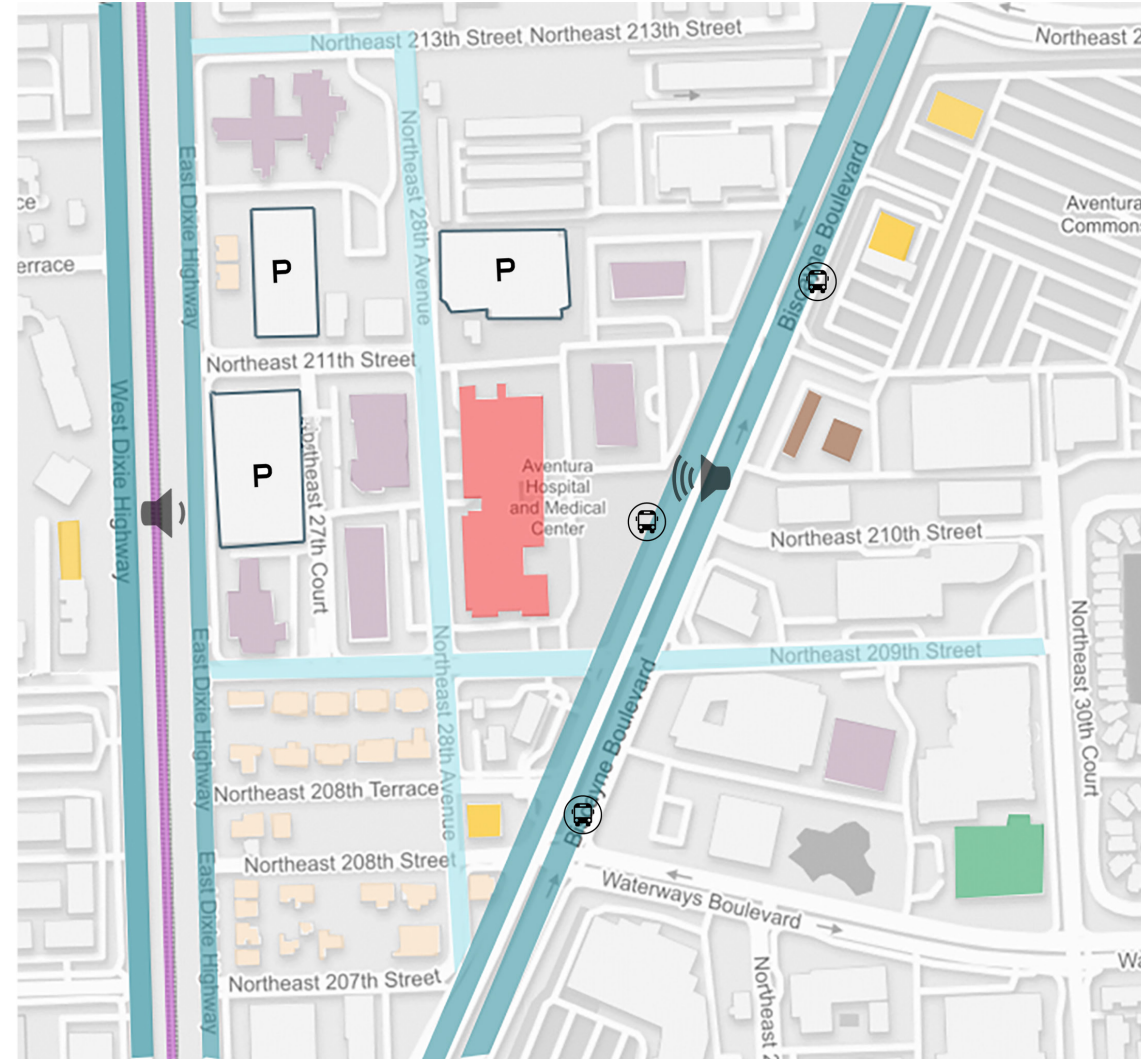


AVENTURA HOSPITAL E.D. DESIGN



SITE AND BUILDING ANALYSIS



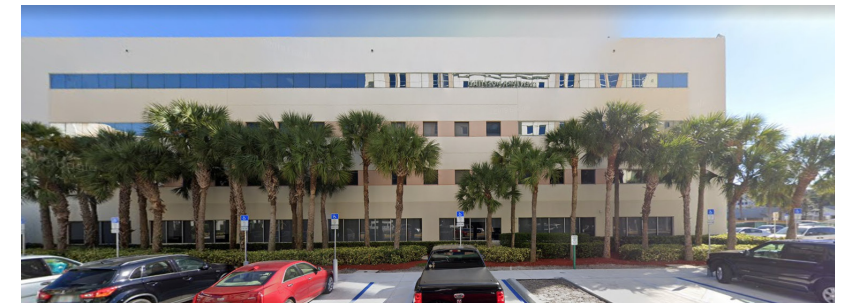
- Aventura Hospital & Medical Center
- TRAFFIC**
 - Major
 - Minor
- BUILDINGS**
 - Medical Centers
 - Residential
 - Hotels
 - Gas Stations
 - Restaurants
- NOISE LEVEL**
 - Minor
 - Major
 - Bus Stops
 - Parking Garage



North View



South View



East View

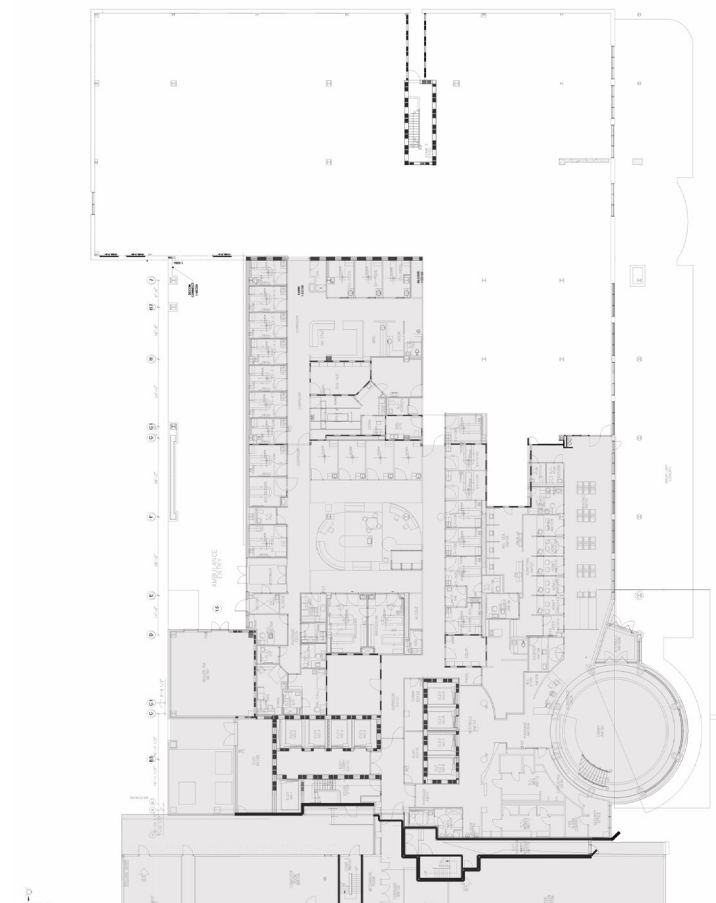


West View

The building is located in between two major roads, Dixie Highway and Biscayne Blvd in Aventura. There are **three parking garages** for both visitors and staff. On the East side of the building, there are **three bus stations** alongside Biscayne BLVD as well as a **gas station**. Most of the noise comes from two main roads, East and West of the building. Also, on the West side of the building, a **railroad** is located which contributes to the noise level.

The **main entrance** to the building is located on the East Side, while the **ambulance entrance** is located on the West side.

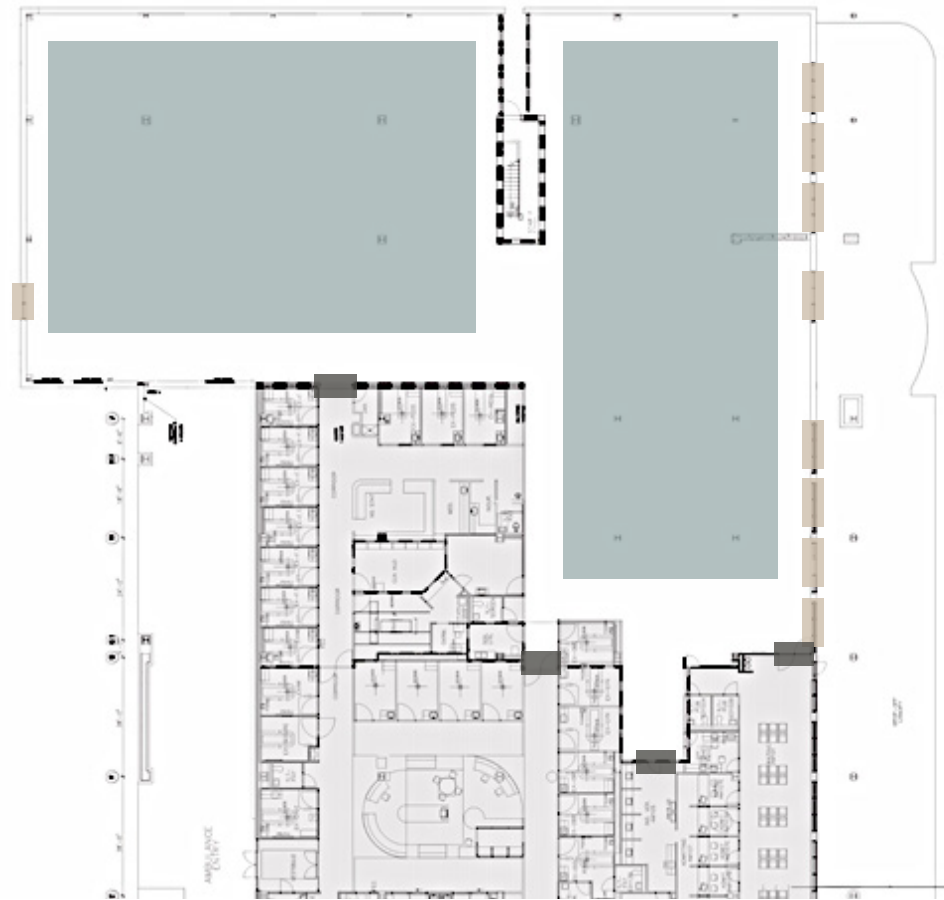
PROGRAM DIAGRAM



- IN SCOPE
- NOT IN SCOPE

Walk-In Entry / Waiting - 3,782
 Reception/Registration/Triage - 1,466
 Emergent/Urgent - 9,667
 Administrative / Staff Support - 1,853

