

Mobile Maritime Center

Kristina Hamill
Arch 493 Master's Studio



Project Summary

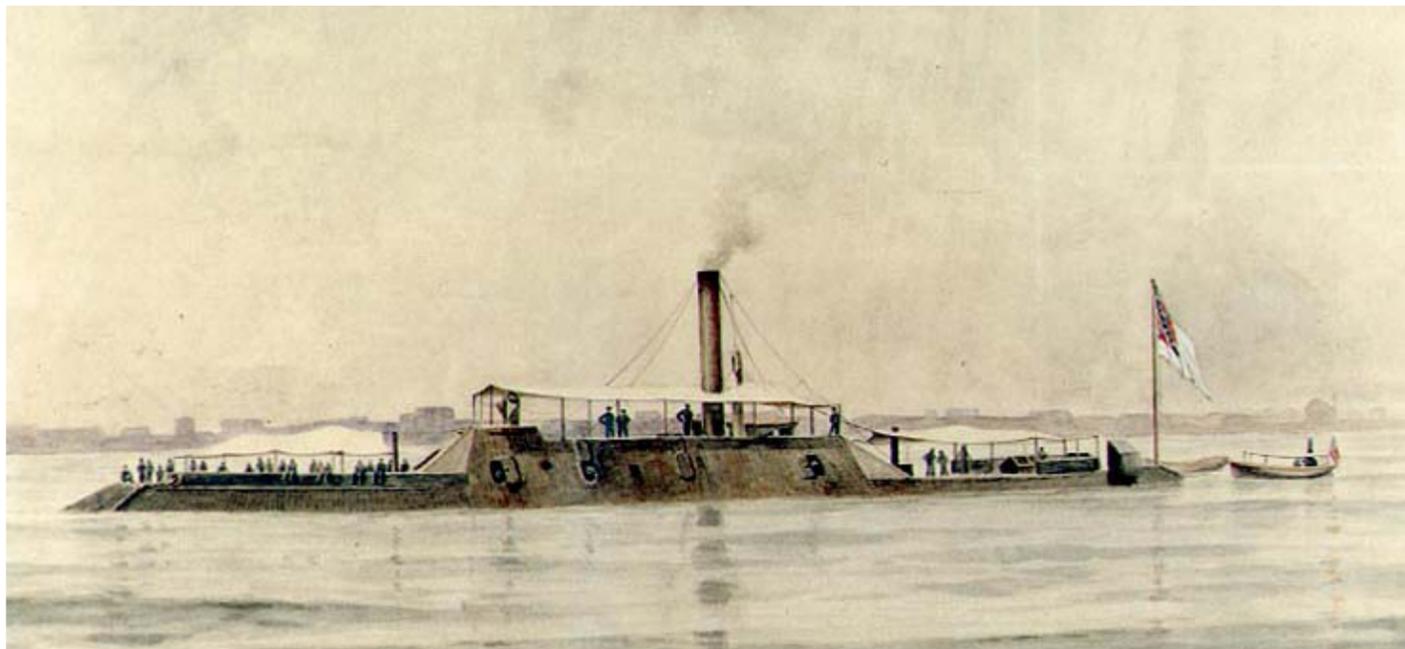
I'm a Yankee. I lived in Mobile, Alabama for three and half years before moving to Chicago and now that I'm here all I hear is how Southerners are so friendly, so hospitable, so open. But they aren't very open because they don't discuss their private lives with just anybody. This includes unfortunate or disgraceful events as part of things not to be discussed, such as the American Civil War. As a result, the contributions of Mobile's shipyards during the war have not been considered to the extent that they should be because ironclad construction is too closely tied to the Civil War. Mobile has built ships since its foundation but the need for ironclads during the Civil War sparked a level of interest in naval ship design that has continued to this day. The various Civil War battles have been recorded and preserved thoroughly but the construction of ironclads in the shipyards of Mobile has not. So I designed the Mobile Maritime Center to become a hub for information on ironclads constructed in Mobile.

One of the best means of education is through experiencing something as opposed to simply reading about it so the Maritime Center has a docked recreation of the CSS Tennessee for visitors to go aboard and see the interior. The Tennessee is an example of the typical ironclad built in Mobile but it was also the flagship of the ironclad fleet that defended Mobile in the Battle of Mobile Bay. Inside the center, is a large model of the exterior of the CSS Baltic, one of the sailing ships in Mobile that was converted to an ironclad early in the war. This model is large enough to allow people stand on it, examine the details of its construction, and imagine what sailing the ship might have been like.

The Maritime Center has also provided space to allow the H.L. Hunley which is currently in Charleston, South Carolina to return to Mobile. During the Civil War, the team of Horace Hunley, James McClintock, and Baxter Watson built three successfully operating submarines pairing up with the machine shop Park and Lyons to build the second sub and the Hunley. Although the shop no longer exists, the site of the shop is only three blocks north of the maritime center. Of the three subs built, the Hunley was the only sub to see combat, successfully sinking an enemy ship. Although very small and cramped, the Hunley was considered a marvel of engineering at the time. Despite using a different source of power from the Hunley, modern subs use many of the same design elements as the Hunley such as adjustable diving plances, balanced water ballast tanks, a cigar-shaped hull, and movable snorkel tubes that bring fresh air to the sub while it is underwater.

The Maritime Center offers flexible space for exhibits to reveal the activities of Mobile's shipyards and ironclads. The displays will include maps, plans, models, films, and other media as determined by the center's director.

Due to the hot and humid climate of Mobile, the building itself is constructed of durable materials: a concrete frame and interior finishes with an exterior aluminum cladding. Since Mobile is on the Gulf of Mexico, the building often will need to endure the side effects of hurricanes particularly flooding from storm surges with minimal repairs.



A. Ships

1.00 Ships	Qty.	Length (ft)	Beam (ft)	Draft (ft)	Notes	
1.01 H.L. Hunley	1	39.5	3.8	3.8	restored original	
1.02 CSS Tennessee	1	209.0	48.0	14.0	recreated full size	
1.03 CSS Baltic	1	186.0	38.0	6.4	large, scaled model	
1.04 HMS Warrior	1	418.0	58.3	26.0	type #1 - ironclad frigate	small, scaled model
1.05 USS Galena	1	210.0	36.0	11.0	type #2 - ironclad sloop	small, scaled model
1.06 HMS Wivern	1	224.5	42.3	15.5	type #3 - ironclad turret ship	small, scaled model
1.07 USS New Ironsides	1	230.0	57.5	15.7	type #4 - broadside ironclad	small, scaled model
1.08 CSS Manassas	1	143.0	33.0	17.0	type #5 - ironclad ram	small, scaled model
1.09 CSS Nashville	1	271.0	62.5	10.8	type #6 - ironclad sidewheel ram	small, scaled model
1.10 CSS Virginia	1	275.0	38.6	22.0	type #7 - ironclad casement ram	small, scaled model
1.11 CSS Georgia	1	250.0	60.0	—	type #8 - ironclad floating battery	small, scaled model
1.12 USS Cairo	1	175.0	51.2	6.0	type #9 - ironclad river gunboat	small, scaled model
1.13 USS Glide	1	160.0	—	—	type #10 - tinclad	small, scaled model
1.14 USS Tyler	1	180.0	45.3	6.0	type #11 - timberclad	small, scaled model
1.15 CSS Governor Moore	1	236.0	38.0	7.0	type #12 - cottonclad	small, scaled model
1.16 USS Winona	1	158.7	28.0	10.5	type #13 - mortar boat	small, scaled model

B. Spaces

2.00 Gallery	Qty.	Net S.F.	Total Net S.F.	Capacity	Notes
2.01 First floor gallery	1	23,390	23,390	1,559	
2.02 Second floor gallery	1	3,216	3,216	214	H.L. Hunley location
2.03 Third Floor	1	3,216	3,216	214	
2.04 Film presentation	1	644	644	43	
2.05 Connections	4	198	792	113	
			31,258	2,144	

3.00 Visitor Services	Qty.	Net S.F.	Total Net S.F.	Capacity	Notes
3.01 Lobby & welcome desk	1	1,116	1,116	159	
3.02 Men's room	1	391	391	0	13 stalls
3.03 Women's room	1	758	758	0	25 stalls
3.04 Gift shop	1	644	644	11	
			2,909	170	

4.00 Administration	Qty.	Net S.F.	Total Net S.F.	Capacity	Notes
4.01 Director's office	1	200	200	2	
4.02 Assistant's office	1	136	136	1	
4.03 Secretary	1	193	193	2	reception, xerox machine, storage files
4.04 Employee storage	1	62	193		
4.05 Exhibit storage	1	226	226	2	large item display storage
4.06 Catering	1	90	90	1	catering - refrigerator, sink
			1038	8	

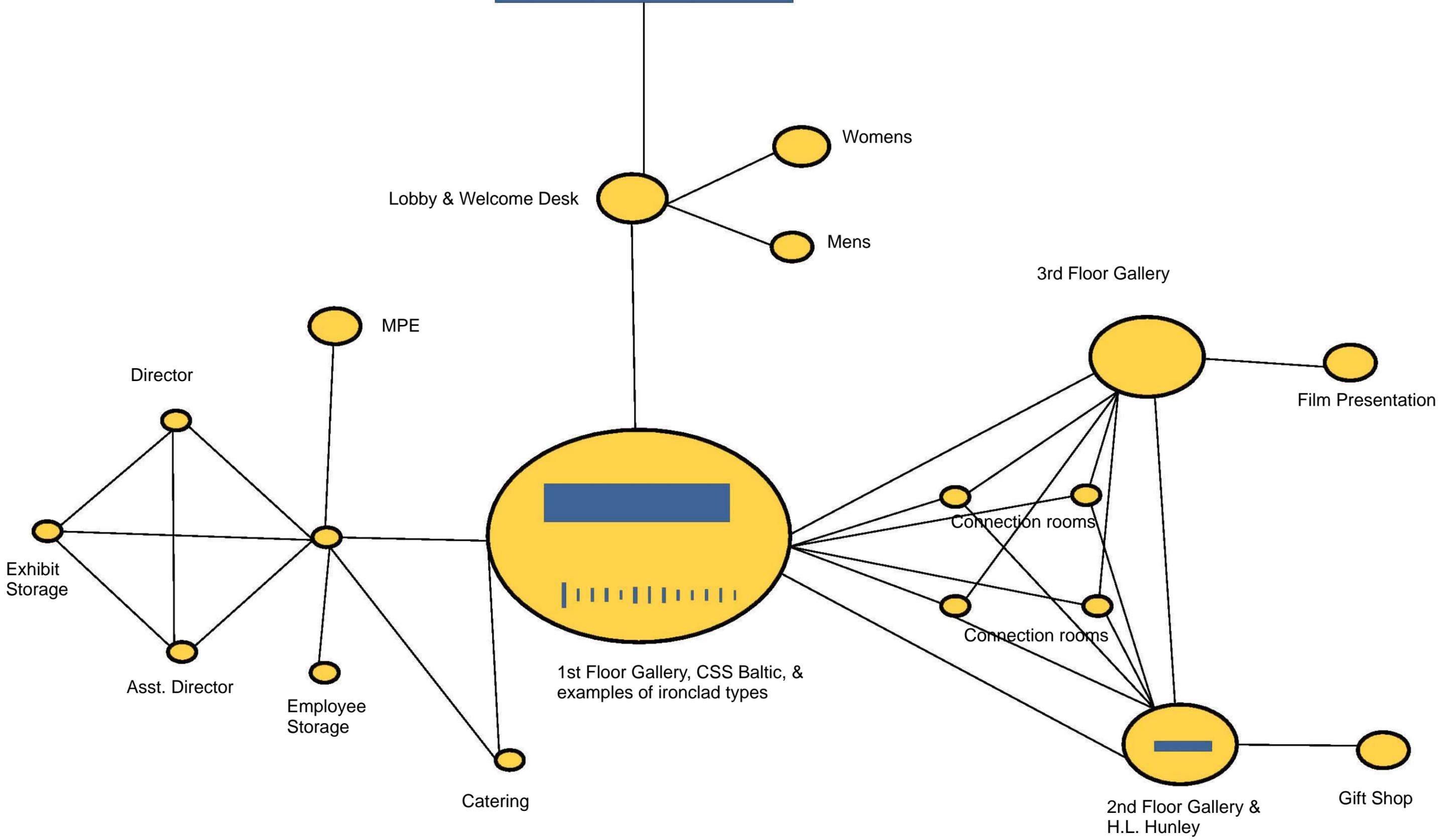
5.00 Building Support	Qty.	Net S.F.	Total Net S.F.	Capacity	Notes
5.01 MPE	1	627	627	6	air handlers, hot water heater
5.02 Custodial	1	49	49	0	janitor
			676	7	

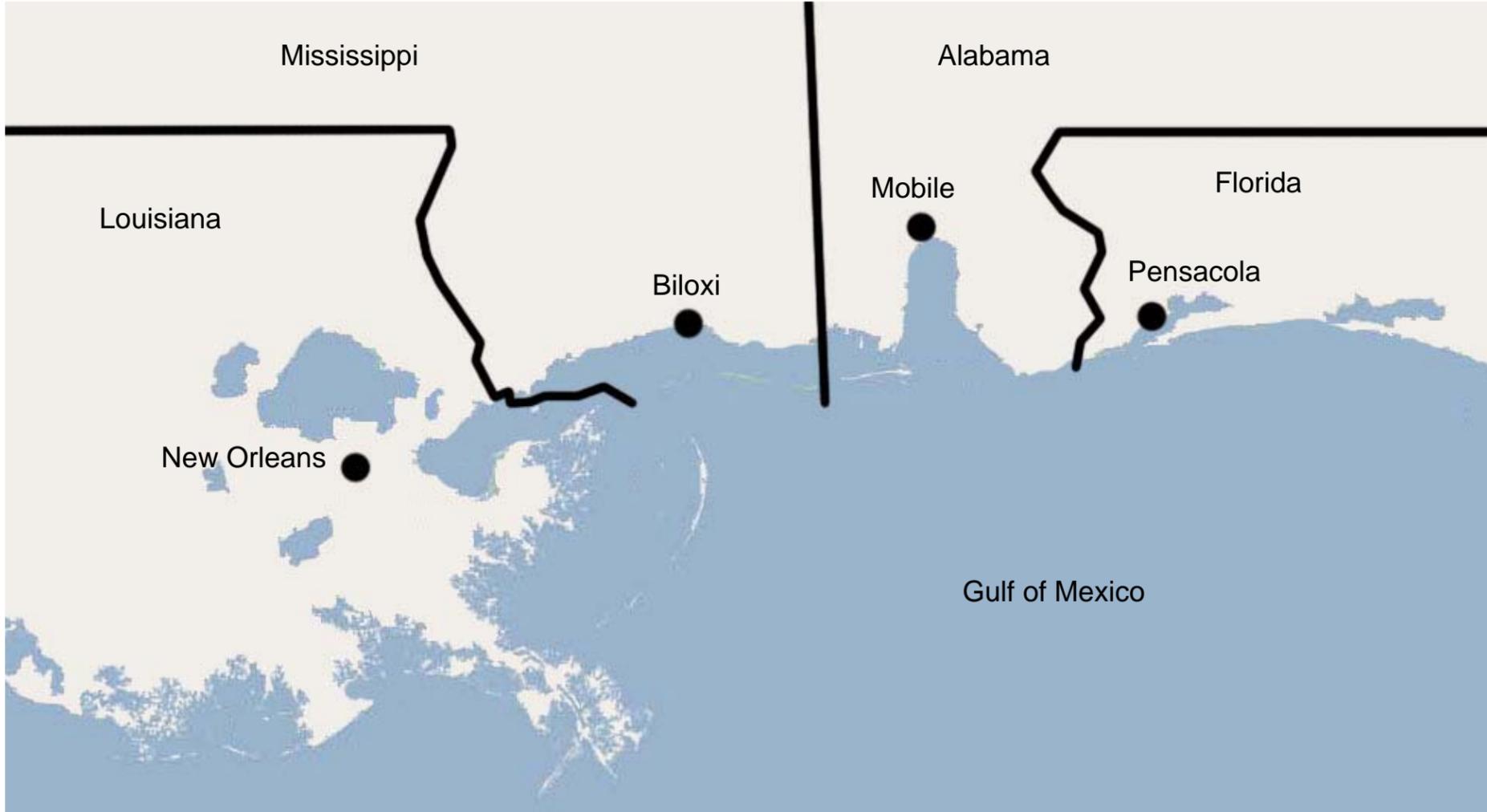
NET AREA TOTAL	Total Net S.F.	Capacity
	35,881	2,330

