Functional Beauty: The Design of Hospitality

East Side of 1st Ave between 41st and 38th St, New York City, NY

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Master of Architecture in Architecture

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Abstract

This project explores the use of poured-inplace concrete as a bearing wall structure, in lieu of a column and slab system, in order to permit the formation of multistory, grand spaces indicative of a luxury hotel. These carved out spaces create a pathway through the building, allowing for the choreographed movement of a traveler from the initial point of arrival to reaching his or her destination at the pinnacle suite.

To my family and friends:

Thank you, for allowing me to follow the road less traveled, for supporting my dreams, and for encouraging me to defeat all odds.

Table of Contents

Introduction	-
Site + Context	(
Structure	14
Program + Organization	24
Choreographed Views	4!

Introduction

Hospitality is the act of letting in a stranger: a very risky and dangerous profession. Today, hospitality has lost some of its risk by turning itself into a purely service industry: where every human interaction begins with an act and ends with a transaction. In order to provide true hospitality, one must strip away all facades and become exposed, to bear their soul, in order to connect with their fellow human.

This same degradation occurs in contemporary architecture. Current building practices plaster layers upon layers until the outward facades have nothing to do with the structure that holds them. In the same way that humans lose their integrity and their soul by demeaning themselves to a performance, so does a building lose its soul.

This project attempts to design a hotel where the building retains and exposes its soul. Exploring the use of reinforced concrete as an interwoven bearing wall system takes advantage of concrete's multi-directional force distribution capabilities, and allows for the creation of large, grand spaces. This sets the stage for beautiful, functional design at the human level, and opens the door for true hospitality to take place.

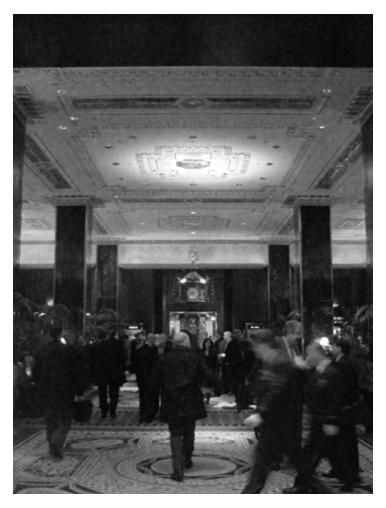
This page: The Palm Court, The Plaza Hotel, *left*; The Madison Room, The New York Palace, *right*.

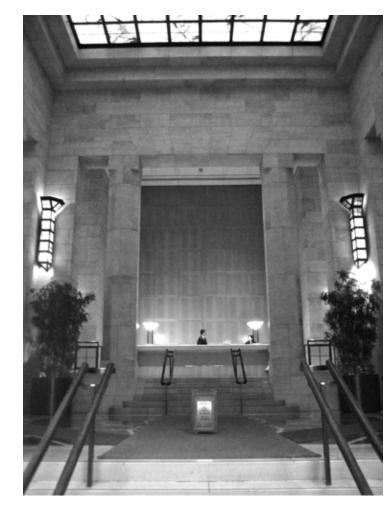
Opposite page: Ballroom Elevator Lobby, The Plaza Hotel, *left*; Registration Lobby, Waldorf=Astoria Hotel, *middle*; Entry Lobby, The Four Seasons, *right*.













Ballroom Panorama, Walford=Astoria



Exterior, The Plaza Hotel



Entrance, New York Marriott East Side

Site + Context

Located just south of the United Nations Complex on 1st Ave, this hotel is meant to capture the demands of the UN and surrounding area visitors to New York City. With a competitive set including hotels like the Waldorf=Astoria, St. Regis Hotel, and Intercontinental, this hotel would provide the advantage and convenience of proximity. Locating guest rooms, suites, and upscale meeting facilities close to the UN would allow for the ease of security and limit the security impact of UN activities on New York as a whole, especially during the annual General Assembly.



