

Team 31



Tiz

For as long as our great people have lived, our families have gathered in the Alaskan wilderness around a great fire to tell stories of heritage and folklore. We invite you to come along and experience this journey, a grand tale from the elders. The story you are about to relive is a marvelous adventure told from the perspective of Grandpa Ace and his encounter with the greatest mythological creature, Tiz, inspired by the Alaskan folklore of Tizheruk.

**Feeding Tiz:** A time long ago, the Alaskan people lived in peace with Tiz. They brought him food offerings in return for his protection from the treacherous frost.

# STORY



## The Legend

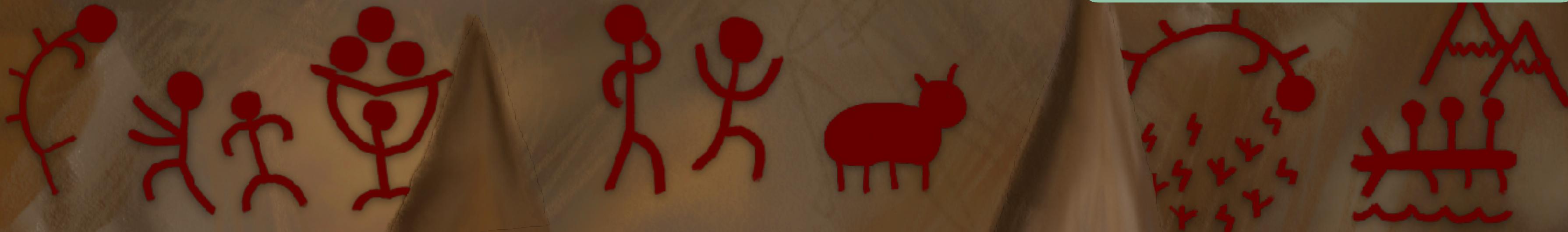
**Forgetting Tiz:** As time passed, the animals began to migrate. Soon, our people followed and forgot about Tiz.



Lantern

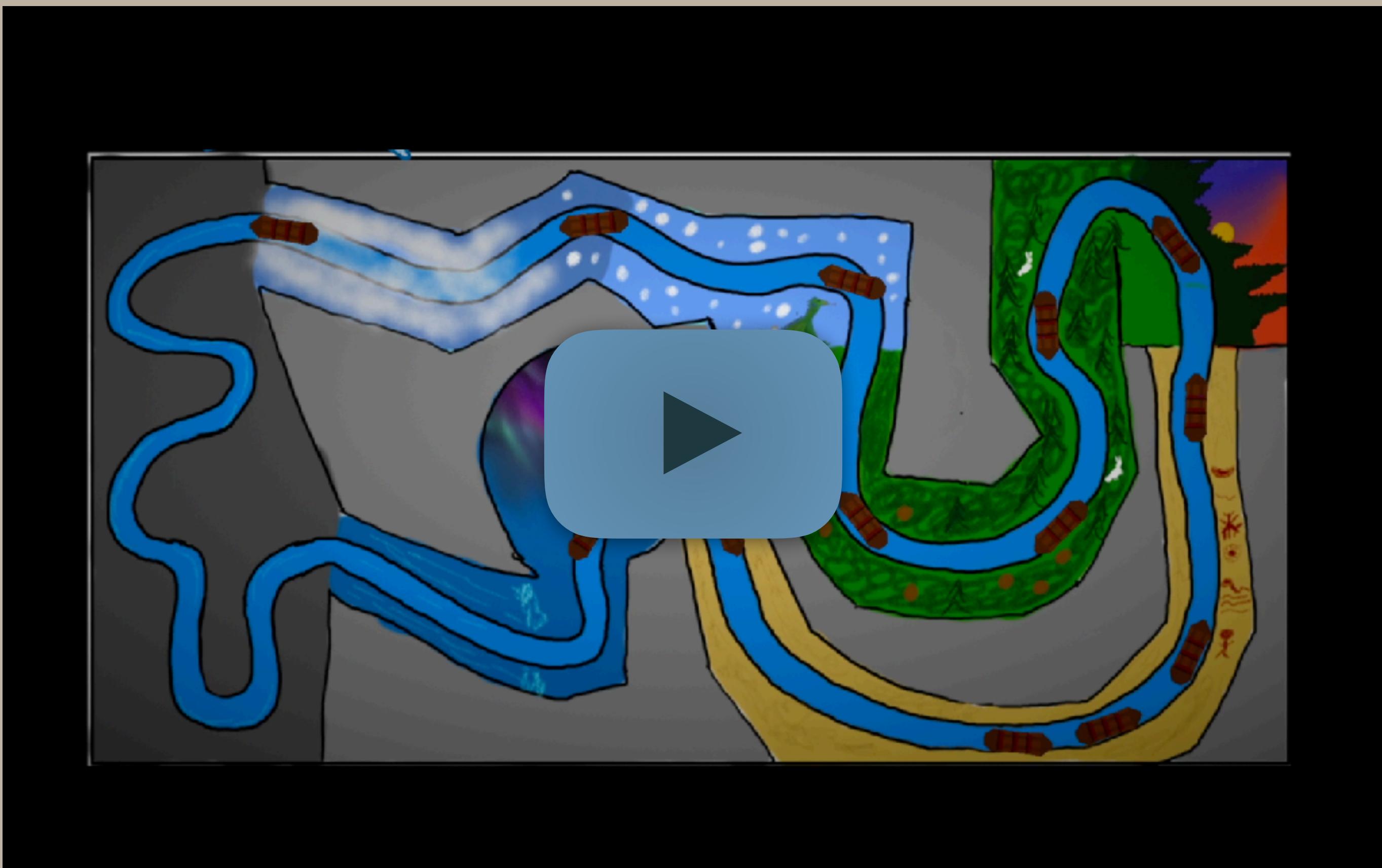
This amazing adventure is experienced from a first person point of view, where guests are given handcraft lanterns from our very own tribe. Grandpa used these very lanterns to witness Tiz on that fateful night. Similarly, guests will be able to use the lanterns throughout the ride to illuminate their way throughout the Alaskan rivers.