SPATIAL DIAGRAM



- Shape of Interior
- Interior Thresholds
- Linkage to Exterior (windows)

The interior space can be broken down into **two basic shapes**. These shapes are **not equal in size**, or proportion, though they are **both rectangular**. The thresholds are **defined by structural elements** and there are several windows along the east side of the building. These windows provide clear visibility to the exterior which is also a high foot traffic area. This must be considered when designing and planning for different levels of privacy.

ZONING DIAGRAM



- Public
- Semi-Public
- Semi-Private
- Private

The building can be **divided from public** areas to **private areas** as the user moves inward **from the East** side of the building **to the West**. This makes the main entrance a public space, the space in the center a semi-public space, and the space furthest to the back, a private area.

ZONING DIAGRAM



- Defining Elements
- Geometric Hierarchy
- Edge Condition - Walls
- Edge Condition - Glazing
- Sunlight Intrusion

Daylight enters from the East side of the building but does not spread too far into the building because the canopy limits the amount of sunlight. The **stairway and bearing walls**, are defining elements that **divide** the **interior space** into **geometric sections**. This can help the design process by providing ideas on how to arrange programming within these sections.

STRUCTURAL DIAGRAM



- Columns
- Bearing Walls
- Grid Pattern

The **bearing walls** within the interior help **define and divide** the space. The **columns** follow a **grid pattern** which further outlines the space and aligns with other columns. These columns will ultimately **determine the size of rooms and the layout of the design**. Understating the relationship of columns within each other is crucial.

USER PROFILE



PATIENTS

Age

All ages

Gender

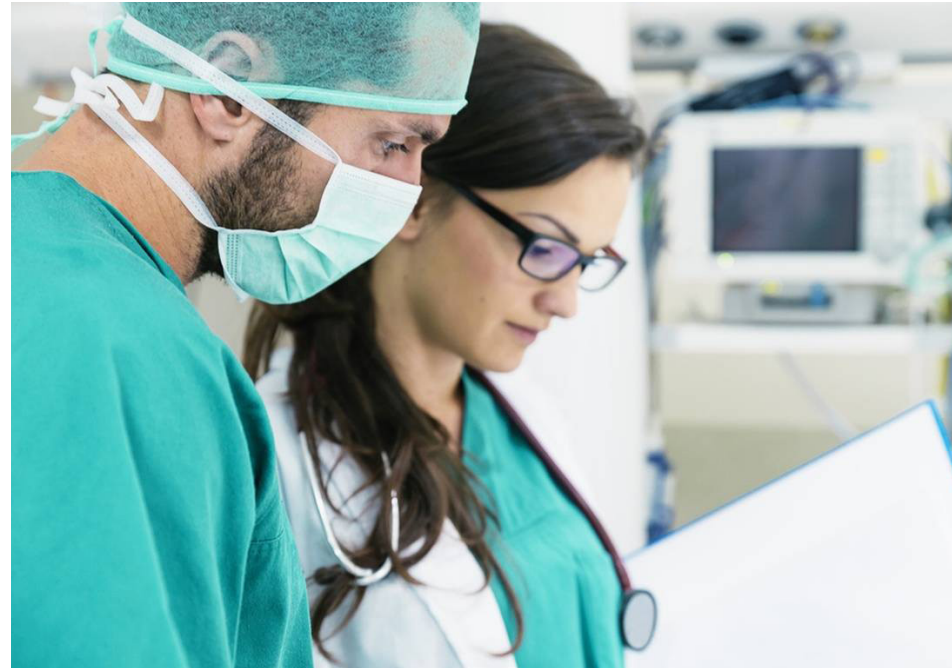
All genders

Culture/Ethnicity

White Non-Hispanic 57.6%

White Hispanic 36.1%

Aventura has a large Jewish and Latino community. Their shared cultural values of family and togetherness is significant understanding their belief systems.



CARE PROVIDERS

Number of occupants

34 Doctors in Emergency Medicine

12 attending physicians

22 residents

Hierarchy in organization

- Emergency physician
- Emergency nurse
- Physician assistant

Age

The average age of actively licensed physicians is now 51

Gender

All genders

Values

- Trust
- Integrity
- Transparency



FAMILY MEMBERS

Age

All ages

Gender

All genders

Culture/Ethnicity

White Non-Hispanic 57.6%

White Hispanic 36.1%

Aventura has a large Jewish and Latino community. Their shared cultural values of family and togetherness is significant understanding their belief systems.

USER NEEDS

PATIENTS



Physiological & psychological design considerations

- Incorporate **adjustable beds** and equipment to accommodate the patients need and comfort
- Consider **comfortable lighting** for well-being of patients
- Pleasant smell and good **air quality**
- Consider **calming and relaxing colors** such as blues and greens and soft natural tones
- Incorporate **biophilic elements** such as surface materials and textiles



Security Design Considerations

- Provide opportunity for **intimate setting** for patients **privacy**
- Incorporate **movable partitions**
- Provide **acoustical properties** for sound control



Belonging and self esteem needs design considerations

- Create an environment where patient **feel welcomed**
- Incorporate **control** within the patient **personal environment** such as lighting and ergonomic bed
- Consider a **separate area** for **public** or notable **figures**



Individual needs design considerations

- Clear **wayfinding**
- **Flexible space** to accommodate **solitude, intimacy, or anonymity**
- Ensure **ADA guidelines** for accessibility
- Allocate a **space for a family member** or visitor

CARE PROVIDERS



Physiological & psychological design considerations

- Provide **ergonomic** furniture and equipment
- Consider **aesthetics** for a **homelike** or attractive **therapeutic setting** such as, bright open public spaces
- **Avoid colors/design** that might be **visually strenuous**



Security Design Considerations

- Incorporating a space that provides **visual and acoustic privacy** from public
- **Avoid** the placement of care provider stations from **high traffic areas**
- Consider a layout that provides **enough personal space** to avoid overcrowding



Belonging and self esteem needs design considerations

- Provide **designated work areas** that accommodates the needs of different care providers
- Provide **lounge areas** for care providers to feel the belong in the space
- Provide **limited control** of their **environment**



Individual needs design considerations

- Incorporate a **quiet area** for care providers to **focus**
- Provide a **pleasant environment**
 - Neutral tones, soothing colors
- Provide **ergonomic** furniture
- Consider **accessibility** of equipment
- Provide a **space** where care provider can **decompress and recharge**

FAMILY MEMBERS



Physiological & psychological design considerations

- **Comfortable seating** in waiting area
- **Welcoming environment** to ease family's stress
- Provide **healthy distractions** such as T.V., nice views, and lounge areas
- **Avoid harsh overhead lighting** that may affect mood or strain visitors' vision over long period of time



Security Design Considerations

- A **child-friendly environment** to keep children safe
- Provide **access** to resources that provide **information about the patients health**
- Provide **clean environment** with **pleasant scent**



Belonging and self esteem needs design considerations

- Provide a **sense of control** of their environment
- Provide a **place for meditation/reflection/faith**
- Provide a **variety of sitting layouts** to choose from



Individual needs design considerations

- Provide **charging stations** so that family can **stay connected**
- Keeping them comfortable using **ergonomic** furniture
- A **sleeping** sofa or a sleeping chair which **ensures comfort** for overnight stays

DESIGN GUIDANCE



SUPPORT AND PROTECTION

- Design a space that **supports patients and care providers needs** by **ensuring functionality and efficiency**, as well as incorporating safety measurements for the storage and disposal of hazardous materials which protects all the users.



PRIVACY AND PERSONAL SPACE

- Ensure different **levels of privacy** for the patients by providing spaces where privacy can be adjusted to their needs, which also provides personal space.



COHERENCE

- Design a space that is **consistent, in order, and forms a unified whole** which positively impacts the patient's perception of quality of care.



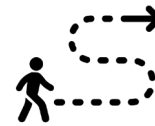
RESTORATION

- Provide **restorative opportunities for patients** by the incorporation of **warm materials and soothing colors**, which add a sense of calmness to the patient.
- Provide restorative opportunities for care givers by incorporating lounge area, which allows them to take a moment and decompress.



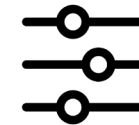
FLEXIBILITY

- Provide **flexible furniture and equipment** which can **adapt, shift function, and modify** in response to the evolving needs of patients and employees.



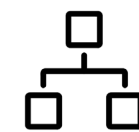
PATHS

- Ensure a **clear circulation** that would allow the users to **safely navigate the space**.



CONTROL

- Design a space where the **care givers** are **afforded a certain level of control over their working environment**, which would allowing them to feel comfortable and work more efficiently.



