

Ryerson University

School of Interior Design

January 27th, 2020

brainXchange Webinar

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Selin Yasar, 4th Year Student



Ryerson University

Experiential Learning and Community Partnerships

Located in downtown
Toronto, Canada

Preparing Ryerson students
to be:

- Career ready
- Community ready
- Citizen ready

Introduction

Interior Design Pedagogy & Dementia

Introduction

- Learning objectives
- Experiential learning
- Analyses & Research
- Design Synthesis
- Engagement

Project Client Groups in Toronto:

- brainXchange
- Finding Your Way Initiative
- Alzheimer Society of Ontario
- Alzheimer Society of Toronto

Community of Practice

Interdisciplinary and Interprofessional

The university community has resources to link theory to practice. People with lived experience, policy knowledge and front-line experience were advisors:

- **Devin Glowinski**, Lecturer, Faculty of Community Services, Ryerson
- **Felicia White**, Alzheimer Society of Ontario (ASO)
- **Tina Krliu**, ASO
- **Kari Quinn-Humphrey**, ASO



Project Importance

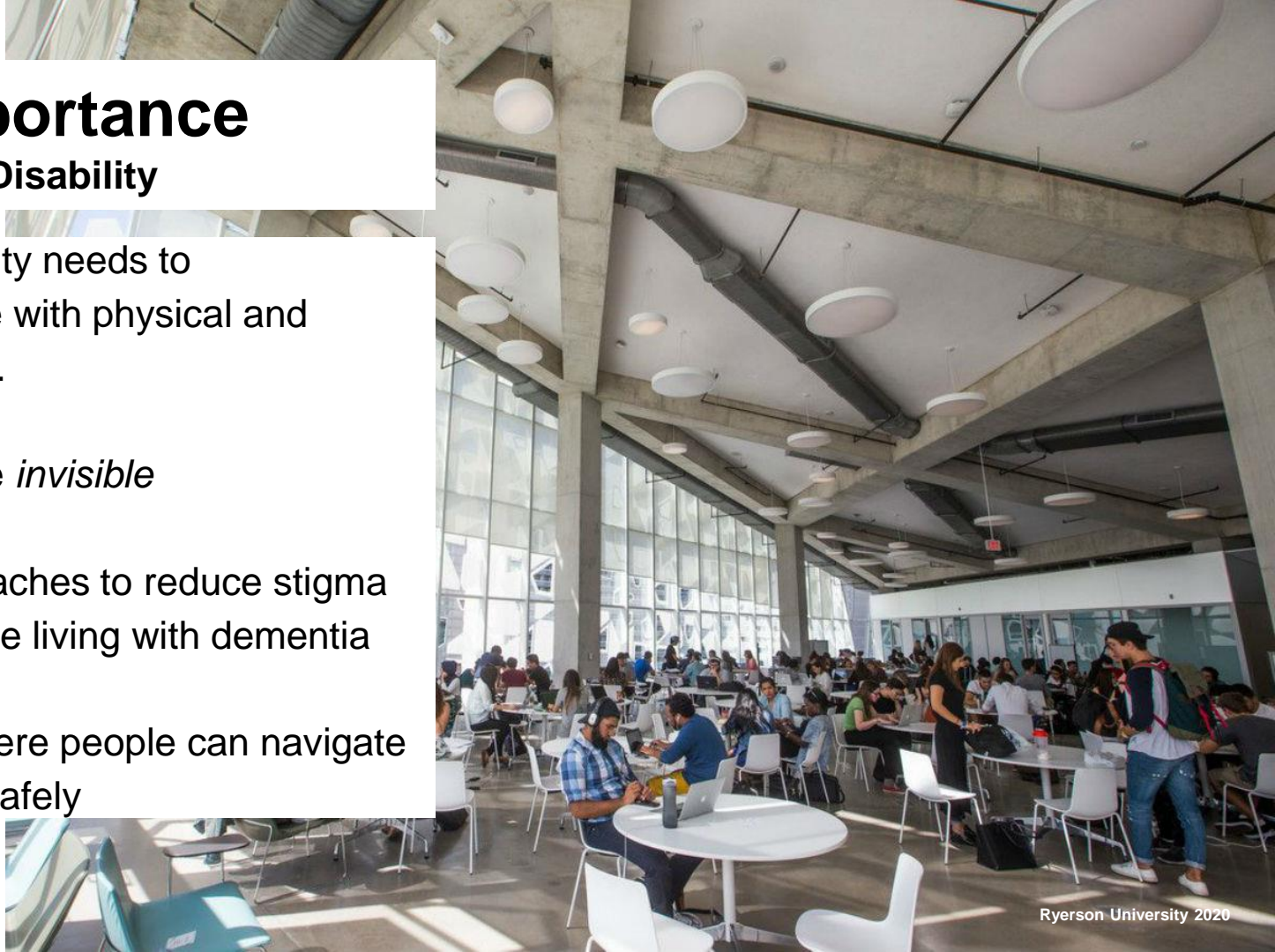
Understanding of Disability

Universal accessibility needs to accommodate those with physical and cognitive disabilities.

Many disabilities are *invisible*

Using design approaches to reduce stigma and barriers for those living with dementia

Creating spaces where people can navigate independently and safely



Design Guidelines

Understanding of Client Needs

Being an interior designer or architect is seen as a technical profession

This project enforces the importance of empathy and understanding the needs of clients and people with lived experience

Reviewing the safest materials and colour palettes to use for interiors



Outcomes and Goals

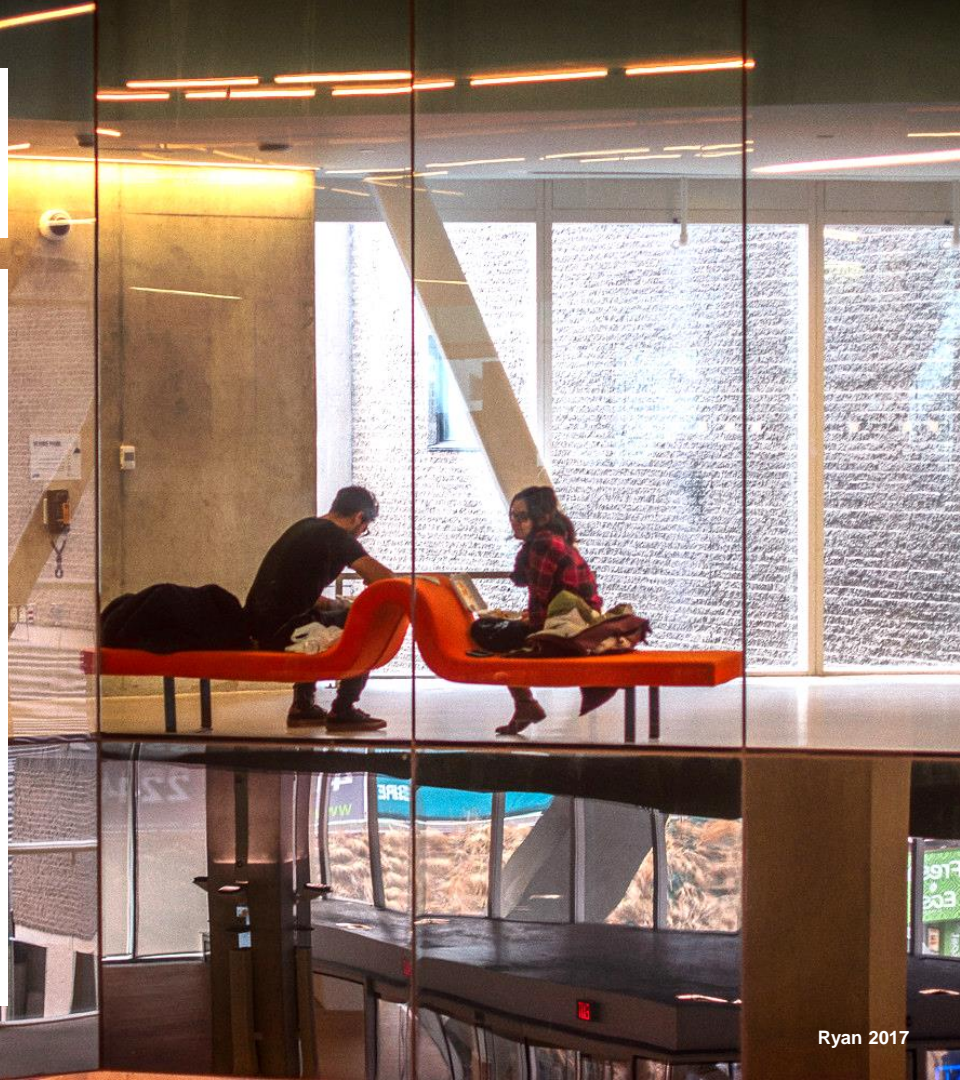
Reducing Stigma

Creating spaces where staff and counselling services are blended.

