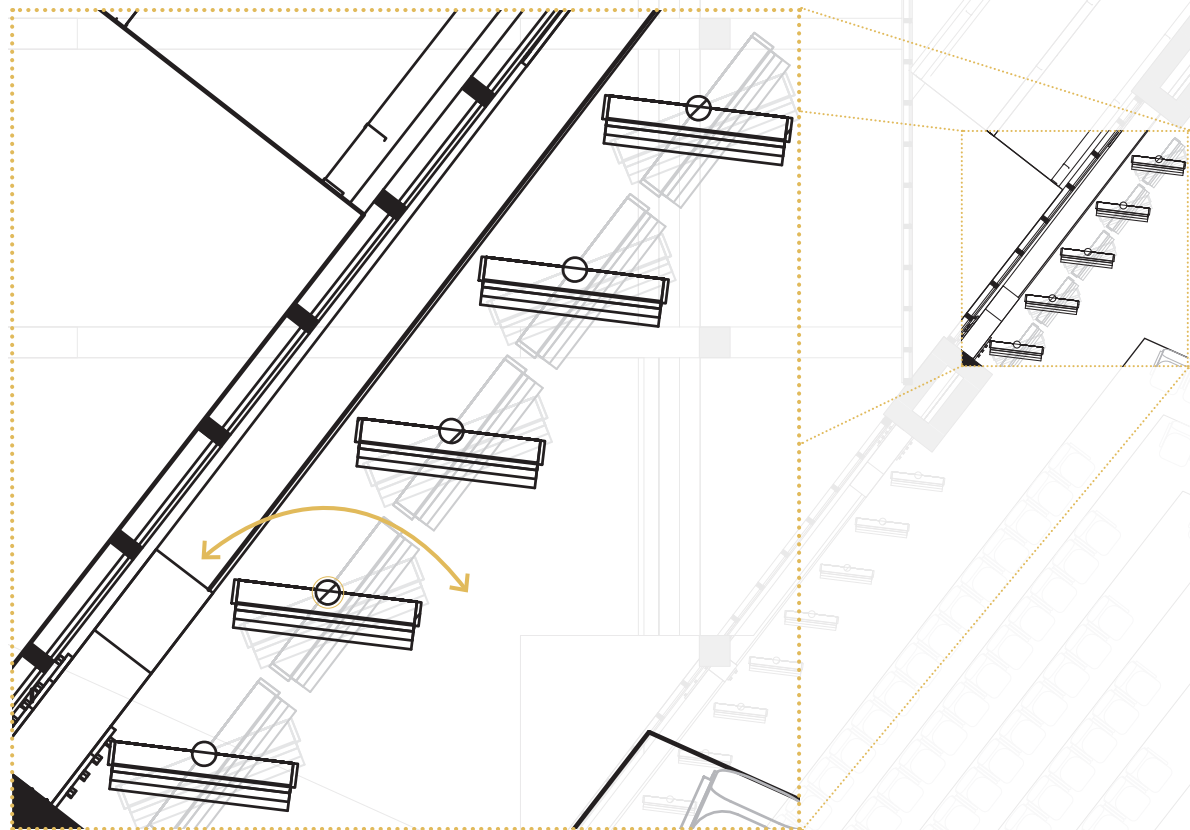
DETAILS



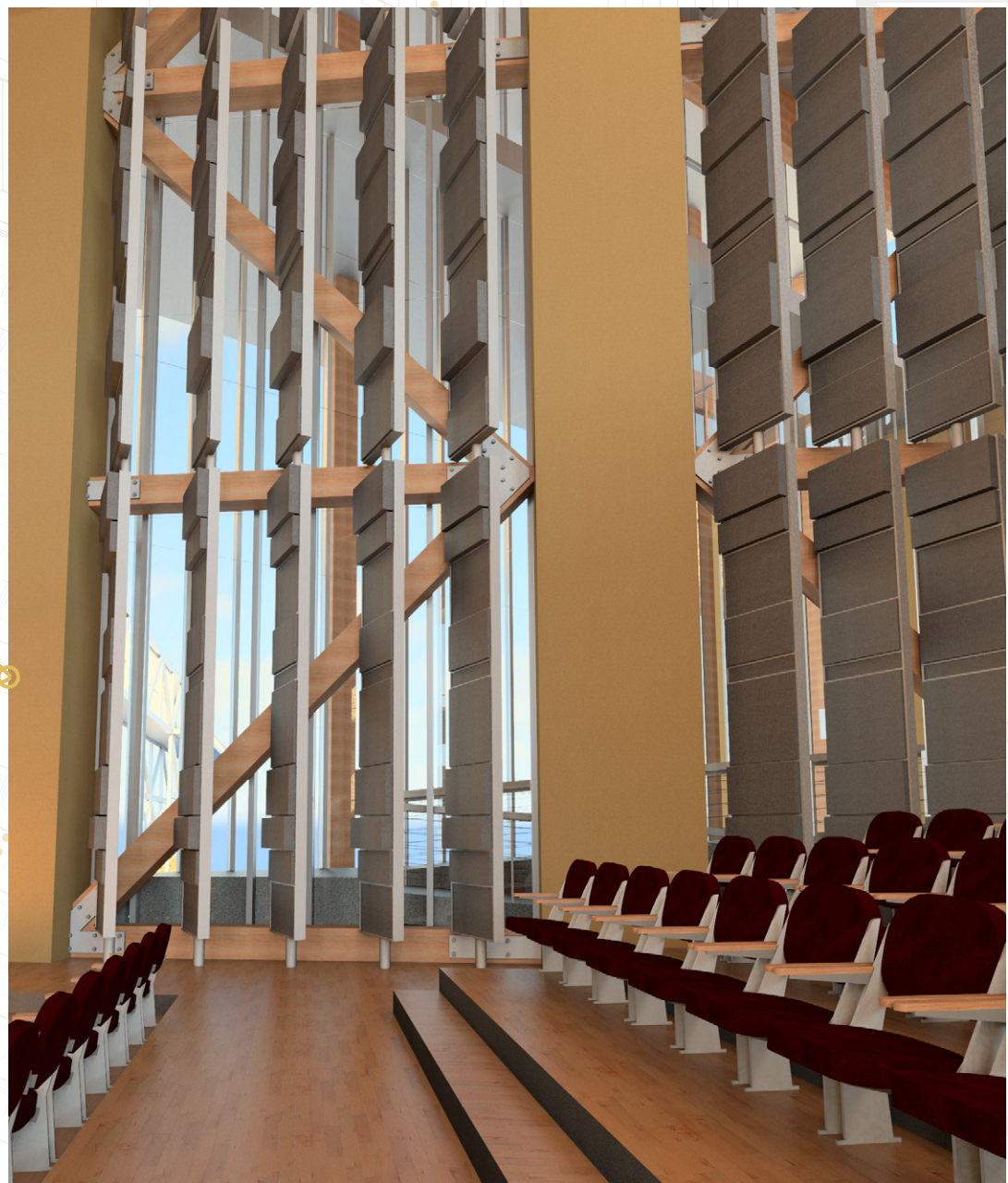
rotating acoustic panel
-control daylighting
-allow views into theatre
-acoustically control
glazing on side walls.

