

THE VIRGINIA ADVANCED SHIPBUILDING AND CARRIER INTEGRATION CENTER



BUILDING INFORMATION

DESIGN CONCEPTS

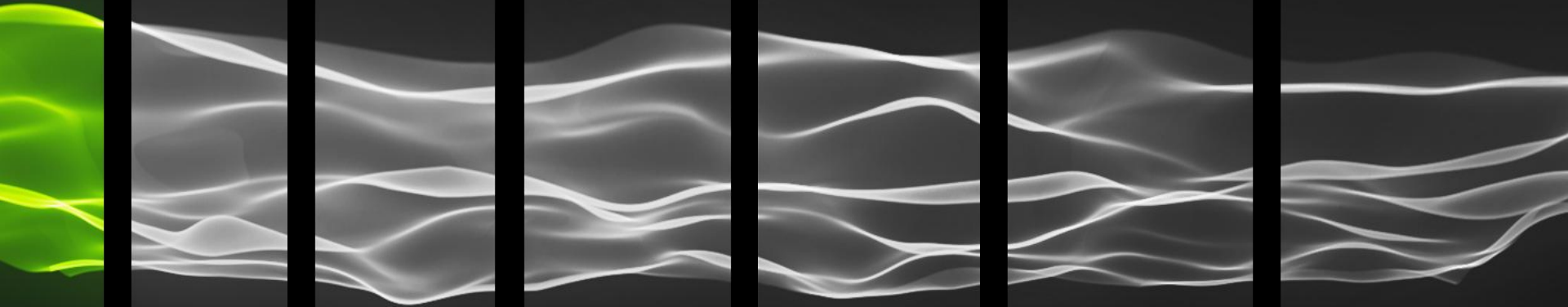
MULTI-PURPOSE | AUDITORIUM

WORK SPACE | OPEN OFFICE

CIRCULATION | LOBBY/ATRIUM

EXTERIOR | GATHERING SPACE

BUILDING INFORMATION



ARIAL VIEW



James River





BUILDING STATISTICS

LOCATION: NEWPORT NEWS, VIRGINIA ALONG THE JAMES RIVER

OWNER: NORTHROP GRUMMAN, NN (NEWPORT NEWS SHIPBUILDING)

OCCUPANT: RESEARCH, OFFICE, SHIPBUILDING

SIZE: 7 STORY OFFICE BUILDING – 115,000 SF
3 STORY LABORATORY WING – 125,000 SF
TOTAL: 241,000 SF

COST: \$58 MILLION

DESIGN TEAM

A/E: CLARK NEXSEN ARCHITECTURE AND ENGINEERING

PURPOSE

- ENHANCE AND PROMOTE THE QUALITY AND COMPETITIVENESS OF VIRGINIA'S SHIPBUILDING INDUSTRY
- PROVIDE GROUND FOR ADVANCED SHIPBUILDING AND OPERATION TECHNOLOGIES BEFORE INTRODUCING TO SHIPS
- *NIMITZ* -AND- *FORD* CLASS NUCLEAR-POWERED AIRCRAFT CARRIERS
- *VIRGINIA*-CLASS ATTACK SUBMARINES
- SURFACE COMBATANCE, AMPHIBIOUS ASSAULT SHIPS
- U.S COAST GUARD NATIONAL SECURITY CUTTERS AND FLEET/MAINTENANCE SUPPORT



CVN-69 USS DWIGHT D.
EISENHOWER



CVN-68 USS NIMITZ

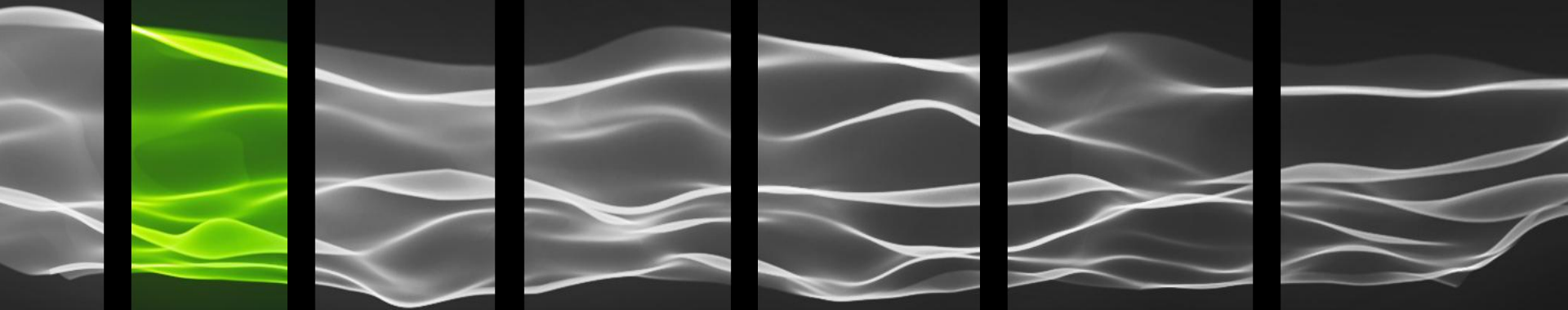


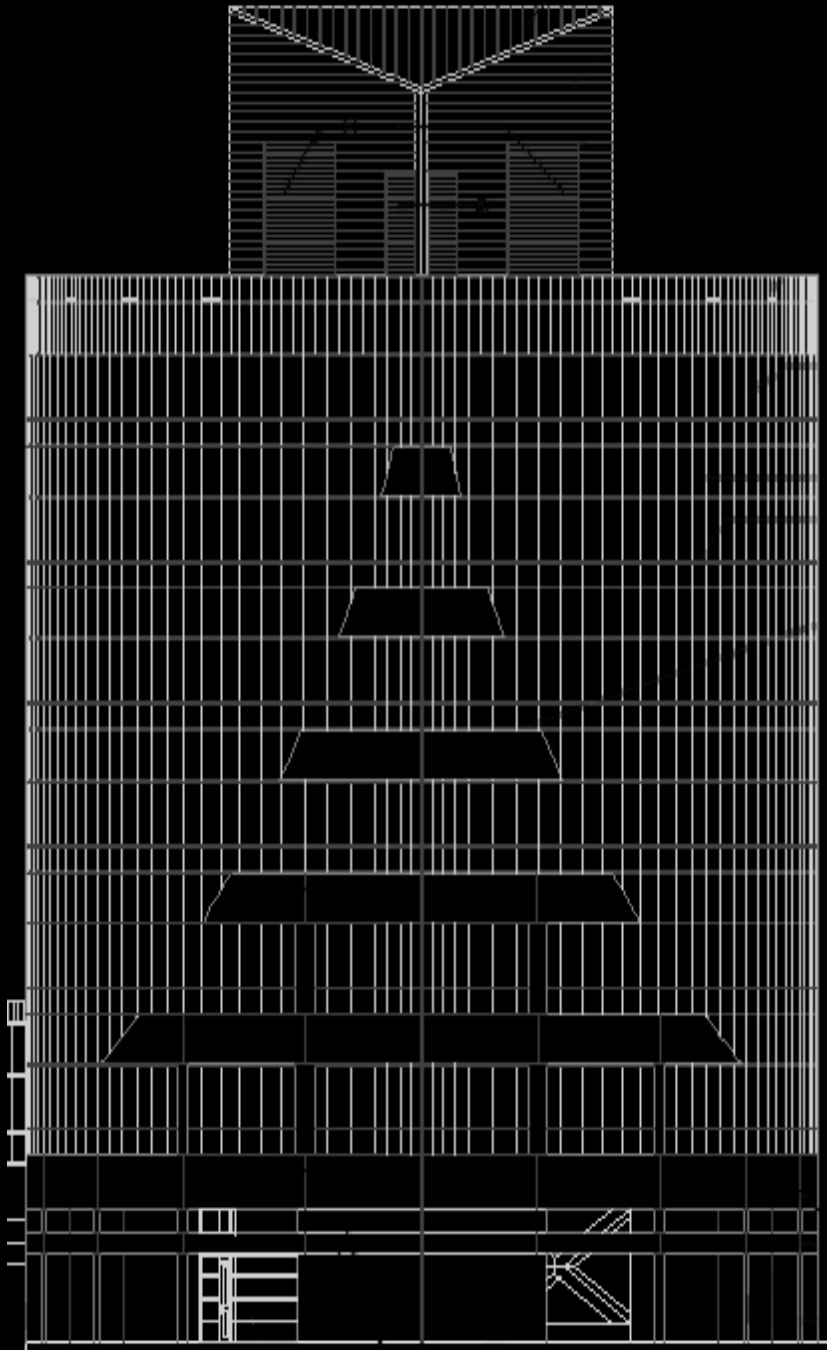
CVN-78 USS GERALD R.
FORD



VSN VIRGINIA-CLASS ATTACK
SUBMARINE

DESIGN CONCEPTS





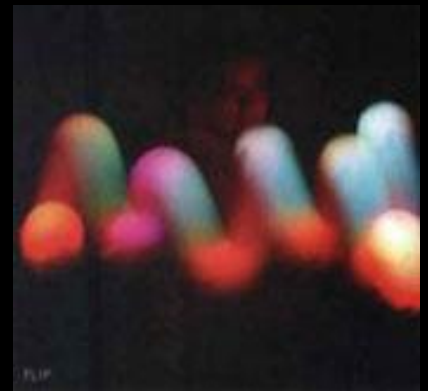


Free Flowing

Dy**N**amIc

LIQUID

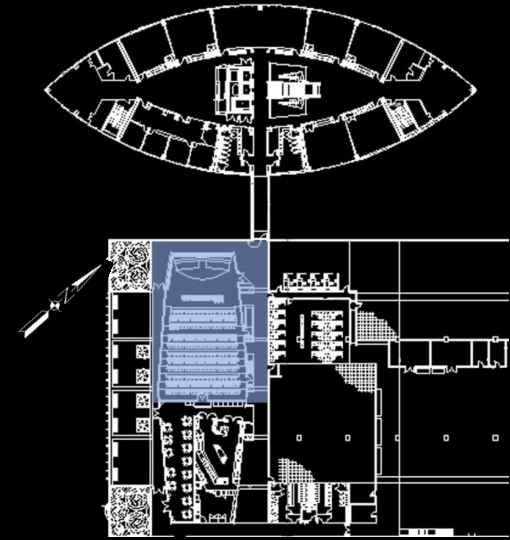
Fluid



The image features a dark gray background with seven vertical stripes of varying widths. The central stripe is a vibrant green, while the others are white. Each stripe contains a wavy, ethereal pattern that resembles smoke or liquid. The text 'MULTI-PURPOSE | AUDITORIUM' is centered horizontally across the green stripe.

MULTI-PURPOSE | AUDITORIUM

MULTI-PURPOSE | AUDITORIUM

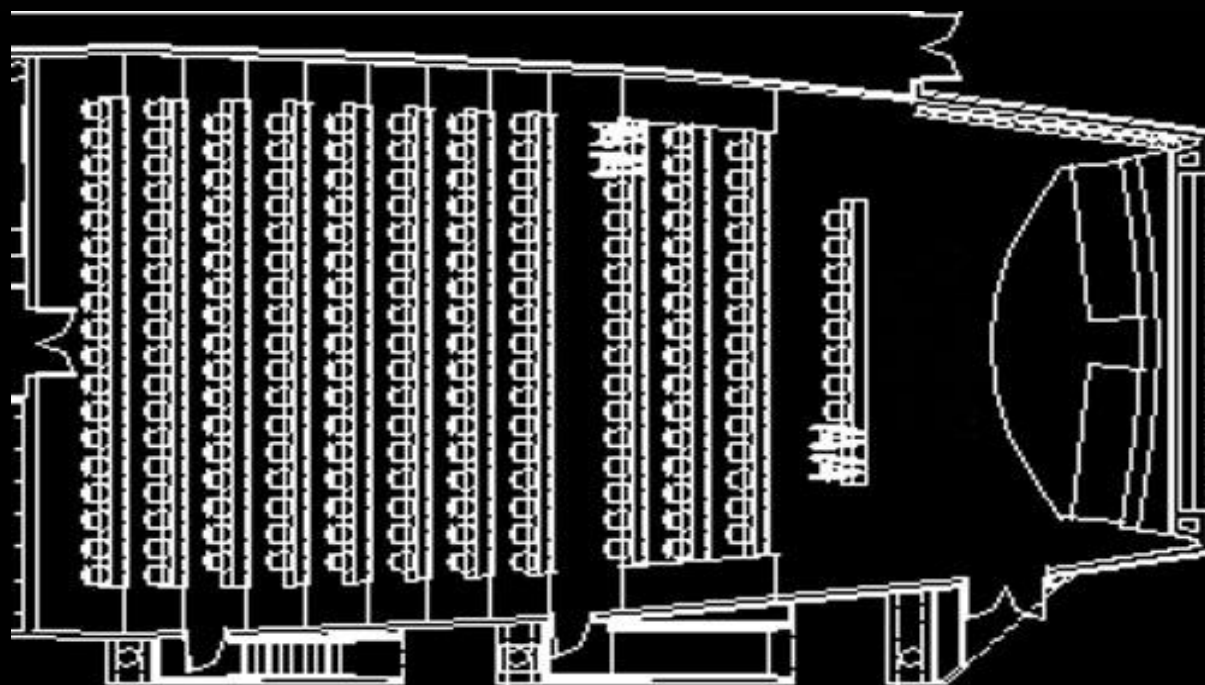
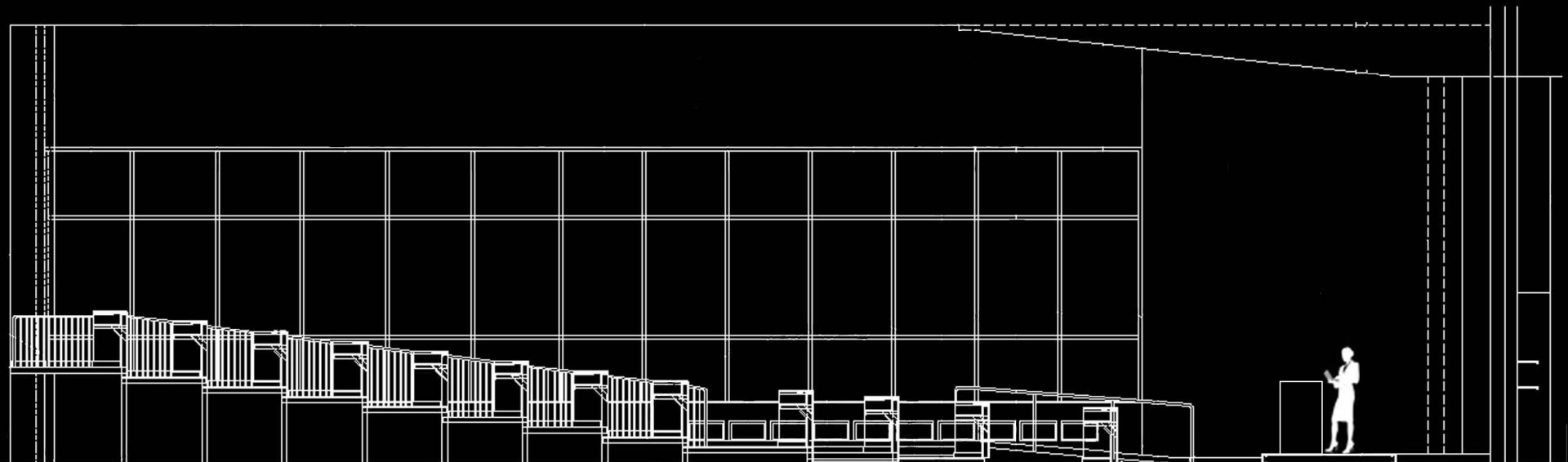


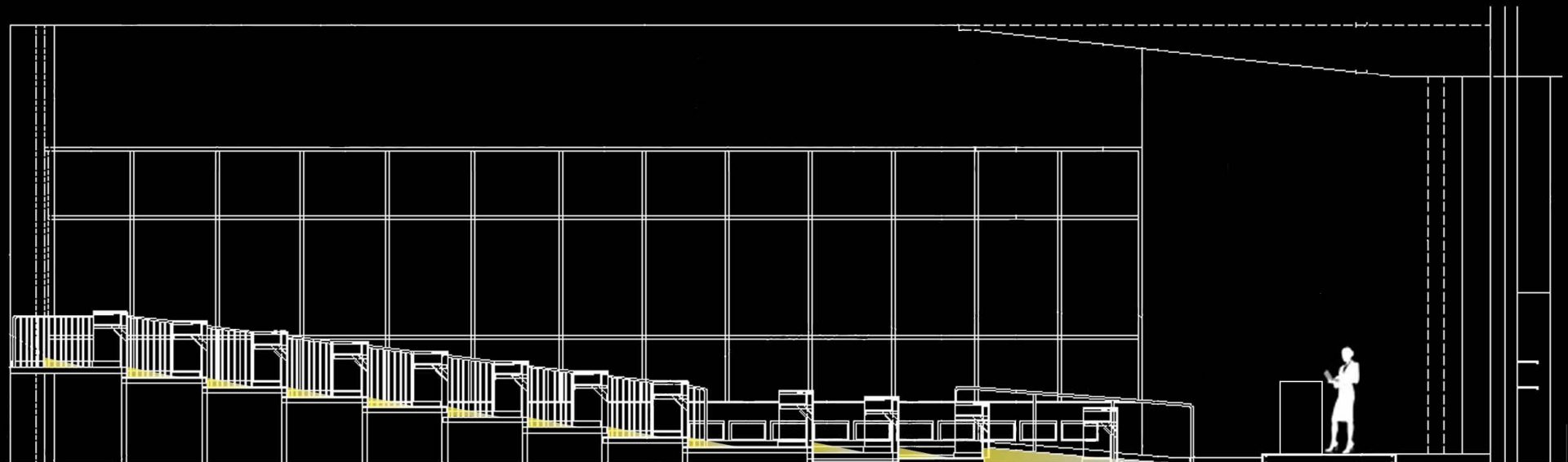
DESIGN CONSIDERATIONS:

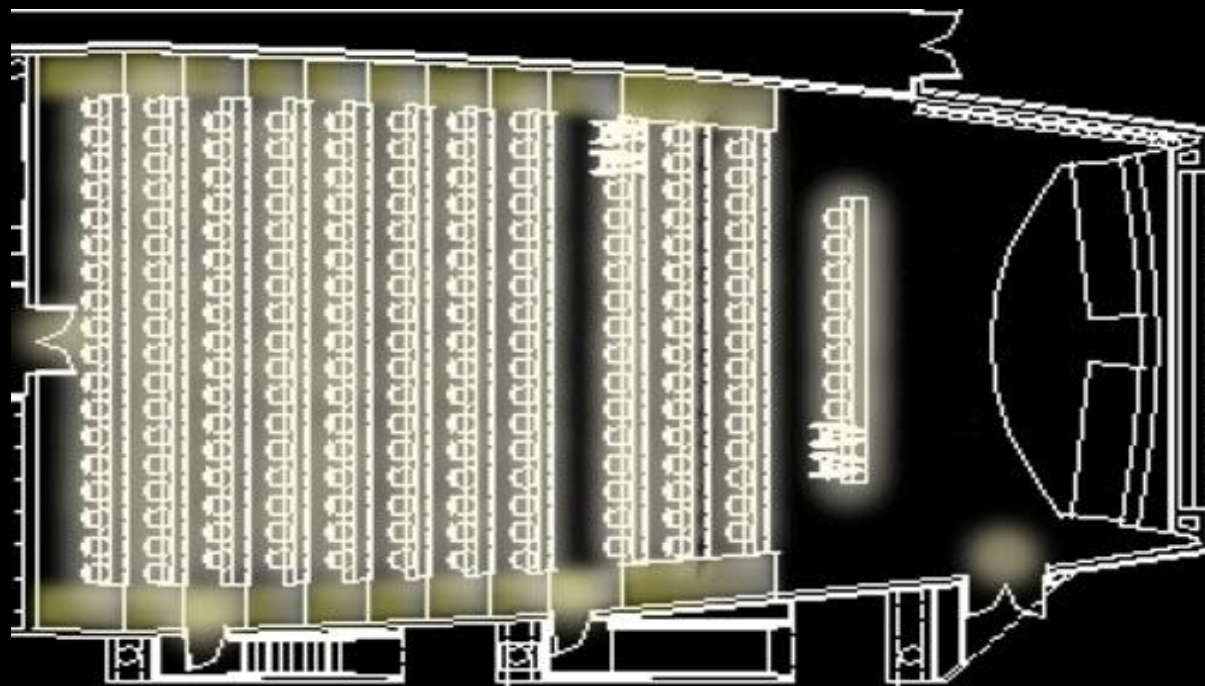
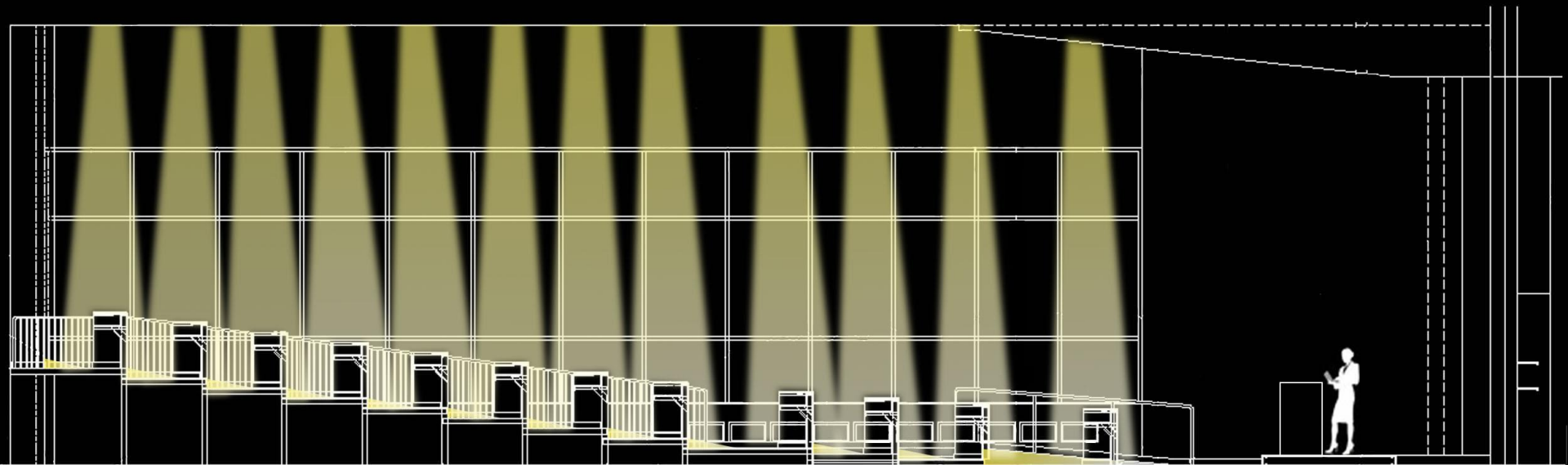
- TASK SURFACE ILLUMINANCE
- VERTICAL ILLUMINANCE
- PROJECTION SCREEN GLARE
- DAYLIGHTING FROM WINDOWS
- STAGE/SPEAKER LIGHTING

