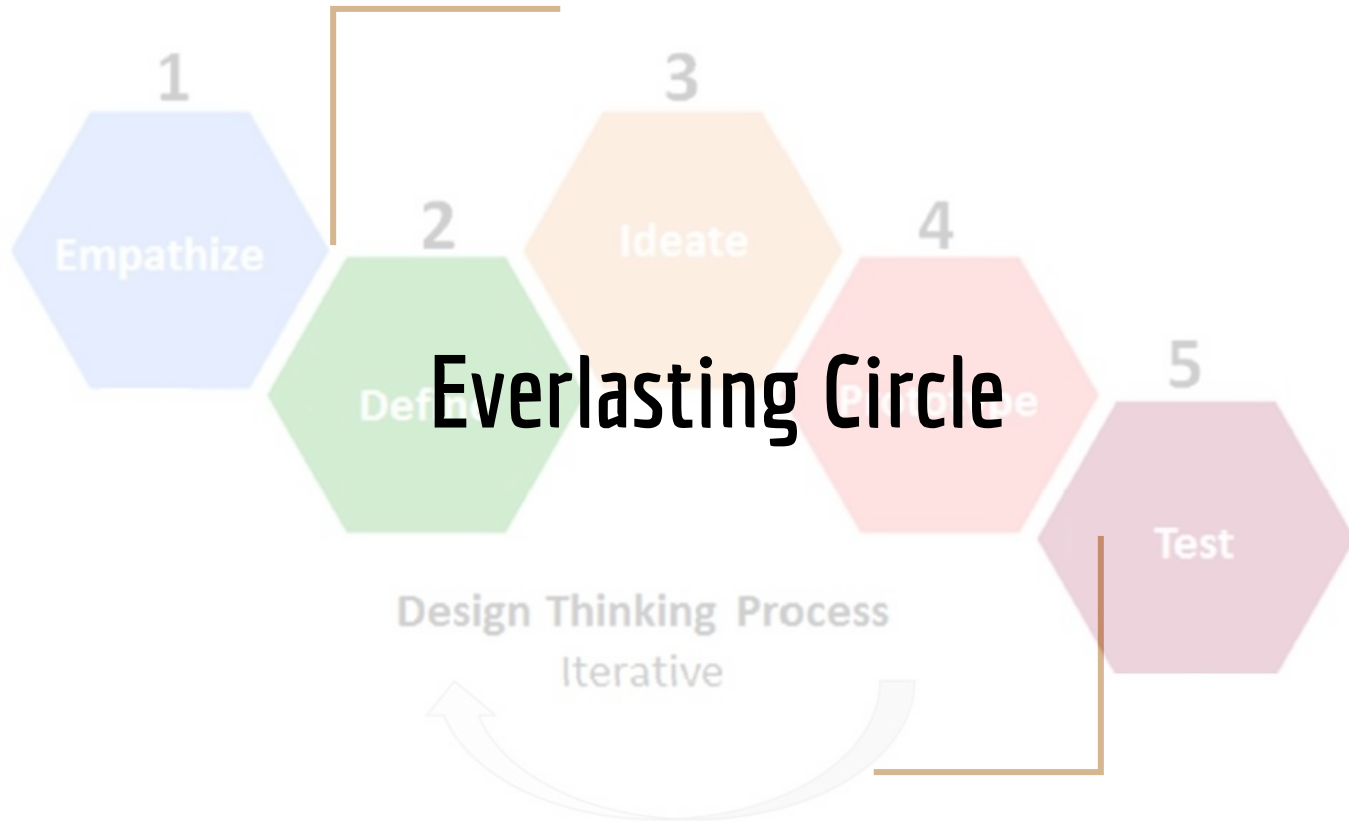


# Design Thinking Process





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GNG 1103 – Engineering Design

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*A need exists for the Algonquins of Pikwakanagan  
Neyagada Wabandangaki Guardian Program to  
acquire a building for laboratory work and  
processing, and community events and involvement,  
which would reflect the values of their community  
and will act as a multifunctional space for the  
work done by the Guardian Program.*

## Problem Statement

# Concept

'The perfect testing and lab facility'

The concept we devised capitalizes on the idea of integrating elements of nature into various communal work areas. This trend has seen a boom in recent years as it promotes a healthier, more creative workplace.

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# Inspiration

‘Where the idea came from, its cultural significance and reason for choosing’

Our Design’s idea was inspired by the Medicine Wheel.