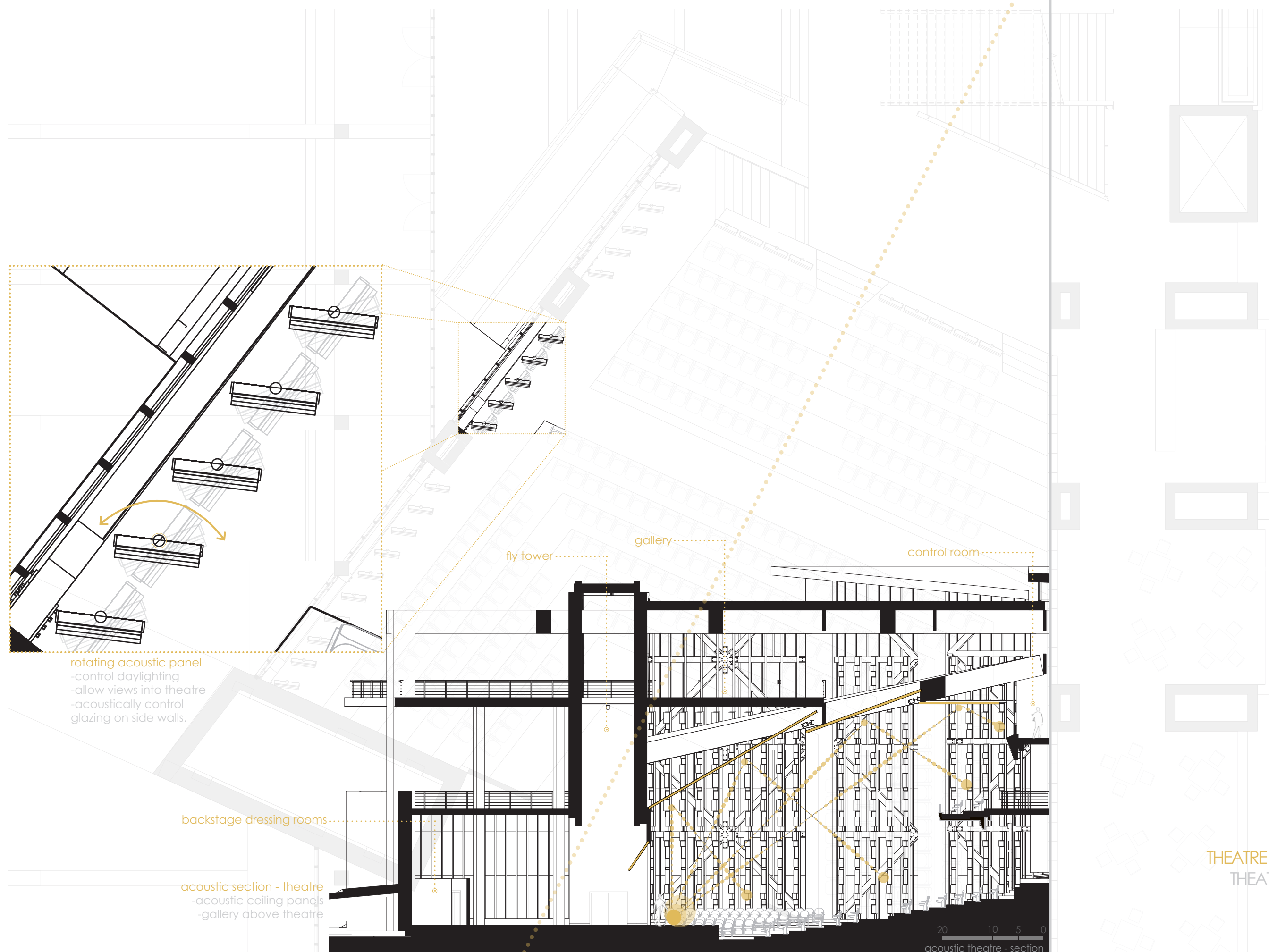
THEATRE PLAN

DETAILS



rotating acoustic panel
-control daylighting
-allow views into theatre
-acoustically control
glazing on side walls.