Clients coming into these offices for programs have shared spaces with clear definition:

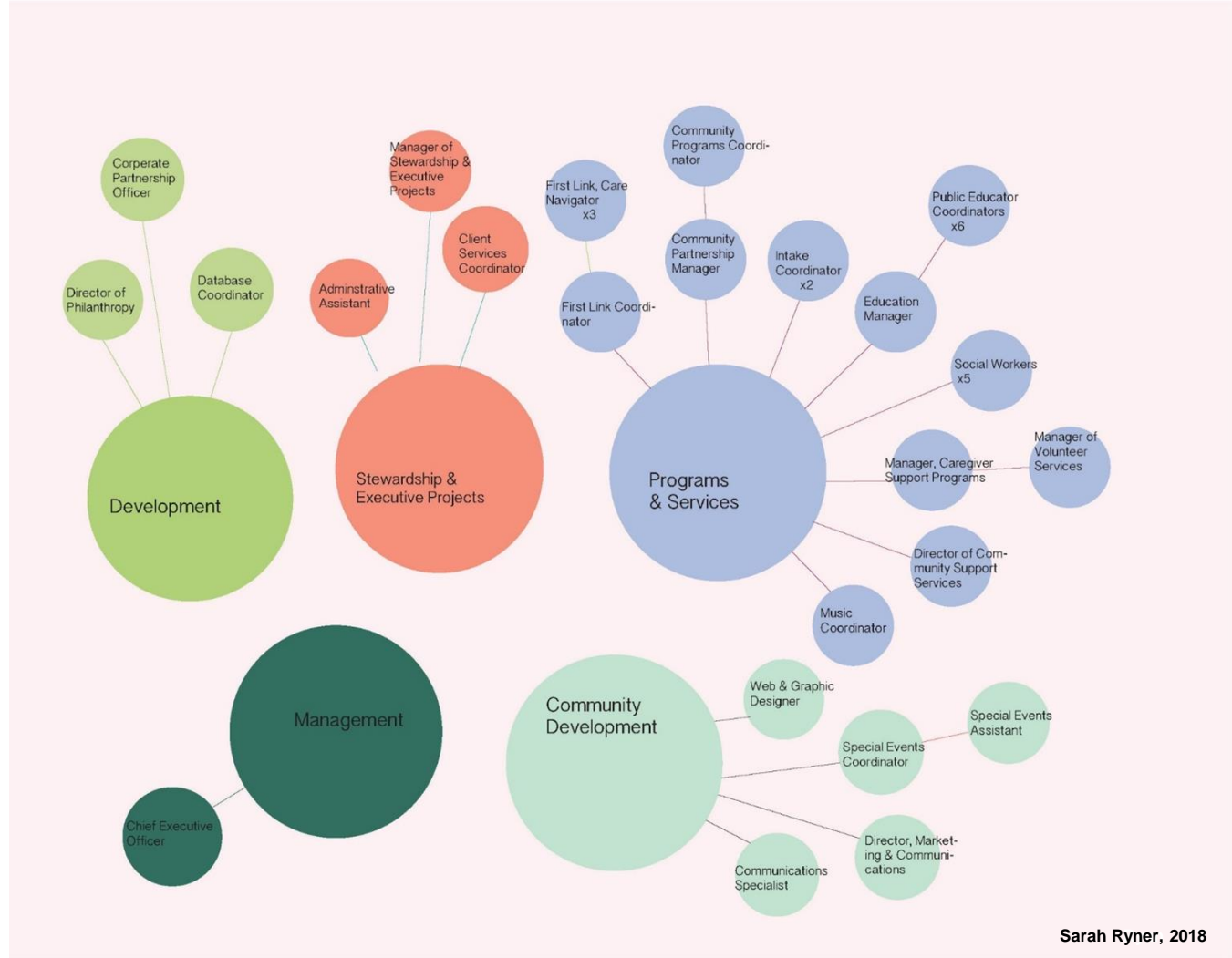
- reading rooms / libraries
- seating/cafe areas
- event spaces for gathering

Boundaries are carefully curated and way-finding provides clear queues.



Program Diagram

Defining client organization & goals



Program Chart

Defining client organization & goals

Department/Areas	Quantity	Number of People	Additionally Specific	Furniture and Fixtures	Proximity	Public/Private	Size
Reception		1 2 Admin Receptionists	Seating for 3	Reception Desk, storage cabinets	Atrium, Family Counseling and Cafe Social Space	Public	33.6 sq m
Private Offices		8 8 partners and counsellors	Seating for 8 staff and 8 visitors	desk, storage and 2 chairs	Open Desks, Board room	Private	13.94 sq m
Board Room		3 seats 16	one room that seats 16 and two that seat 8	long rectangular table, storage and 16 chairs	Open Desks and Media Room	Private	69.7 sq m
Cafe/Social Space		1 seats 25	flexible open eating space	tables, couches and chairs	Kitchen, Atrium and Collaboration tables	Public	131.1 sq m
Kitchen		1 2 staff working simultaneously	open kitchen for multiple staff to prepare food	stove top, microwave, fridge and counter space	Atrium, Collaboration Tables and Cafe Space	Public	142 sq m
Open Desks		60 60 staff members	flexible open cubicle system	desks and file cabinets	Call Room, Board room and Collaboration	Public	557.4 sq m
Collaboration Tables		3 12 staff members	n/a	long tables and benches for collaboration	Cafe Space, Kitchen and open desks	Public	3.7 sq m each
Family Counseling Room		2 2 staff	n/a	4 chairs and table	Atrium, Private offices and media room	Private	13.94 sq m
Atrium		1 20 visitors	n/a	20 chairs and couches	Reception, Family Counseling and Cafe Space	Public	80 sq m
Storage Room		2 n/a	n/a	4 storage containers and shelves	Janitors closet and open desks	Private	10 sq m
Copy Room		1 2 staff members	n/a	copy and printing machine, paper storage shelving	Open Desks and Collaboration Tables	Private	11.5 sq m
Media/Presentation Room		1 16 people	n/a	media console and 16 chairs	Board room and open desks	Public	69.7 sq m
Call Room		3 1 staff member	n/a	1 chair and small desk	open desks, collaboration tables and board room	Private	9.29 sq m
Janitor Closet		1 n/a	n/a	storage cabinets	Hallway and storage	Private	12.42 sq m
Washroom		2 6 people at a time	Barrier Free open vestibule	2 gender specific barrier free washrooms	Hallway that connects to each tenants unit	Public	14 sq m

Site Research



1900s

1910s

1920s

1930s

1940s

1950s

1960s

1970s

1980s

1990s

2000s

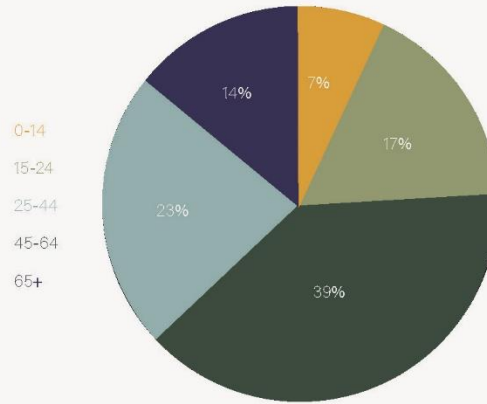
Today!