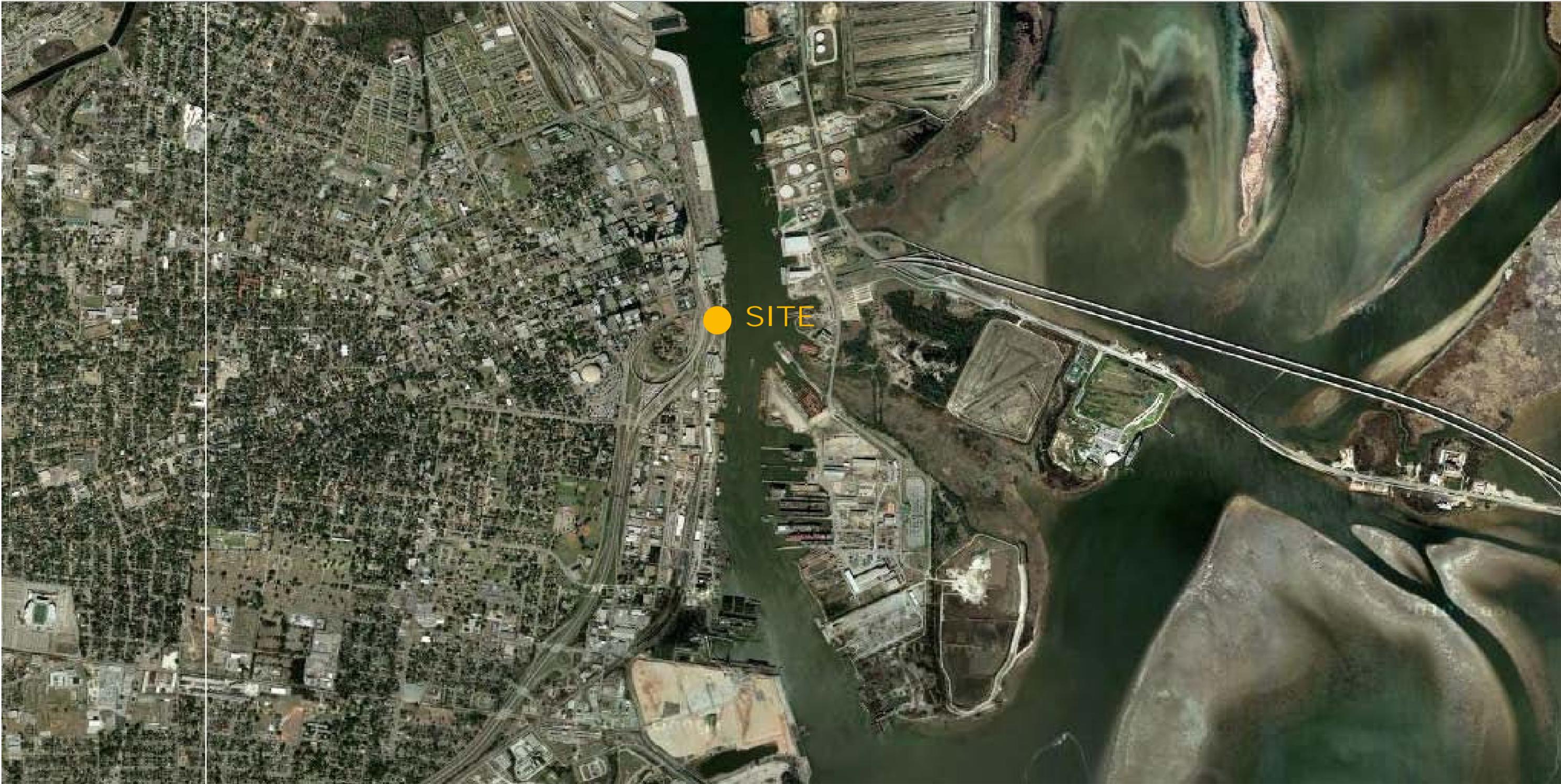
	1.25
GROSS AREA ESTIMATE	44,851



CSS Tennessee





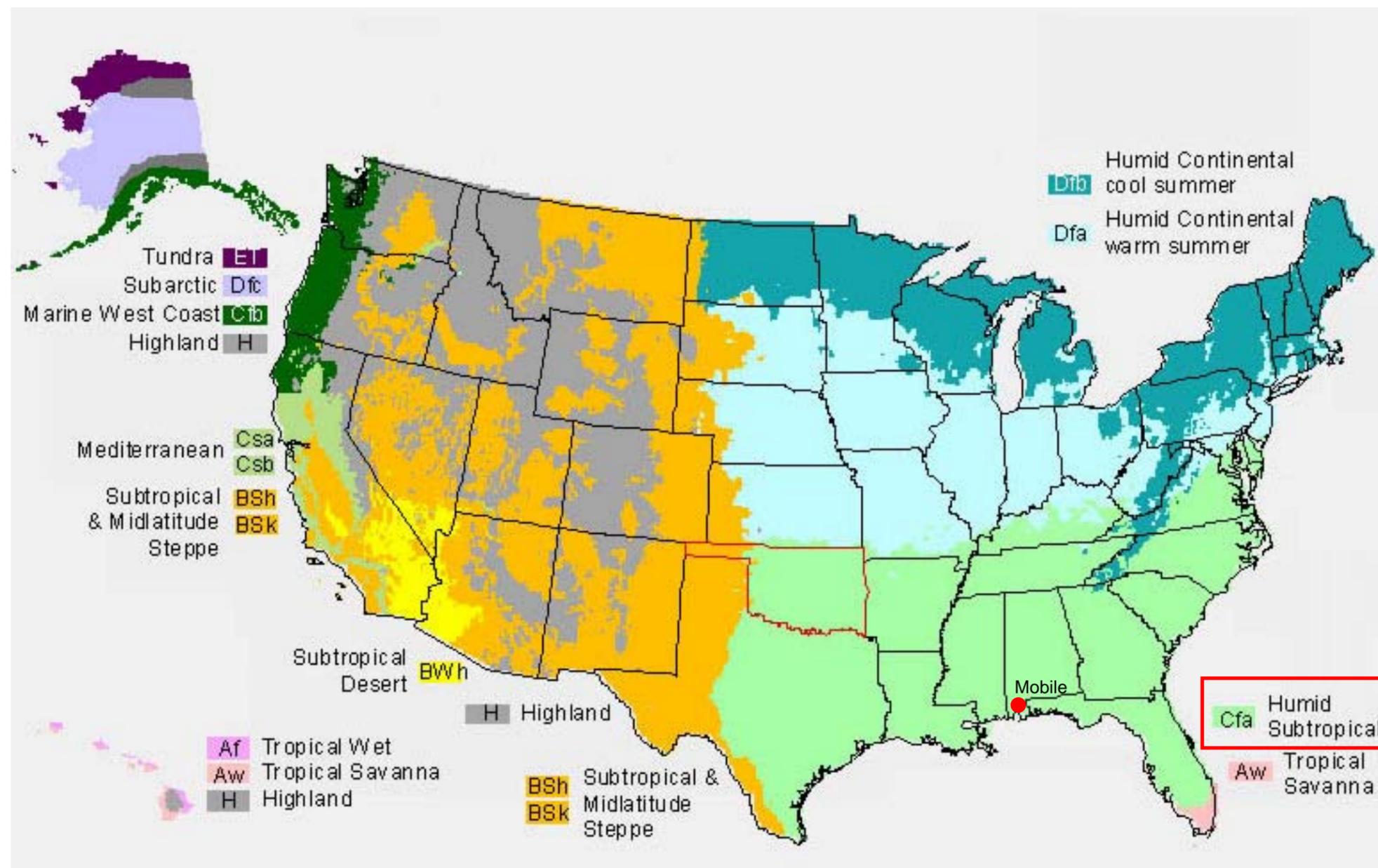


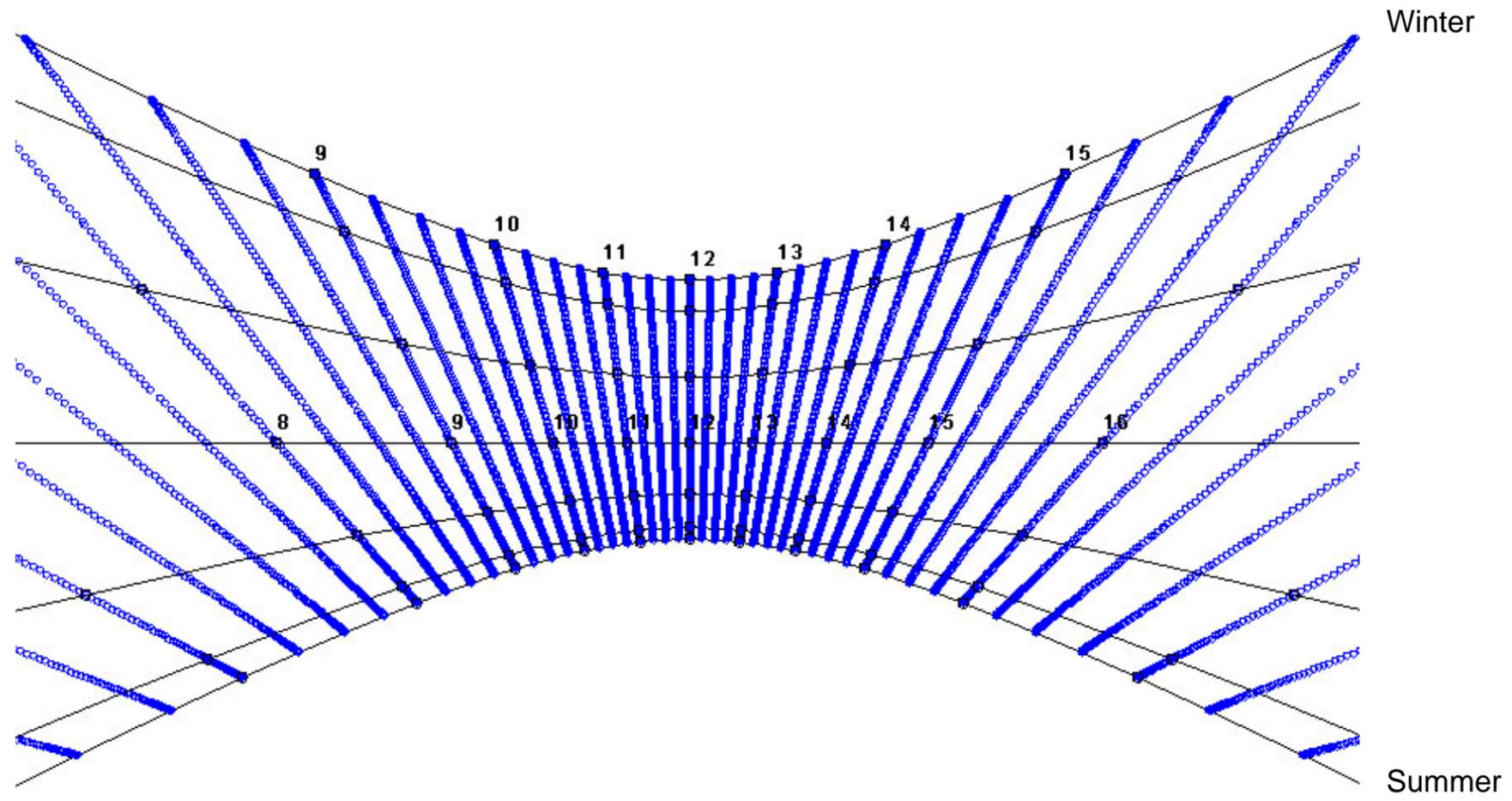
Temperatures:

Average Low: 40 deg. F
Average High: 93 deg. F

Humidity

Average RH: 65%
Typical High: 90%





Location	Average Rainfall (in)
1. Mobile, AL	66.9
2. Pensacola, FL	64.6
3. New Orleans, LA	63.9
4. West Palm Beach, FL	62.5
5. Lafayette, LA	61.8
6. Baton Rouge, LA	61.7
7. Miami, FL	61.5
8. Port Arthur, TX	60.8
9. Tallahassee, FL	60.5
10. Lake Charles, LA	58.2