HIERARCHY

- Incorporate design elements that clearly **define patients, care providers and administration areas**.



PUBLIC

- Provide a **welcoming public space** by incorporating a **variety of seating arrangements, neutral color palette, and positive distractions**, which would allow the visitors to feel comfortable.



SECONDARY

- Incorporate **ergonomic furniture and equipment** in secondary spaces such as nurse stations and administration work areas to **ensure users maximum comfort**.

MATERIALITY BOARD

The intention of this materiality board is to guide the design towards an **impactful experience** that demonstrates **subtlety** through **sophistication and refinement**. The base materials being laid out in a structured way are perceived as orderly and intentional. The light tones of the whitewashed oak provides a **sense of warmth**, which is balanced and layered with natural materials and elements to create a **sensation of comfort and calmness**. This compliments the organic nature of the design and intends to create an experience of **retreat** where the luxury of relaxation is not typically afforded.

REFINEMENT

WARMTH

ORDER

CALMNESS

SOOTHING

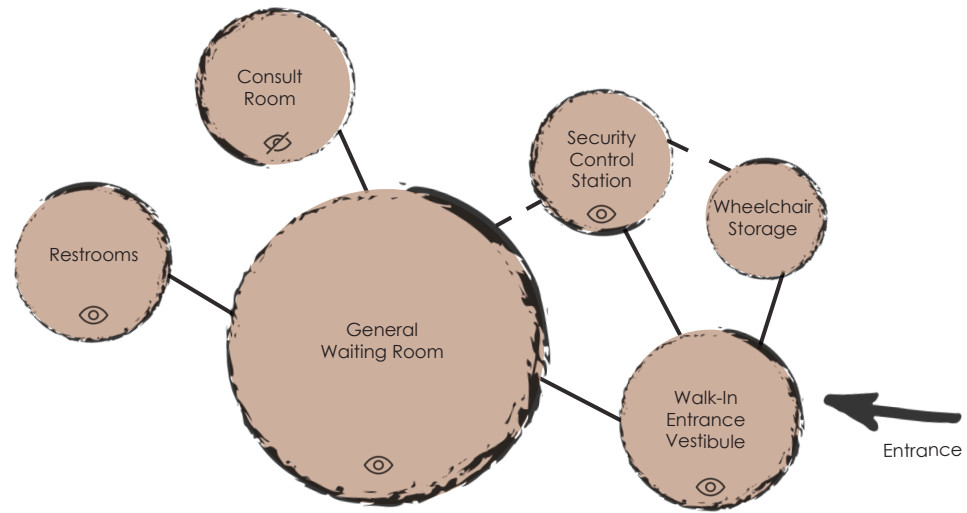
SUBTLE

SOPHISTICATION

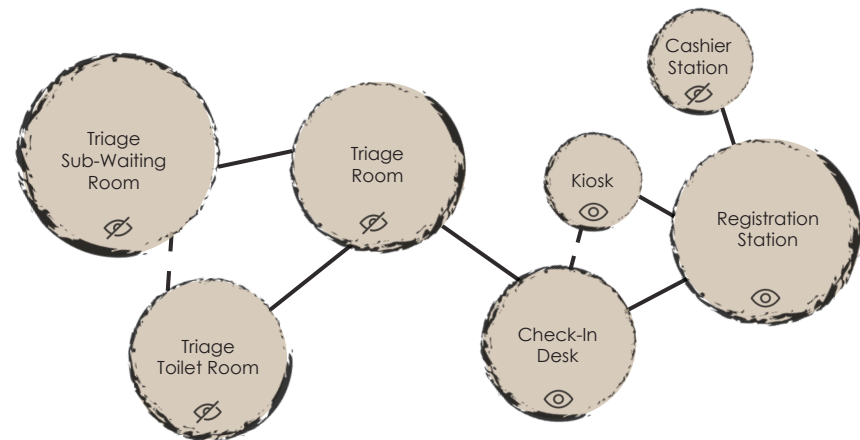
ORGANIC



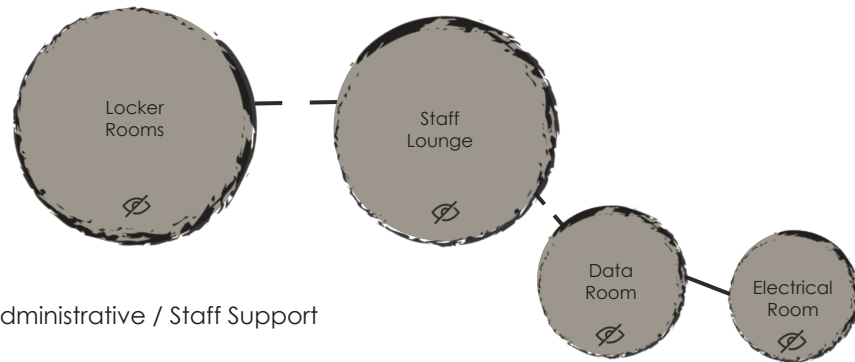
ADJACENCY DIAGRAMS



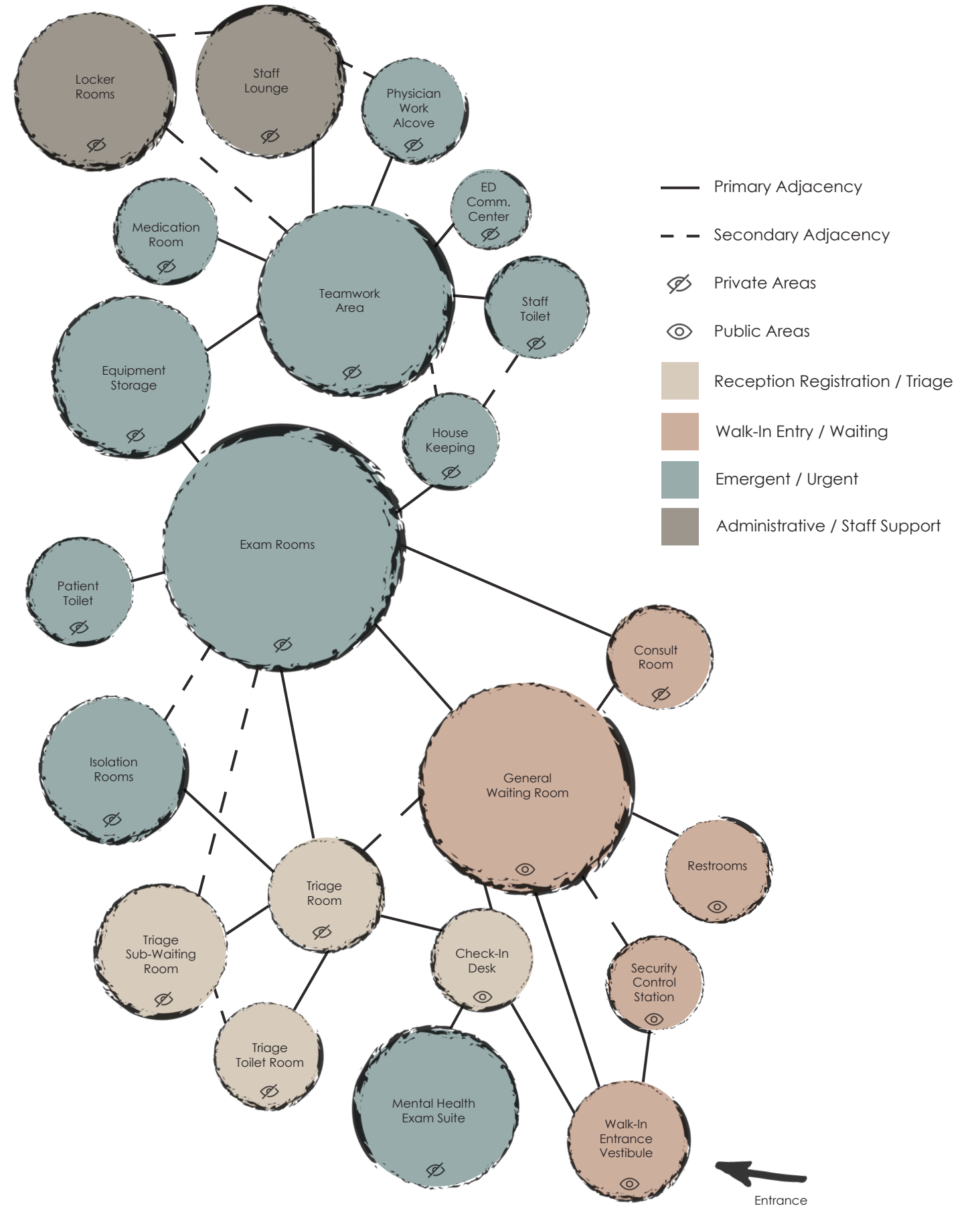
Walk-In Entry / Waiting



Reception Registration / Triage



Administrative / Staff Support



- Primary Adjacency
- - - Secondary Adjacency
- ⊘ Private Areas
- ⊙ Public Areas
- Reception Registration / Triage
- Walk-In Entry / Waiting
- Emergent / Urgent
- Administrative / Staff Support