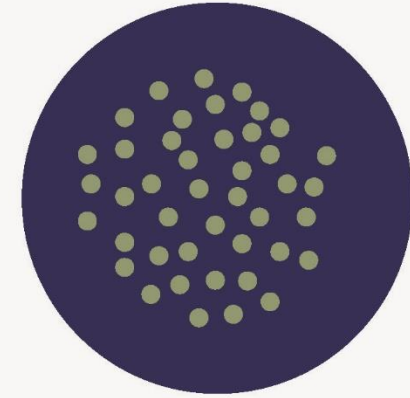
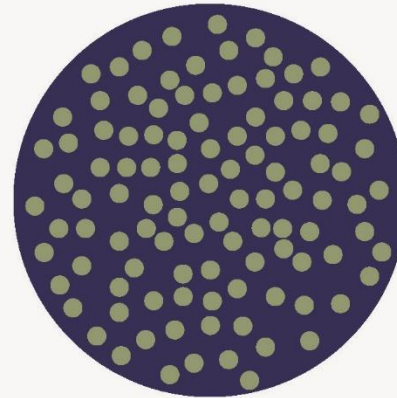
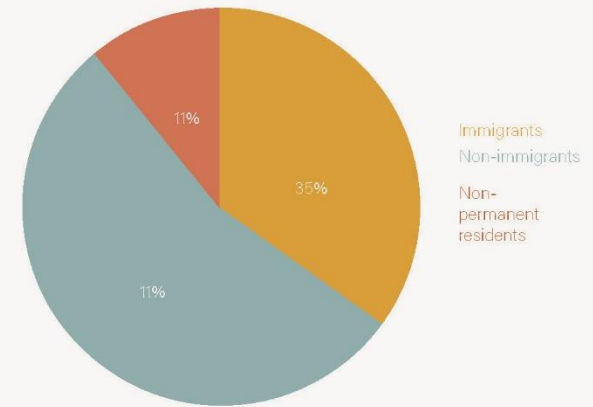
Site Research

Demographics

POPULATION BY AGE



IMMIGRANT POPULATION

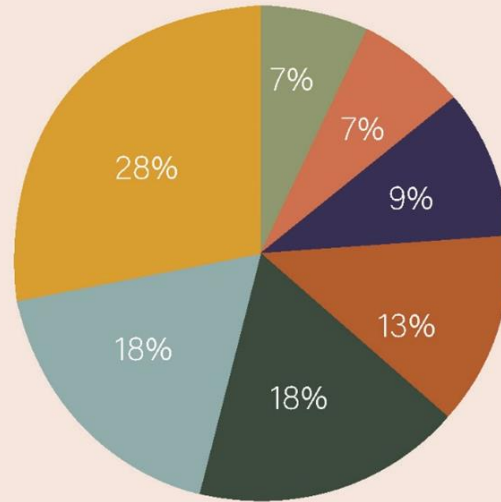


POPULATION DENSITY

Site Research

Demographics

OWNERSHIP IN SURROUNDING AREAS



- Stores
- Art and Design
- Beauty & Professional Services
- Food & Drink
- Professional Services
- Health Services
- Retail

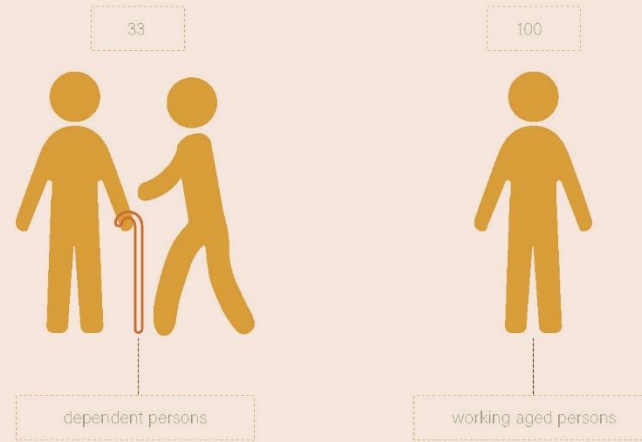
CURRENT USE

- Infrastructure Ontario
- The Skyscraper Center
- Canada Post
- Ryerson International
- Ontario Financing Authority
- Eisen Consulting Group
- Learning Tree International



Site Research

Demographics



For every 100 working age people, there are 33 dependants. This includes: children and senior citizens.



Percentage of dwelling types in Ward 22 (Toronto, Ontario)

Design Research

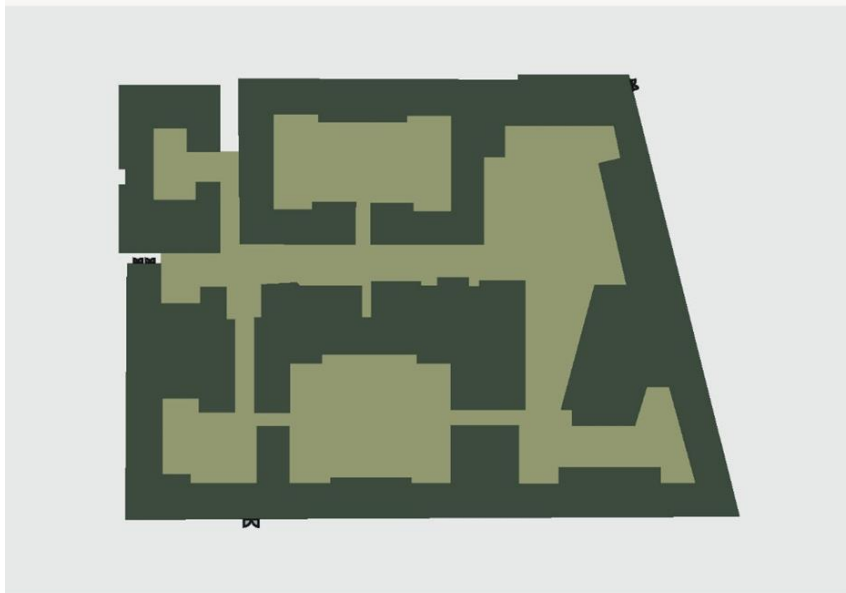
Project Precedents

Frolov, Young, Mostafaei, Brathwaite-Lynch 2018



HOGEWYK VILLAGE Just Outside of Amsterdam

Hogewyk Village is a closed, self-contained village, where people with Alzheimer's and dementia can live independently within the safety of the village walls. The village recreates everyday life, allowing patients to live in their own apartments, visit the grocery store, go to cafes, all the while surrounded by caretakers dressed in regular clothing. Each patient has their own apartment, designed as closely to their past lifestyle as possible. Residence buildings are divided based on their interiors, and are divided into seven lifestyles: Artisan, Christian, Cultural, Gooise, Homey, Indonesian, and Urban.



- Public Spaces
- Private Residences
- Staff Entrance and exit

INTERIORS DIVIDED BY LIFESTYLE



The Artisan
Homes for proud trade workers, such as plumbers, carpenters, and craftsmen. The atmosphere is homey and cosy, with a solid and traditional layout.



The Christian
Religion is a central part of these residents' lifestyle, the buildings filled with prayer and religious music, with a more modest and restrained interior.



The Cultural
Art, culture, and literature is very important to the residents. Reading, theatre, museums, and concerts are promoted, and interiors are more refined and cultural.



The Gooise
Posh and upperclass, the Gooi of the Netherlands pay great attention to appearances, preferring classical and tasteful interiors.



The Homey
Caring for family and day to day housekeeping is important to the residents, and interiors are kept tidy and homey, with a warm and cosy atmosphere.



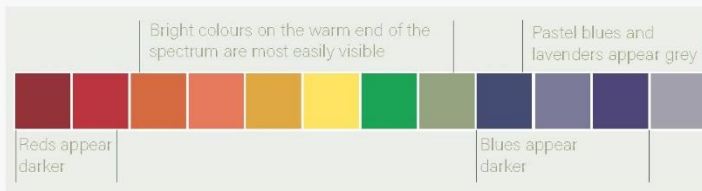
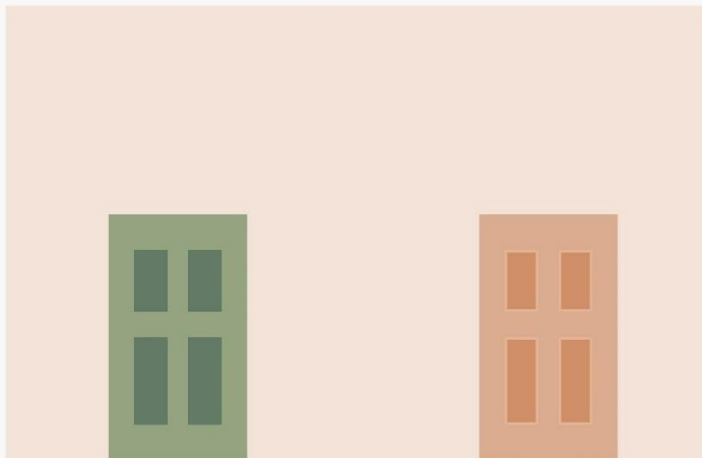
The Indonesian
Tradition, nostalgia, and memories of Indonesia are celebrated in these interiors, as well as outside, with trips to the Asian market and the Indonesian Society.