Beal-Gaillard House
Style: Creole Cottage
Built: 1836



Bragg-Mitchell Mansion
Style: Greek Revival (antebellum)
Built: 1855



Dauphin St.
Historical Downtown Mobile



Mobile City Hospital
Style: Greek Revival
Built: 1830



USS Alabama (WWII)
Battleship Alabama Memorial Park

RSA Battlehouse Tower



Arthur R. Outlaw Conventiion Center



Museum of Mobile



Gulf Coast Exploreum

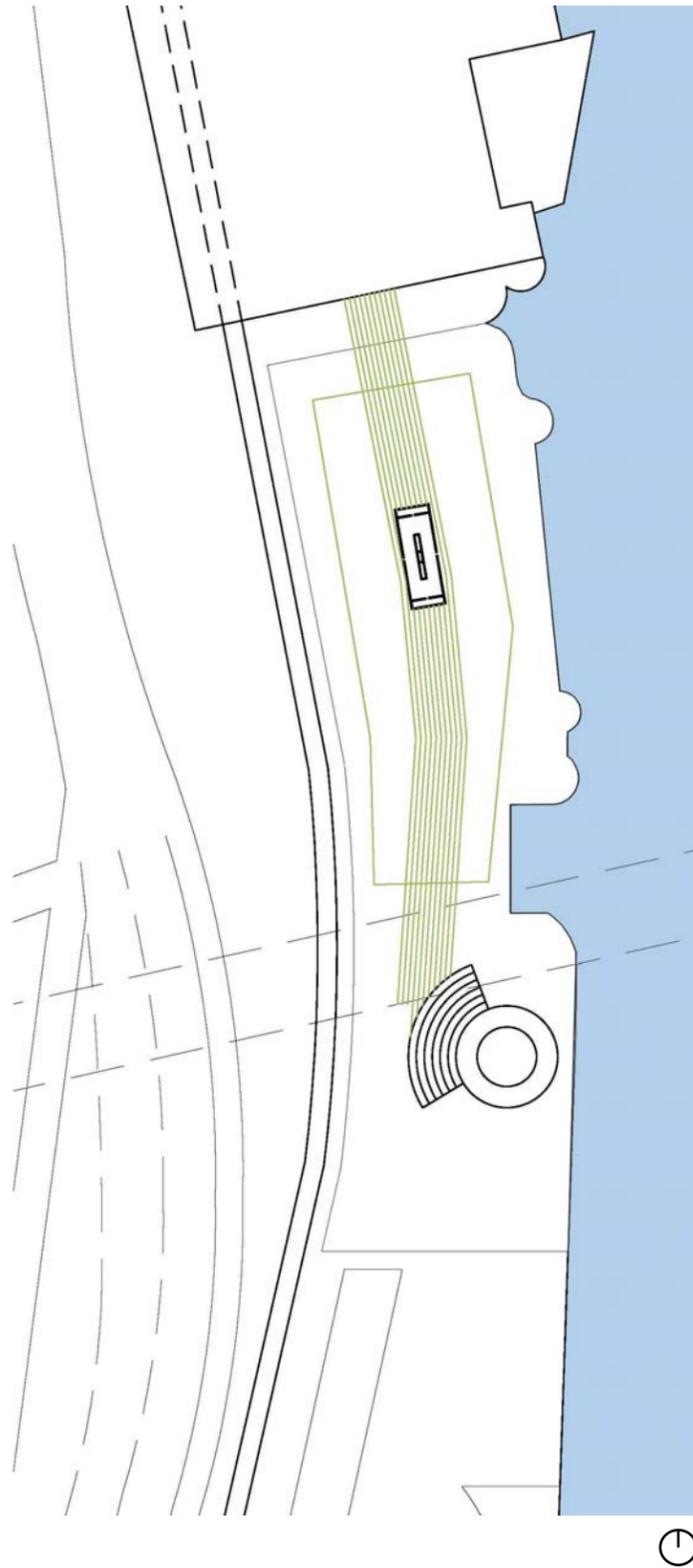


Fort Conde

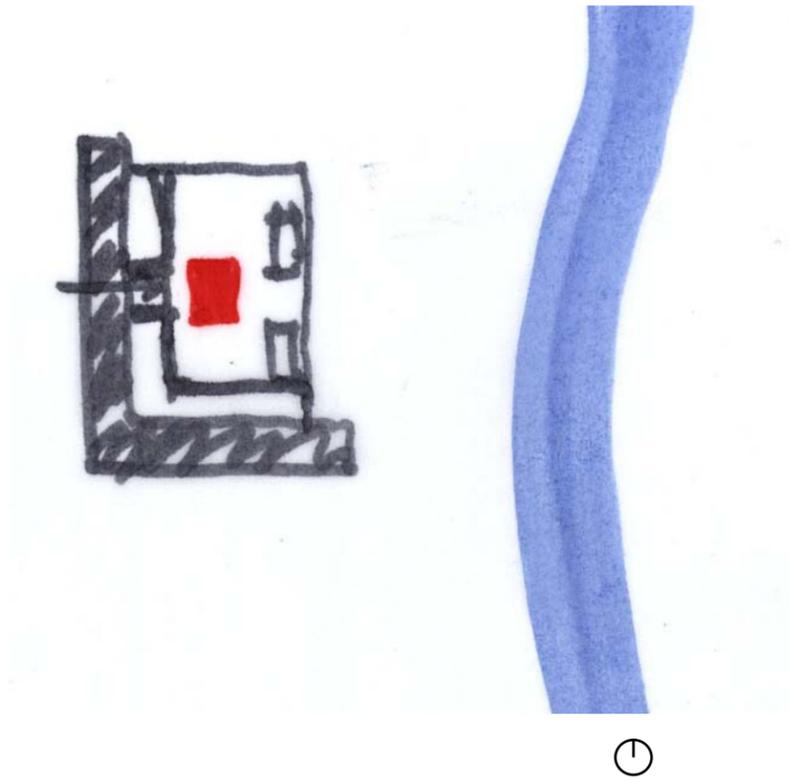


Austal

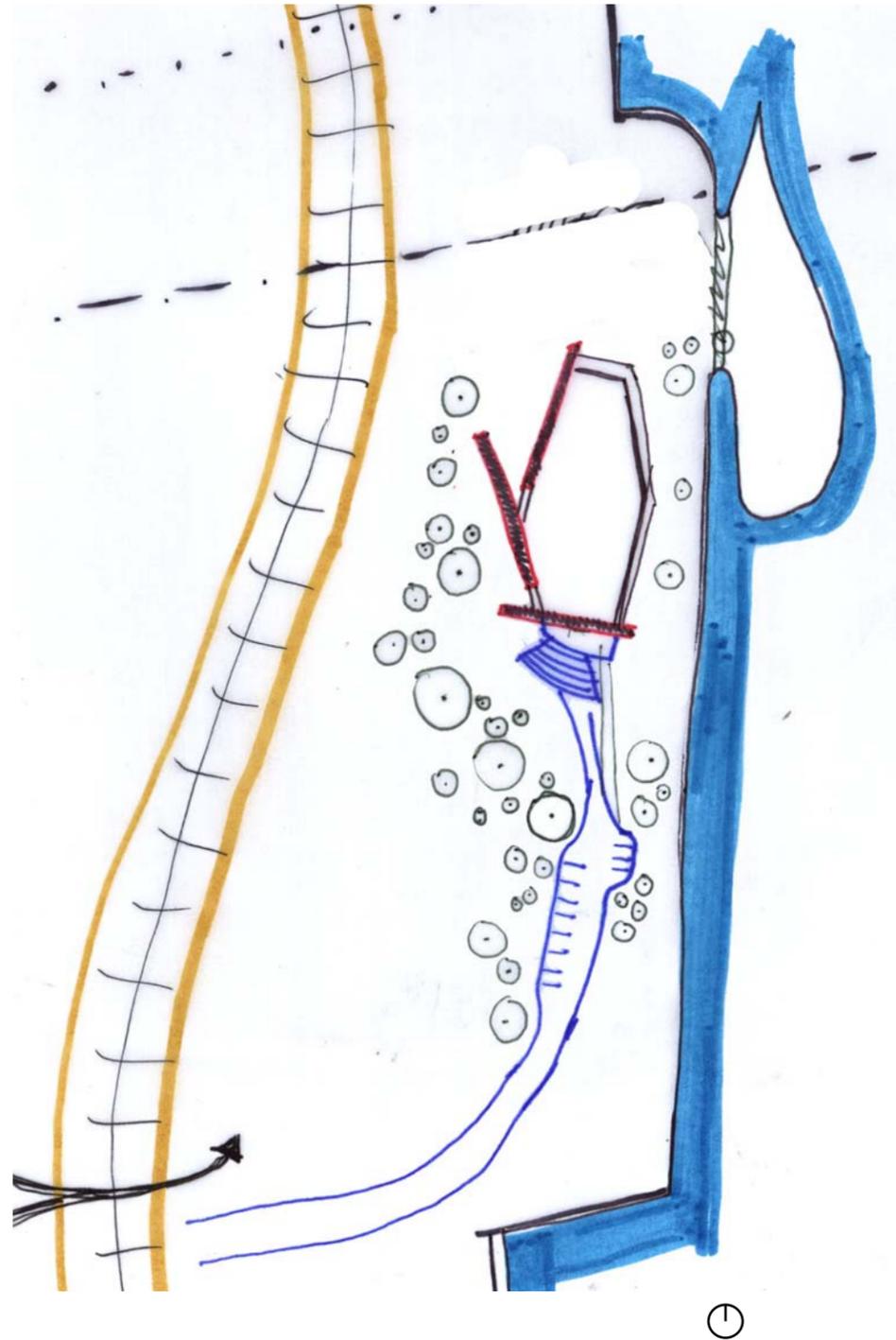




Open view to river

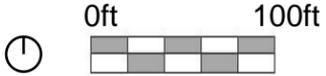


Open view to river
Block unpleasant views to west and south
Block hot light from west and south



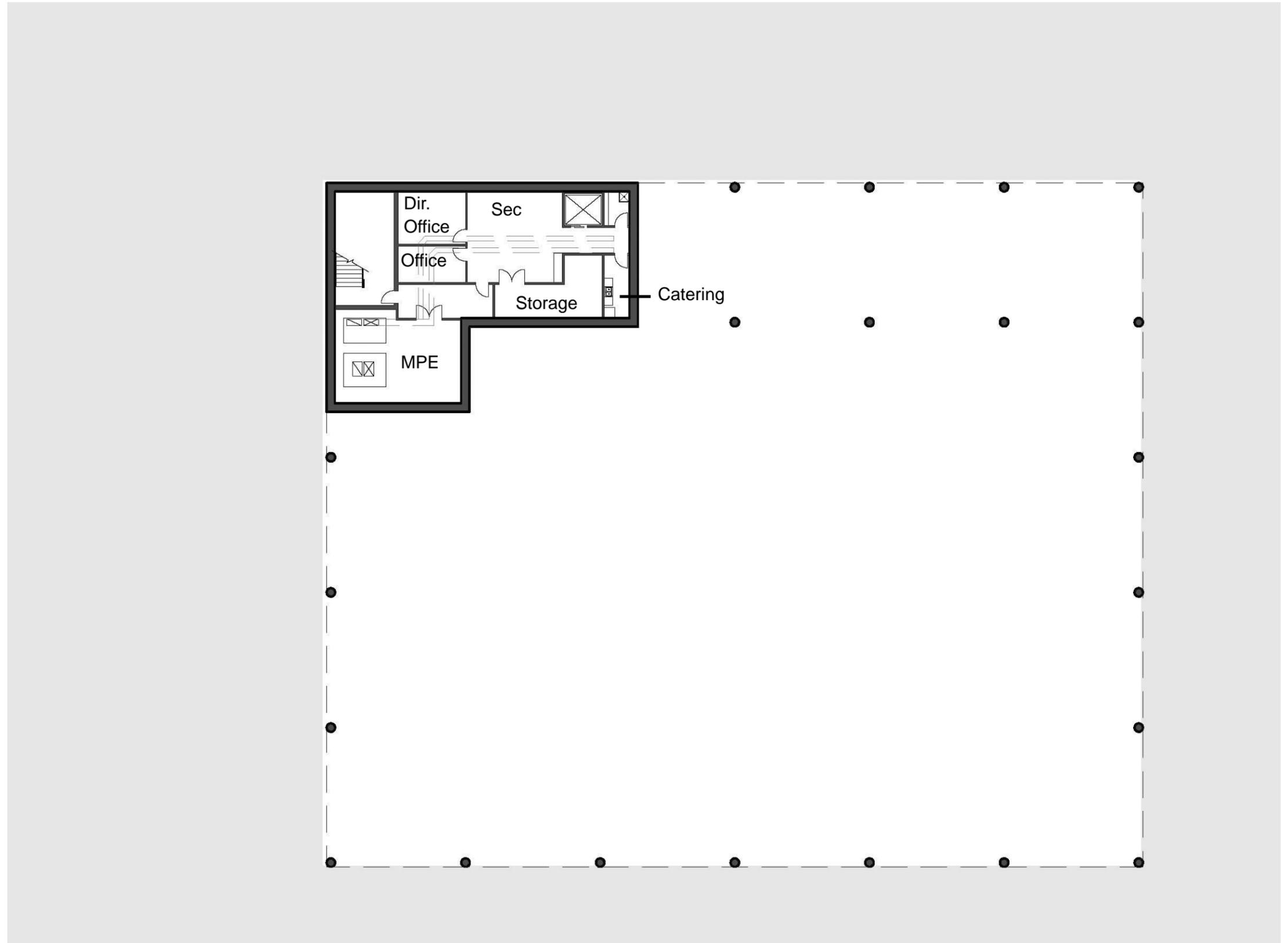
Open view to river
Block unpleasant views to west and south
Block hot light from west and south
Shade west and south walls
Allow select views through west wall

