



BEYOND MEMORY

A PERSON-CENTERED APPROACH TO
DEMENTIA CARE DESIGN

SAMMY QUAAL

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Project Goals



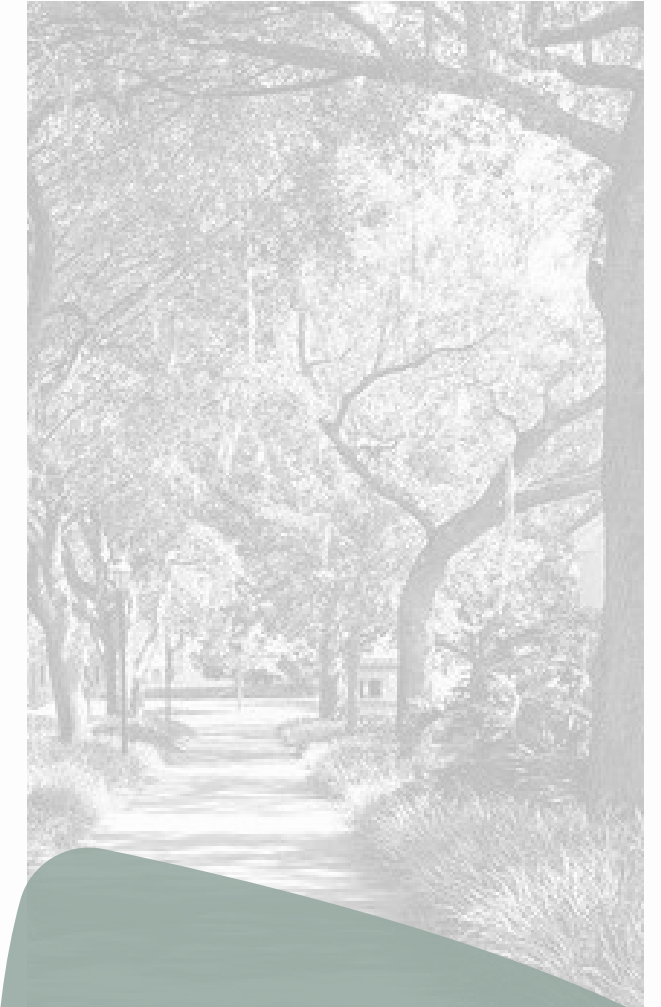
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Location



04

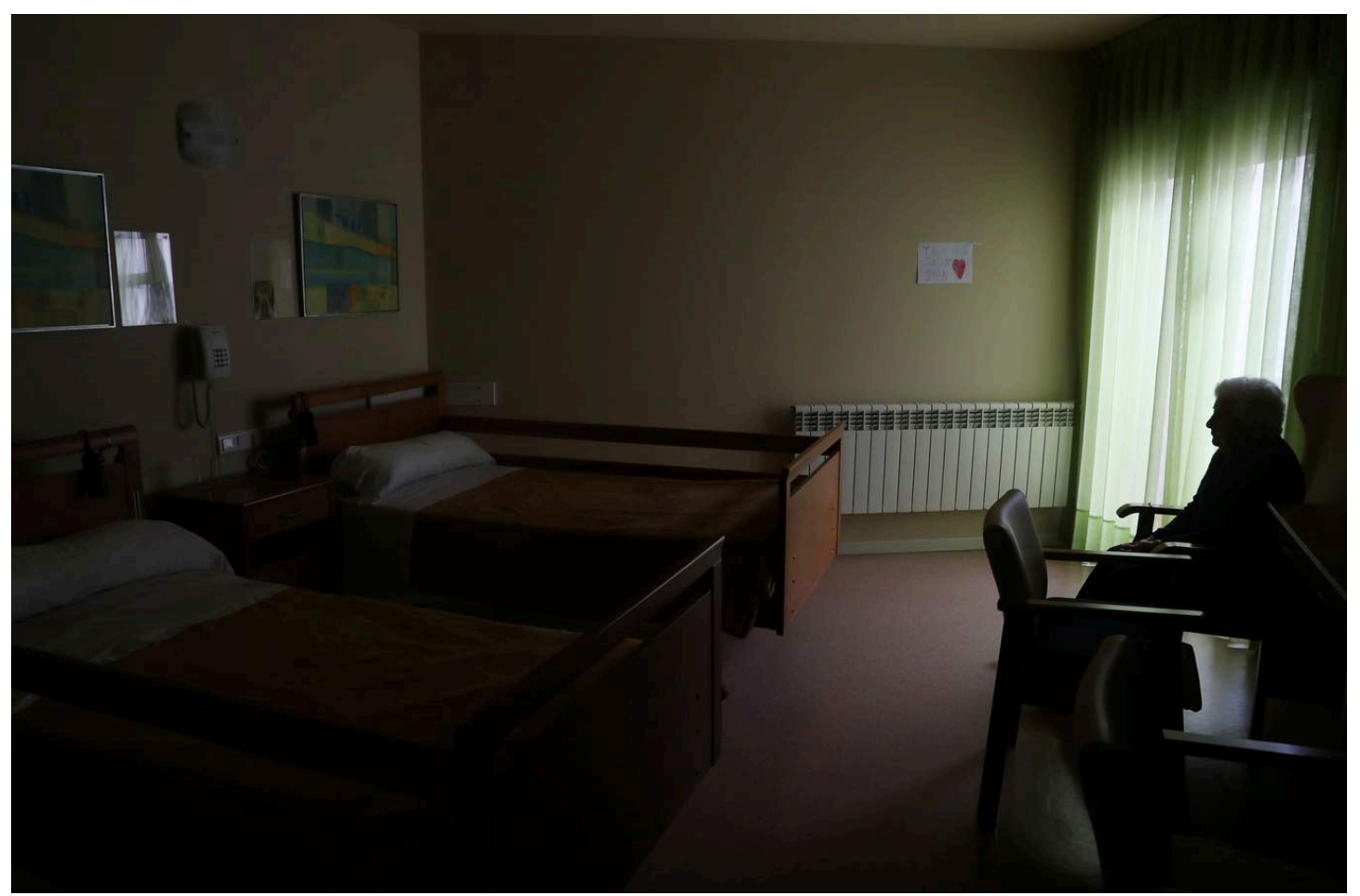
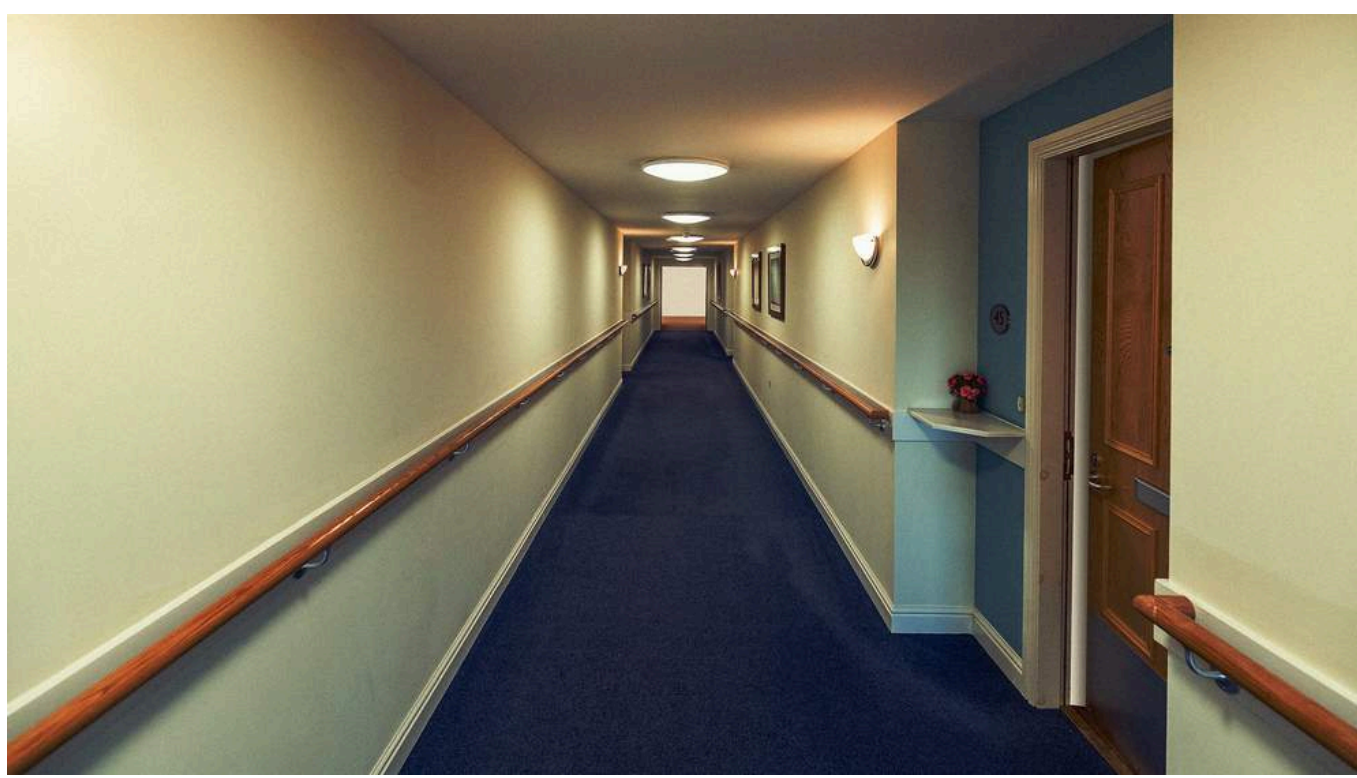
Process



05

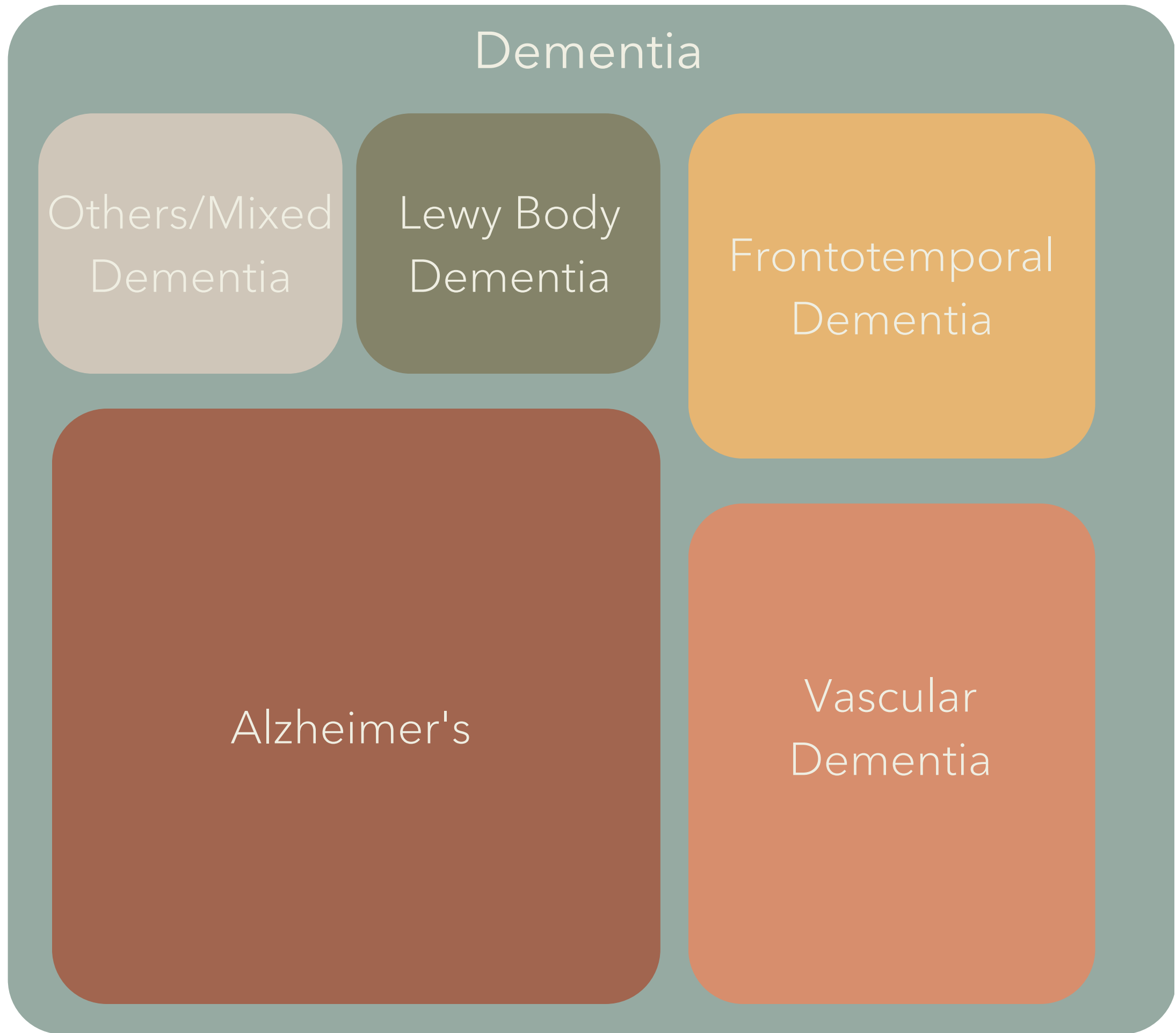
Programming

PROBLEM



BUYS, L., & KENNEDY, R. (2022, February 23). One reason nobody wants to live in a nursing home? they're terribly designed. <https://www.fastcompany.com/90724102/nobody-wants-to-live-in-a-nursing-home-because-theyre-terribly-designed>
Dikes, B. (2020, April 22). We wait in our nursing home, helpless and scared, knowing the virus is coming for US - The Washington Post. https://www.washingtonpost.com/outlook/we-wait-in-our-nursing-home-helpless/2020/04/22/8900c0c4-83f4-11ea-a3eb-e9fc93160703_story.html
Godfrey, E. (2020, December 24). The Last Days of Loneliness. The Atlantic. <https://www.theatlantic.com/politics/archive/2020/12/nursing-home-residents-wait-covid-vaccine/617458>
Images, C. (n.d.). Nursing+Home+Sad images - browse 7,479 stock photos, vectors, and video. Adobe Stock. https://stock.adobe.com/search?k=nursing%2Bhome%2Bsad&asset_id=207860016
Investigate nursing home neglect. A Communication & Social Media Blog. (2016, April 12). <https://alicemfisher.wordpress.com/2016/04/11/investigate-texas-elder-care-abuses/>
The Boston Globe. (2021, March 23). This doctor works in several local nursing homes. how more than a year of covid-19 has impacted him and his colleagues. Boston.com. <https://www.boston.com/news/coronavirus/2021/03/23/asif-merchant-nursing-homes-covid/>

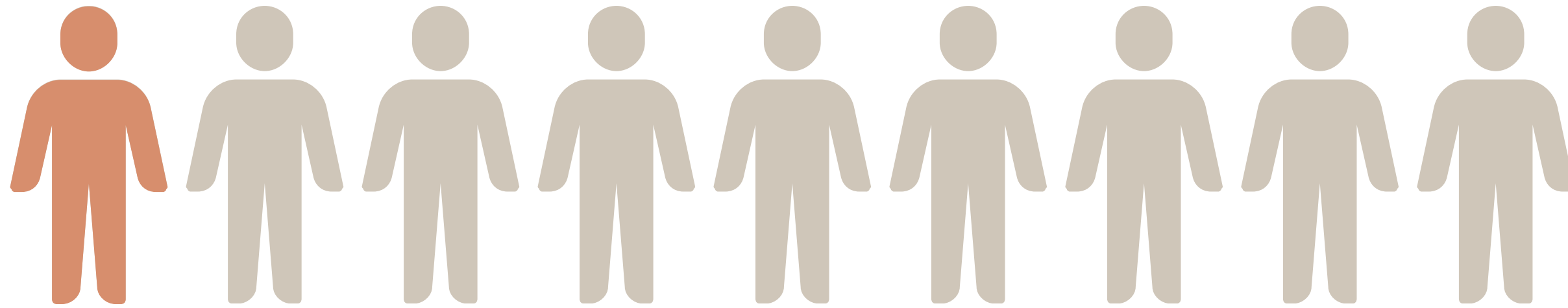
WHAT IS IT?



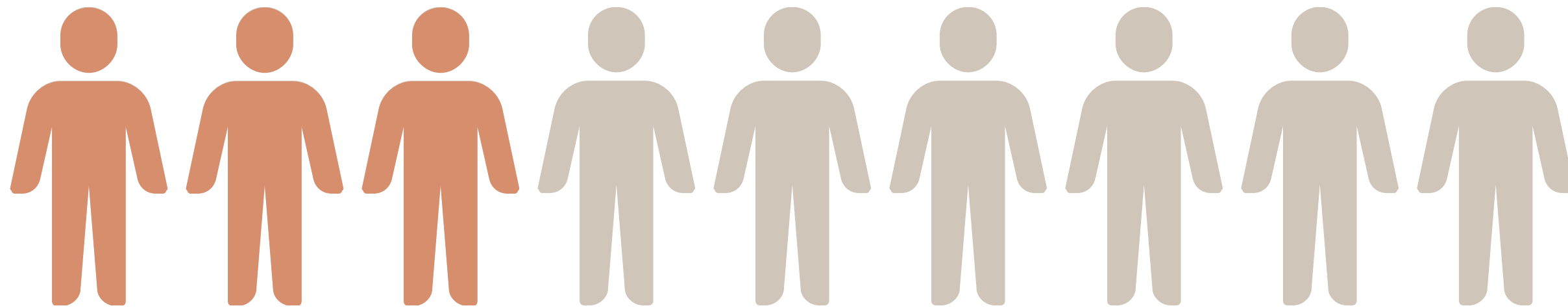
WHY



65 and older :



85 and older :



STAGES AND PROGRESSION

Early Stages



Moderate Stages



Later Stages



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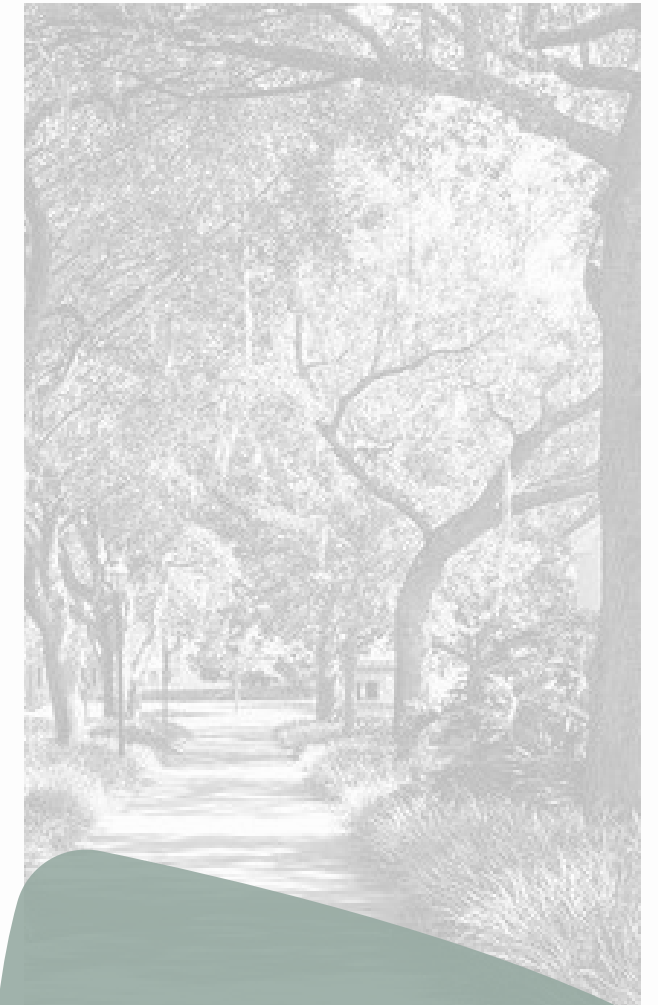
03