**Winter's Curse:** Seeking revenge, Tiz used his powers to doom the people with Winter's Curse. The animals scattered, and the totem poles fell. To escape Tiz's wrath, the people used the totem poles as boats.



Team 31

# CONCEPT



URL to Video: <https://www.youtube.com/watch?v=hA0T0ikAk9k>

# SYSTEMS

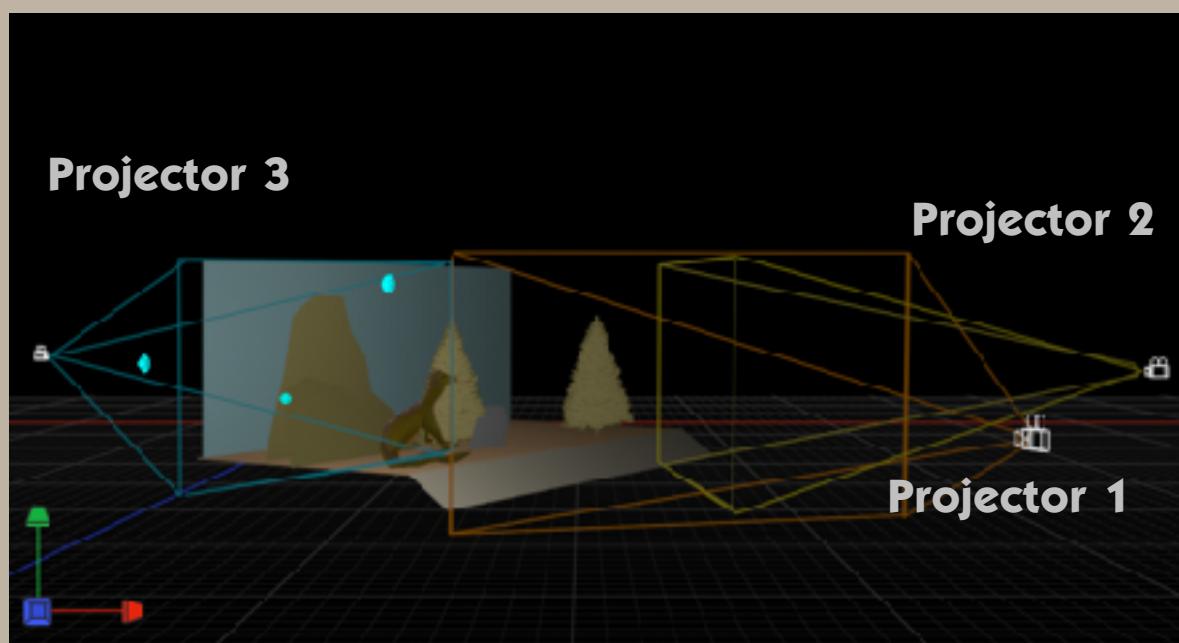
## Lantern

Attached to the sides of the canoe are six lanterns, one for each guest. These lanterns are on an turntable allowing 180 degree rotation and tilt. These lanterns will have RFID chips inside them so they can be wirelessly turned on and off through the ride. The lanterns are designed to look like a barrel.