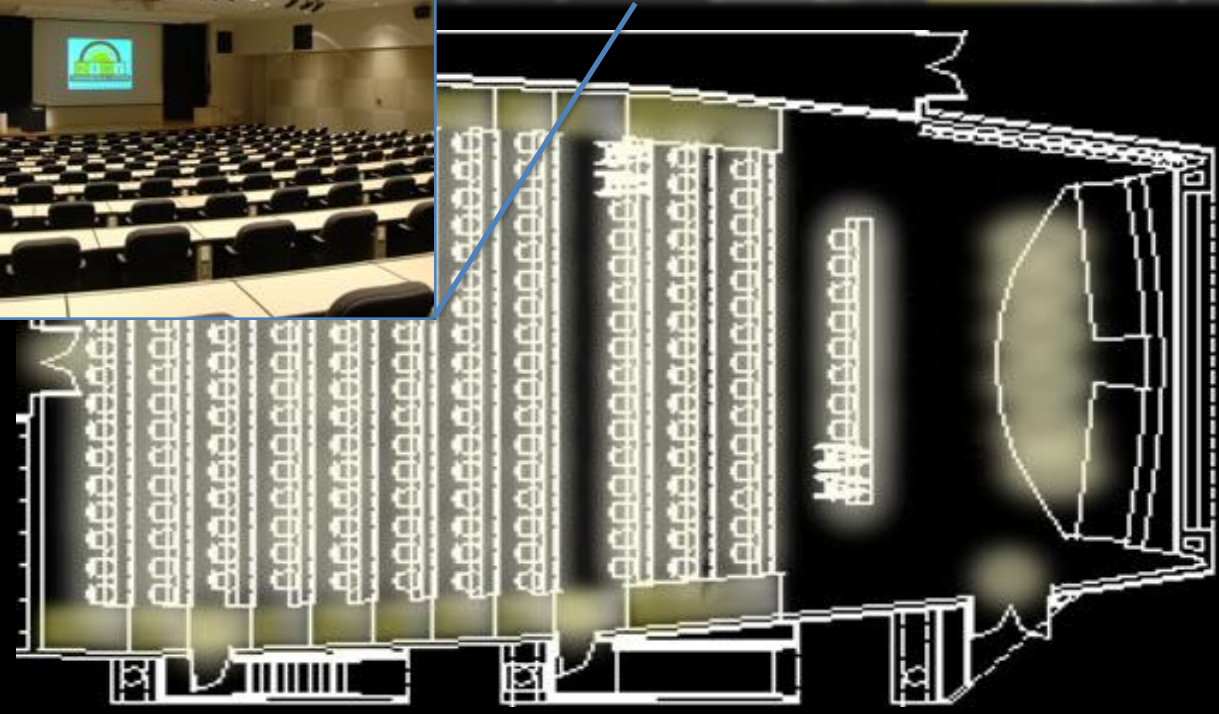
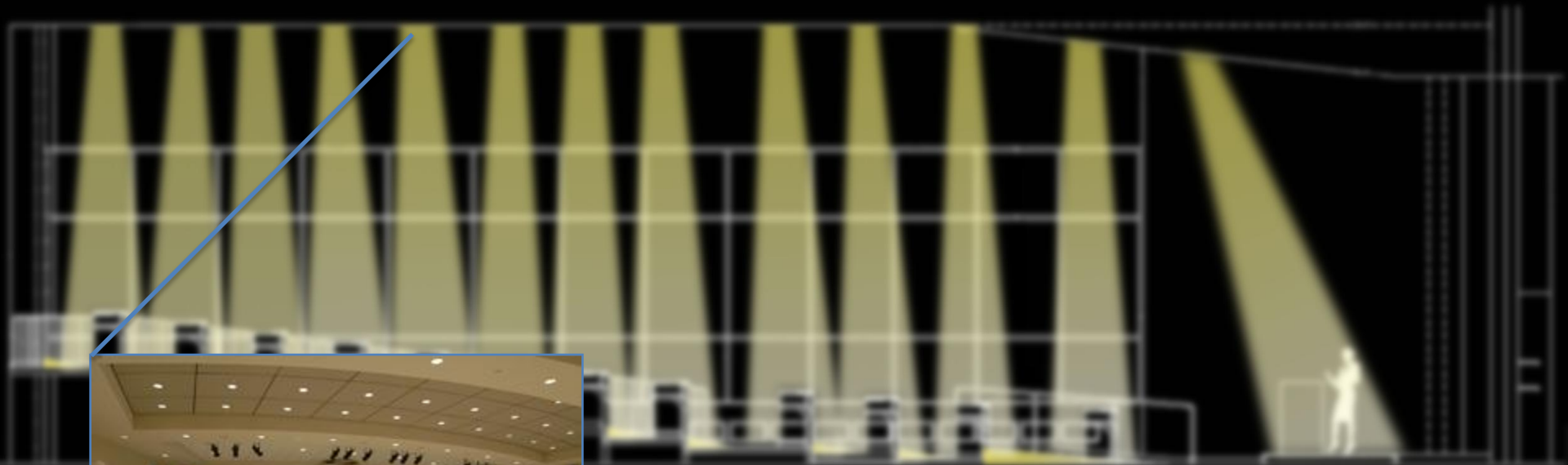
A spotlight beam of light originates from the top left, creating a soft, conical glow that tapers as it descends. At the base of this beam, a circular pool of light is cast onto a dark surface. The text "DESIGN I: POOLS OF LIGHT" is centered within this pool of light.

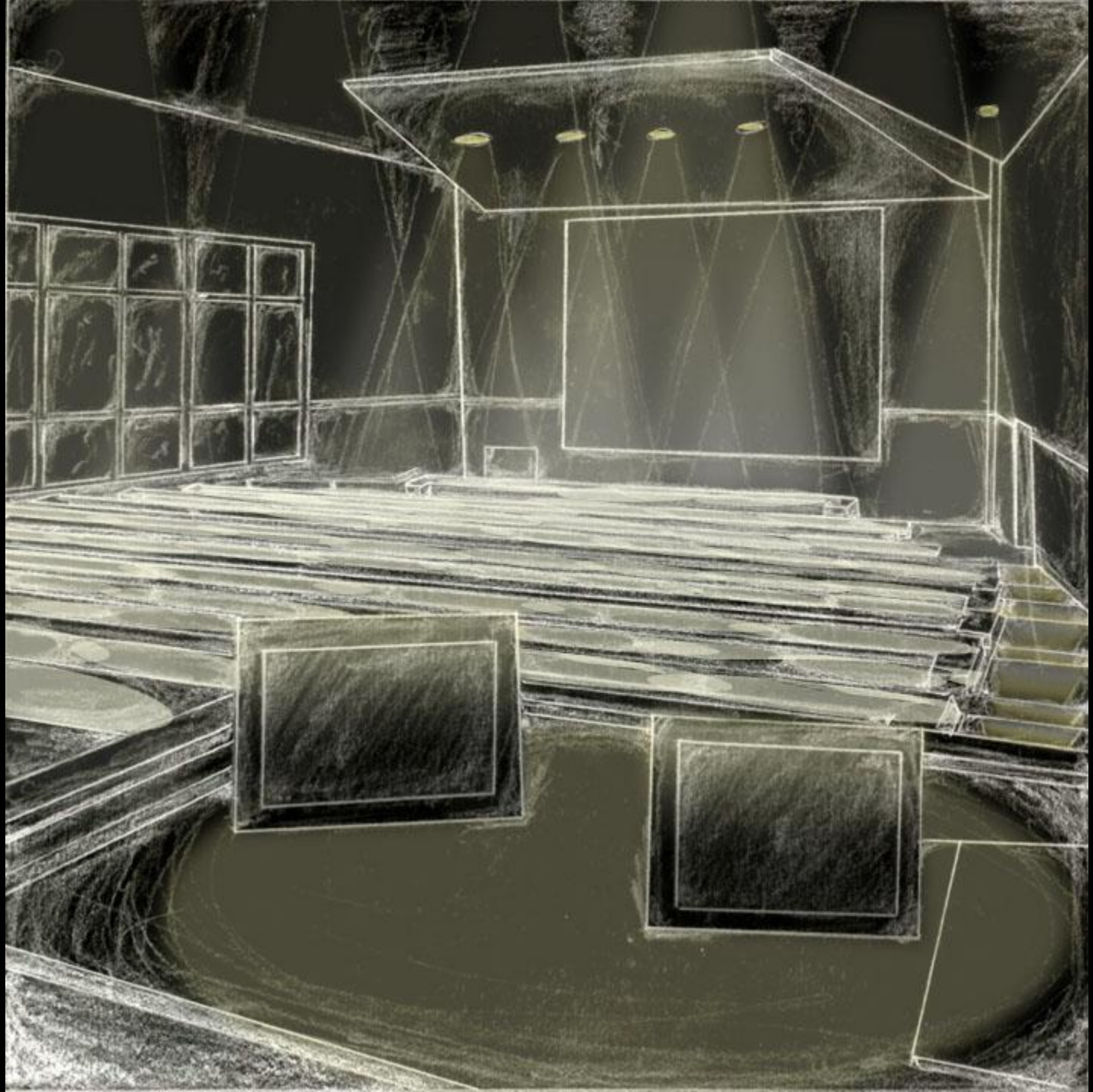
DESIGN I: POOLS OF LIGHT





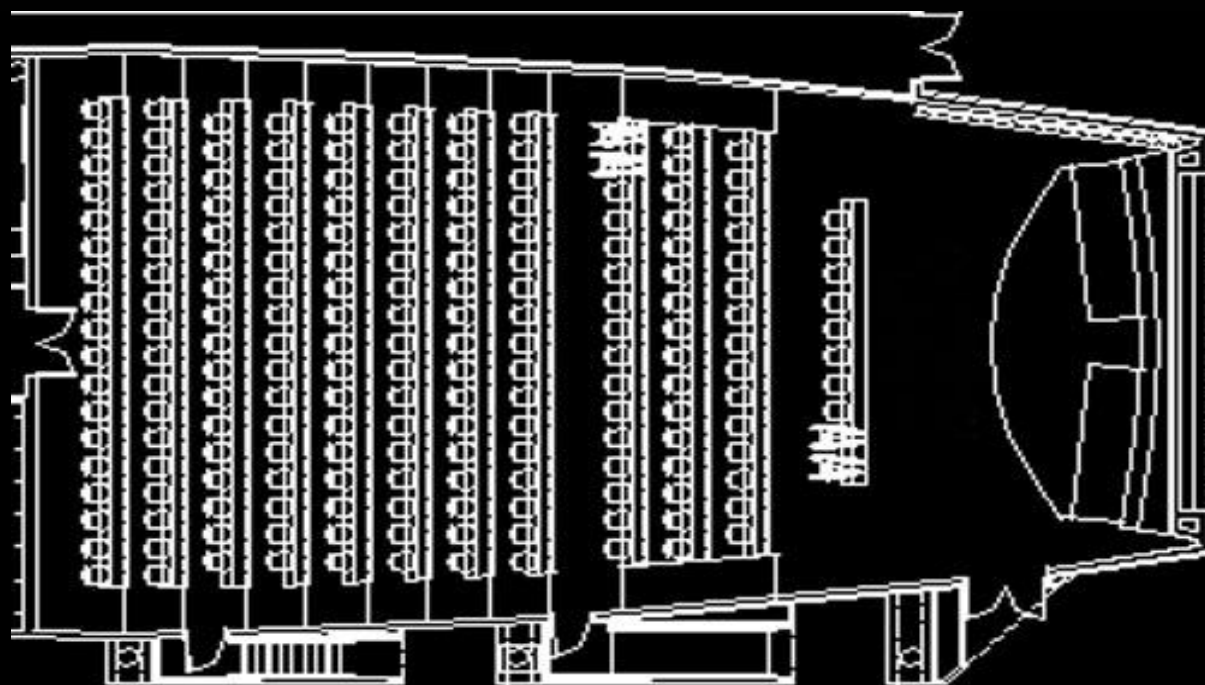
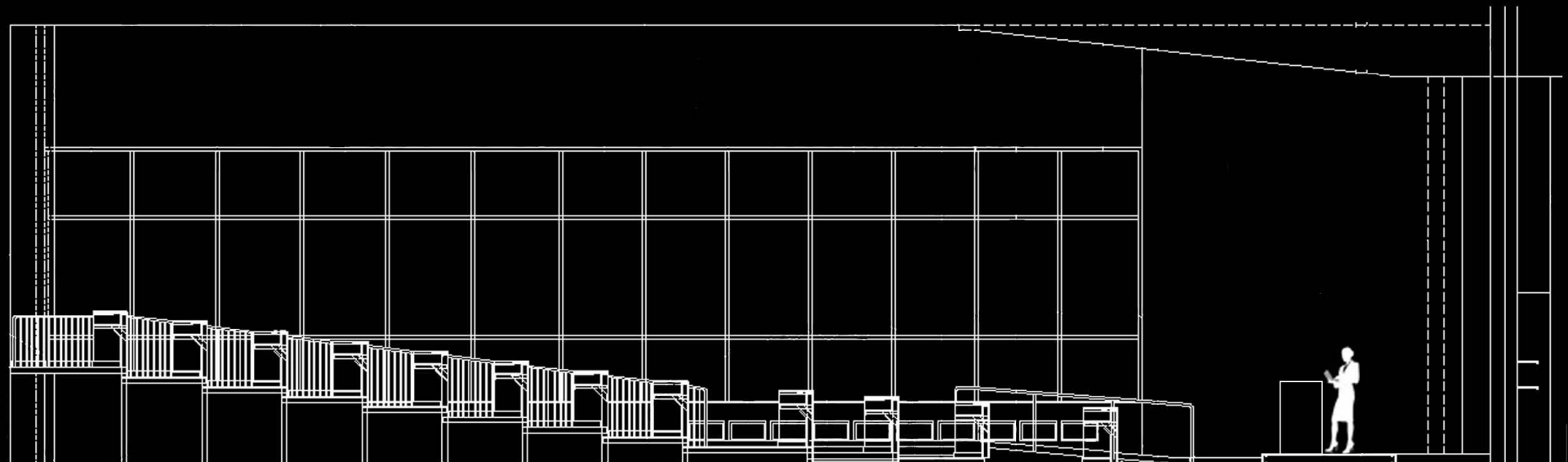


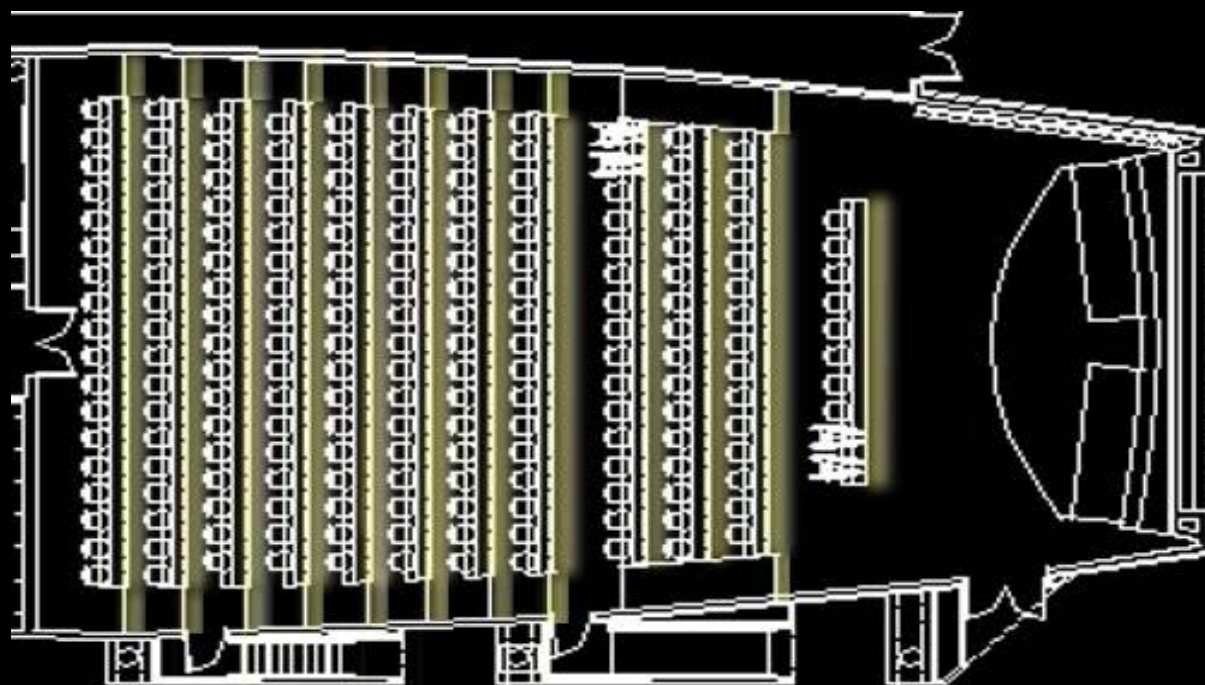
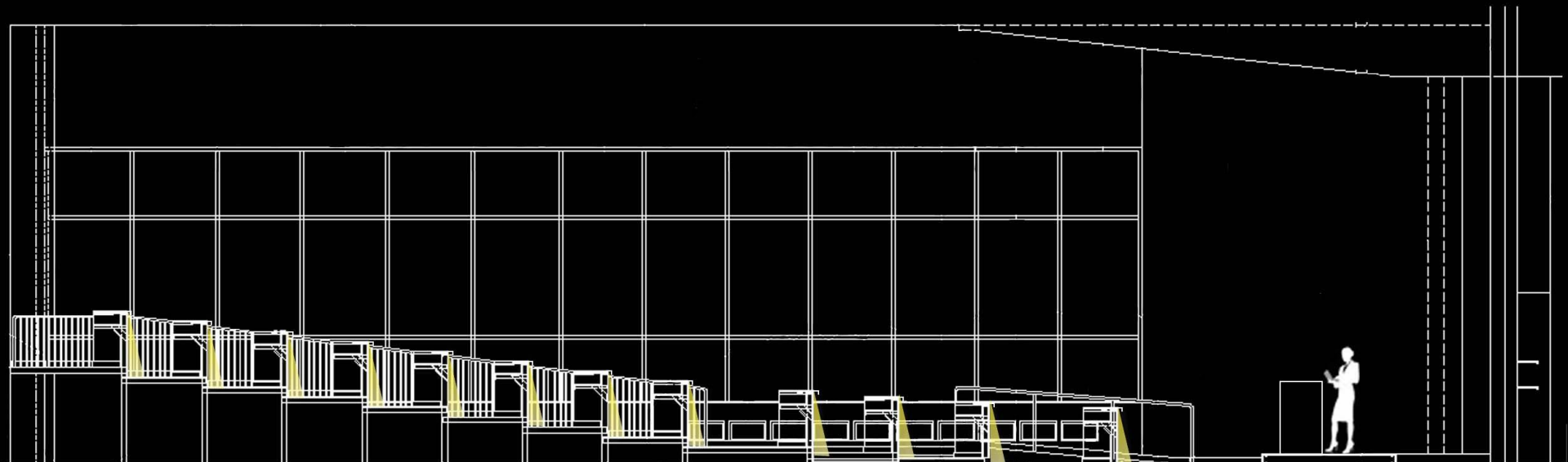