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Programming

Black & White. Eyeteeth. (2017, March 4). <https://eyeteeth.net/tag/black-white/>

Datachie. (2023, November 24). What is Long Term Care Insurance?. Senior Benefit Services. <https://seniorbenefitclient.com/what-is-long-term-care-insurance/>

Klein, sarah. (2017, March 2). 4 signs of alzheimer's disease that have nothing to do with memory loss | prevention. Prevention. <https://www.prevention.com/health/g20428754/4-signs-of-alzheimers-that-arent-memory-loss/>

Moss, L. (2019, May 28). A look at the Architectural Design Process / MYD Architecture + design blog / moss yaw design studio. Moss Yaw Design studio. <https://www.mydstudio.com/blog/a-look-at-the-architectural-design-process>

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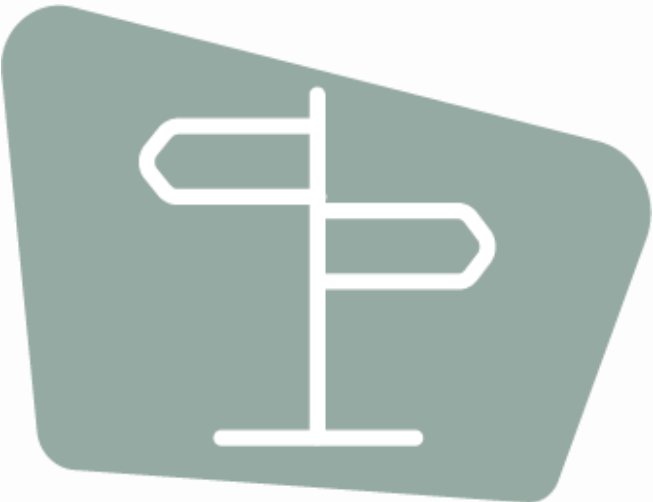
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Salutogenic Design



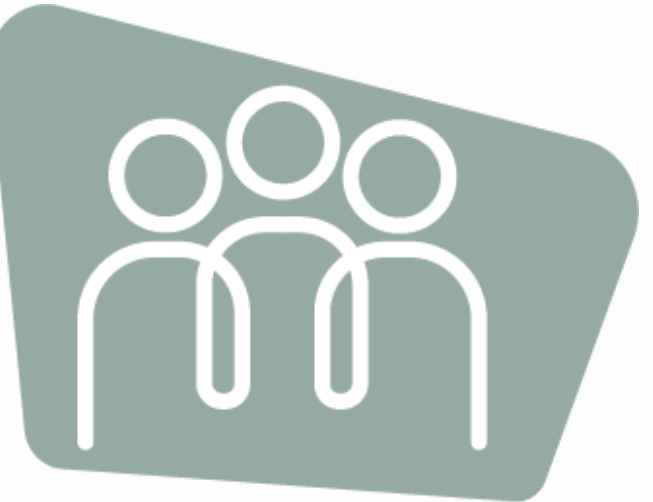
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Biophilic Design



Community Connection

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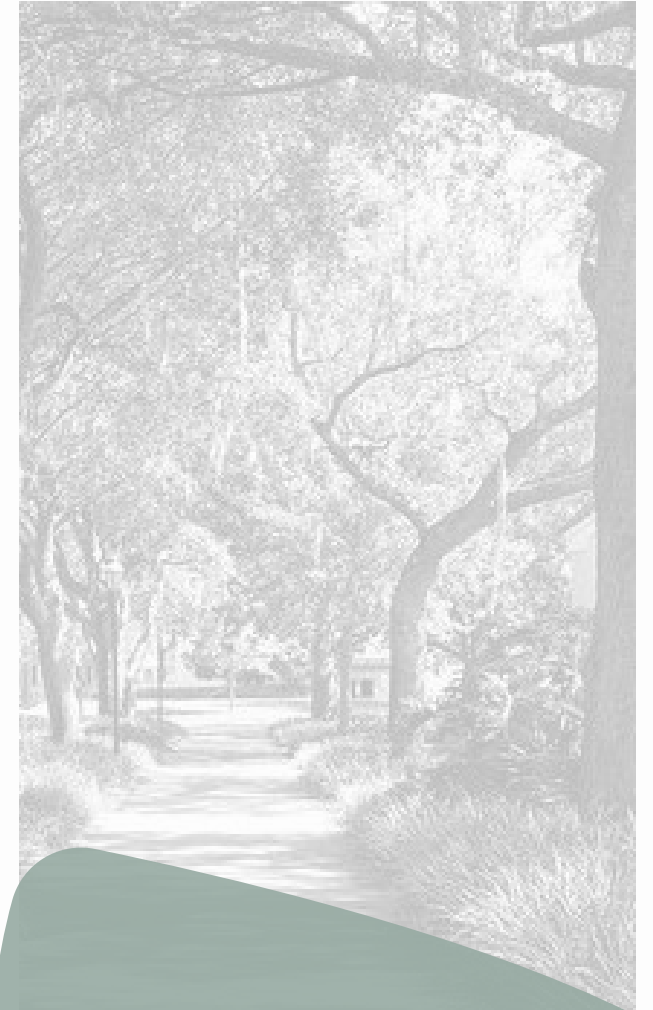
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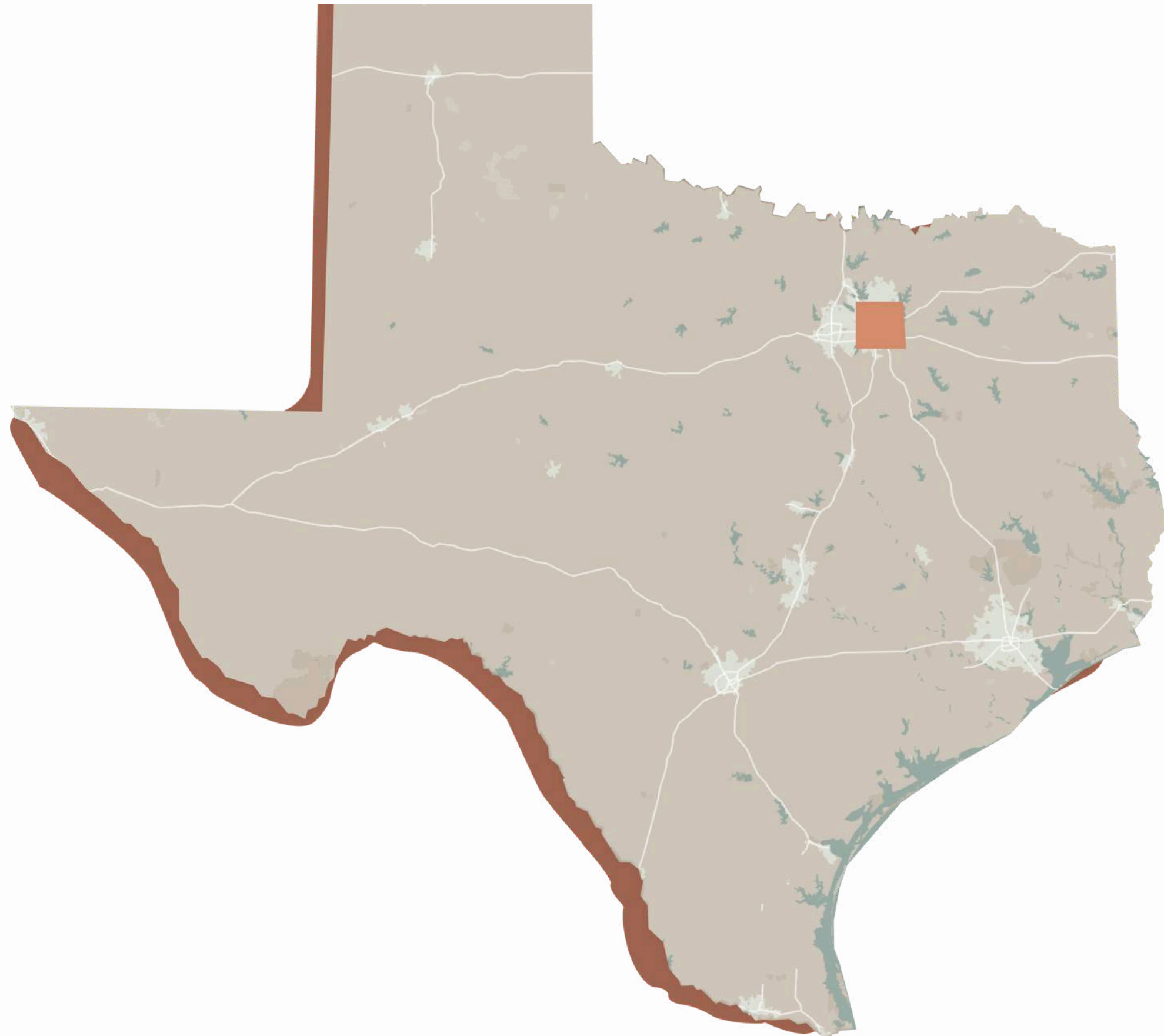
Datachie. (2023, November 24). What is Long Term Care Insurance?. Senior Benefit Services. <https://seniorbenefitclient.com/what-is-long-term-care-insurance/>

klein, sarah. (2017, March 2). 4 signs of alzheimer's disease that have nothing to do with memory loss | prevention. Prevention. <https://www.prevention.com/health/g20428754/4-signs-of-alzheimers-that-arent-memory-loss/>

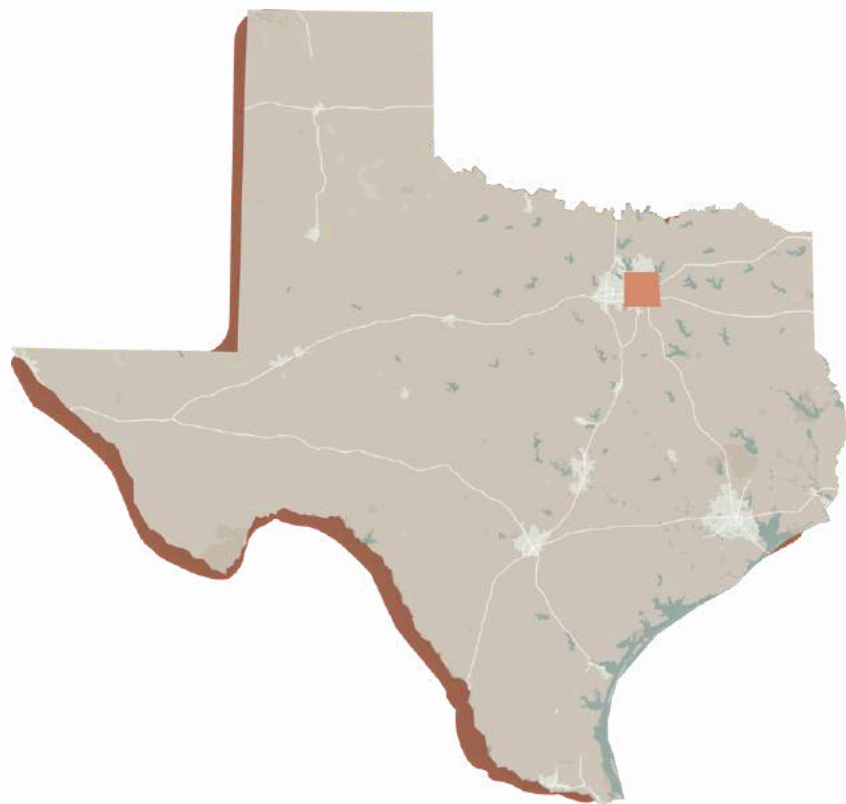
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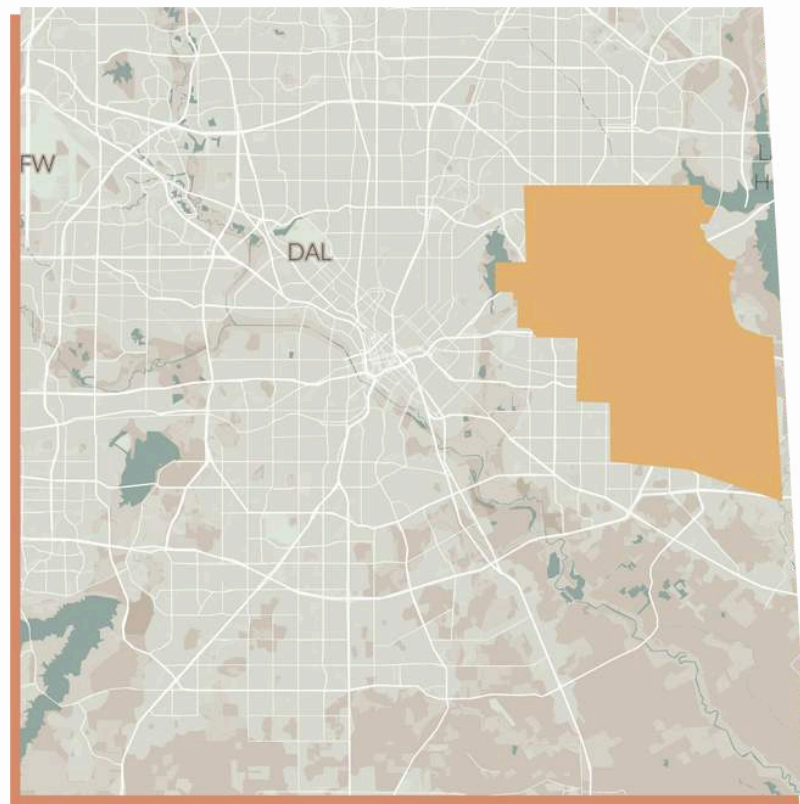
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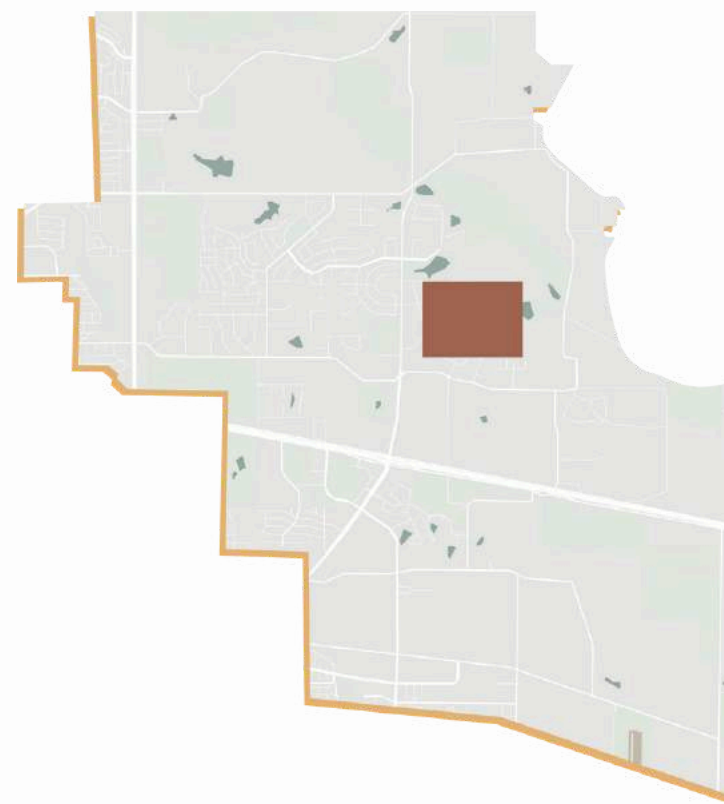
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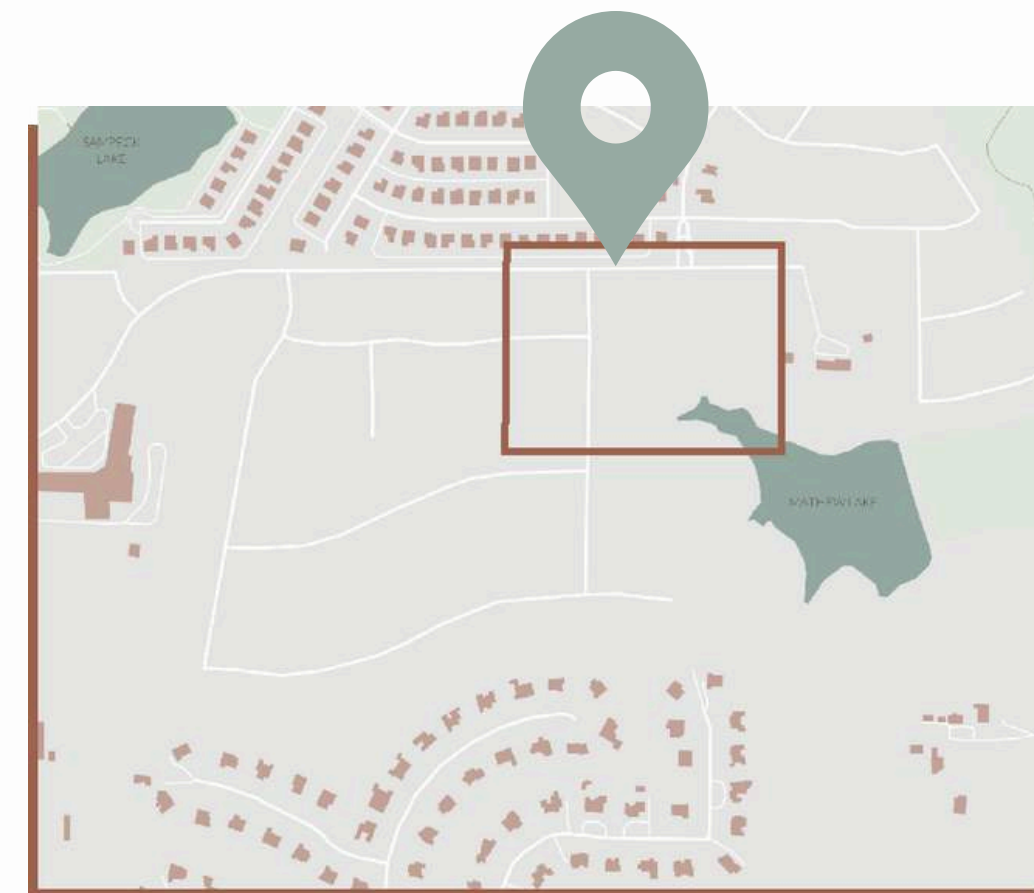
Dallas County, Texas