Site Plan



Site Panorama



Trump World Tower



Site: View towards UN Complex



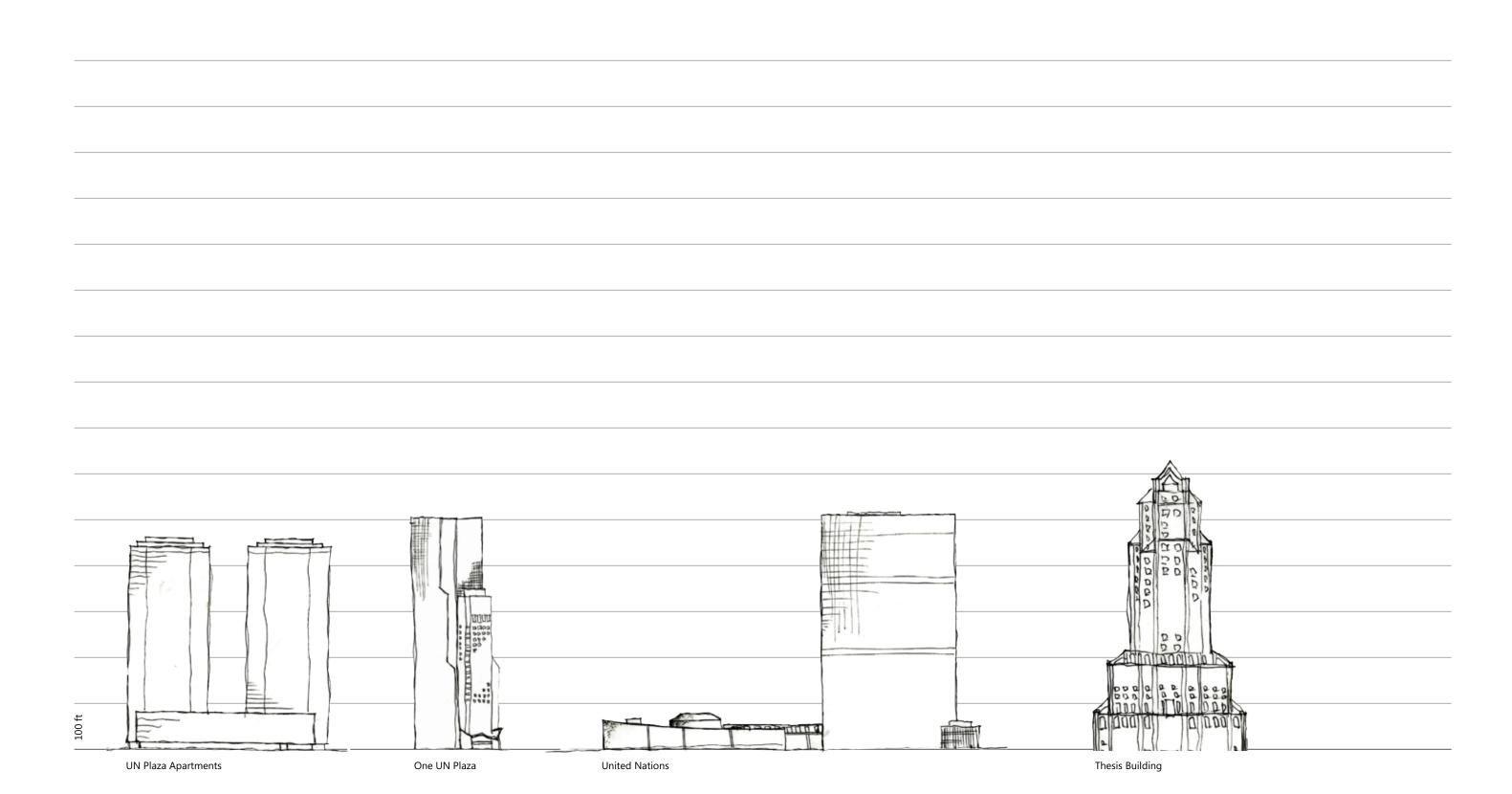


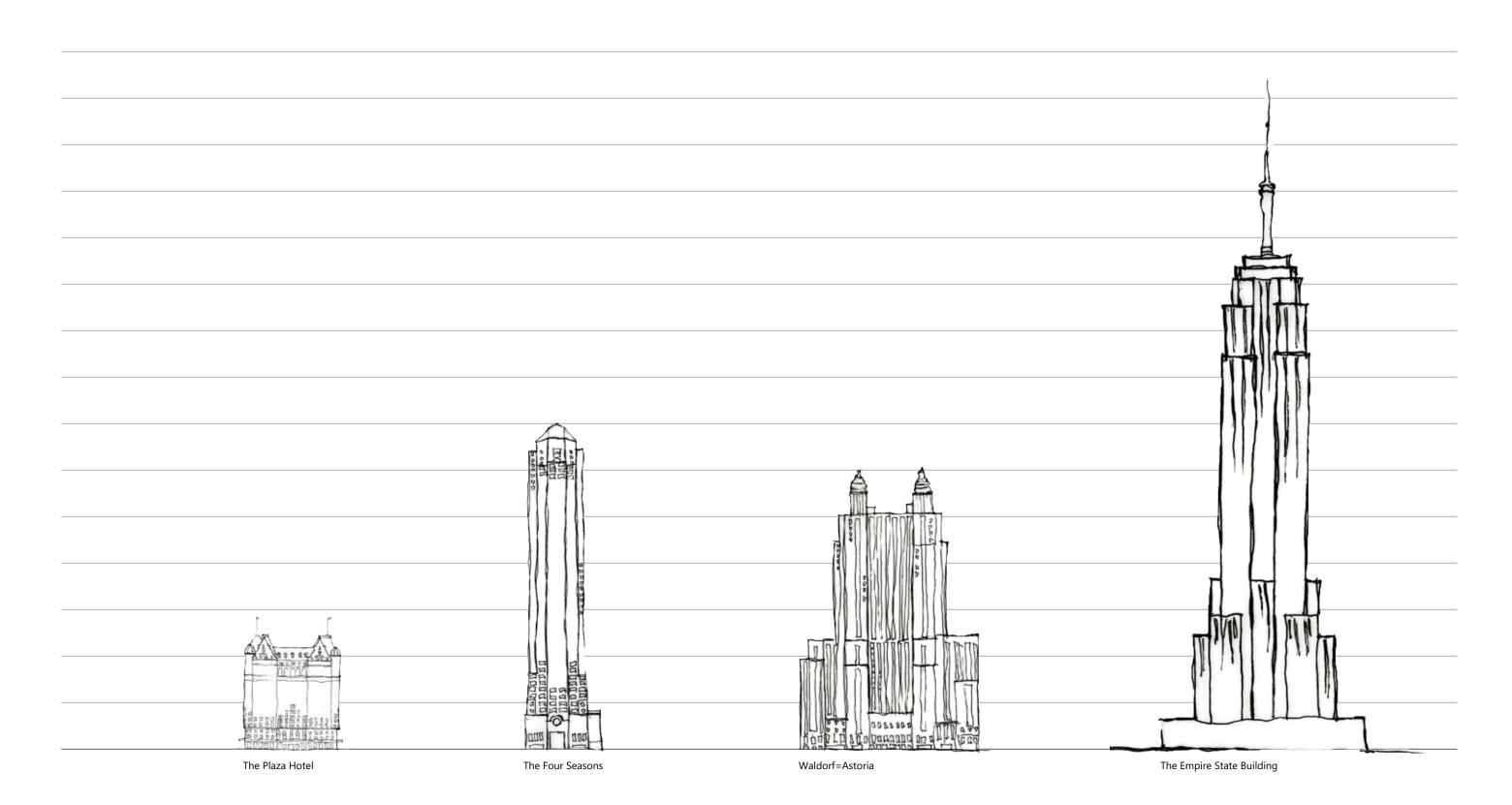


UN Plaza Apartments

One UN Plaza

United Nations



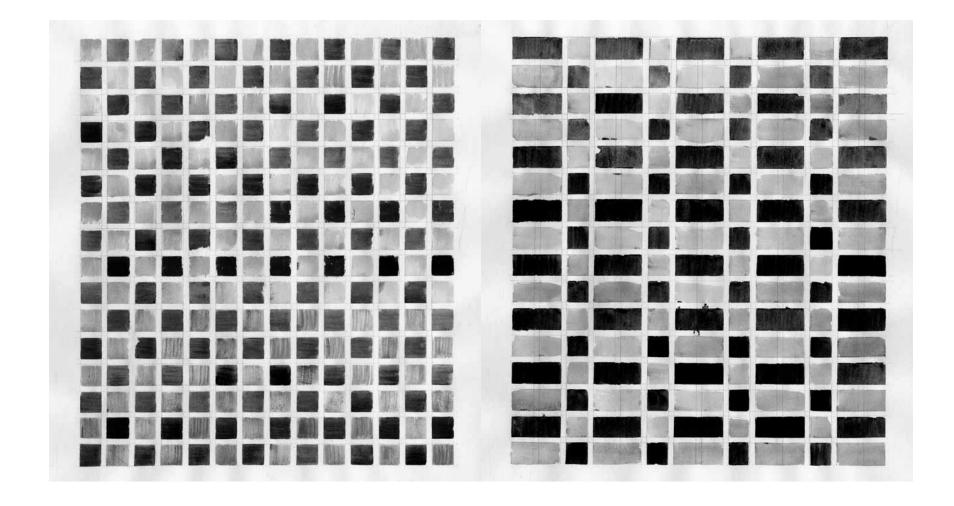


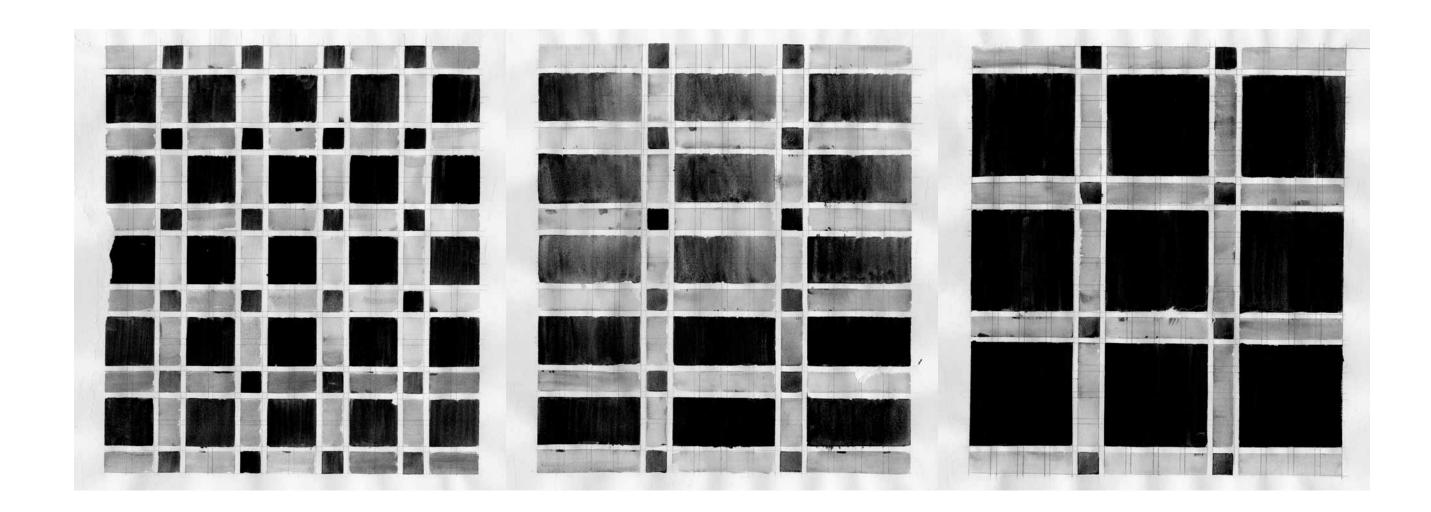
Structure

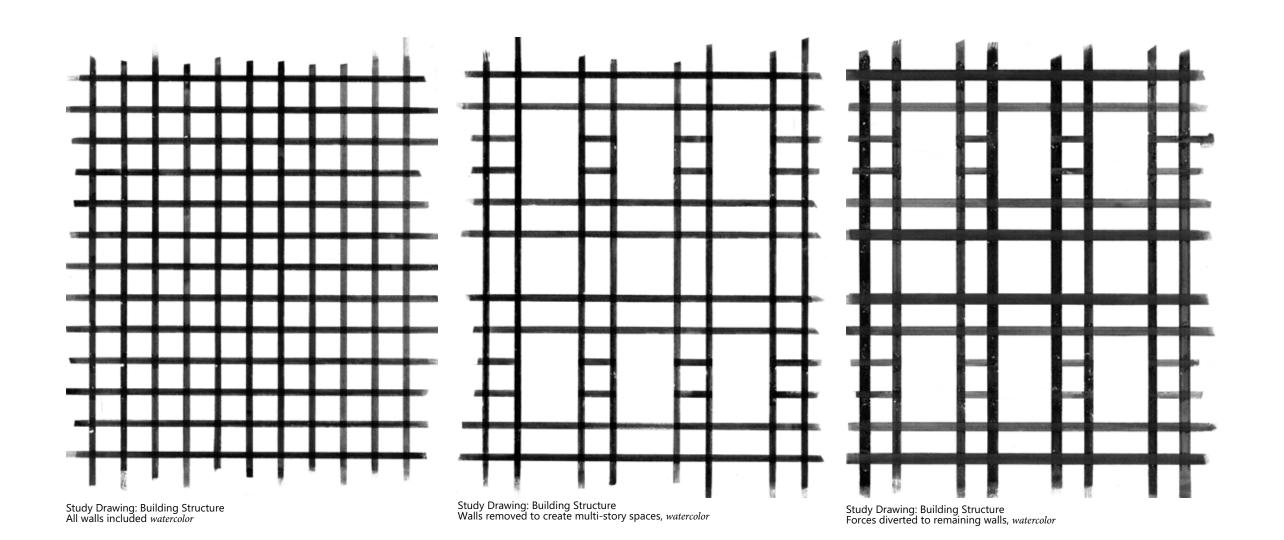
Weaving has repeatedly found its way into architecture. Here, the concept of the interlocking warp and weft sparked the idea of perpendicular reinforced concrete bearing walls. Treating concrete in this manner ensures structural support against shear forces, allows the removal of interior walls to create larger spaces, and diverges resulting load responsibilities to larger exterior members.

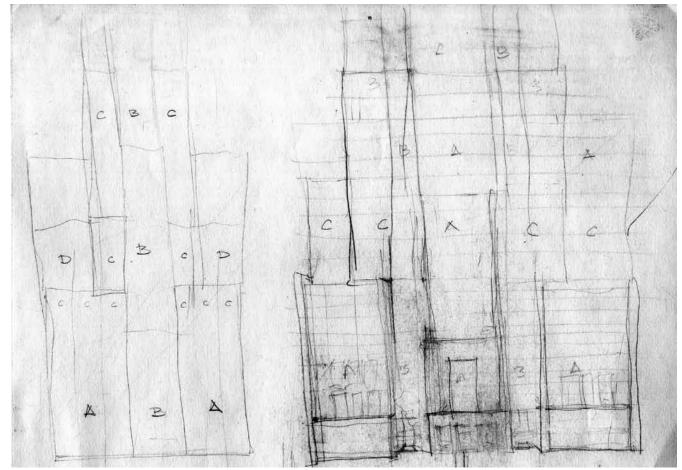
Just as removing a thread from a plain weave leaves that area weaker than the rest of the fabric, so would removing a wall weaken the structure. Therefore, as walls are removed to open up key spaces, their loads are bundled into neighboring walls, protecting the structure against the created weakness and strengthening the fabric as a whole.

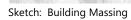
This page + Opposite page: Study Drawings: Grid Systems, watercolor

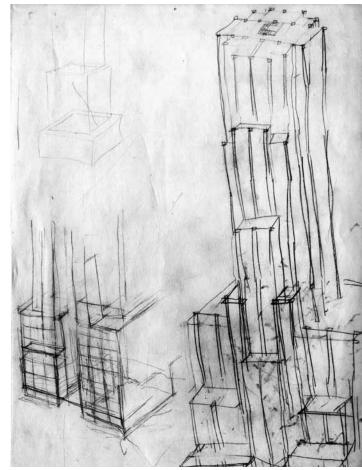










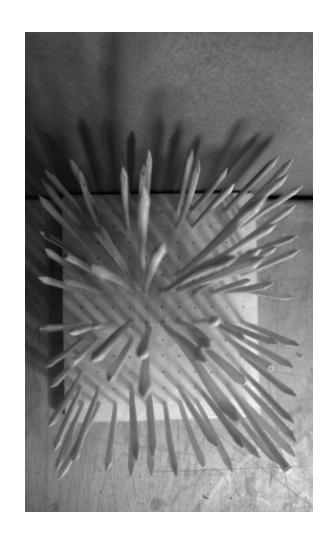


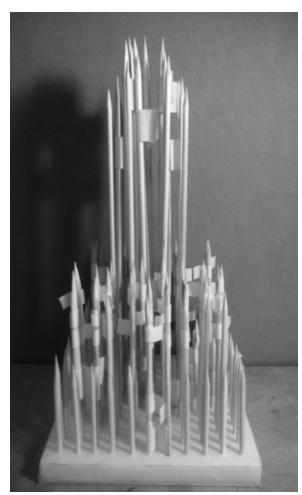
Sketch: Building Massing

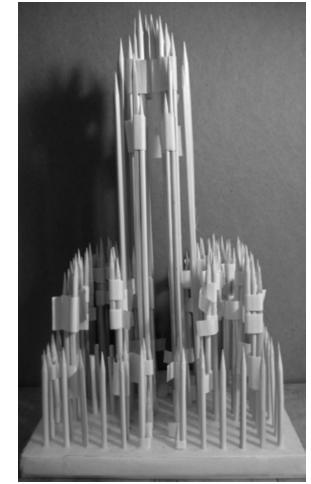


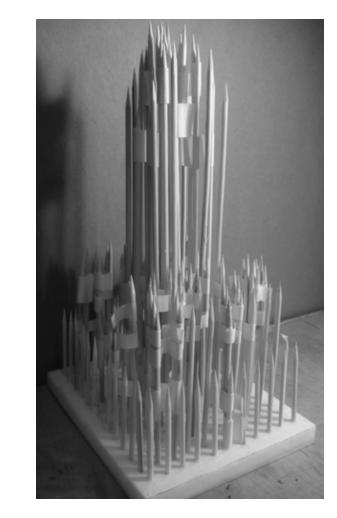
Study Model: Building Structure, Column System



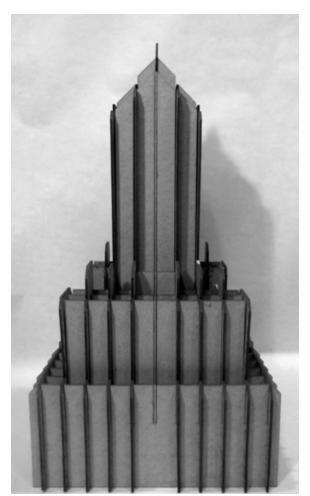




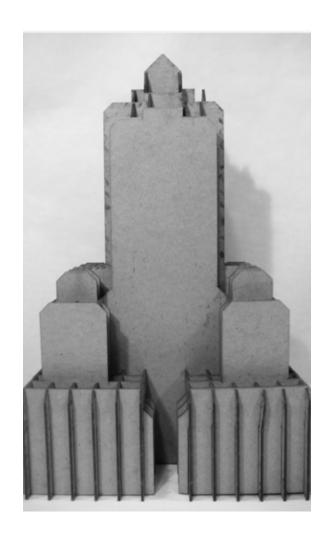


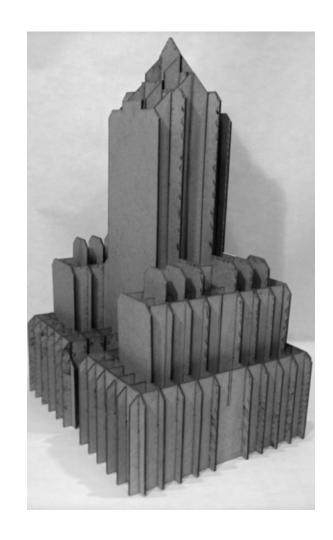


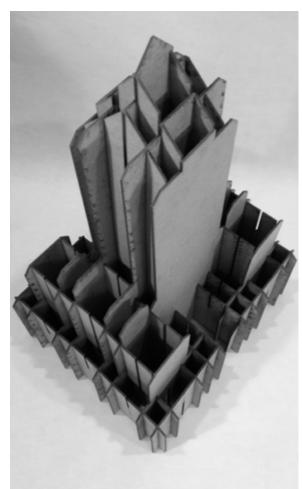
Study Model: Building Structure, Column System with bundled forces from removed columns



Study Model: Building Structure, Walled system with all walls present



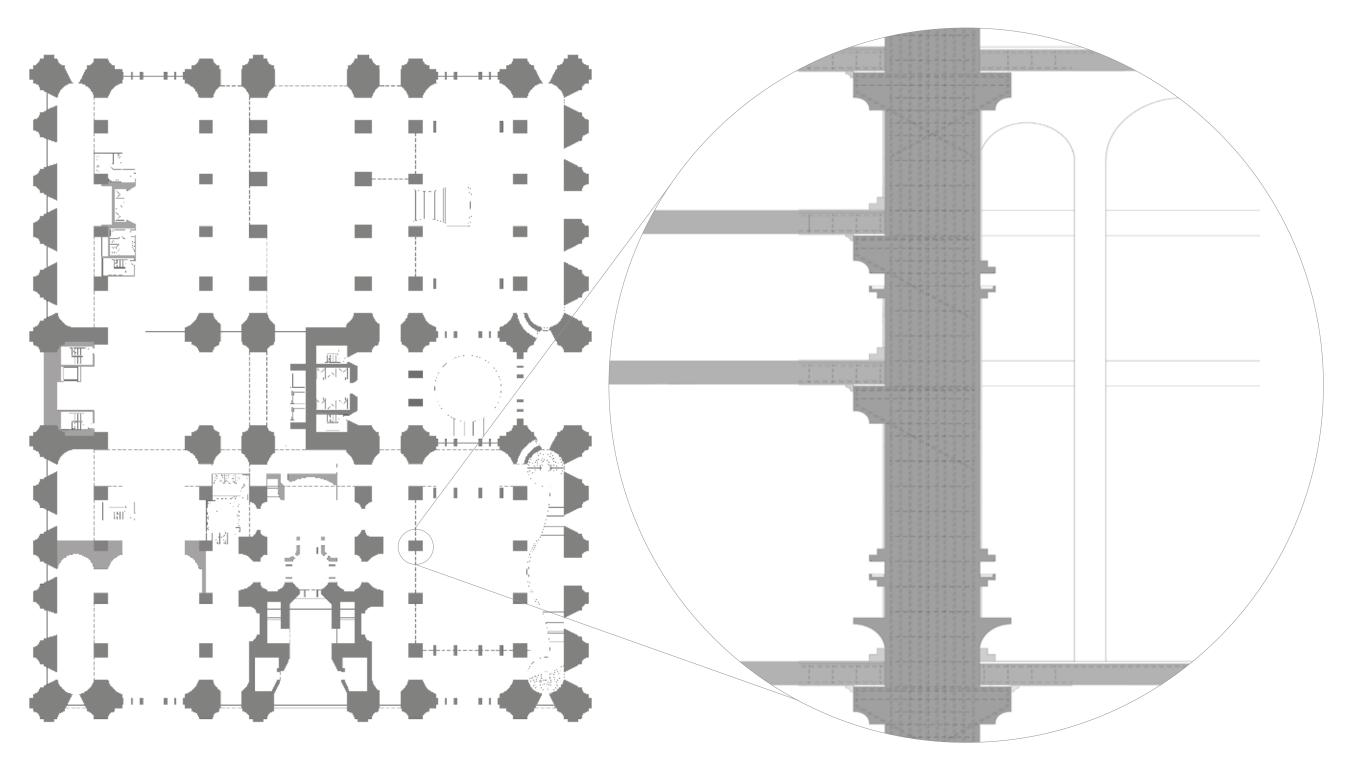








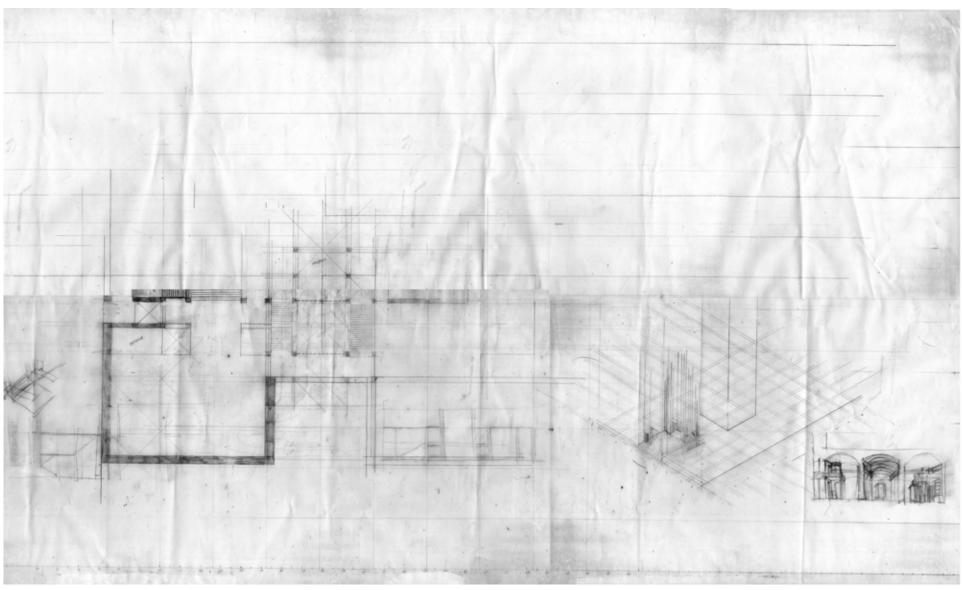
Study Model: Building Structure, Walled system with walls removed to create multi-story spaces



