Deliverable F

1. **Client meeting Notes:**

Although we have yet to receive the official client notes, based on our inquiries, the clients demonstrated positive feedback where all the needs appeared to be met, and there were no additional criticisms. Thus, it is essential to maintain the current design choices while continuing to complete the prototype and keep the set design the same.

3. A simple analysis of critical components or systems should also be included, based on your current knowledge of engineering science or other knowledge.

The critical components in our building are the lab space, storage room, kitchen/break room, offices, and boardrooms.

Based on our current knowledge and client feedback, the client values a functional and sustainable building. With this in mind, we created a nice open workspace in the back of the first floor. The garage door where employees expect shipments is kept close to the storage room for easy access. The storage room also includes a walk-in freezer where whole moose can be stored. The plant processing workstation is surrounded by shelving units where samples and equipment can be stored. The computer lab space is located further away from the garage door, where the computers are segregated from the busier area. This ensures that the electronic equipment is kept away from any potential hazards, including the cold weather when the door is open.

The smaller offices and a large boardroom are located on the first floor. The larger offices and main boardroom are on the second floor. These two critical components are organised together so different building areas are separated into corresponding activities.

The kitchen and break room are combined with a shared workspace area. This was designed while keeping social aspects in mind and making sure there was enough counter space for simple appliances that would be added (coffee machine, microwave, etc.).

Although not a critical component, the main entrance greatly affects our overall aesthetics and reduces the industrial atmosphere. The washrooms are kept nearby for convenience, and the staircase wraps around the large tree, with an elevator in the centre for accessibility.

2. **Feedback from Others**

Others have provided overwhelmingly positive feedback on the house design we created. They appreciate the innovative and modern architectural approach, especially the seamless integration of form. And creating a sense of openness and connection with the surroundings. The thoughtful incorporation of sustainable and

energy-efficient features has been commended, emphasising a commitment to environmental responsibility. The layout has been well-received for its practicality and versatility, meeting the diverse needs of potential occupants. Additionally, the aesthetic appeal of the exterior design, characterised by clean lines and harmonious proportions, has drawn admiration.

3. **Updates, if needed**

Given the client's and peers' limited feedback, Our next prototype will be a more in-depth version of the current prototype 1. It will, however, include basic electrical requirements so that the client can give feedback about the placement of light fixtures, the number of available outlets across the building, etc. The feedback we received from peers was that our design could include more offices in case the client would like to expand their operations in the future. We made changes to this prototype to accommodate this feedback by incorporating a larger communal workspace by the kitchenette. We will receive further feedback to see if this is enough to accommodate the company's expansion or if further adjustments need to be made for prototype 3.

For the next client meeting, we will hopefully have more one-on-one time with the client to get a more in-depth analysis of our work and go through our testing criteria thoroughly. Then, we will be able to make more relevant and impactful changes to the current design that will reflect both the client's needs and expectations of the design.

4. **Prototype Testing Plan**

Test ID	**Test Objective (Why)**	**Description of Prototype Used and Basic Test Description (What)**	**Description of Results to be Recorded and How these Results will be Used (Why)**	**Estimated Plan Test Duration and Start Date (When)**
2	- This is communication to get feedback on the design in order to make any adjustments to fulfil requirements or	- The prototype will consist of a 3D comprehensive analytical model of the prototype II is focused and	- The main results will be measured on a pass or fail basis if the reviewer feels the expectation of	- The main dependency would be the actual creation of each prototype. To evaluate their