Site Plan



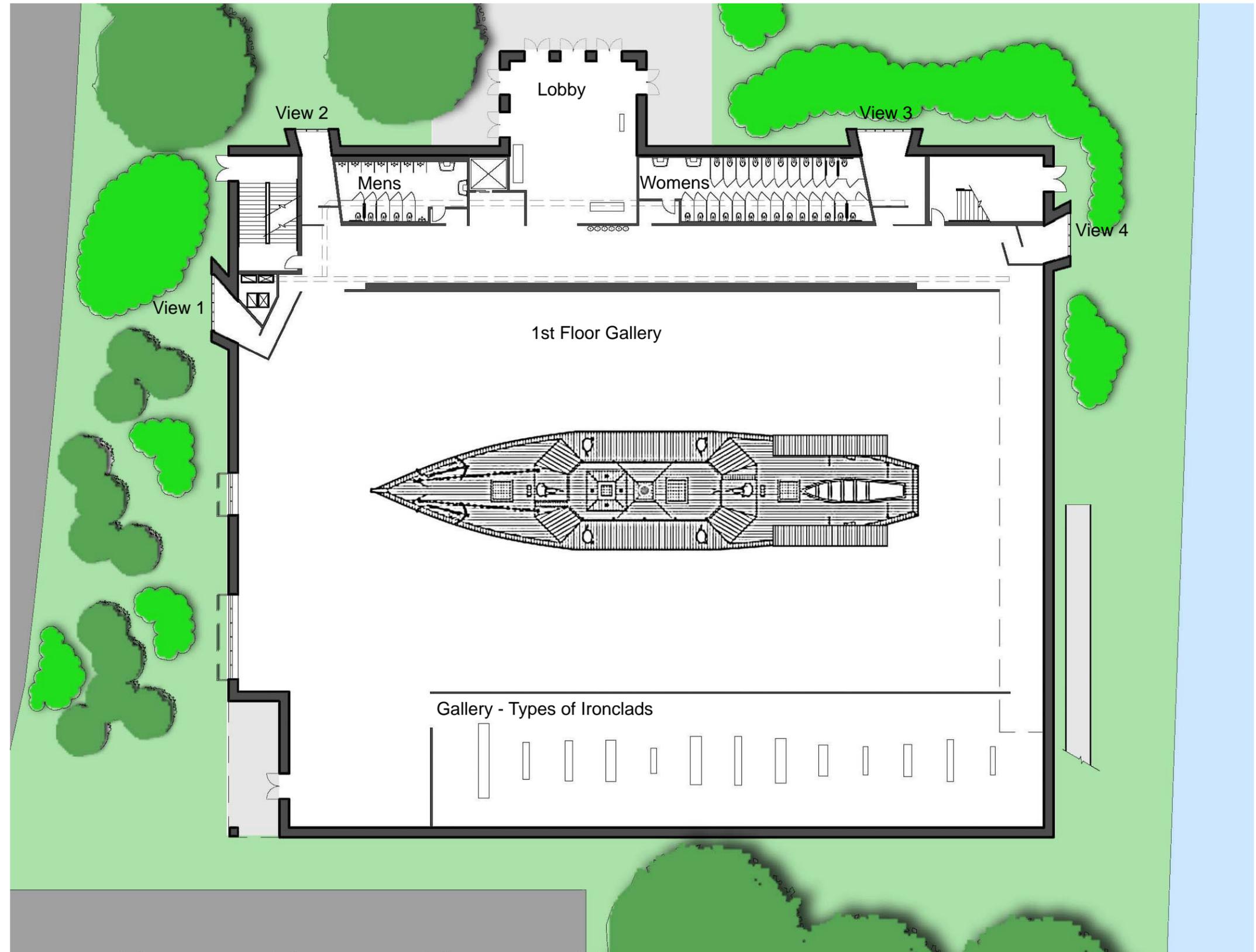
Basement Floor Plan

----- Indicates air duct above



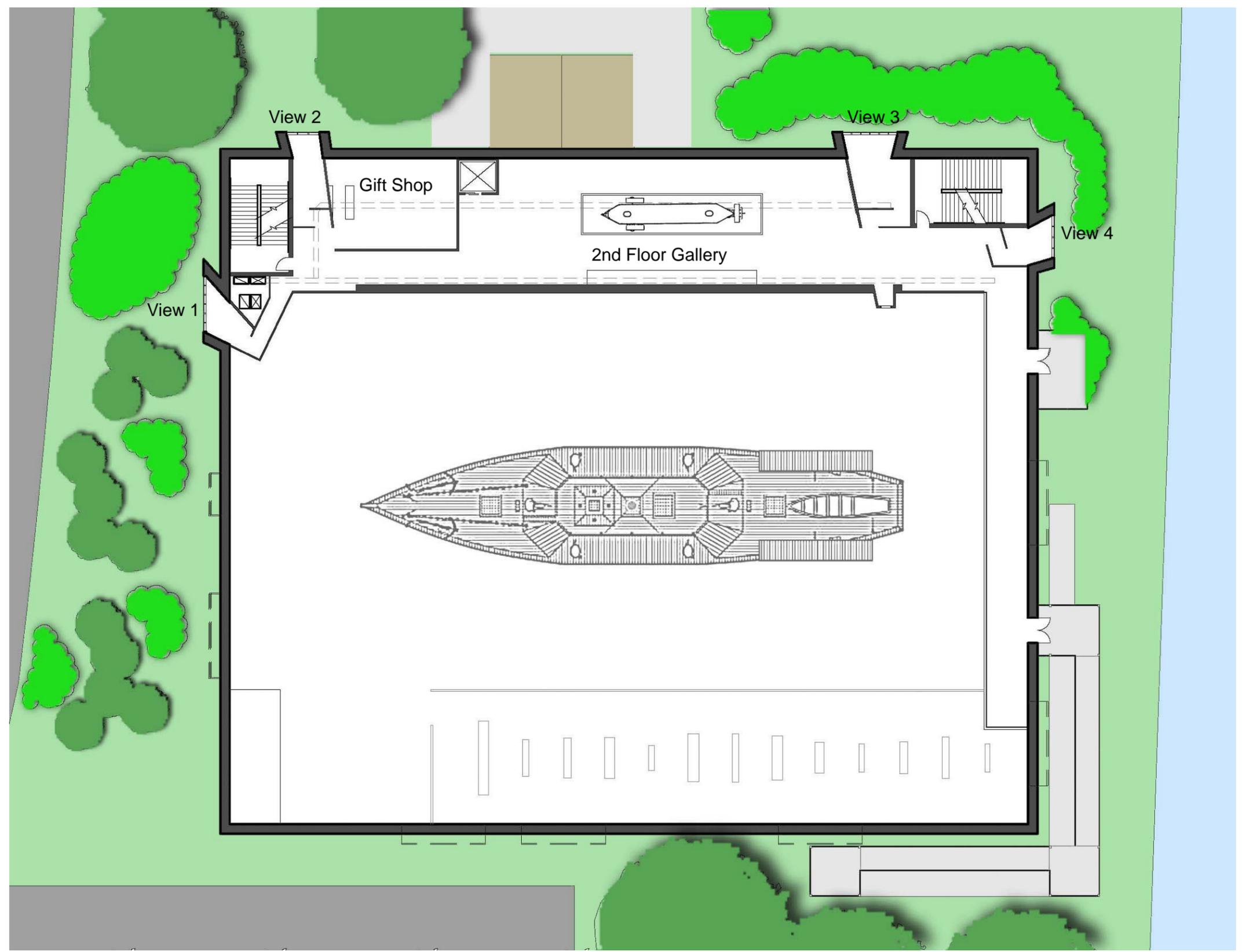
First Floor Plan

----- Indicates air duct above



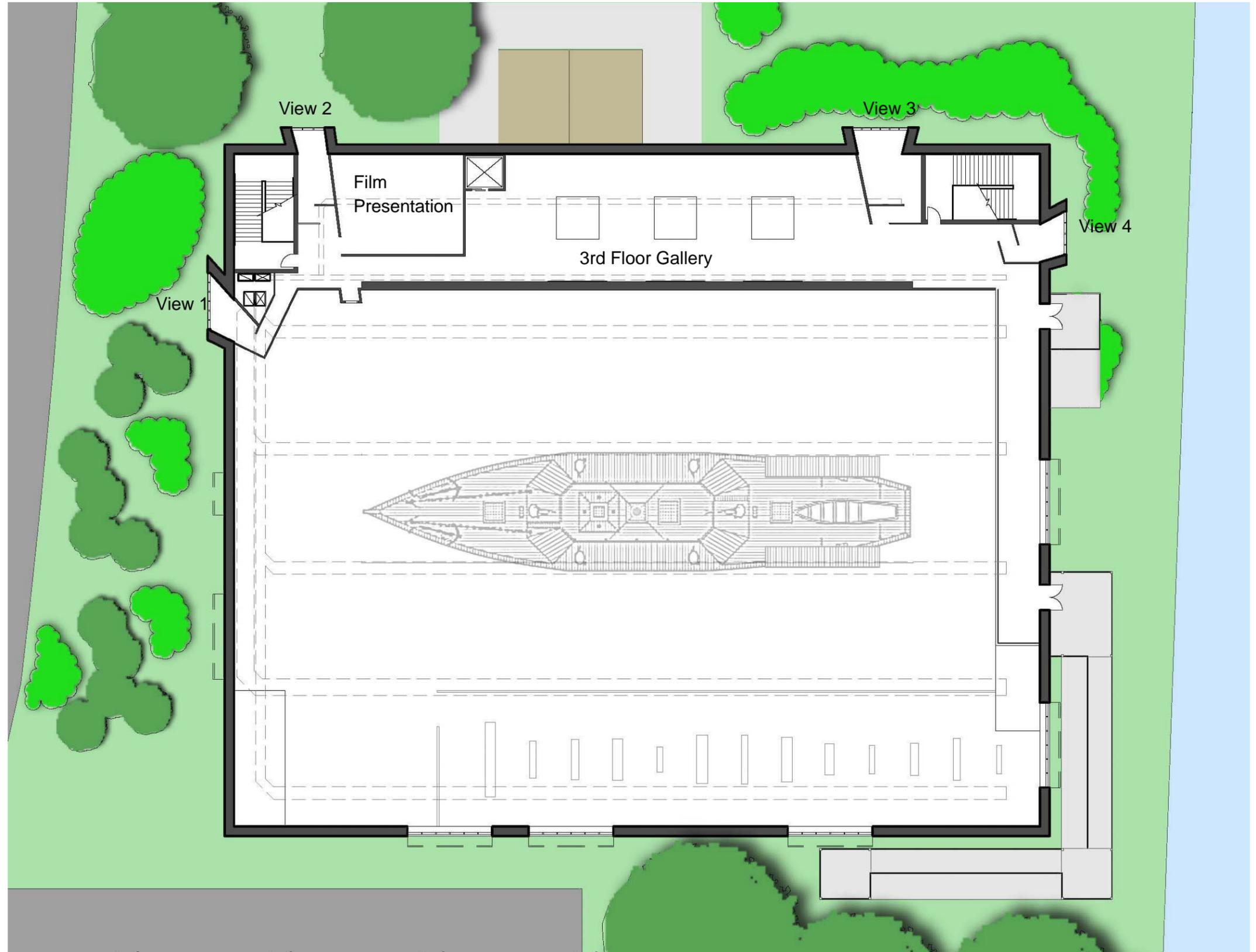
Second Floor Plan

----- Indicates air duct above

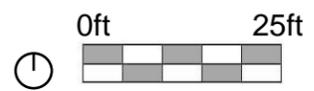
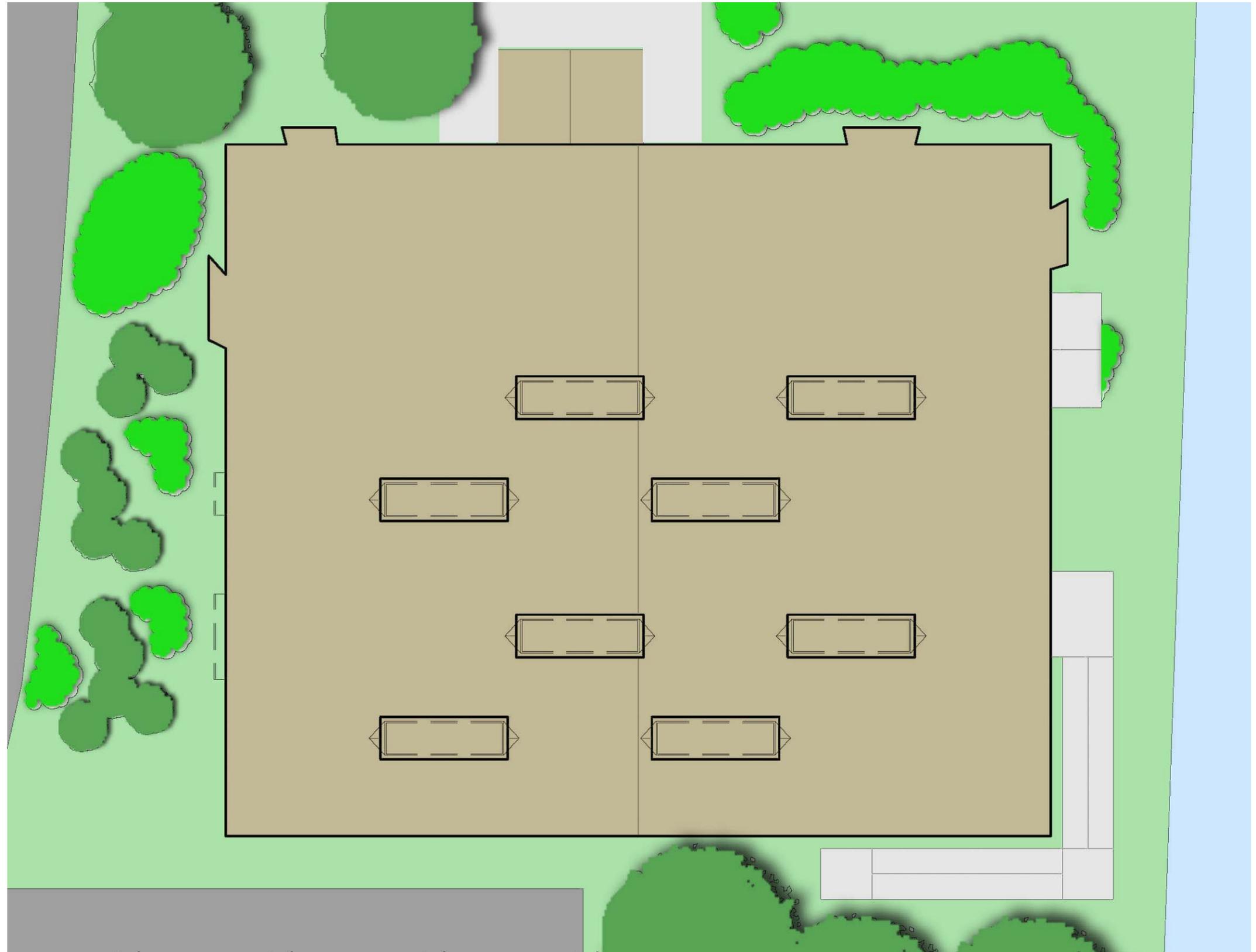


Third Floor Plan

----- Indicates air duct above



Roof Plan



Site Diagram

Convention Center - Ground floor parking shall be shared with Mobile Maritime Center. All visitors shall park here.

Visitors will walk to building using existing park paths.

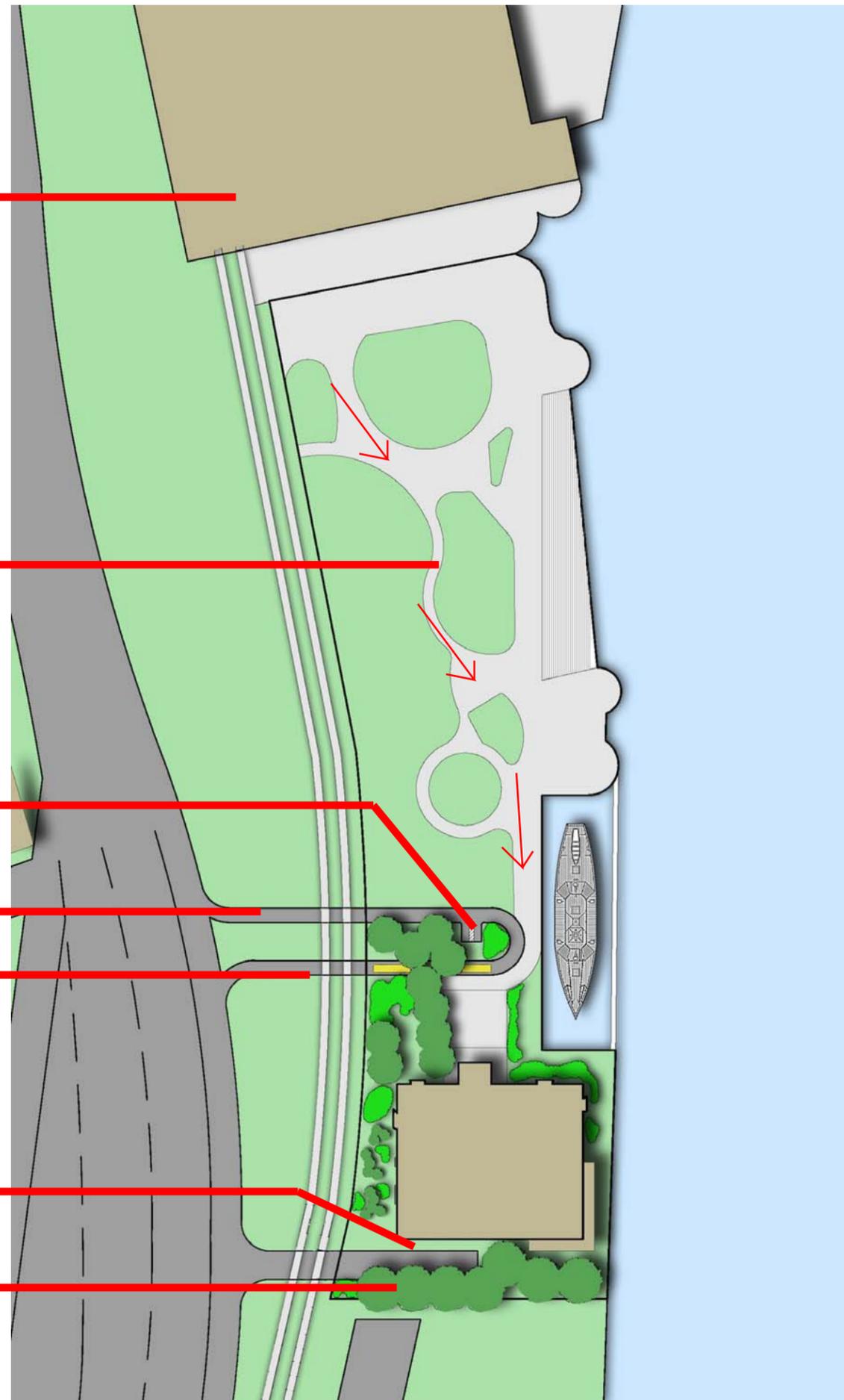
Handicap parking.

Bus and passenger drop-off and delivery exit.

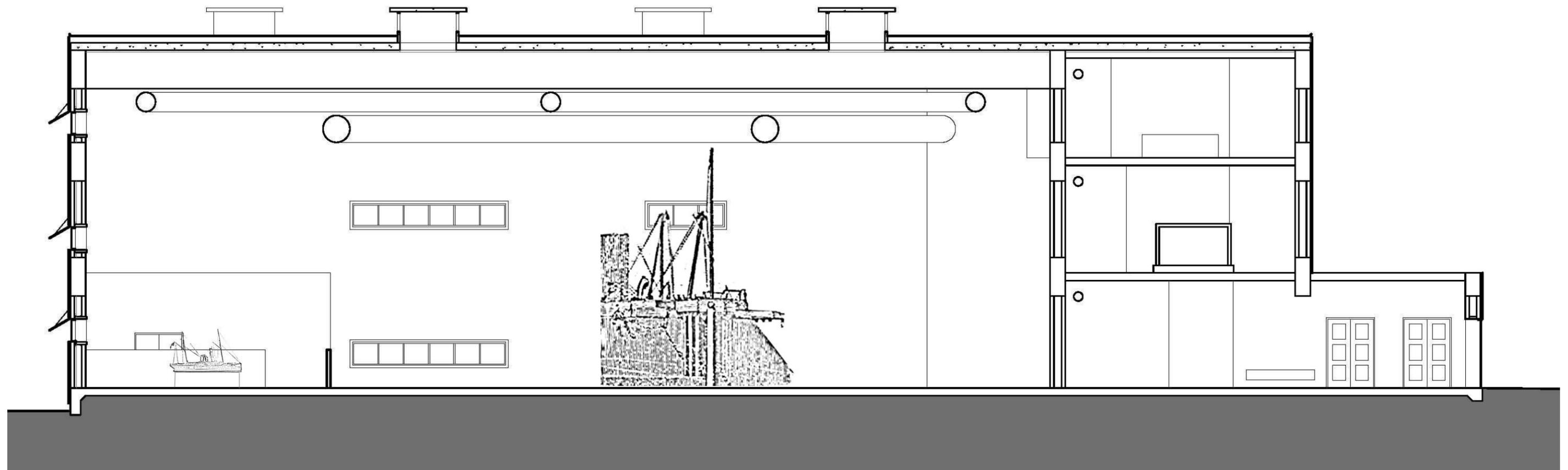
Bus and passenger drop-off and delivery entrance

Dumpster site

Parking for employees. Trees have been spaced to allow 2 vehicles between each trunk.



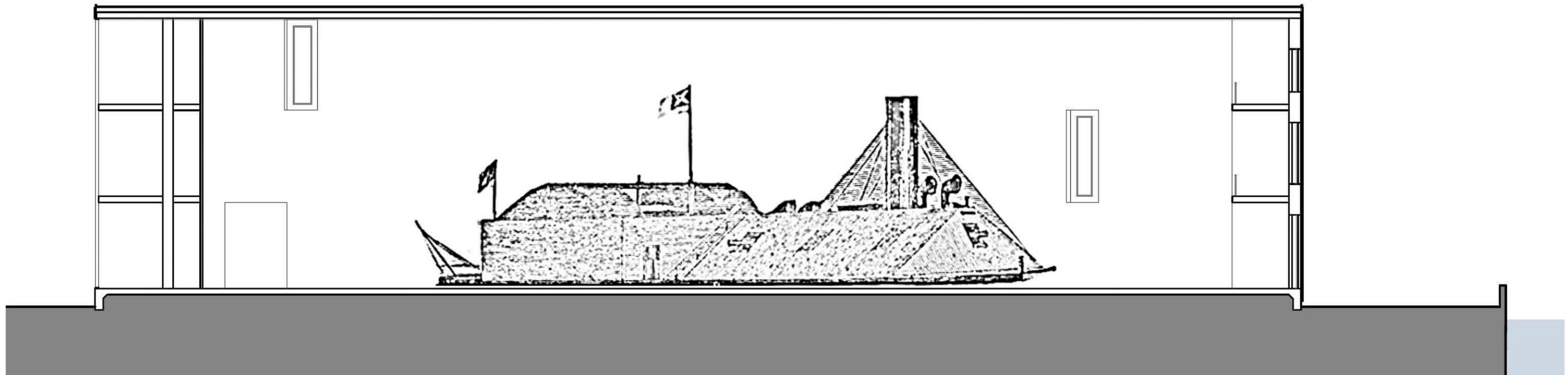
Building Section



0ft 25ft



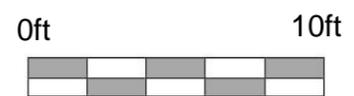
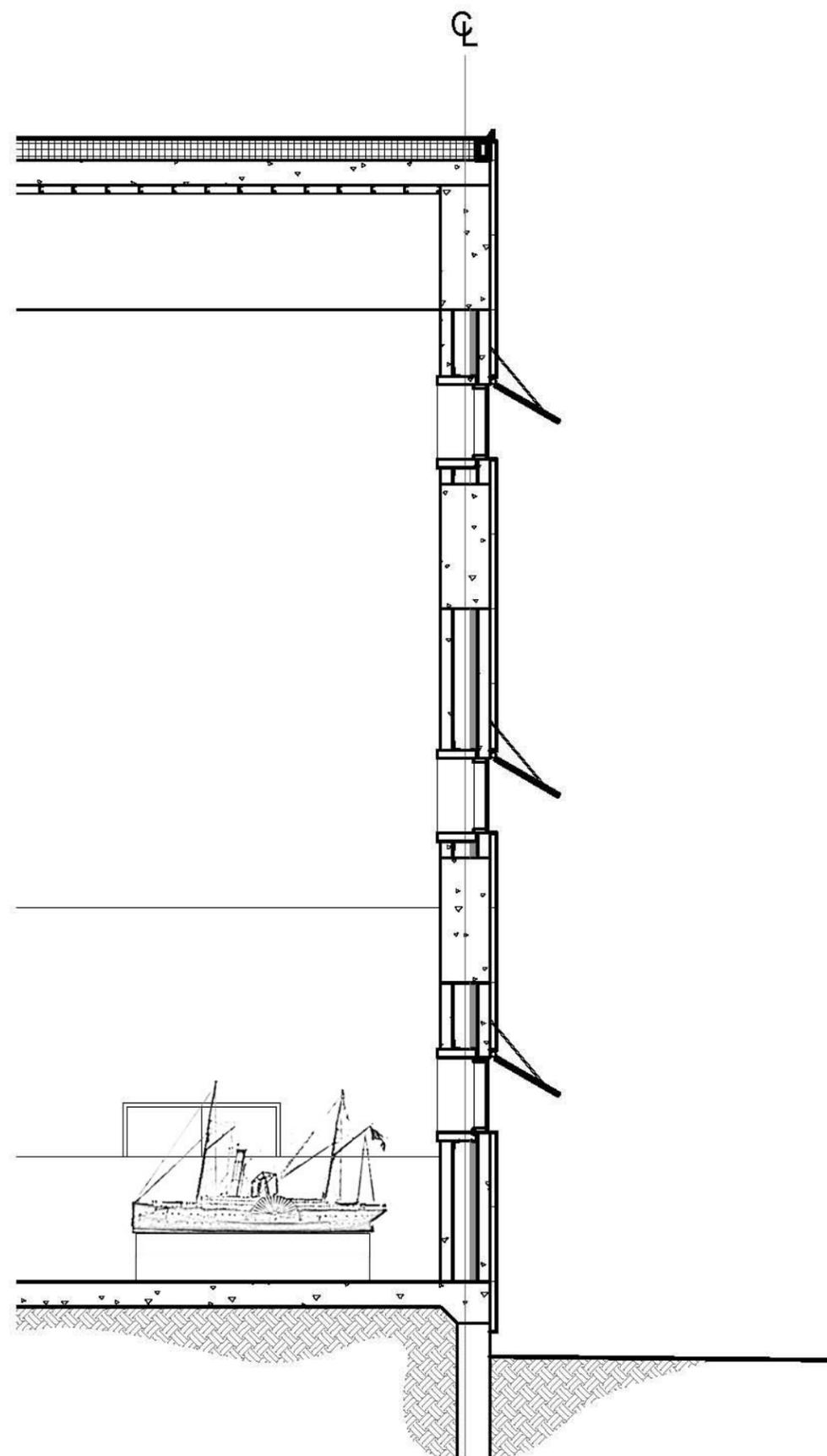
Building Section