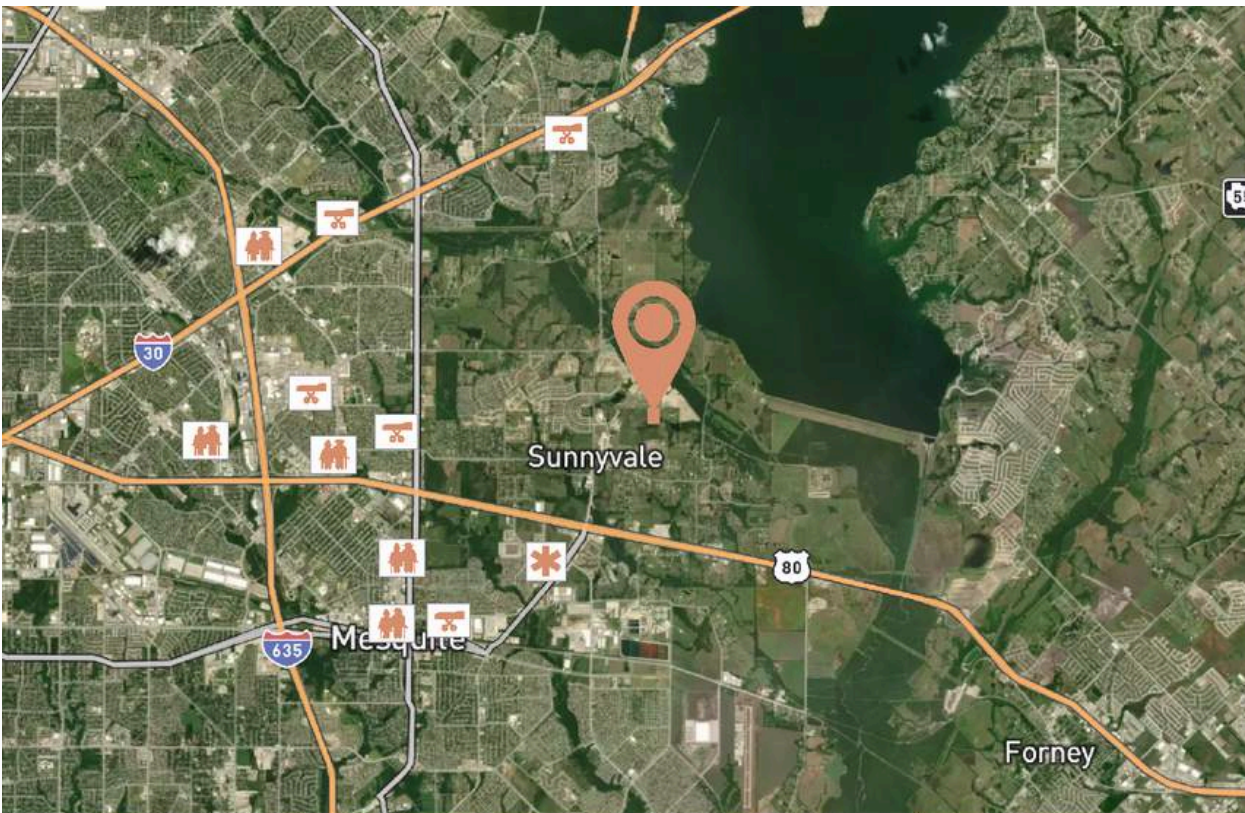
Sunnyvale, Dallas county



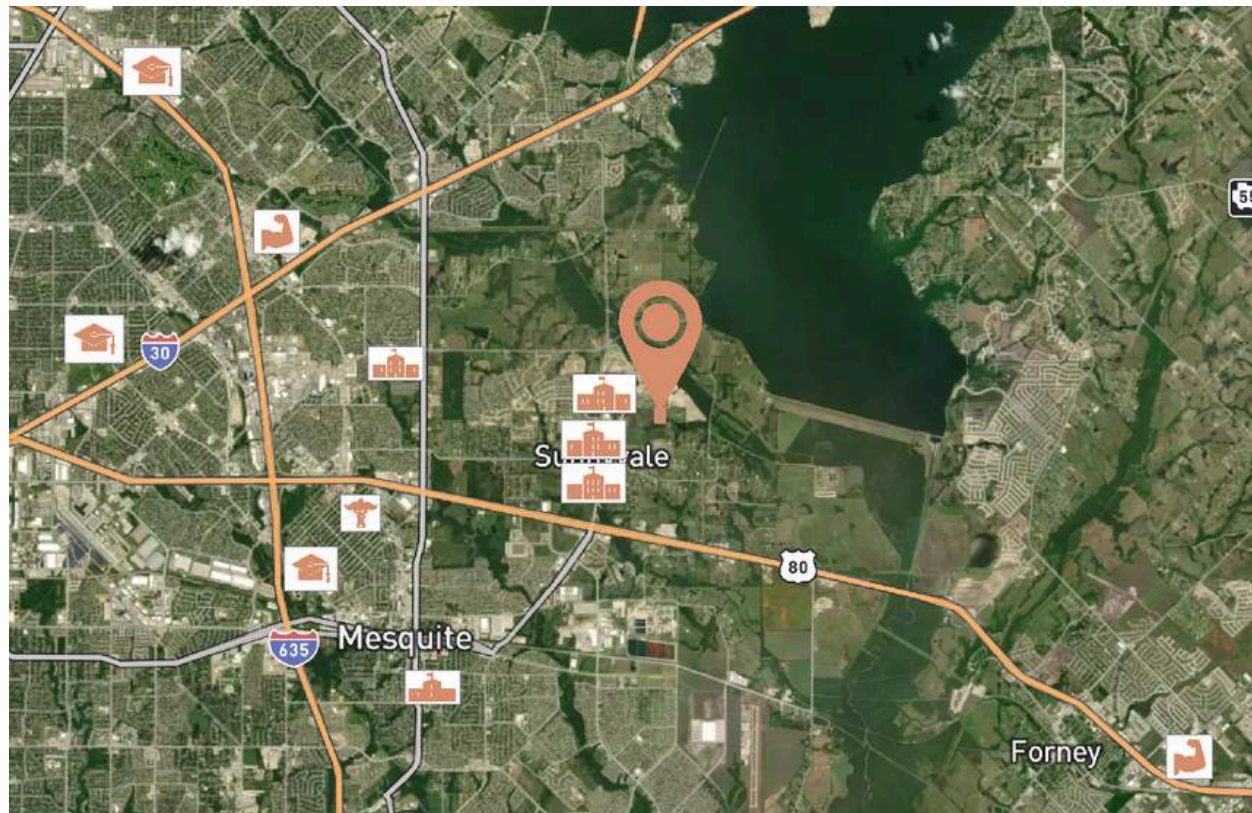
Site, Sunnyvale



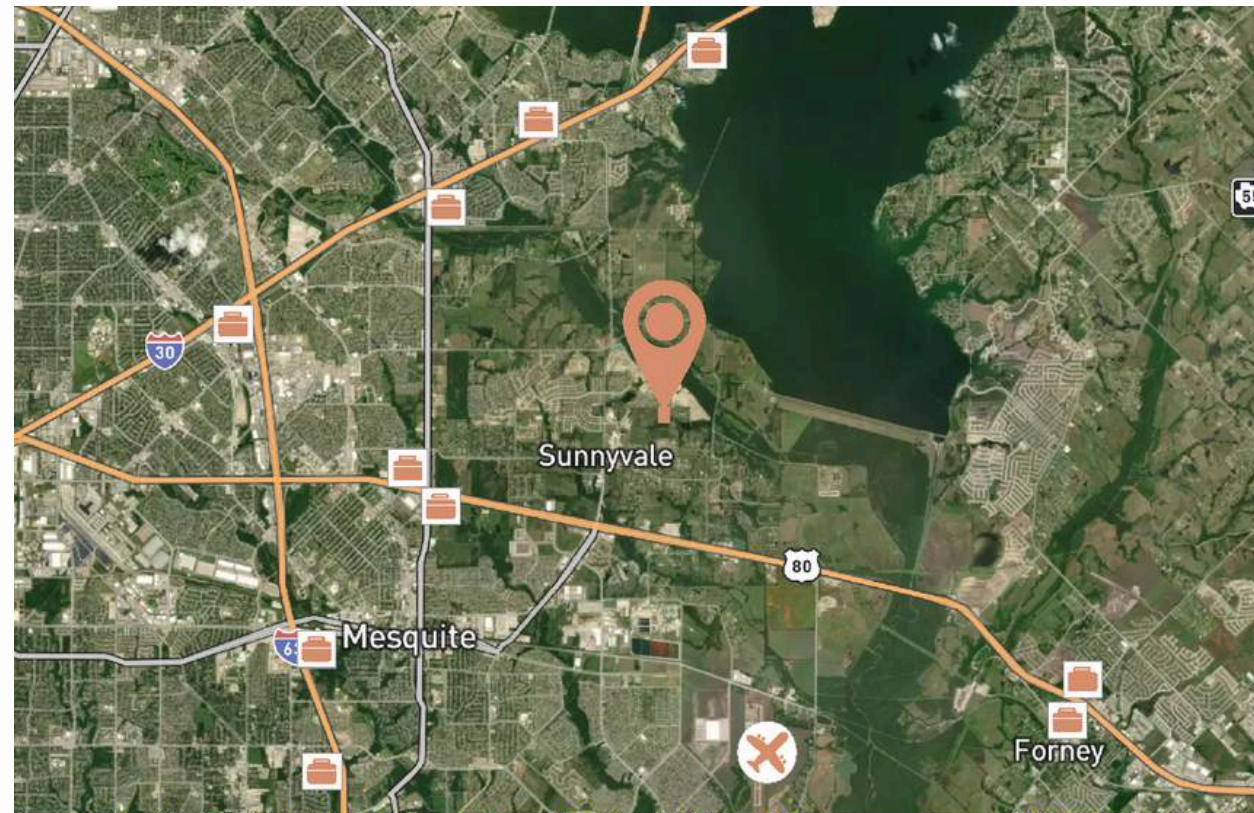
Site



 = Geriatric Clinic  = Hospice  = Hospital



 = Occupational Therapy School  = Nursing School
 = Physical Therapy School  = K12 Schools



 = Hotel  = Airport



View Looking North



View Looking West



View Looking South



View Looking East

SITE



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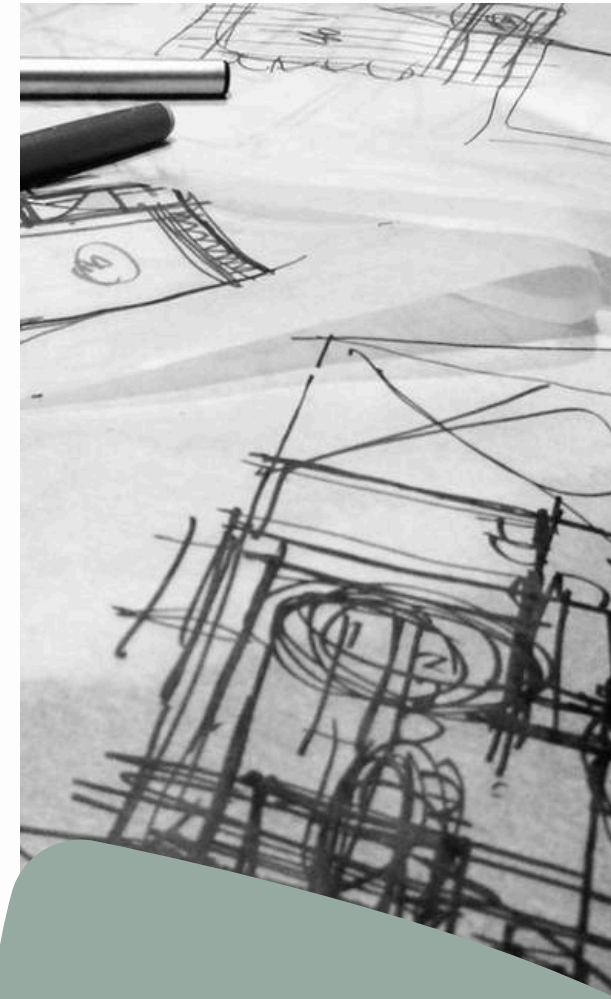
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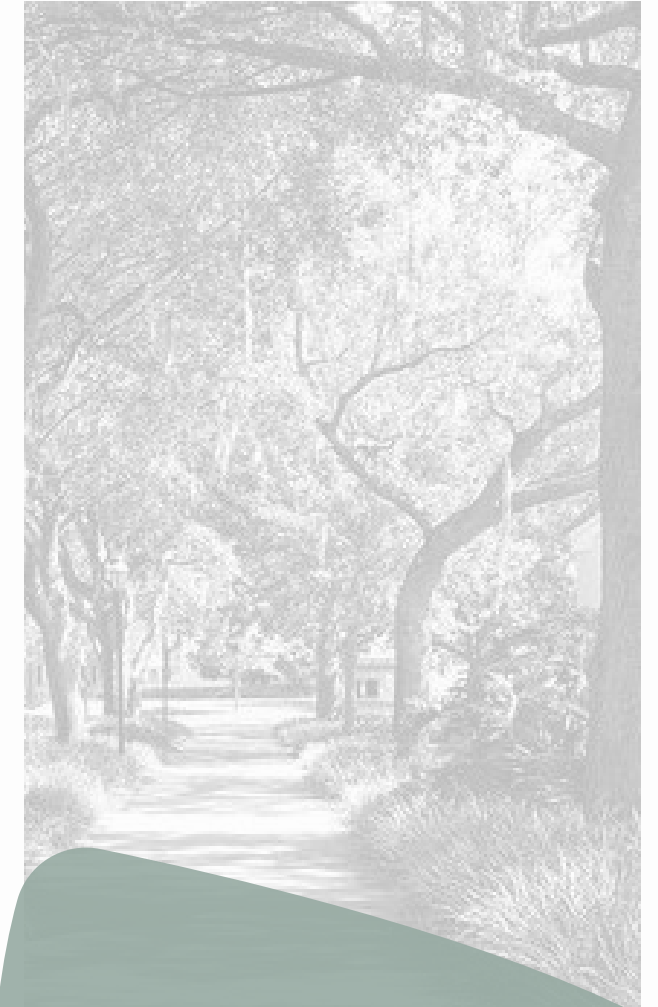
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USERS