	needs better, or more practically or aesthetically realise design concepts. - Feedback will be given by peers, TAs, PMs and the Professor; however, ultimately, receiving feedback from the client directly (via client feedback) would be the most optimal way to test the prototypes as they understand their needs and personal preferences best. As the client feedback will be delivered after this deliverable is to be submitted, it will be used to influence prototypes II and III. However, it can only be documented in the following deliverable. As there is an accessibility constraint where we are limited with the meetings we can conduct with them, the feedback from others who understand the project or are also working on it can still be beneficial. - The primary way the test will determine if the	will evaluate one overall subsystem. The chosen one as of this submission will be the exterior, and as a backup, the office will be used. For multiple people to generate the design with multiple subsystems, it is more efficient to all work separately on the same overall system. Additionally, many minor changes may be more practically done using software. Finally, to test the prototype, a physical model isn't required as there are no performance tests that can truly be done on the models we would have access to making due to time and monetary constraints such as load testing. However, as time permits, we are hoping to incorporate a 3D printed version of the model to	the needs are met based on the presented solution. These results are recorded online, in which a percentage can be compiled of all the data to gauge the average percentage of passing and compile all the feedback for each need or subsystem. - This data will be used to see when to stop. The stopping criteria in this case would be if 90% of all the feedback for each need indicates that it is successful. The prototype will be re-evaluated, altered, and then pushed again for feedback until this percentage is reached. Individual feedback is also essential to see what aspect of the design functions better than others and where most constructive	effectiveness, they must be entirely completed or update to receive proper feedback on the design; as it is not a physical model, some unfinished aspects may not initially be noticed, which, although planned to be done, can take away attention and feedback from more minor errors that were not considered. This prototype isn't a fully developed model. Thus, the feedback given may not be entirely accurate, which is to be considered when developing future models to continue to design them with the ability to make changes, such as doing pieces individually

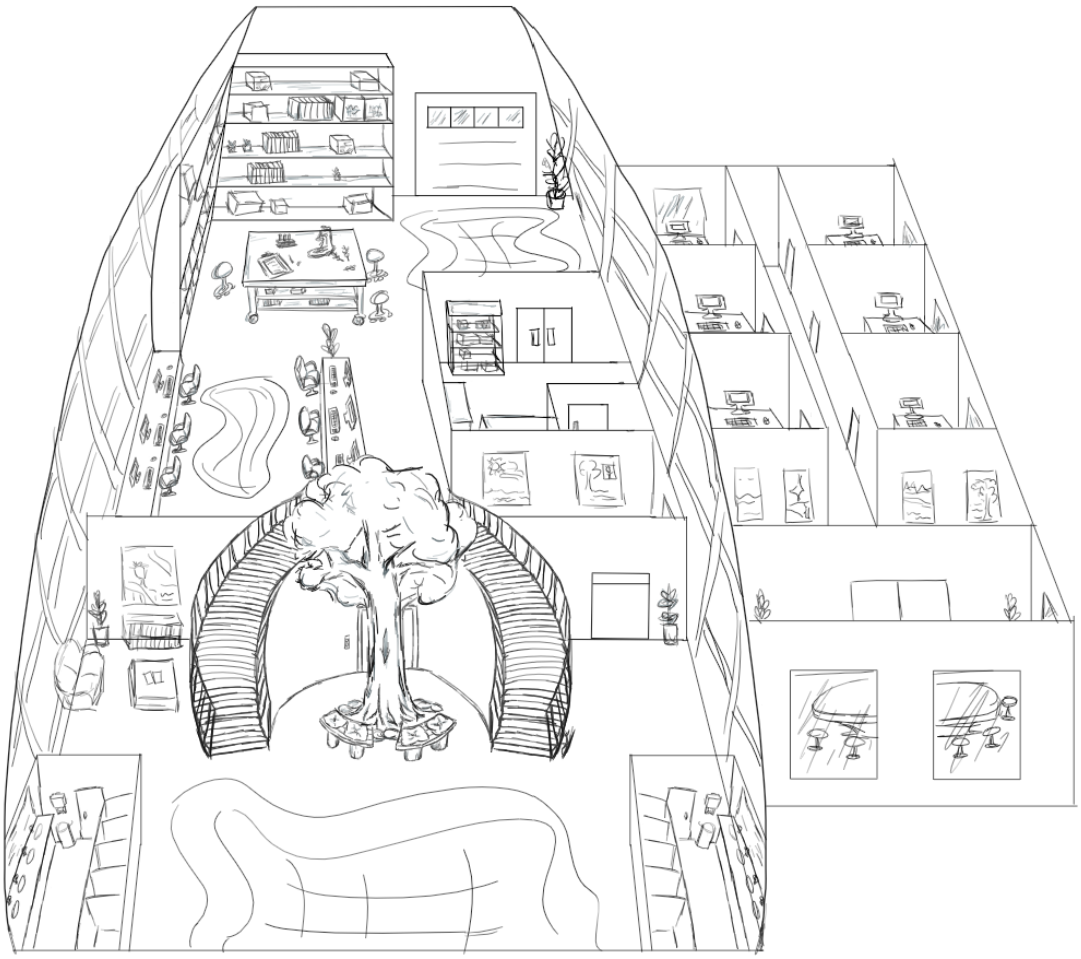
	prototype is successful will be if it meets all the client criteria, as if it at least accomplishes such then it is functional. - The testing will thus consist of a checklist of all the client needs in which the person giving the feedback can evaluate whether it succeeds in each criterion and then add additional comments for improvements.	present a physical design for design day; however, these still potentially Not possible due to time constraints and thus yet to be included in any budget. - The prototype's actual creation will involve using free Archicad. Each person will work on a subsystem or specific part designated to a team's preference to generate a complete model with either each floor and an exterior separate or all combined. It is most likely that for our team, it will have to be independent as assembling it all may be somewhat tricky and having it separate does make it more straightforward to analyse. - As previously mentioned, the testing process simply involves putting all the criteria in a list that can be marked as	feedback is found for each prototype. This aligns with the test objectives.	for changes to become more easily made if needed. - The tests fundamentally depend on how much time the reviewer takes to evaluate the prototype; it is estimated to take a maximum of 10 minutes to review. - The results must be delivered at least two days before the next prototype is due to evaluate the feedback and make changes to the prototype, then follow up with more feedback using the new design. - It is more difficult for the group to receive proper feedback due to the allocated lab time and thus customer meetings and peer meeting time being so