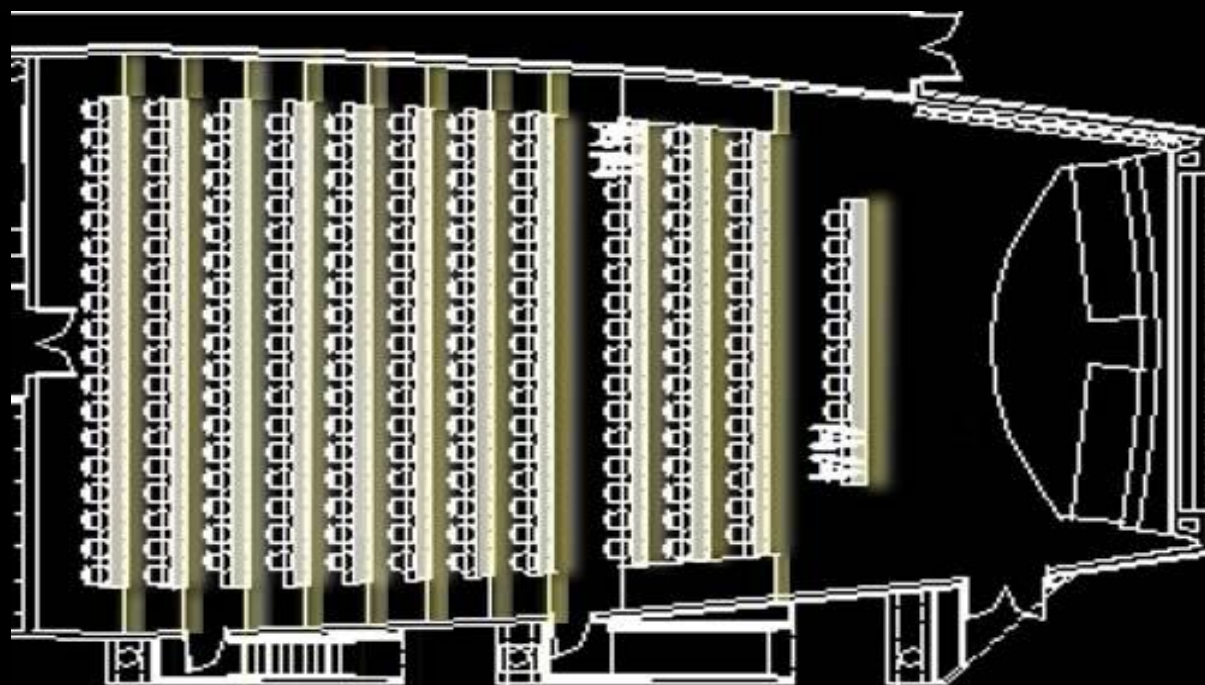
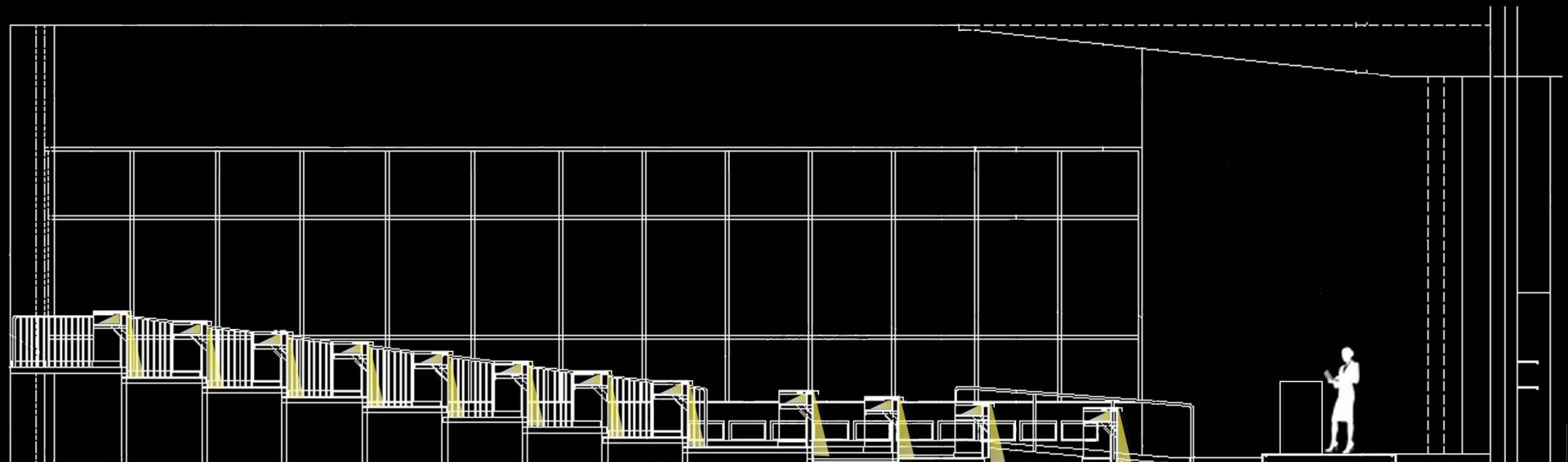


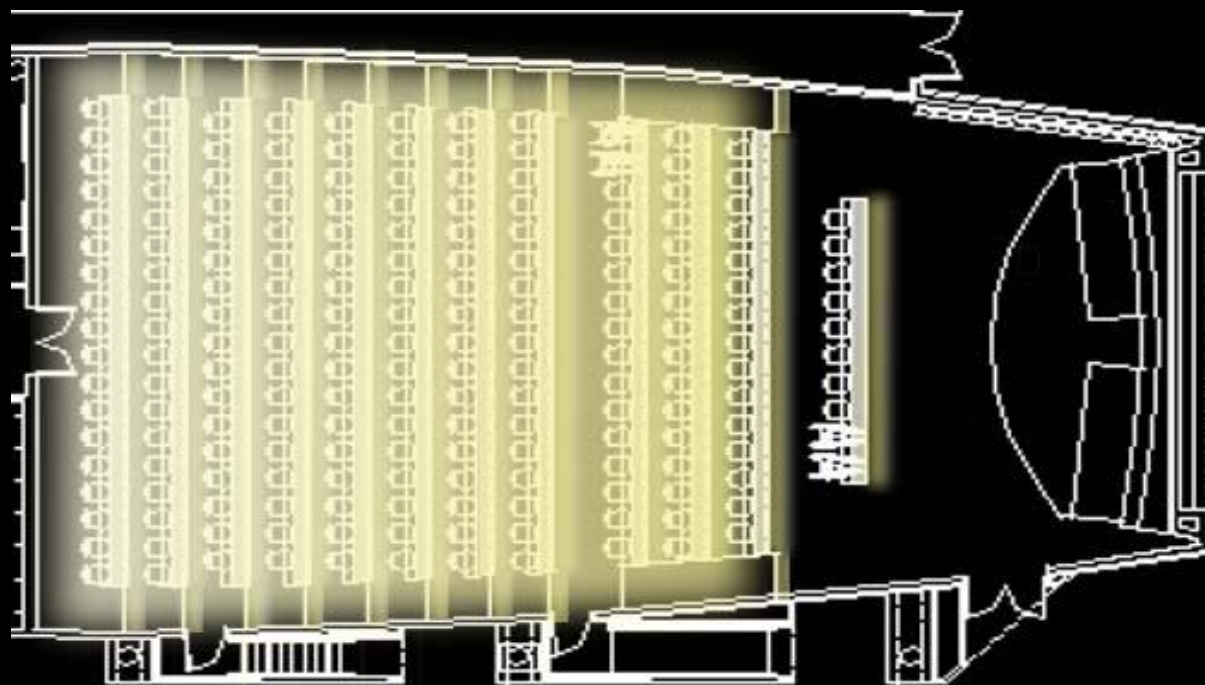
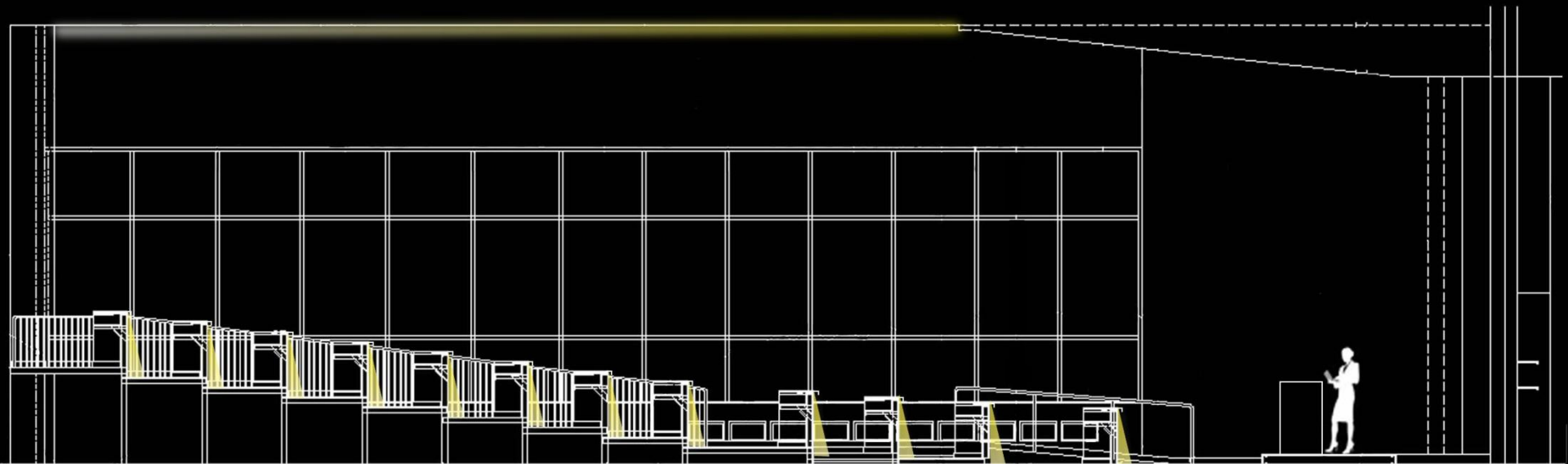
DESIGN 2: UNIFORM FLOW

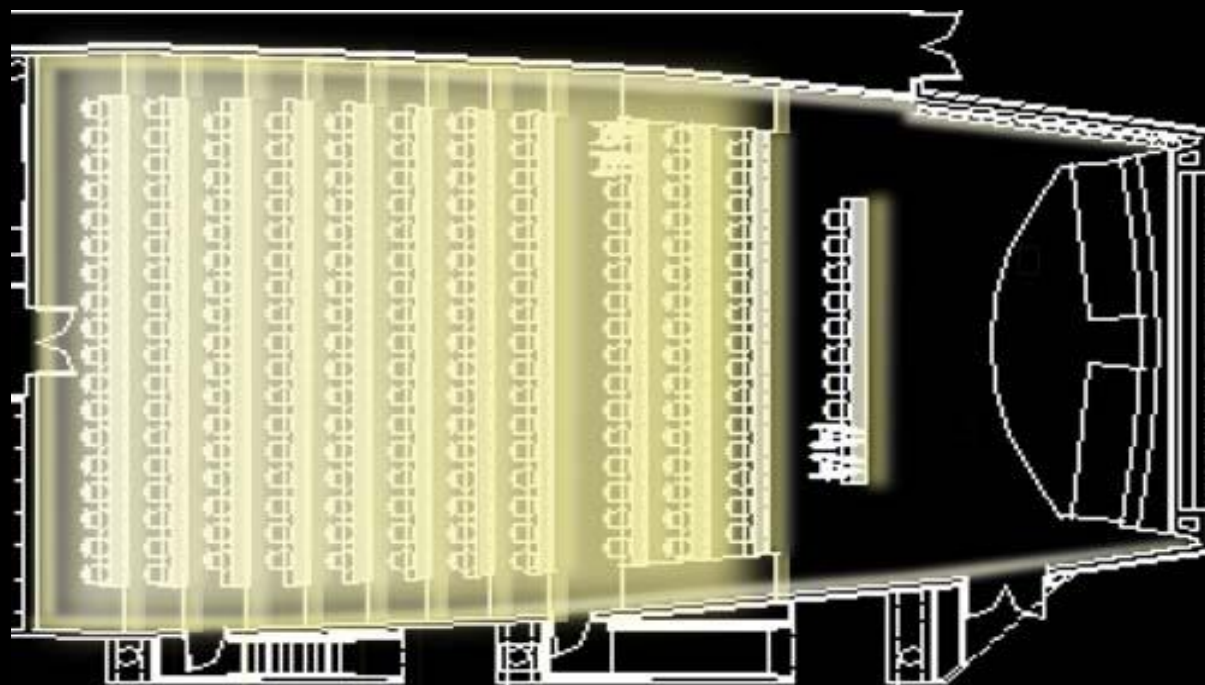
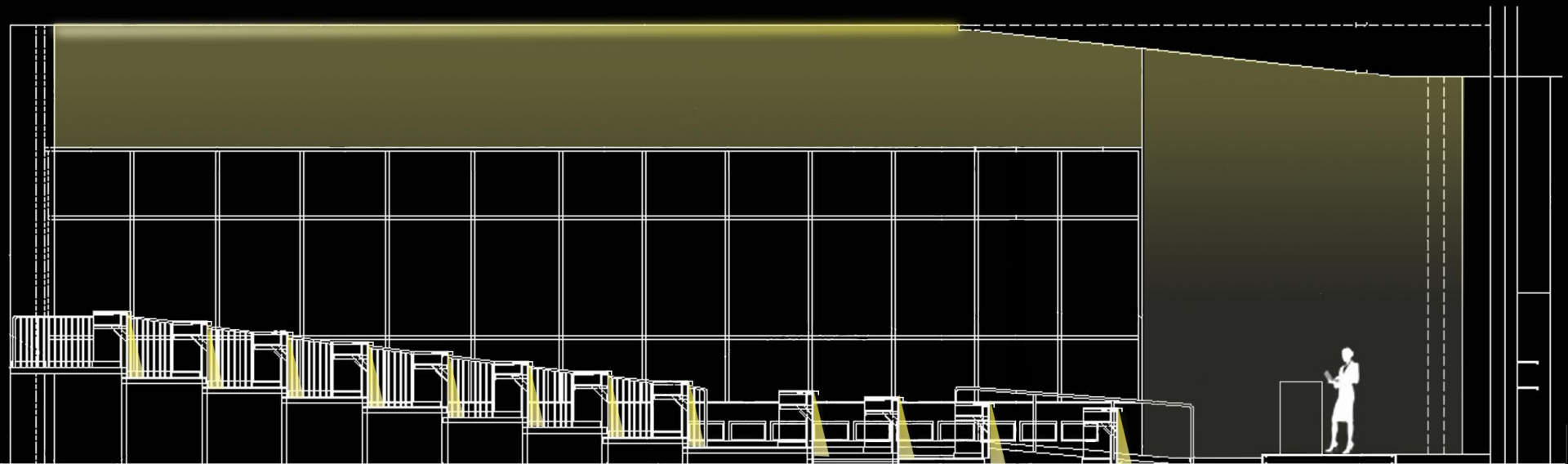


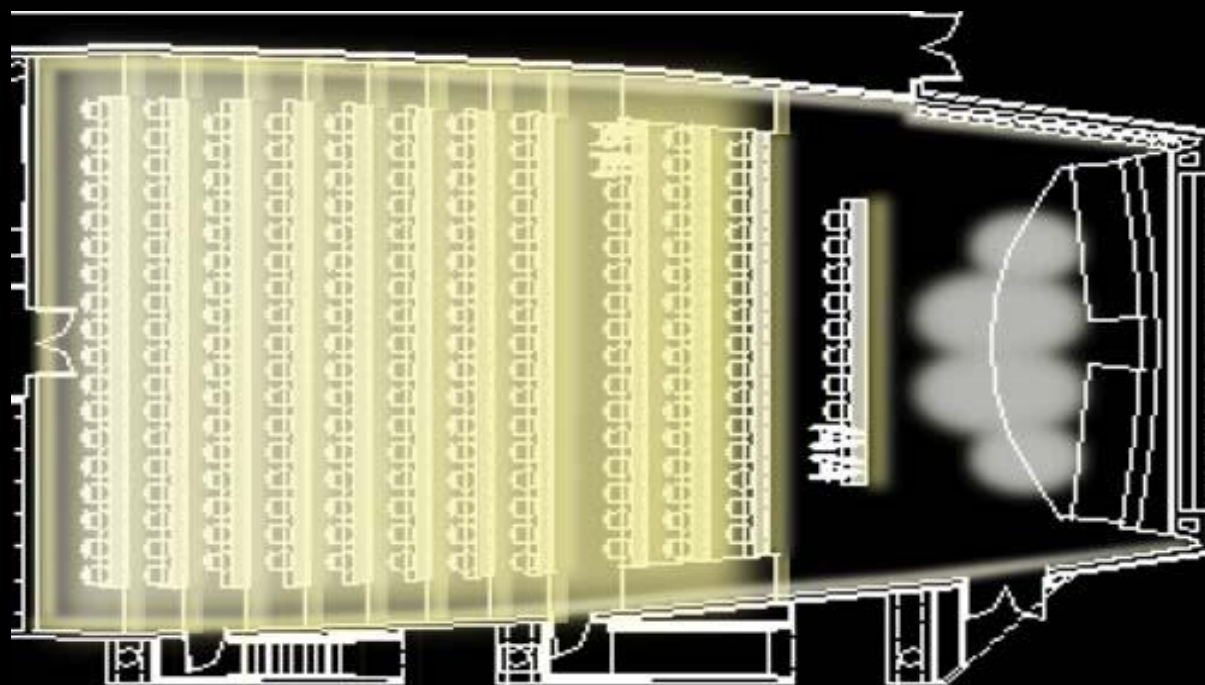
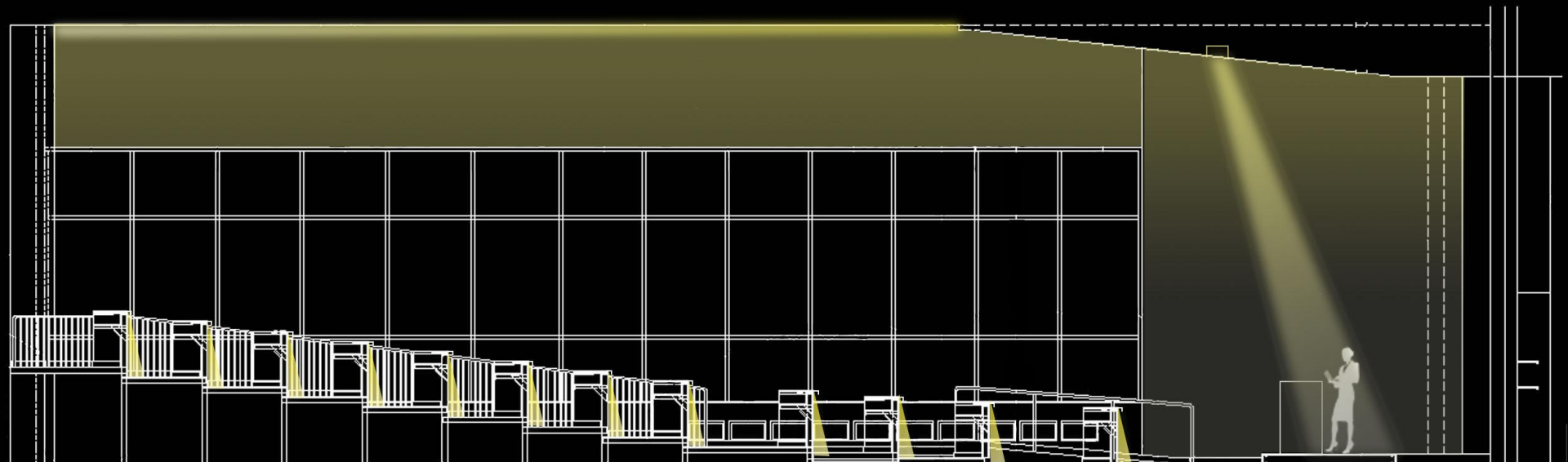


