







### U.S. Forest Service

M/V *Chugach* and the Forest Service Ranger Boats Book 1: Conceptual Design Plan—Design 5/23/2022

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## Notes

Conceptual design is a framework for establishing the underlying idea behind a design and a plan for how it will be expressed functionally and visually.

### **DESIGN CHALLENGES**

- Relationships and Materials
  - Where the boat is placed in relationship to the existing boat display, the Nolan Center shed, and the needs of the ramp
  - defined by the physical parameters
    - Materials to use for the enclosure of the Pavilion

### DESIGN

- o Meet or harken to existing details of the area
- Longevity
- o Ramp layout exceeds ADA guidelines

### INTENT

o To provide a fundable structure to protect and honor the history and interpretation of the M/V Chugach.

### **FUNCTION**

- o To protect the boat during the summer months.
- o To protect the boat from the elements in the winter.
- o Provide some measure of security

### **MATERIALS**

- o Exterior grade lumber
- o Skid resistant application to ramps and stairs
- o Windows on roof will be Velux Brand or better (not shown)
- o Roof material can be typical roofing tiles, standing seam or corrugated

This document is a conceptual design of the form and function of the pavilion for the M/V Chugach and its visitors. From this point, development and construction documents can be completed to bring the honoring of the M/V Chugach to fruition.

