



IDEA Architectural Design Competition 2020

Whoopy Island

Introduction

The client is looking for an architectural firm to take on this job. You own and operate a small architectural firm with two other partners. All three of you have recently passed your licensure exam, and are excited to create a proposal for your firm's first potential client.

Your potential client is a couple who own a cabin on a .55 acre island in Canada- north of Emo, Ontario . It has been their summer retreat for over 30 years. The original cabin was built from local logs and was constructed in the 1920s. It was a one room cabin originally and over the past 30 years a 2 bedroom addition has been added to the back- north, a deck has been added to the front- south, and a screen room and deck has been added to the east side. Over the years, electricity has been brought to the island, water service provided by an electric pump, and an electric hot water heater in a small bath house. The original lodgepole cabin roof structure and base have deteriorated over the years and cannot be saved. As your clients are soon to retire they are hoping you can design them a 4 season vacation home that they can visit year round. Your team will use the clients sketches of the existing site and measurements for your proposal. Not all measurements are included in the sketches, your team can calculate and adjust as needed. The proposed structure on an island and should be designed to complement the current log cabin's style. The current cabin will be removed. As the cabin was built in the early 1920s and is considered rustic in style you will need to consider as you design your solution. The client who will be taking possession of the finish project upon completion has many activities that will need to be considered when creating your final design. The interior will be finished according to your clients specifications. Energy efficient design and features should be incorporated into your solution. Green technologies are desired, but must be considered into the overall project budget. All changes and modifications should be calculated into your proposed budget to be shared with judges.

The charrette is based around the client's needs, the functionality, practicality, and the aesthetics of the project, both inside and outside. The client wants the project to include spaces for work, entertaining, hobby activities, and solitude. A summary of the desired spaces are listed below:

- Living, Sleeping, and Service areas must be provided
- Use of the client's sketches and dimensions- any dimensions that are not available can be calculated or justified by your team
- Energy efficient/compliant doors and windows are required
- Electricity and water are available to be connected to.
- 2 x 6 insulated walls
- There will be no foundation as the cabin will be built upon post and piers 12" off the surface due to the island being a series of large rocks covered with vegetation. The piers must be structurally attached to the rock. - research will be required on your teams part.
- The front of the proposed cabin faces to the south.
- There is an attached screen room to the east that may be incorporated in your plan.--- see pictures.
- The floor will be 2" X 10" joists supported by your substructure.
- Exterior materials and appearance should blend into the surroundings.
- Standing seam steel roof.

Your clients have provided the following input for your design consideration:

- We will be taking down the old cabin
- Area: approx. 36 feet east/west and 40 feet north/south = maximum design envelope
- Style: Rustic, 1.5 floors
- Interior finished with pine board panels and some drywall
- Heated with one or more wood stoves and fireplaces. No AC is needed
- There needs to be a 12 inch space between the bottom of the structure and the ground so no part of the cabin is directly on the ground
- The front of the cabin faces south and should include a large freestanding deck
- The screened room or a screened gazebo should on the side deck and not necessarily attached to the cabin
- Rooms: 2 bedrooms, half bath, open floor plan kitchen, dining room, living room, and craft area. Also a loft
- Sleeping areas: one master bedroom and one guest room
- Materials: exterior half log or wavy cedar, metal roof, large windows on the south side
- Special amenities: high ceiling over living area
- Half bath should have low-flush composting toilet
- Kitchen: Side by side fridge/freezer, deep sinks, electric oven/stove with exhaust
- Loft for storage and children's play
- Electric dryer but no washing machine
- 100 degrees in the summer -40 degrees in the winter
- No need for TV
- Large furniture pieces include a 4 X 6 foot sewing table, an antique organ, table for 6-8 people
- Special information: No tape or mud for drywall because it is unheated in winter. Dog-friendly. As few exterior holes as possible so it is tight from mice, etc. No air conditioning needed. Because of the snow weight in winter no flat roofs. Ability to cover windows for winter.