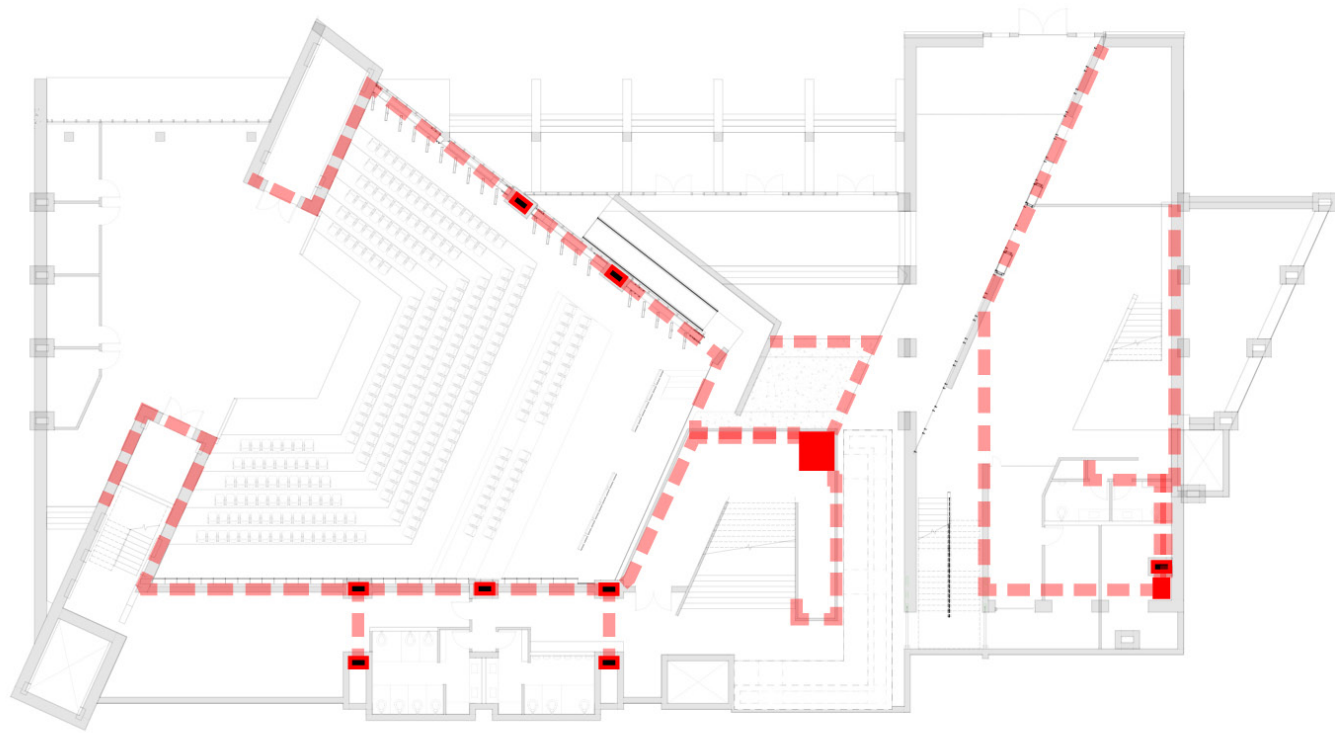


rotating acoustic panel
-control daylighting
-allow views into theatre
-acoustically control
glazing on side walls.