- A Circle represents no Start or End
  - Represents Good Health
  - Symbolizes Longevity
  - Represents Perfection
  - Represents natural phenomena (The Sun, Eyes, etc.)
  - An appropriate reflection of Indigenous Culture
-

# Economics

'Estimated pricing of materials, land value, and service access'

We developed Price Estimates of implementing the design that we have come up with. This value is based on about 11310 square feet of the building, its interior elements and layout, and the land that it will occupy: \$2,262,000

From RS Means

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# Considerations

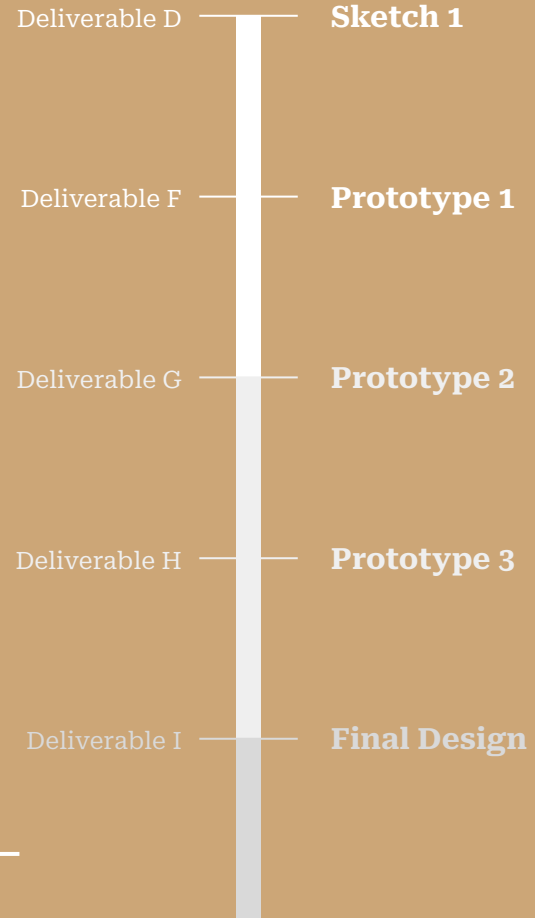
‘Health and safety, environmental and community considerations’

Various considerations pertaining to the sustainability and longevity of this laboratory were put into place. The vision for the building was for it to become a focal point in the region, encouraging community involvement

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# How it came to be

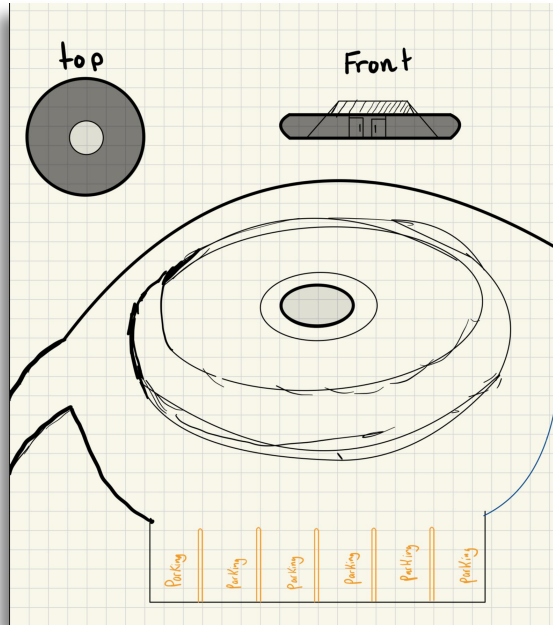
'A timeline with each model corresponding to a deliverable'