Residents



Caregivers



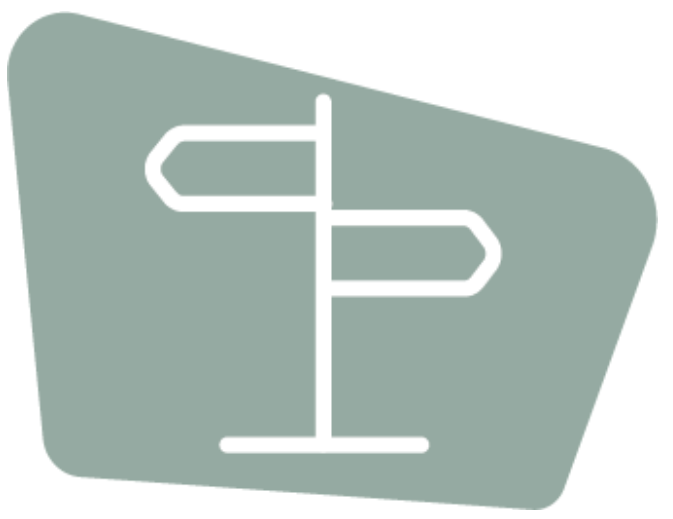
Support Staff



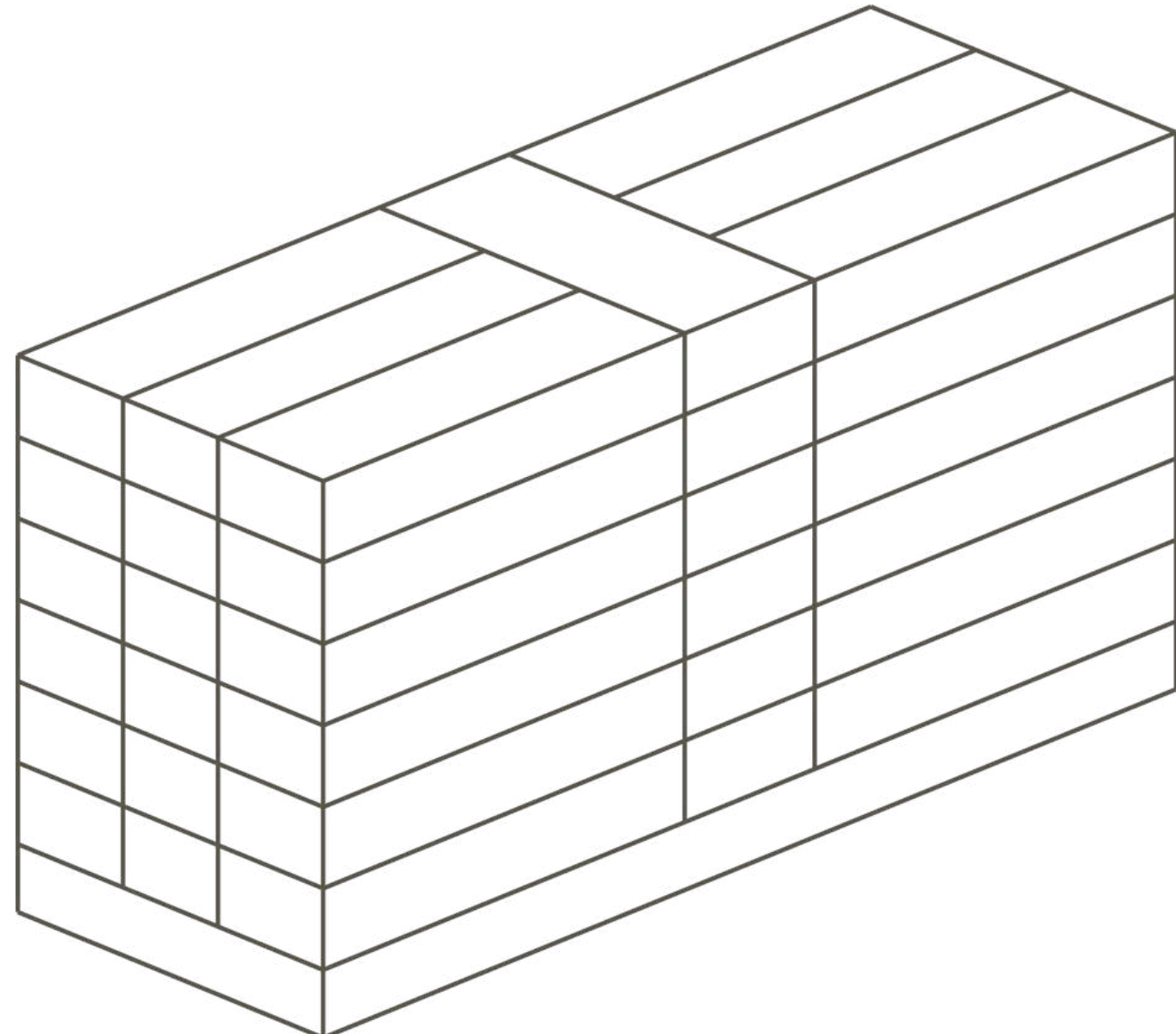
Visitors/Volunteers



PROGRAMMING

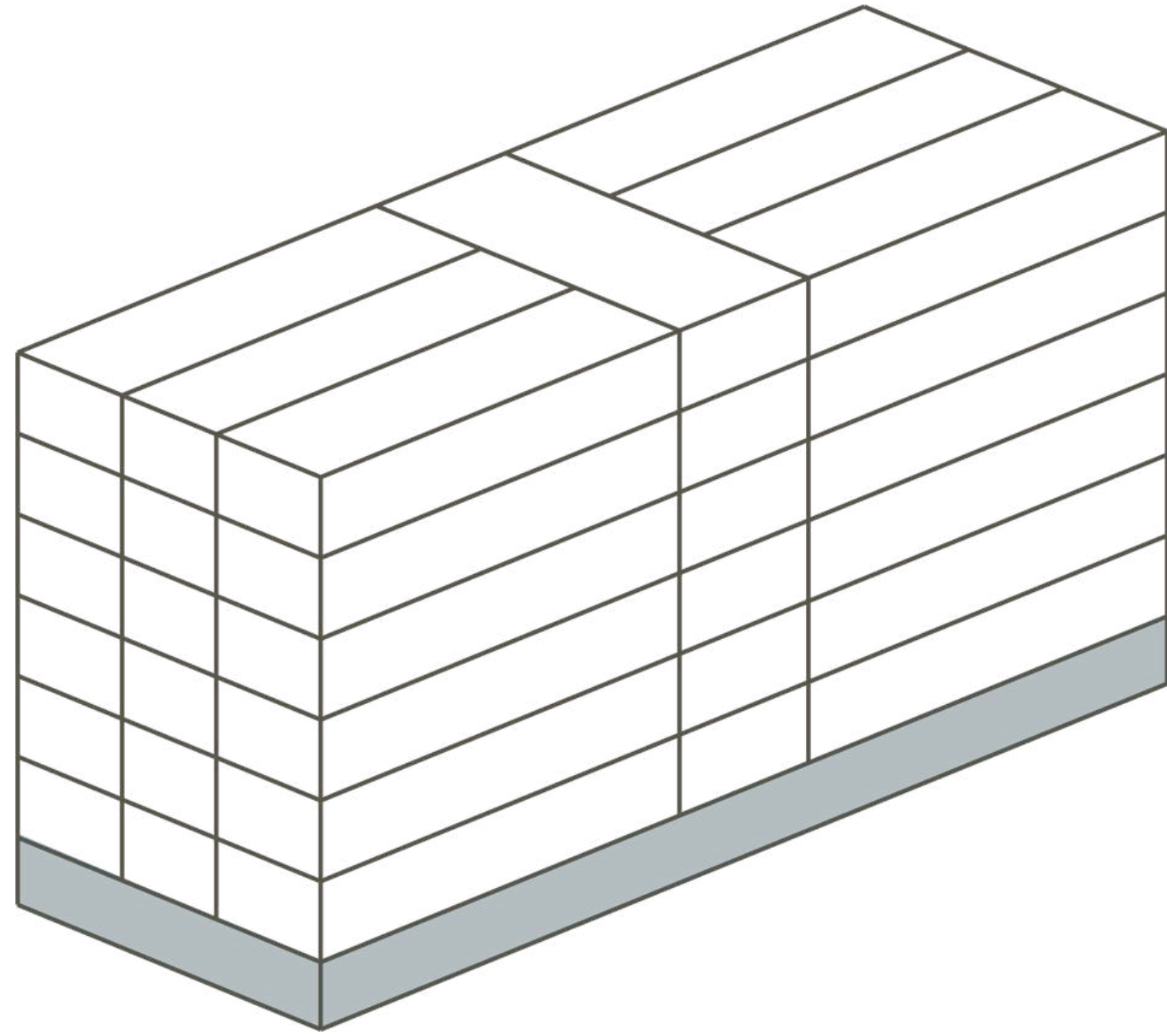


PROGRAMMING







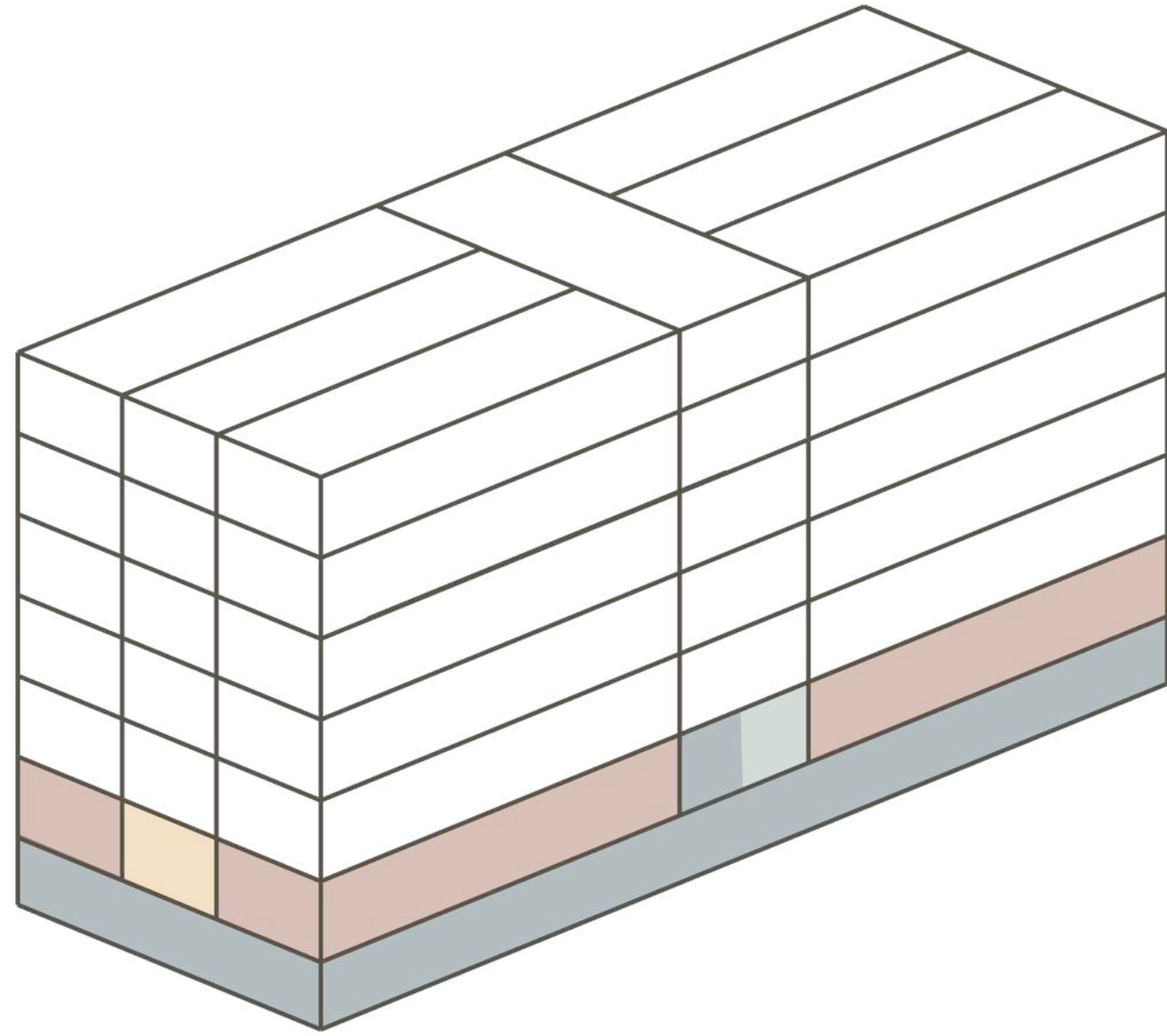
PROGRAMMING

 Admin/Nurse Stations







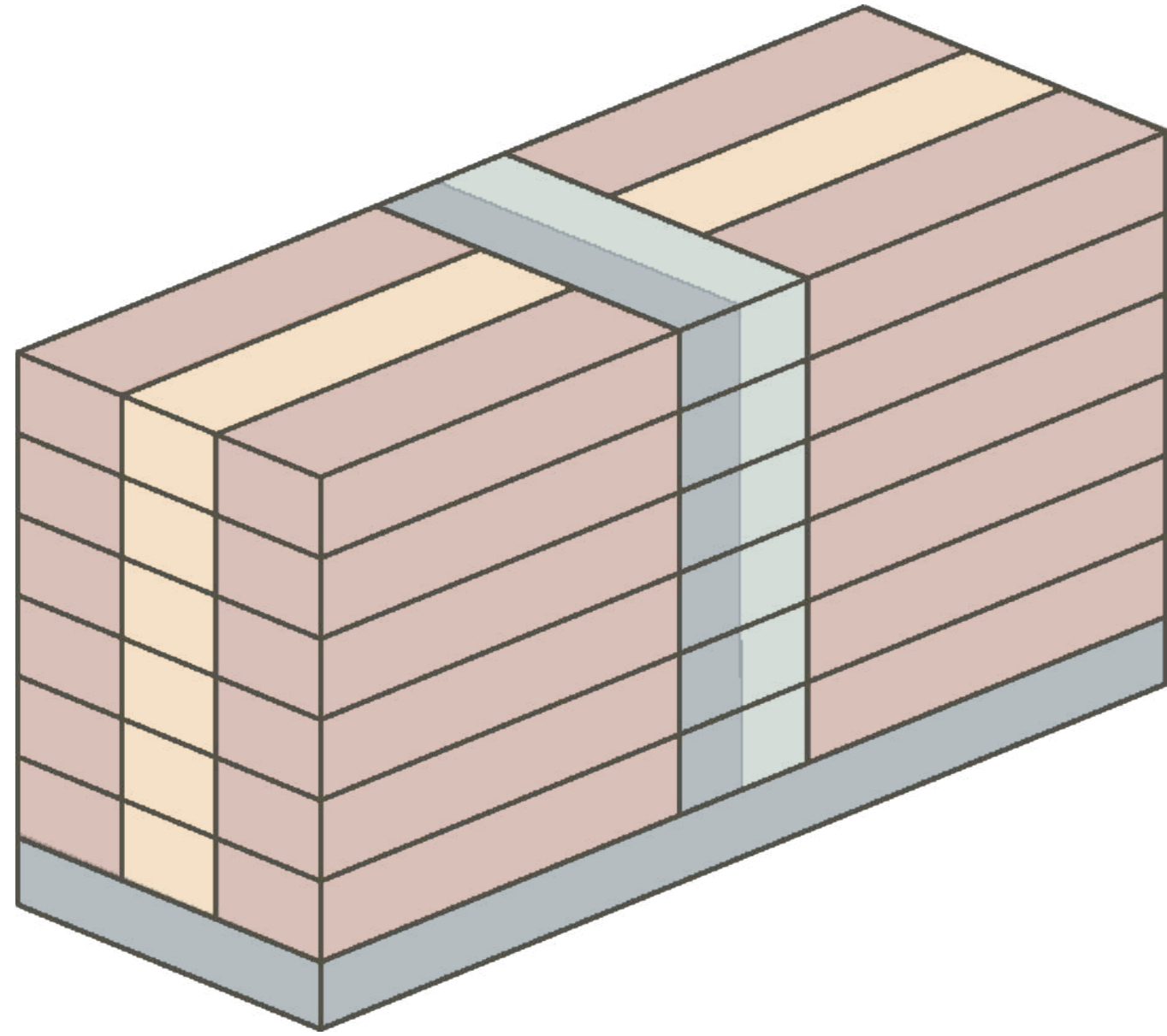
PROGRAMMING

-  Socialization Spaces
-  Admin/Nurse Stations
-  Circulation
-  Residents Rooms







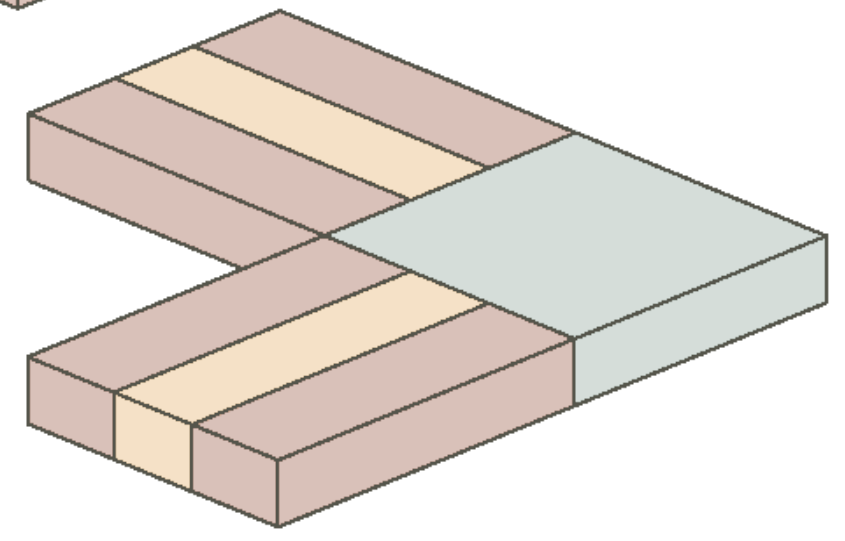
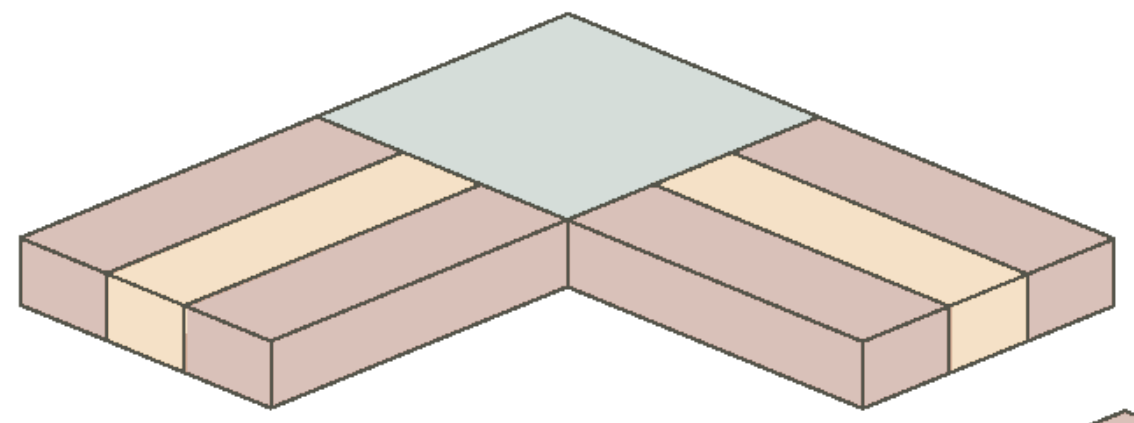
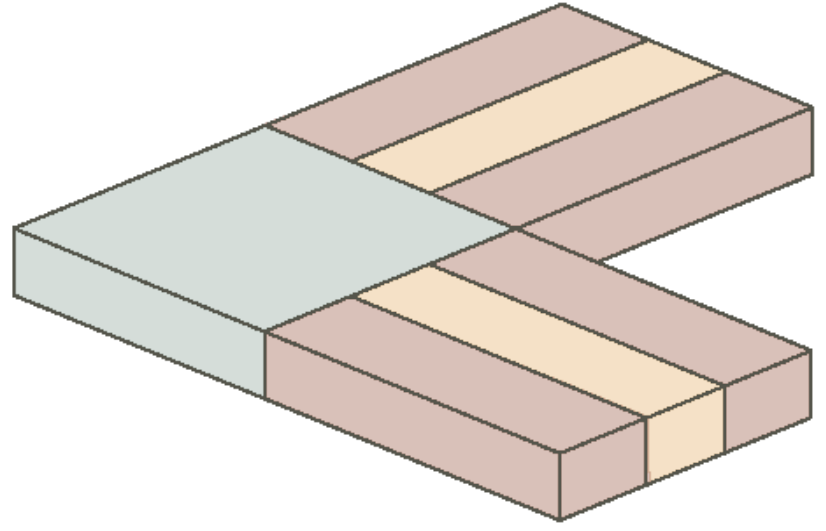
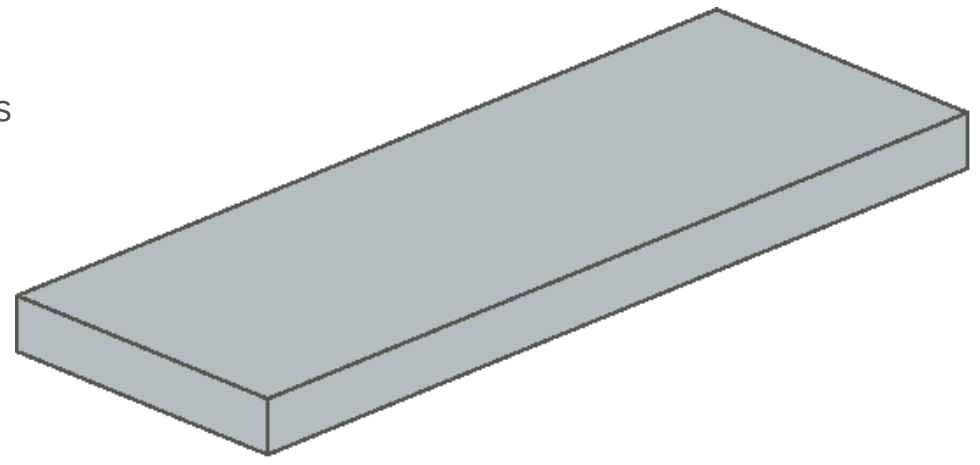
PROGRAMMING

-  Socialization Spaces
-  Admin/Nurse Stations
-  Circulation
-  Residents Rooms







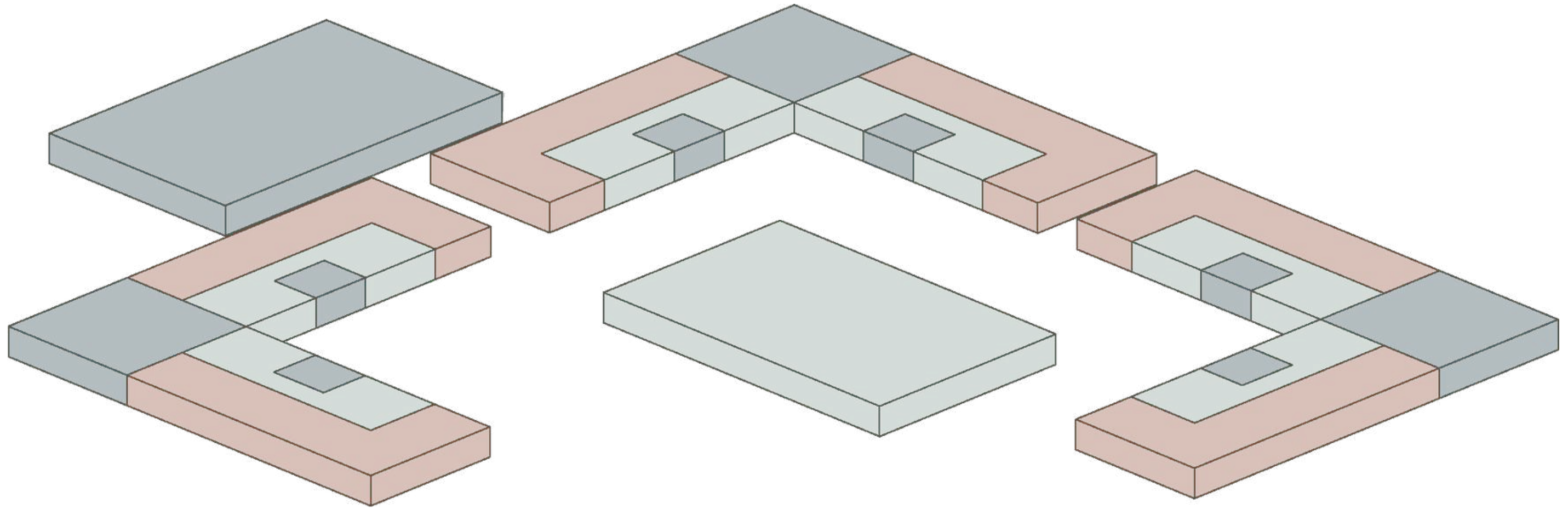
PROGRAMMING

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-  Admin/Nurse Stations
-  Circulation
-  Residents Rooms