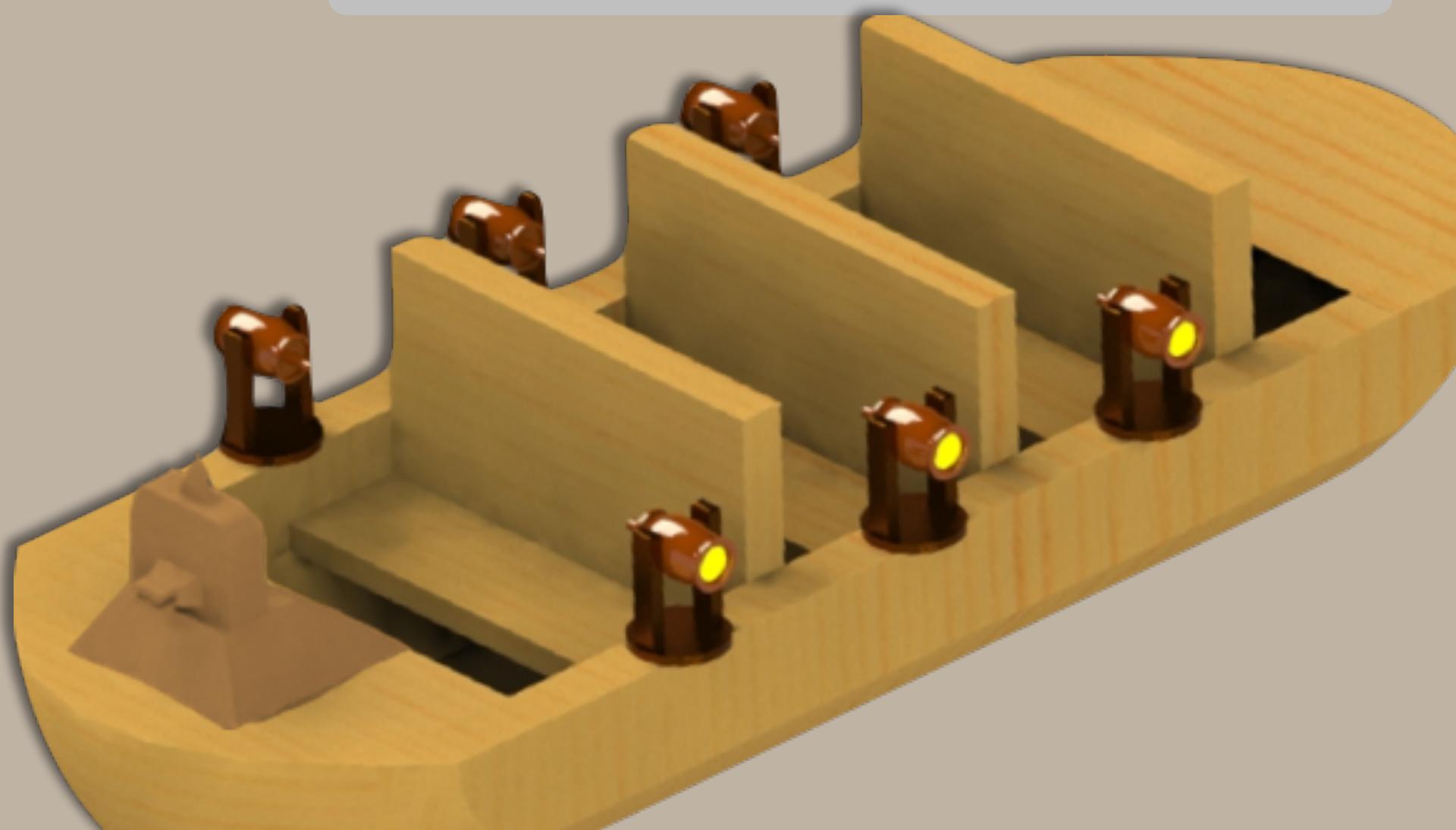
## Projection Mapping

Projection mapping will be used during the cave scene, sunset scene, the season changing scene, and the northern lights scene. The latest 4K projectors will be used to produce the maximum resolution. The setup of the projectors for the seasons changing scene is shown below