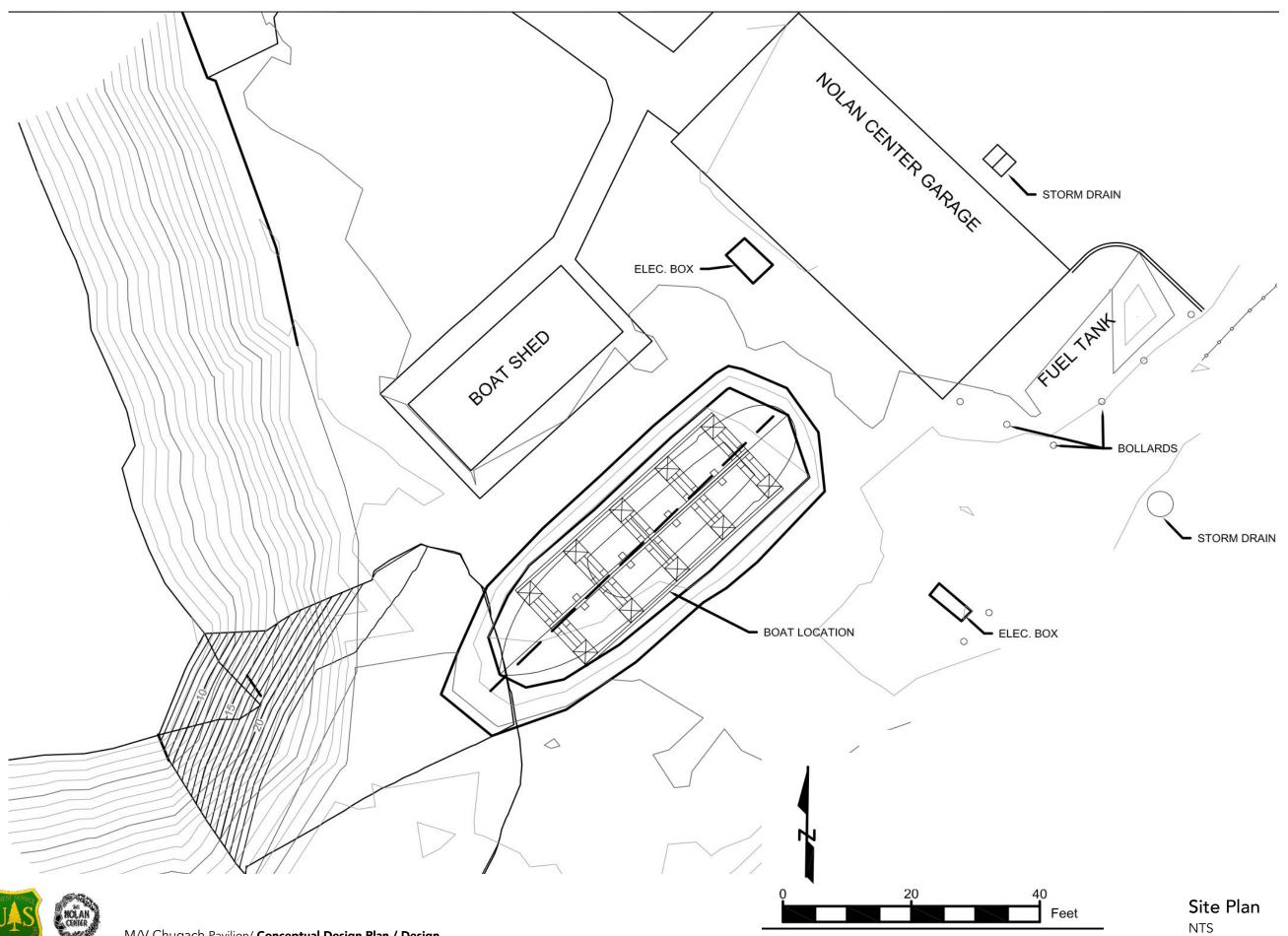








M/V Chugach Pavilion/ Conceptual Design Plan / Design

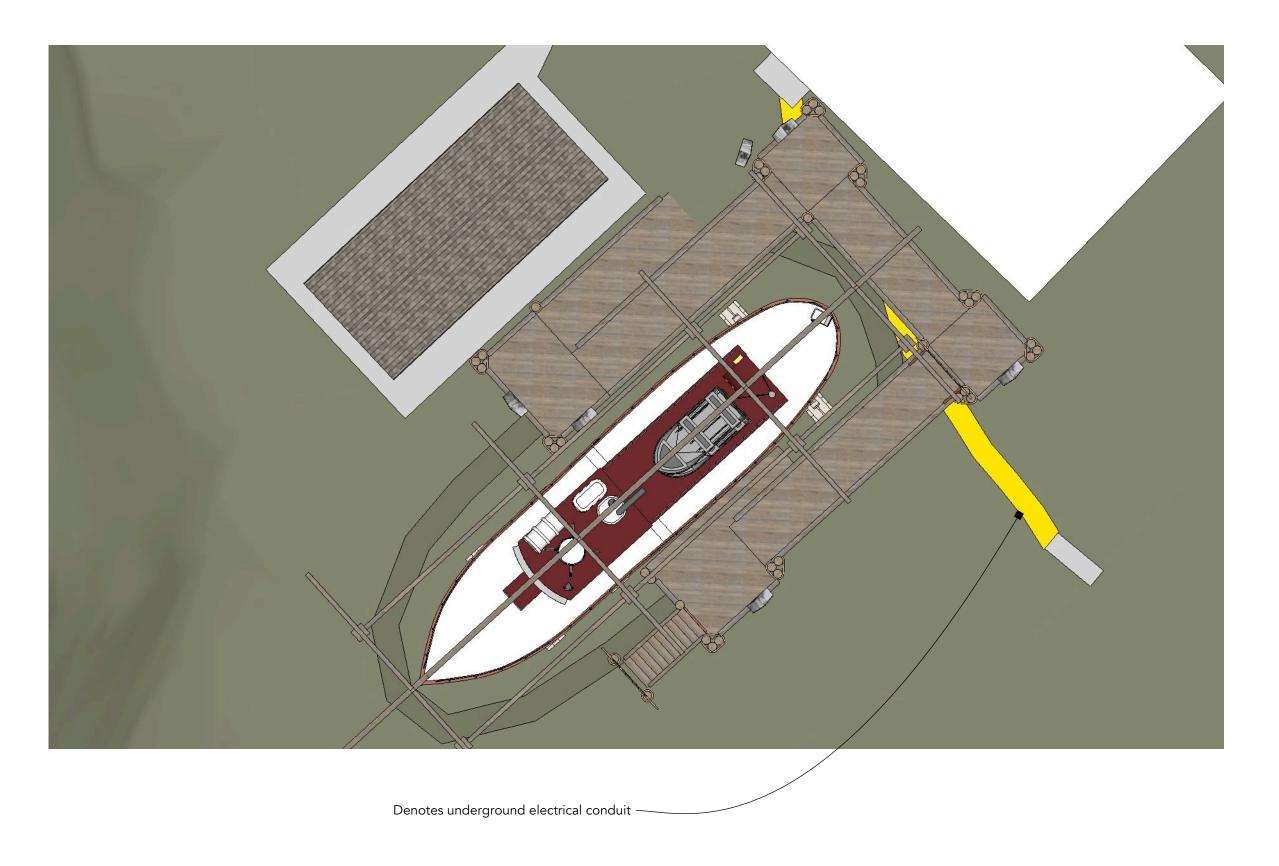














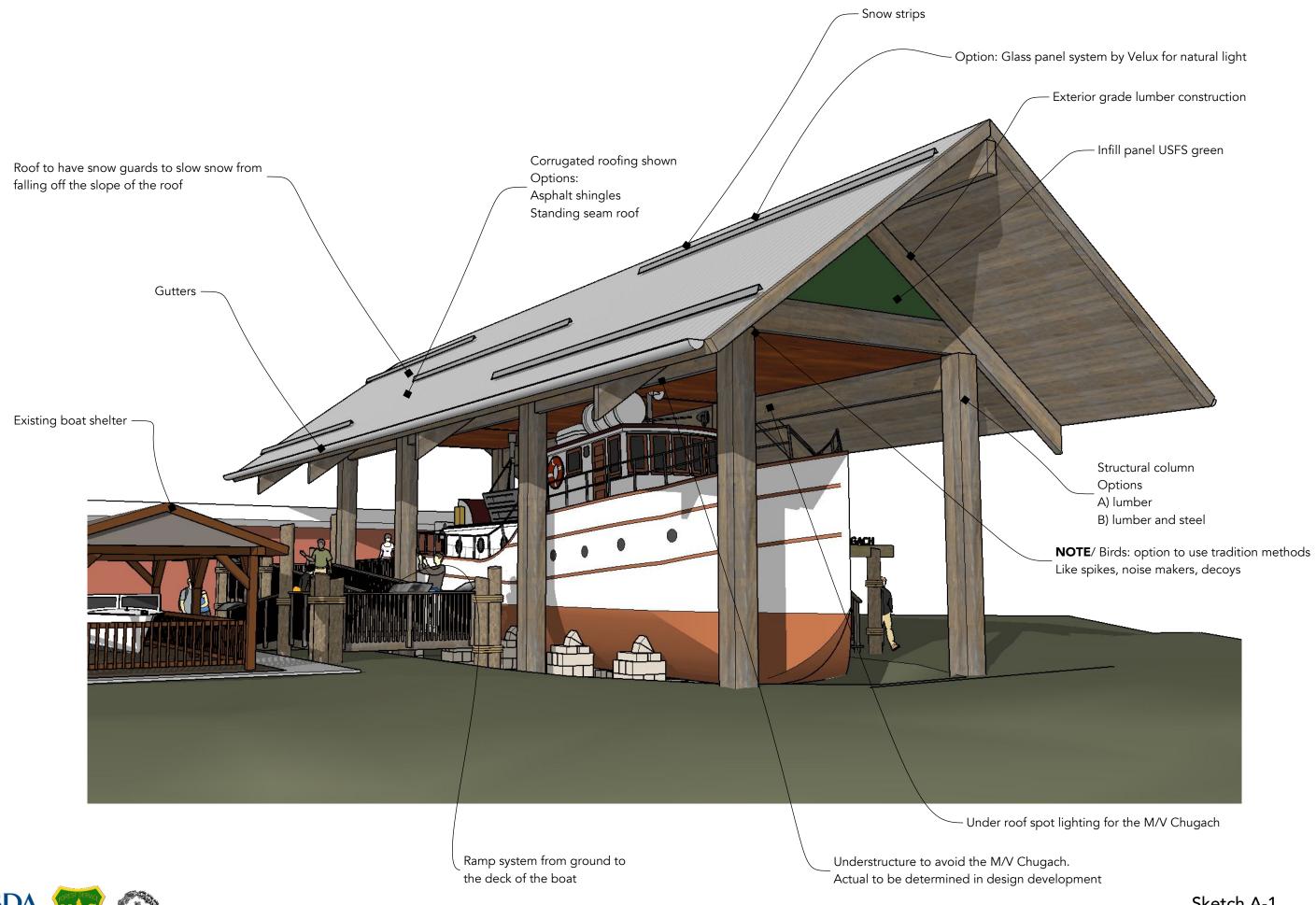








Site Plan 1/16′=1′0″