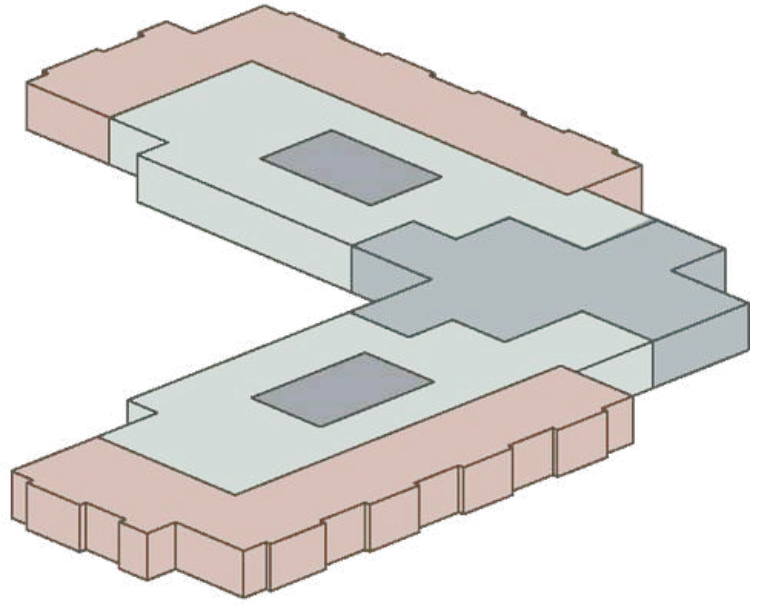
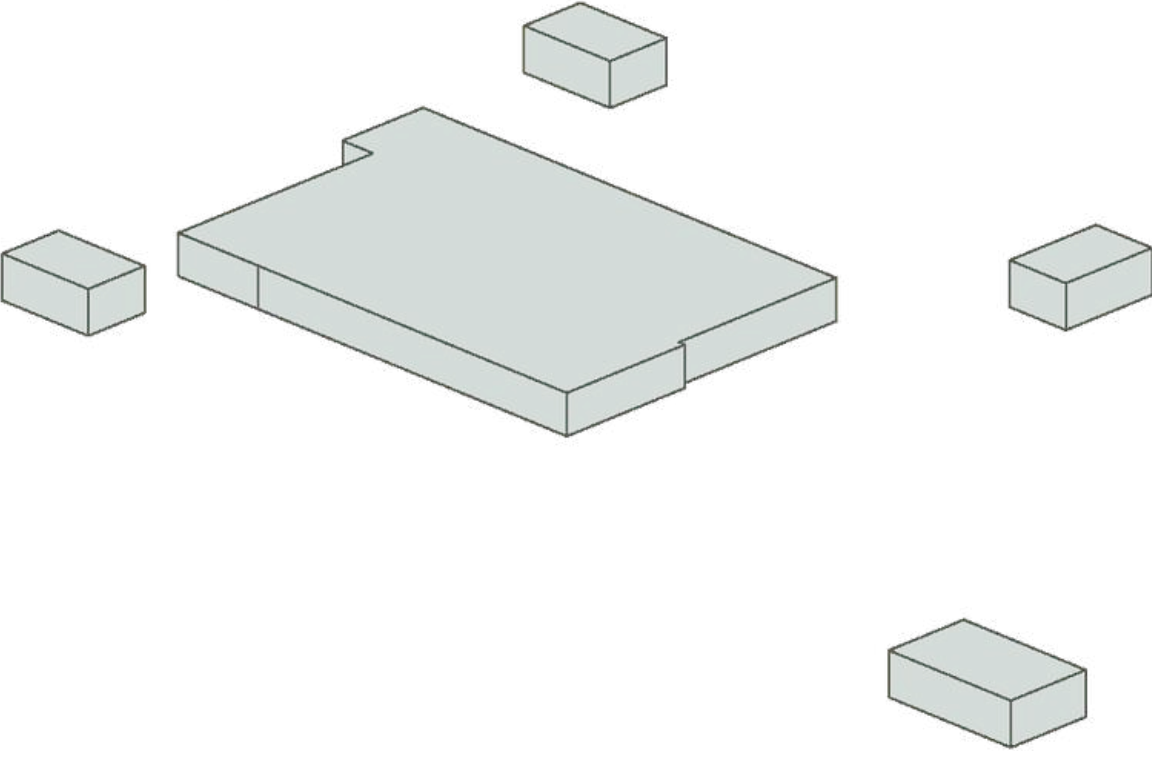
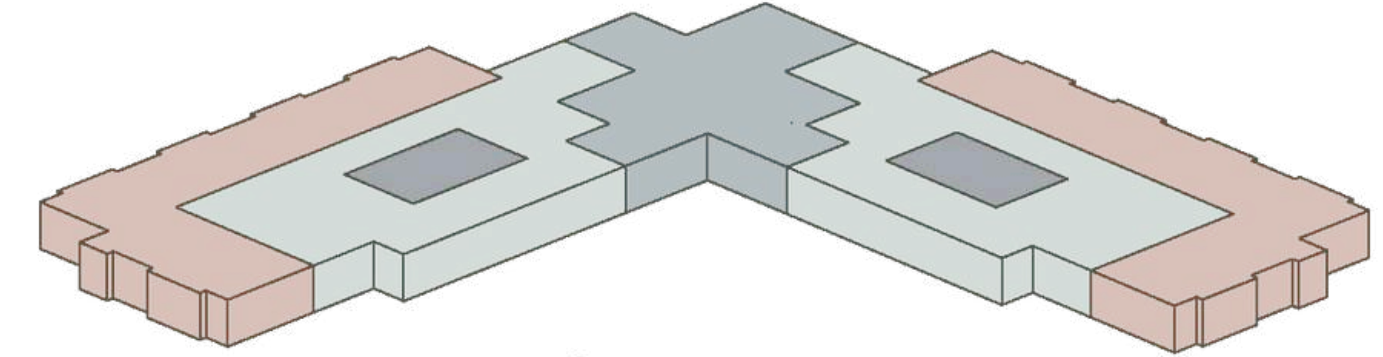
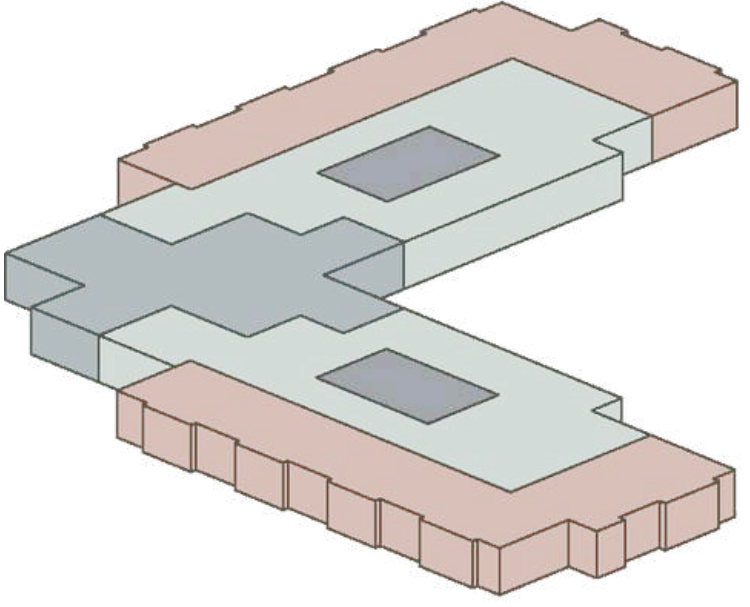
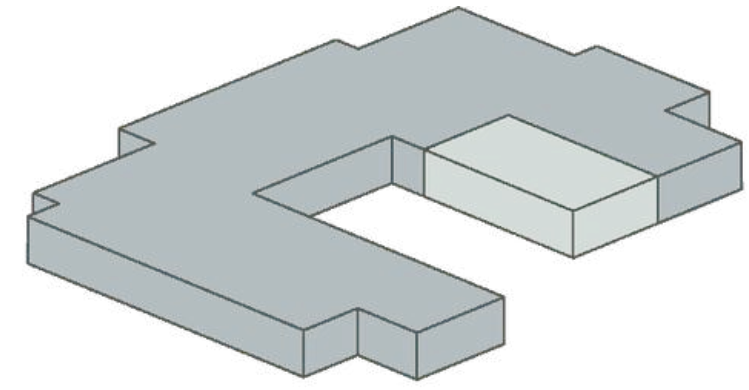
PROGRAMMING

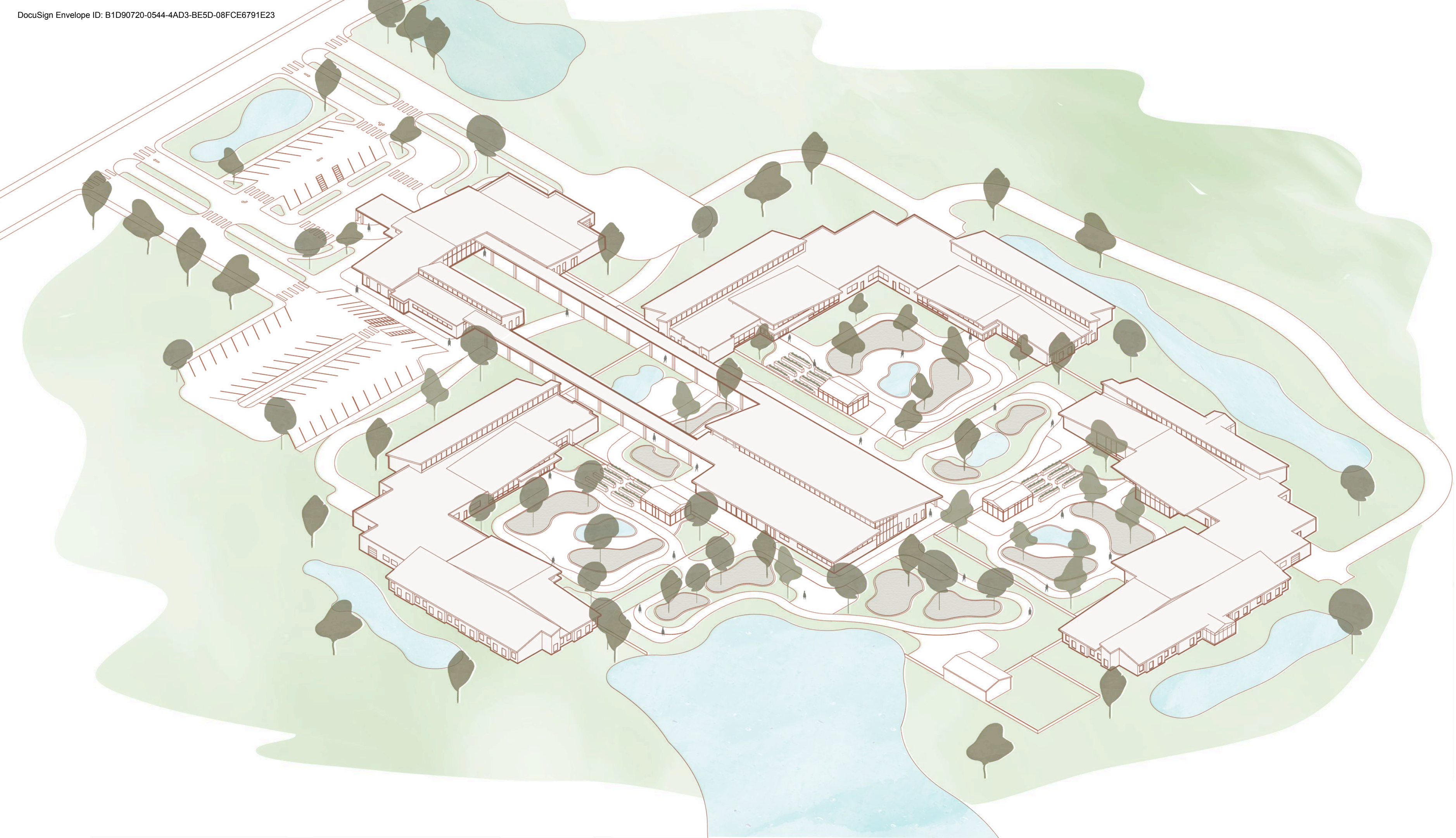
-  Socialization Spaces
-  Admin/Nurse Stations
-  Circulation
-  Residents Rooms



PROGRAMMING

-  Socialization Spaces
-  Admin/Nurse Stations
-  Circulation
-  Residents Rooms





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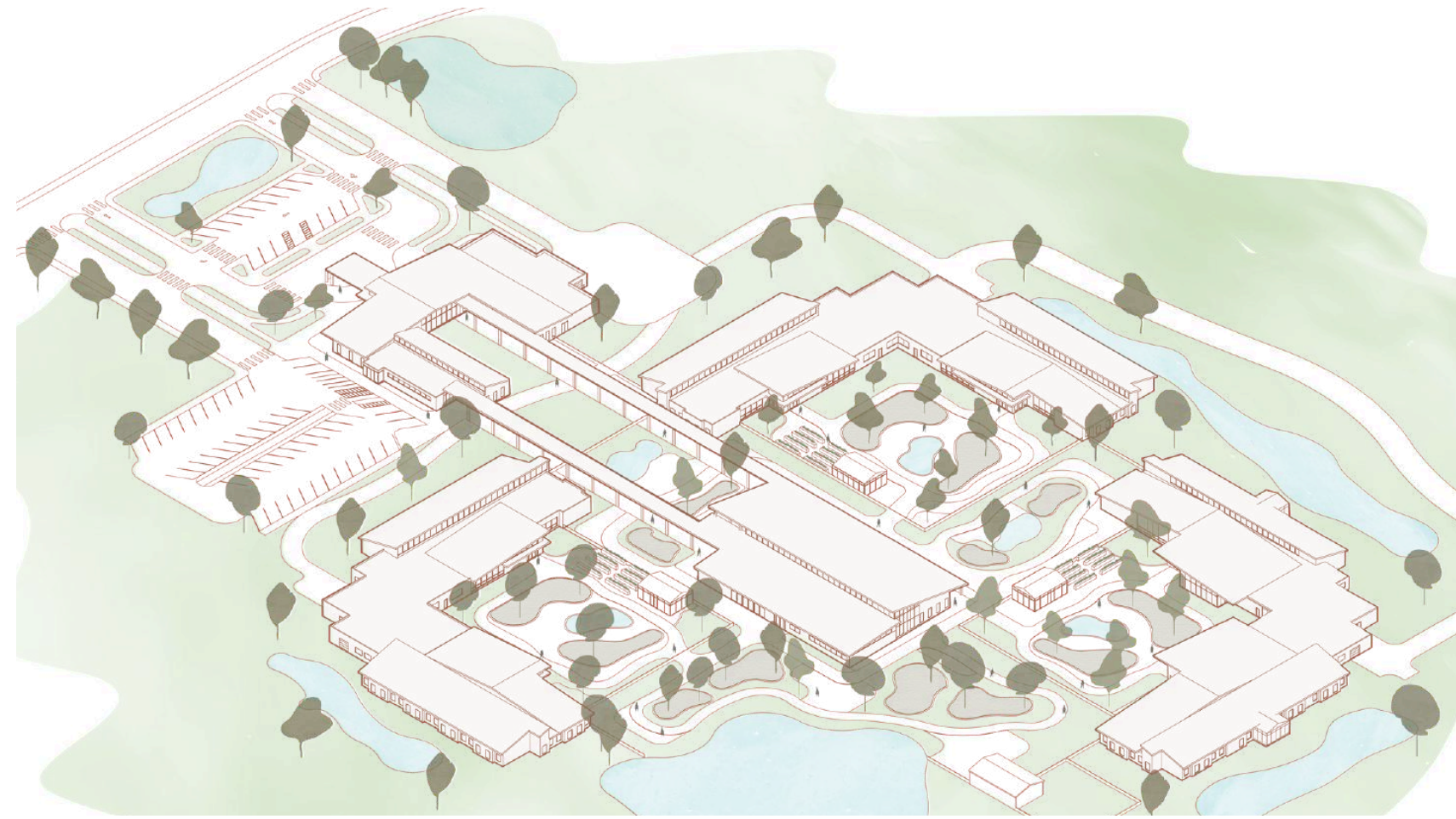
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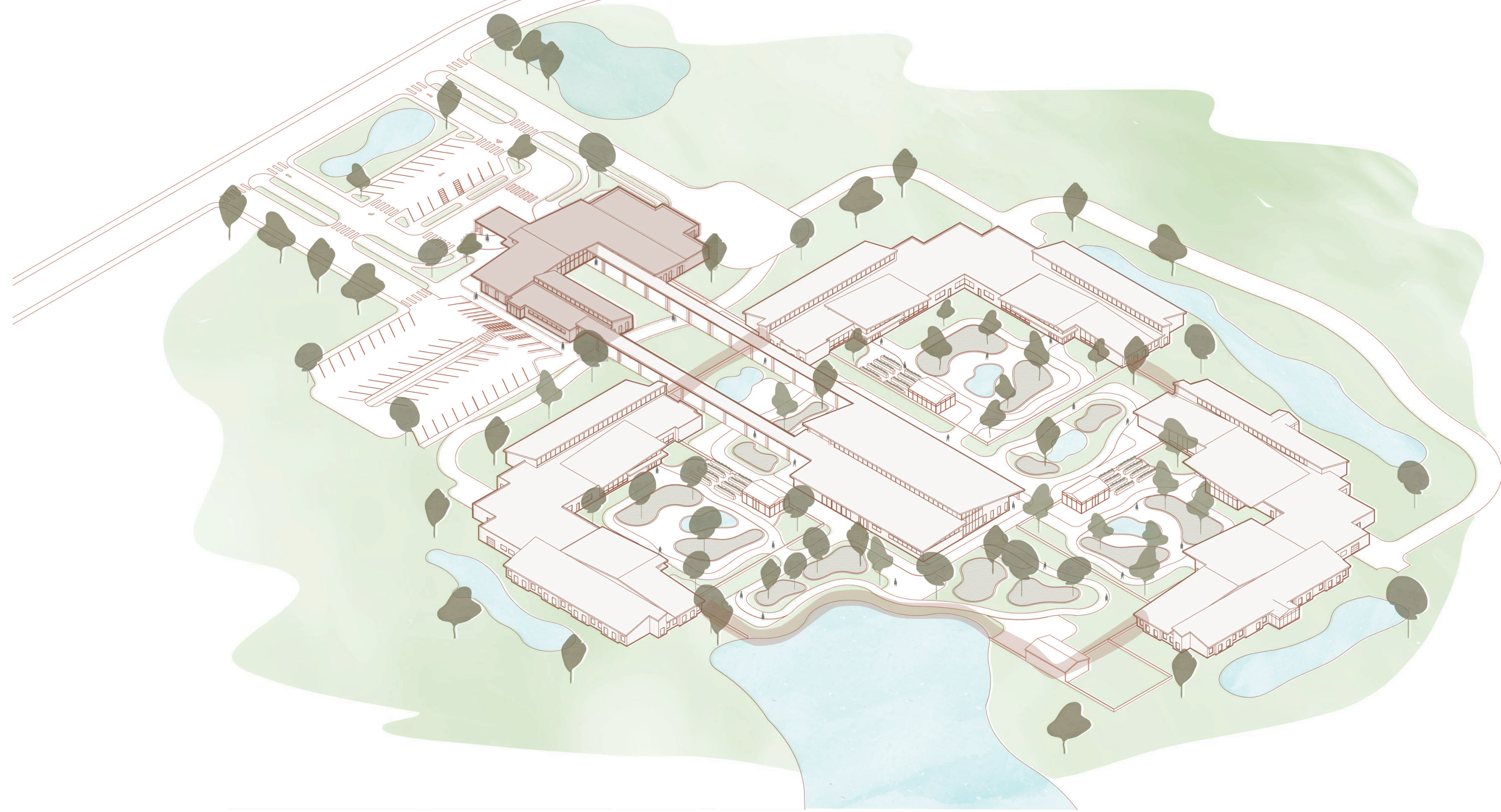
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STONEBROOK MEMORY CARE CENTER