## Boats

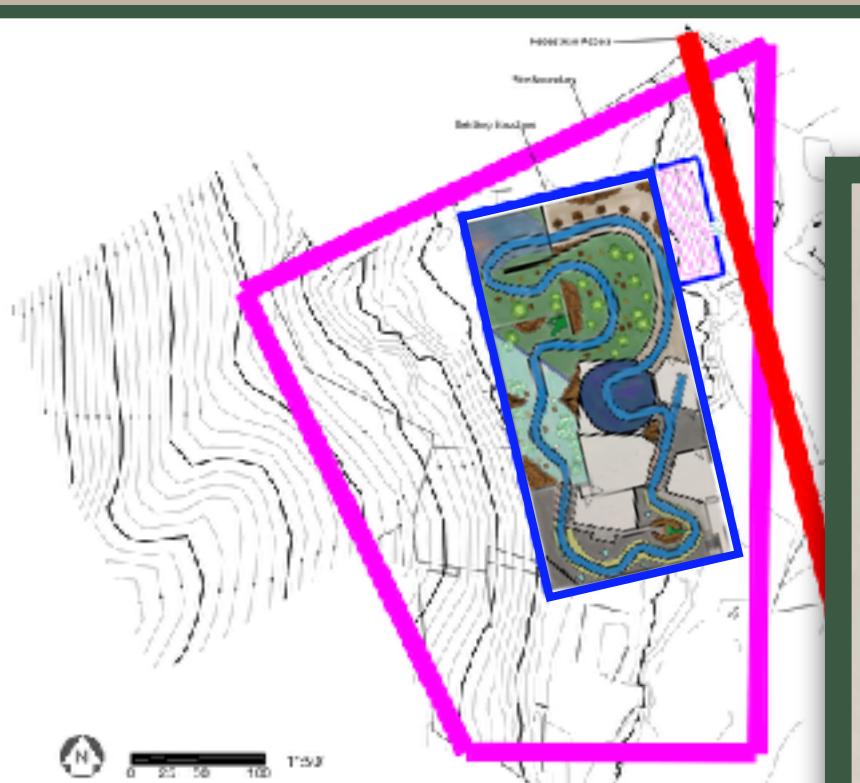
The canoes have 3 rows, accommodating 2 people each, with lanterns adjacent to each seat on the lip of the boat. Following ASTM F-24 standards, the bottom of the boat is flat, the seats have backs to them, and each seat has a safety restraint. The boat will be made out of polyethylene, because it is more fracture resistant, and themed to wooden canoe. The bottom of the boat will be made out of rubber allowing for the boat to bank the walls along the slalom track. Batteries are stored in the back of the boat, powering the lanterns and on board speakers