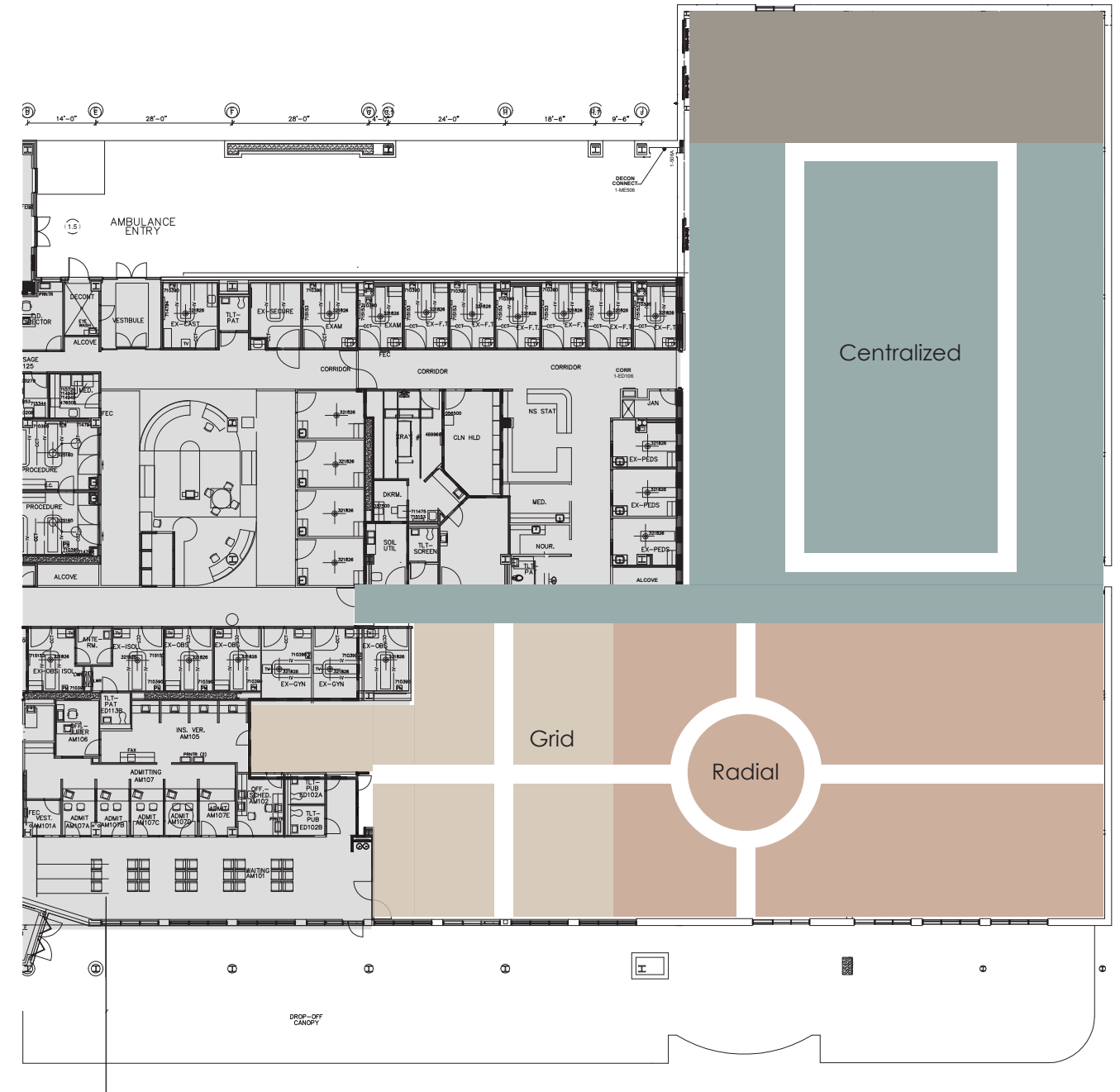
Entrance

ORGANIZATIONAL DIAGRAMS



Entry/Waiting
3,782 SF

Reception/Triage
1,466 SF

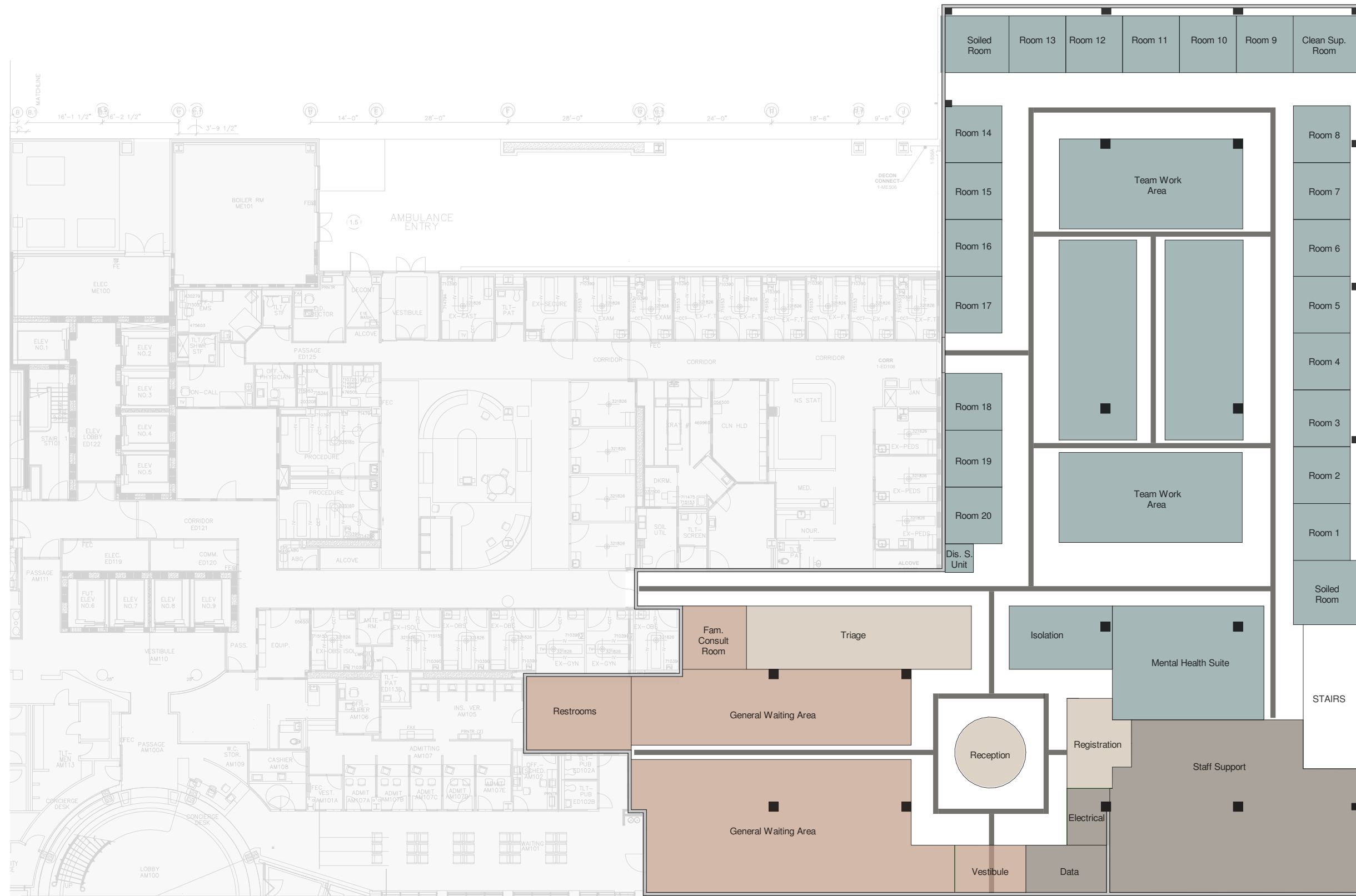


Emergent/Urgent
9,667 SF

Administrative/Staff Support
1,853 SF



FUNCTIONAL DIAGRAM



Entry/Waiting
3,782 SF

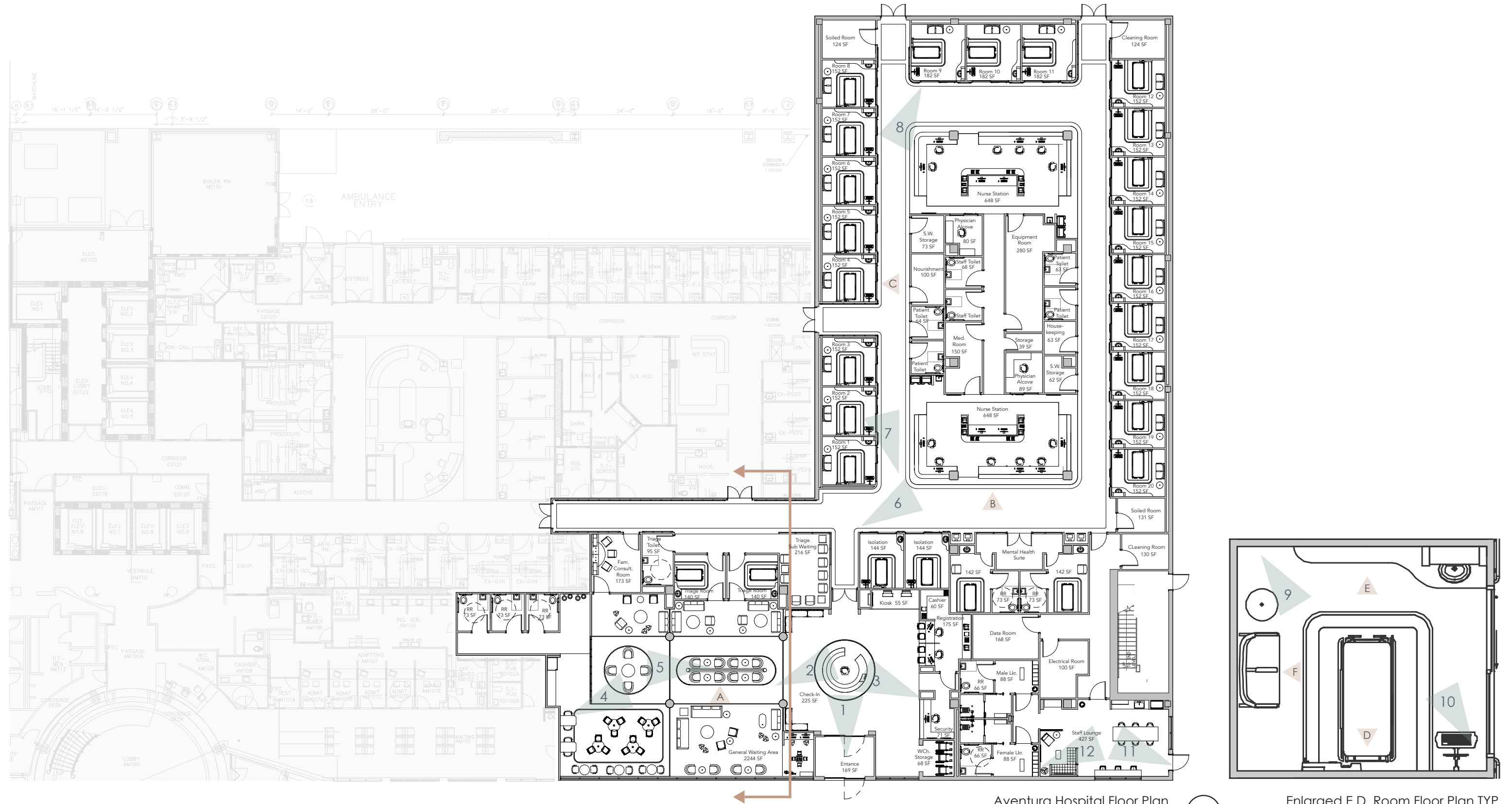
Reception/Triage
1,466 SF

Emergent/Urgent
9,667 SF

Administrative/Staff Support
1,853 SF

Circulation

FLOOR PLAN



Aventura Hospital Floor Plan
Scale: 3/64" - 1'-0"



Enlarged E.D. Room Floor Plan TYP

CEILING PLAN

Reception (Ambient and Task)

Provide sufficient lighting to allow visitors to navigate safely and employees to work comfortably.

Fc: 30
CRI: 90
Color Temp: 4000 K

Team Work (Ambient and Task)

Provide uniform lighting to allow for visual clarity for care providers to work comfortably and efficiently.

Fc: 50
CRI: 90
Color Temp: 45000 K

Corridor (Ambient)

Provide bright uniform lighting to create visual clarity for legibility and safety for visitors, patients, and care providers.

Fc: 20
CRI: 90
Color Temp: 4000 K

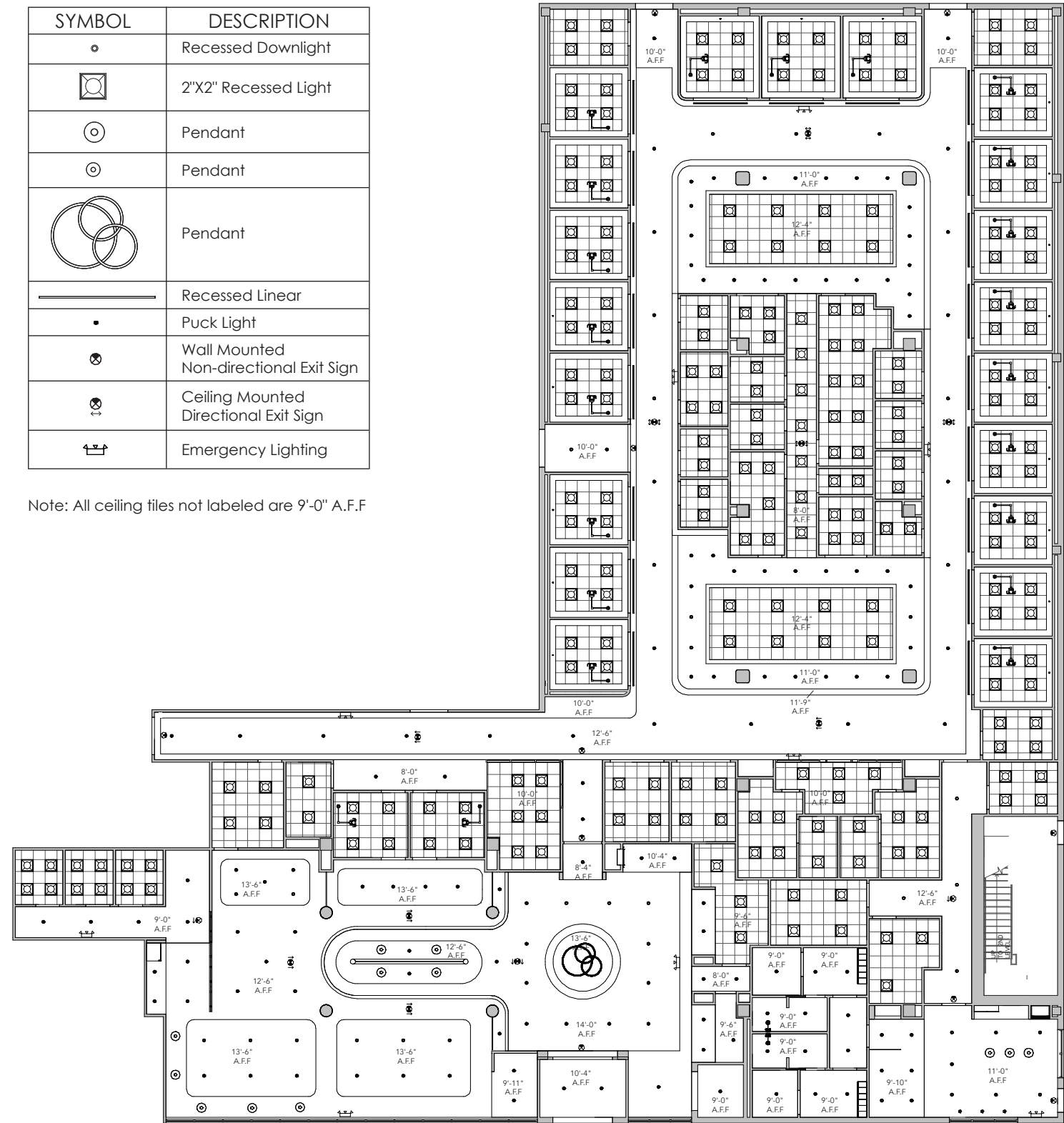