The Urban
Residents are more social and extraverted, wanting to be involved in social outings and gatherings. The atmosphere is vibrant and interiors are more modern.

Design Research

Spatial Considerations



Flooring

Patterned or shiny flooring can become confusing or a perceived danger to those with Dementia and Alzheimer's, becoming blackholes, puddles, or rough terrain in their minds. Solid coloured, matte finished flooring creates the most comfortable and welcoming environment. Area rugs can become tripping hazards, all flooring must be properly secured.

Doors

Older people and those with Dementia and Alzheimer's have a more difficult time distinguishing between similar colours, and need three times the contrast between colours than younger people. Spaces such as supply rooms, IT rooms, and custodial spaces can be 'hidden' from impaired users of the space by making them the same or a similar colour to the wall, while more welcoming spaces such as the show-room, the VR room, and bathrooms can be easily found with bright, contrasting doors.

Colour Spectrum

Colours appropriate for this specific design include:

Blue: is an intellectual color. It represents trust, logic, communication, and efficiency. Use blue as the primary color in office areas that require focus and mental strain.

Yellow: is the emotional color. It represents creativity, friendliness, optimism, and confidence. Incorporate yellow when you want to stimulate positivity, creativity and happiness.

Green: provides balance. It represents harmony, nature, and restoration. Green proves to be a great color in offices that require people to work long hours, since it's the easiest color on the eyes (requiring no adjustment). It's also a great color to use anytime a sense of balance is top priority, which is why it's commonly found in medical offices.

Orange: blends the physical (red) and emotional (yellow), creating a sense of comfort. It is often associated with food and warmth, and is therefore a natural choice in kitchens. When used appropriately, it is also a fun color, making it an option for a casual office lounge.

Synthesis

- Outcomes that synthesize gathered data
- New solutions
- A cohesive vision for a client space that welcomes users living with dementia



Ilanit Frolov, 4th year student, Bachelor of Interior Design, Ryerson School of Interior Design



Concept Statement

Find Your Way challenges the way work is defined by proposing a work by learning environment.

This ever-evolving centre for discovery is essentially a hub for employees and clients alike.

- Multipurpose work spaces and productive lounge areas.
- This mobile environment encourages working in unconventional ways and supports several educational factors that are vital not only to the employees but to the clients as well.
- Rooms such as the classroom, show room and library perpetuate the idea of learning through work.
- **Find Your Way** becomes an active hub for both groups of users to interact in a way that is productive and encourages growth.



Research Summary

My design for **Find Your Way** challenges the idea of what the workplace is defined as. I began by stripping away the initial and traditional office environment and worked backwards by firstly understanding my concept, and then building my design around the idea of work by learning.

It was important for **Find Your Way** to behave like a community hub, and so it was vital for the design to reflect a communal environment.

Research Matrix

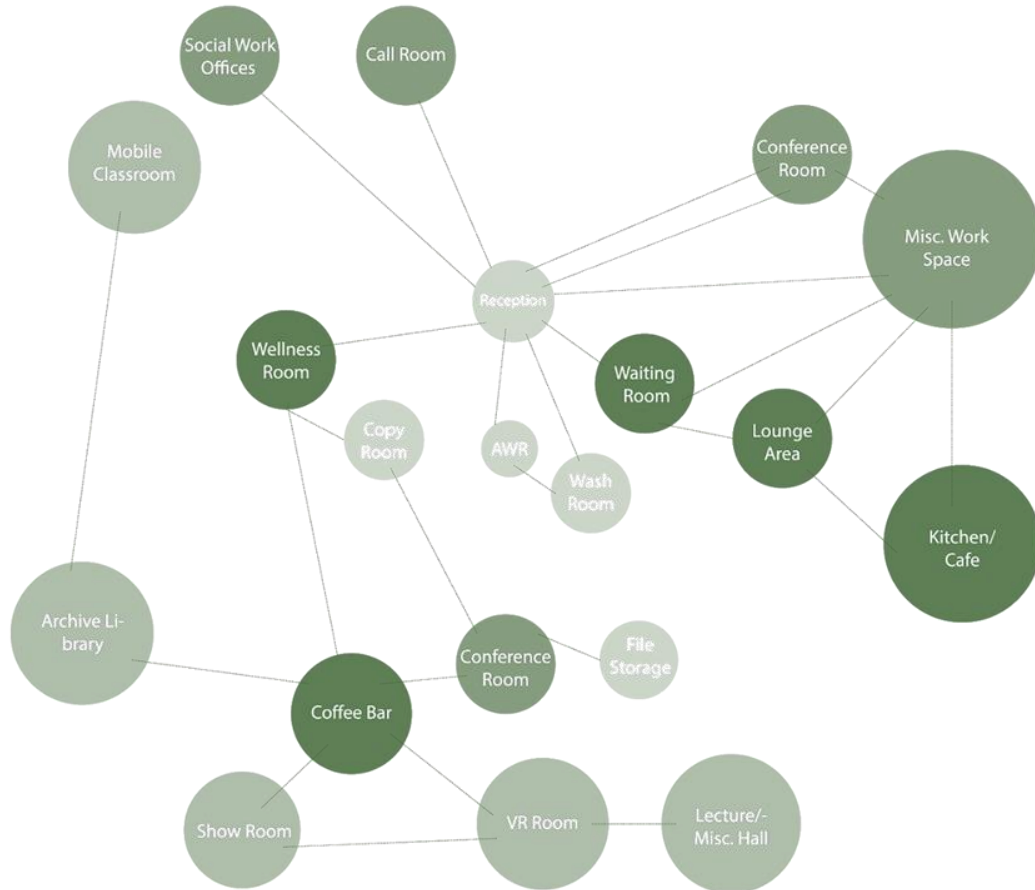
Legend

Work

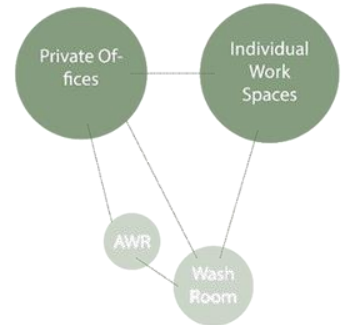
Learn

Rest

Misc.



First Floor

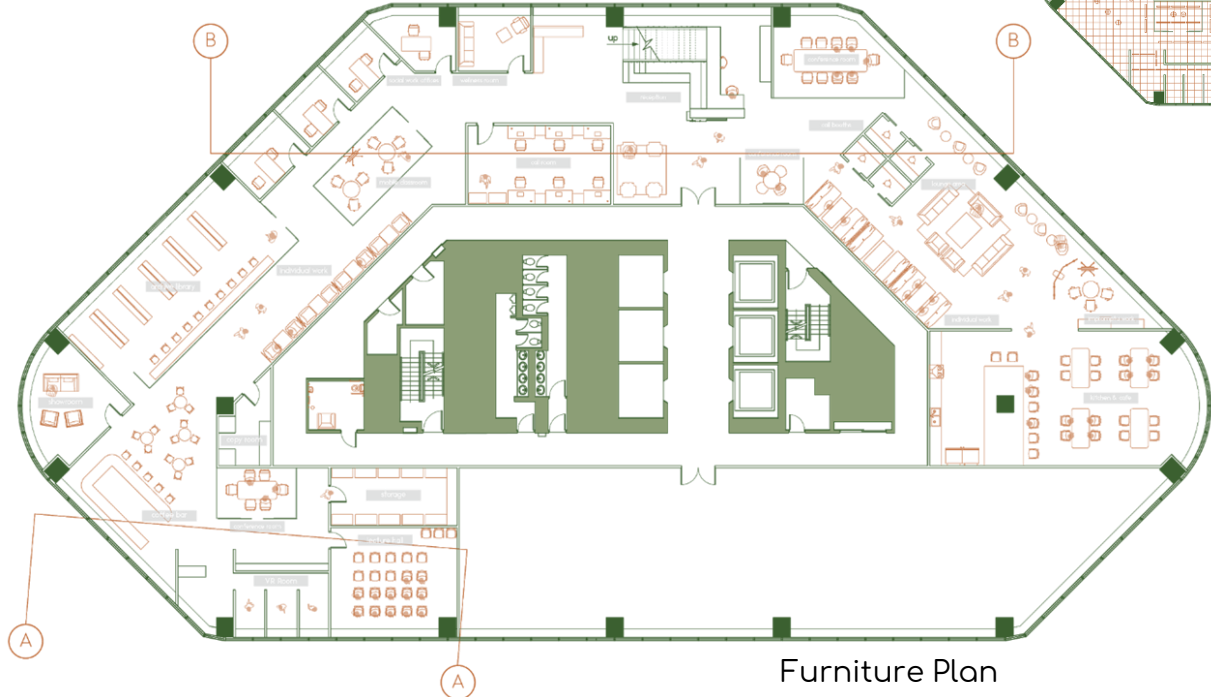


Second Floor

Target Market

- Family caregivers
- People living with Alzheimer's & Dementia
- General public
- Health-care professionals
- Volunteers
- Students studying health care/medicine