backstage dressing rooms

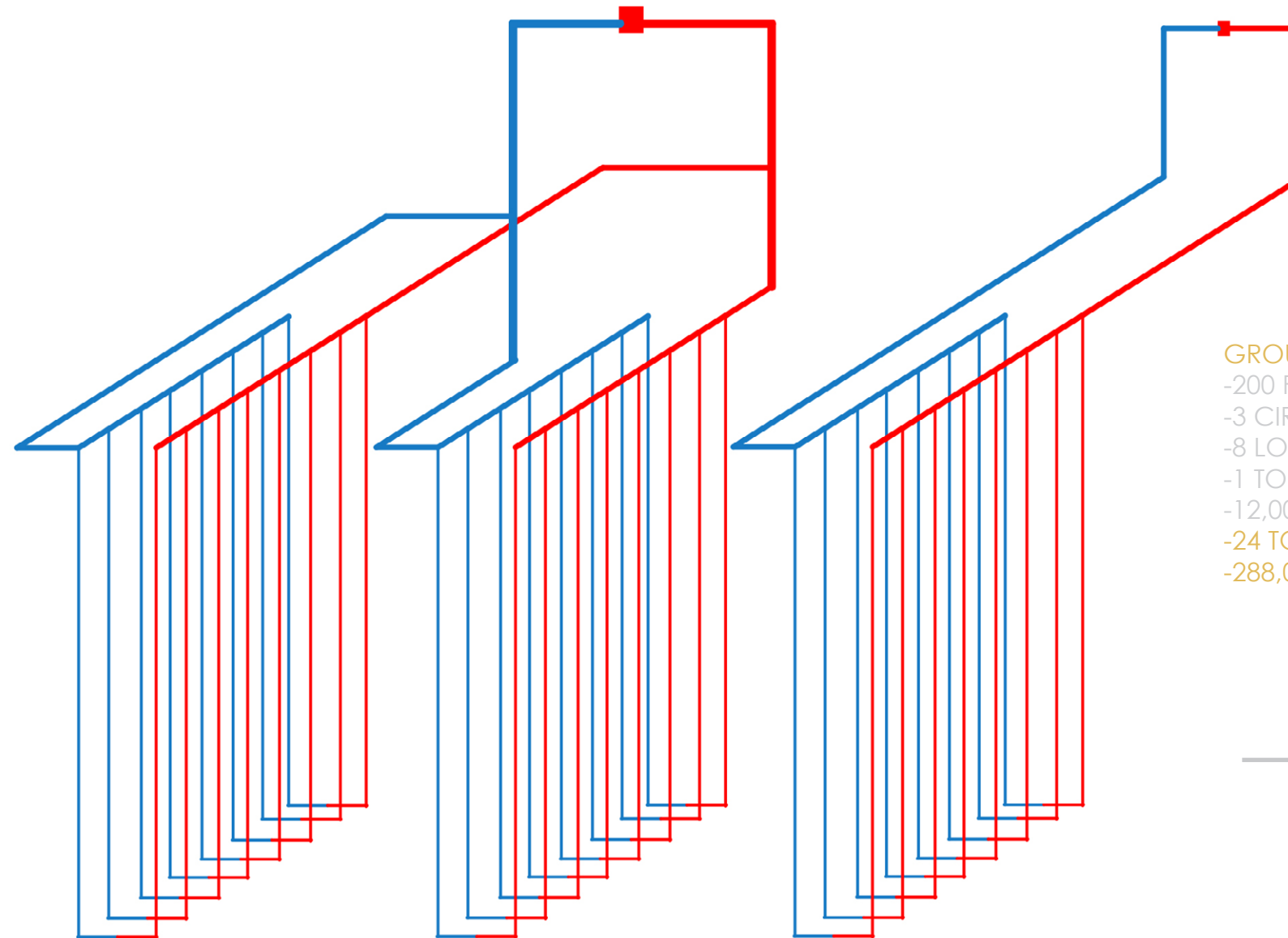
acoustic section - theatre
-acoustic ceiling panels
-gallery above theatre

fly tower
gallery
control room



HEATING/COOLING DELIVERY SYSTEM
 -Ductwork to deliver heating/cooling throughout the building.

HEAT PUMP
 -Mechanical unit that concentrates working fluid and transfers it to circulating air.



GROUND HEAT EXCHANGER
 -200 FOOT DEPTH
 -3 CIRCUITS
 -8 LOOPS ON EACH CIRCUIT
 -1 TON CAPACITY/LOOP
 -12,000 BTU/TON
 -24 TON CAPACITY TOTAL
 -288,000 BTU/HOUR

GEO THERMAL EXCHANGE