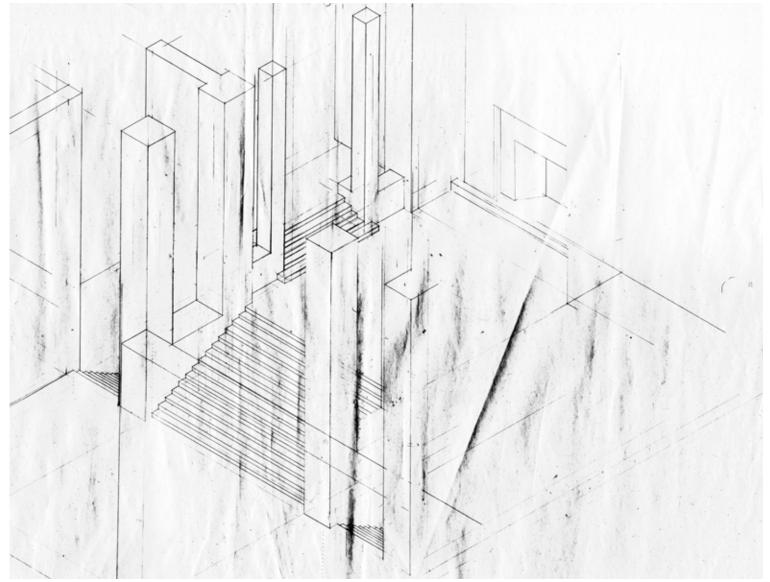
1st Floor: Lobby Partial Wall Section

Program + Organization

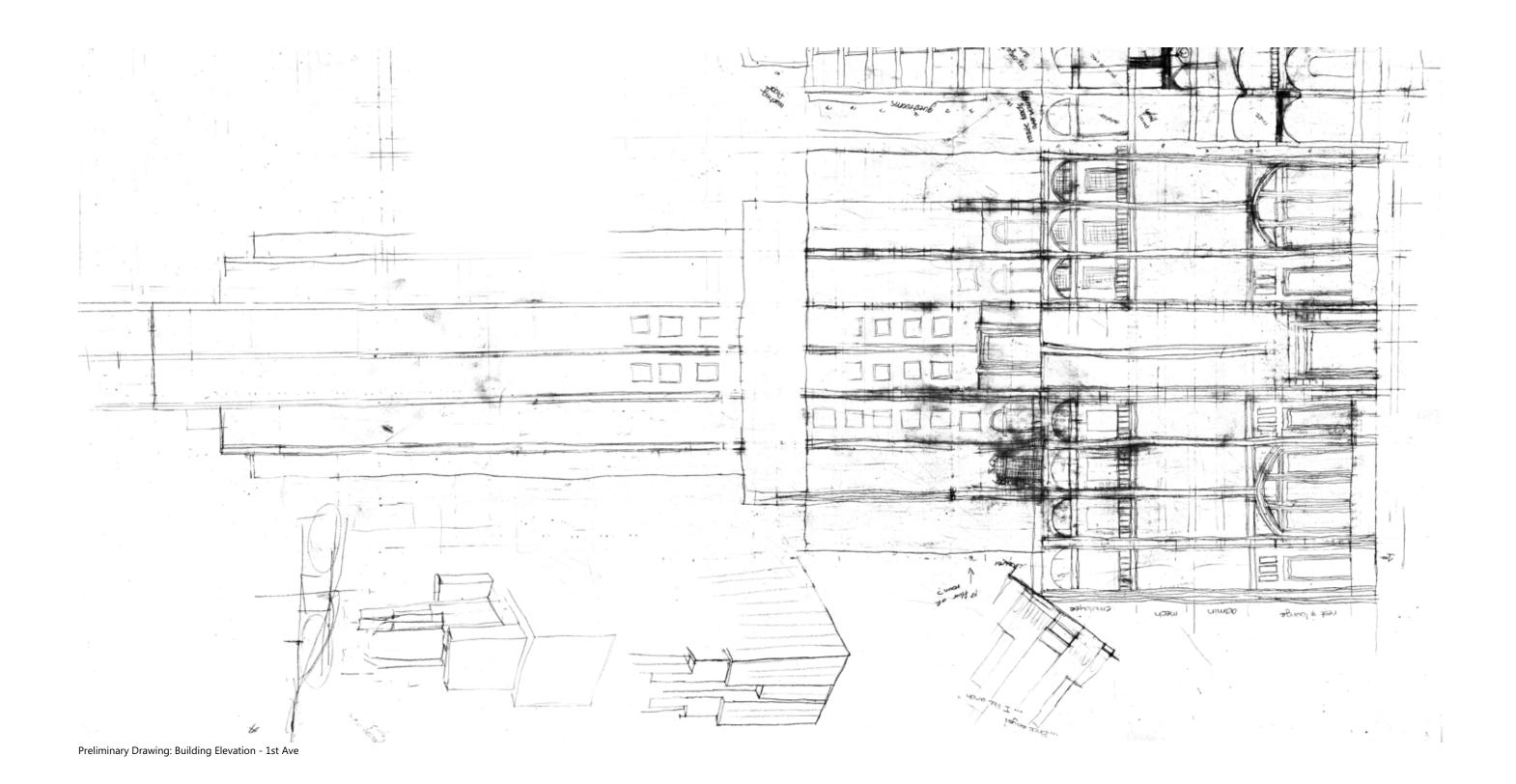
As William Shakespeare wrote in As You Like It, "All the world's a stage...", and hotels are no exception. Hotels are microcosms within a city, setting the stage for many functions beyond just a place for travelers to sleep. Within these walls, people work, dine, revitalize, and socialize. With so many responsibilities occurring concurrently, pieces of the program must relate intelligently, and remain connected through a web of service spaces running through the floor plans.

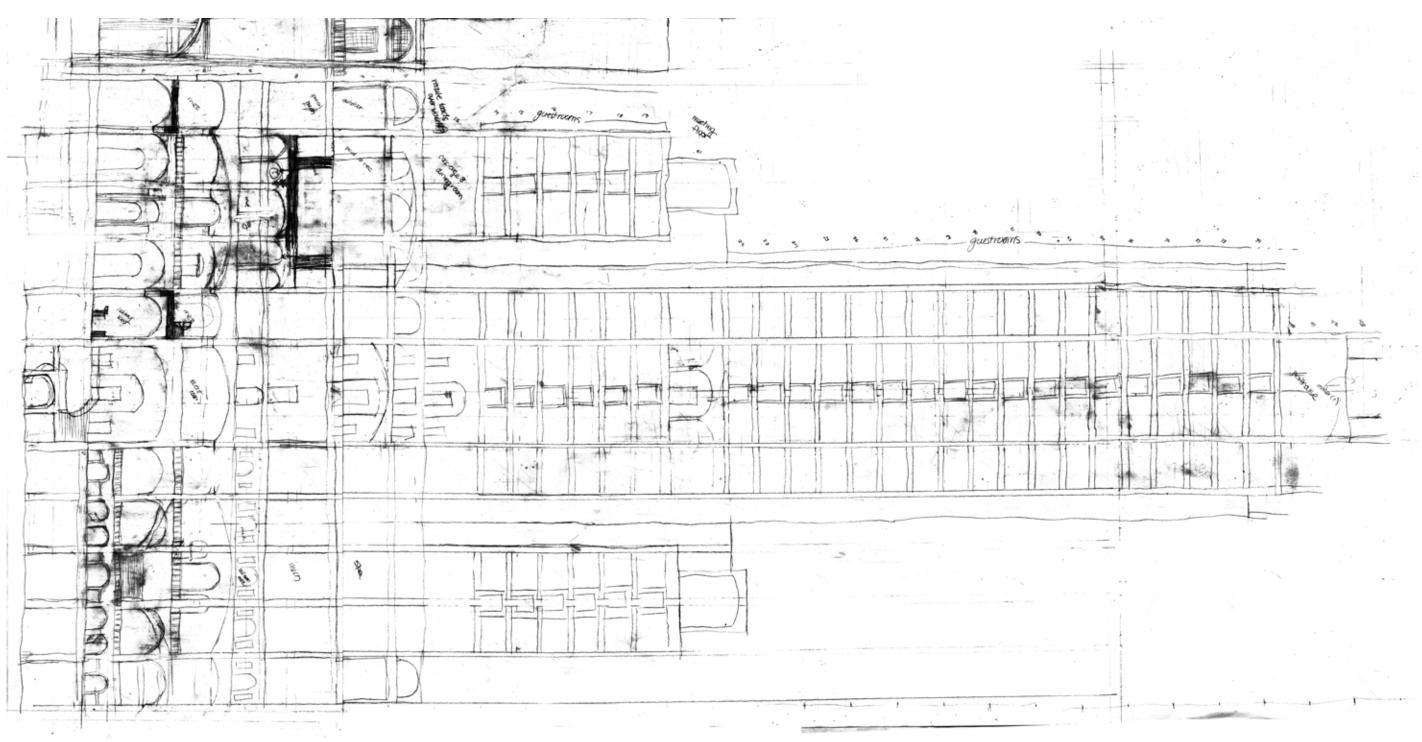


Preliminary Drawing: Drafted 1st Ave Entrance

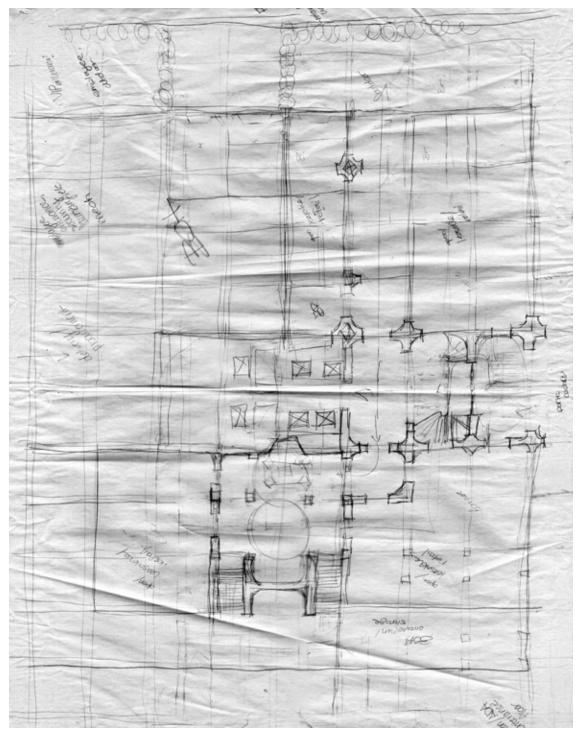


Preliminary Drawing: Drafted Axon - 1st Ave Entrance

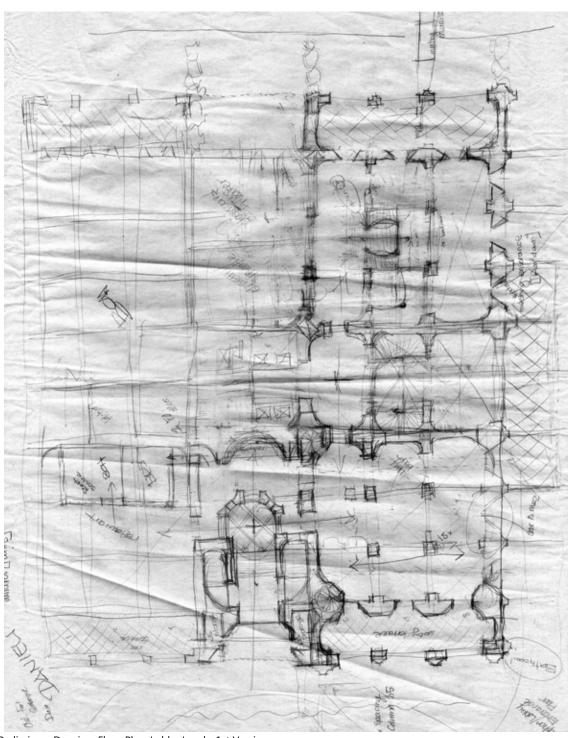




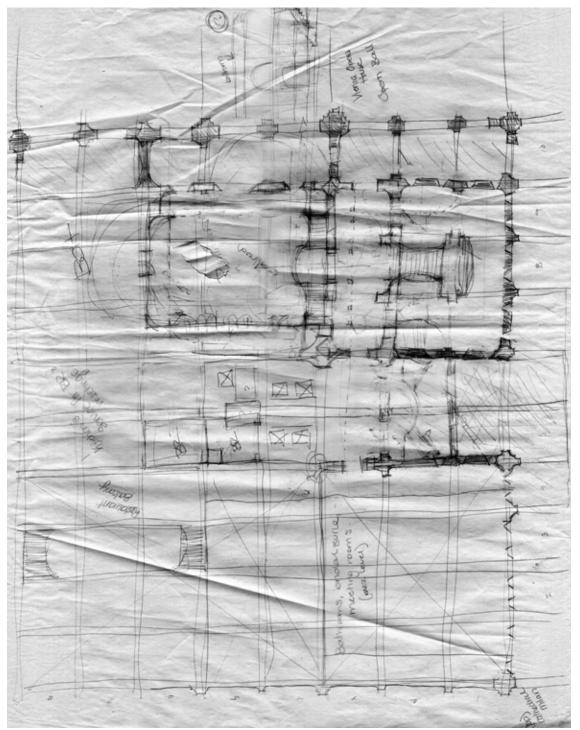
Preliminary Drawing: Section - 1st Ave to FDR Drive