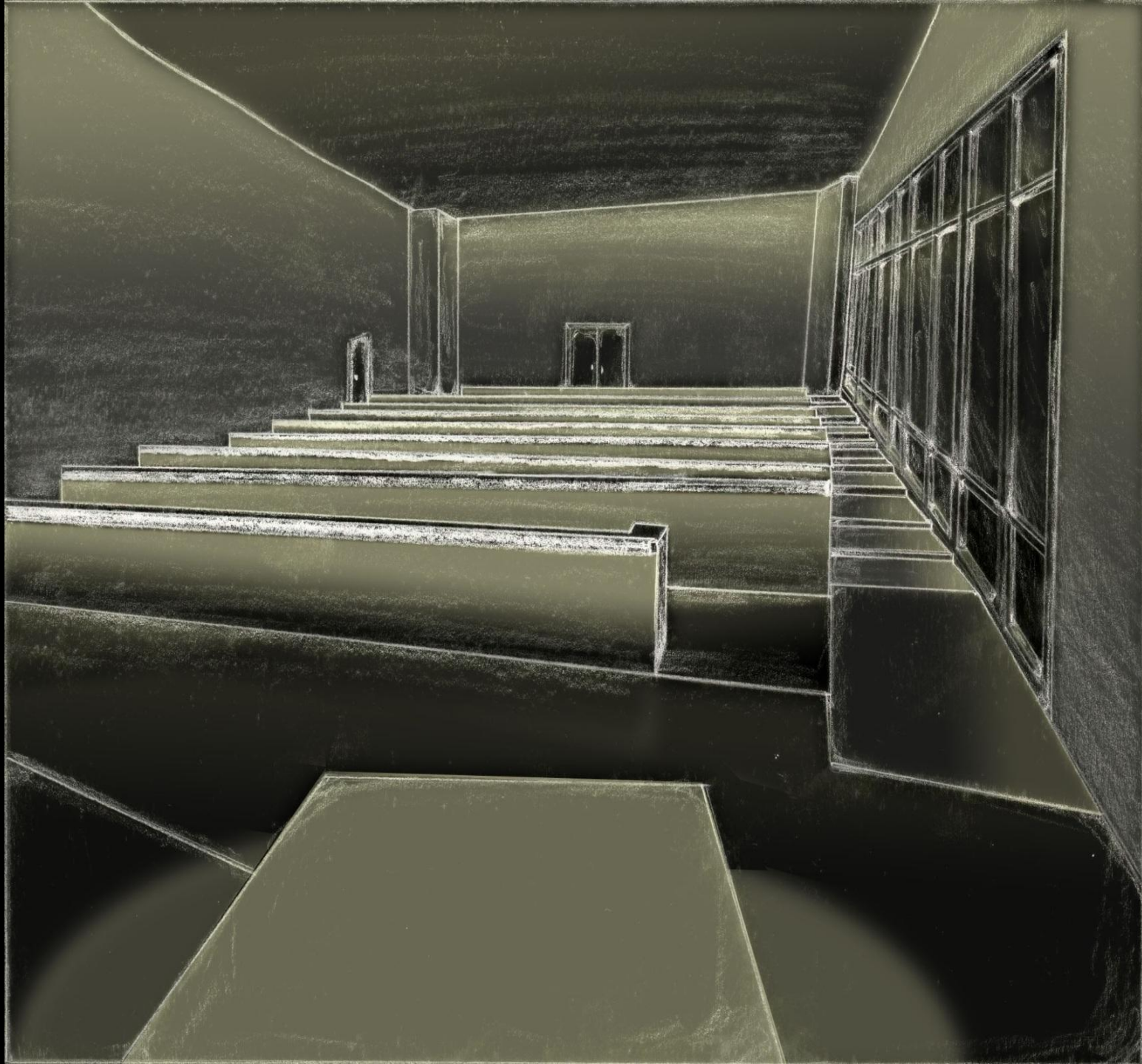




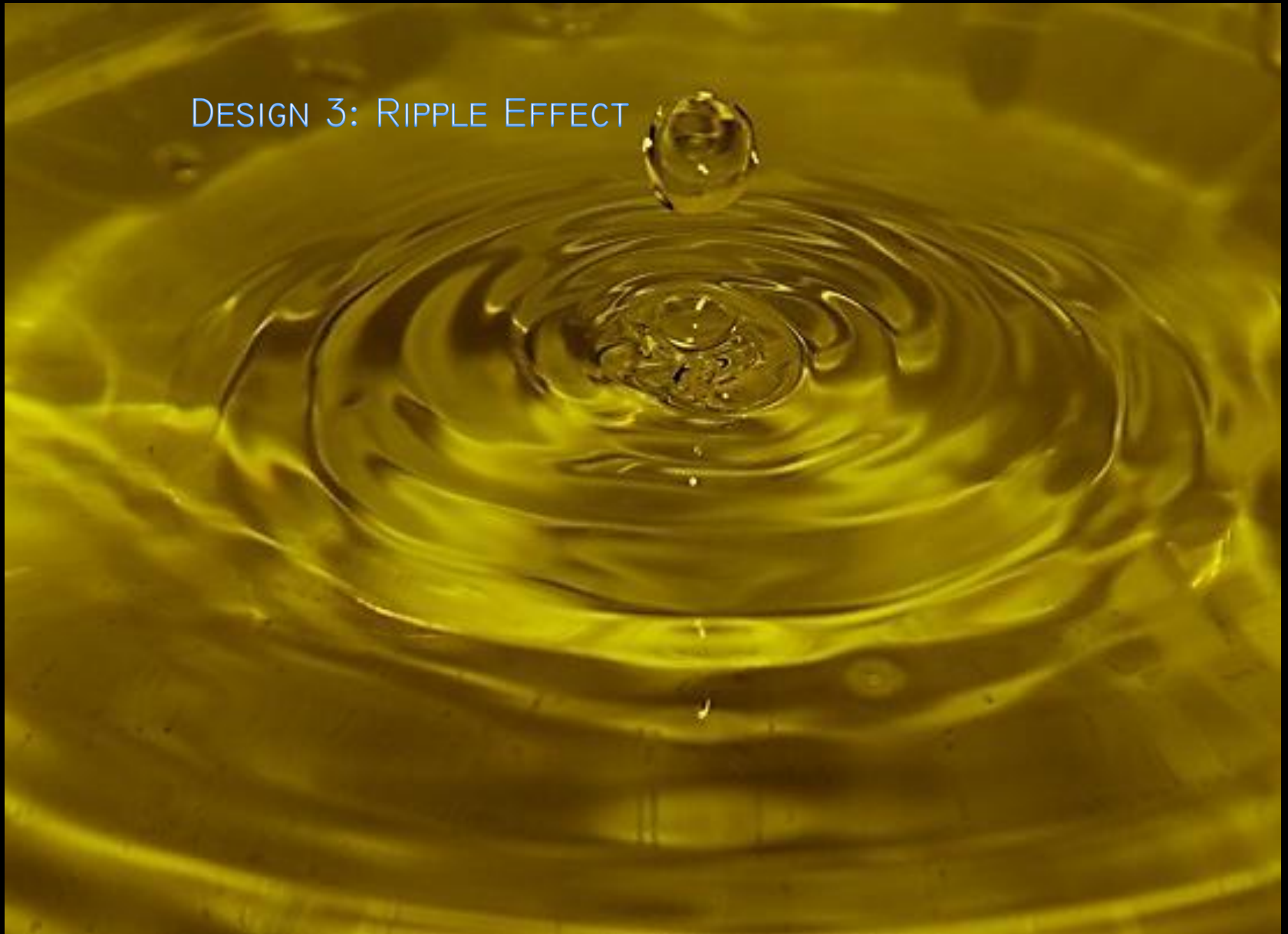


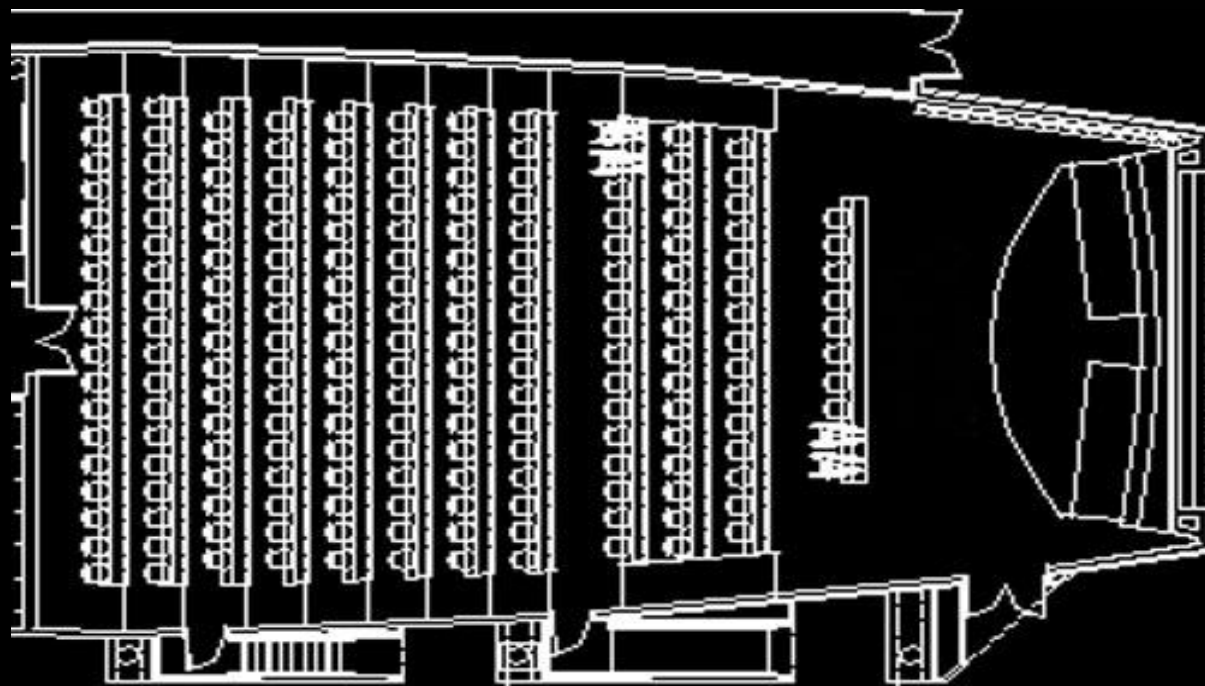
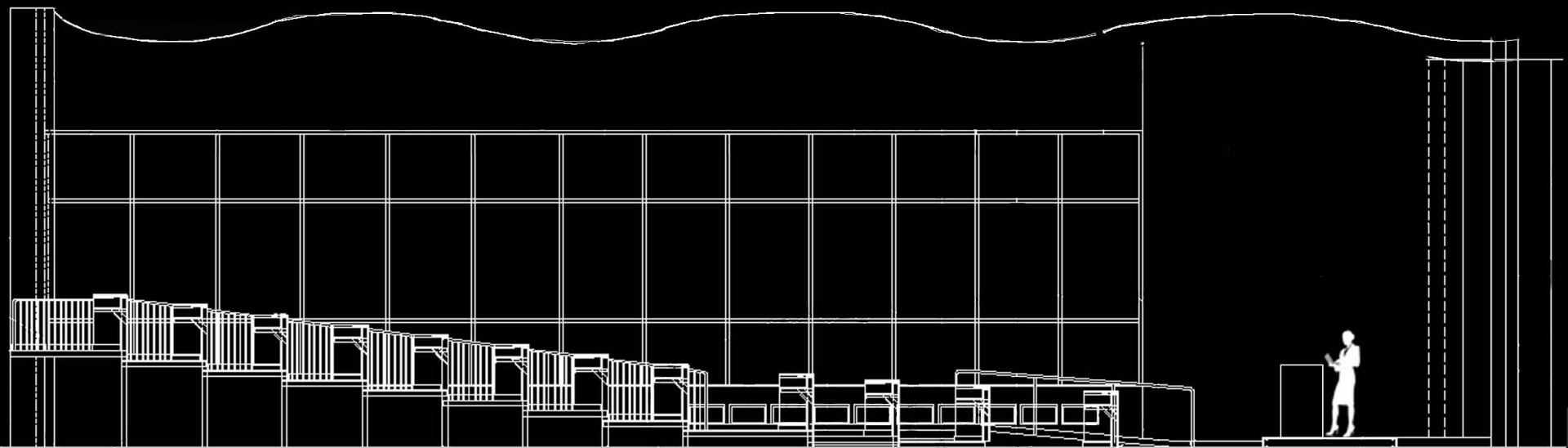


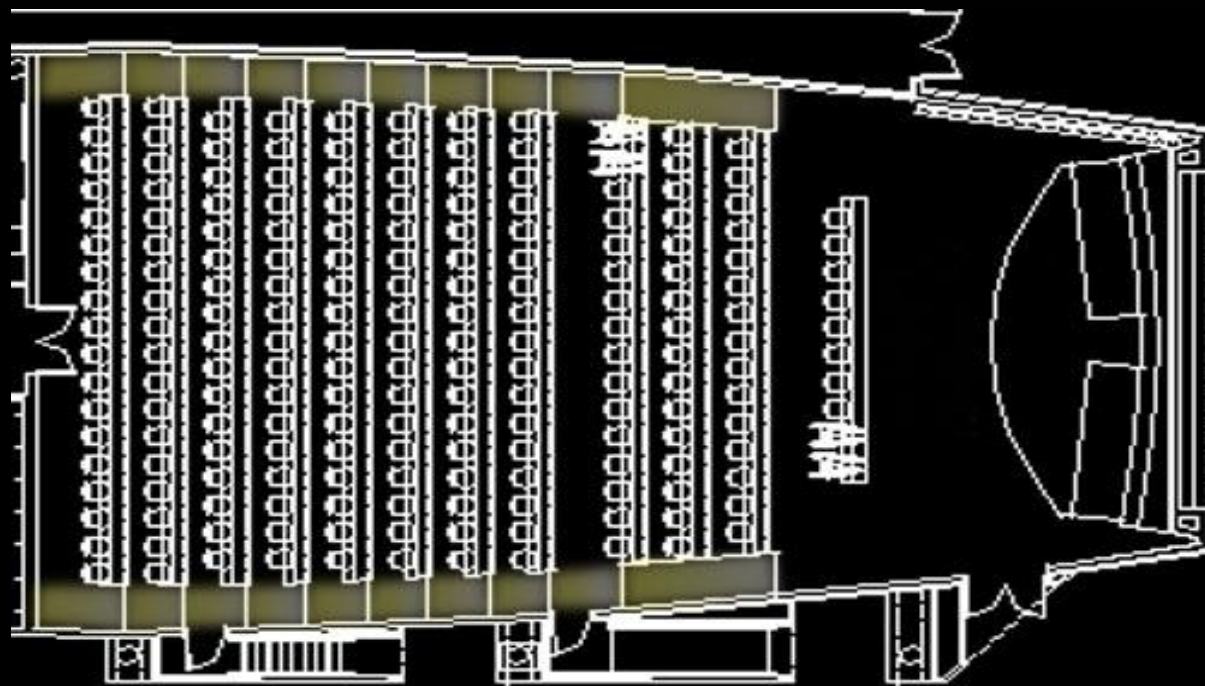
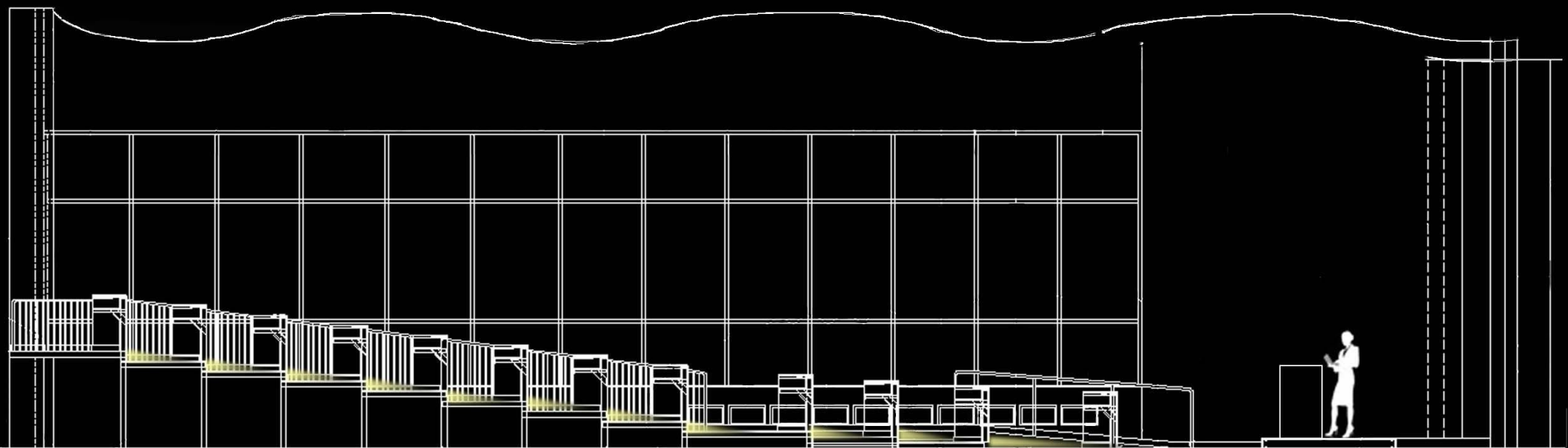


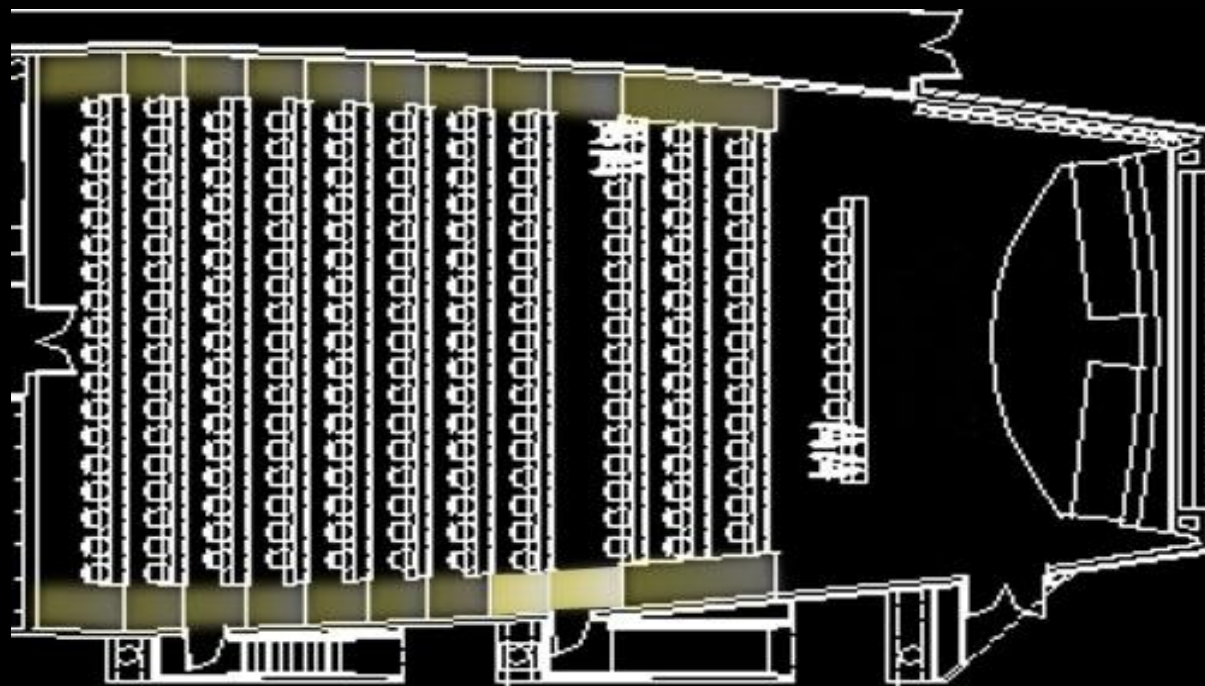
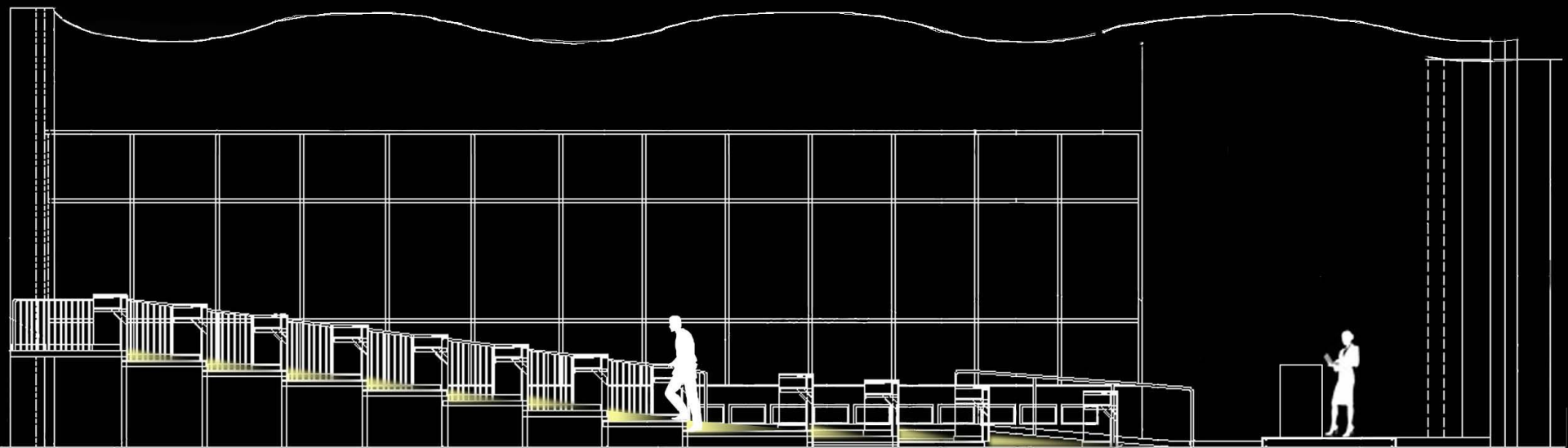


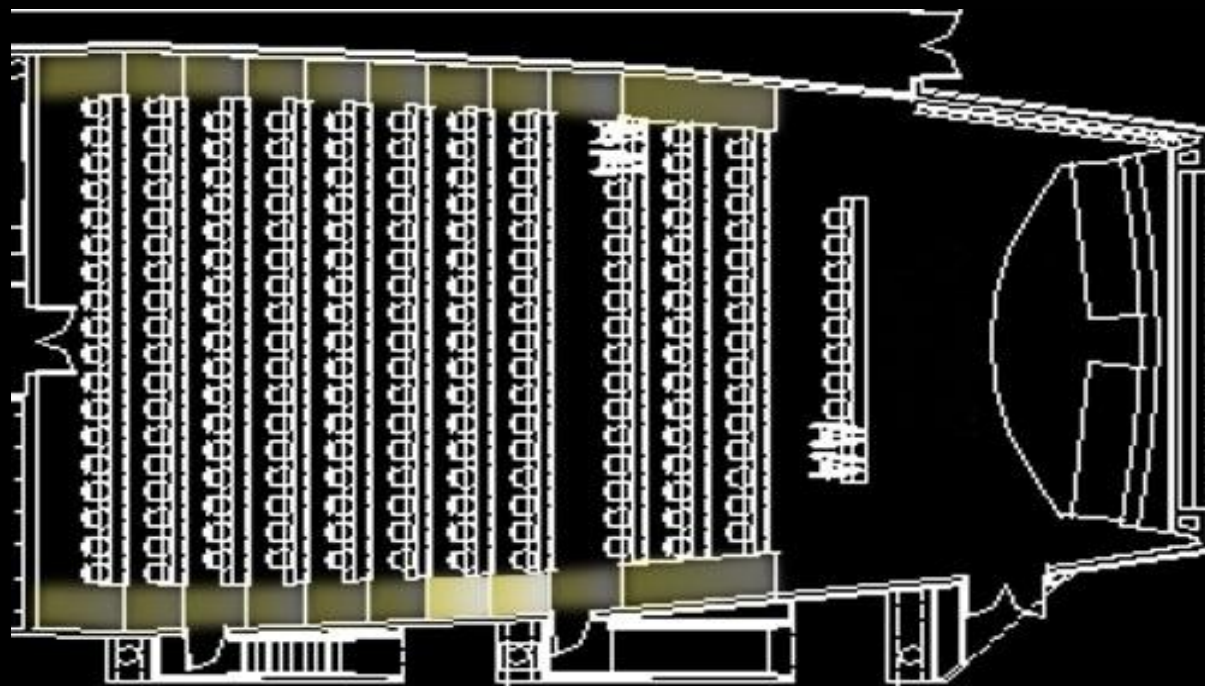
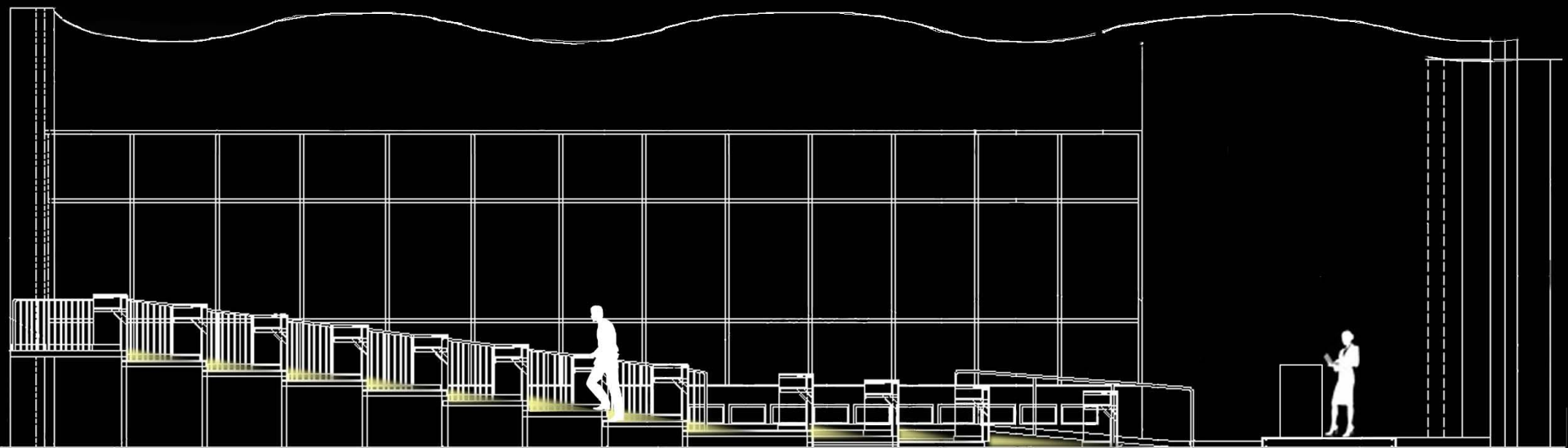
DESIGN 3: RIPPLE EFFECT