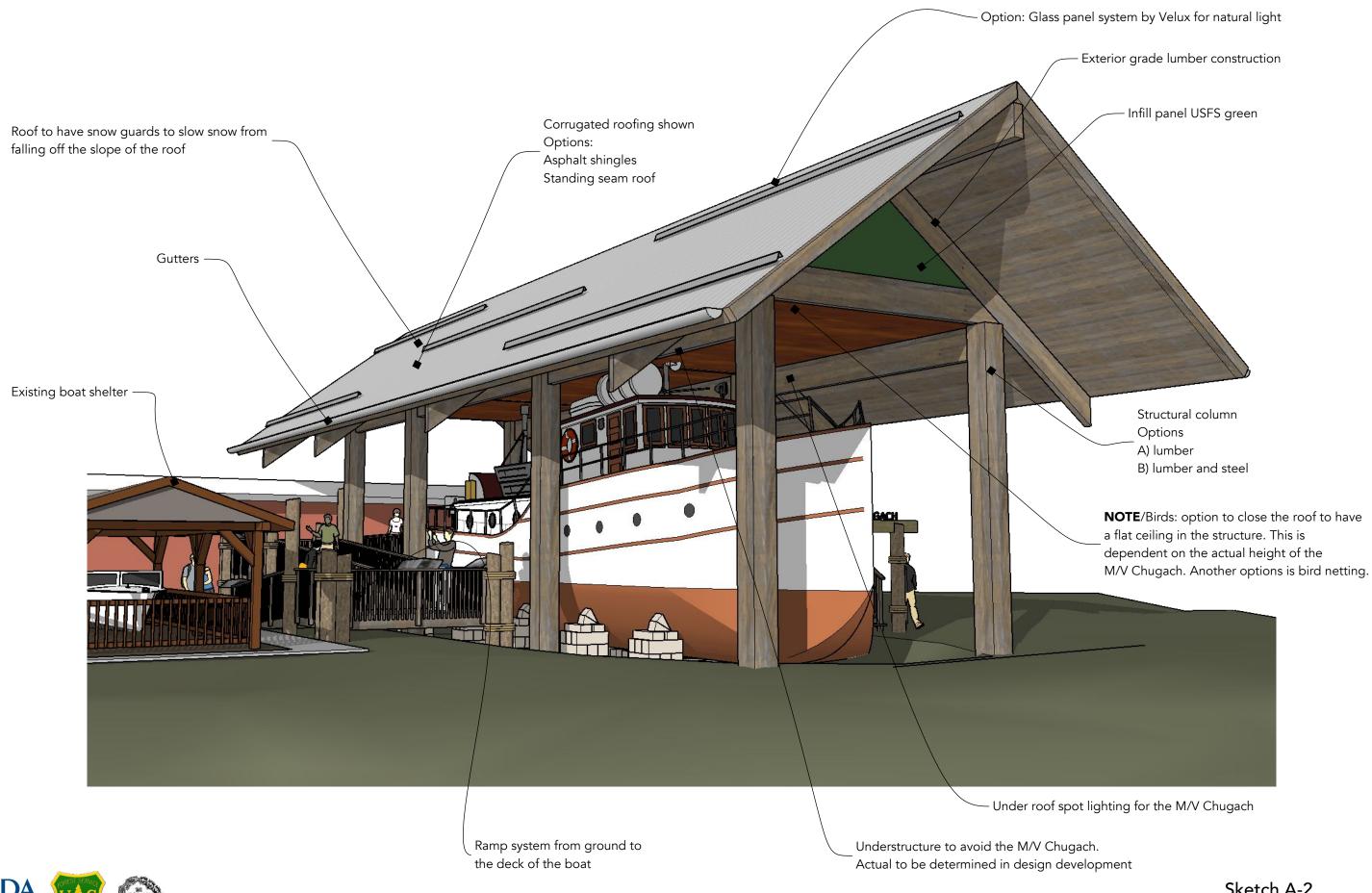










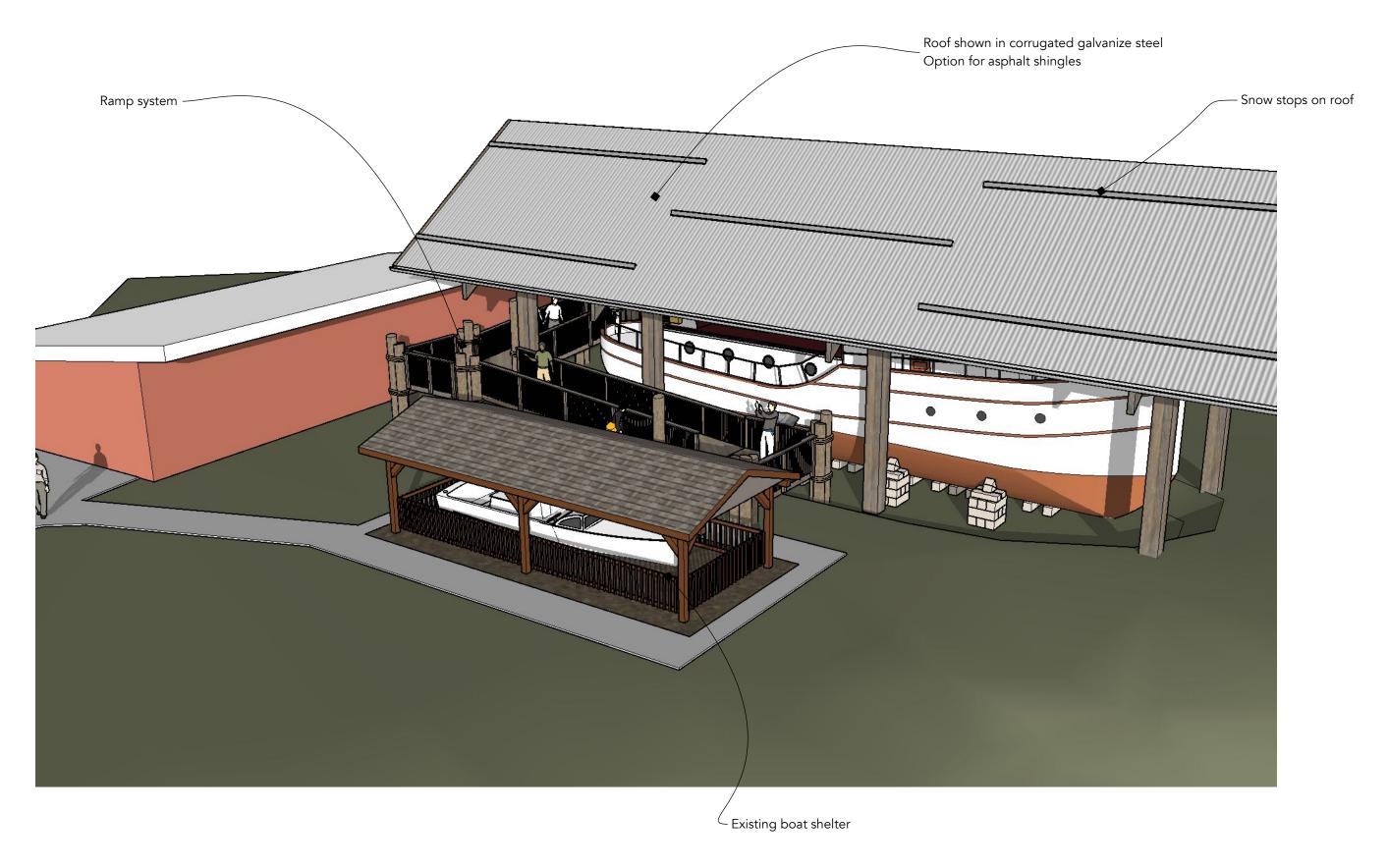


















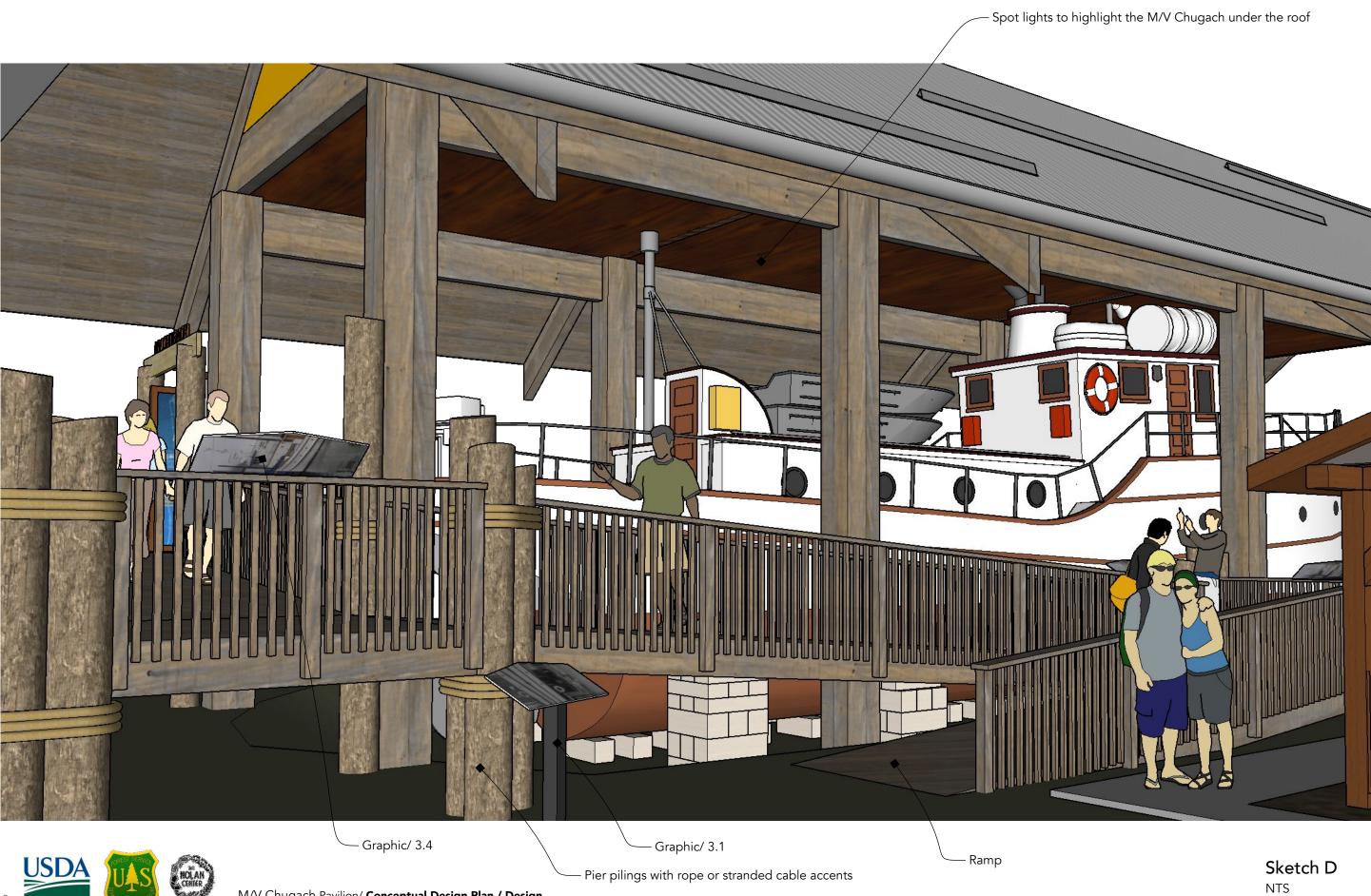




































