Team 31

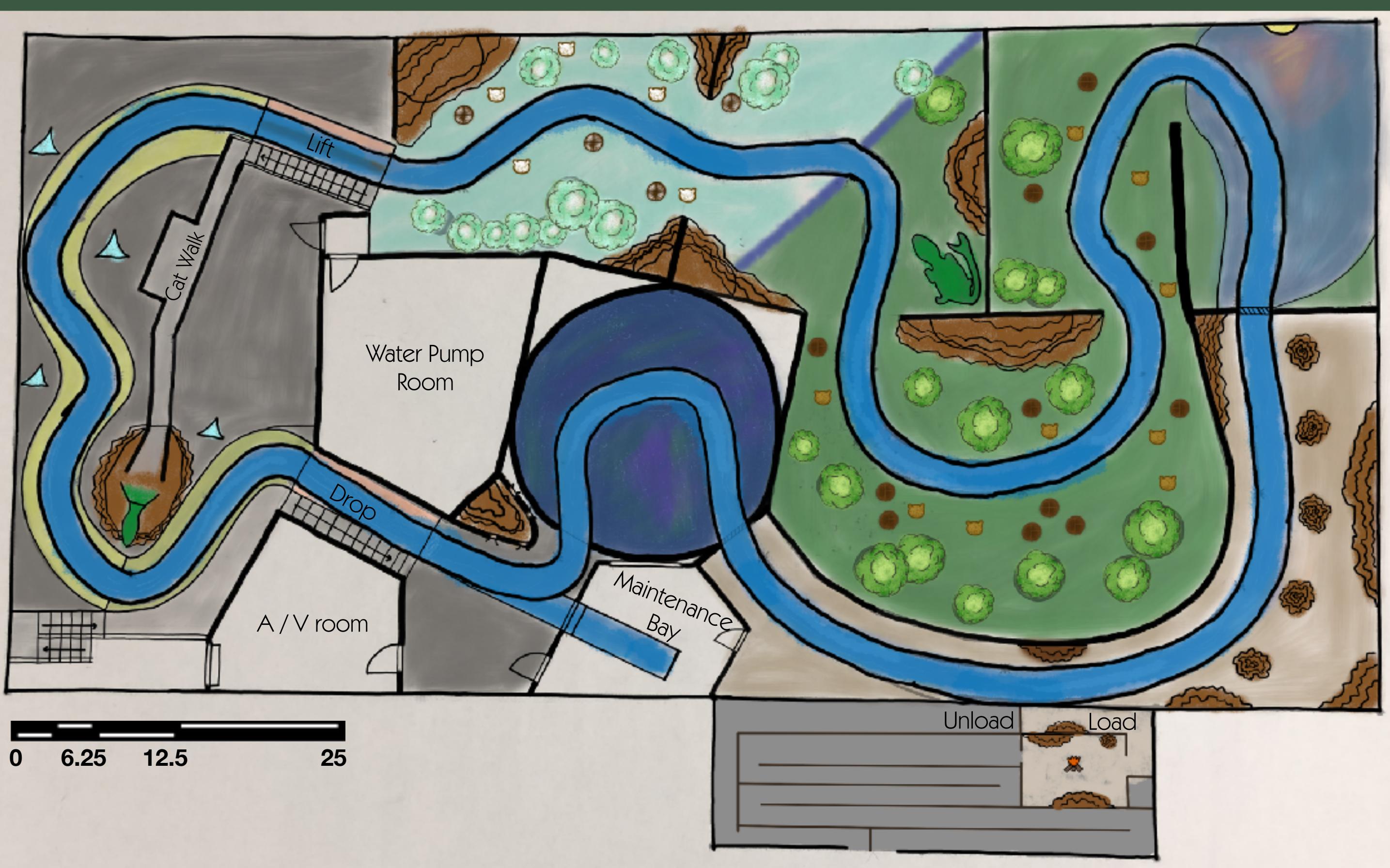


# SITE MAP



## Key

- Trees
- Stalagmites
- Tiz figure
- Totem poles
- Animals
- Rock work
- Iceberg



# Budget

Item	Description	Cost
Boats	Includes 16 boats, 96 lanterns, and on board batteries and speakers	\$1,830,000
Water Systems	Accounts for water pumps, the slalom track, traditional boat trough track	\$5,900,000
Themed Infrastructure	Includes rock work, structure, and internal walls and themed painting	\$2,560,000
Audio/Visual Systems	6 4K projectors, lighting and audio equipment for each scene, and show controllers contracted by Alcorn McBride	\$1,930,000
Theming and Props	Animal figures, 50 trees, 12 basic animatronics, and costumes	\$2,230,000

\*See attached PDF for more detailed budget



## WOW Budget

**Projection dome:** Enhance the northern lights scene with an IMAX style dome and 10 projectors, allowing the guests to be fully immersed in the Aurora Borealis

**Light sensors and Animal animatronics:** Light sensors will be placed throughout the forest scene allowing more interactive elements when guests shine their lanterns on figures in the scene. When light sensors are activated, the figures will animate