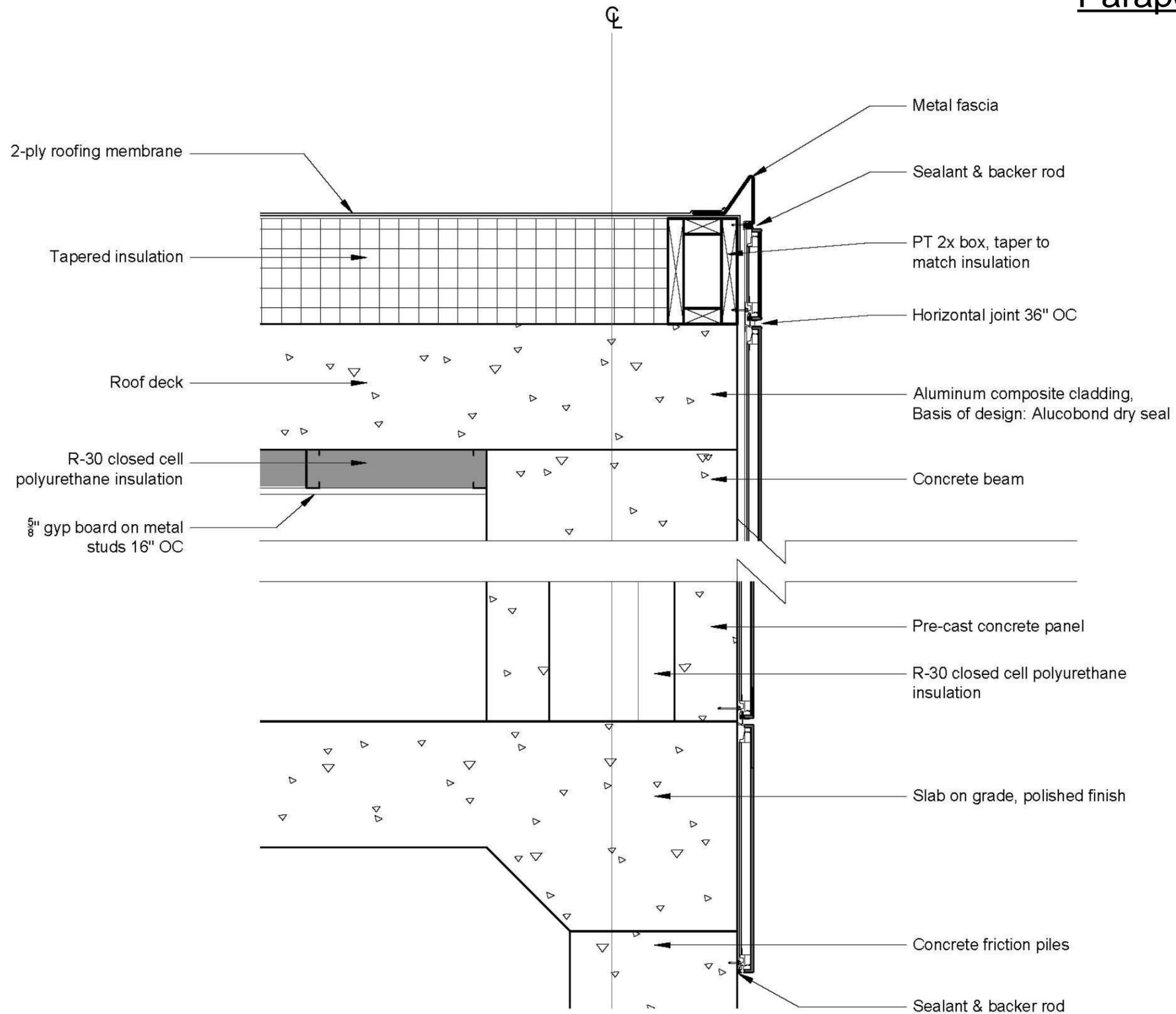
0ft 25ft



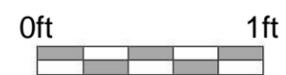
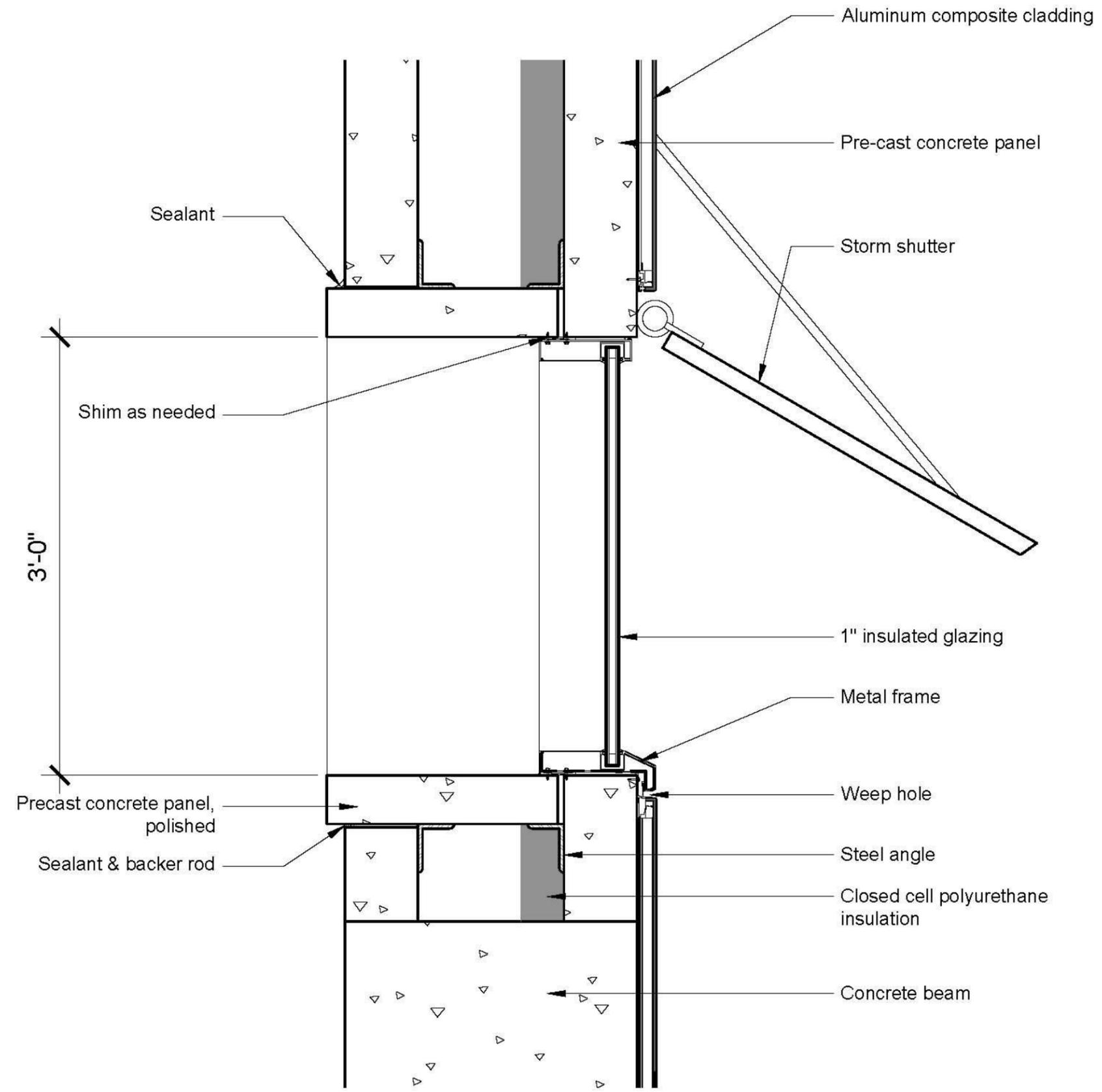
Wall Section



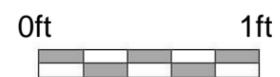
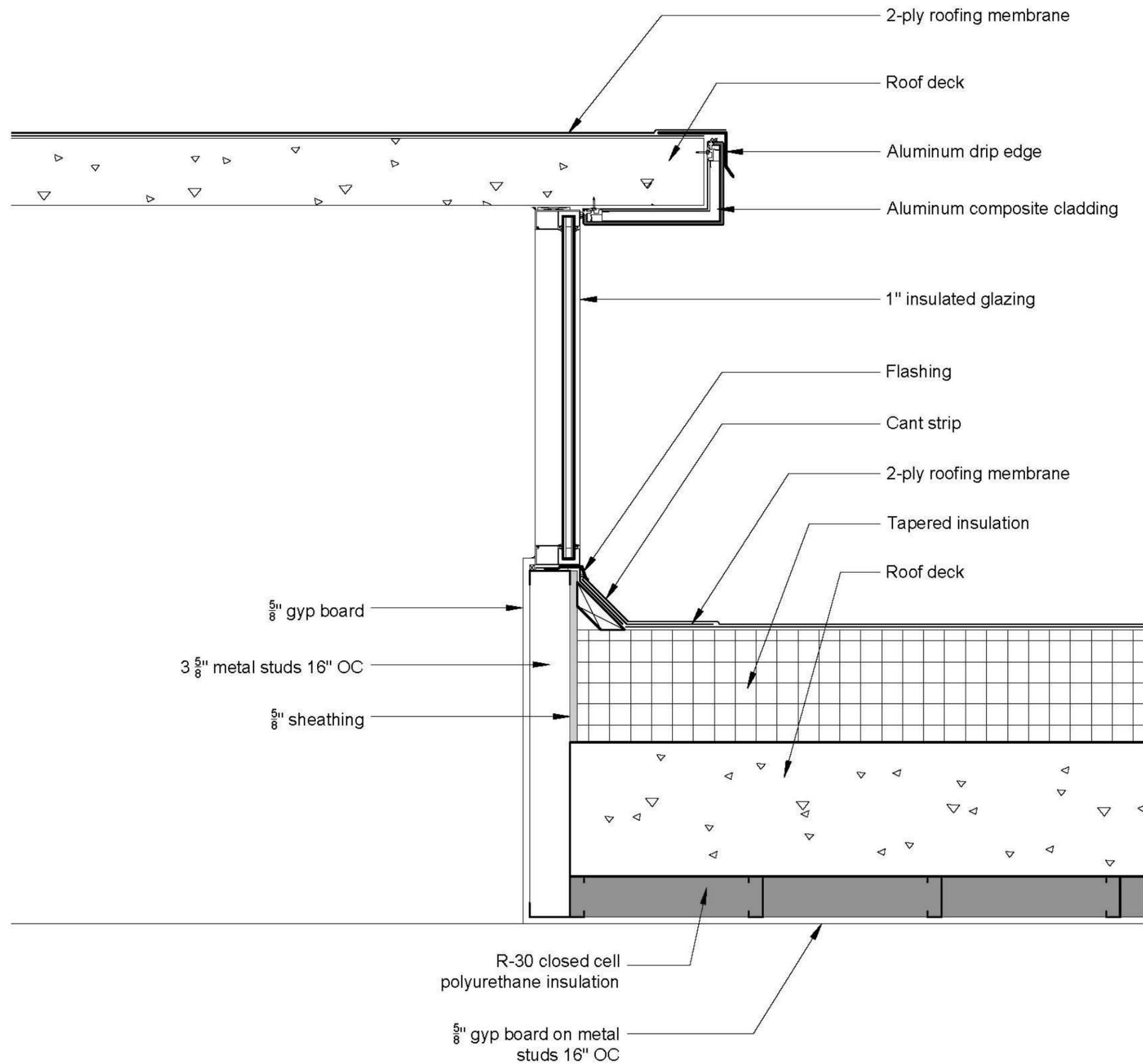
Parapet and Sill Detail



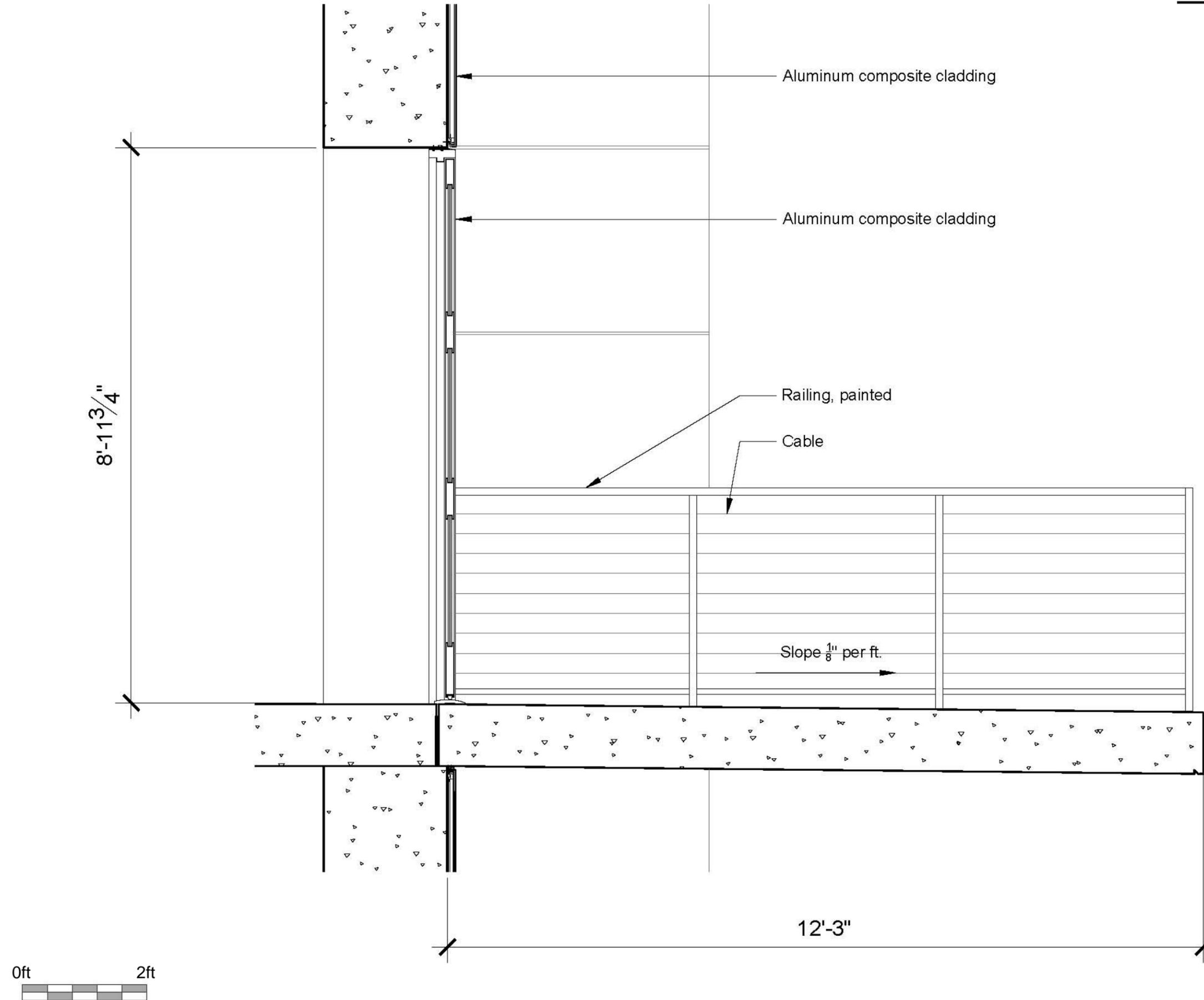
Window Detail



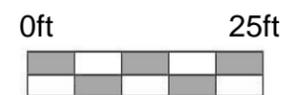
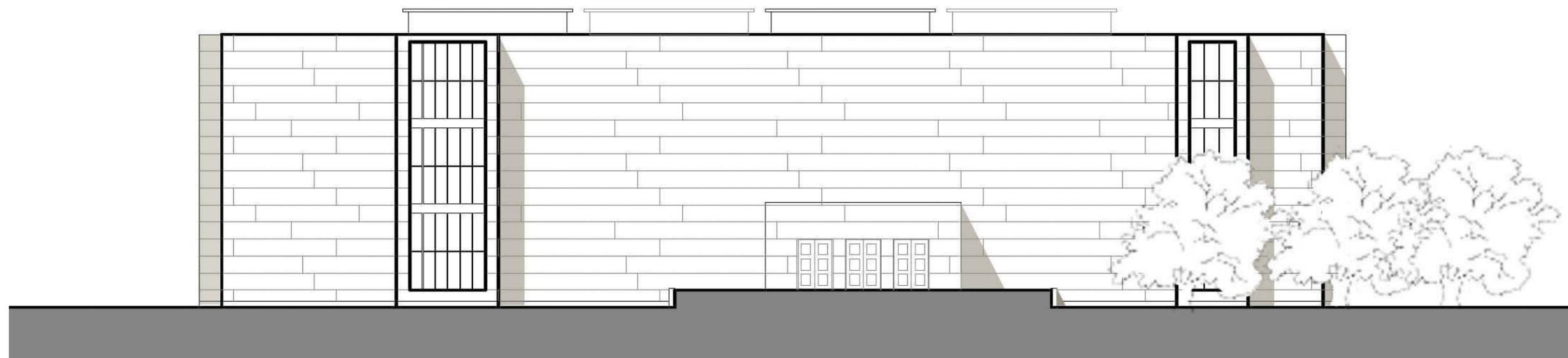
Skylight Detail



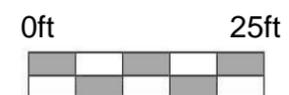
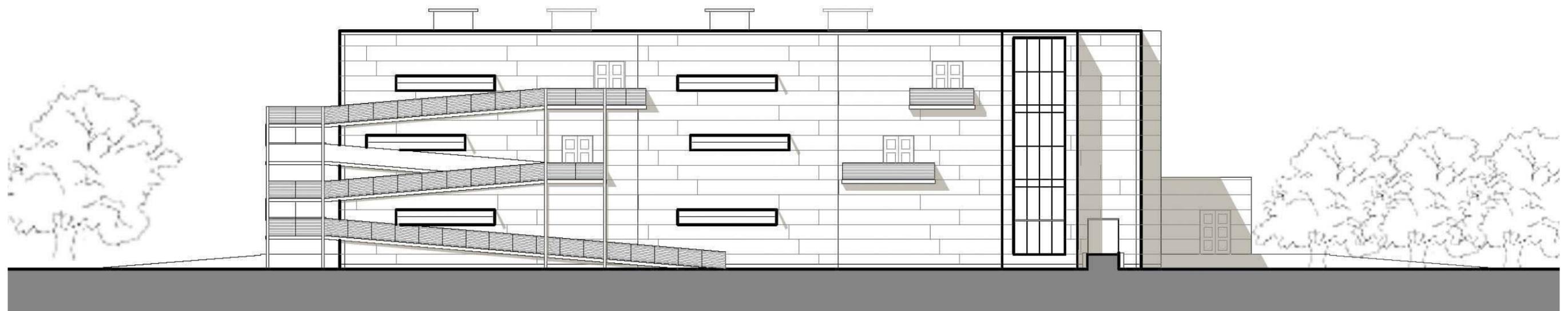
Balcony Section