M/V Chugach Pavilion/ Conceptual Design Plan / Design

- Security gate with graphic infill

Platform to access the boat —

Sketch I NTS

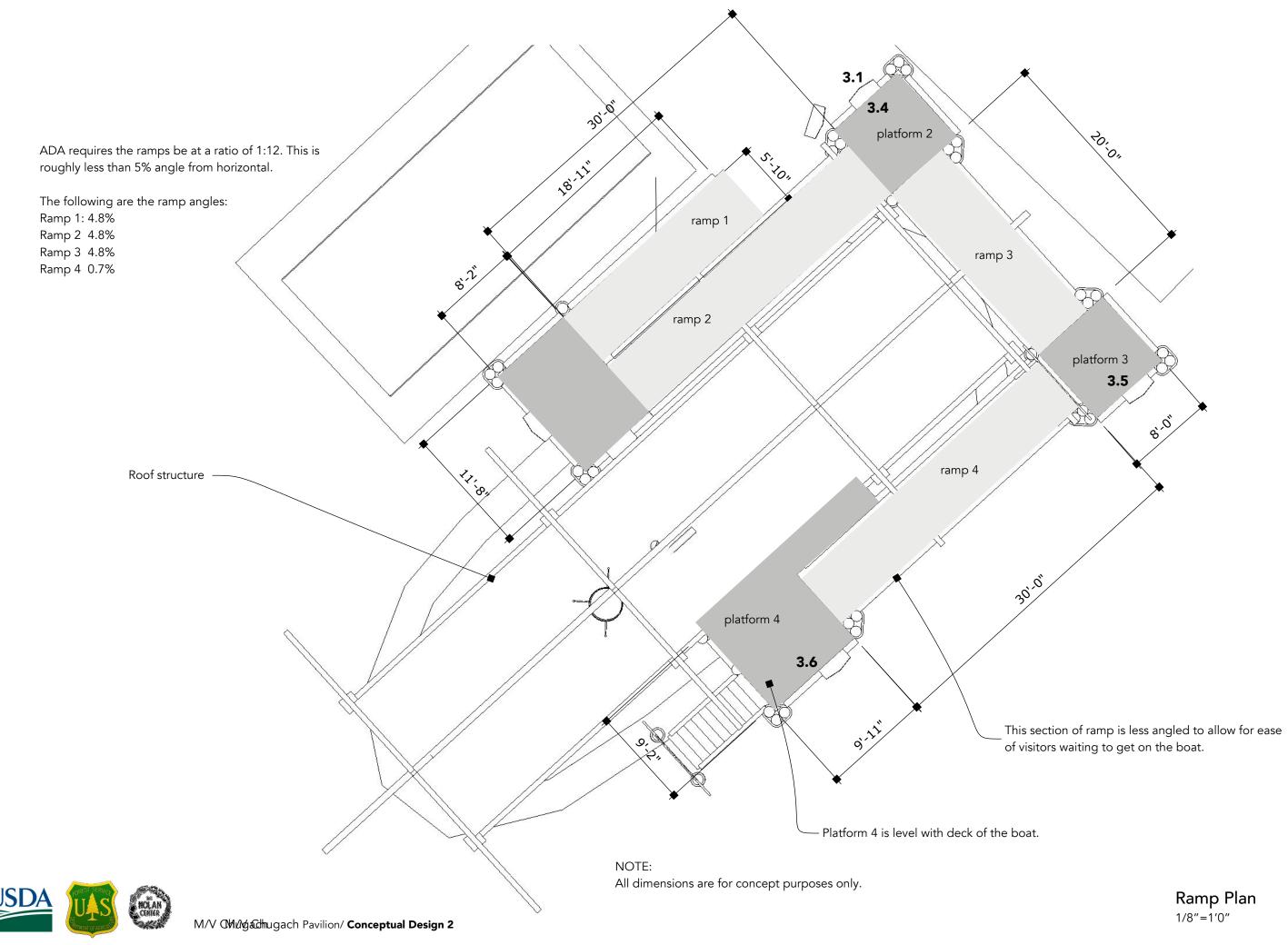


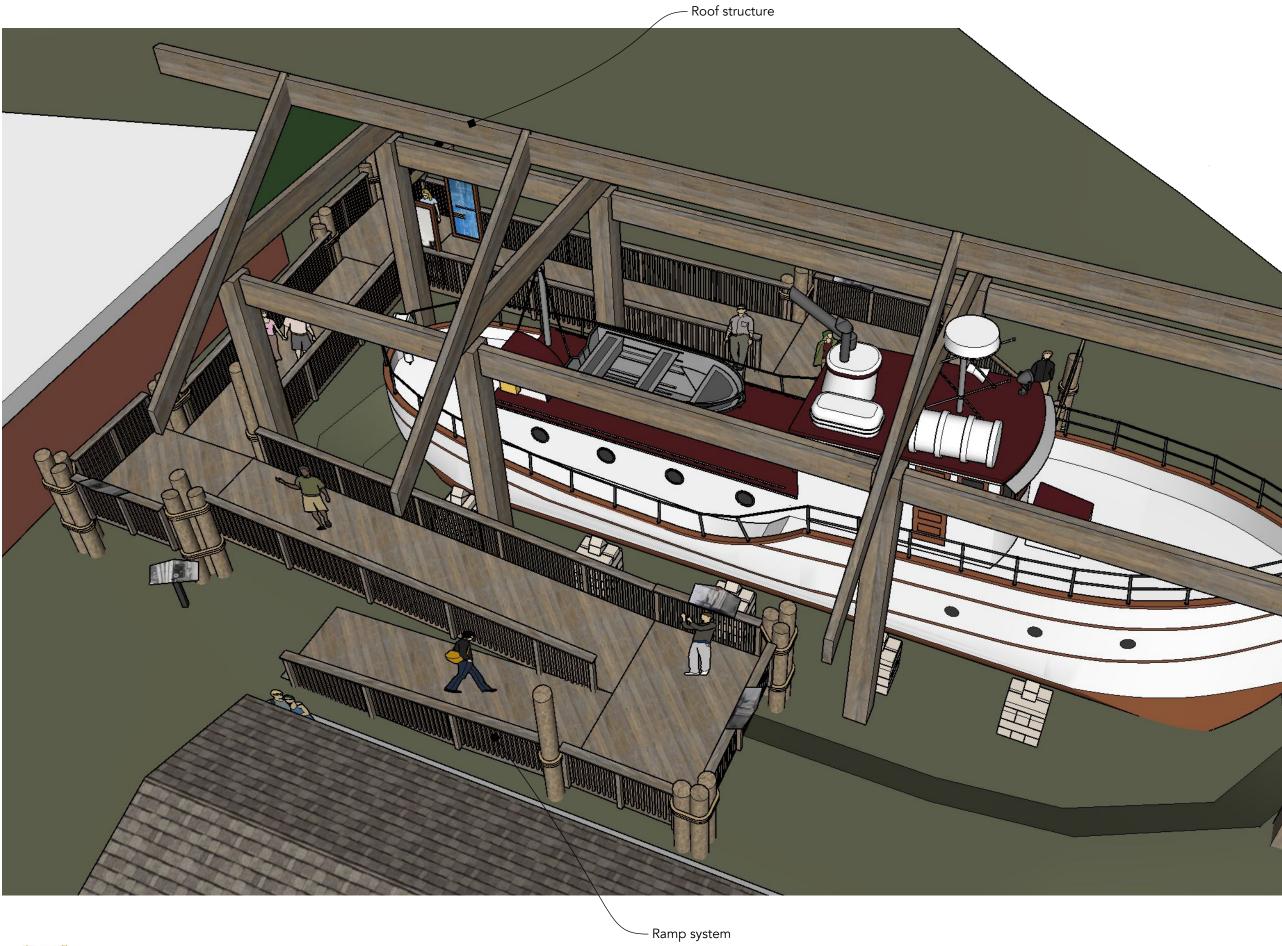