		successful or not with additional comments that allow for more personalised feedback beyond whether or not the criteria was met. The feedback from Prototype I was analysed to generate critical ideas/changes based on the feedback. Additionally, all the target criteria was met, and the needs were evaluated to have been met with at least 90% accuracy.		close to the due date, so it may not be enough time to have people respond and interpret the data and make changes. If somehow substantial feedback could be delivered before Thursday then it would be more reasonable if the due date was pushed. It is still worthwhile to compile this data to improve the product regardless of the deadline to understand better where the design gaps are. The Gant Chart allocates six days to collect data which would be more than enough alone; however, as mentioned, the prime time on Thursday morning simply needs

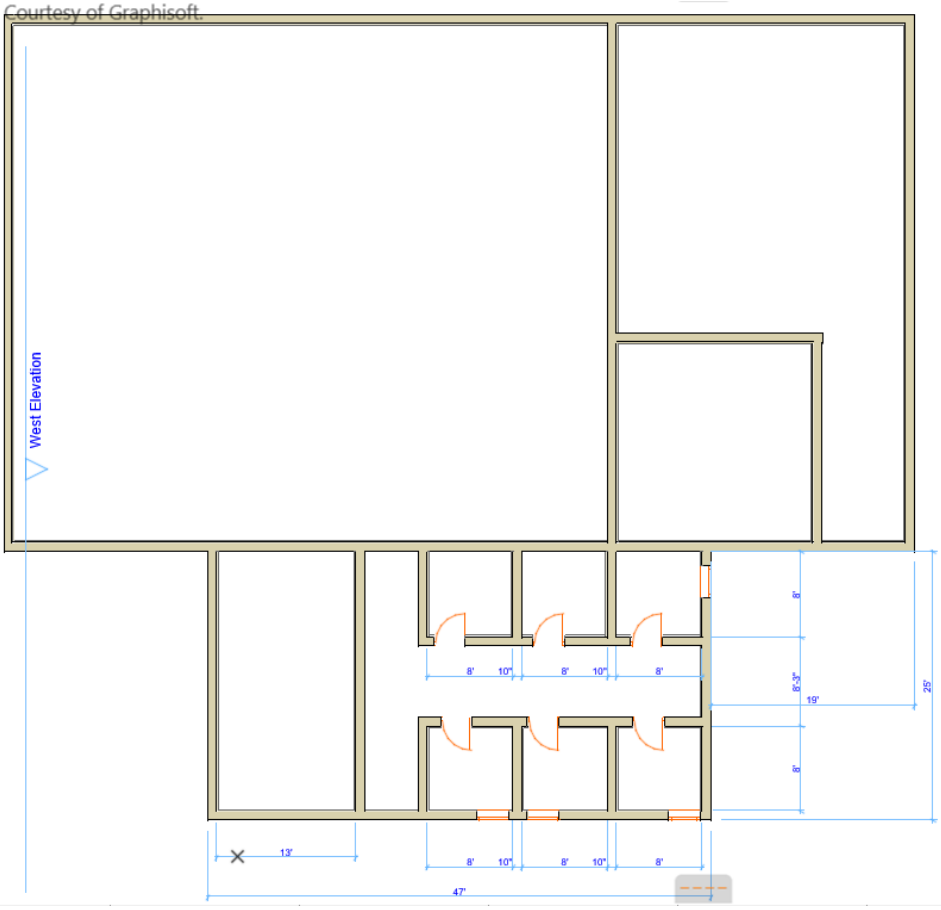
				to provide more time for the changes to be made properly.