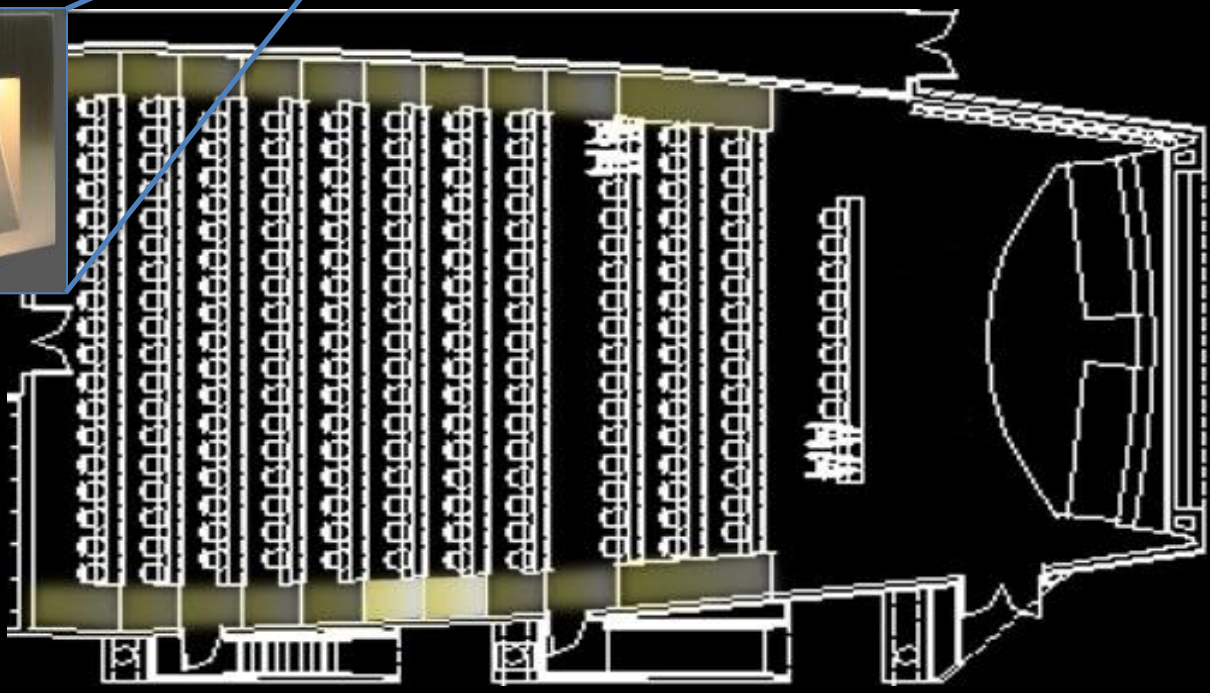
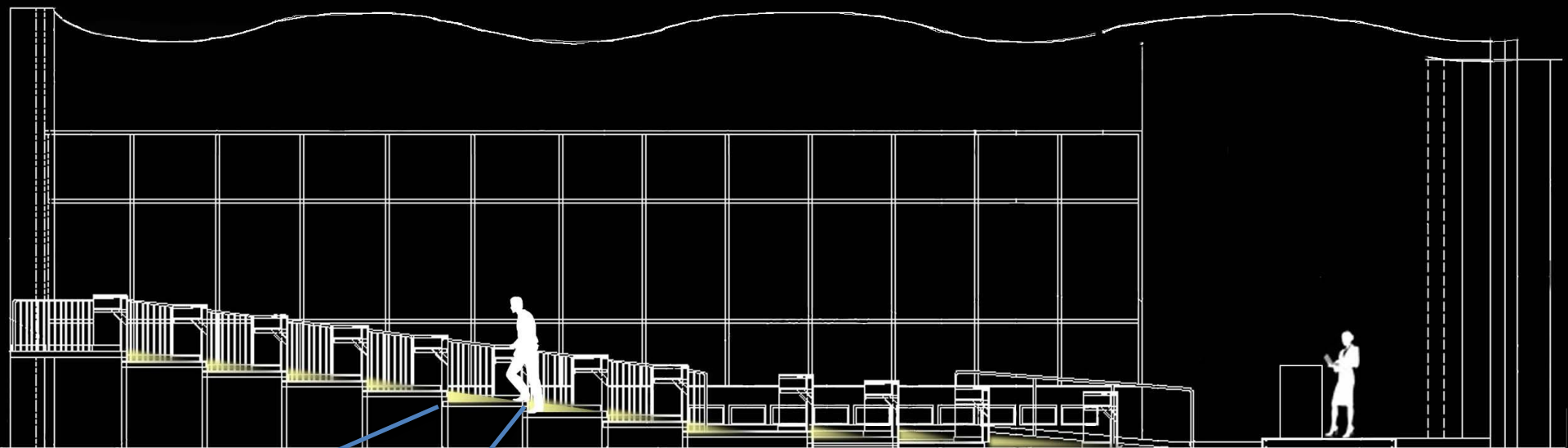


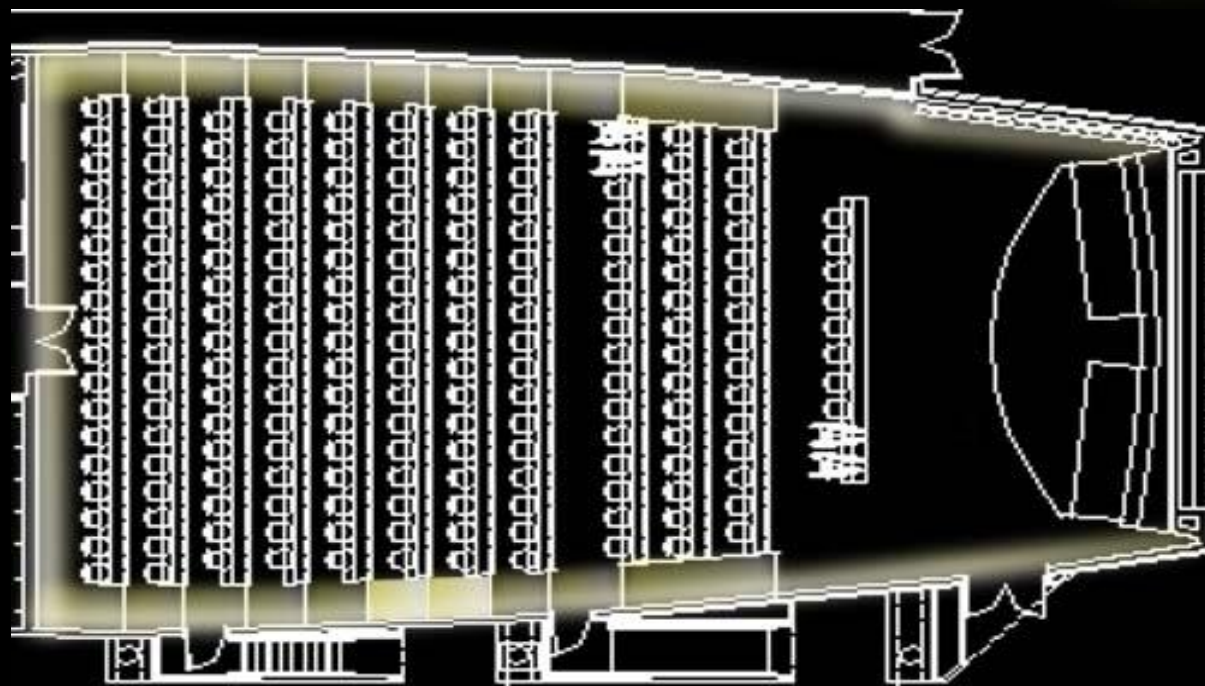
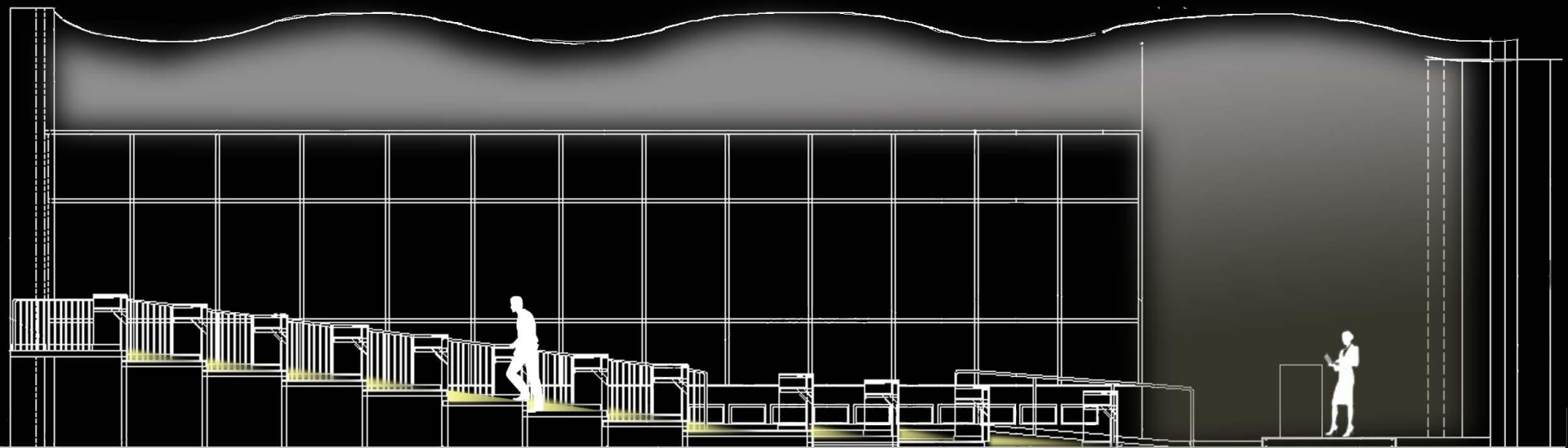


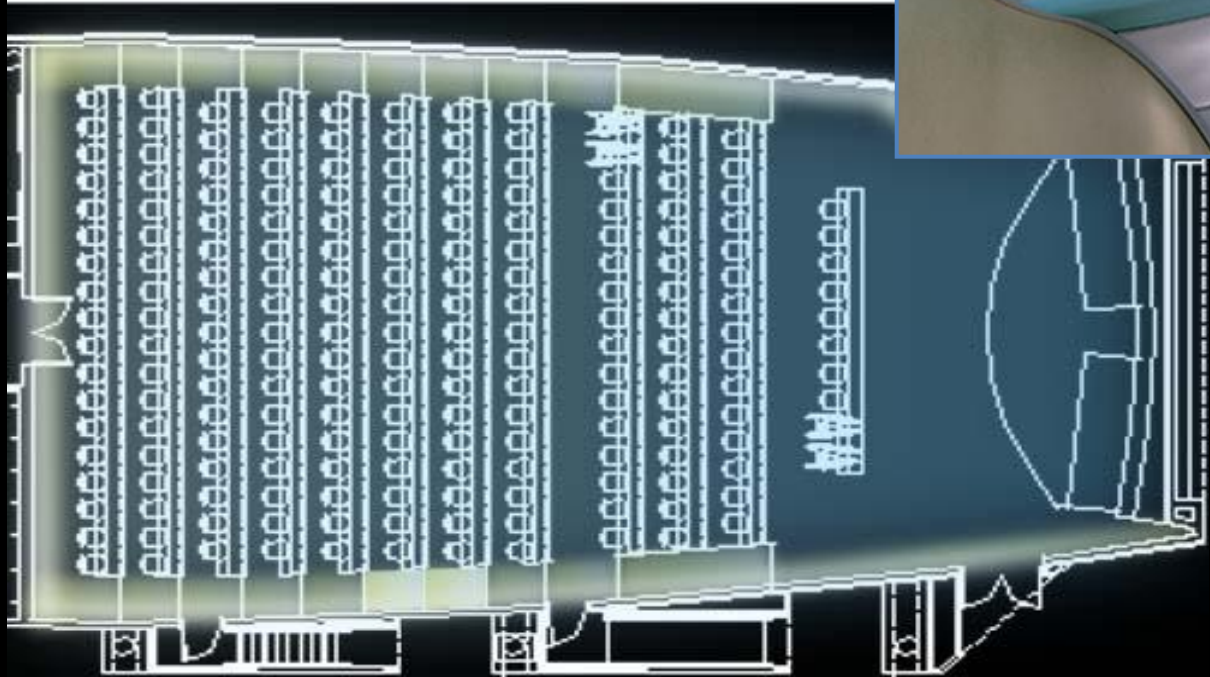
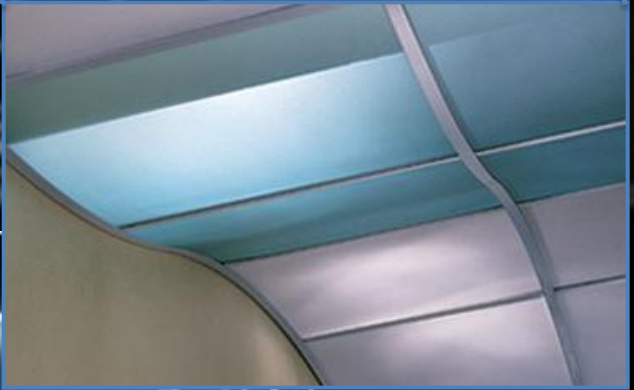
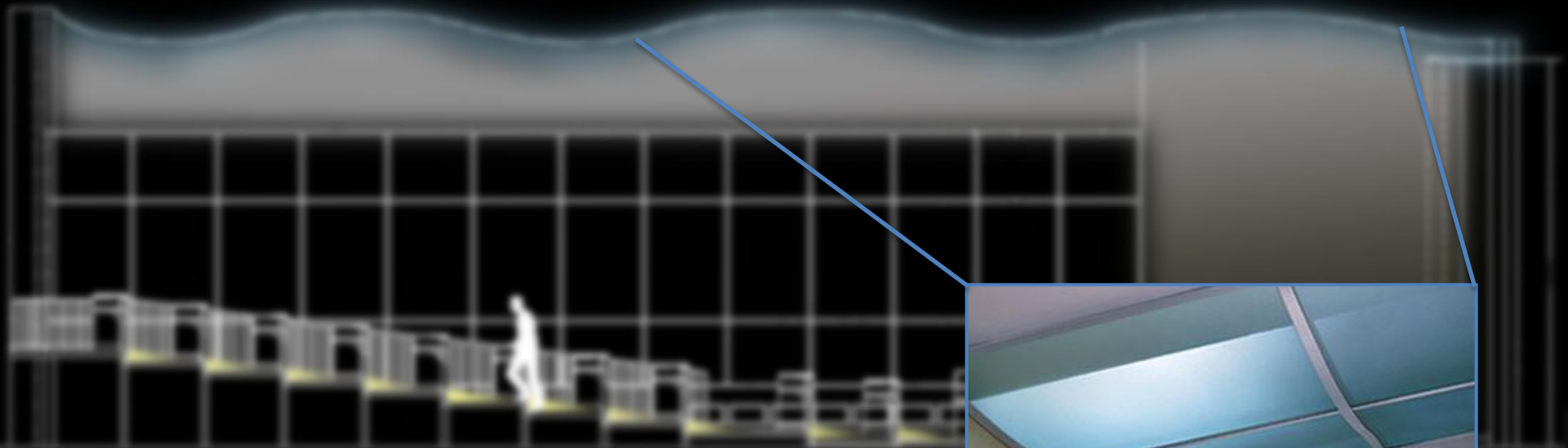


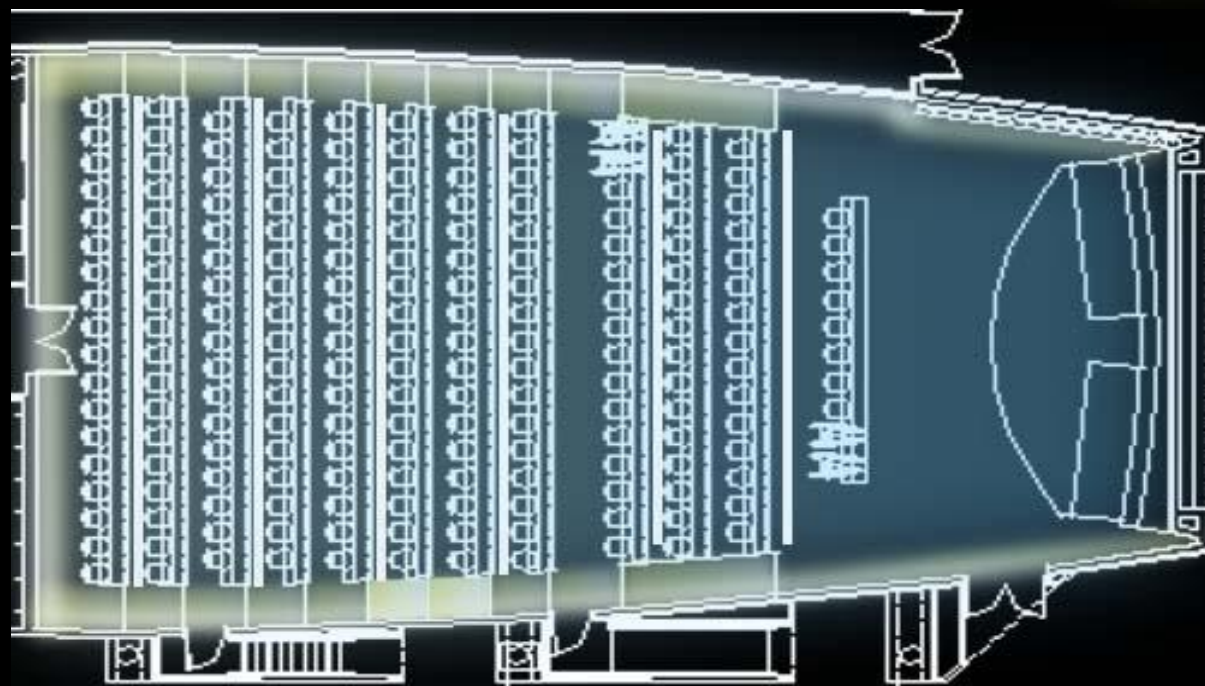
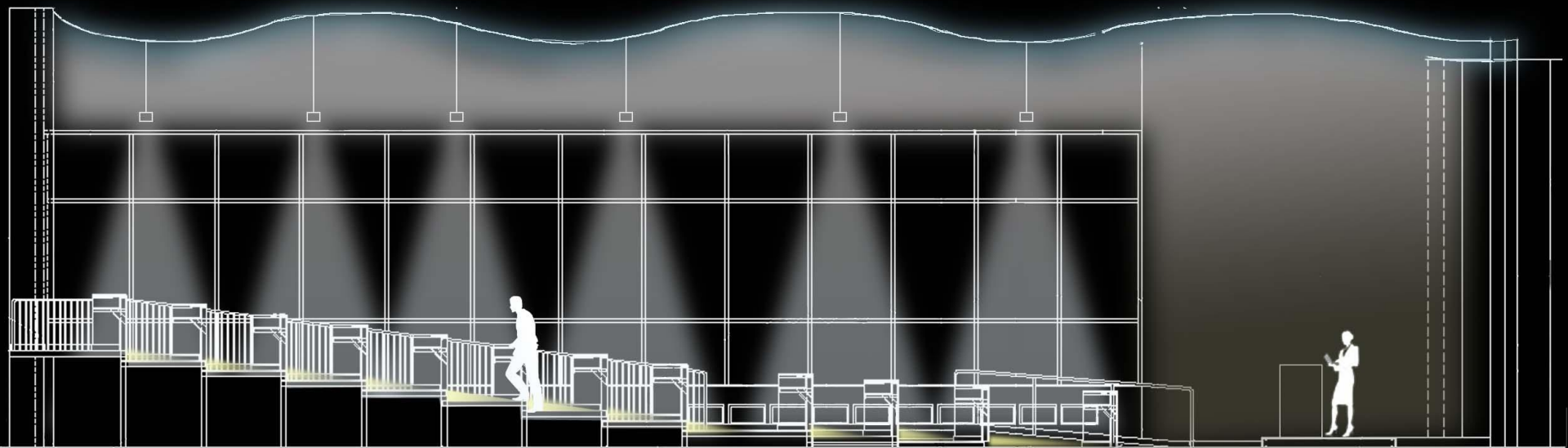