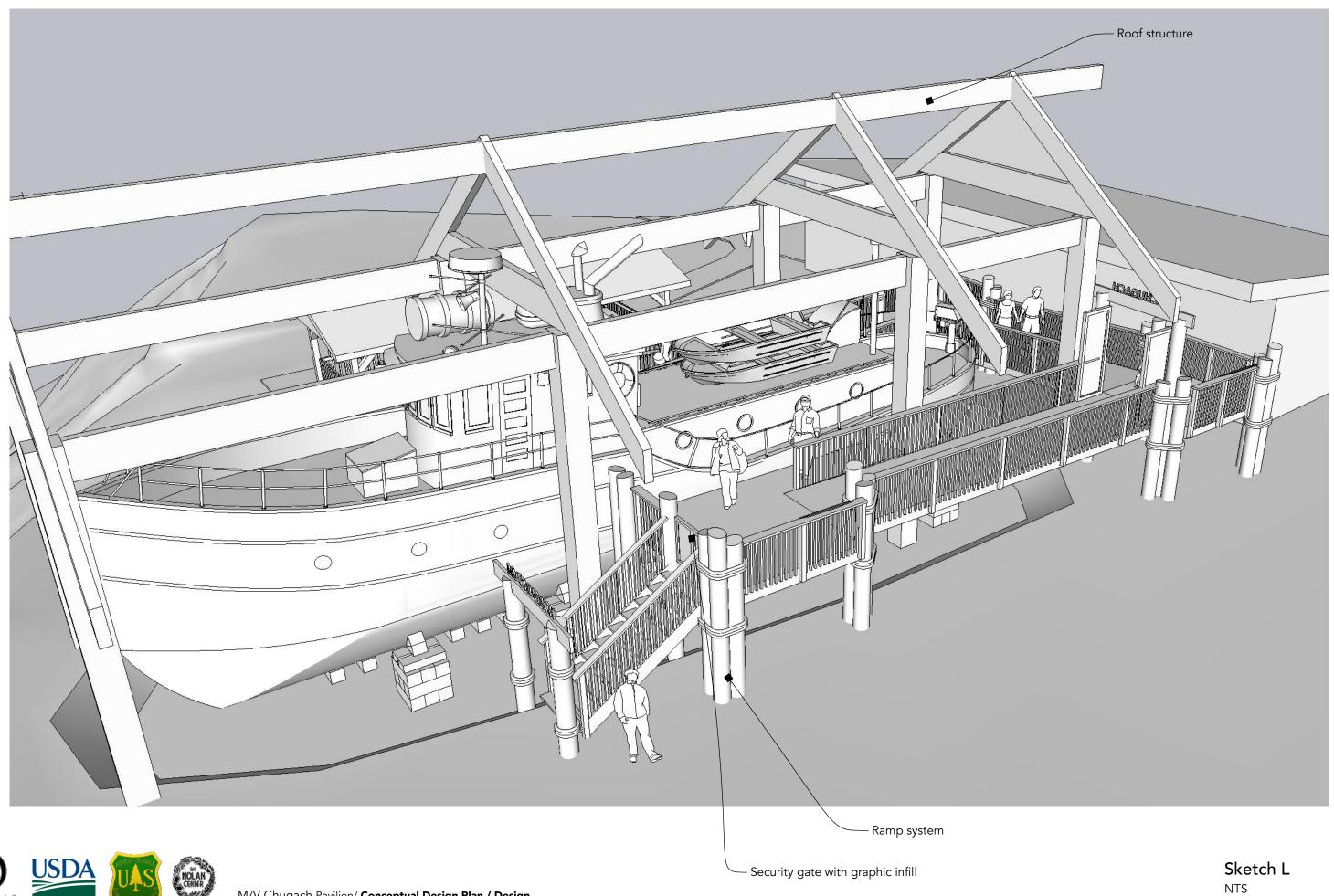


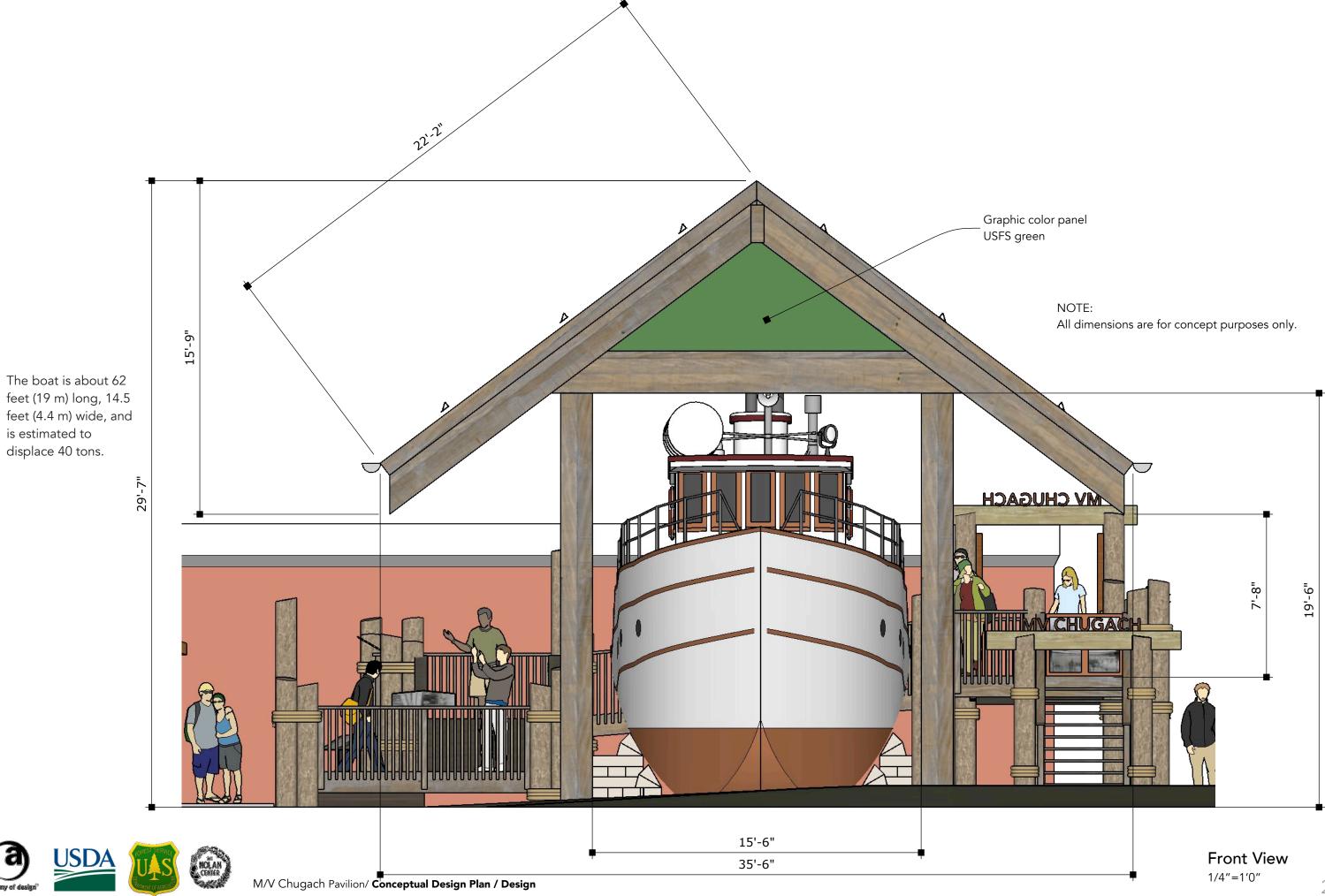


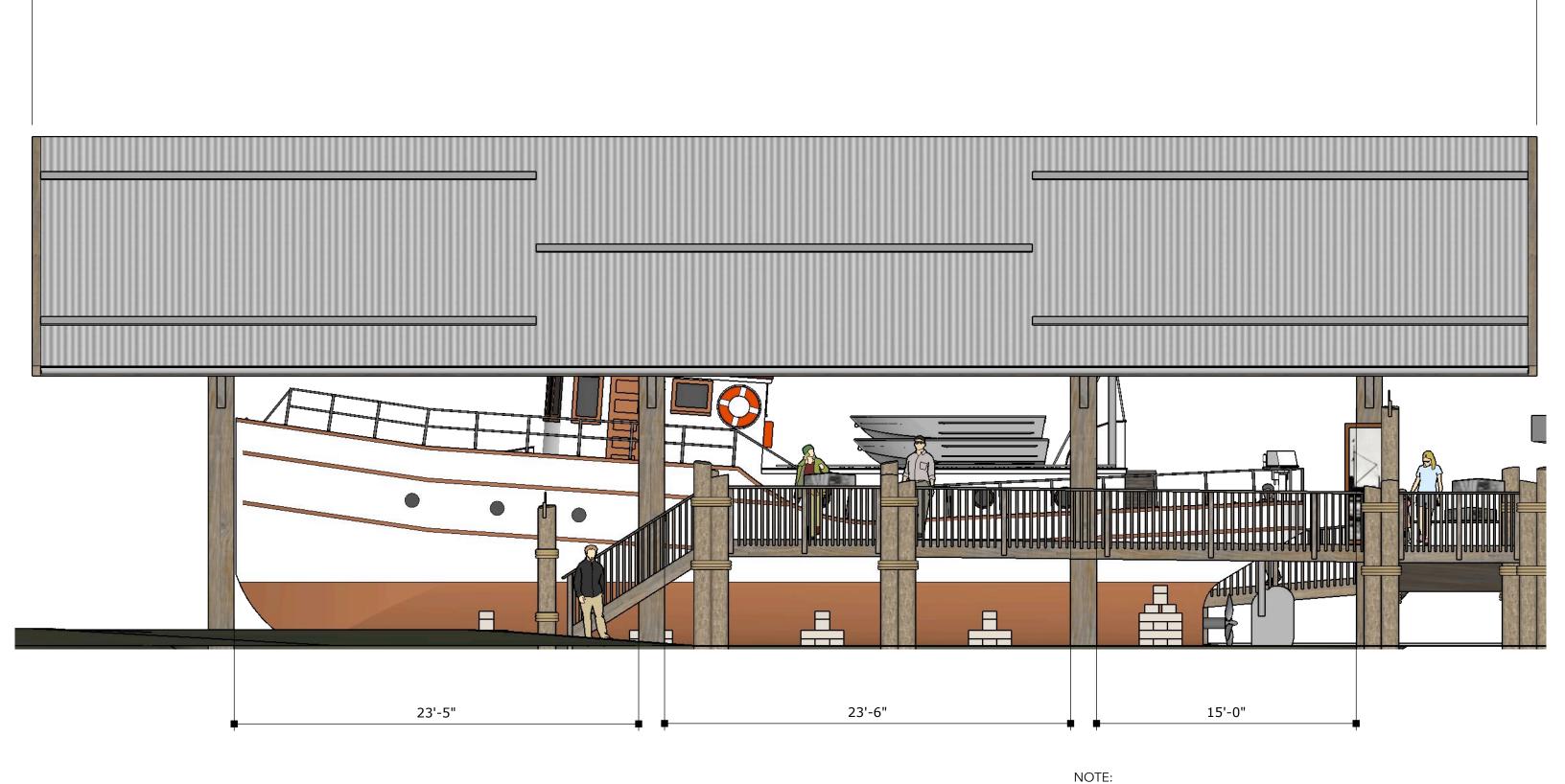












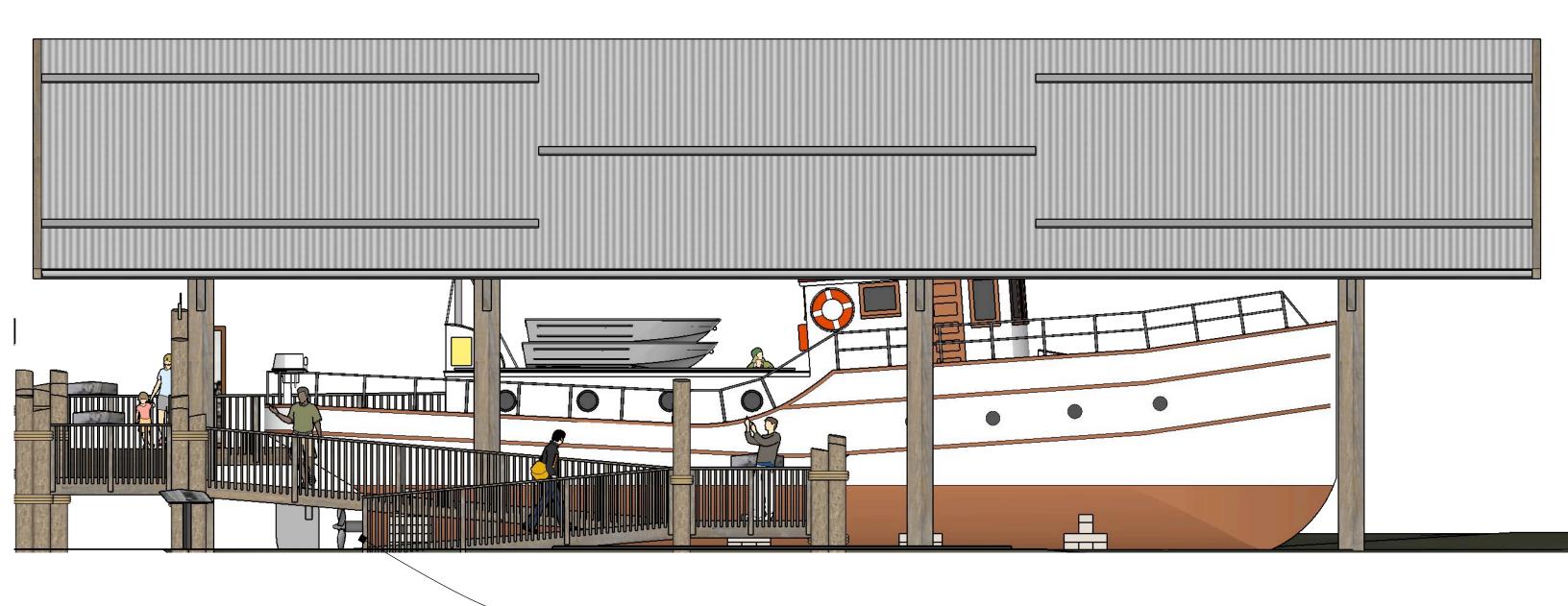








All dimensions are for concept purposes only.