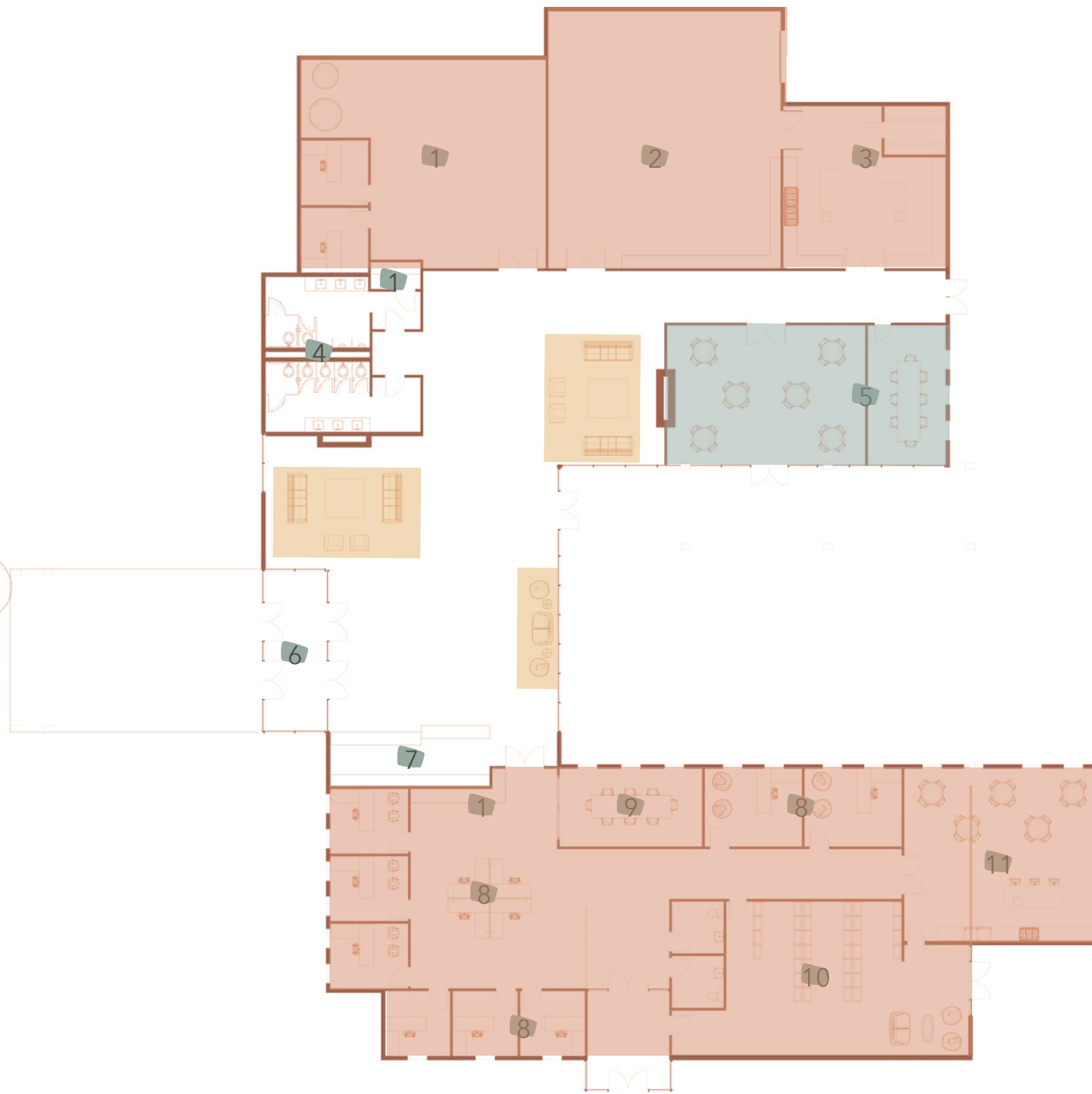
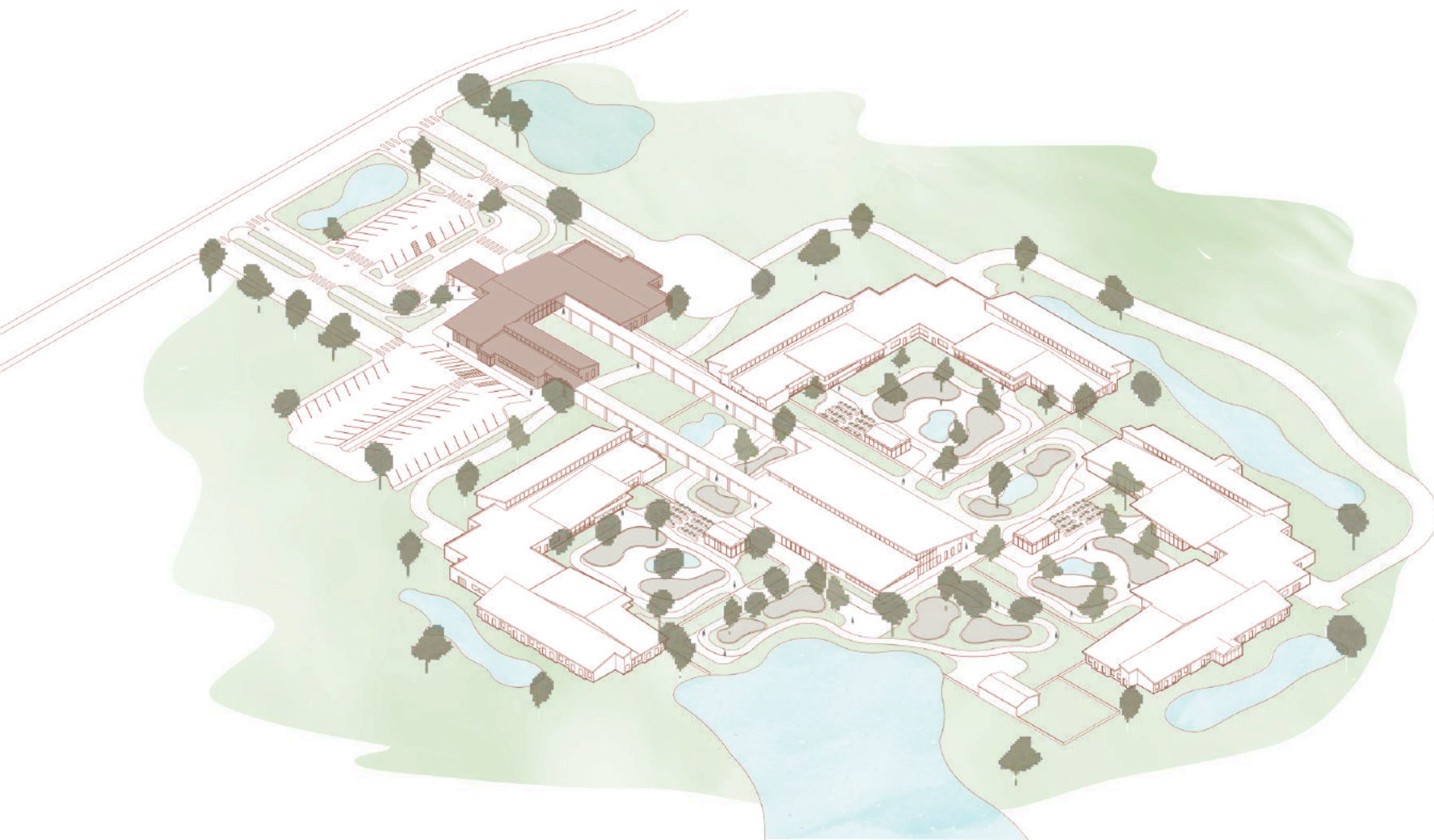


SAFETY AND SECURITY

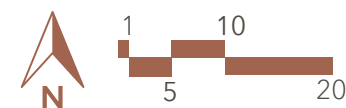


WELCOME CENTER

- Activity Areas
- Staff Spaces
- Socialization Spaces



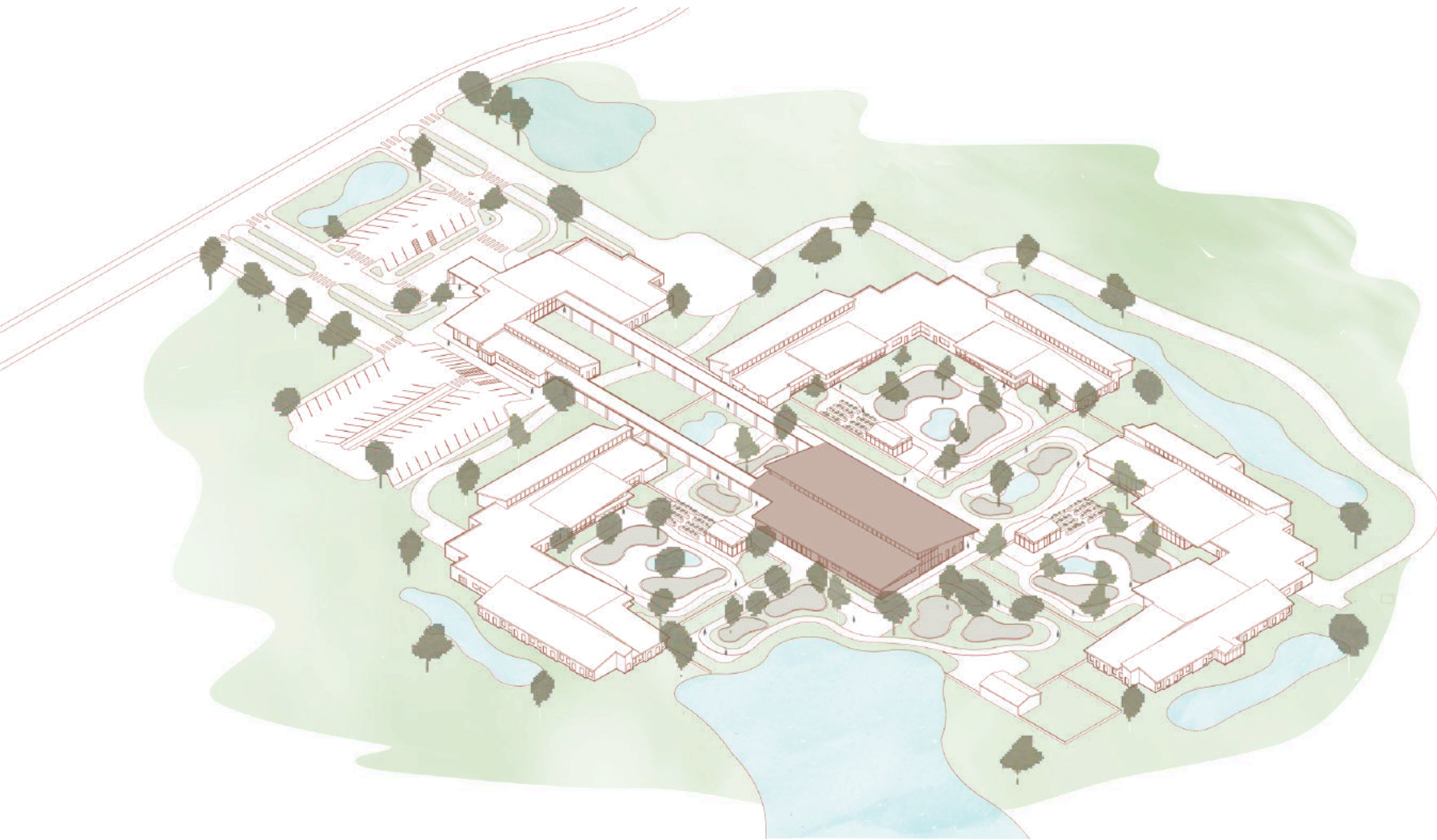
- 1 Mechanical/Storage
- 2 Shipping/Trash
- 3 Kitchen
- 4 Restrooms
- 5 Family Room
- 6 Entry
- 7 Check-in
- 8 Offices
- 9 Conference Room
- 10 Nurse Locker
- 11 Breakroom



CITY CENTER

- Activity Areas
- Staff Spaces
- Socialization Spaces

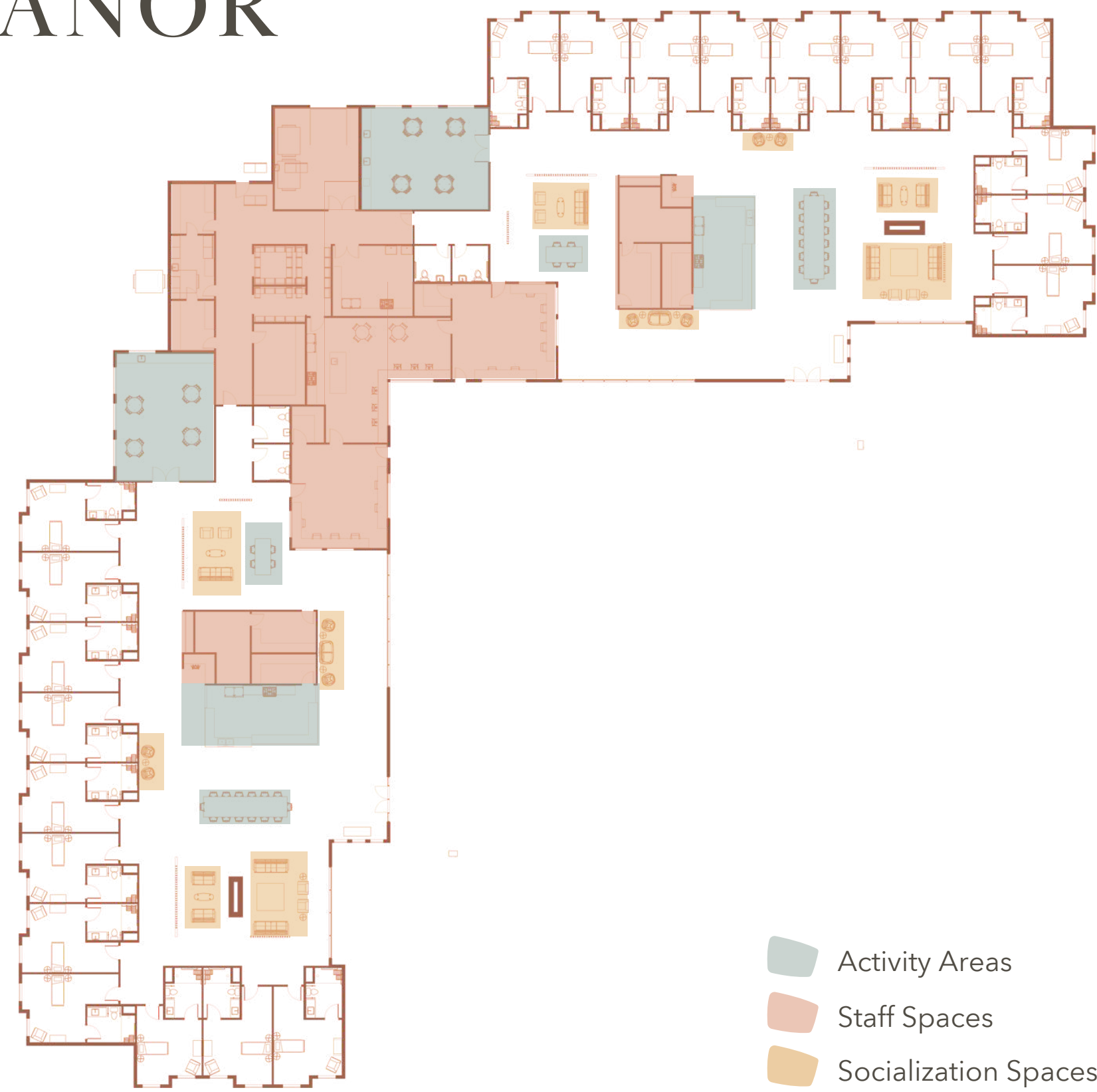
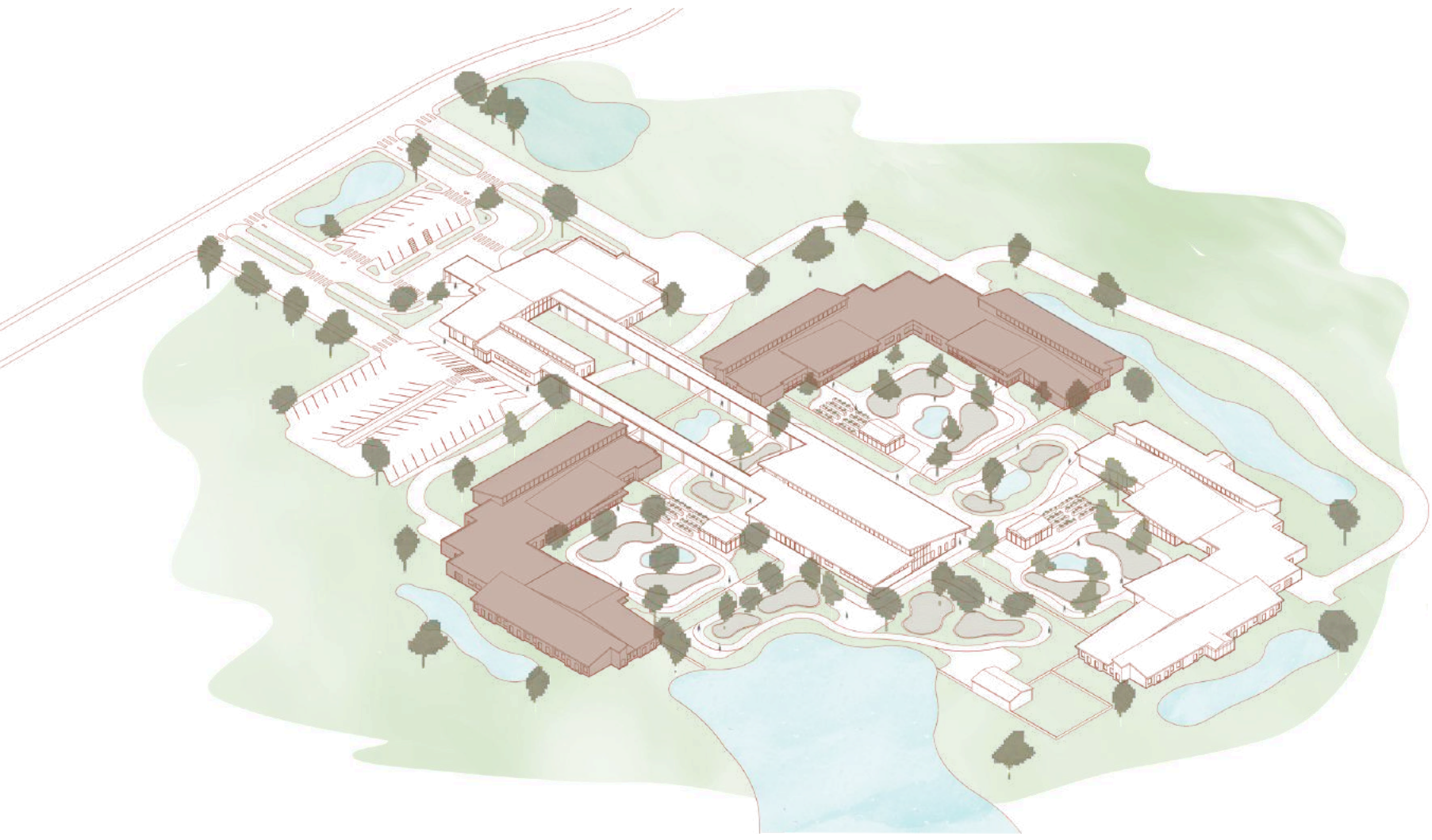
- 1 Bistro
- 2 Kitchen
- 3 Restrooms
- 4 Storage
- 5 Market
- 6 Salon
- 7 Office
- 8 Post Office
- 9 Fitness Center
- 10 Worship Space