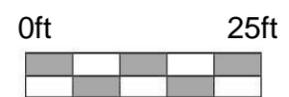
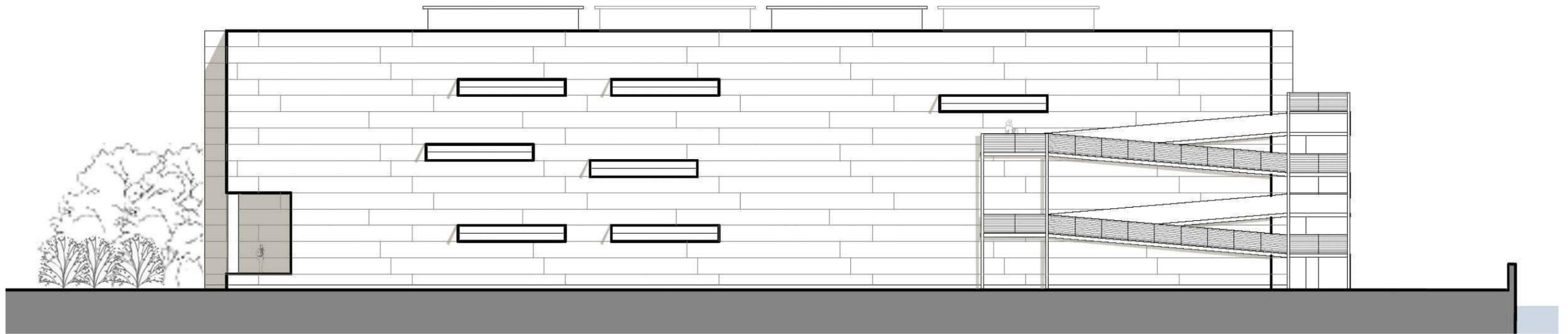
North Elevation