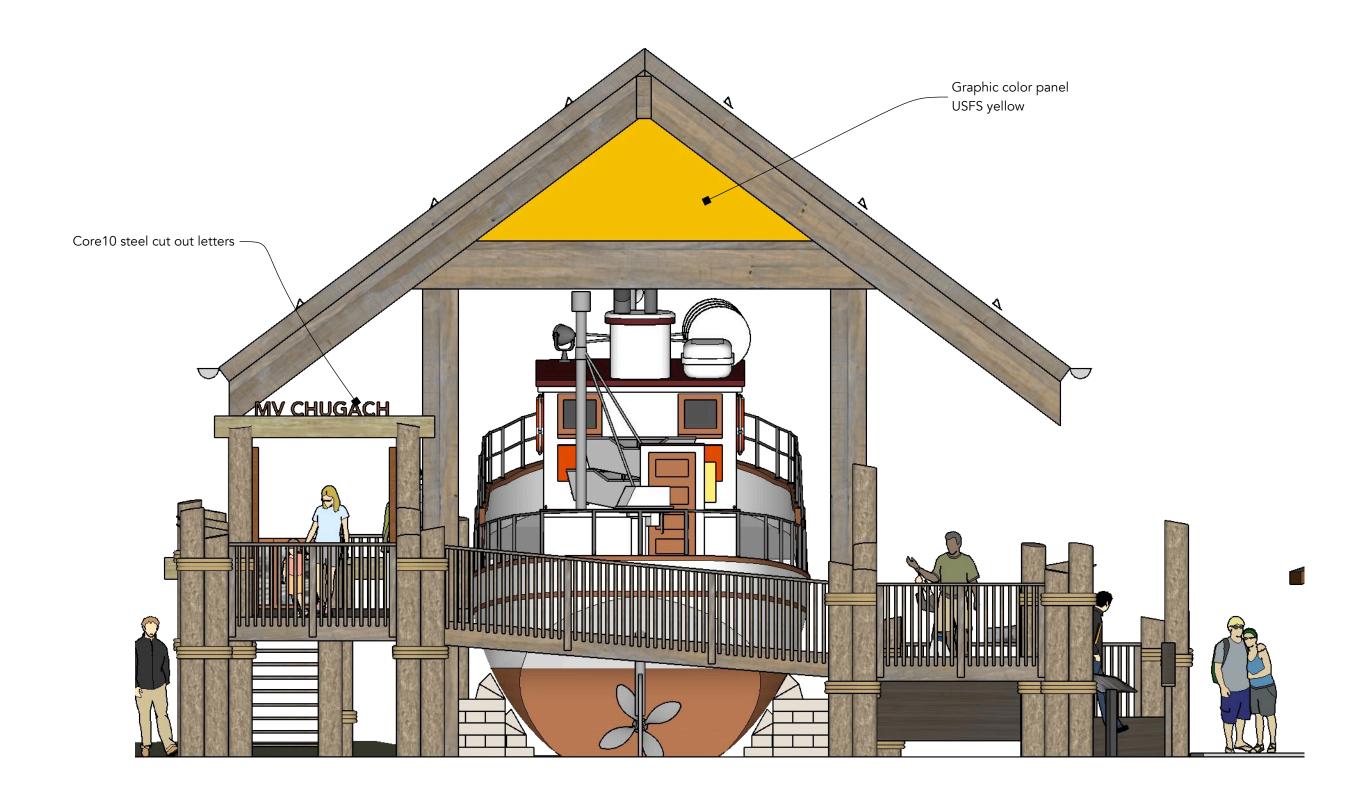








- Ramp system









# Notes

### Conceptual design options for closure of the Pavilion

We spoke with architects, engineers and manufacturers in Alaska, Hawaii, California, Oregon, Washington, and North Carolina. Extensive research for each option for was done through existing manufacturers.

Shown are several options that solve some of the issues, but one only is a course that we recommend taking.

While the original idea of a graphic enclosure (**option A**) presented a wonderful graphic opportunity, manufacturers we spoke with did not recommend it for use in Wrangell, AK. We have shown it for continuity and documentation.

The second option (**option B**) is viable though a bit robust for its application. A standard roll-up door is used on all sides of the structure. While this provides security and weather protection, it doesn't provide any measure of interpretation nor view of the artifact when the pavilion is closed.

**Option C** is an enclosure concept that is similar to bifold doors. This provides a good security choice but is a total custom solution.

**Option D** is our choice that solves many issues with protecting the boat while remaining available for viewing when it is closed. There is the option of having the short side doors open like a garage door. This idea was met with positive responses when checking feasibility with Jeld-Wen Doors and Windows.