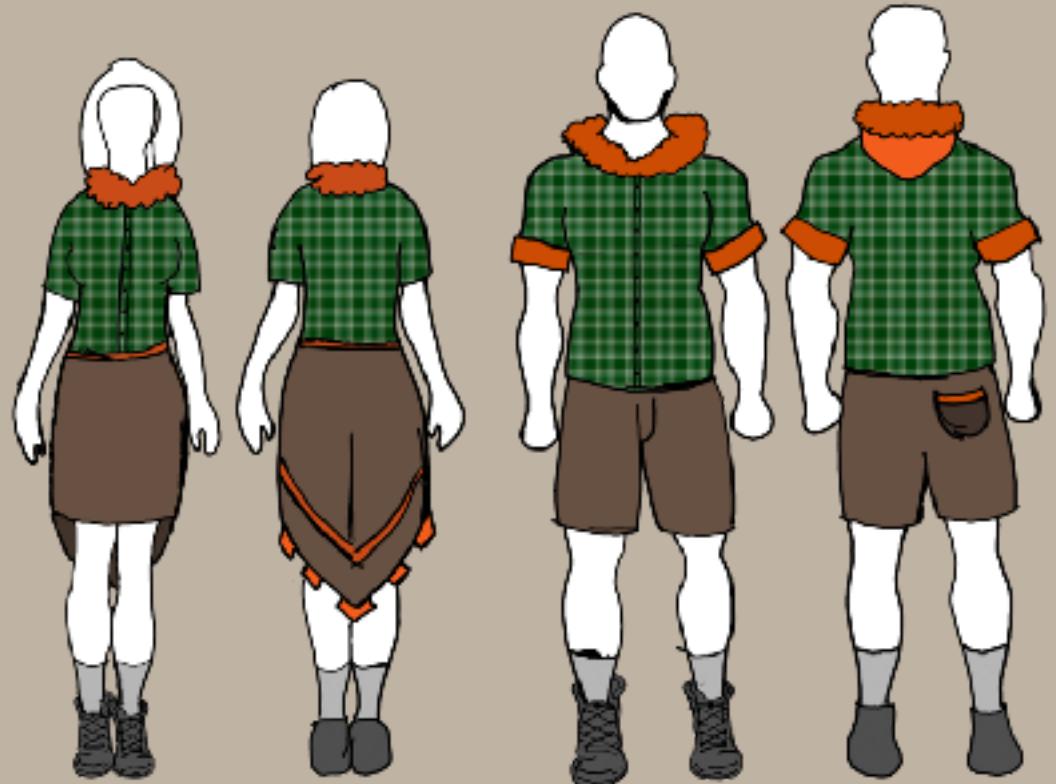
**Tiz animatronic:** An enhanced animatronic of Tiz would be placed in the seasons changing scene. This will allow him to be more life-like.

**Total:** \$14,450,000

**WOW Budget:** \$4,500,000

# MISCELLANEOUS

## Ride Operator Costumes



## Ride operator positions

**Grouper:** Stands at the end of the queue, directing guests to the rows they will be sitting in

**Load:** Assists guests in to the ride vehicle and checks to ensure safety restraints are locked

**Unload:** Assists guests out of ride vehicle

**Control Panel:** Watches cameras and ride sensors

### Capacity

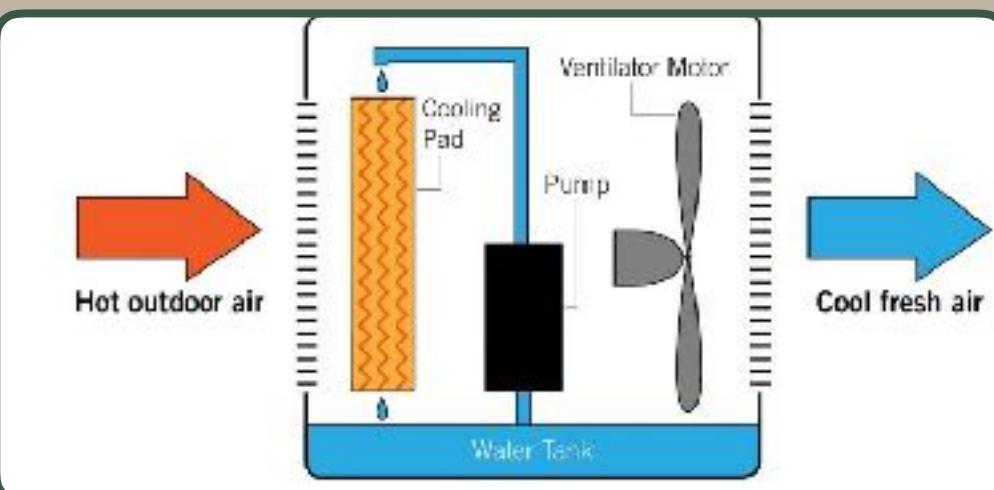
Boats: 14 boats  
1,260 riders per hour  
Ride time: 4 minute ride  
dispatch time: 25 seconds  
dispatch 132 times per hour



Concept art of load station

### Environmental Factor

This attraction will utilize rooftop solar panels for partial energy consumption. For sustainability, we will be using evaporative cooling system at the top of the lift hill to cool the slalom room. Boxes will collect water from the attraction, cooling the air as it pushes through the building. Also, the rubber at the bottoms of the boats will be made out of recycled tires



Evaporative Cooling System

# SOURCES

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