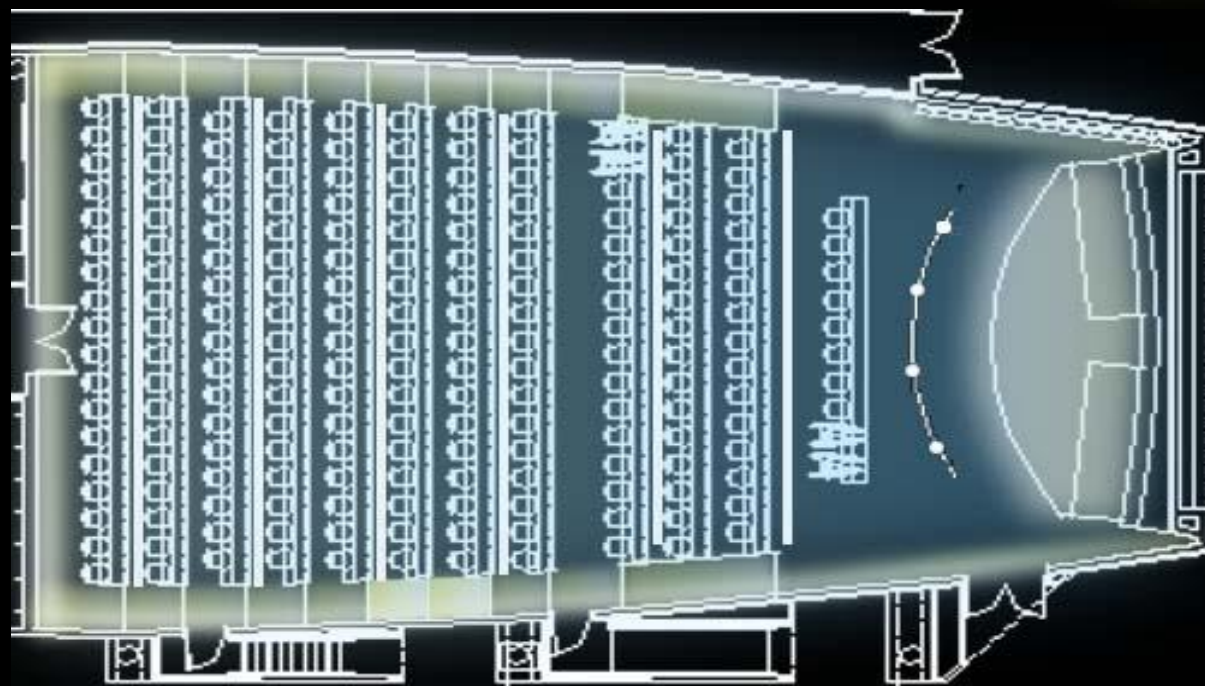
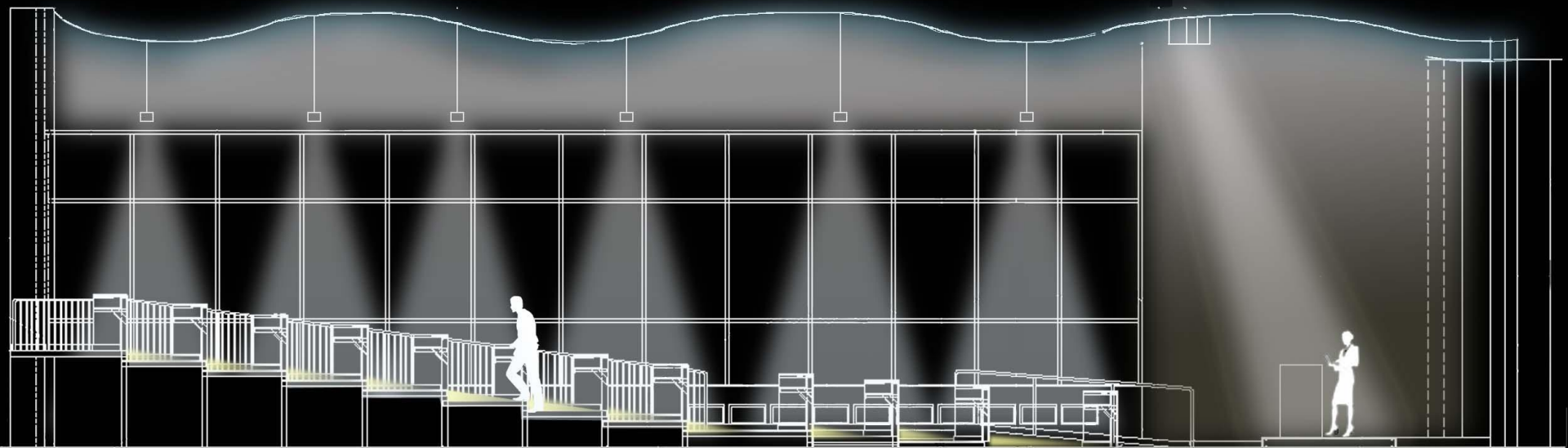








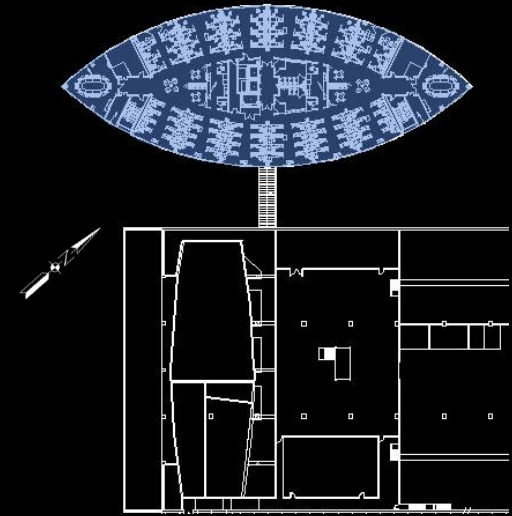






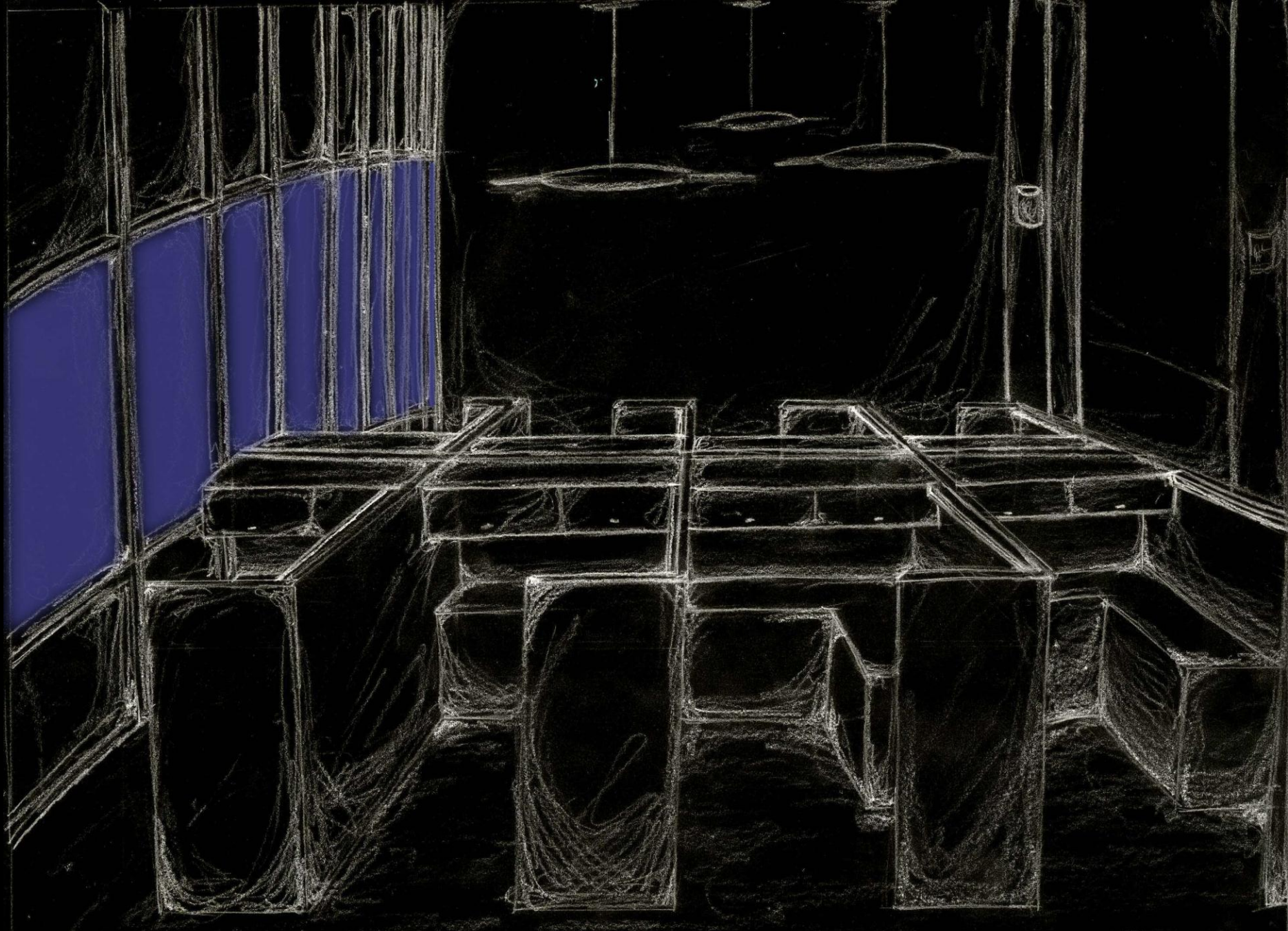
WORK SPACE | OPEN OFFICE

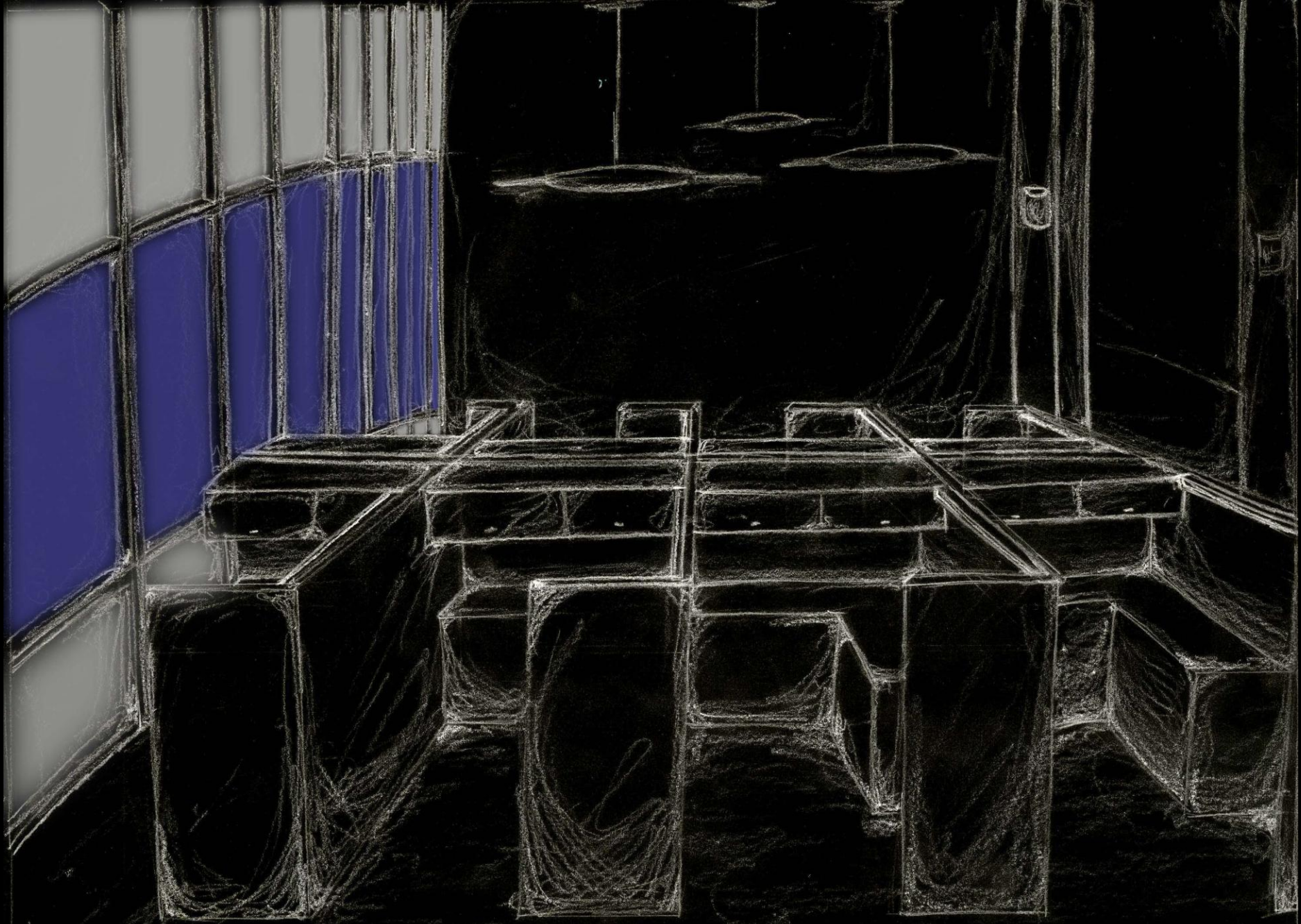
WORK SPACE | OPEN OFFICE

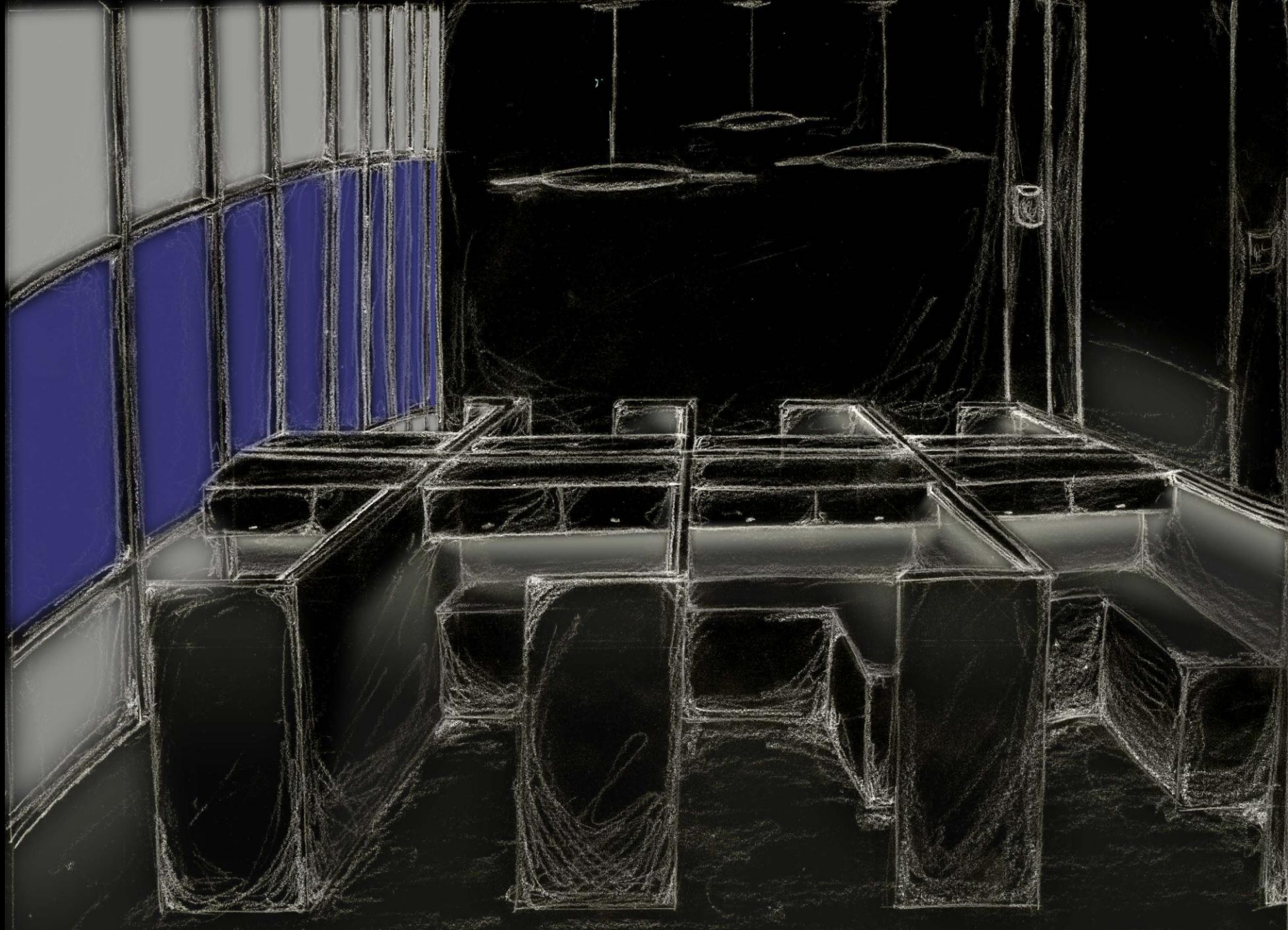


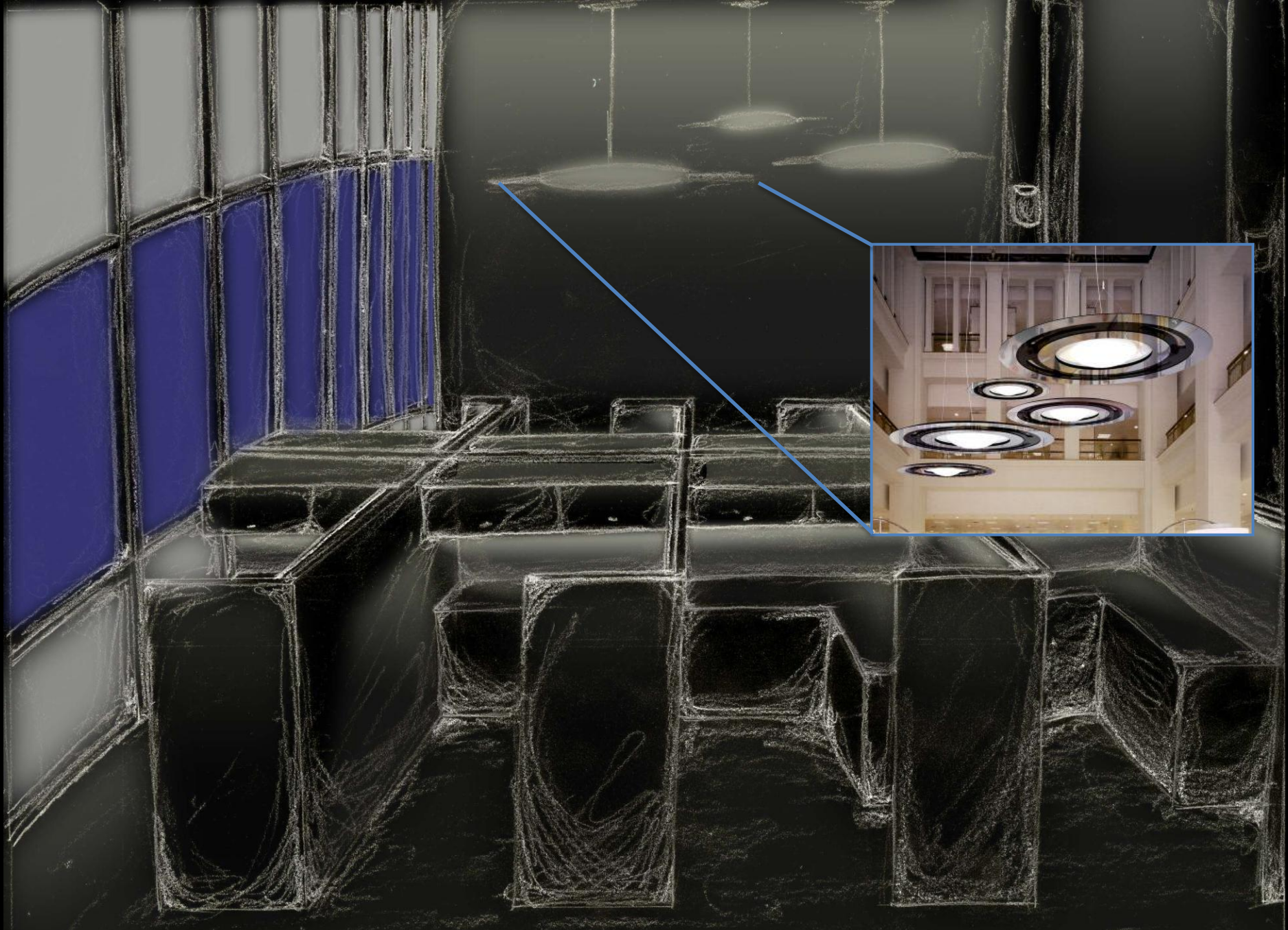
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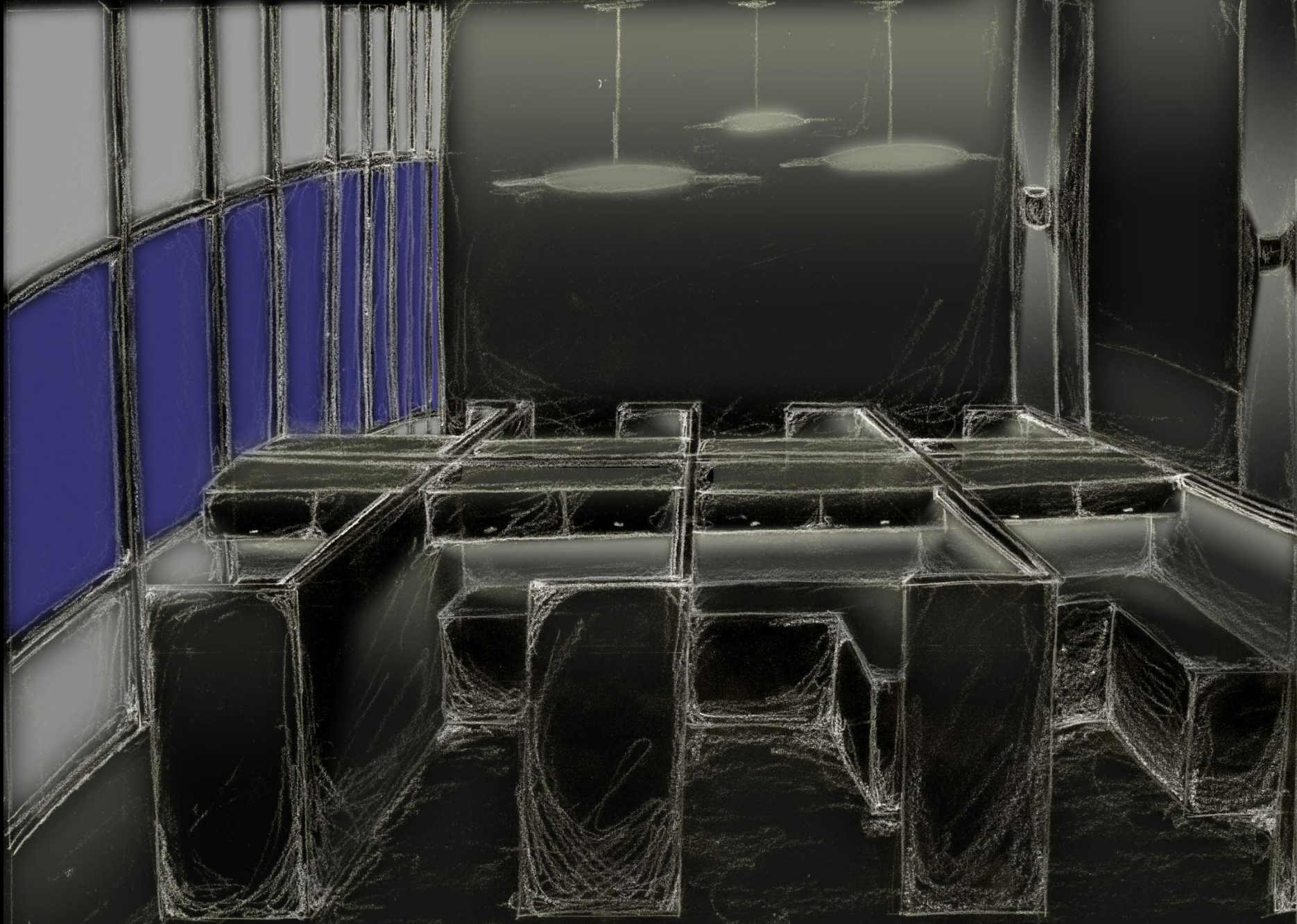
- TASK/AMBIENT
- DIRECT GLARE
- REFLECTED GLARE
- VERTICAL ILLUMINANCE
- SOURCE/TASK/EYE GEOMETRY