Furniture Plan & Reflected Ceiling Plan - Floor 1



Furniture Plan



Ceiling Plan

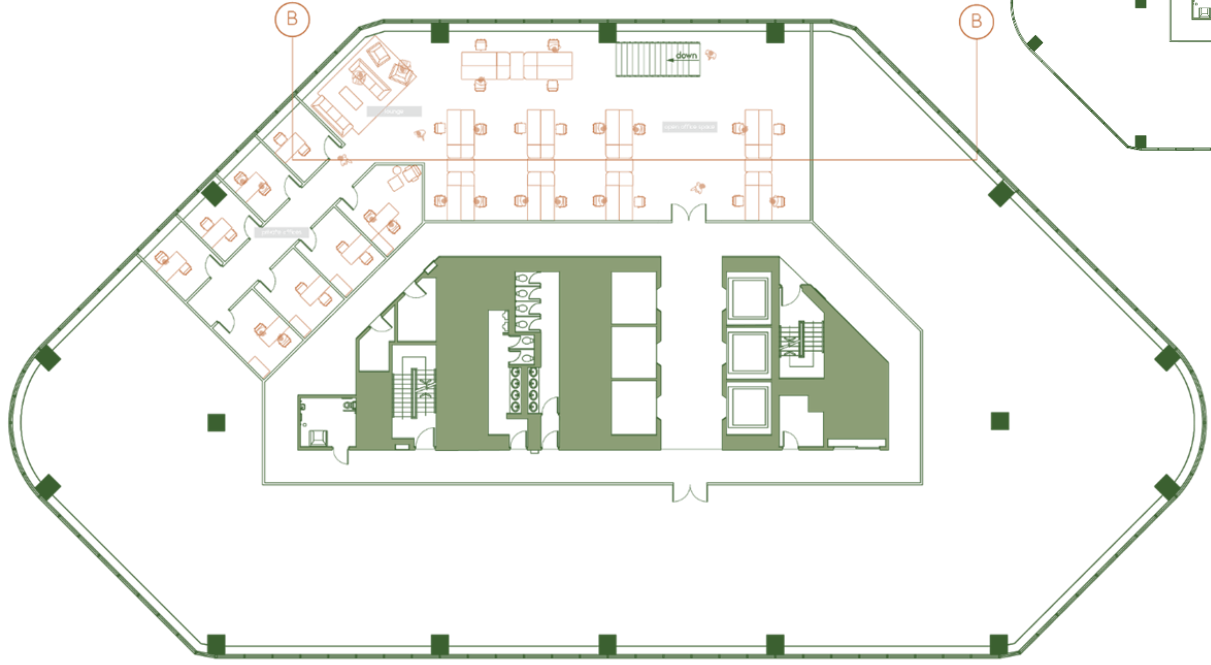
Lighting Legend

- Recessed Linear Lighting Fixture
- Recessed LED Spot
- ⊕ Pendant light
- ⊕ Walk-in pendant light
- Small pendant light

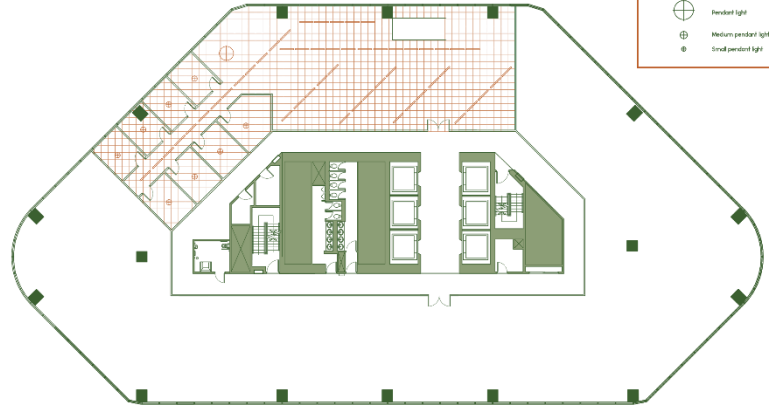
Furniture Plan & Reflected Ceiling Plan - Floor 2

Lighting Legend

- Recessed Linear lighting fixture
- Recessed LED light
- Pendant light
- Medium pendant light
- Small pendant light

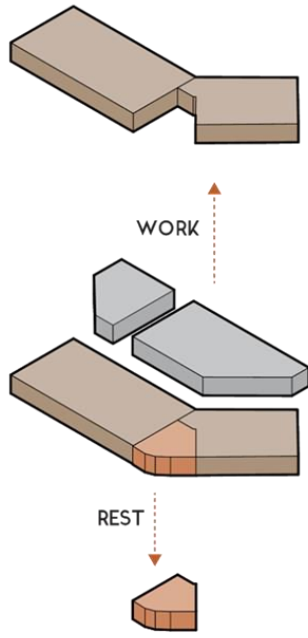
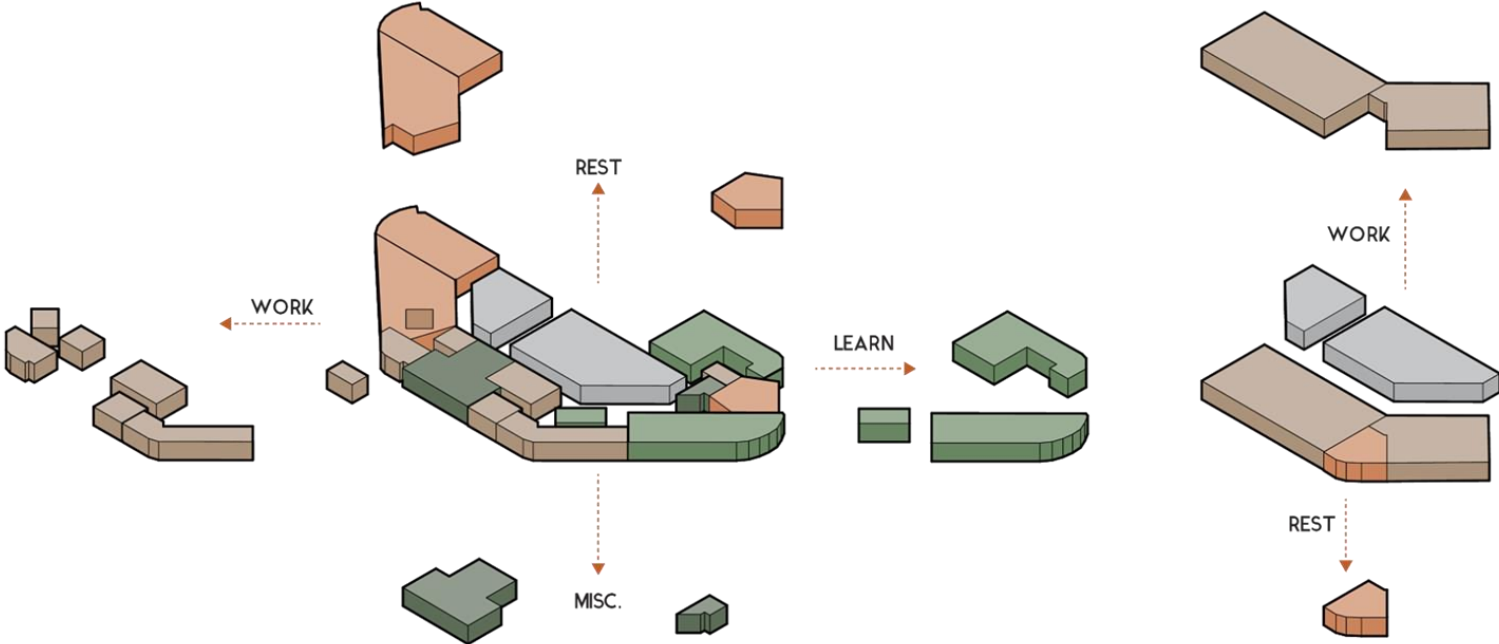