Exam Room (Ambient, Focused and Task)

Provide uniform lighting throughout the space and adjustable task lighting to allow care providers to examine the patient effectively.

Fc: 90
CRI: 90
Color Temp: 4500 K

SYMBOL	DESCRIPTION
•	Recessed Downlight
◻	2"X2" Recessed Light
⊙	Pendant
⊙	Pendant
⊙	Pendant
—	Recessed Linear
•	Puck Light
⊗	Wall Mounted Non-directional Exit Sign
⊗	Ceiling Mounted Directional Exit Sign
↑↑	Emergency Lighting

Note: All ceiling files not labeled are 9'-0" A.F.F



4" Recessed Downlight
Spacing Criteria
@ 0 = 1.2 / @ 90 = 1.23



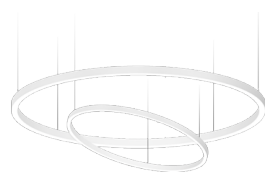
2"x2" Recessed Light
Spacing Criteria
@ 0 = 1.12 / @ 90 = 1.31



Recessed Linear
Spacing Criteria
@ 0 = 1.22 / @ 90 = 1.22



Puck Light
Spacing Criteria
@ 0 = 1.24 / @ 90 = 1.24



Pendant



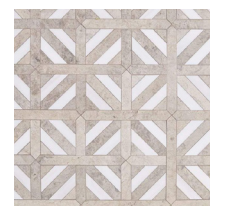
Pendant



ENTRANCE/RECEPTION



Flooring



Flooring



Oak Veneer



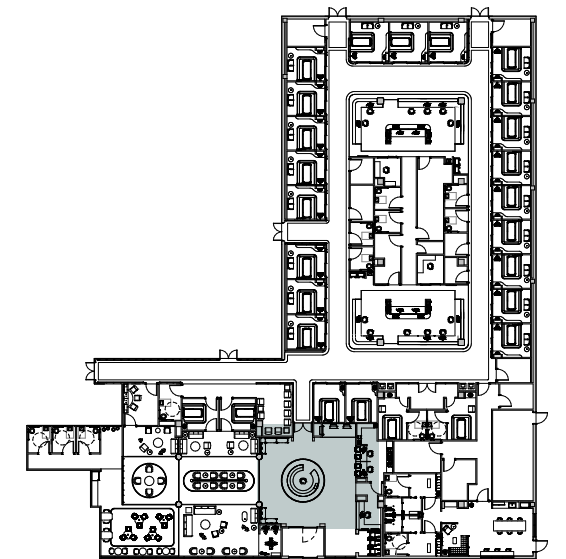
Wall



Seating



Wall



Perspective 1

RESTORATION: Provide **restorative opportunities** by the incorporation of **warm materials and soothing colors**, which add a sense of calmness.