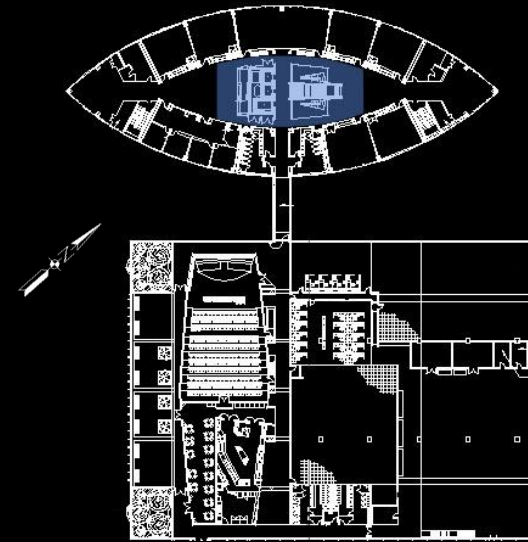






CIRCULATION | LOBBY/ATRIUM

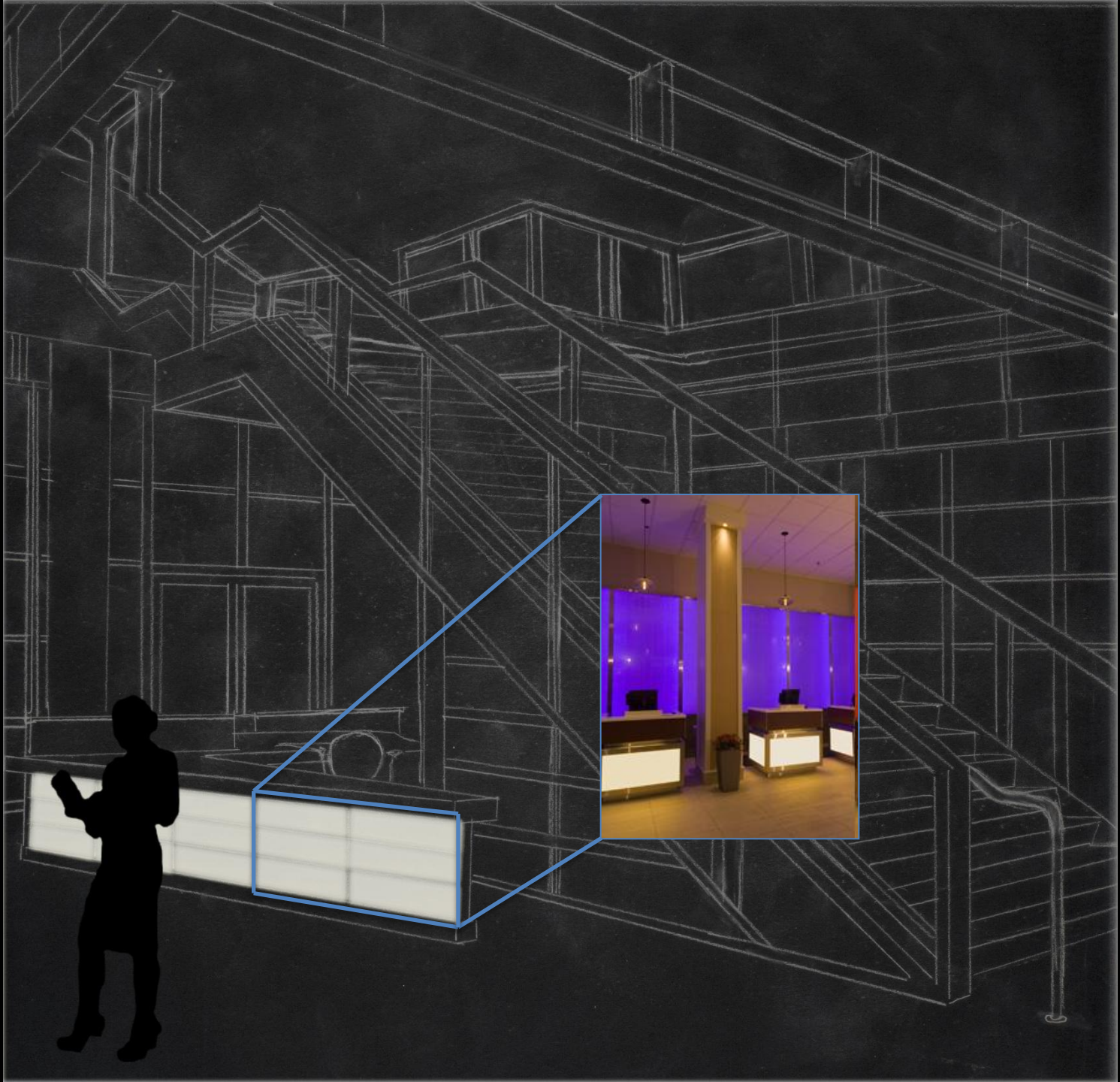
CIRCULATION | LOBBY ATRIUM

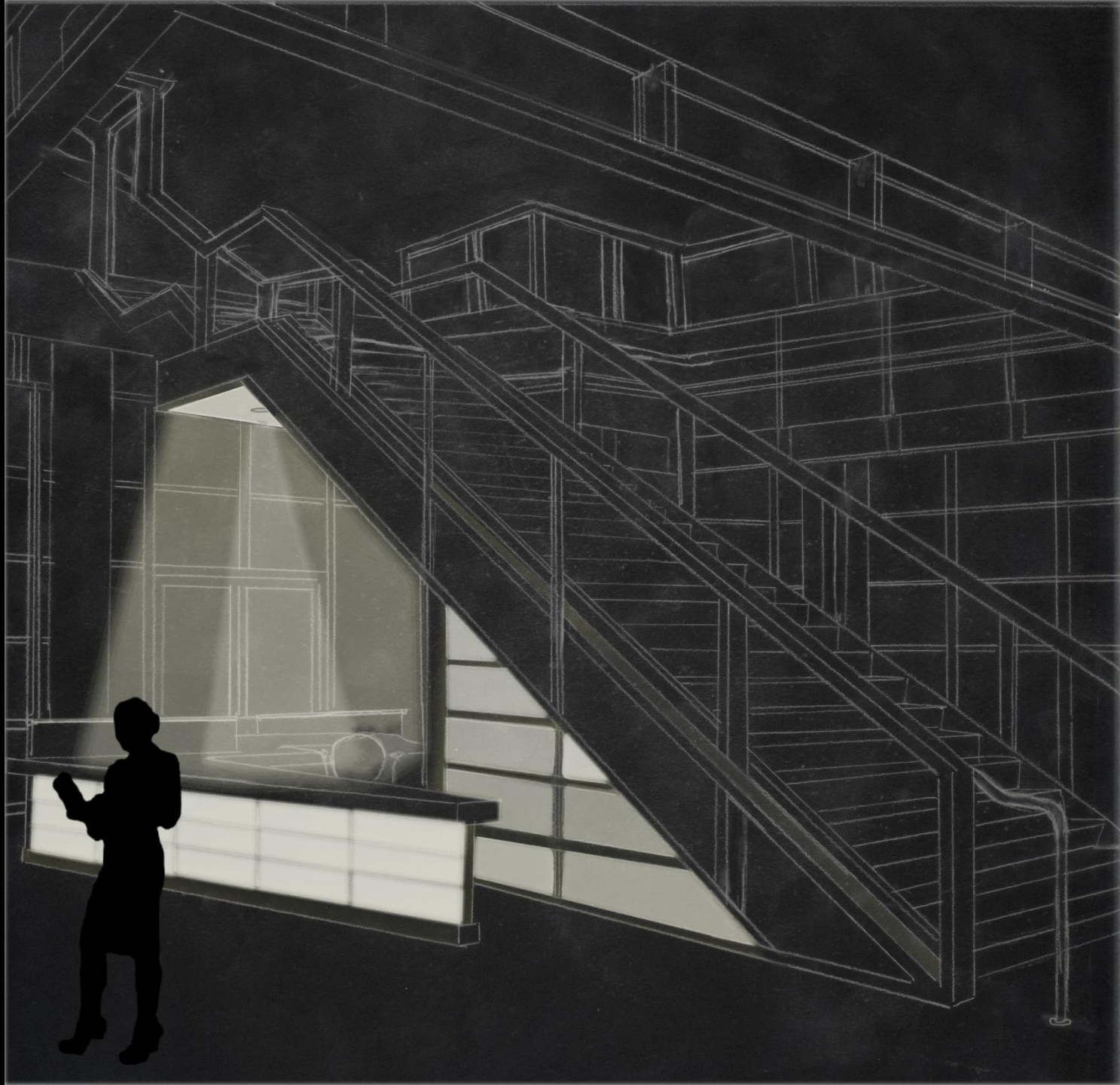


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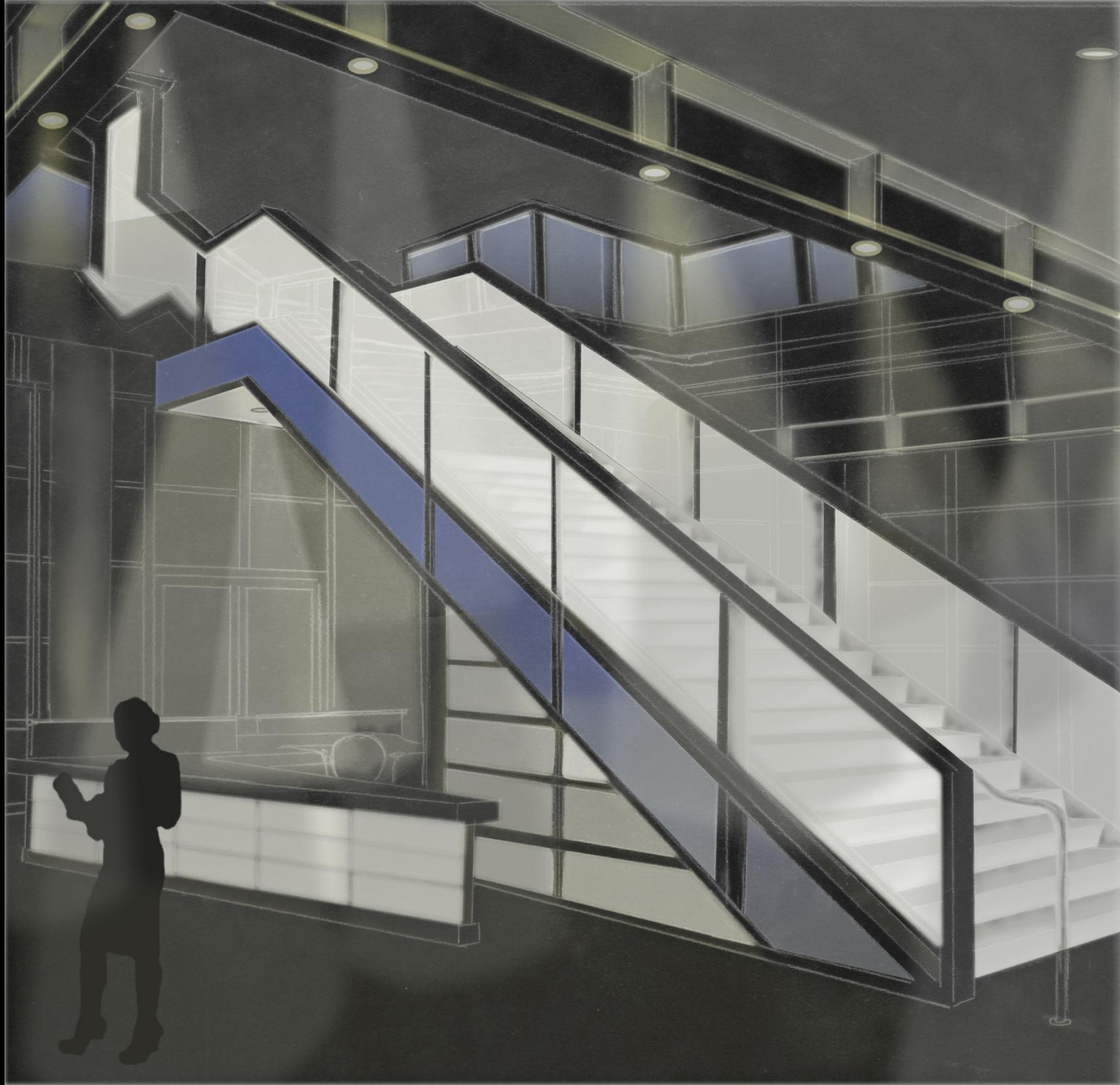
- INVITING AND IMPRESSIVE
- RECEPTION DESK ILLUMINATION
- STAIRCASE ILLUMINATION
- DAYLIGHTING FROM GLASS ENVELOPE
- ADEQUATE ILLUMINANCE FOR SECURITY PURPOSES
- TRANSITION ILLUMINANCE FROM EXTERIOR TO INTERIOR ENVIRONMENT