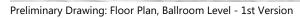


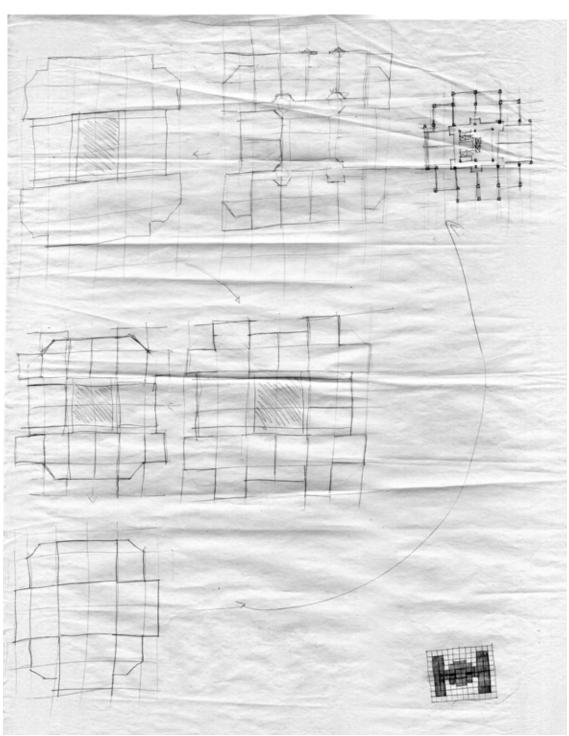
Preliminary Drawing: Floor Plan, Lower Level - 1st Version



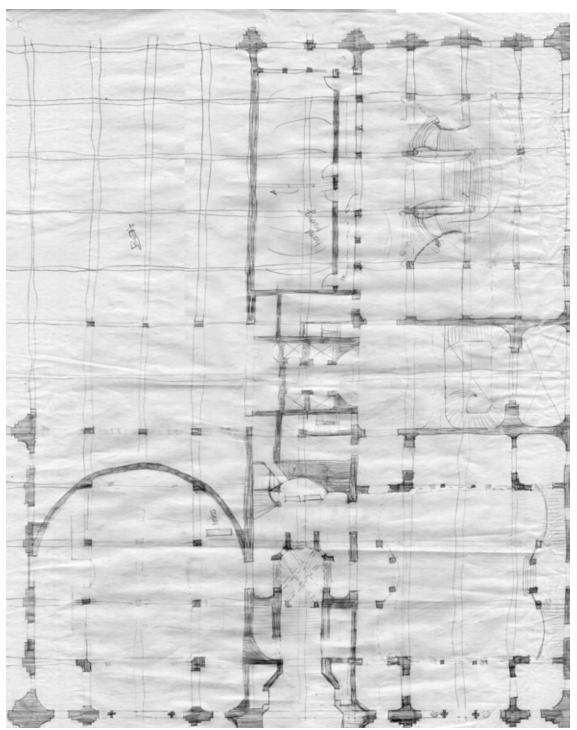
Preliminary Drawing: Floor Plan, Lobby Level - 1st Version



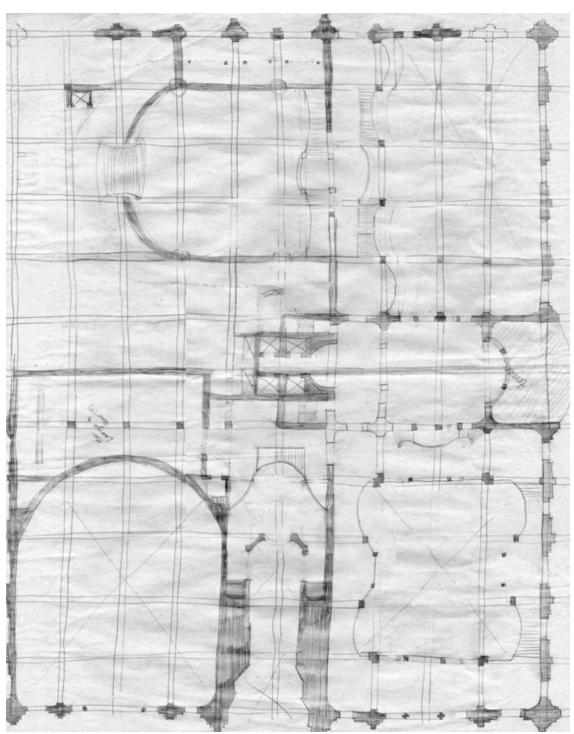




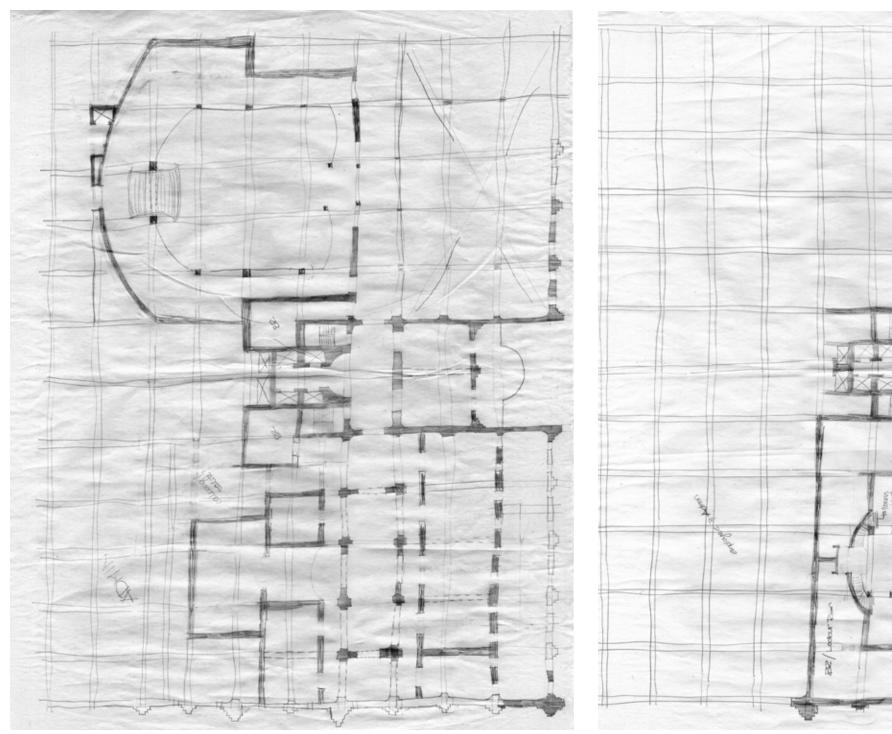
Preliminary Drawing: Tower Floor Plates



Preliminary Drawing: Floor Plan, Lobby Level - 2nd Version

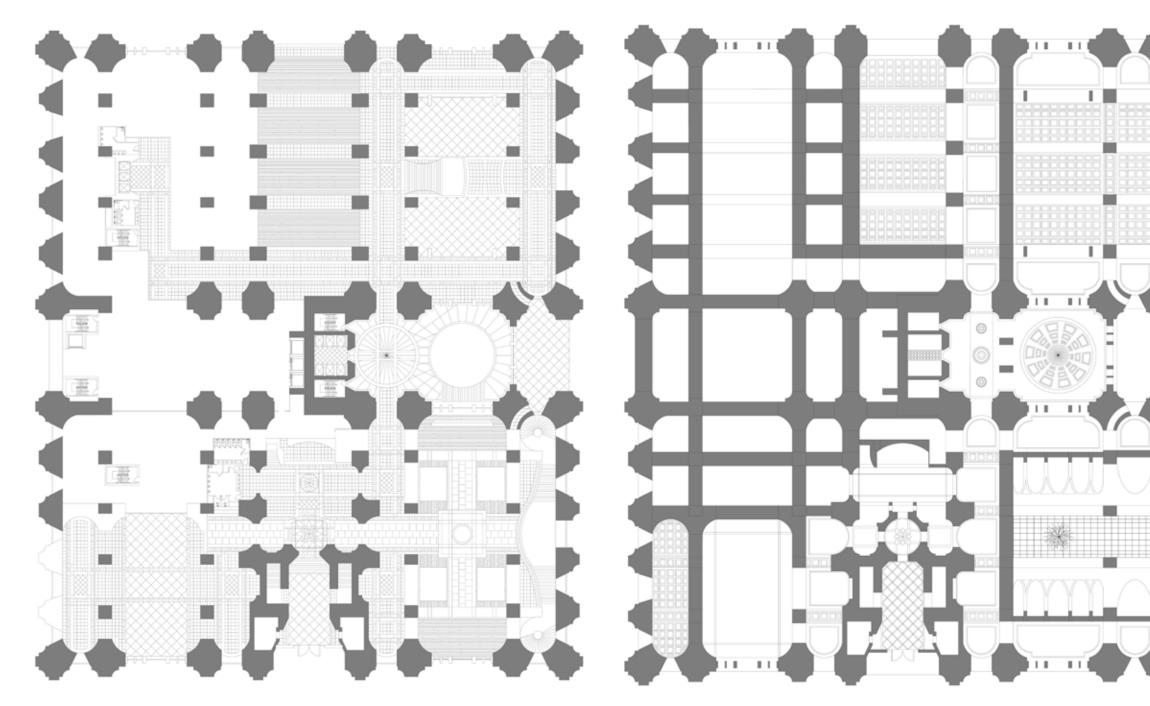


Preliminary Drawing: Floor Plan, Ballroom Level - 2nd Version



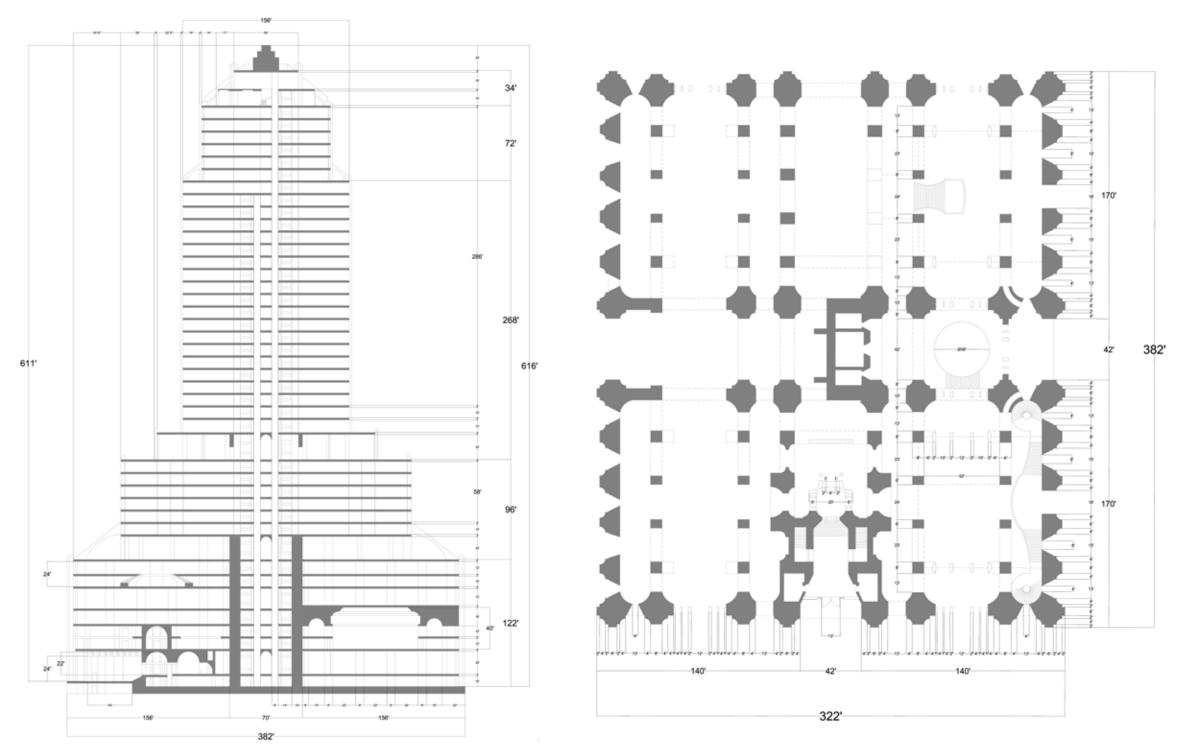
Preliminary Drawing: Floor Plan, Ballroom Mezzanine Level - 1st Version