ENTRANCE/RECEPTION



Flooring



Flooring



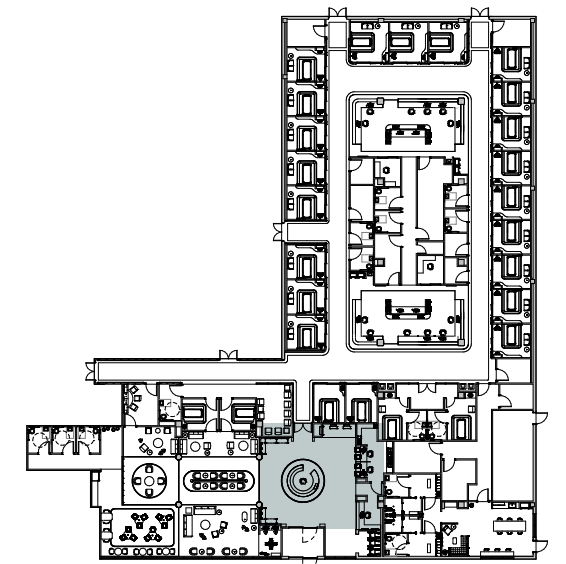
Oak Veneer



Wall



Wall



Perspective 2

COHERENCE: Design a space that is **consistent, in order, and forms a unified whole**, which positively impacts the patient's perception of quality of care.

ENTRANCE/RECEPTION



Flooring



Flooring



Oak Veneer



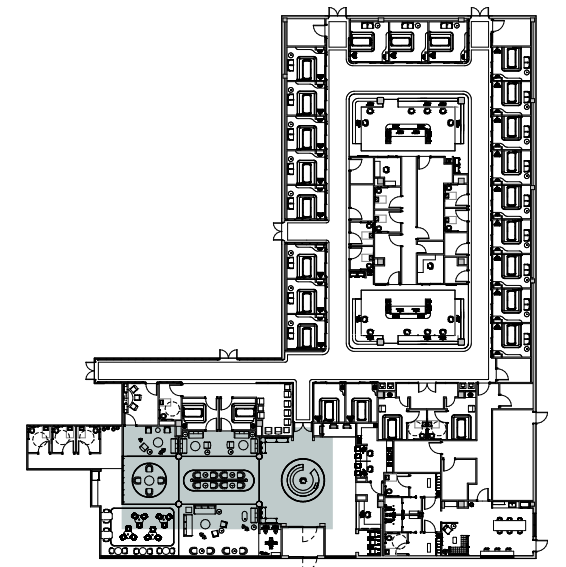
Wall



Seating



Wall



Perspective 3

PATHS: Ensure a **clear circulation** that would allow the users to **safely navigate the space**.

RECEPTION DESK



Front Elevation



North Elevation

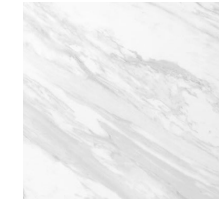


Back Elevation



South Elevation

WAITING AREA



Flooring



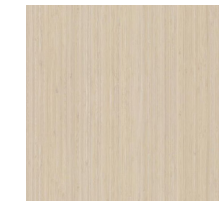
Flooring



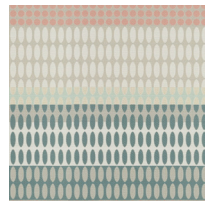
Flooring



Flooring



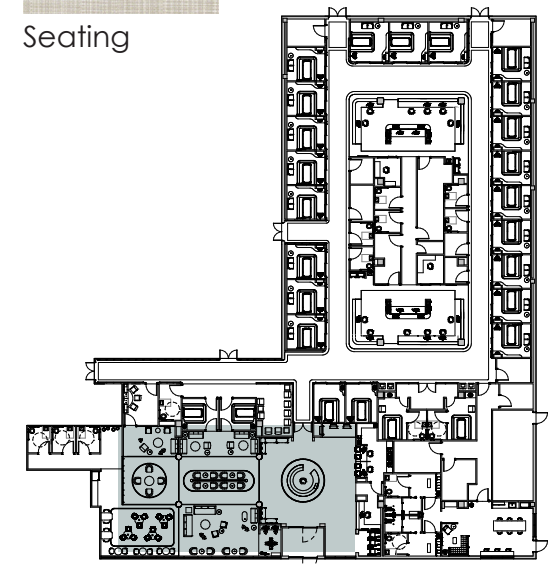
Oak Veneer



Seating



Seating



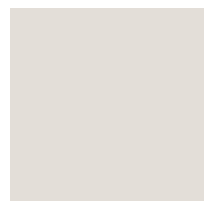
Perspective 4

PUBLIC: Provide a **welcoming public space** by incorporating a **variety of seating arrangements, neutral color palette, and positive distractions.**

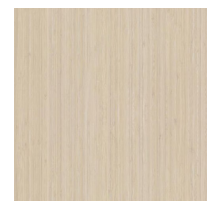
SEATING ELEVATION



Wall



Wall



Oak Veneer



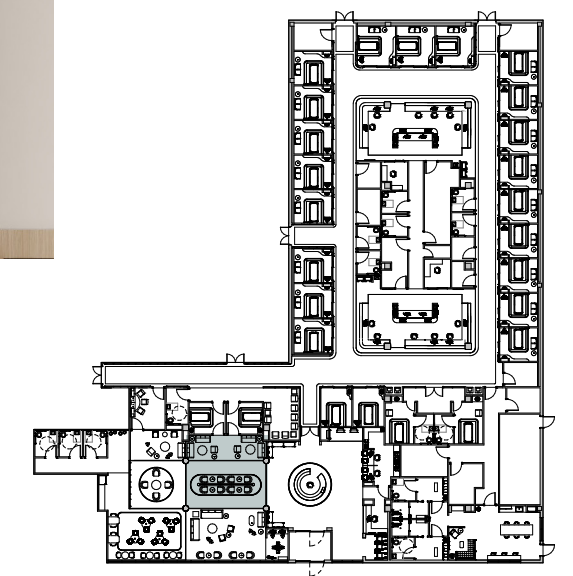
Seating



Seating



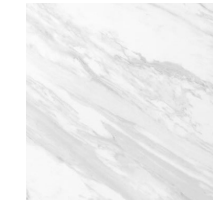
Partition



Elevation A

PRIVACY AND PERSONAL SPACE: Ensure different **levels of privacy** for visitors and patients.

WAITING AREA



Flooring



Flooring



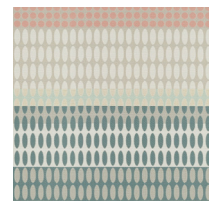
Flooring



Oak Veneer



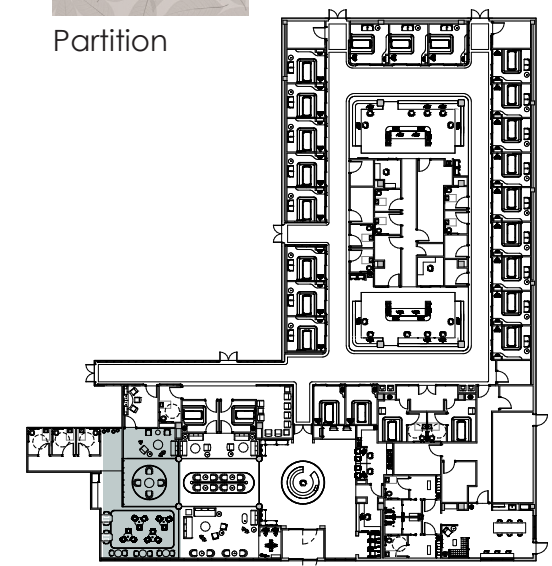
Seating



Seating



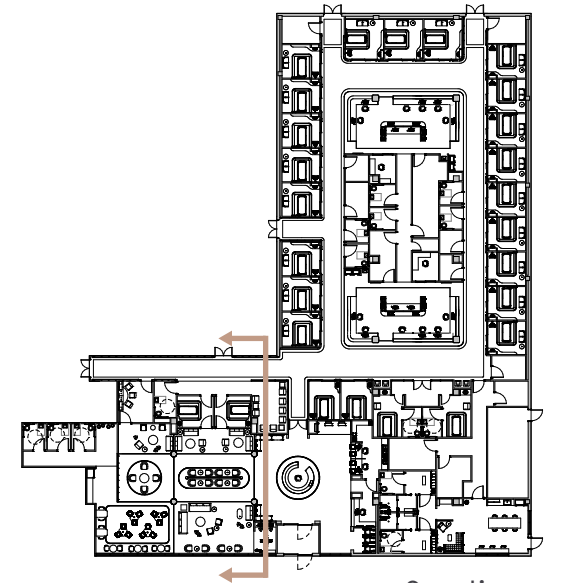
Partition



Perspective 5

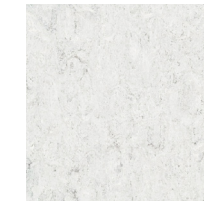
PUBLIC: Provide a **welcoming public space** by incorporating a **variety of seating arrangements, neutral color palette, and positive distractions.**