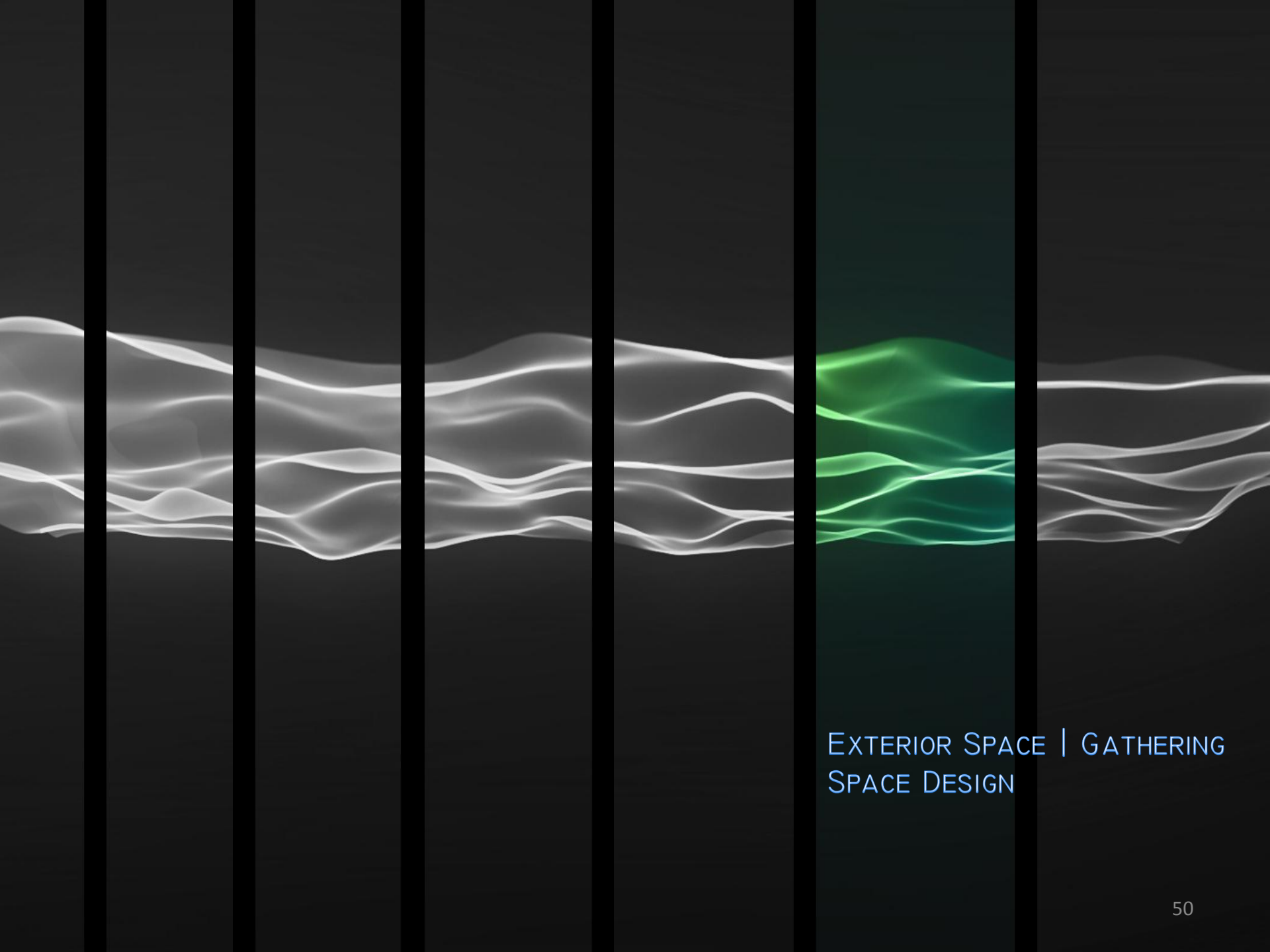






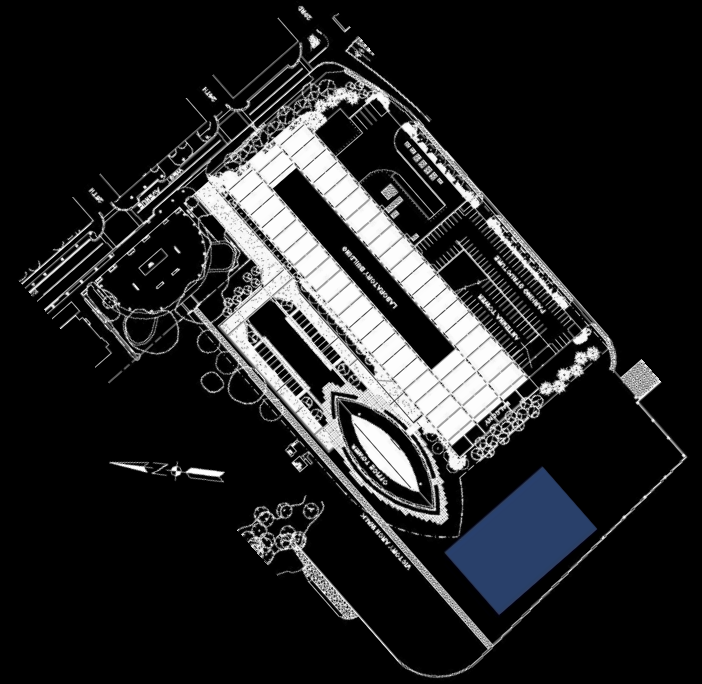






EXTERIOR SPACE | GATHERING
SPACE DESIGN

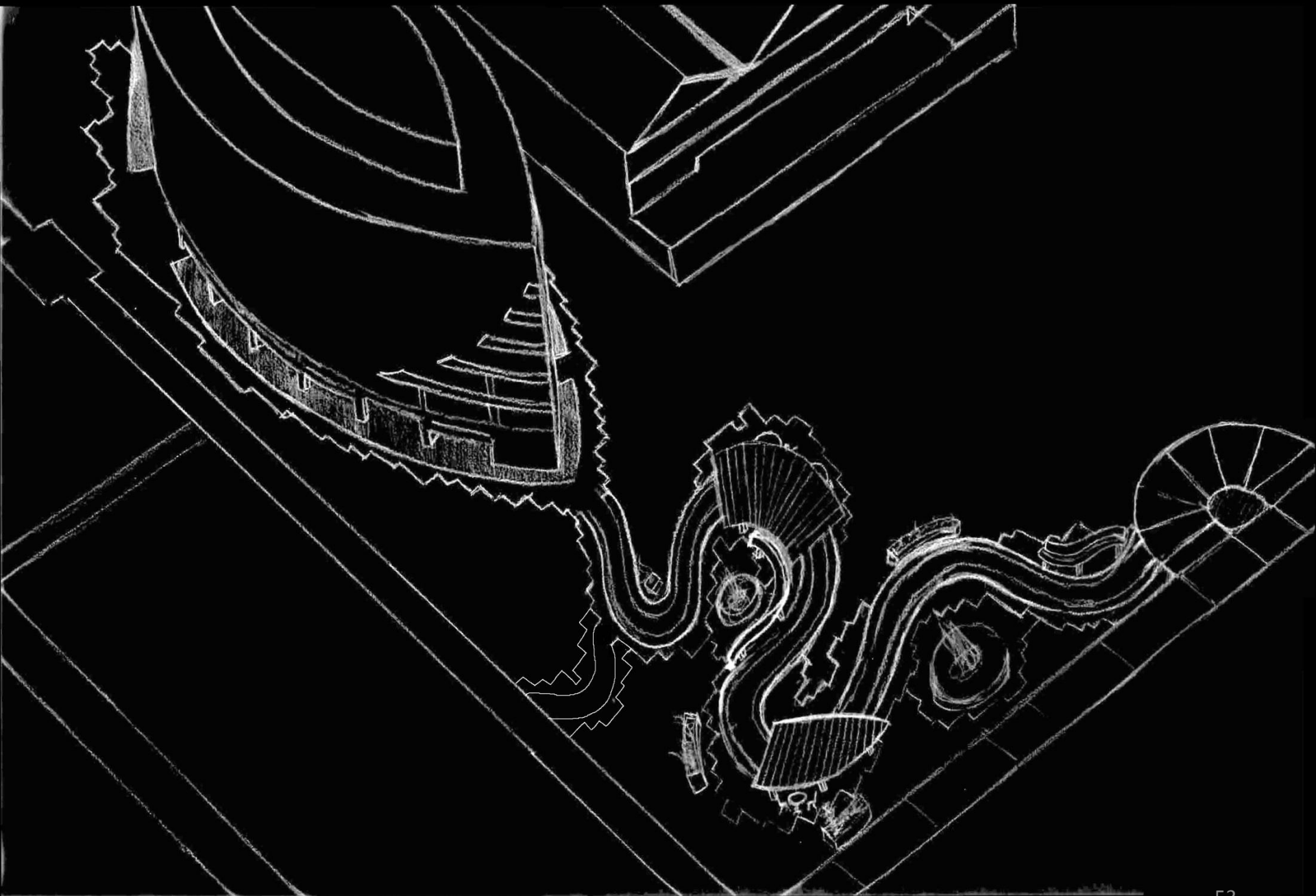
EXTERIOR | GATHERING SPACE

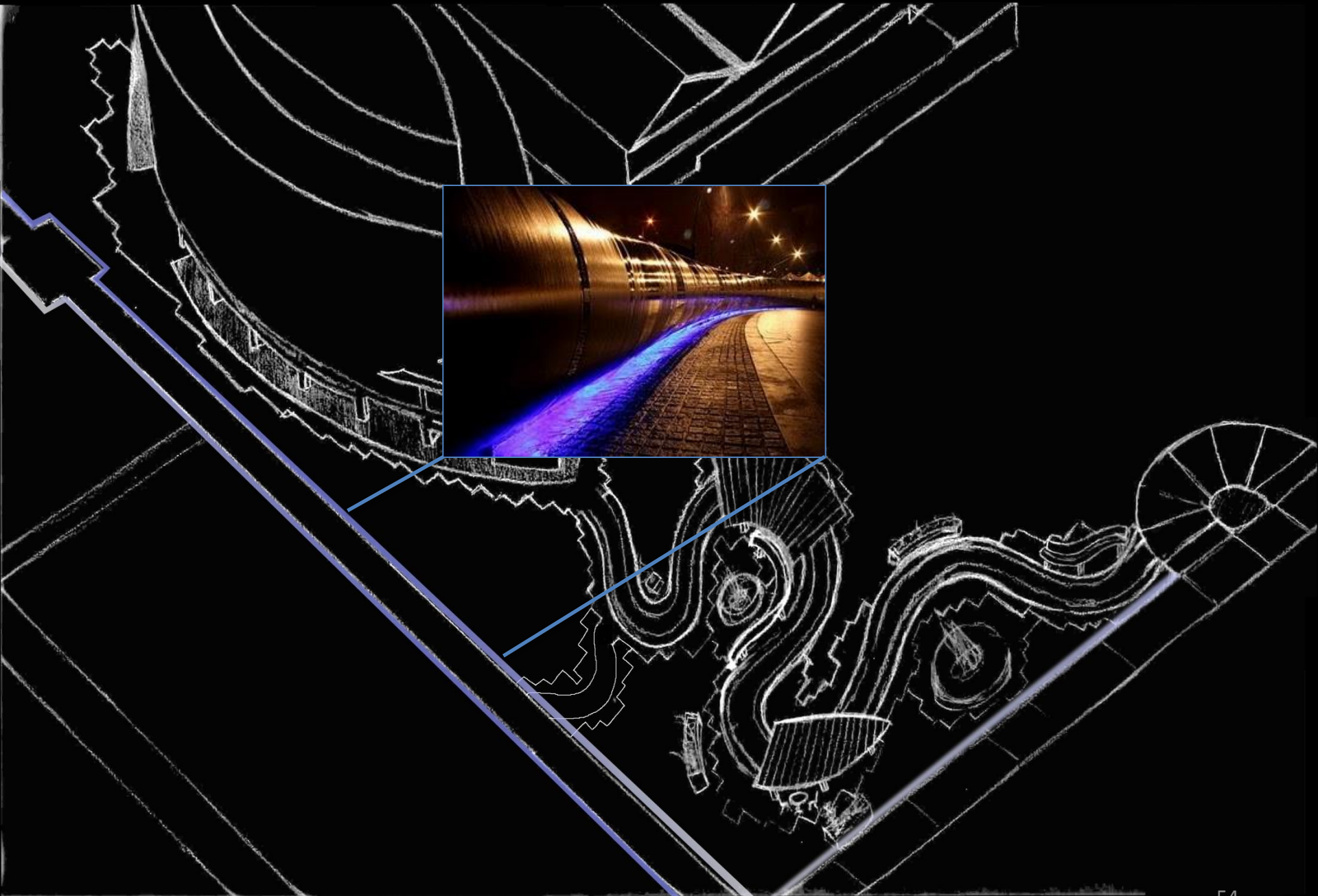


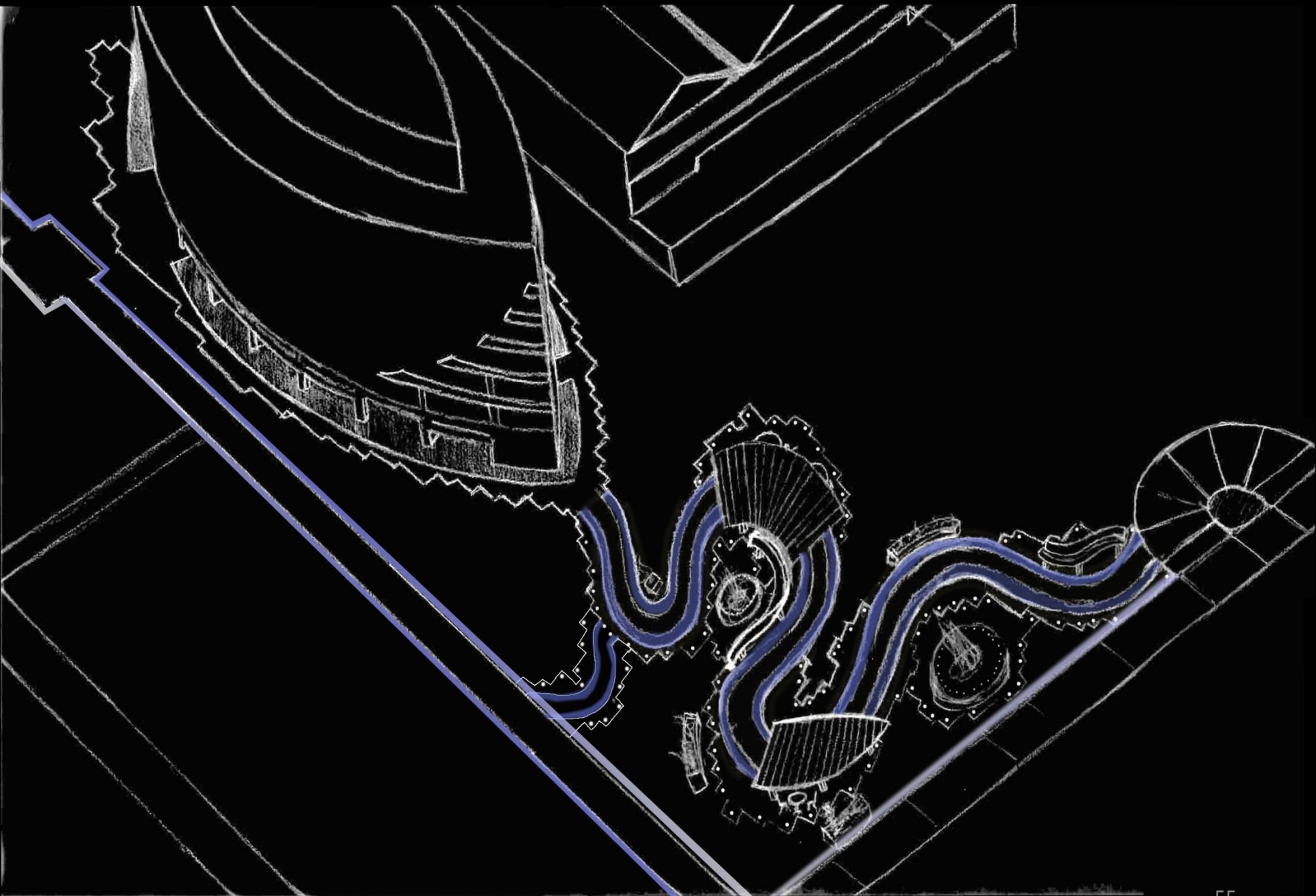
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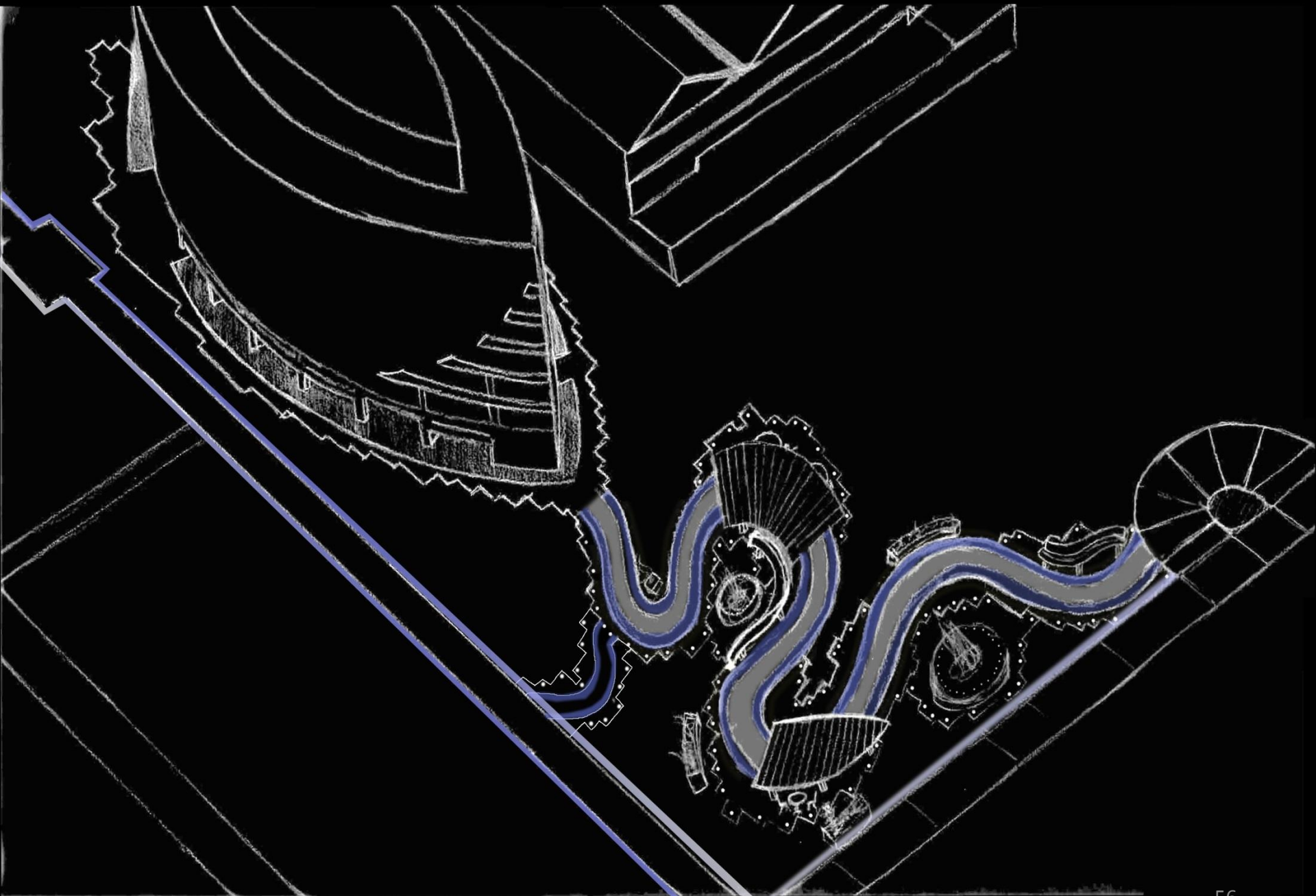
- INTENDED USE OF SPACE
- SIGNIFICANT SPACES IN DAYLIGHT VS. NIGHTTIME - CONTROLS
- SECURITY ILLUMINANCE
- PATHWAY ILLUMINANCE
- FLYNN IMPRESSION- FESTIVE
- LIGHT POLLUTION
- MINIMIZE NON-TARGET ILLUMINATION

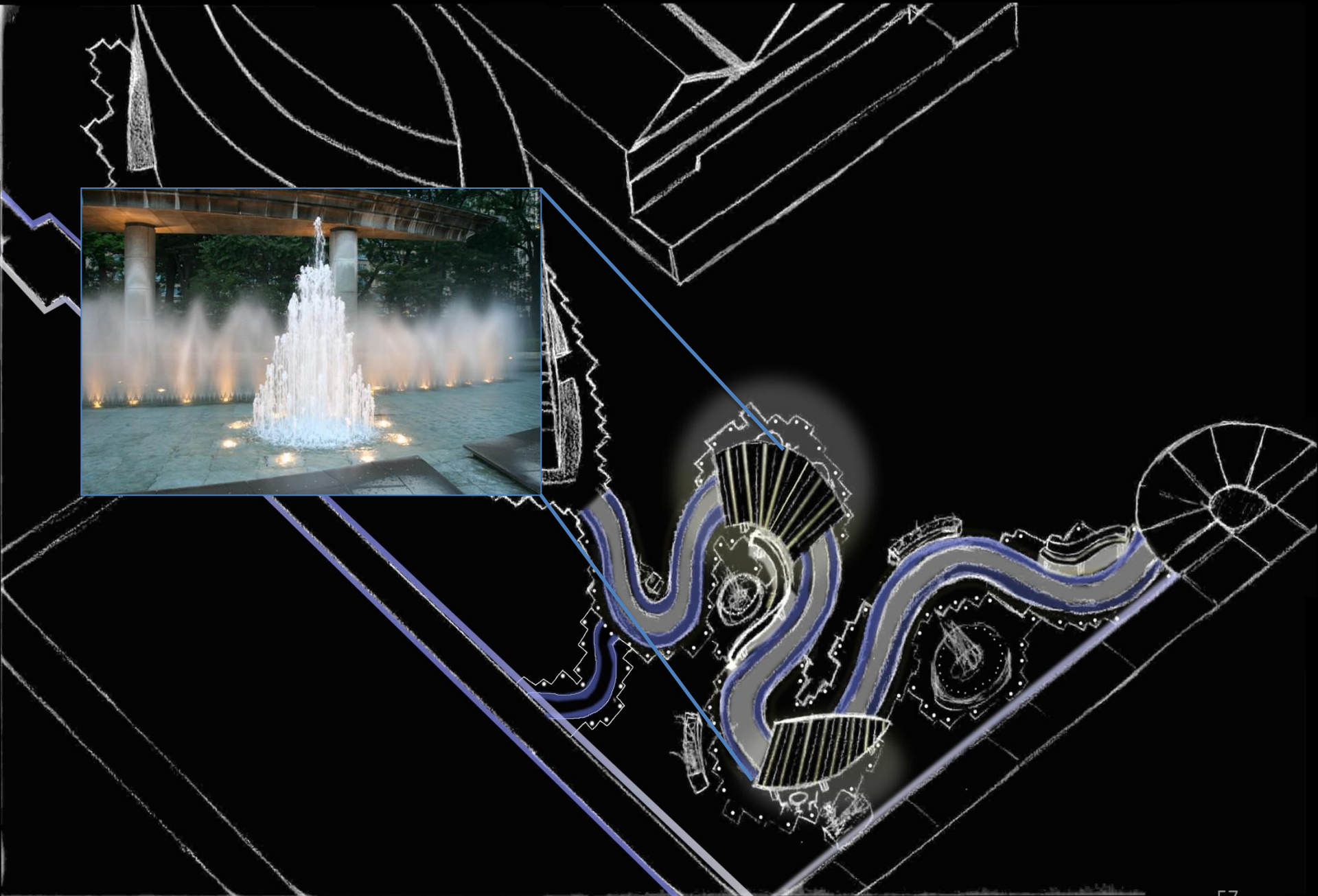


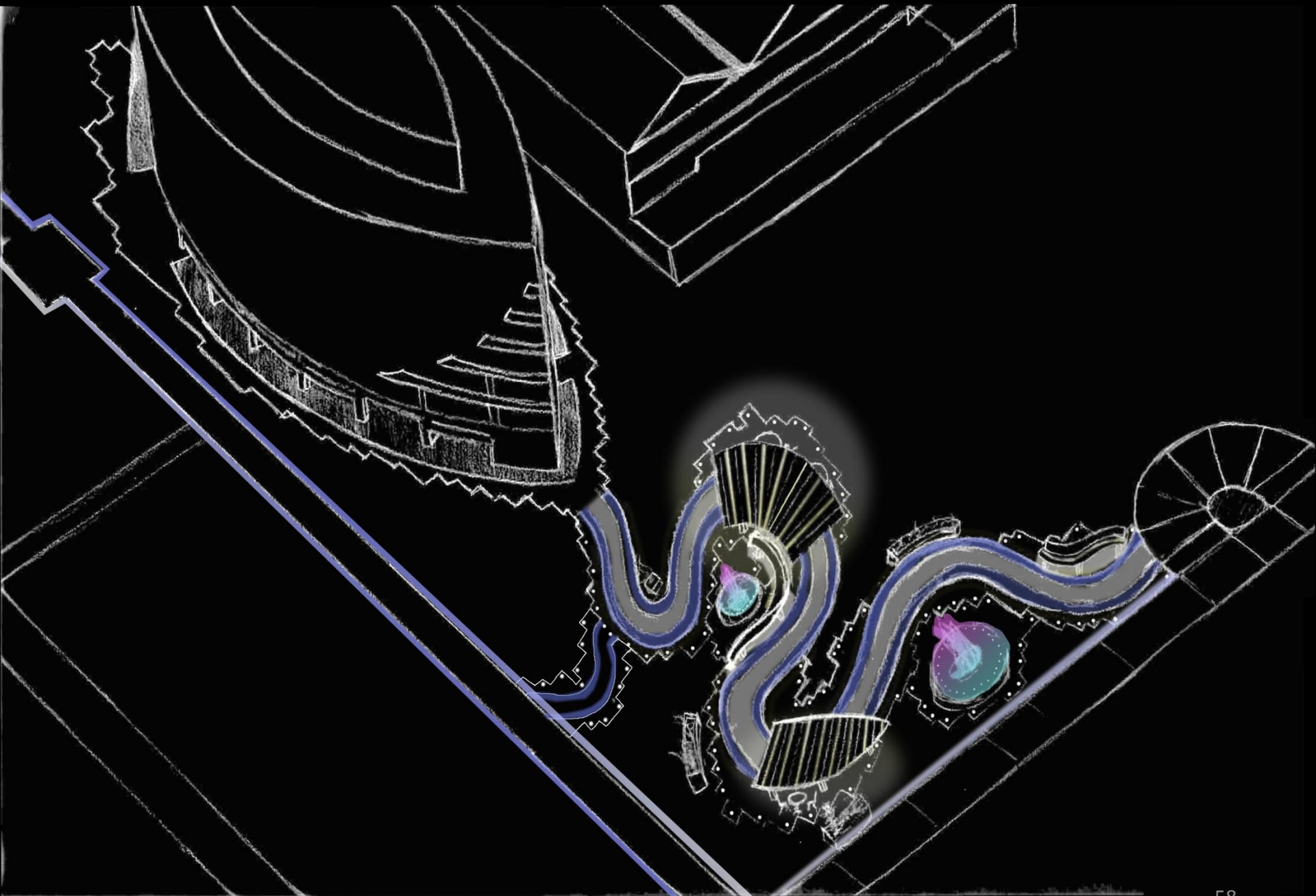


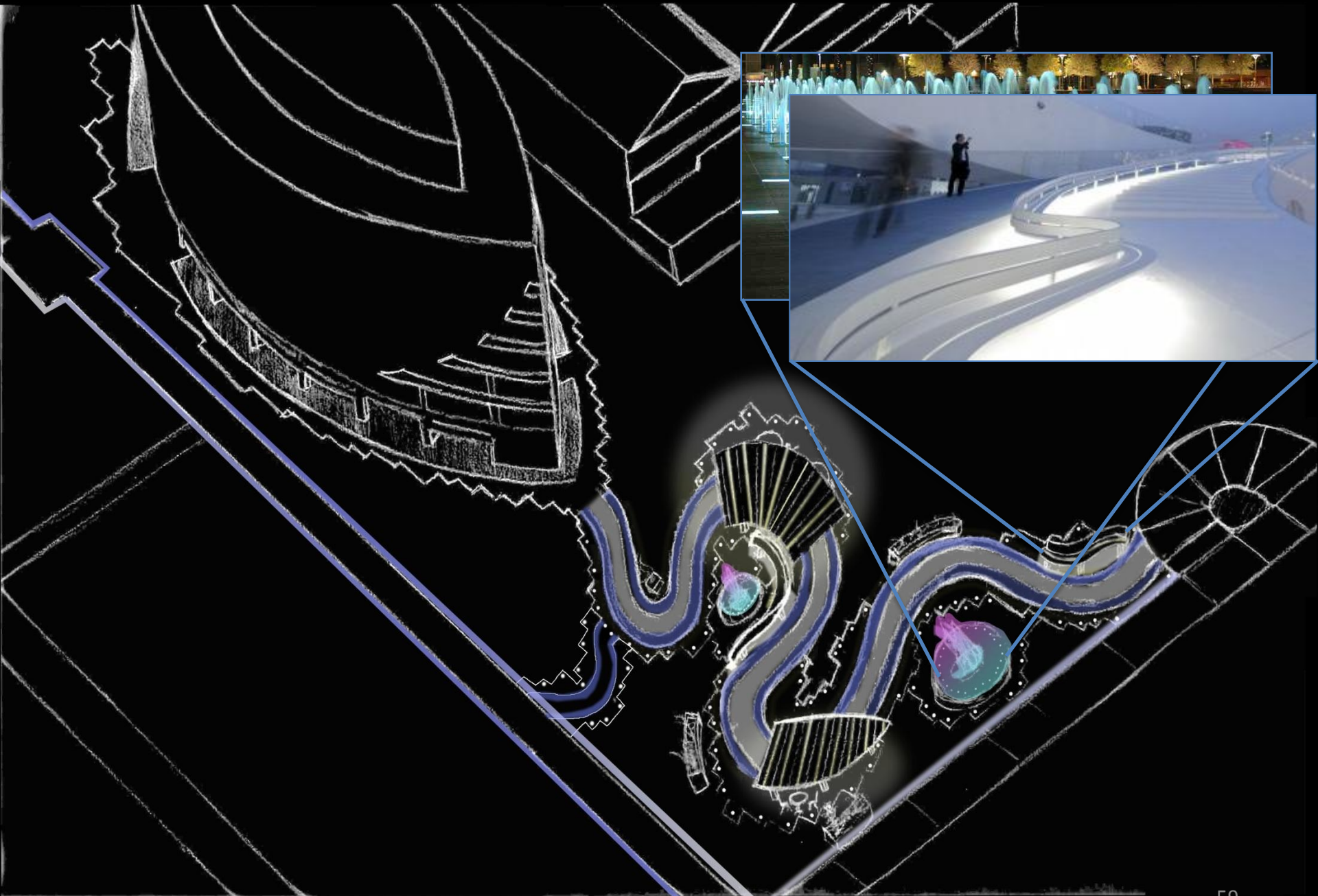












DESIGN CONCEPTS



Free Flowing

Dy**N**amIc

Fluid

LIQUID

THANK YOU.

QUESTIONS?