Preliminary Drawing: Floor Plan, Pool Level - 1st Version



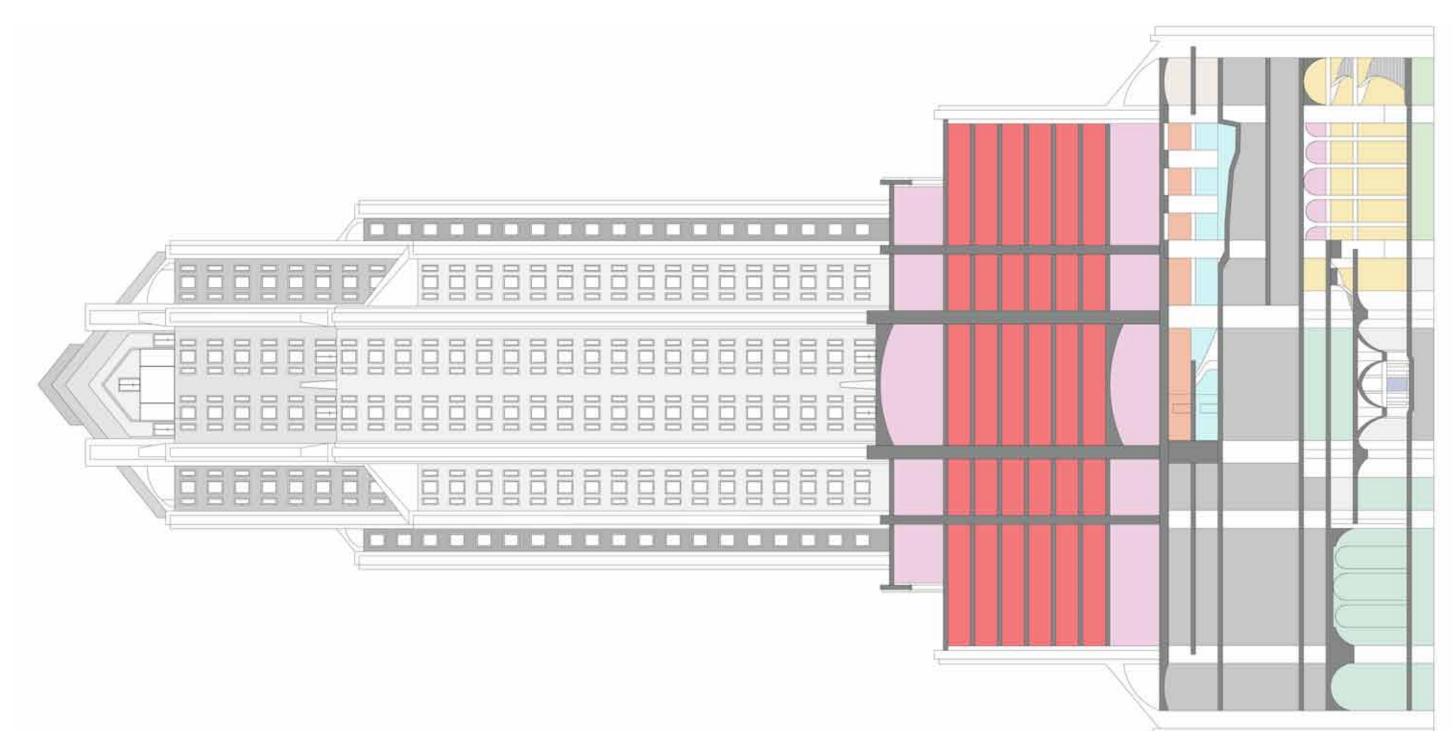
1st Floor: Lobby - Floor Plan

1st Floor: Lobby - Ceiling Plan

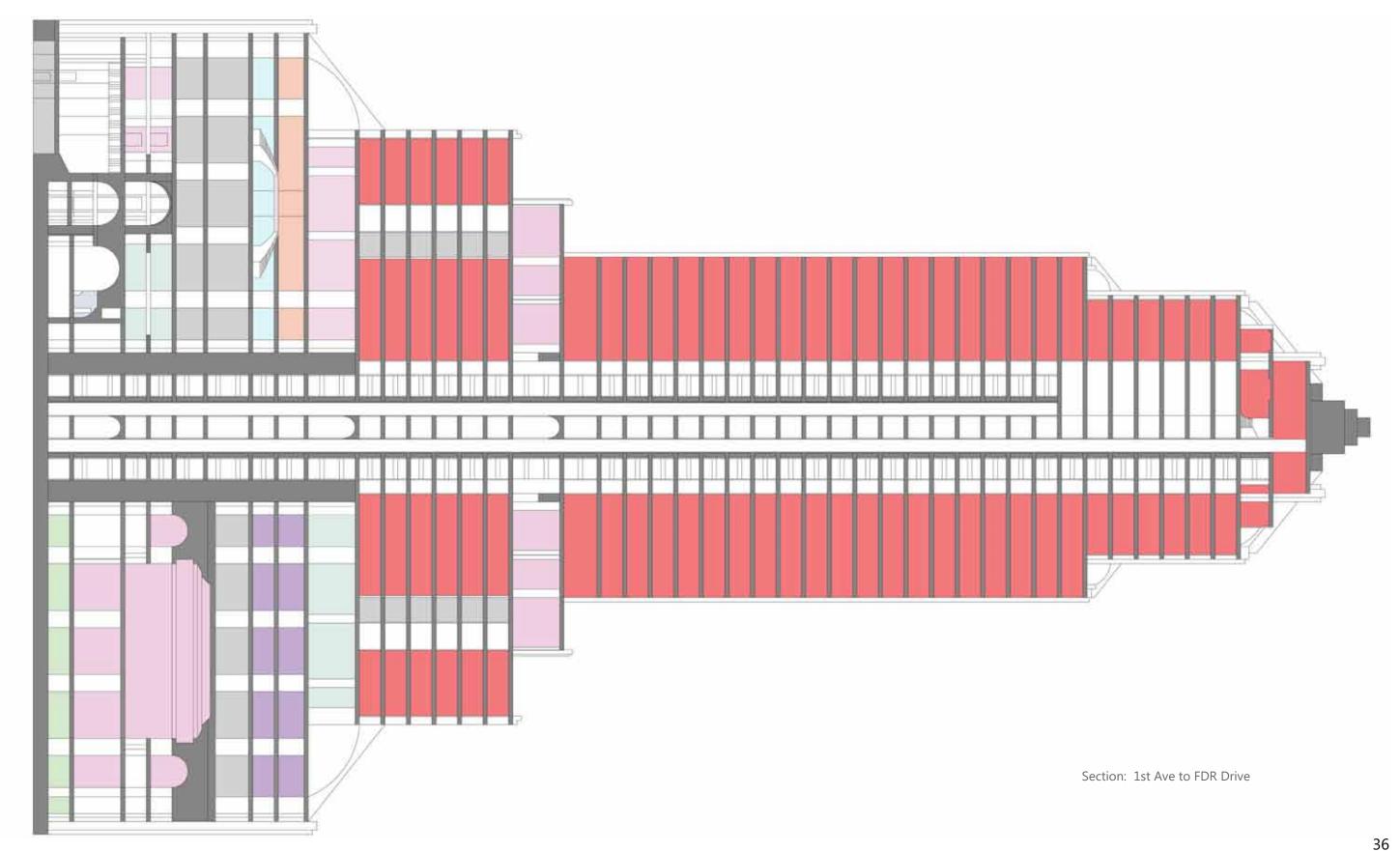


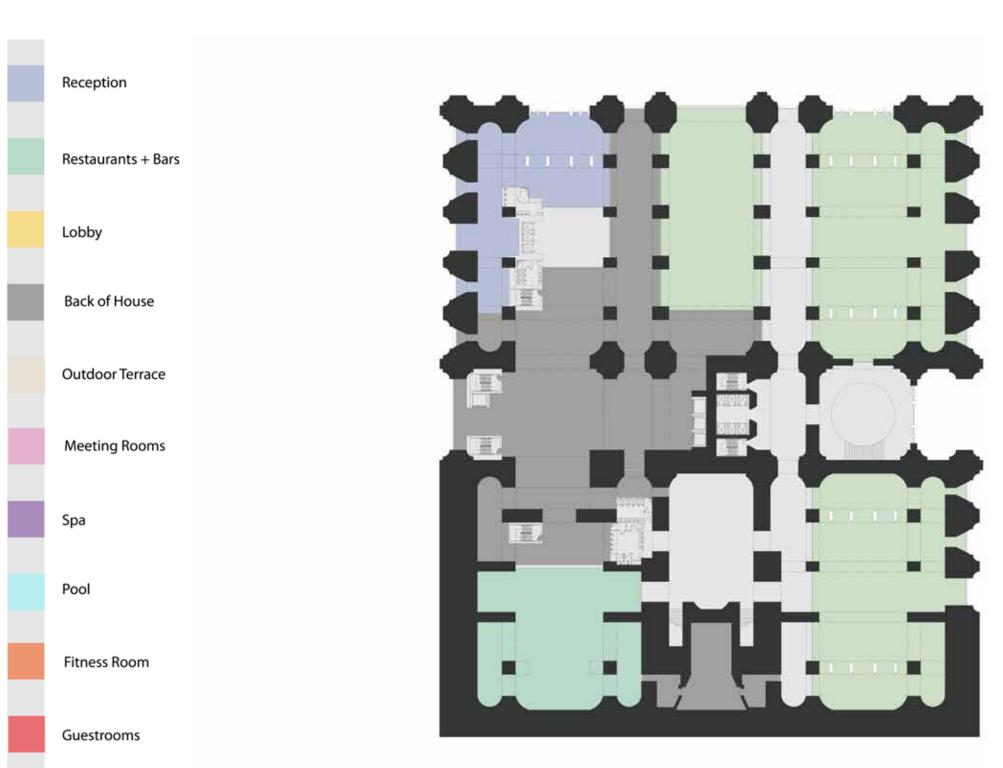
Section: 1st Ave to FDR Drive - Dimensions