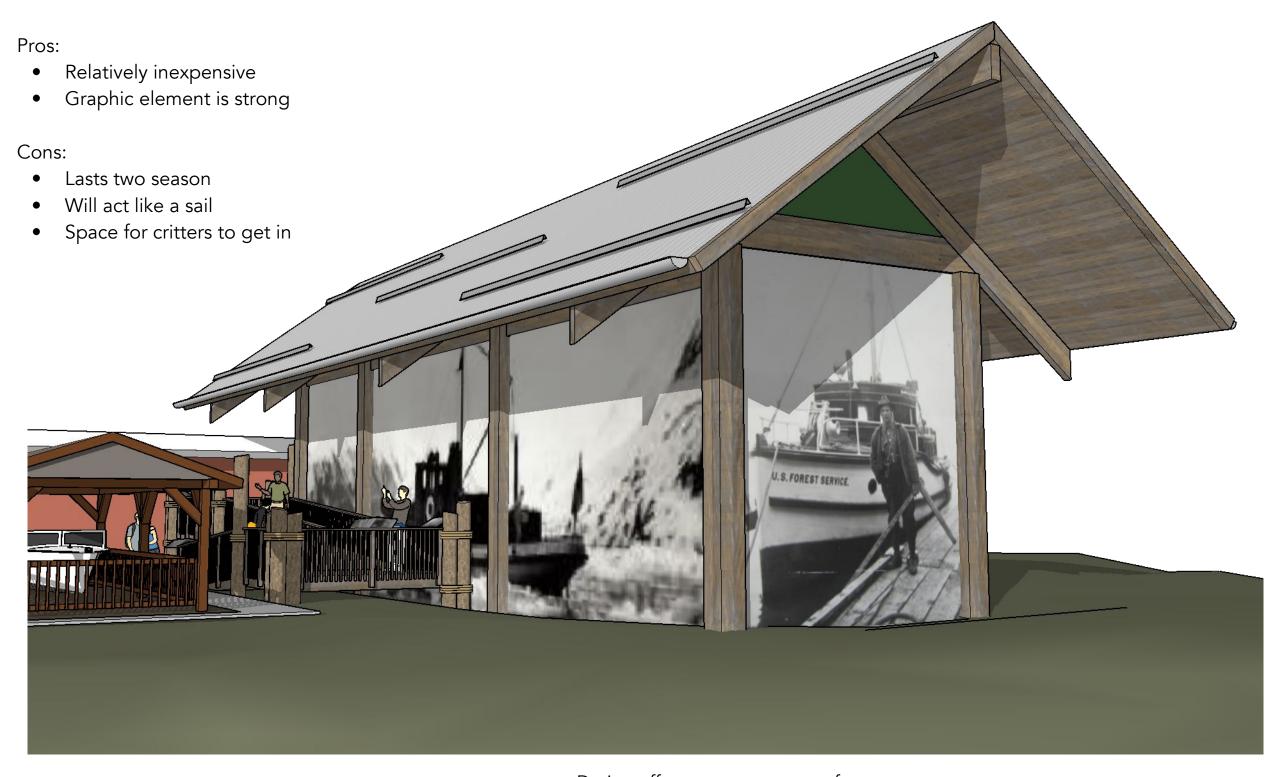








M/V Chugach Pavilion/ Conceptual Design Plan / Design

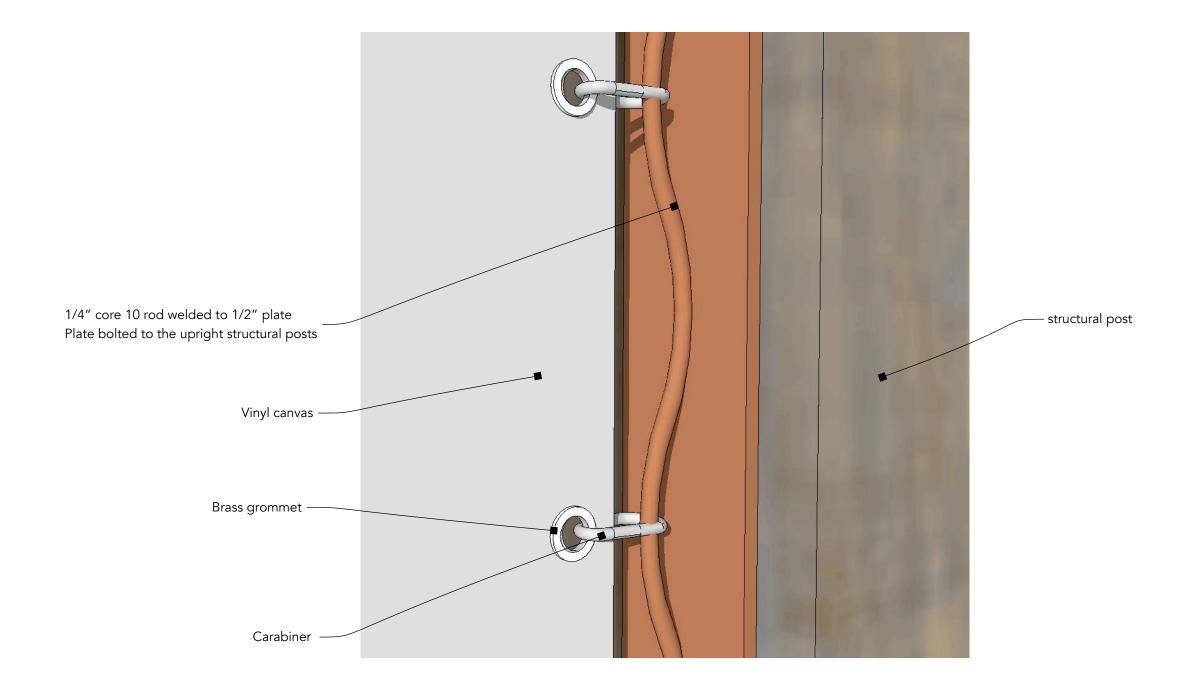


















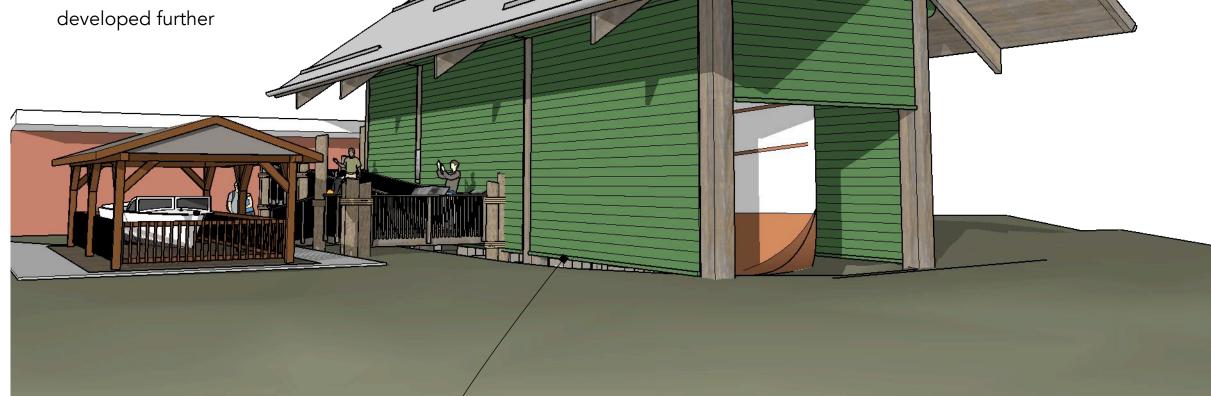


### Pros:

- Very secure
- Weather 'proof'

### Cons:

- Fundability
- Roof line will need to be developed further



Foundation not shown, to be developed. Typical of all options.

During off season roll down doors will be used. These are rolled up and fit under the cross brace of the structure. Color TBD

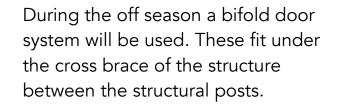
























This option shows the M/V Chugach in the pavilion enclosed in glass

- Side glass to be stationary









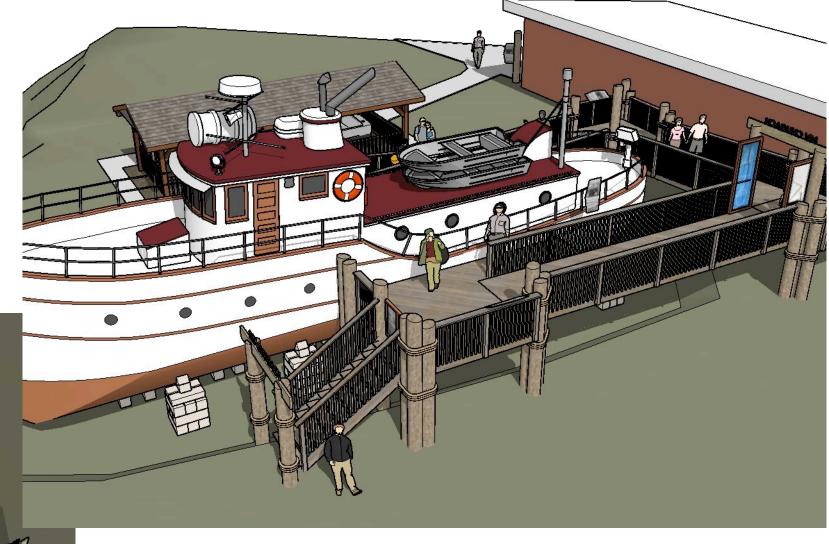
This option shows the M/V Chugach with just the ramp structure.