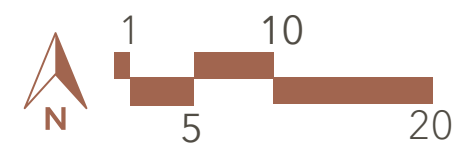
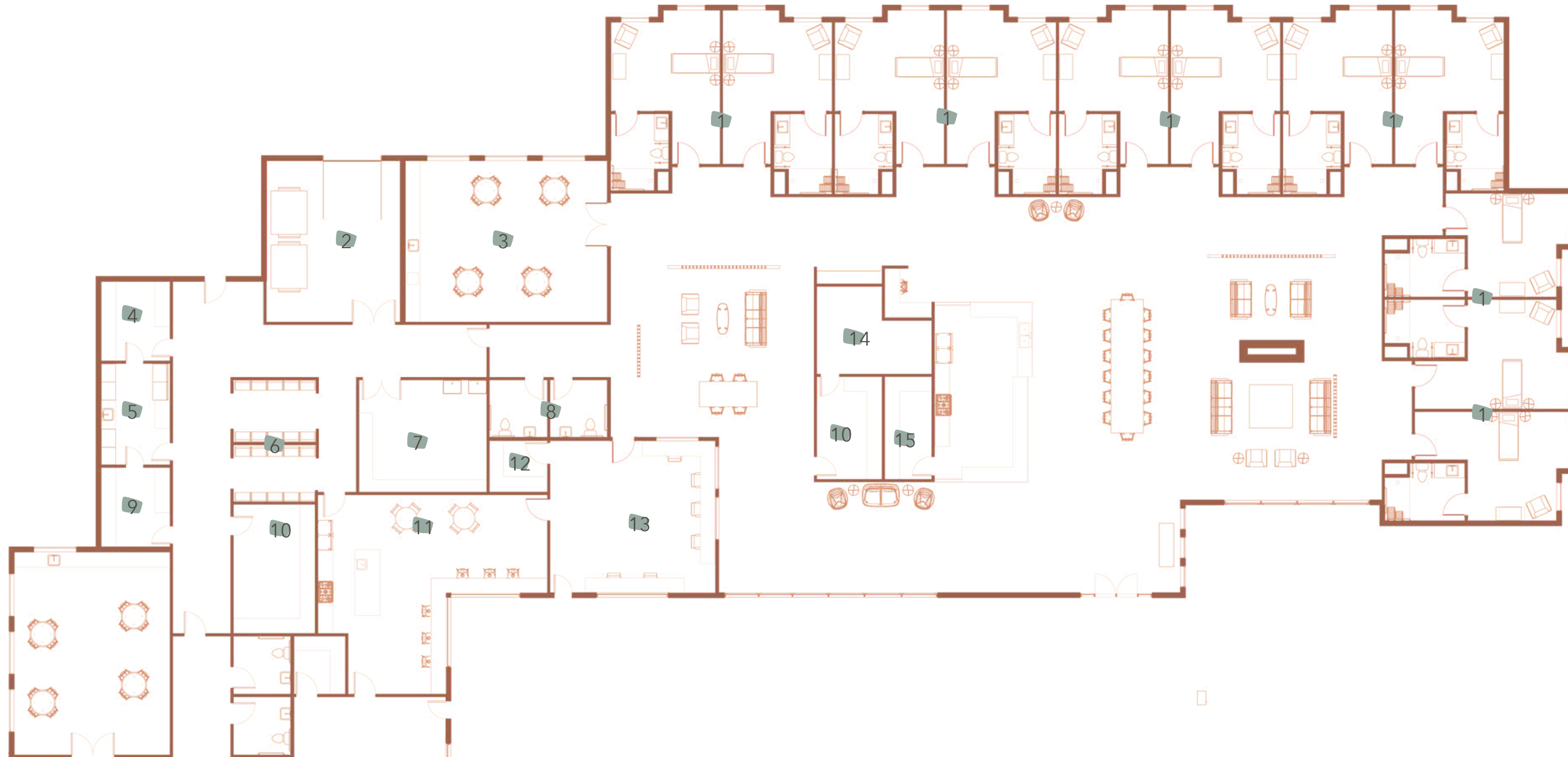
OAK ESTATES & ASH MANOR



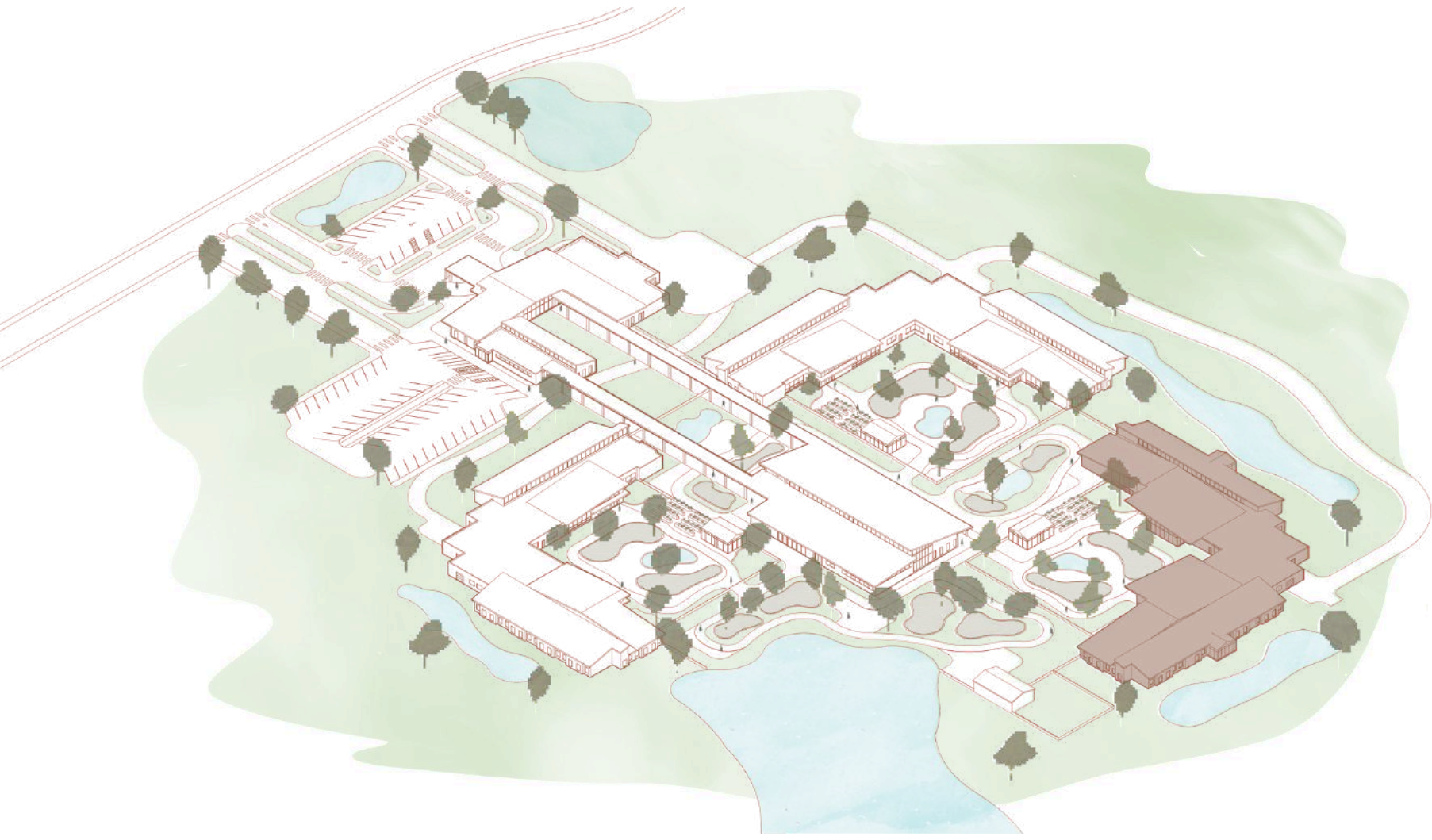
- Activity Areas
- Staff Spaces
- Socialization Spaces

OAK ESTATES & ASH MANOR

- 1 Bedroom with Bathroom
- 2 Trash
- 3 Hobby/Sensory Room
- 4 Clean Storage
- 5 Laundry
- 6 Nurse Lockers
- 7 Janitors
- 8 Restrooms
- 9 Dirty Storage
- 10 Storage
- 11 Nurse Breakroom
- 12 Medication Storage
- 13 Nurse Station
- 14 Mechanical
- 15 Pantry



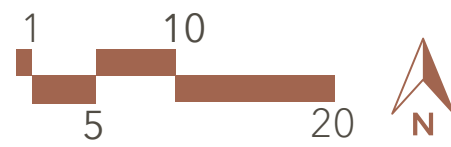
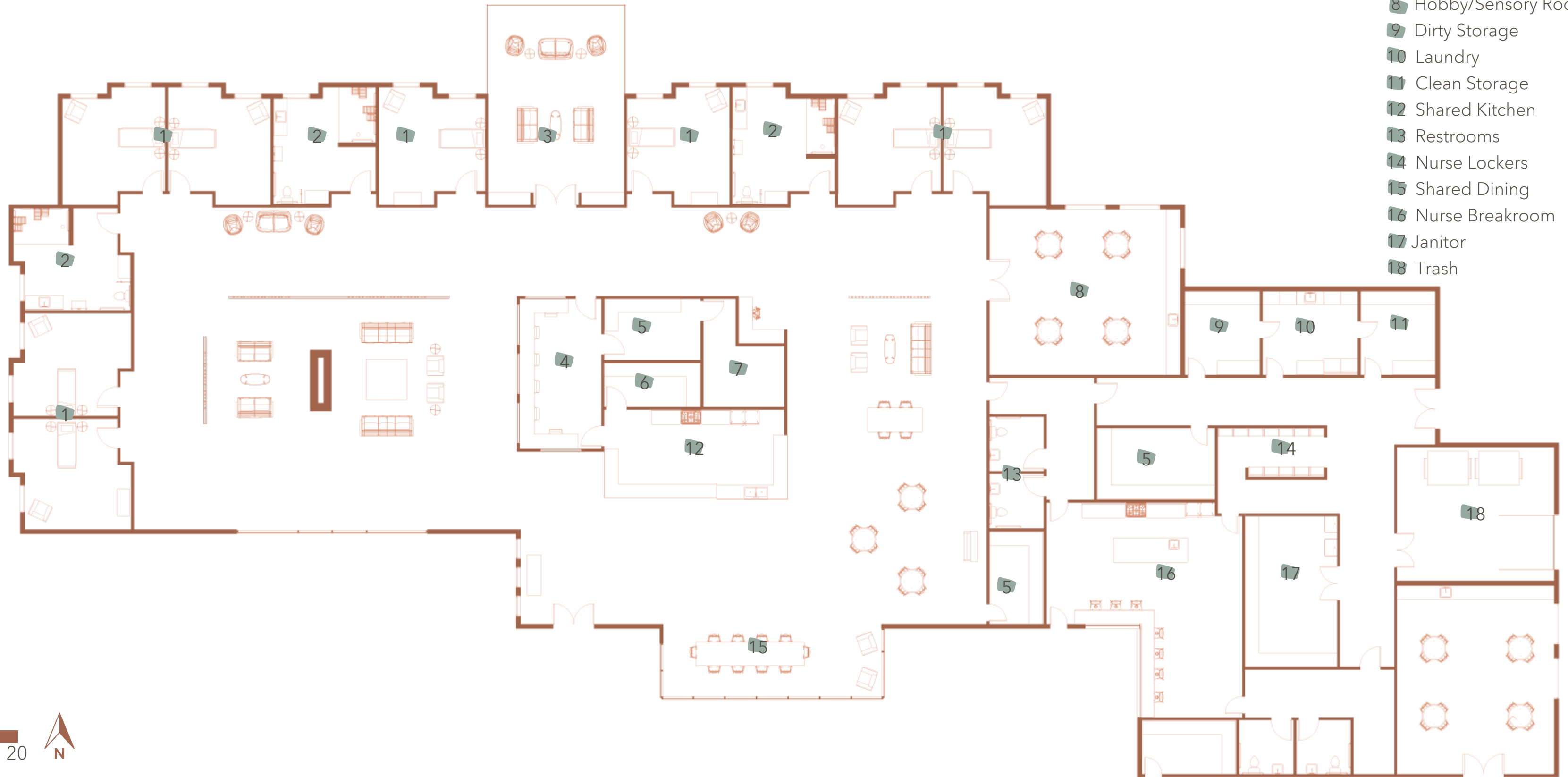
MAGNOLIA MEADOWS



- Activity Areas
- Staff Spaces
- Socialization Spaces

MAGNOLIA MEADOWS

- 1 Bedroom
- 2 Assisted Restroom
- 3 Sunroom
- 4 Nurse Station
- 5 Storage
- 6 Pantry
- 7 Mechanical
- 8 Hobby/Sensory Room
- 9 Dirty Storage
- 10 Laundry
- 11 Clean Storage
- 12 Shared Kitchen
- 13 Restrooms
- 14 Nurse Lockers
- 15 Shared Dining
- 16 Nurse Breakroom
- 17 Janitor
- 18 Trash









Oak Estates









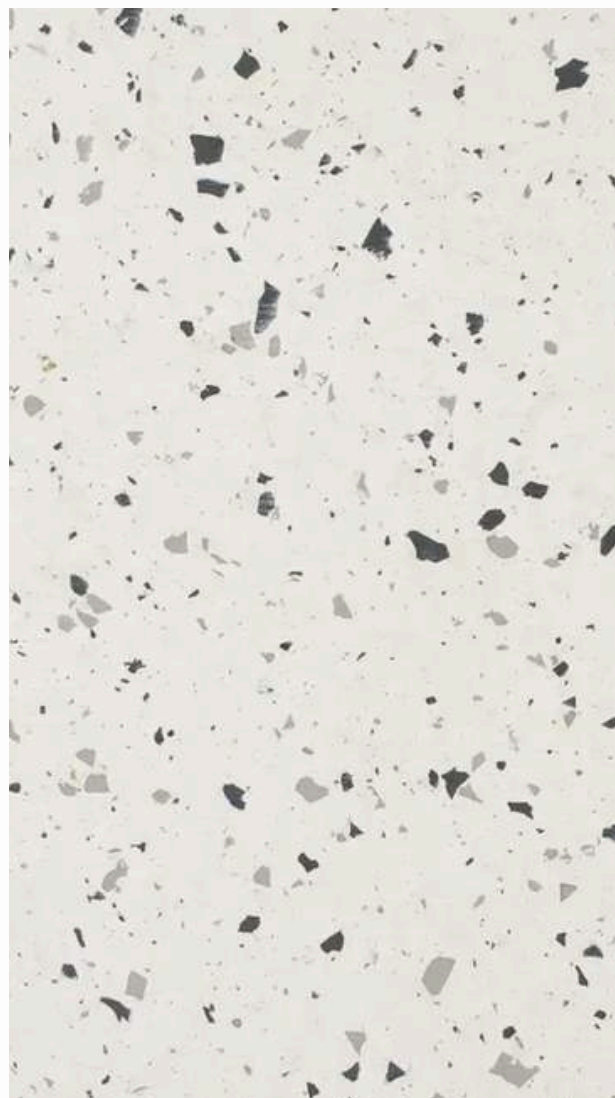




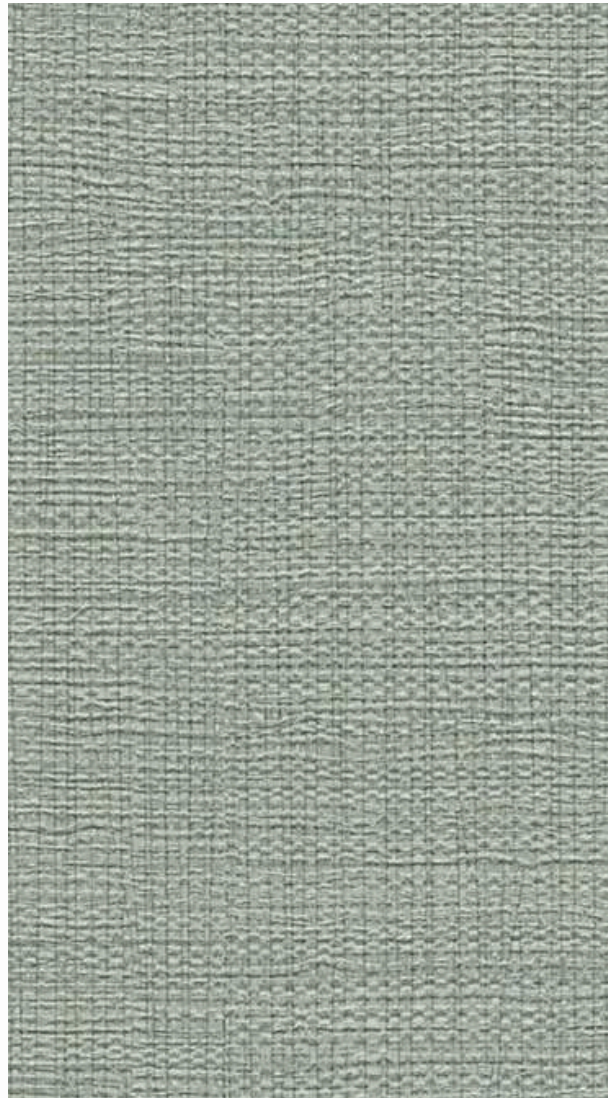
MATERIAL PALLETE



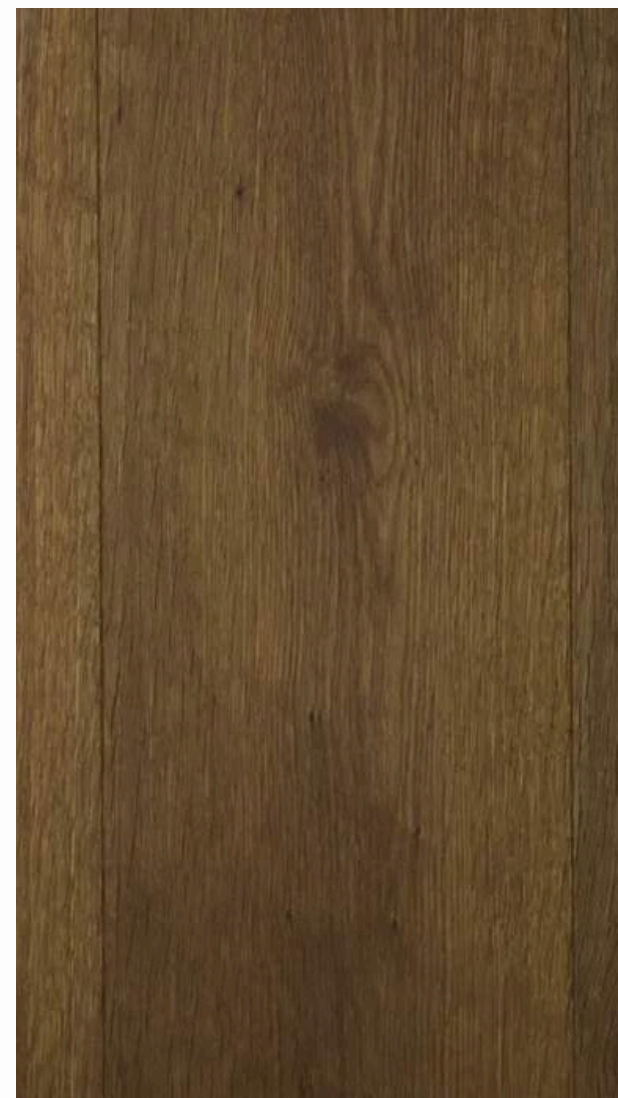
Texas Limestone



Flex solid rubber flooring



Vinyl Wallcovering



Flex solid rubber flooring



Wood Alta Acoustic Ceiling Panels

Newulmsiding. (2021, March 21). Best texas stone quarries for purchasing limestone cladding. New Ulm Siding Contractors. <https://www.newulm-tx.com/best-texas-stone-quarries-for-purchasing-limestone-cladding/>