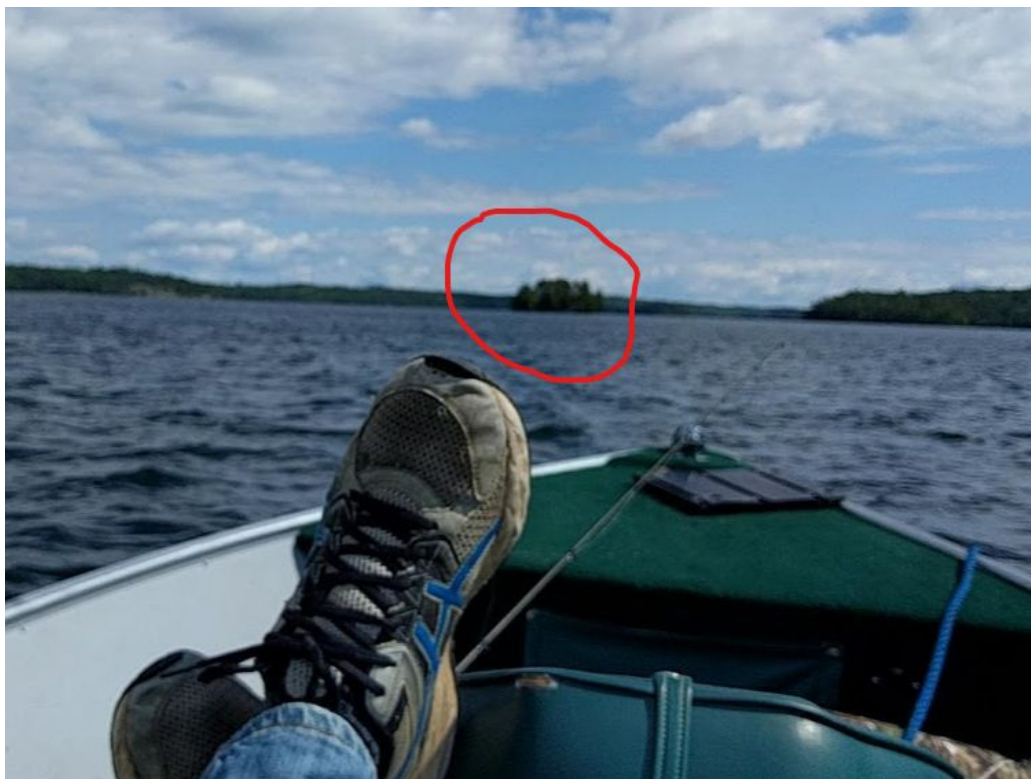
Site plan:

- See pictures below
- The site according to the picture below. Maximum maximum design envelope is 36'-0" X 40'-0" any dimensions that are not available can be calculated or justified by your team
- The site includes an island that is approximately .55 acres in size-- see pics
- Large trees are located near your proposed build site and should be taken into consideration.





Looking North as approaching Whoopy Island



Looking North as approaching Whoopy Island



Front of current cabin

Looking South from front deck of Whoopy Island cabin



Looking West from front deck of Whoopy Island cabin



Procedure

Your firm will focus on completing a presentation board and model to present and sell your firm's architectural design to the client. Upon arrival to the IDEA competition, all members of the firm should come prepared to give a presentation of their plan in front of the judges. Your firm should arrive at the competition with the presentation board and model made ahead of time. The presentation board should include the following deliverables:

- Title page
- Renderings
- Site Plan
- Exterior Elevations
- Floor Plans with dimensions
- Budget or cost analysis of project
- Any additional views, renderings, or text to communicate the design solution

A key component to a successful presentation board is to clearly illustrate the functionality and practicality of your design through your documentation and the layout.

Constraints

- The design must include the client's desired spaces listed above
- Your solution must use the existing footprint or given dimension constraints
- Your presentation board/presentation must include the elements listed above
- Your presentation board must be 28" X 40" trifolded in size, and can be landscape or portrait orientated
- The presentation of your plan can be with a multimedia tool of your choice.
- All three members from your firm must be in attendance to present your plan to the judges

Other documentation:

To be considered for an interview a resume and business card from each team member must be presented to the judges.

Judging Criteria:

Judges will rate the following criteria based off of information learned through the visuals on the presentation boards and the presentations themselves.

1. Aesthetic Quality and Clarity of Board	20%
2. Quality and Clarity of Presentation	20%
3. Functionality and Practicality of Design Solution	20%
4. Meeting of Program Deliverable Requirements	20%
5. Technical Quality of Architectural Drawings	10%
6. Use of Site	5%
7. Model	5%

Each category above will be rated on the scale above.