# Preliminary sketches

*Our initial sketch*



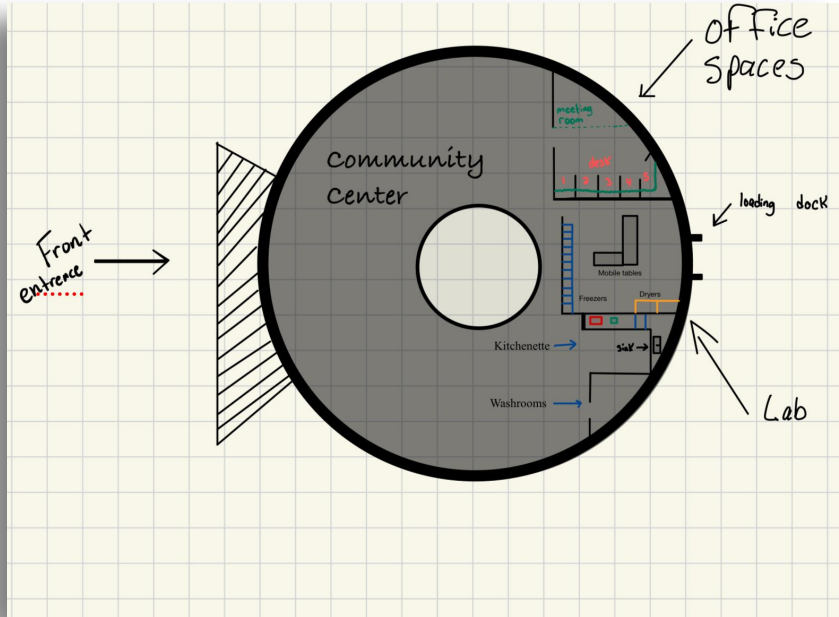
*Apple park Cupertino*



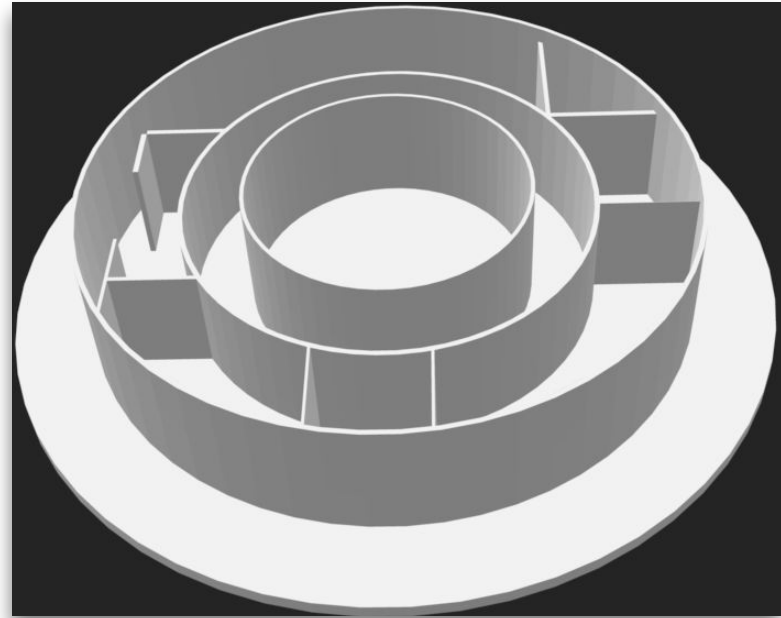
*Unfortunately, this is only a sketch, merely an idea...*

# Prototype 1

*First floor plan layout*



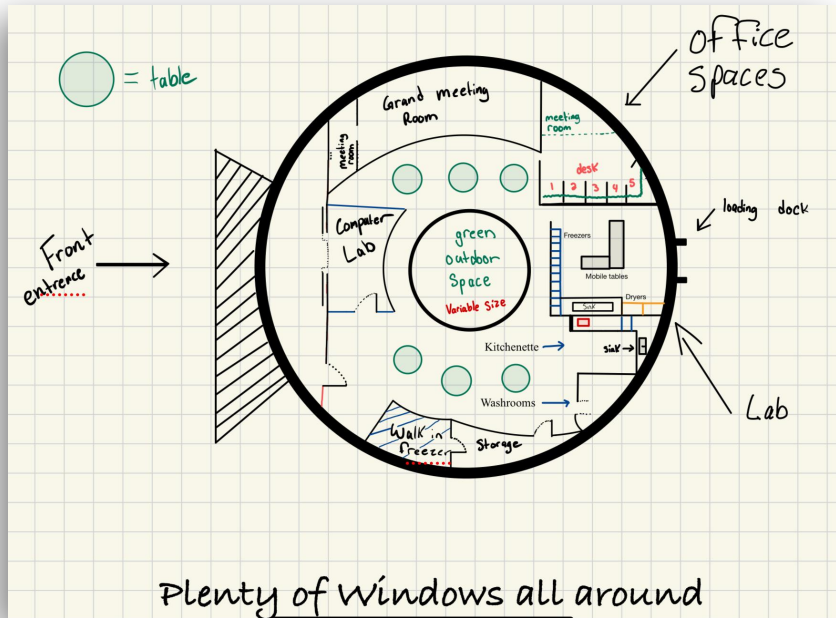
*Preliminary Modeling*



*The client are not in need of such a large community area and have opted for modifications as seen in prototype 3*

# Prototype 2

*First second plan layout*



*Plenty of windows all around*

*Preliminary renderization*



*The clients were very happy with this design and layout, now onto the modeling*



# Prototype 3 - - Finalization

*Modeling of meeting room*



*Secondary view*



*From this point, modeling the remainder of the design as seen in the following slides*

# Final design





# Board Meeting Room



# Aerial View of The Board Room





# Meeting Room





# Top View



# Outside View

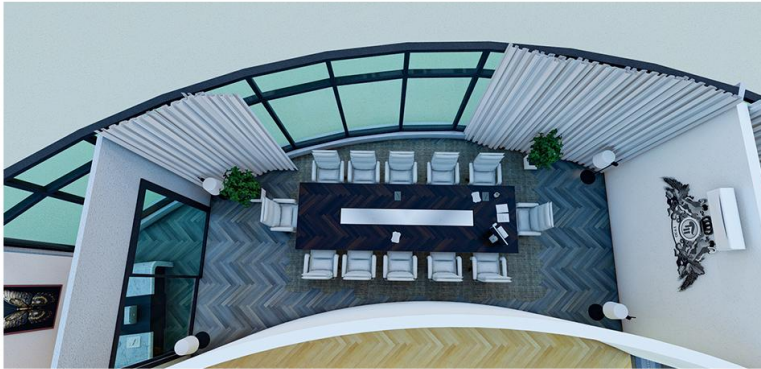


# Kitchen & Garden Centre/Green Room





# Overall Layout, Including Cubicles



# Lounge Area



# Top View of The Lobby/Lounge Area





# Washroom