SECTION ELEVATION

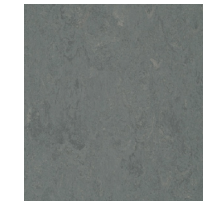


Section

NURSE STATION



Flooring



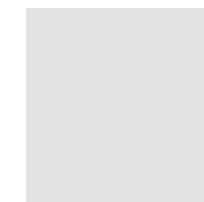
Flooring



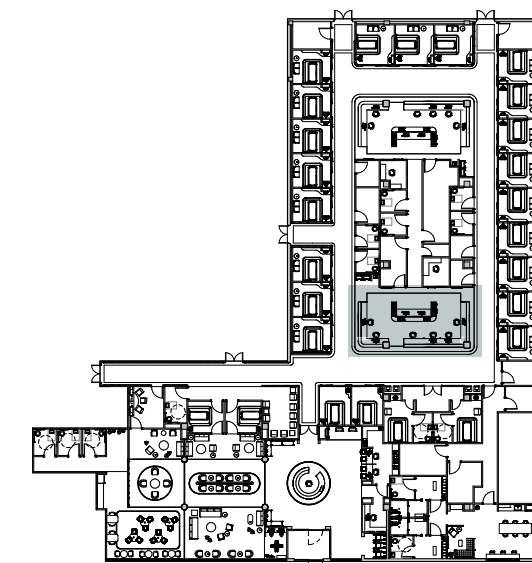
Oak Veneer



Wall



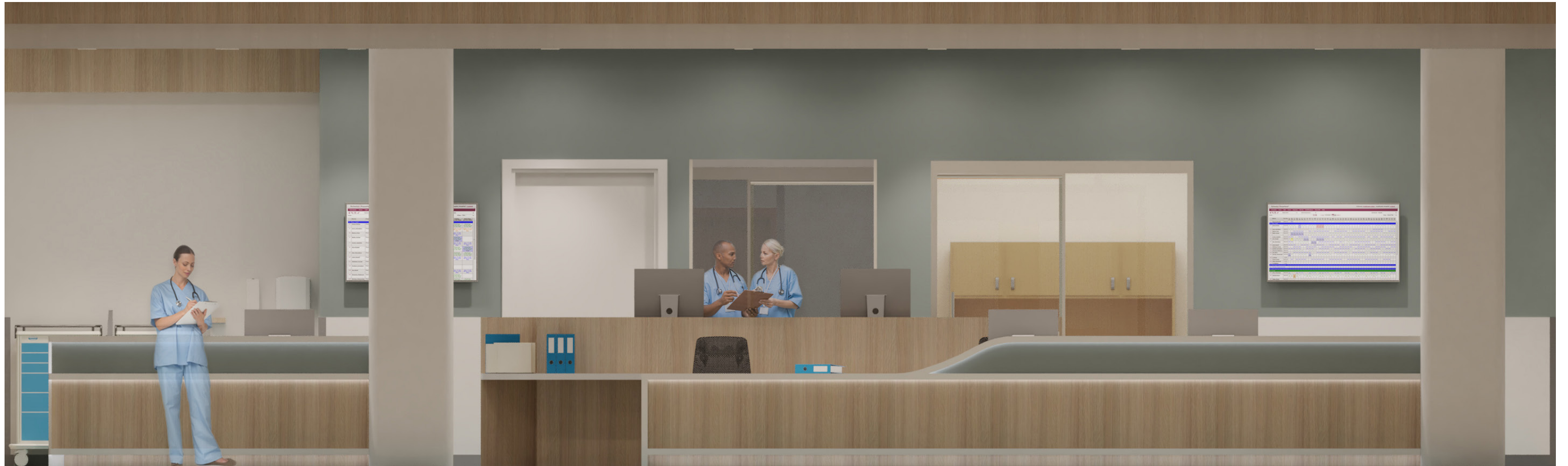
Wall



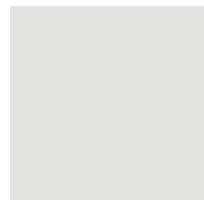
Perspective 6

HIERARCHY: Incorporate design elements that clearly **define patients, care providers and administration areas.**

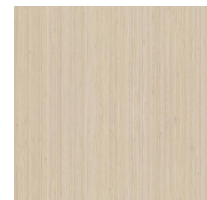
NURSE STATION ELEVATION



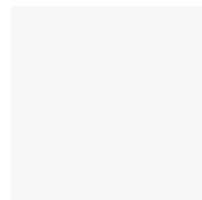
Wall



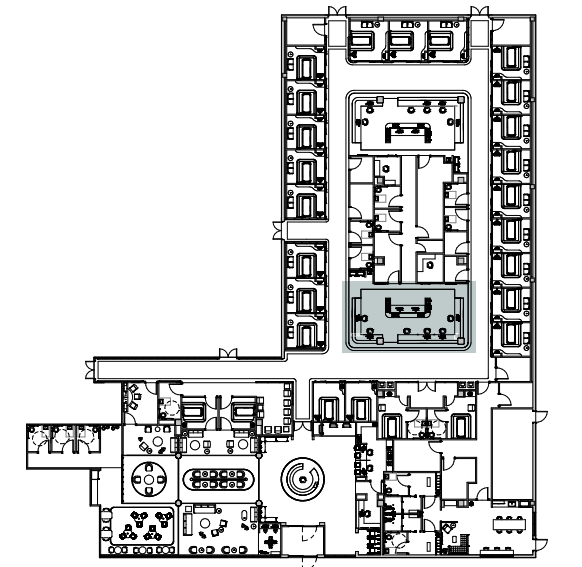
Wall



Oak Veneer



Counter top



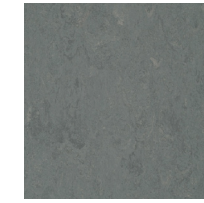
Elevation B

FLEXIBILITY: Provide **flexible areas** which can **adapt** in response to the evolving needs of care givers.

EMERGENCY ROOM HALLWAY



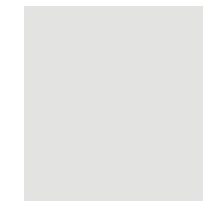
Flooring



Flooring



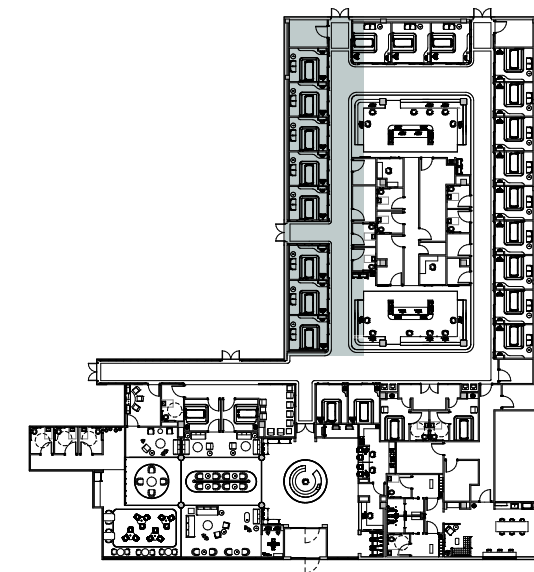
Oak Veneer



Wall



Wall



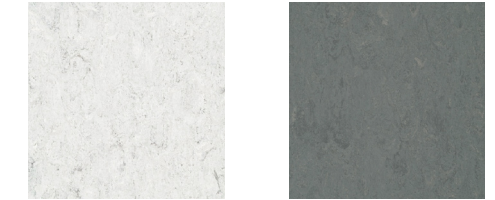
Perspective 7



Elevation C

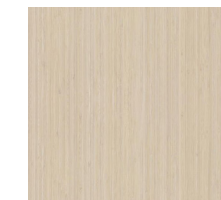
PATHS: Ensure a **clear circulation** that would allow the users to **safely navigate the space**.

NURSE STATION

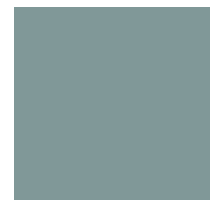


Flooring

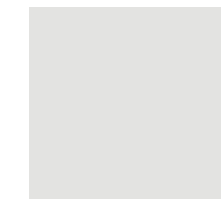
Flooring



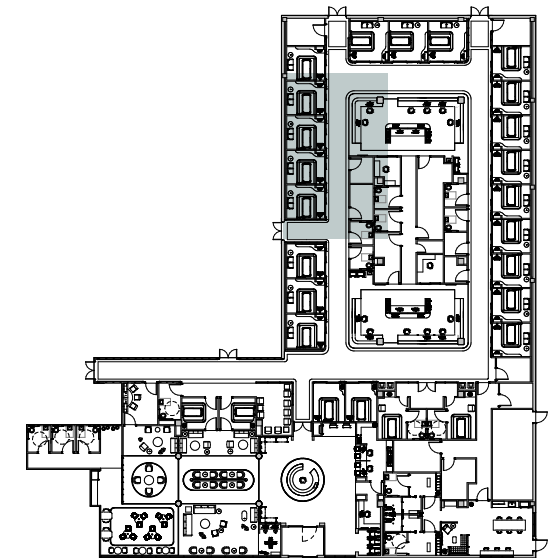
Oak Veneer



Wall



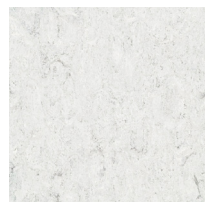
Wall



Perspective 8

COHERENCE: Design a space that is **consistent, in order, and forms a unified whole** which positively impacts the patient's perception of quality of care.