1st Floor: Lobby - Dimensions

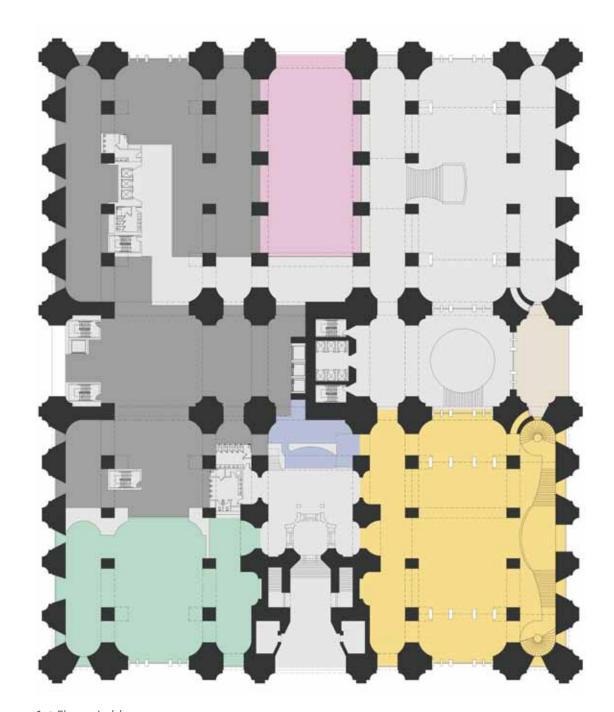


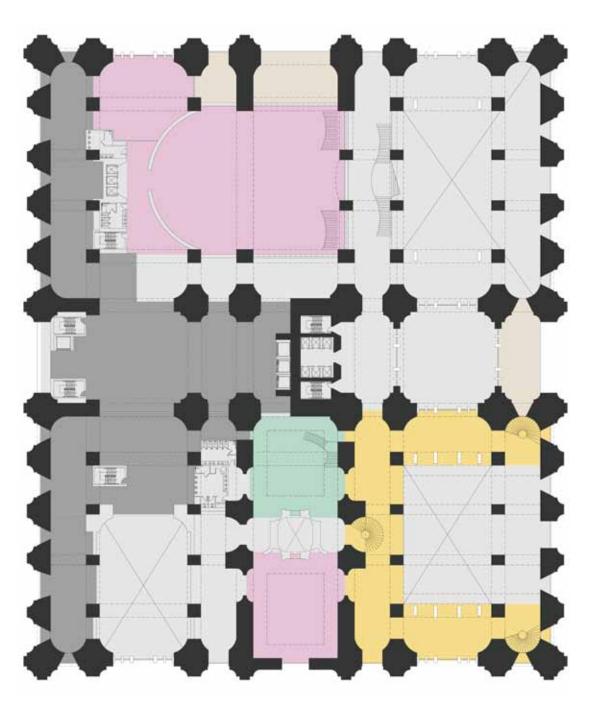
Section: 39th St to 41st St





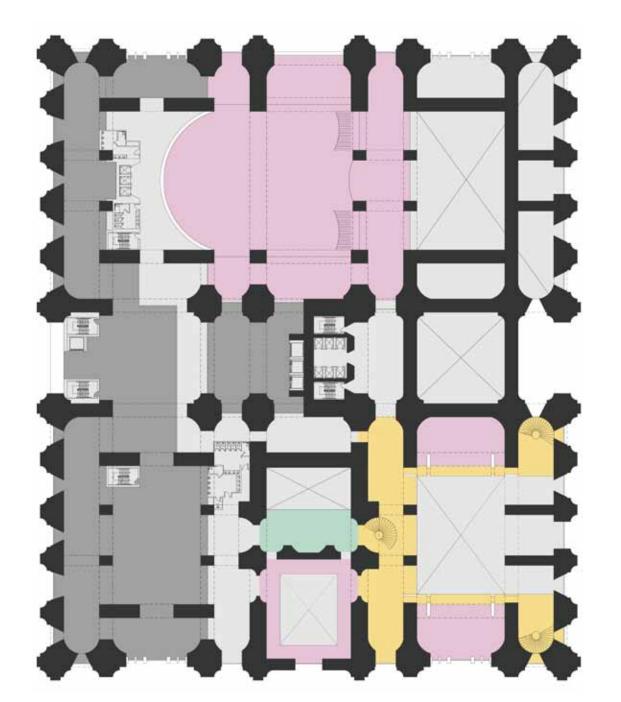
Lower Level: ADA Entrance

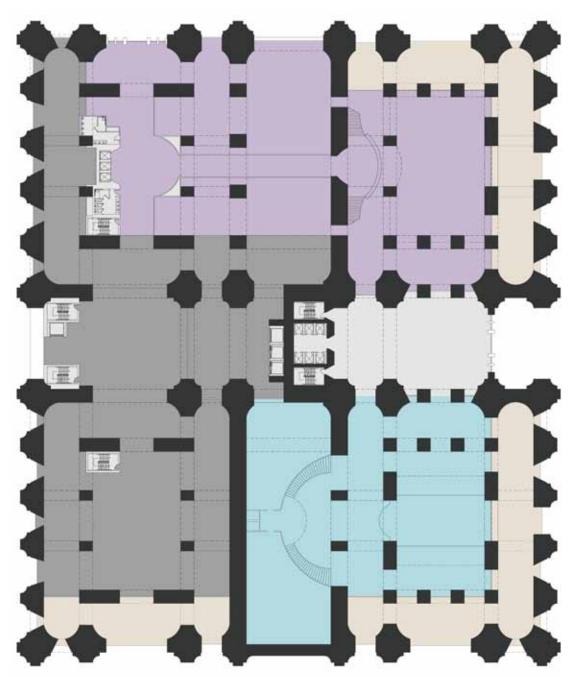




1st Floor: Lobby

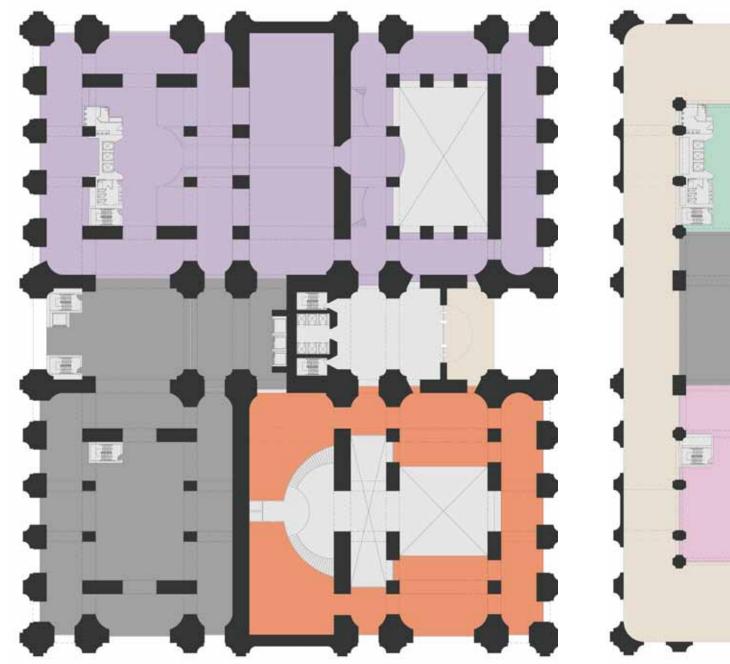
2nd Floor: Lobby Mezzanine + Ballroom

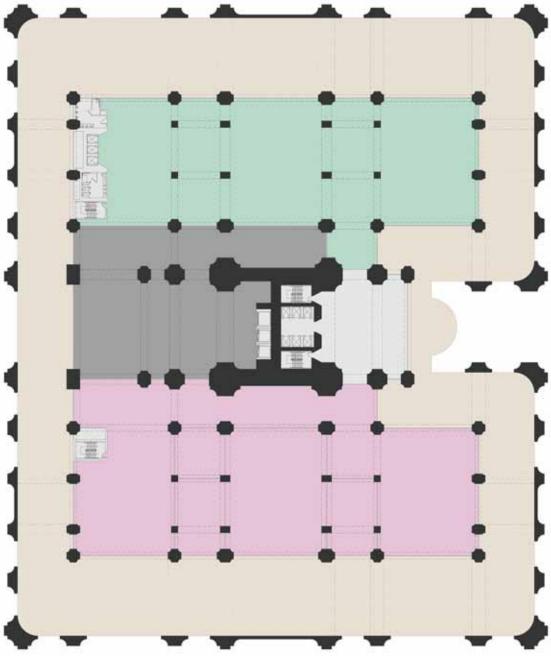




3rd Floor: Ballroom Mezzanine

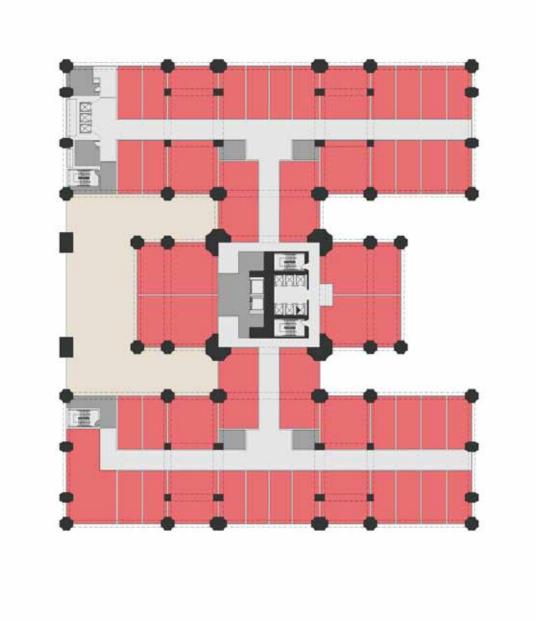
5th Floor: Pool + Spa

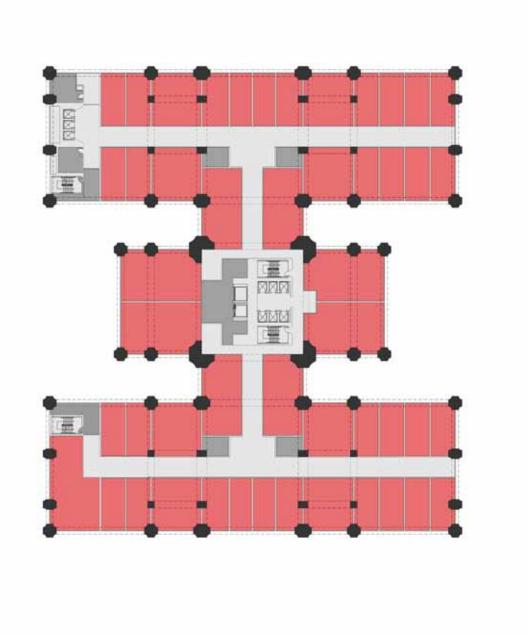




6th Floor: Gym + Spa

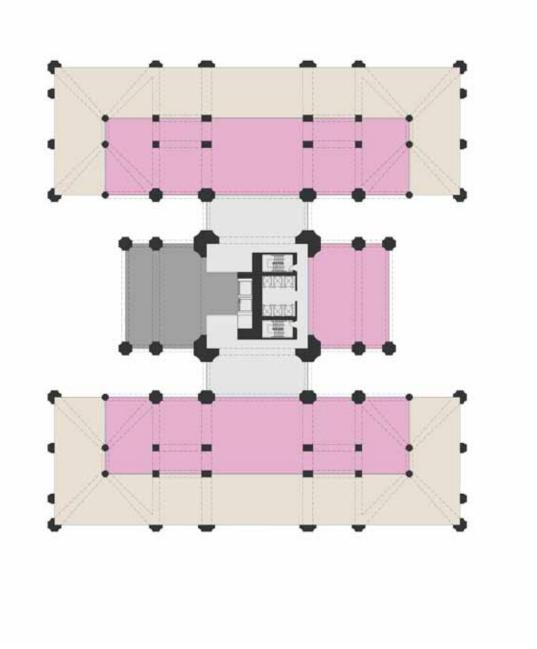
7th Floor: Concierge Level + Boardroom + Rooftop Restaurant/Bar

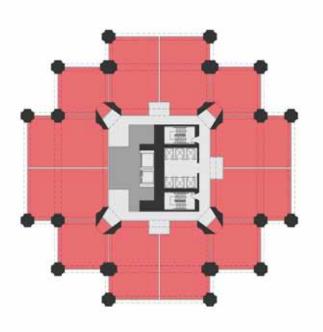




8th Floor: Guestrooms

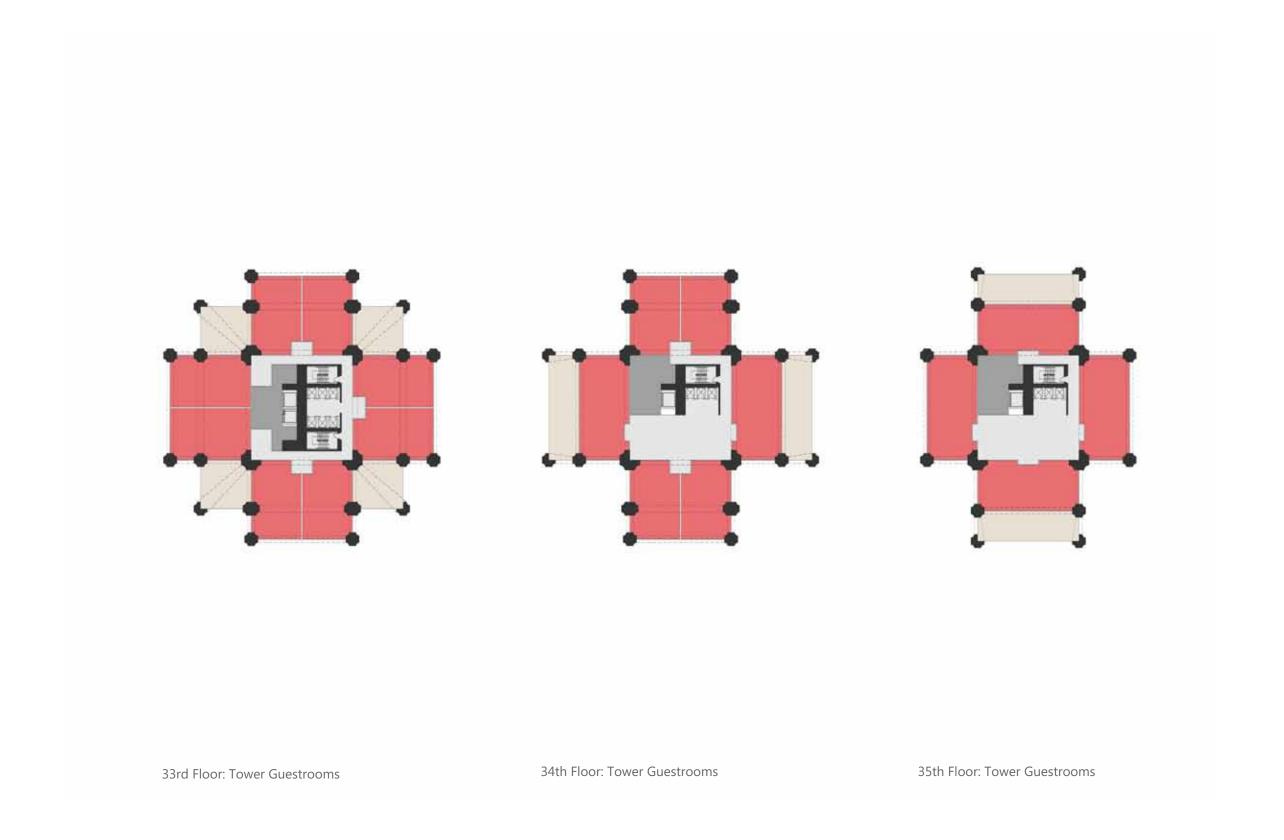
9th - 13th Floor: Guestrooms

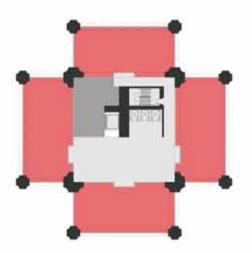


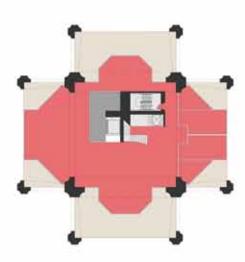


14th Floor: Meetings + Events

15th - 31st Floor: Tower Guestrooms



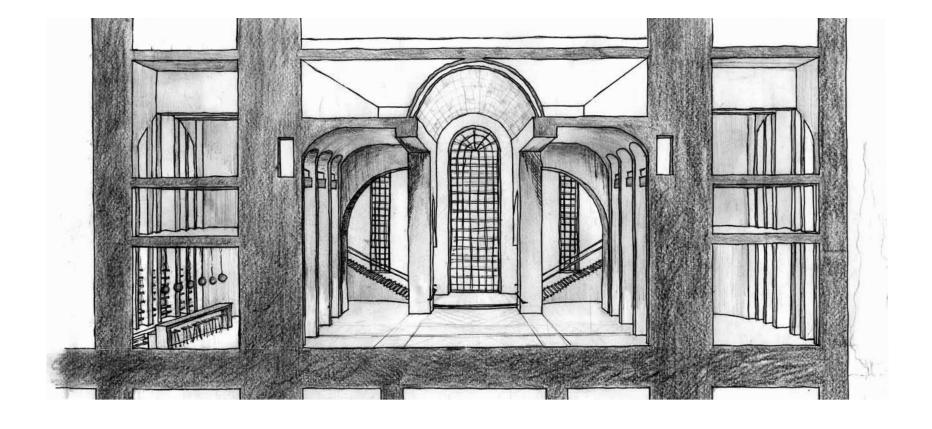






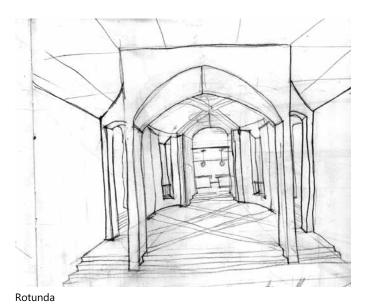
Choreographed Views

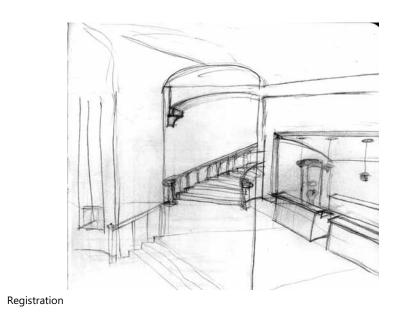
Each building offers a few precious moments where the architect can carefully arrange what a person sees as he or she moves through the sculpted spaces. The importance of these views may go unnoticed to many of the building's visitors. But, the few who perceive the carefully directed movements, the choreographed views, are awarded a glimpse into the architect's mind, and ultimately, the building's soul.

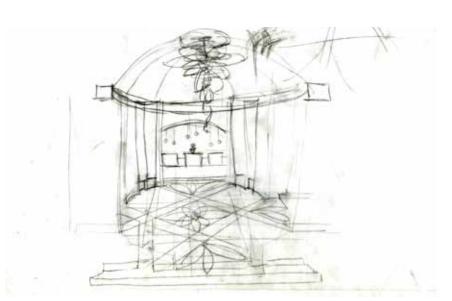


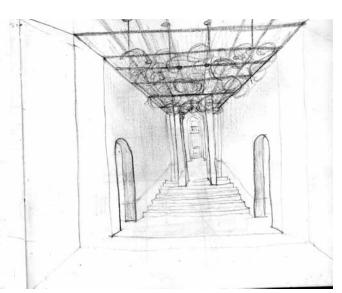
This Page: Section Perspective, Lobby Opposite Page + Page 52: Sketches, interior perspectives