Furniture Plan



Ceiling Plan

Zone Diagram



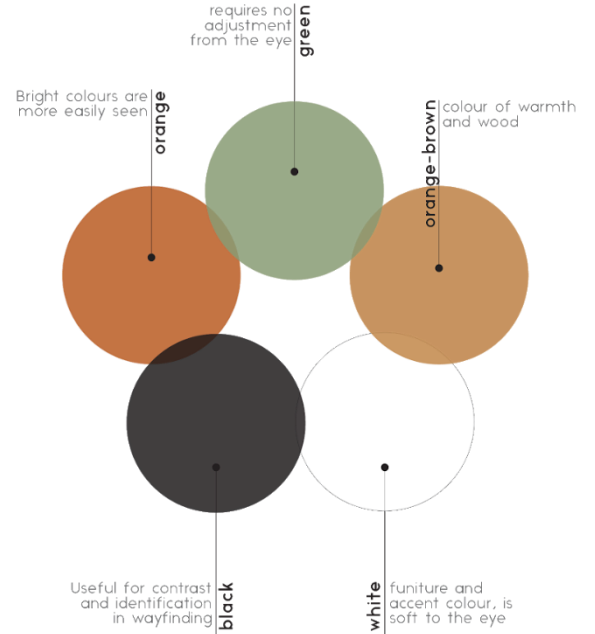
Wayfinding, Acoustics & Colours



Wayfinding

Certain things need to be considered when designing for people with Alzheimer's. Felt panels should be used to absorb sound throughout the space. In rooms which produce more noise, such as the copy rooms or class room, acoustic ceiling tiles should be used to prevent noise from escaping those rooms. Carpeting in lounge spaces or conference spaces should also be considered to better absorb excess sound.

Acoustics



Colours

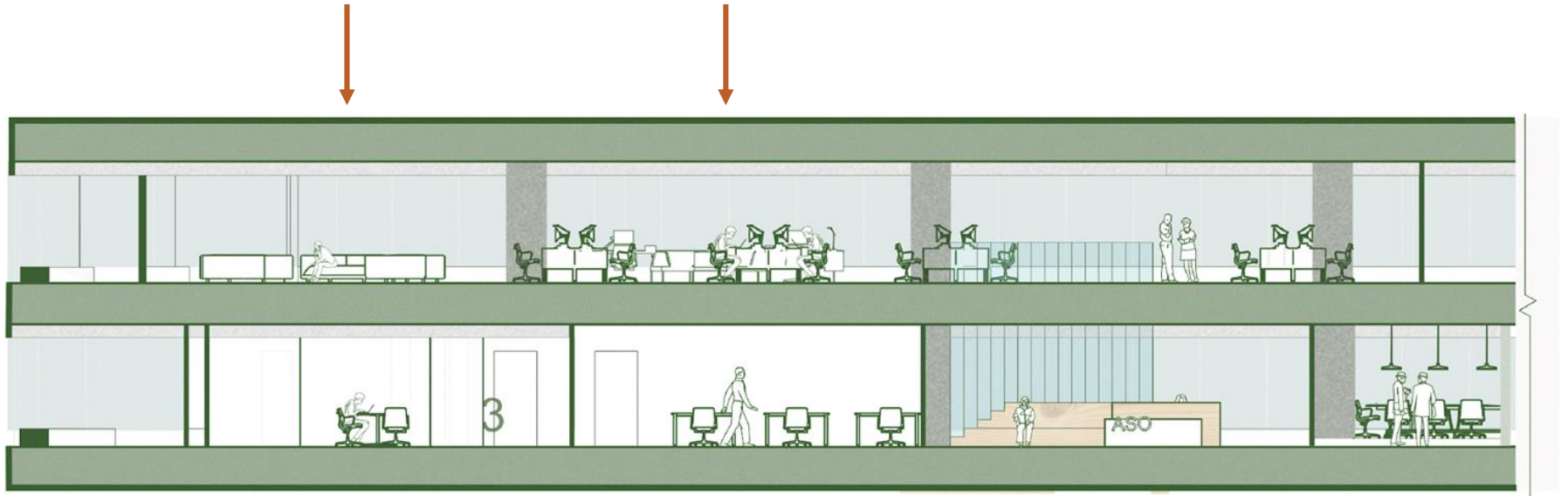
Reception



Relationship of 2 floors

Upstairs Lounge

Traditional Office



Private Office

Call Room

Reception

Conference

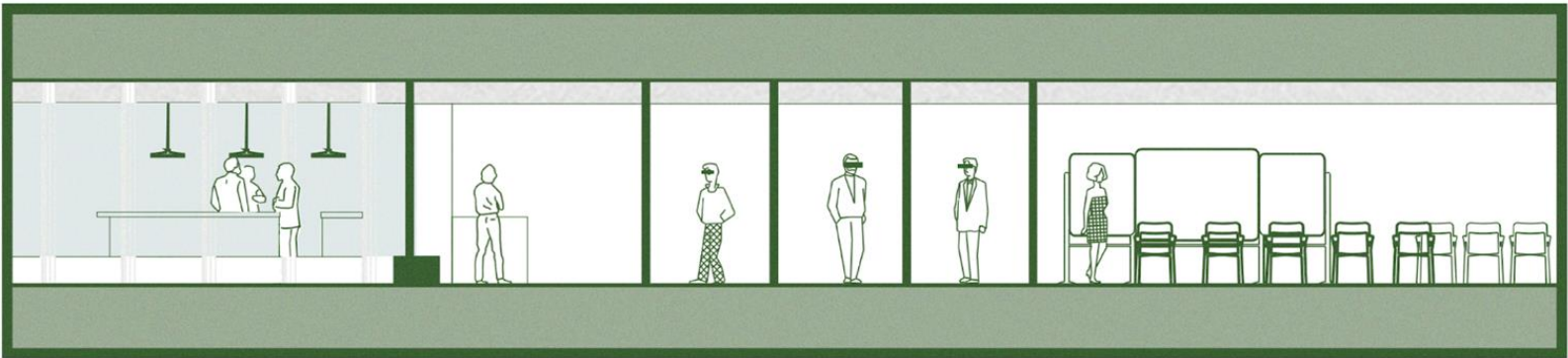
Second Floor Office Space



Coffee Bar



Virtual Reality & Classroom

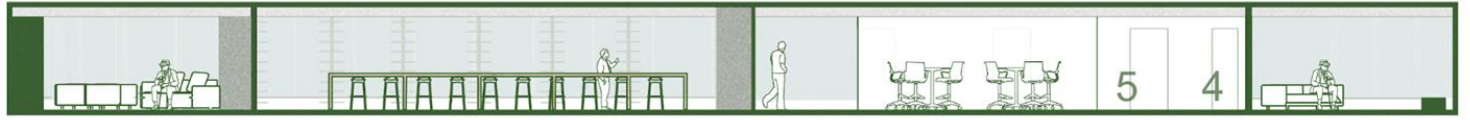


↑
Coffee Bar

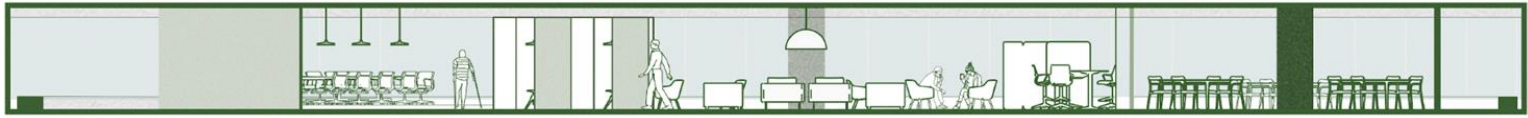
↑
Virtual Reality

↑
Lecture Classroom

Archive Library



Lounge Area



Conclusion

By challenging the traditional work environment, **Find Your Way** is attempting to change the way employees approach their job and changing the way clients with dementia experience life.

- As a **community hub**, clients are able to interact, grow and learn just as much as the employees can.
- This type of environment fosters **clients who feel validated** and have an enhanced sense of self.
- **Find Your Way** can allow people living with Alzheimer's & dementia to experience a happier and more rewarding way of life.