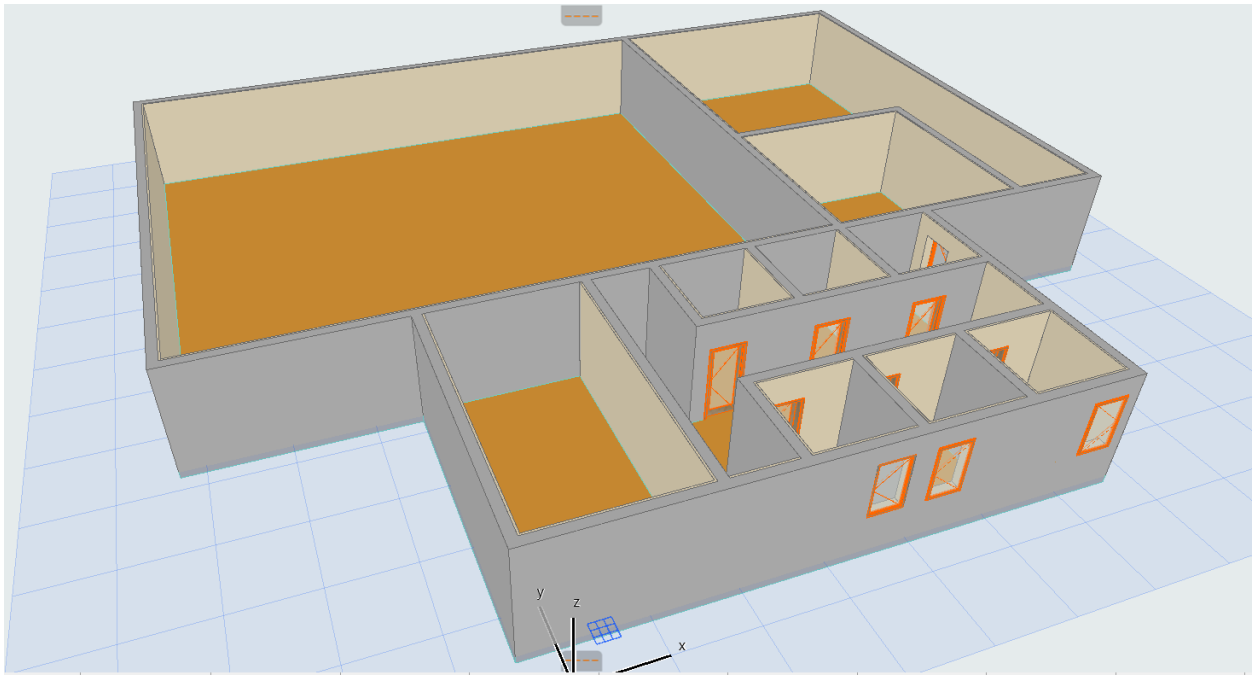
Prototype:

Desired Look:

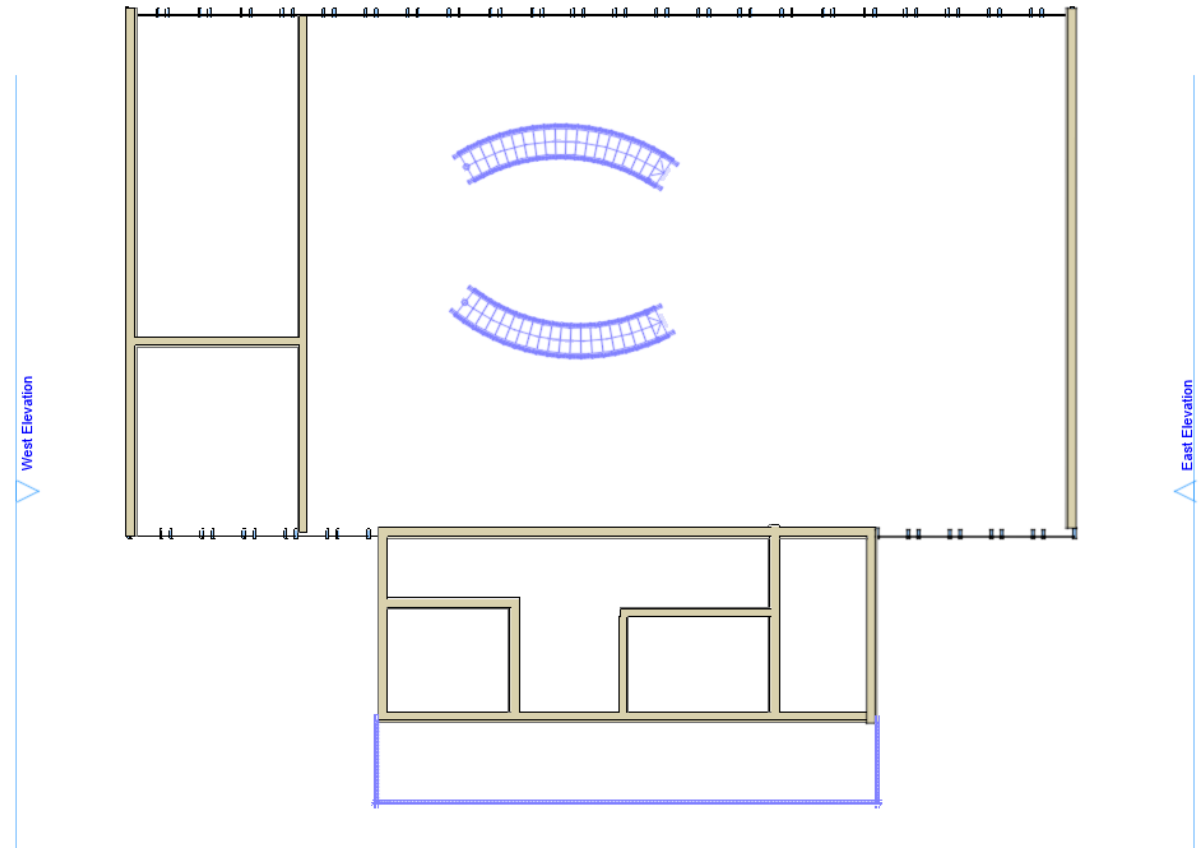


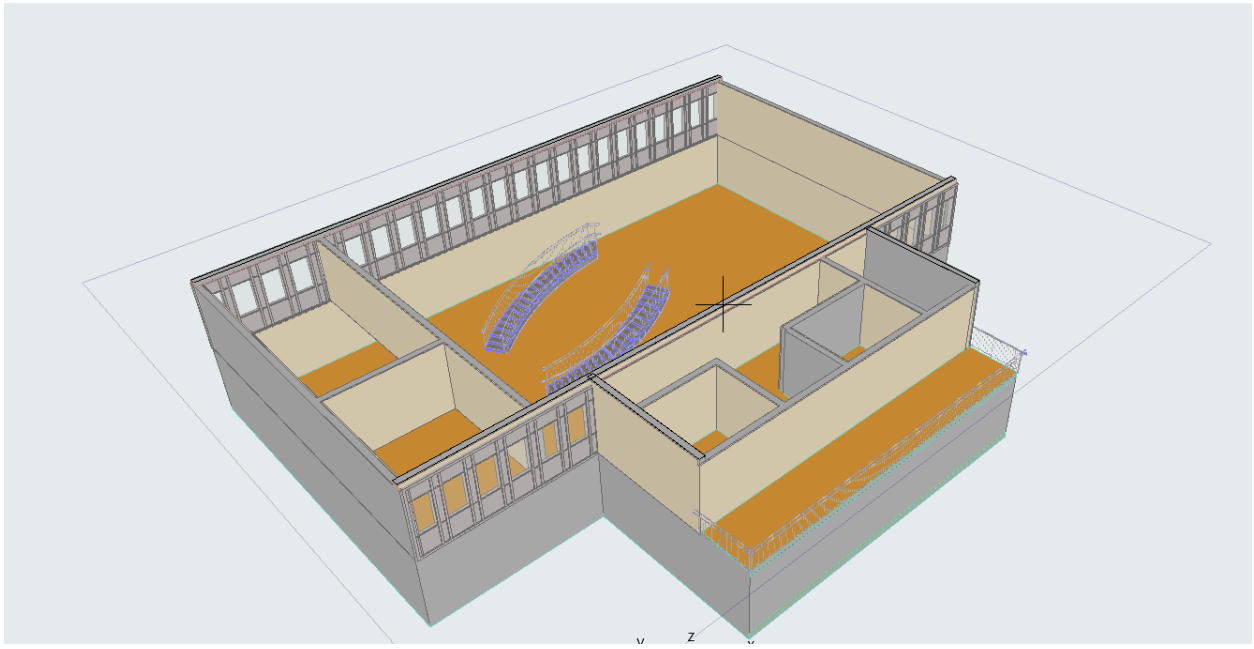
First Floor



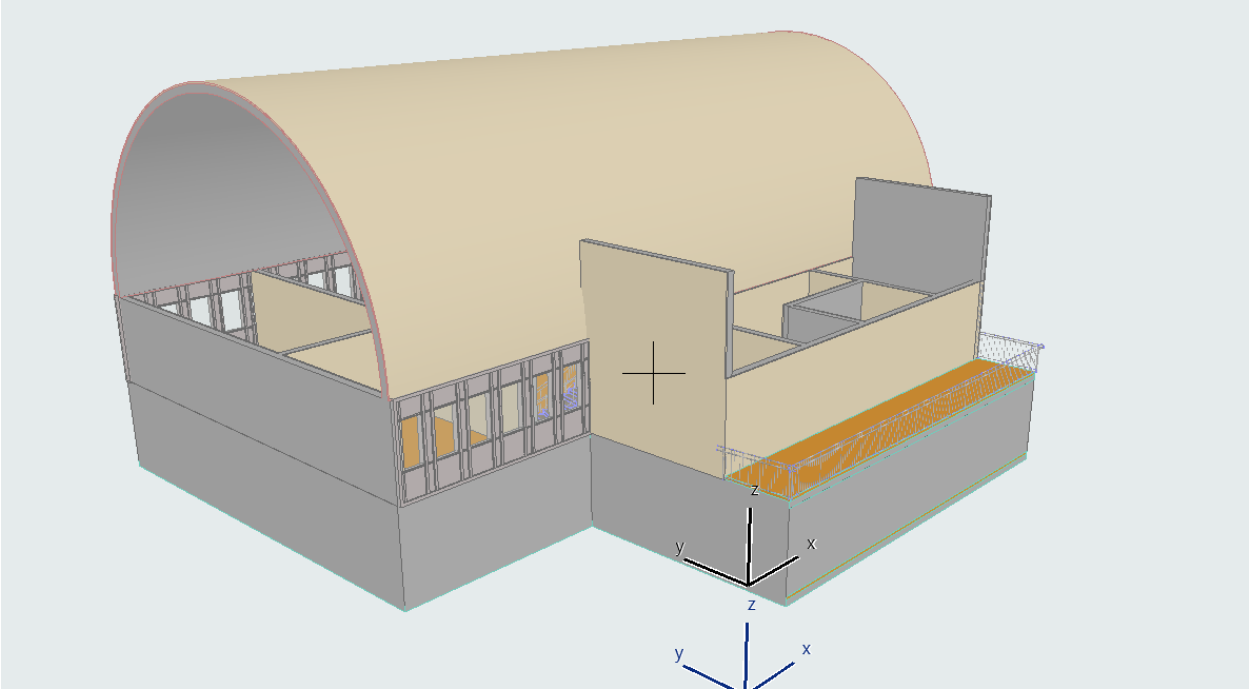


Second Floor





Full Building



Wrike SnapShot:
https://www.wrike.com/frontend/ganttchart/index.html?snapshotId=Xz5jkWrKlleKXKoKFny4TvAofKv7doK3%7CIE2DSNZVHA2DELSTGIYA