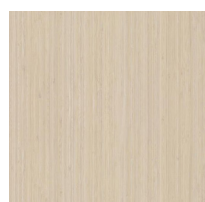
EMERGENCY ROOM



Flooring



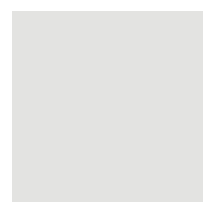
Flooring



Oak Veneer



Seating

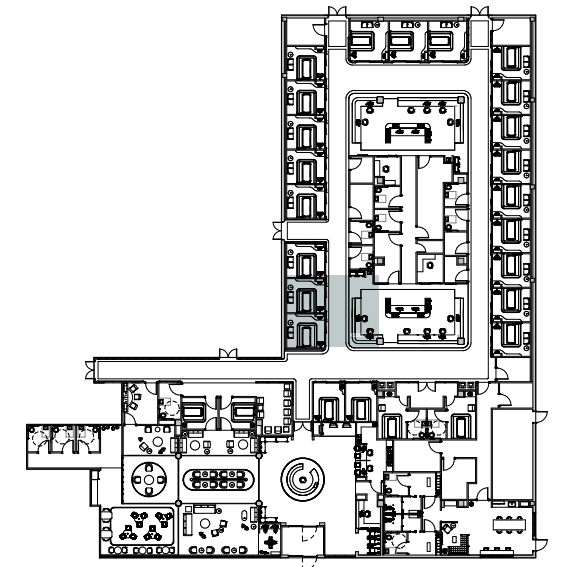


Wall



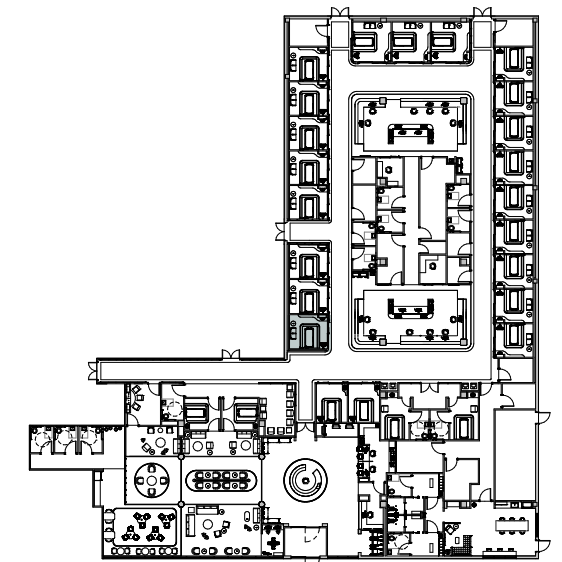
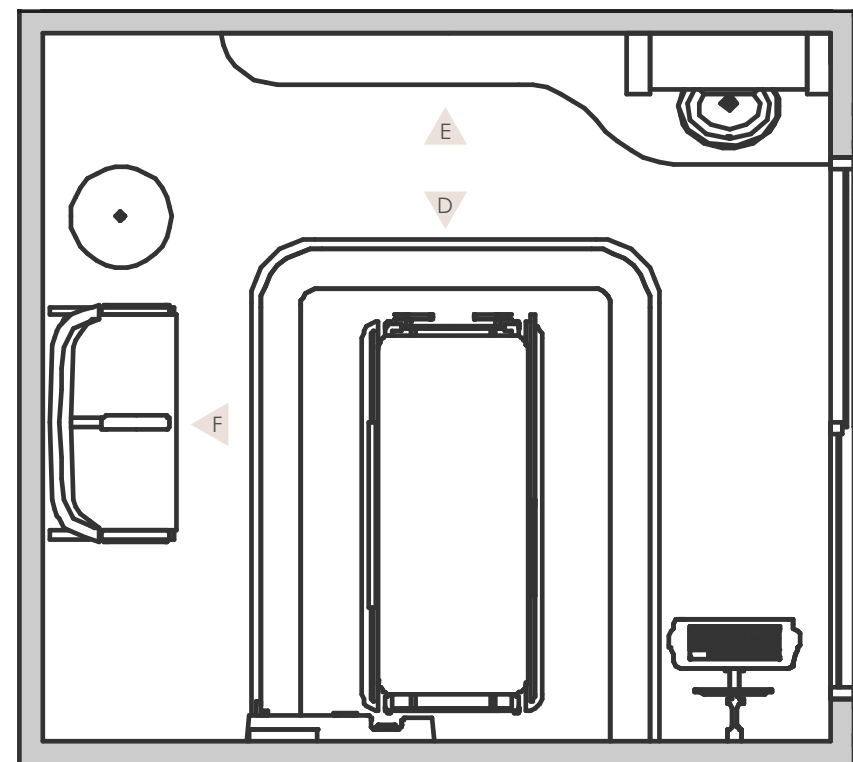
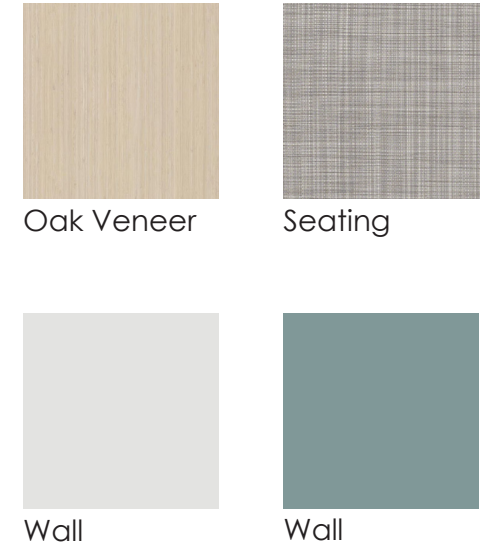
Wall

SUPPORT AND PROTECTION: Design a space that **supports patients and care providers needs** by **ensuring functionality and efficiency**, as well as incorporating safety measurements for the storage and disposal of hazardous materials which protects all the users.



Perspective 9 & 10

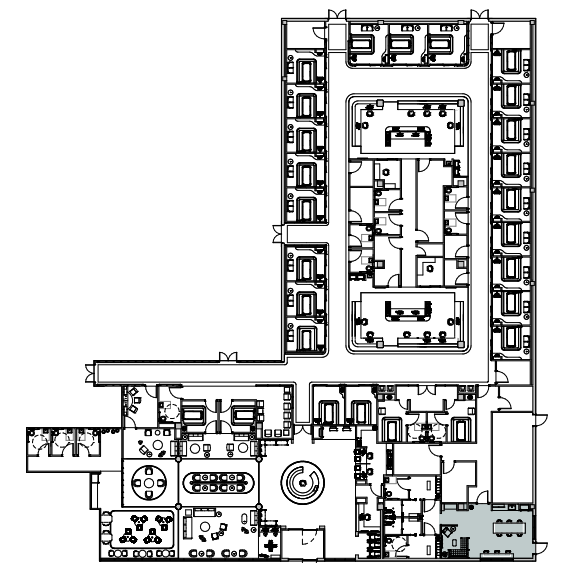
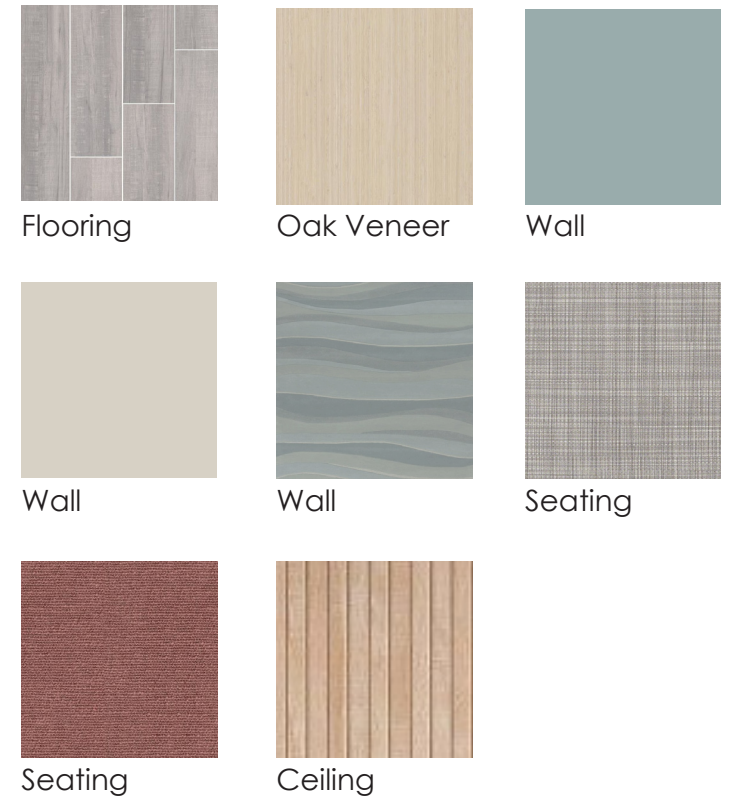
EMERGENCY ROOM ELEVATIONS



Elevation D, E & F

CONTROL: Design a space where the **care givers** are **afforded a certain level of control over their working environment**, which would allowing them to feel comfortable and work more efficiently.

STAFF LOUNGE



Perspective 11

RESTORATION: Provide restorative opportunities for care givers by incorporating lounge areas, which allows them to decompress.

STAFF LOUNGE



Flooring



Oak Veneer



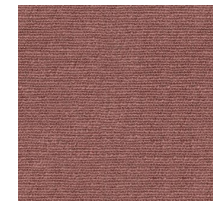
Wall



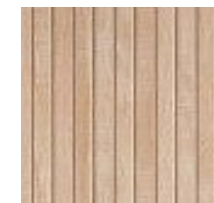
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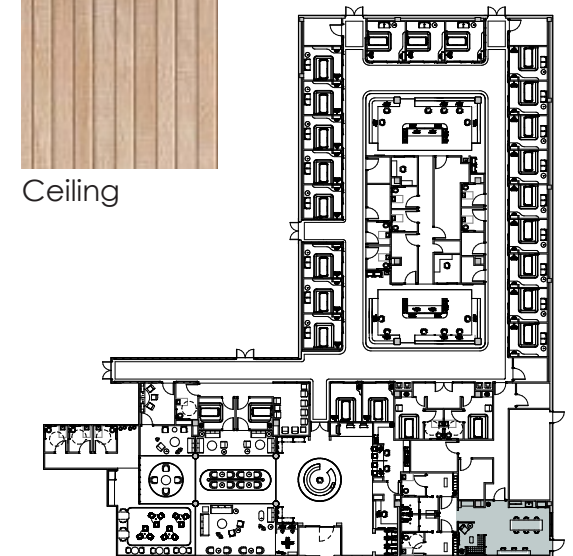
Wall



Seating



Ceiling



Perspective 12

SUPPORT AND PROTECTION: Design a space that **supports care providers needs** by **ensuring functionality and efficiency.**

THANK YOU!