Selin Yasar, 4th year
student, Bachelor of
Interior Design,
Ryerson School of
Interior Design



The Prelude

Selin Yasar

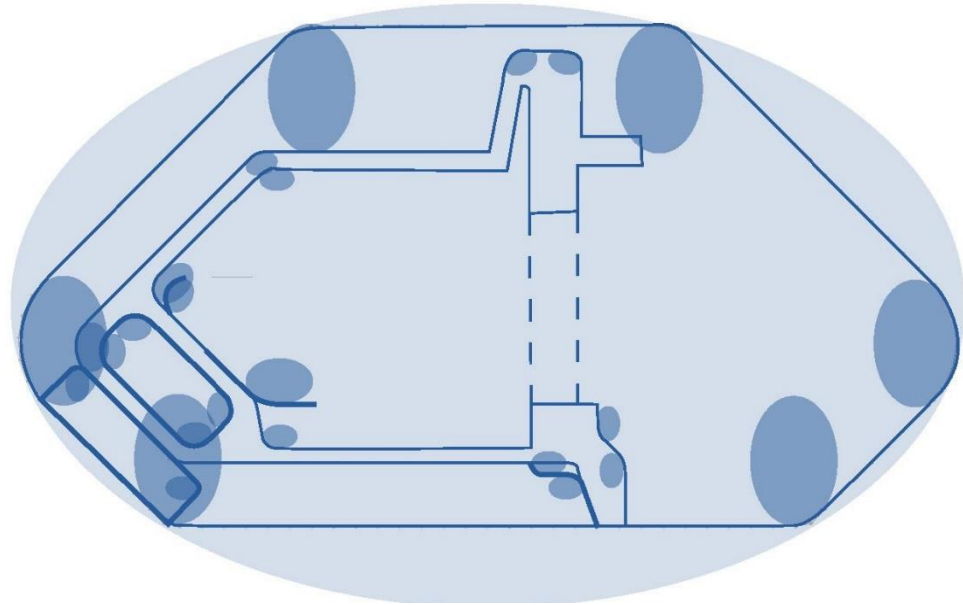
Concept

- Prelude Is the beginning of a series - this project prioritizes those who live with Alzheimer's or dementia
- Rooms face away from the loudest areas of 1 Dundas West to create a peaceful setting
- Soft colours and indirect lighting create a peaceful setting
- Circulation is organic and uses the existing curvature of the exterior walls
- Collaboration emphasized - gathering spaces allow for all types of working conditions
- Way-finding, fixtures and furnishings consider use and movement, allowing the viewer to experience the space as they choose



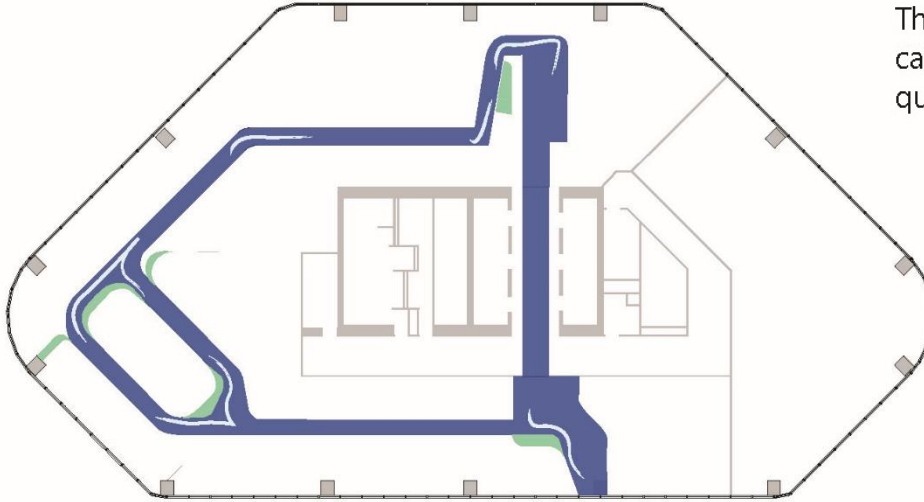
Geometry Diagram

The existing geometry of the building was used to create the interior circulation. By using the same oval shape repeated in three different scales, the flow of movement through the floor plan becomes more organic.

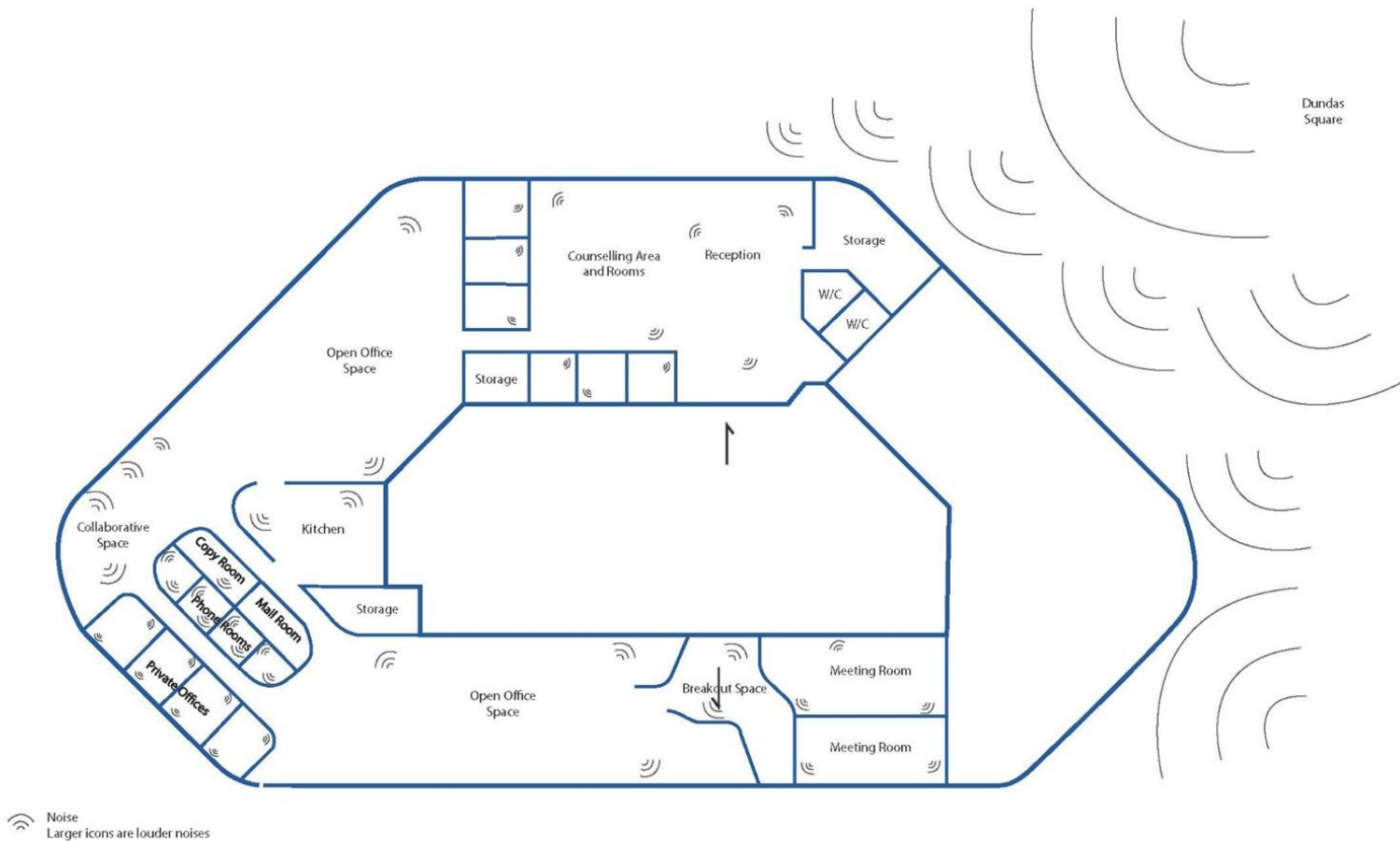


Circulation Diagram

The use of green-space or planters along parts of the curved walls, accentuates this circulation. By reducing the angles of the walls in the path of movement, and reducing accessible floor space in the opposite direction of flow, the person is pushed and pulled into the main path of circulation.



The planters also add greenery into the space which can help with stress relief for the staff and increase air quality.