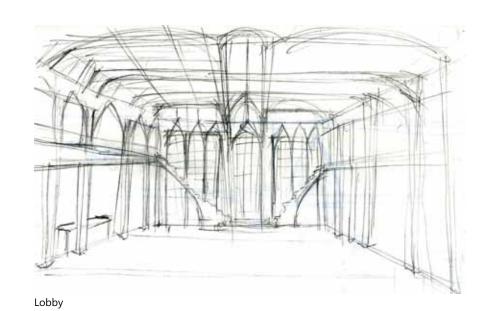






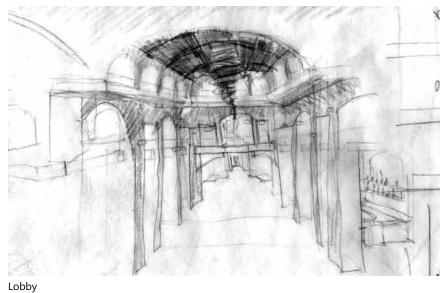


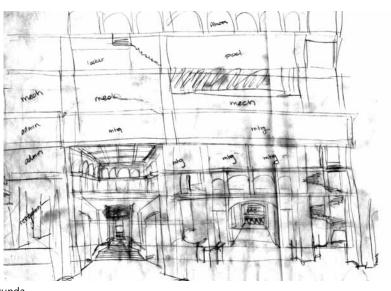




Rotunda

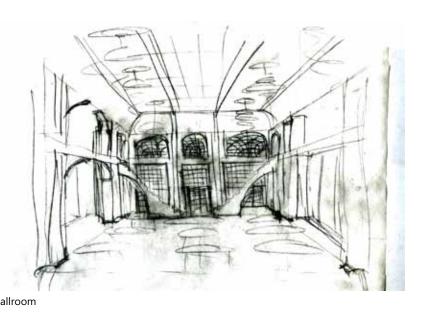
1st Ave Entrance

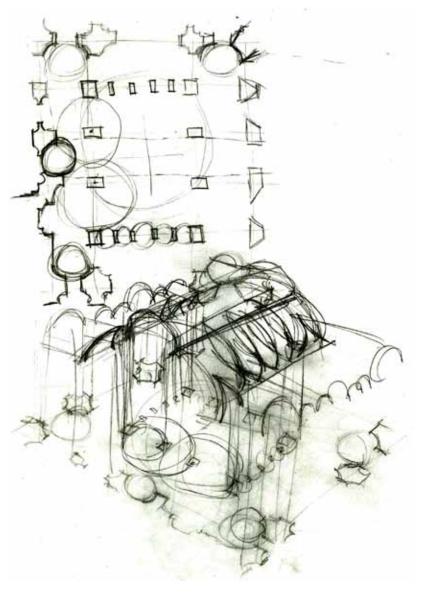




Rotunda



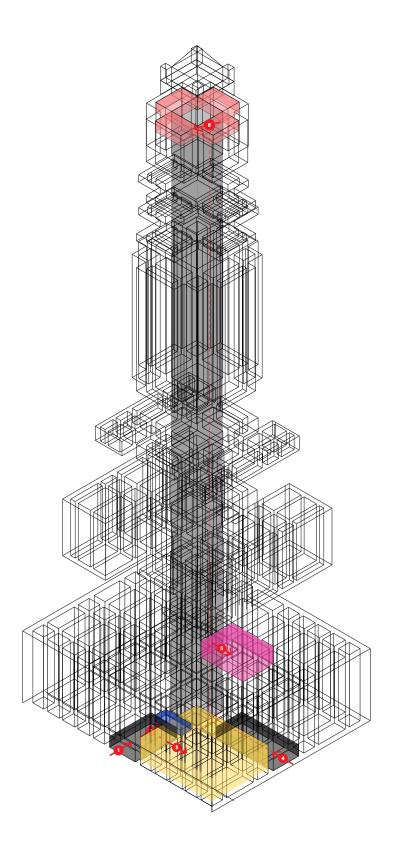


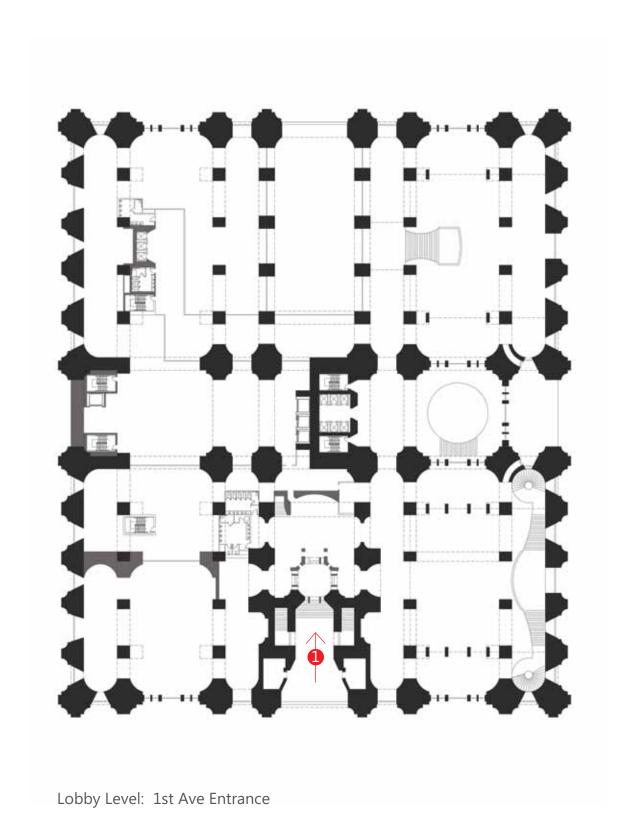


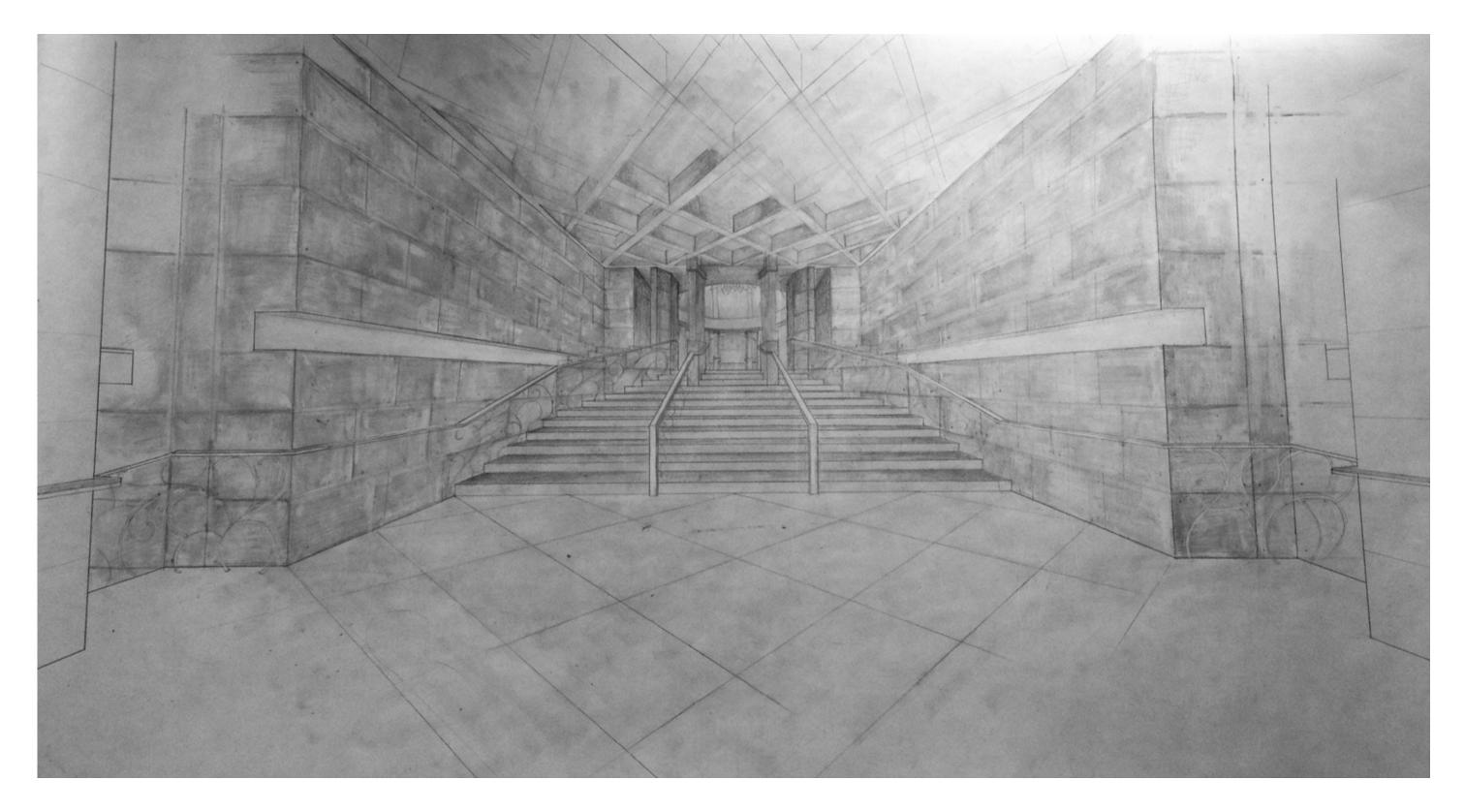
Lobby

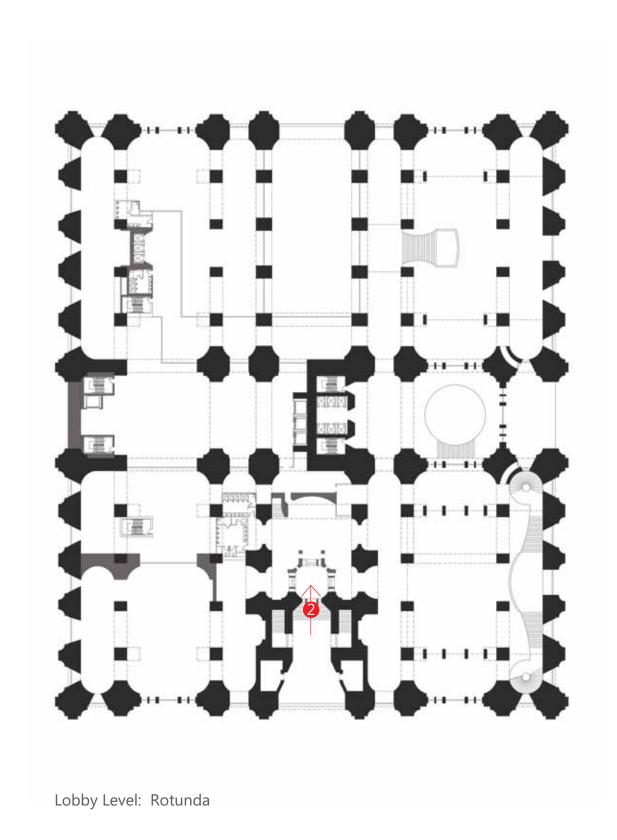
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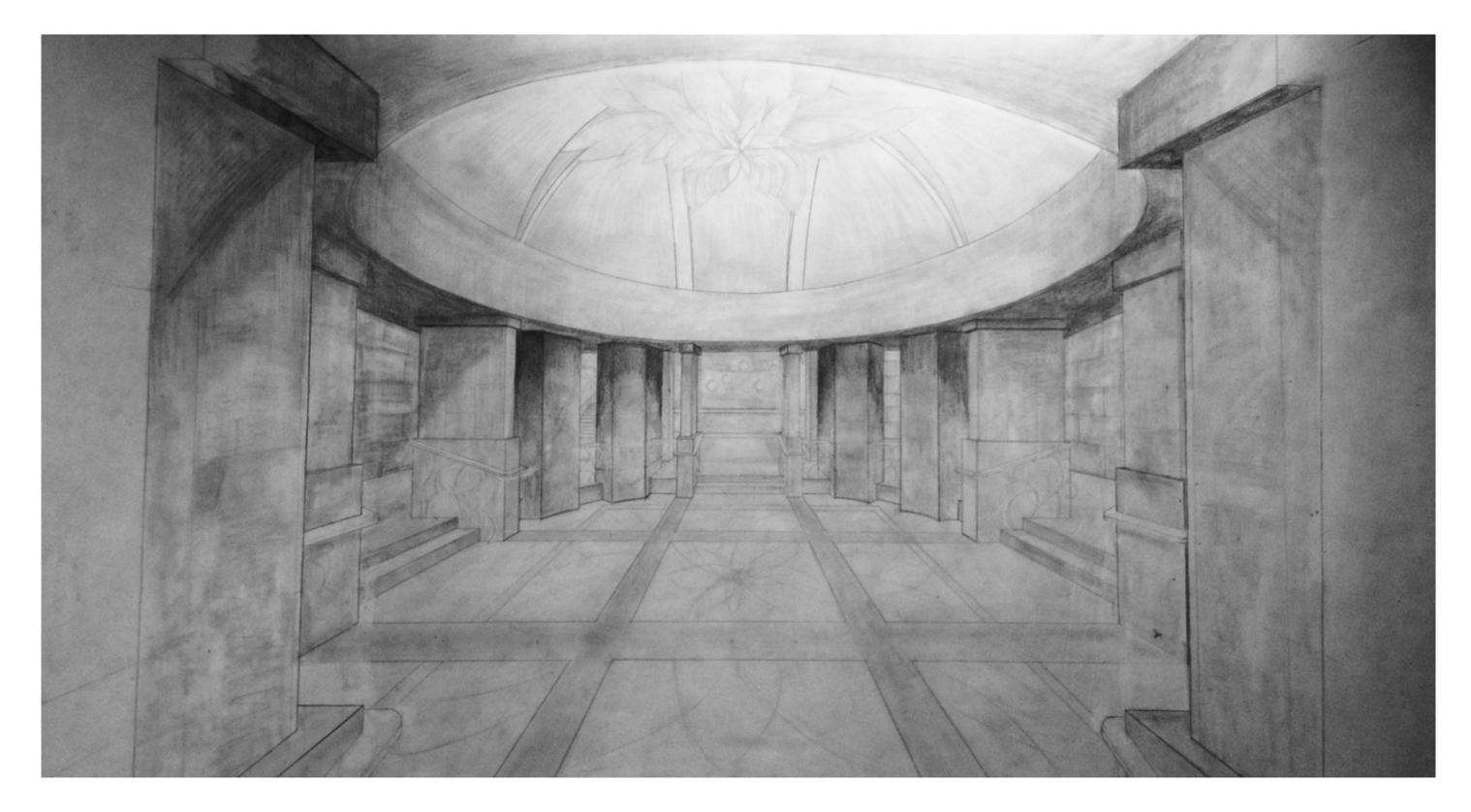
- 1st Ave Entrance
- Rotunda
- 1 Lobby
- Lower Level + Accessible Entrance
- Ballroom
- Penthouse Suite Entrance