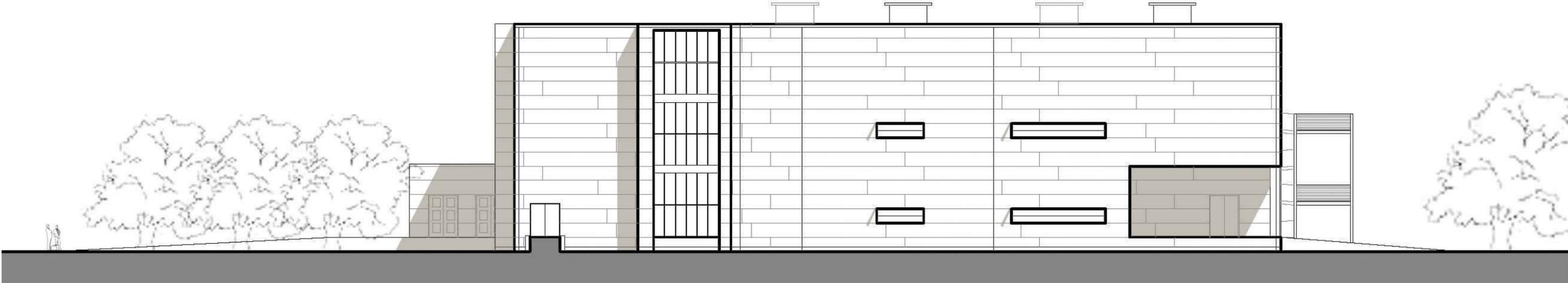
East Elevation



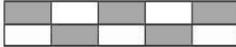
South Elevation

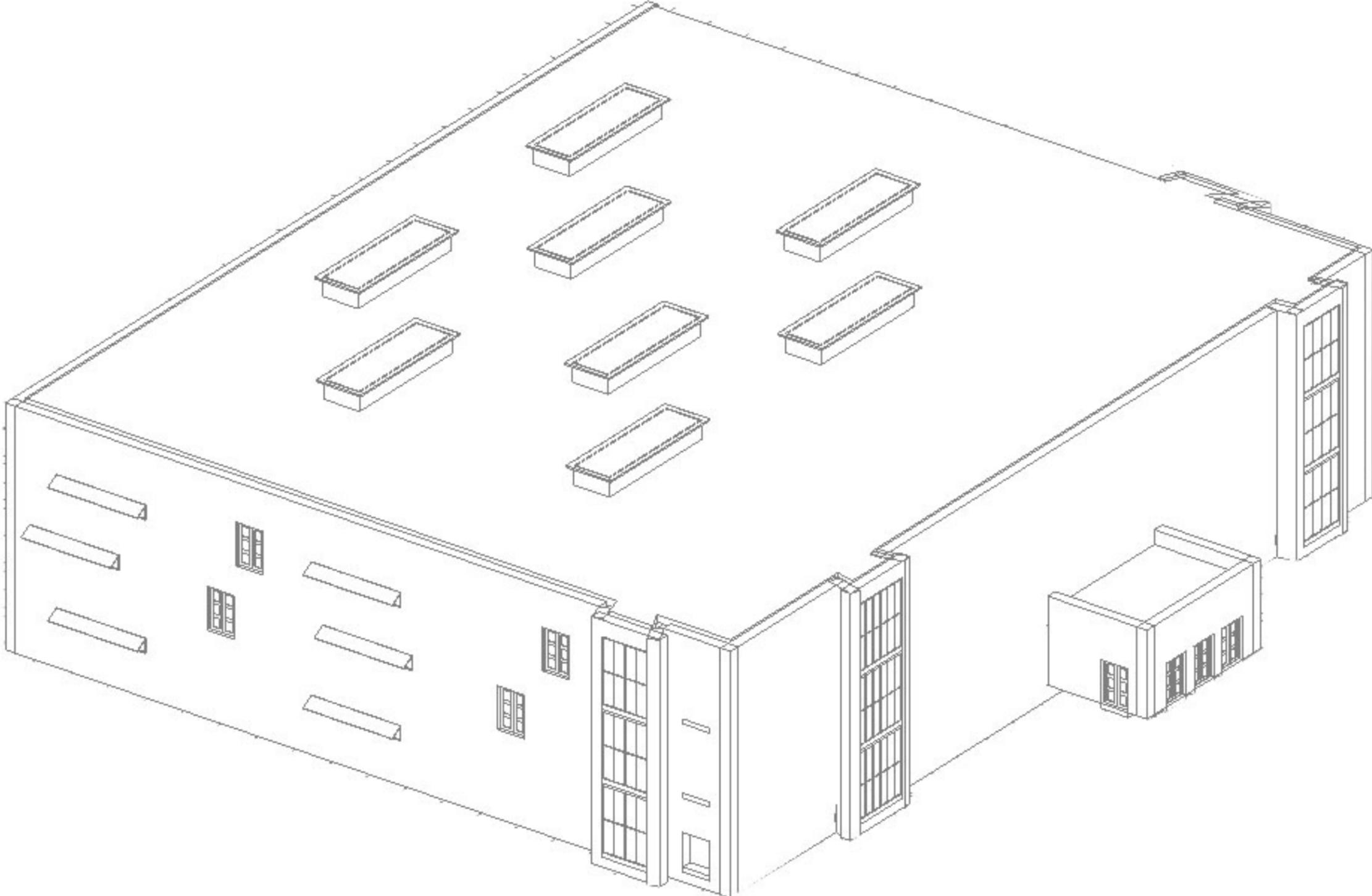


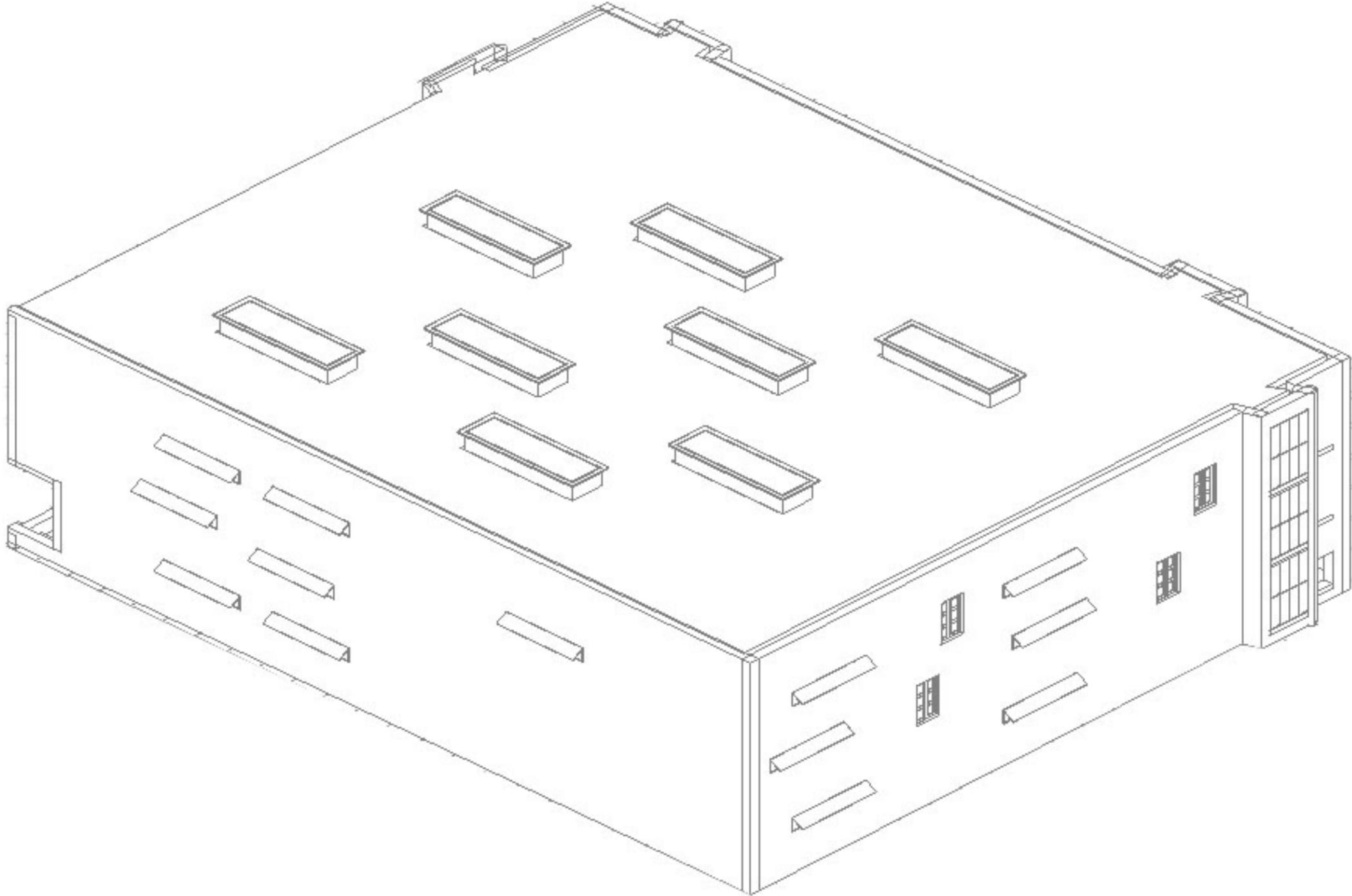
West Elevation

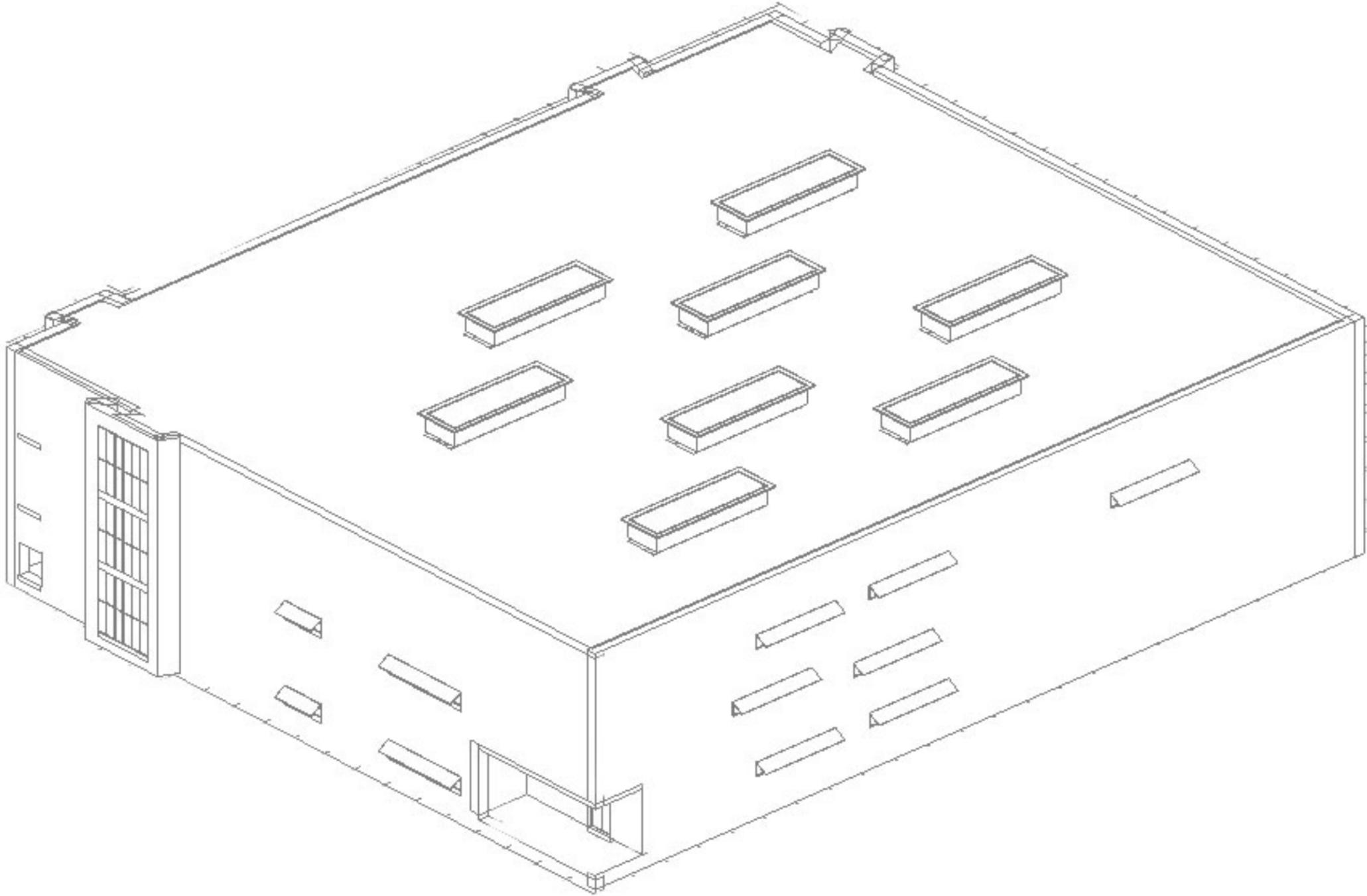


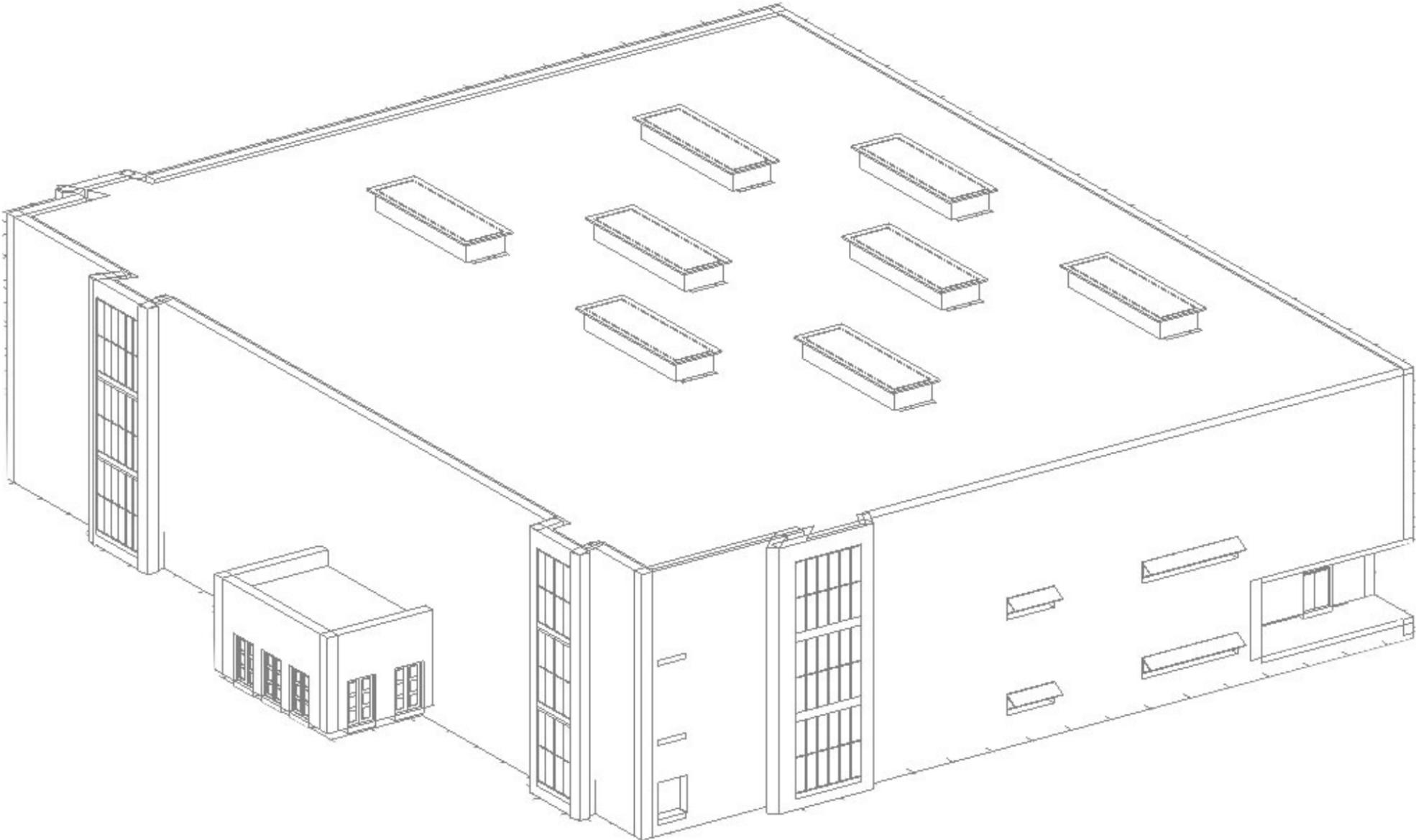
0ft 25ft

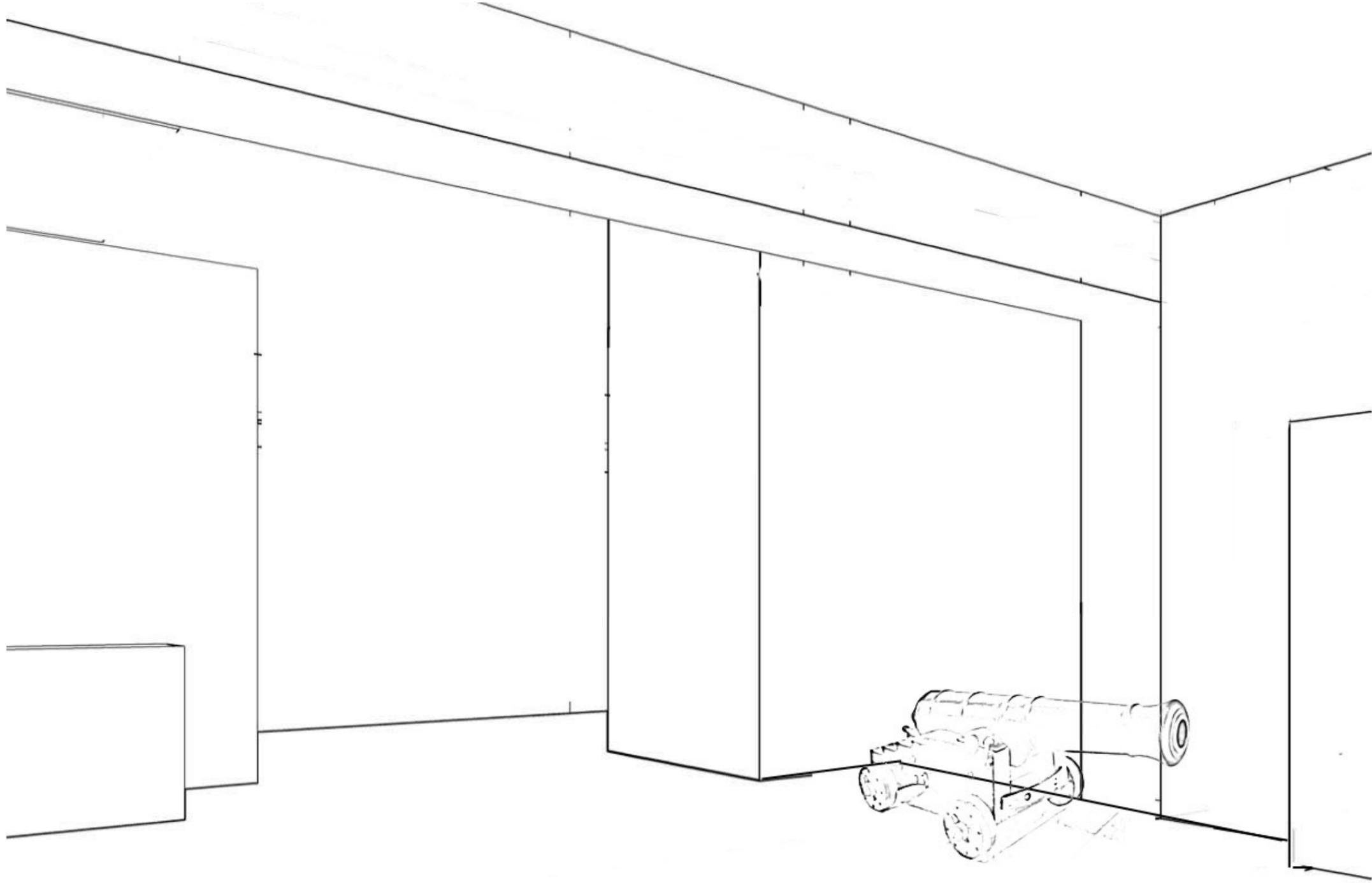




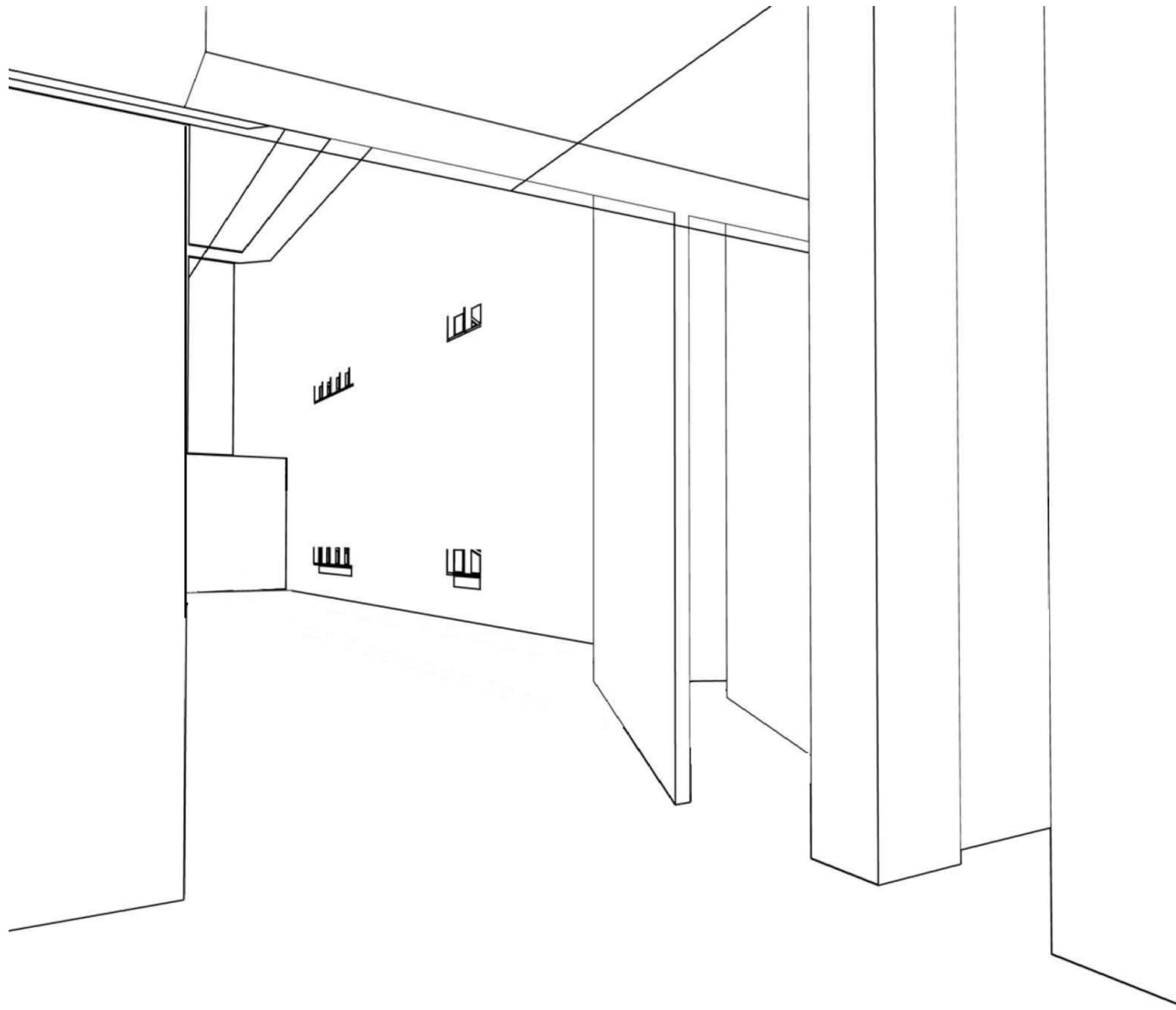


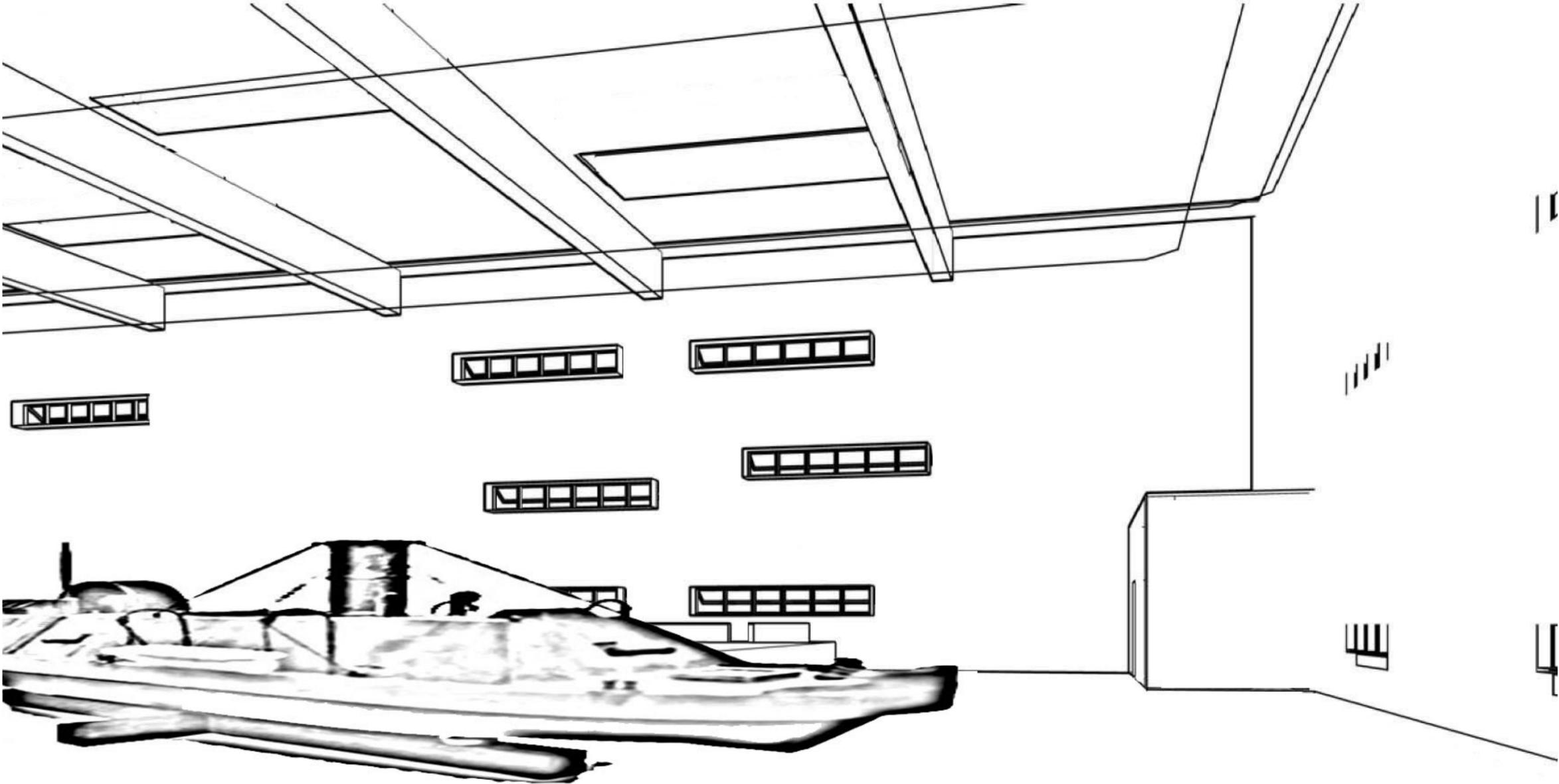