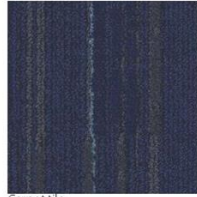
Noise
Larger icons are louder noises

Final Floor Plan
1/16"=1'0"





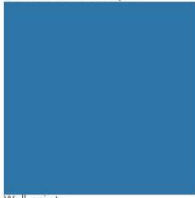
Wood veneer
Energia Natural
Joan Lao for MH Parquets



Carpet tile
9719 Indigo/Asparagus
Interface



Carpet tile
8833 Ardesia
Interface



Wall paint
SW 6959 Blue Chip
Sherwin Williams



Wall paint
SW 6385 Dover White
Sherwin Williams



Decorative pebbles
White Onyx Honed
Soli



Carpet tile
Sunkissed Landscape
Interface



Laminate
Citadel
Formica



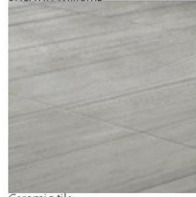
Wall paint
SW 6887 Navel
Sherwin Williams



Laminate flooring in wood finish
LOFT Collection: Moonlight
Canadian Standard



Wood veneer
Madrone
Oakwood Veneer Company



Ceramic tile
Artwork
Got

The materials in the design of the Alzheimer's Society use warm, and soft colours for the floors and walls. The paint and flooring materials are non reflective and absorb light, in order not to confuse visitors who may have depth perception.

The blue carpeting uses the society's branding colours to create a vivid path of circulation. The complimentary colours of blue and orange create contrast within the predominately neutral spaces.

The laminate and carpet options which were chosen for this project come from environmentally conscious companies and are very easy to clean for uses in a commercial setting. Laminate in the counseling areas, along with the use of area rugs mimic the setting of a living room in a home. While carpet tile in the open office spaces provide acoustic insulation.

Reflected Ceiling Plans

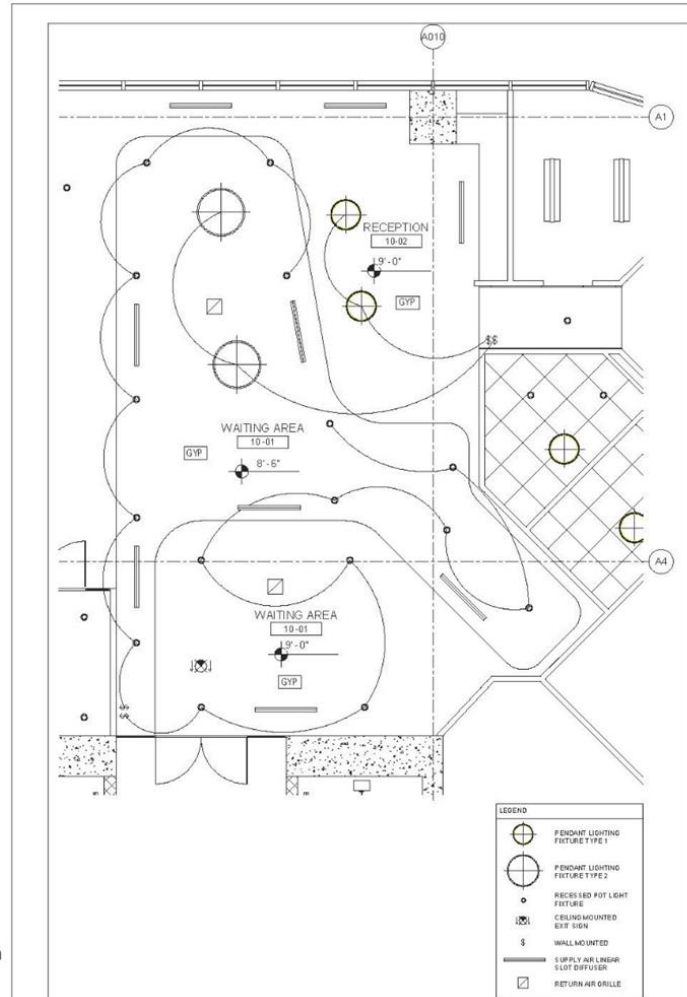
Warmer lighting in the counseling areas provides a cozy and home-like space. This allows visitors who may be discussing difficult topics to feel more comfortable.








Alternatively, the work areas have cooler lighting to promote productivity and to keep staff alert.

Indirect lighting in the form of dropped ceilings and cove lighting creates an even lighting environment which is essential to those who have Alzheimer's and depth perception. More direct lighting is provided in areas of gathering.



RCP of Reception
1/8"=1'0"



LEGEND	
	RECESSED POT LIGHT FIGURE
	PENDANT LIGHTING FIGURE TYPE 1
	PENDANT LIGHTING FIGURE TYPE 2
	PENDANT LIGHTING FIGURE TYPE 3
	PENDANT LIGHTING FIGURE TYPE 4
	STRIP FLUORESCENT LIGHTING FIXTURE
	CEILING MOUNTED TRACK LIGHTING

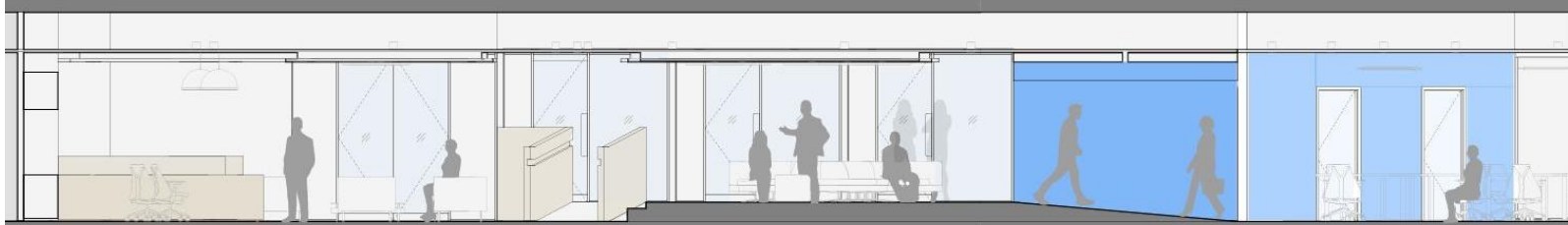


1/16"=1'0"

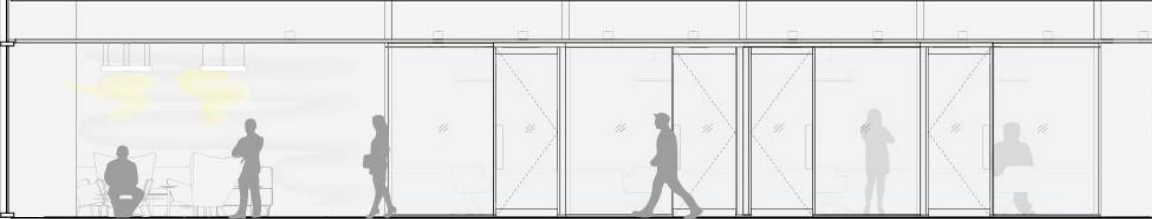
Reception Area



Program Rooms and Lounge



Collaborative Work Space



Kitchen



Open Office Space

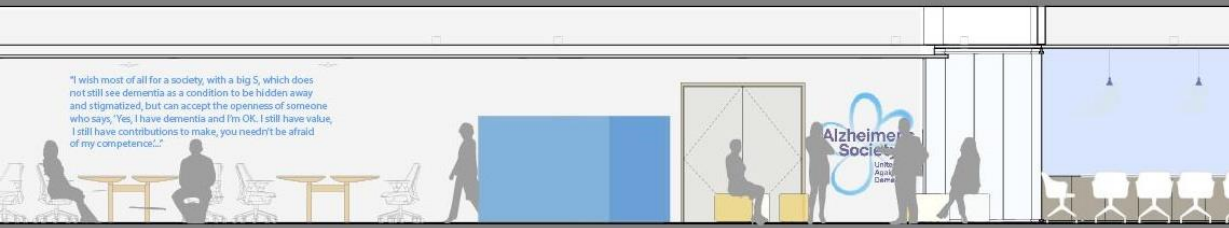


Taking on dementia together.

"I wish most of all for a society, with a big S, which does not still see dementia as a condition to be hidden away and stigmatized, but can accept the openness of someone who says, 'Yes, I have dementia and I'm OK. I still have value, I still have contributions to make, you needn't be afraid of my competence!'"



Breakout Space



Design for Dementia

- Promoting the impact of design
- Dementia awareness in design
- Interdisciplinary design considerations
- Creating space in academia
- Experimentation & testing
- Knowledge creation
- Knowledge sharing -
Resources for learning
- Outreach & engagement
- Connect with Ryerson

Say hi!

We're happy to collaborate



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