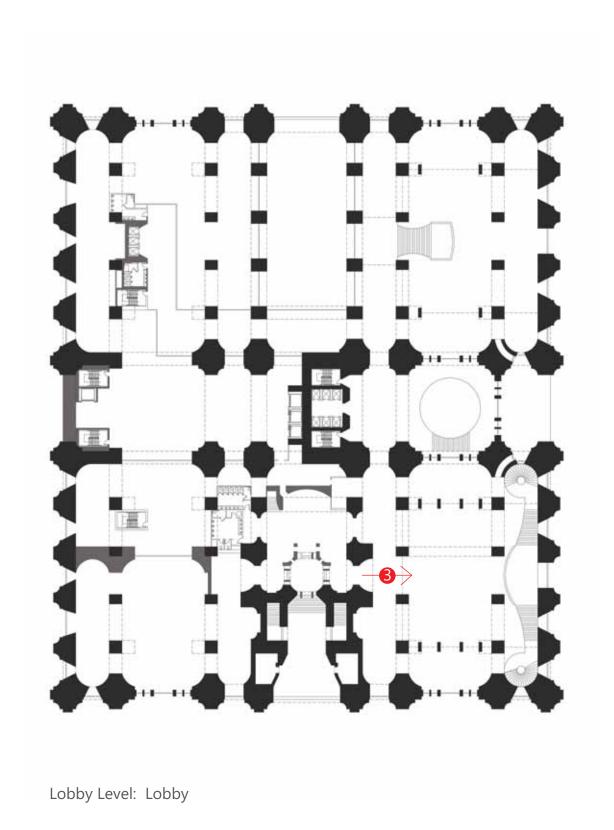




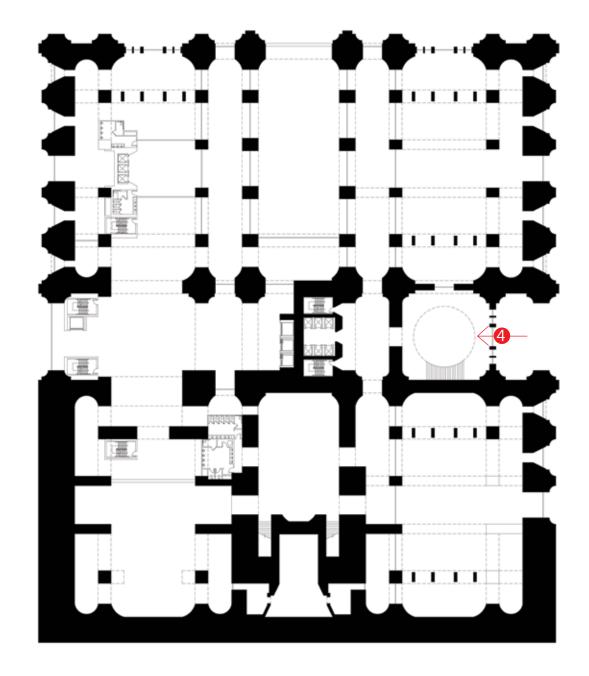




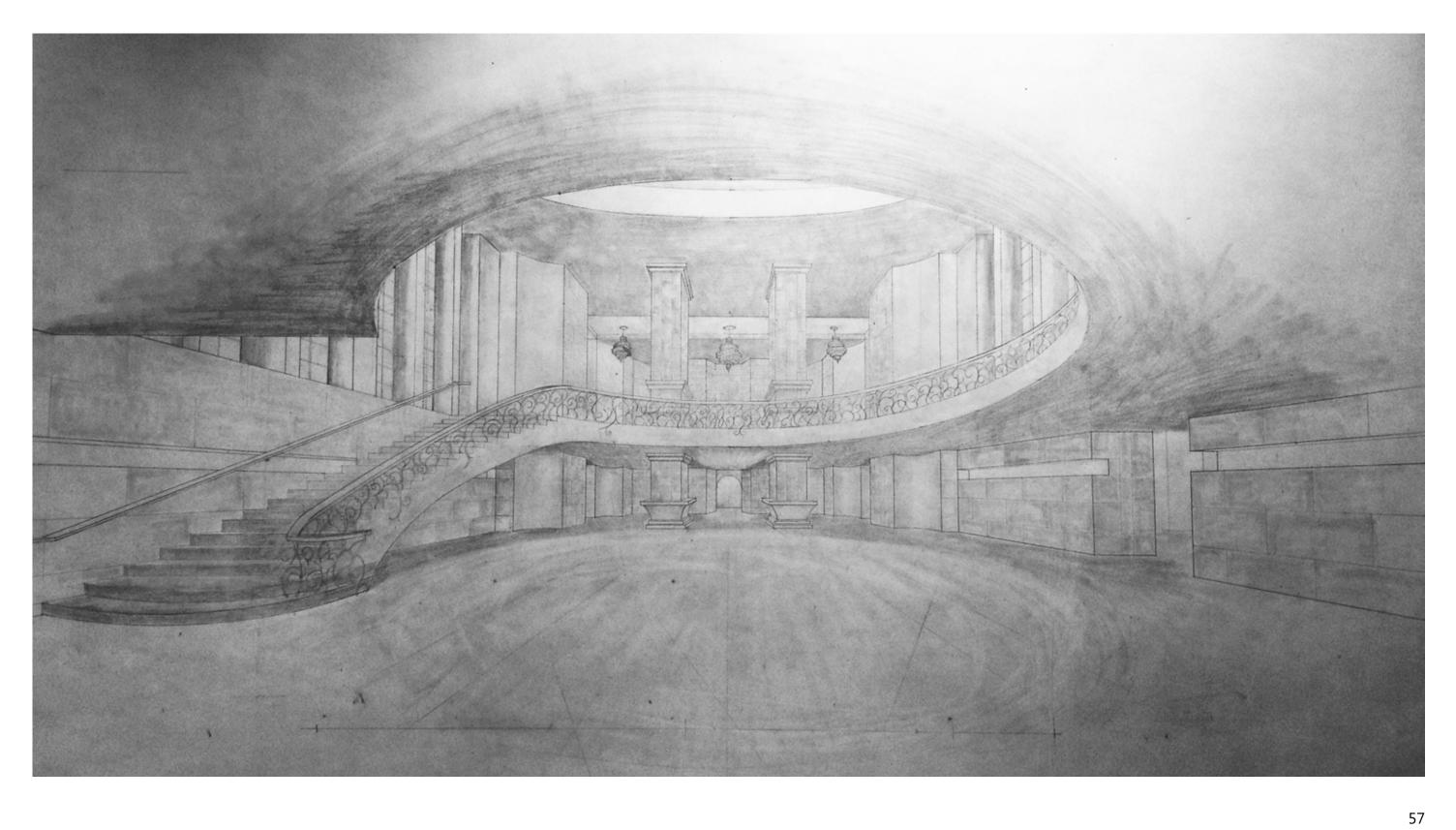


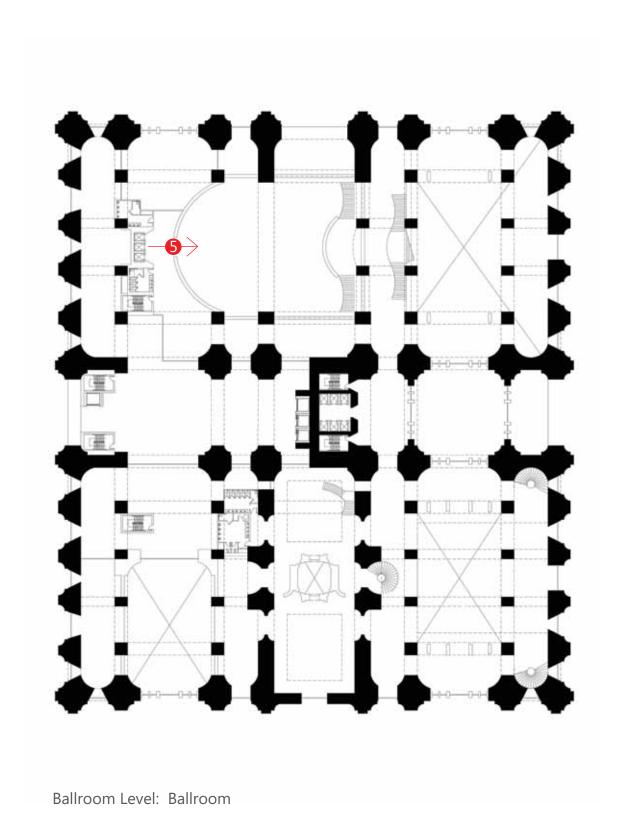


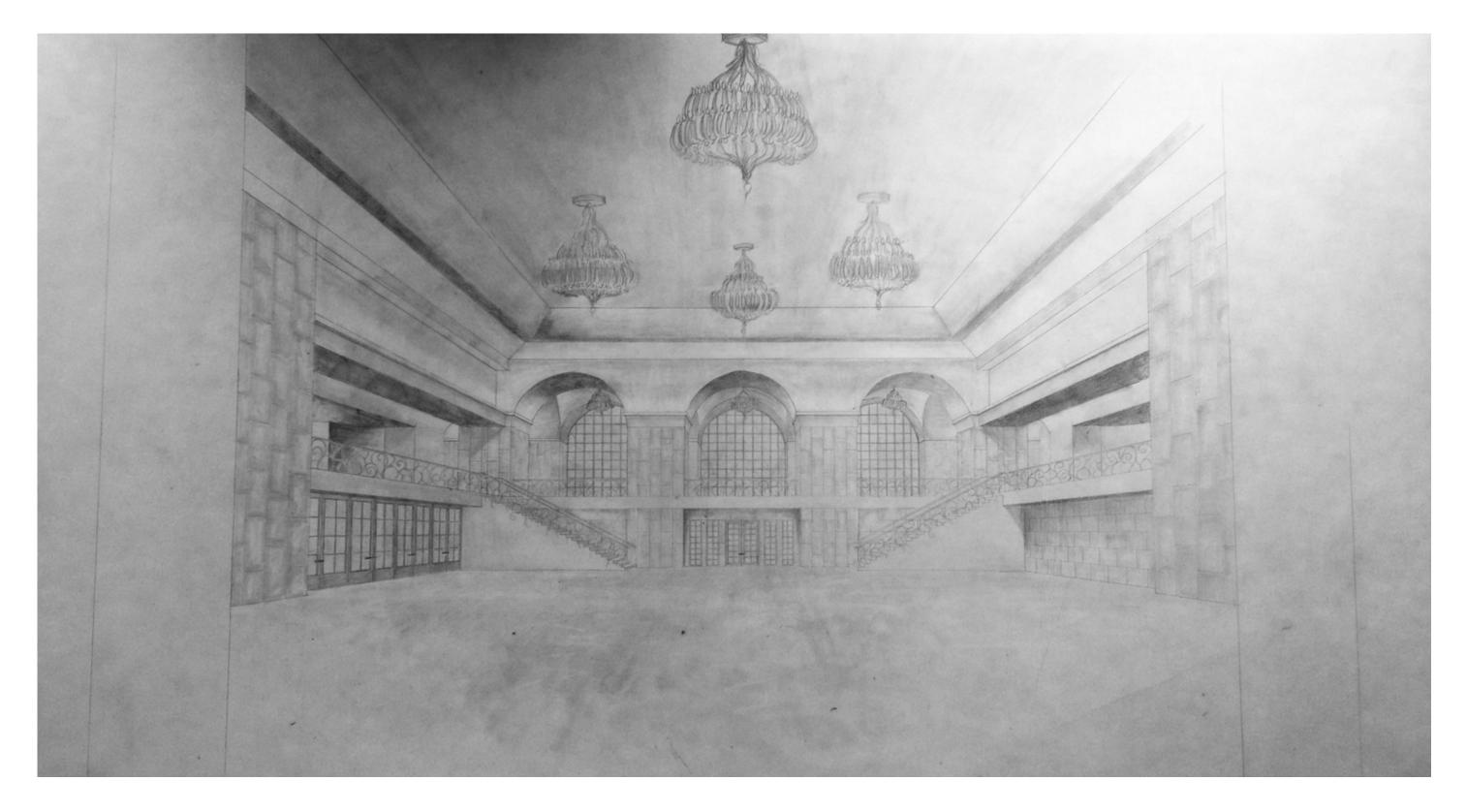


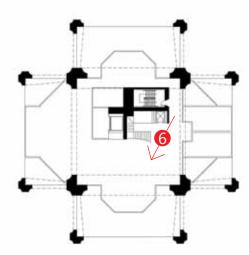


Lower Level: Accessible Entrance

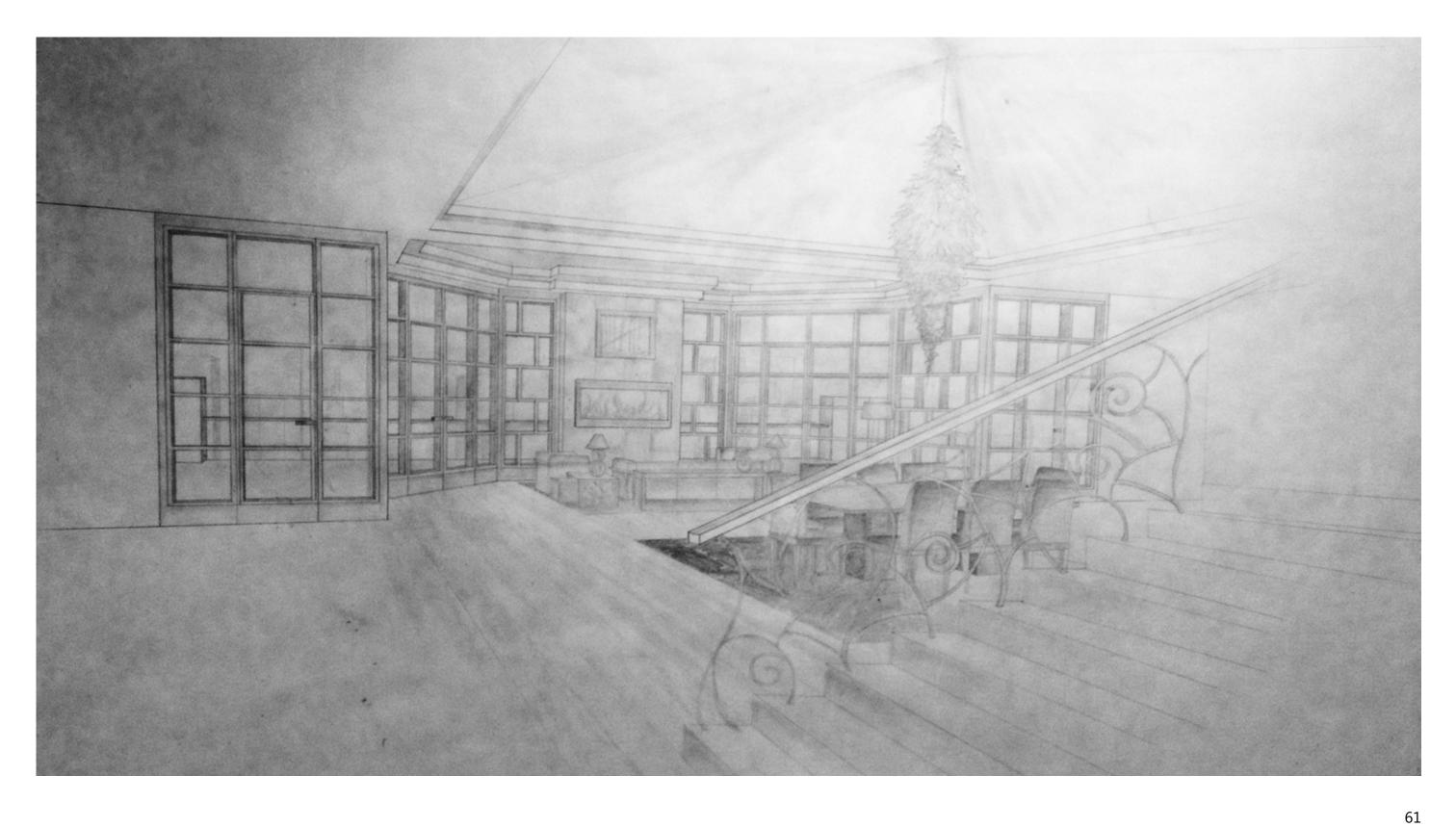








41st Floor - Penthouse Suite Entrance



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