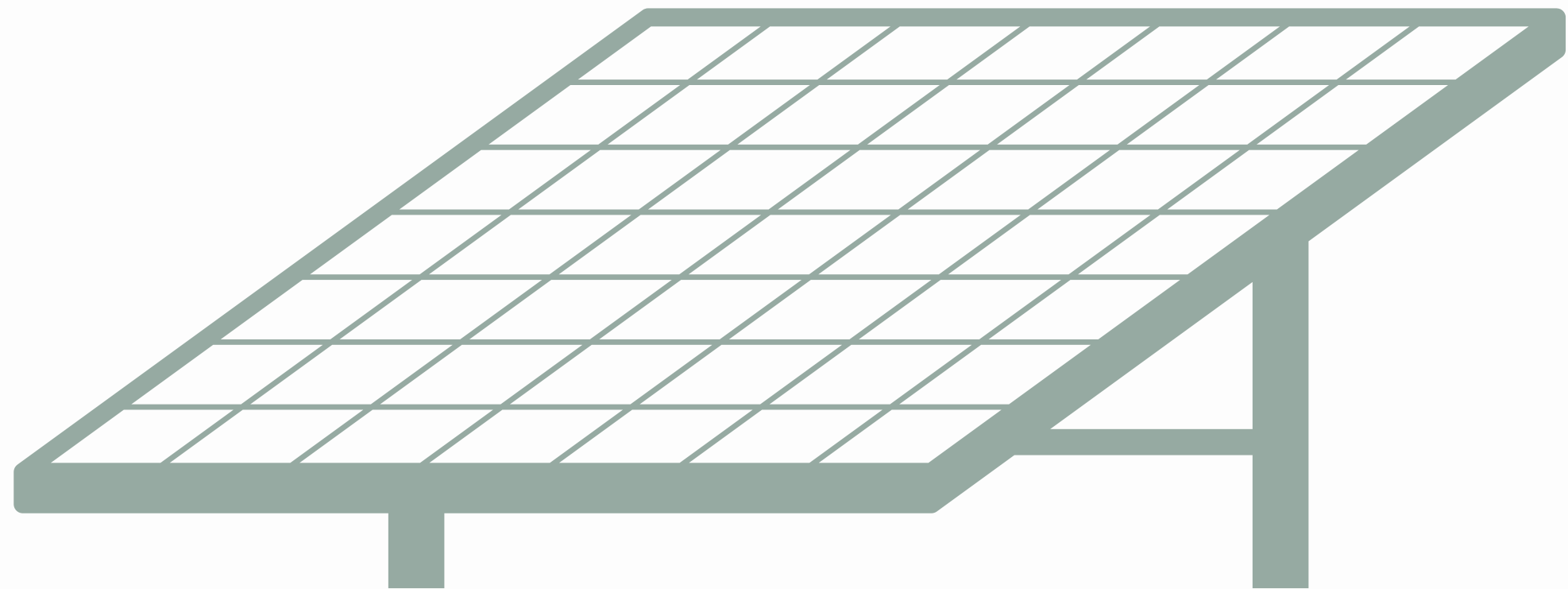
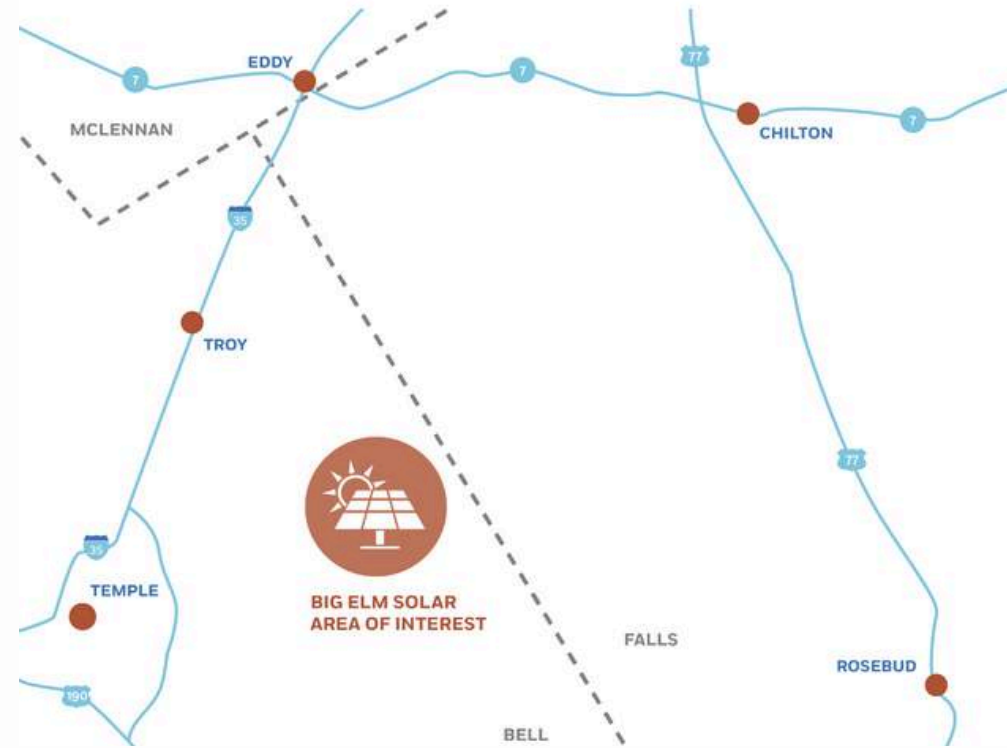
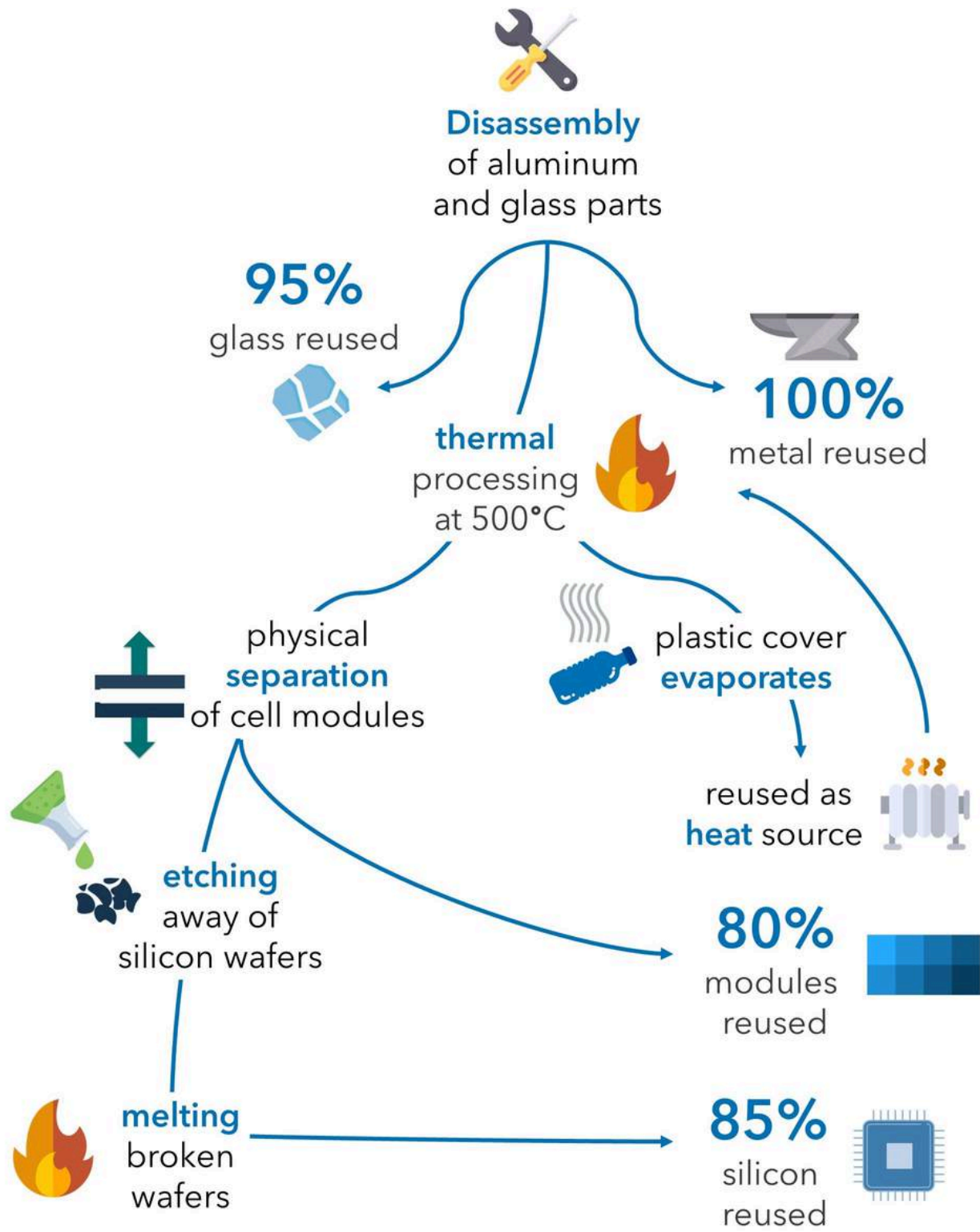
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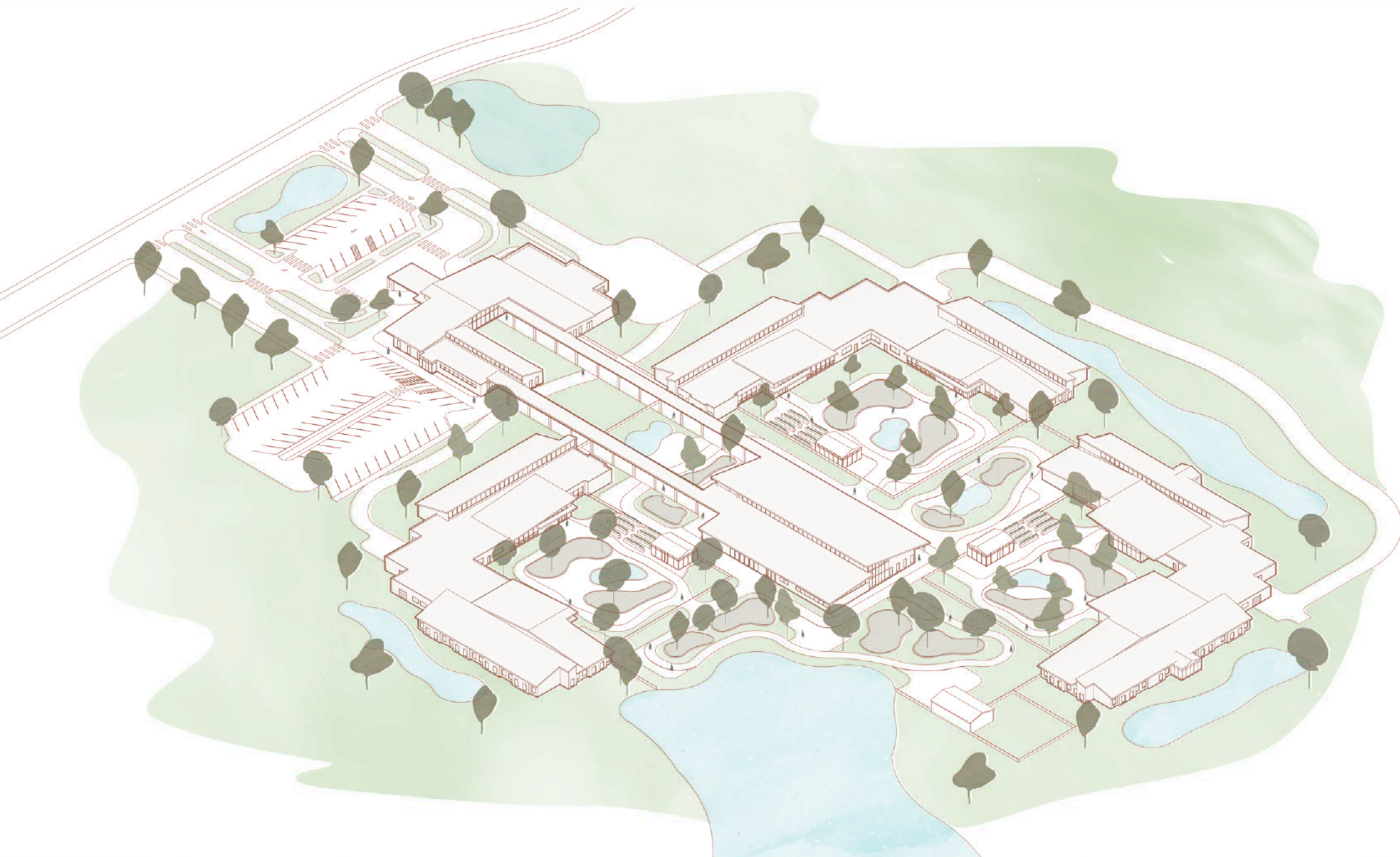
Soundply Alta acoustic ceiling panels on Material Bank. SoundPly: Alta Acoustic Ceiling Panels 834684 | Material Bank. (n.d.). https://www.materialbank.com/soundply-alta-acoustic-ceiling-panels-834684?itemListId=search_results_sampling&itemListName=Sampling+search+results&index=1

Zandur Flex Bianco on Material Bank. Zandur: Flex Bianco Bianco 926554 | Material Bank. (n.d.). <https://www.materialbank.com/zandur-flex-926554?activeChild=586103&ttps%3A%2F%2Fwww.materialbank.com%2Fzandur-flex-bianco-926263>

SUSTAINABLE STRATEGIES



SUSTAINABLE STRATEGIES



THANK YOU

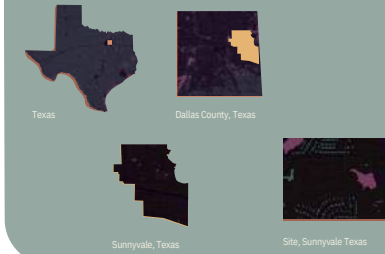
Questions and Comments



OVERVIEW

At some point in each of our lives, a loved one or even ourselves will end up in some assisted living facility. Today, there is a negative connotation behind senior living care facilities. The establishments these patients call home are far from what they should be. They are often crowded with individuals who are not physically fit but face mental challenges like dementia, which requires a different approach to care.

The architectural environments of today's memory care living centers do not promote socialization or push patients physically. Prioritizing person-centered design and increasing the opportunity for exercise and therapeutic design by allowing patients to explore, socialize, and engage in routine tasks they once performed in outside of the care facility before diagnosis thus promotes an active and healthy lifestyle that is both emotionally and physically stimulating. The overarching goal is to create a home for individuals with dementia that preserves their independence, provides equal opportunities and respects their dignity. The design behind creating these facilities has detrimental impacts on patients' health and well-being as well as family members. Hence, maximizing the built environment to promote confidence and self-fulfillment prevents both changed behavior and slows the overall mental decline of the disease.



BEYOND MEMORY

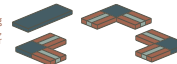
A Person-Centered Approach to Dementia Care Design

Programming

- Socialization Spaces
- Site Spaces
- Administration/nurse station/janitors
- Circulation
- Residents Room



Phase 1: Today's Standard
A single expensive multi-level building featuring elongated corridors, centralized nurse stations, and minimal provisions for social interaction or biophilic elements.



Phase 2: Divide the buildings into individual single-level wings, introduce secure courtyards, and relocate administration to the entrance of the new campus. Remove lengthy corridors and instead integrate diverse spaces for socialization and engagement outside of individual rooms.



Phase 3: Integrate centralized social hubs across the campus, define spaces, and more salutogenic opportunities throughout spaces between buildings. Relocate storage and cleaning facilities to connection points between wings to simplify janitorial tasks and reduce over-stimulation for residents.

CAMPUS PLAN

1 Welcome Center

Serves as the central hub for administration and is a convenient point of contact for visiting families and friends to check in.

2 Oak Estates

Units catering to individuals in the early to intermediate stages of the disease.

3 Ash Manor

Units catering to individuals in the early to intermediate stages of the disease.

4 City Center

Provision spaces for activities and socialization between patients, visitors and the community.

5 Magnolia Meadows

Units catering to individuals in the advanced stages of the disease.



PROJECT GOALS

Salutogenic Design

Providing environments that promote health and well-being rather than management of the disease and its symptoms. In the context of dementia care, it also means providing precise treatment plans for each patient and providing choices of daily activities to increase levels of self-control and confidence.

Small Scale Model

Designed by dementia design in place of one large building the spaces are divided among multiple buildings scattered across a lot, with activity and socialization areas woven between them. These smaller scale units accommodate 8-12 patients each and feature courtyard areas designed to resemble homelike settings for the residents.

Way-finding

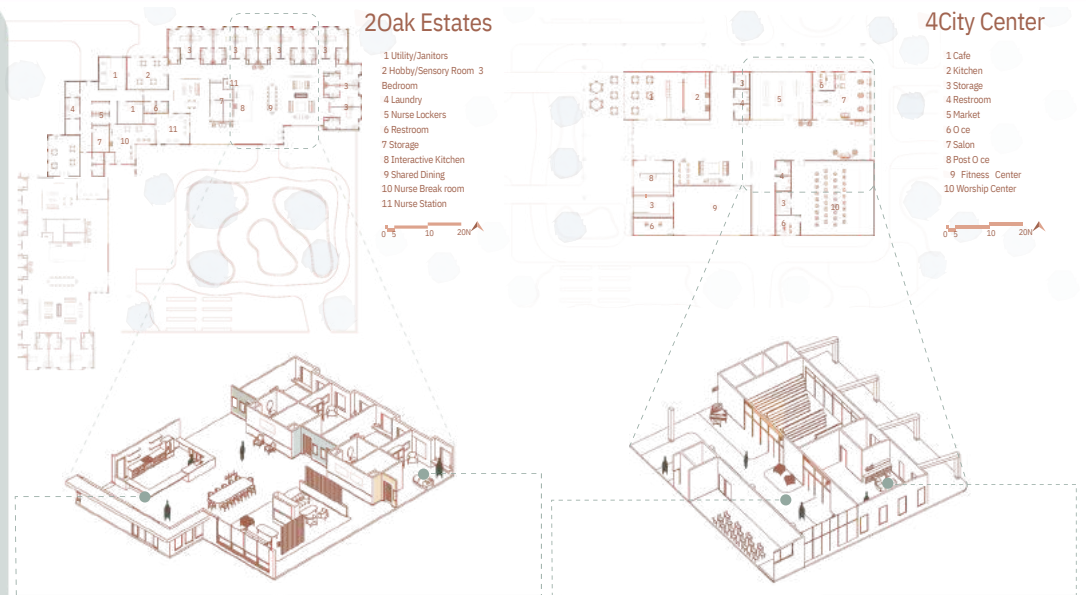
Clear signage, spatial landmarks, and intuitive layouts, guiding residents seamlessly through the environment to reduce confusion and promote independence.

Biophilic Design

Integrate natural elements such as sunlight, plants, outdoor spaces, and sky views and views of nature to enhance well-being, reduce stress and foster connections with nature for residents.

Community Connection

Fosters social engagement and support through shared spaces, activities, and interactions, promoting a sense of belonging and enhancing residents' quality of life.



- Materials and layout reminiscent of mid-century modern homes that residents grew up in, providing a homelike soothing ambience.
- A spacious shared kitchen and dining area offer residents the chance to participate in meal preparation. Opportunities for community members to assist in cooking activities or with crafts in the hobby room.
- Utilize home-like finishes and provide residents with opportunities to integrate furniture and decor from their own homes.
- Views of nature to reduce stress and regulate the body's circadian rhythms.
- Memory boxes outside of each room that contain items with a personal significance to the individual.
- Offer opportunities for socialization and engaging activities to maintain residents' physical activity levels.
- Implement flooring transitions to guide residents along designated paths, accommodated by colorful signage and icons indicating room functions.
- Encourage community involvement by providing opportunities for interaction with residents and education about the diseases residents face.
- Offer options for residents to engage in activities they enjoyed prior to their diagnosis, such as receiving salon services.
- Views of nature to reduce stress and regulate the body's circadian rhythms.

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