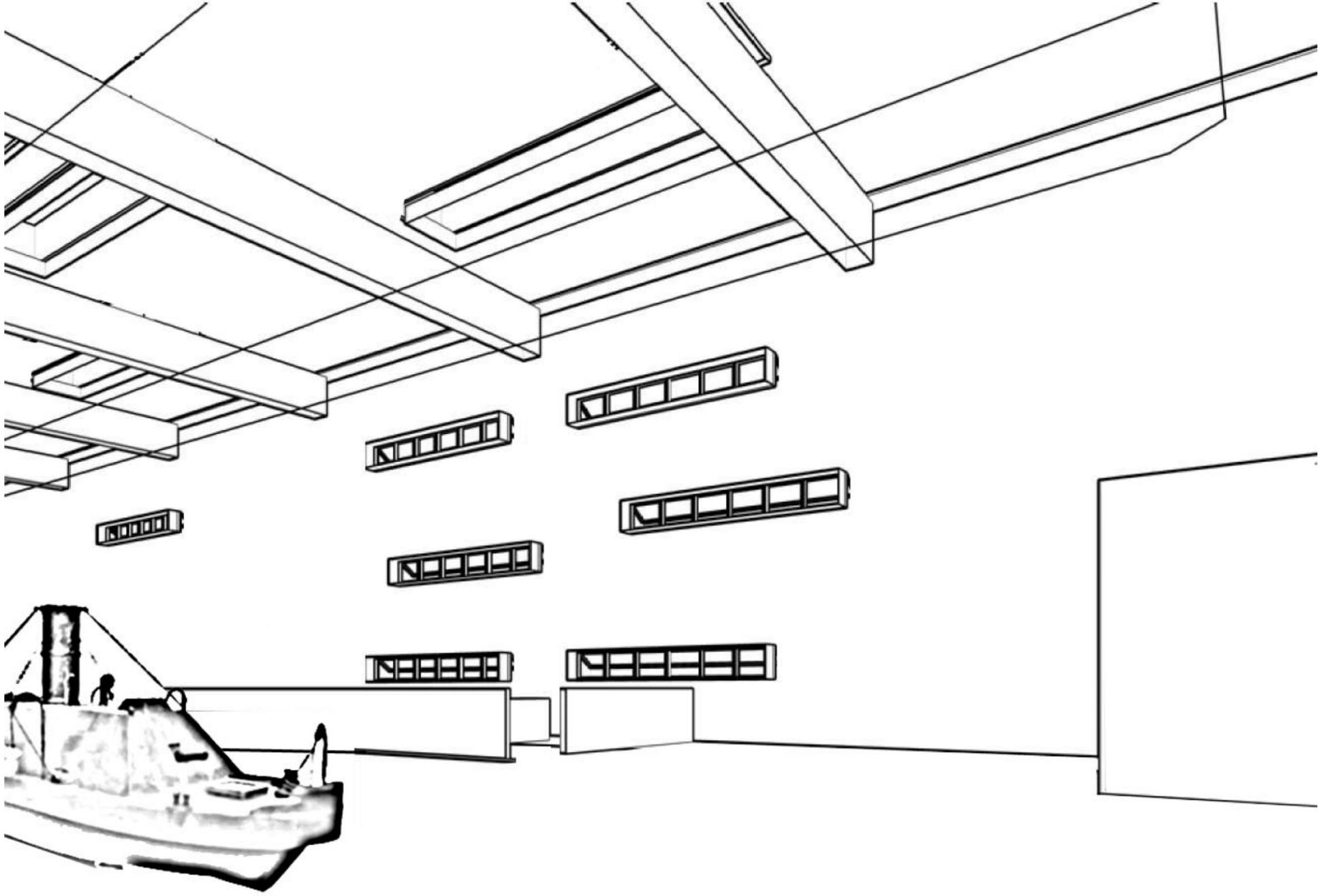


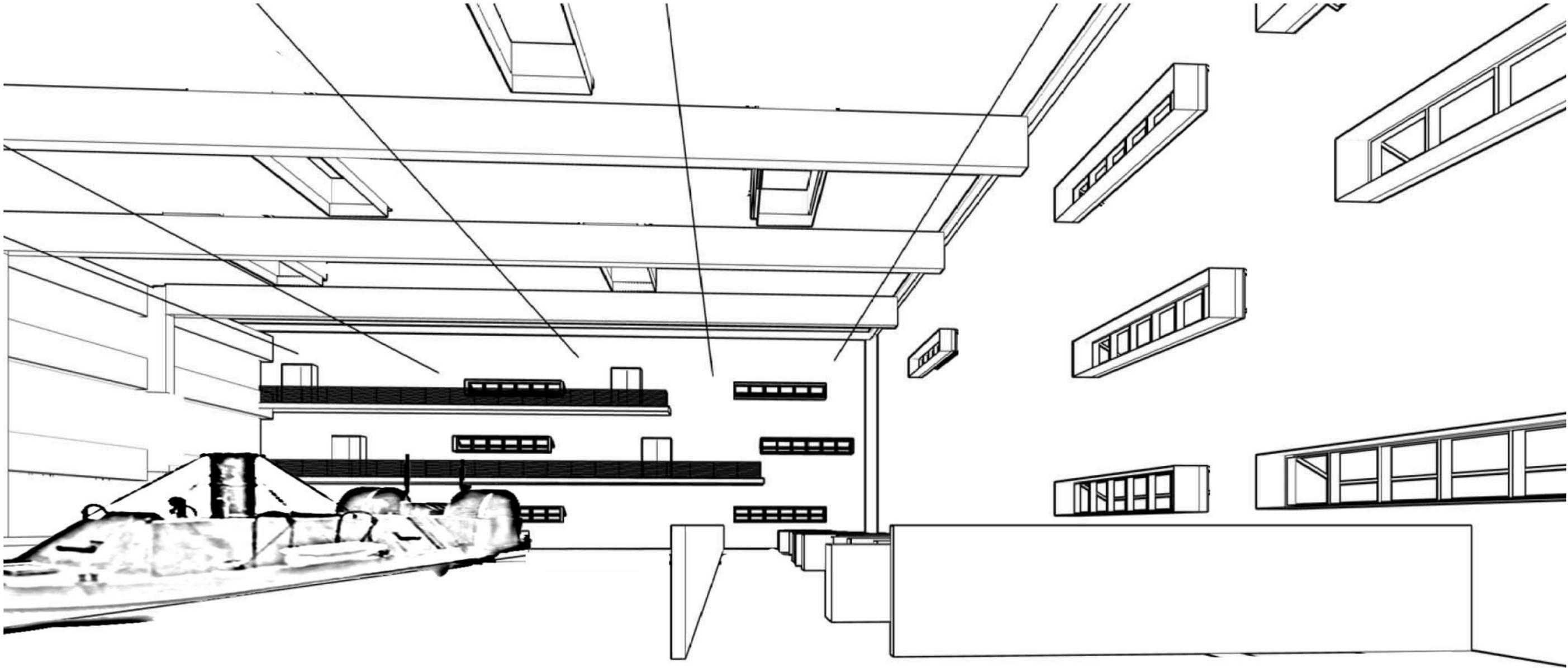


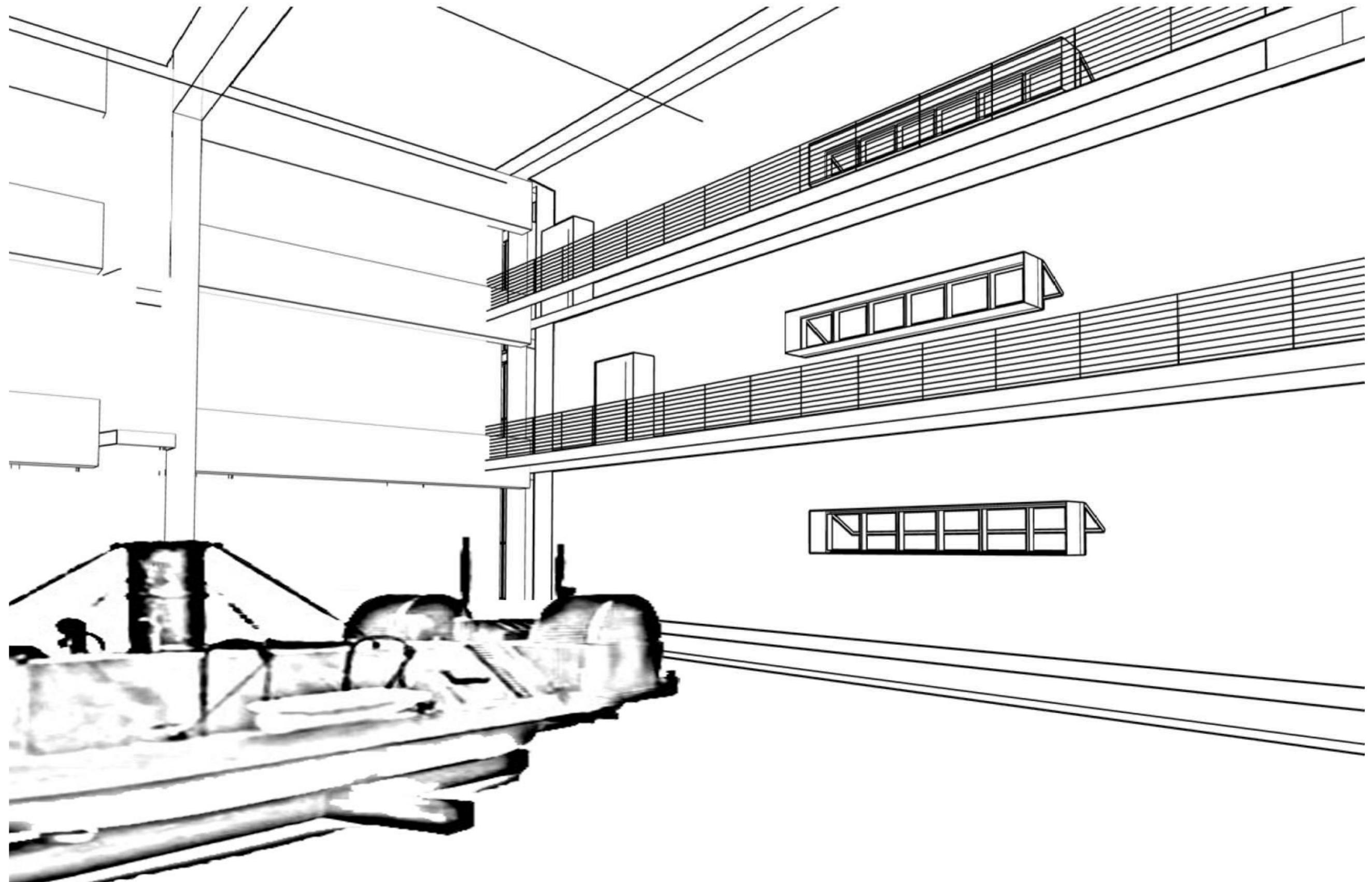
View into gallery











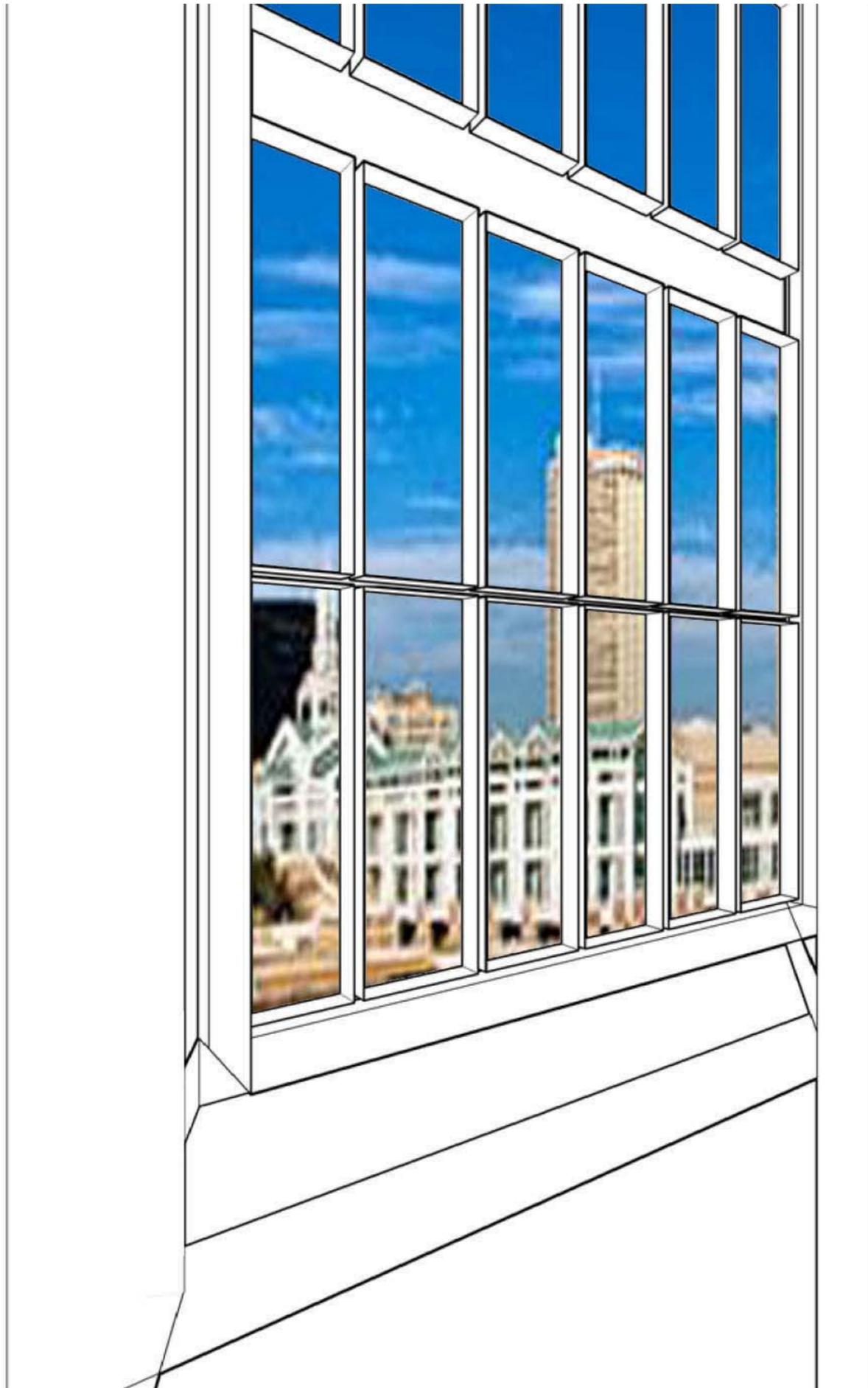
View 1 to Museum of Mobile and
Gulf Coast Exploreum



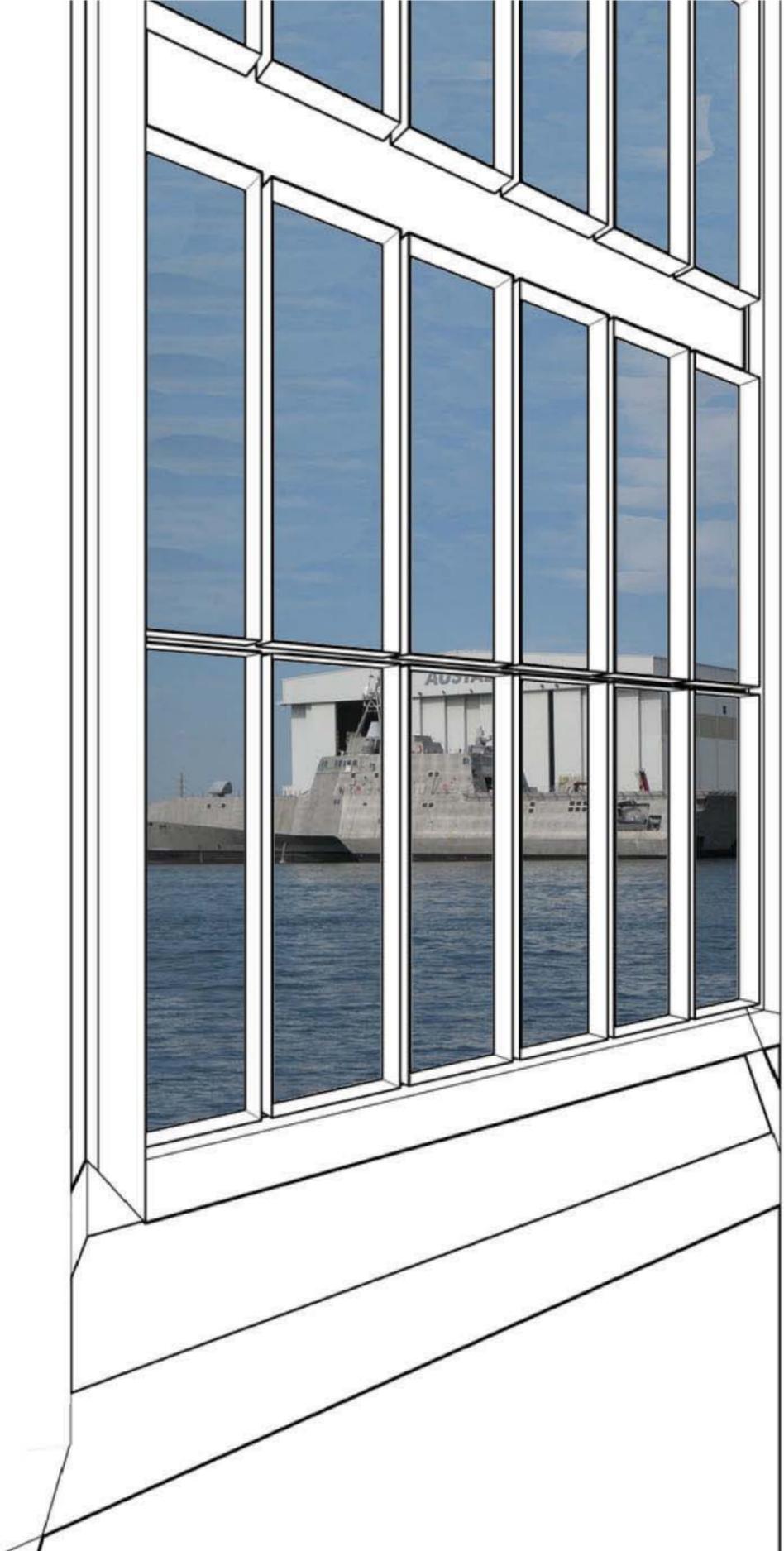
View 2 to RSA Battlehouse Tower



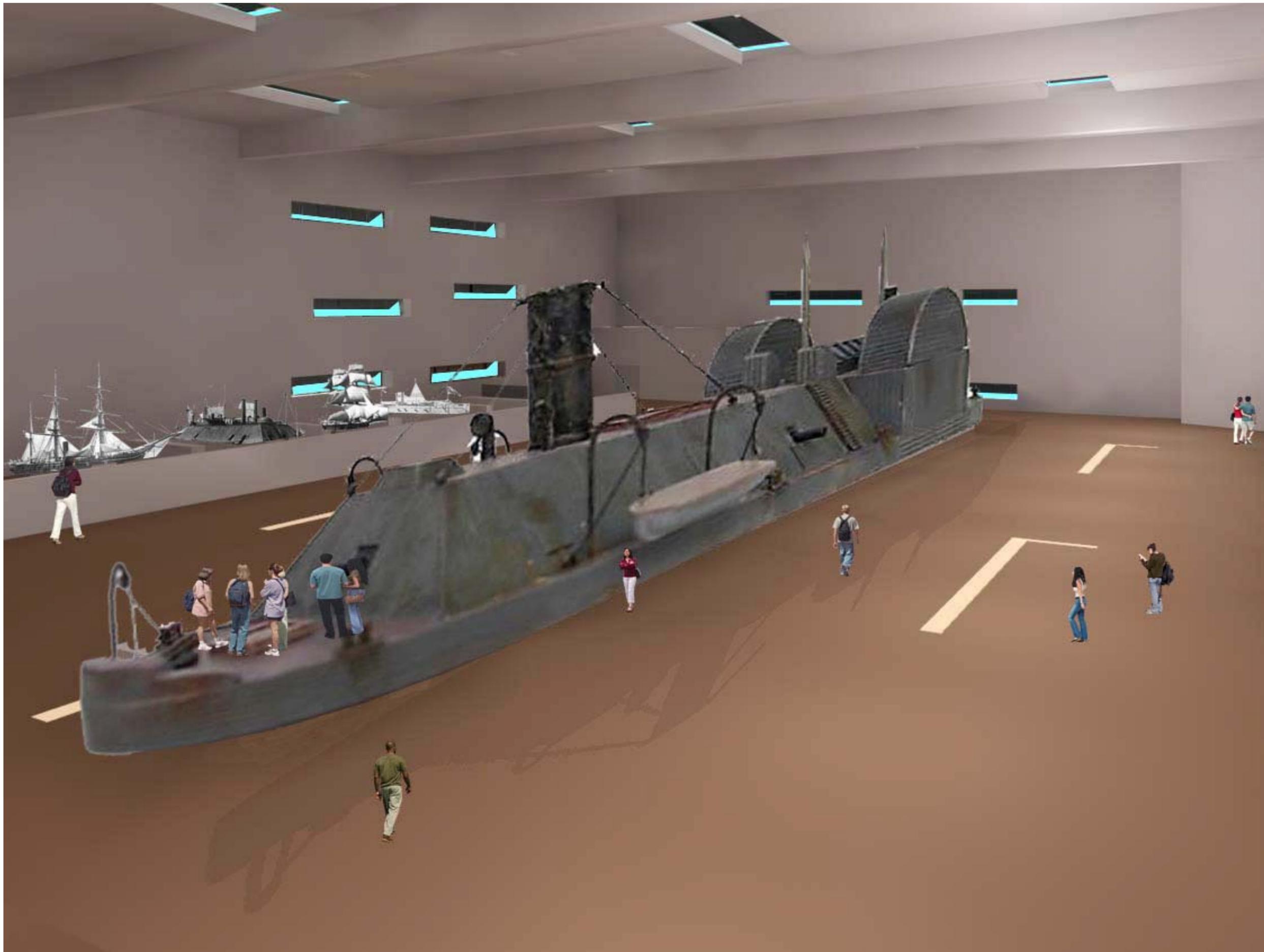
View 3 to Arthur R. Outlaw
Convention Center



View 4 to Austal shipbuilding









H.L. Hunley