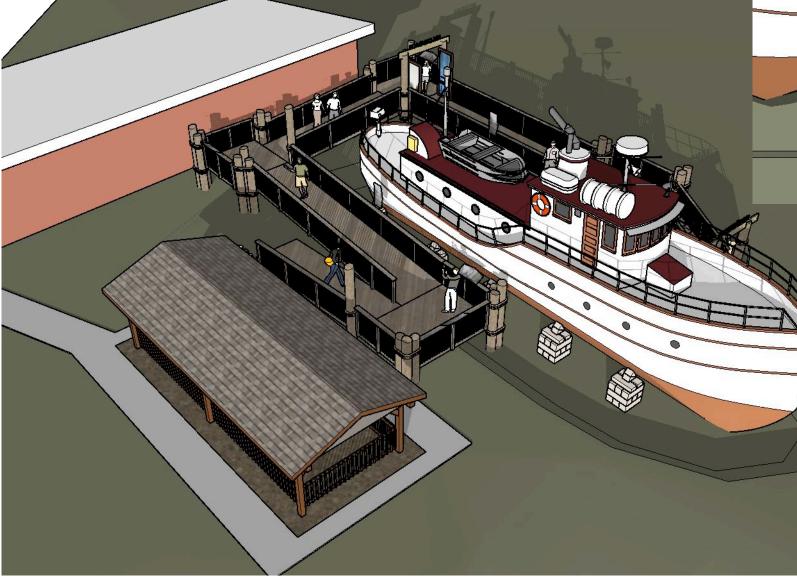










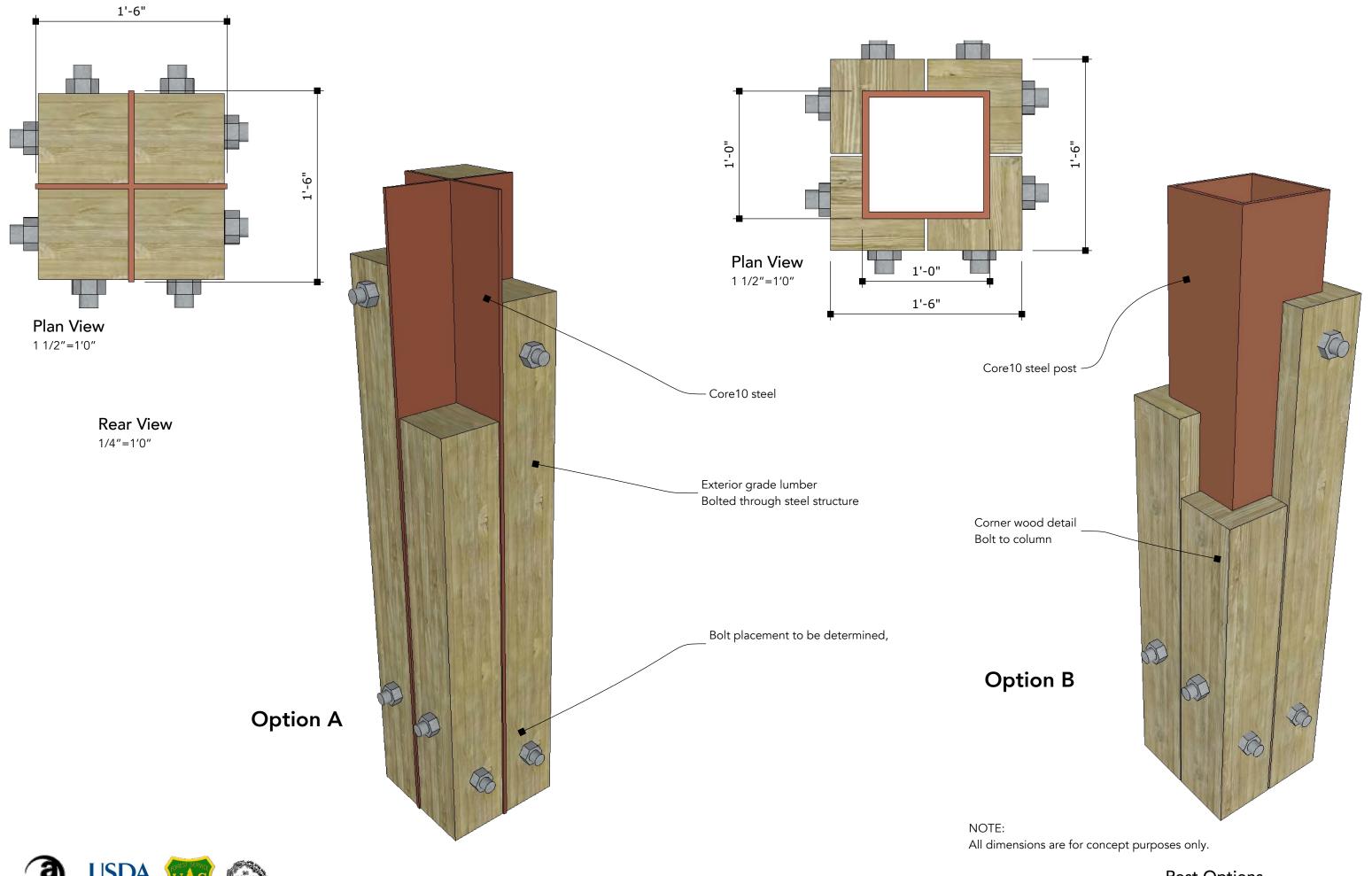








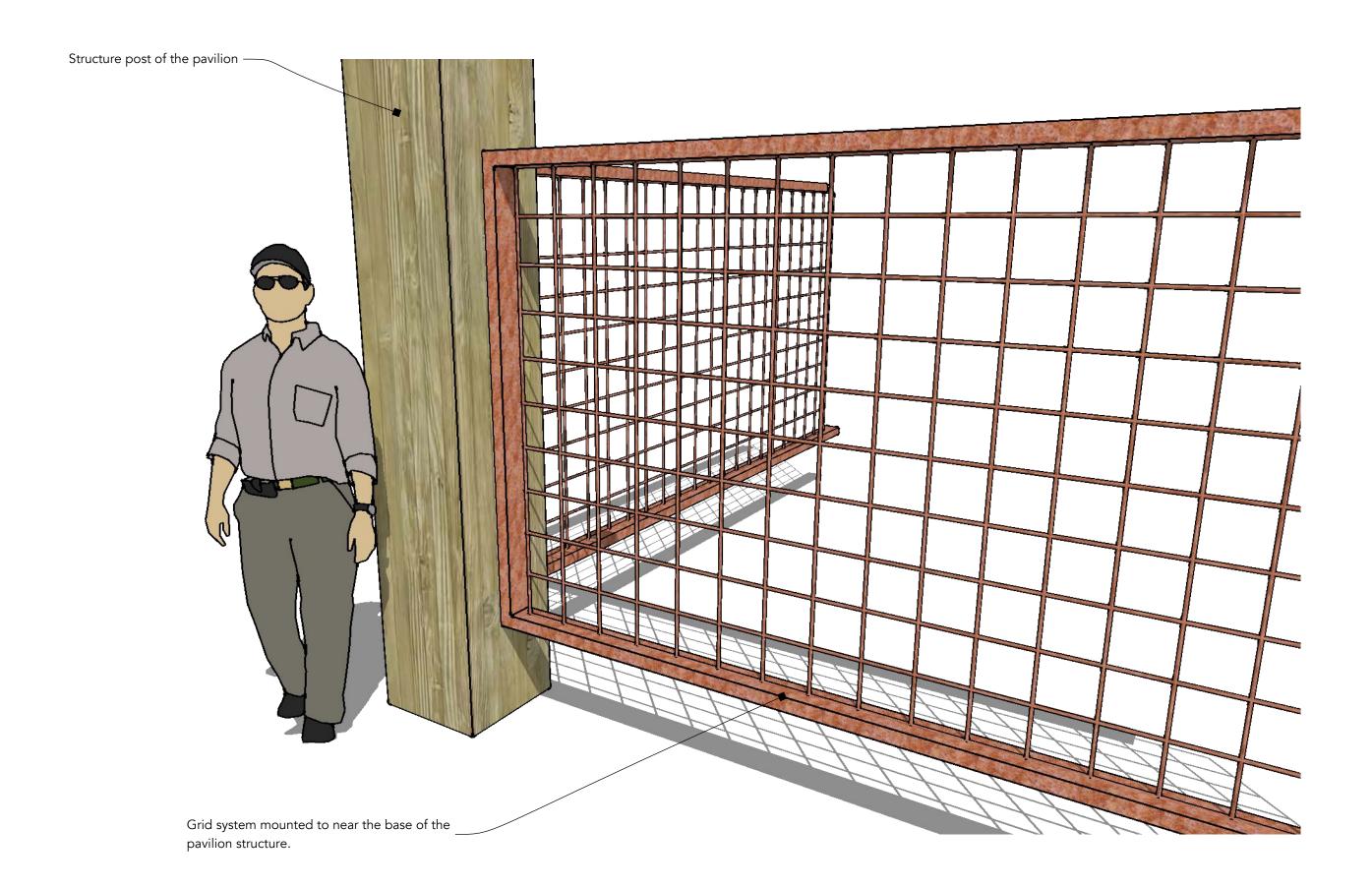












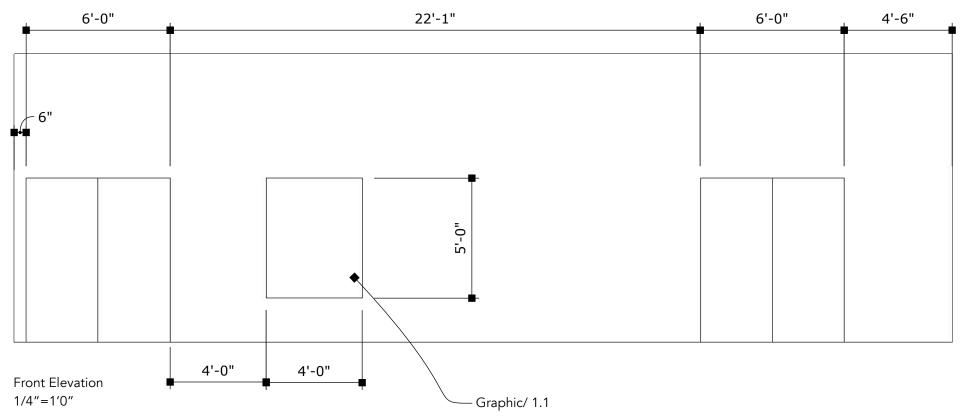


















### **Custom Structural Series**

The Sky is the Limit with this Extensive Line of Custom Structural Skylights

The Custom Structural Pinnacle Series offers maximum design flexibility and convenient on-site assembly. By utilizing ball and socket and pre-drilled construction, Pinnacle Series glass is always driven by your build's unique glazing and energy needs and available in a wide array of finish options.

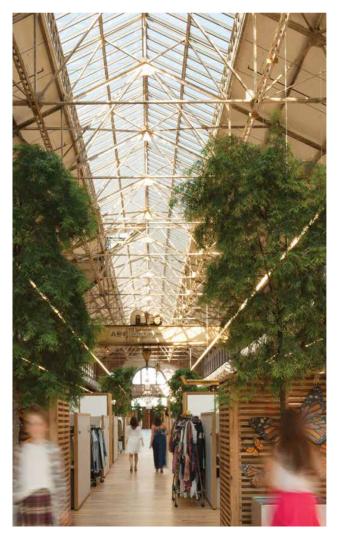


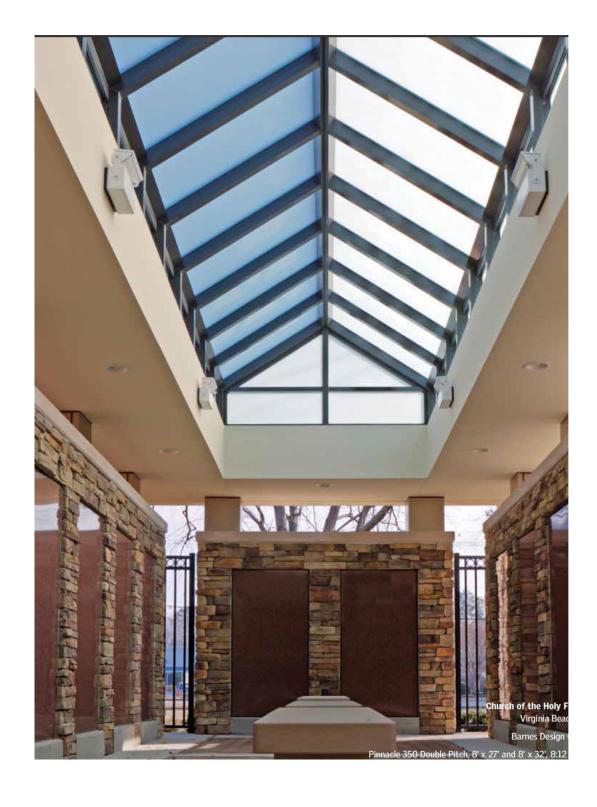
### **Custom Structural Pinnacle Series**

Available in pitched and pyramid systems, the Custom Structural Pinnacle Series offers maximum design flexibility and convenient on-site assembly by utilizing ball and socket and pre-drilled construction.

See all solutions >

https://commercial.veluxusa.com/products/metal-framed/custom





Roof detail option for glass at the apex of the roof











# Rolling Steel Service Doors 610



Rolling steel door model 610 is a perennial best-seller for good reason. The standard features exceed the norm for quality and a myriad of options allow for true customization. The Model 610 is built with a standard galvanized steel curtain, or an optional stainless steel or aluminum curtain. The standard curtain slat is the attractive C-187 curved profile, with additional slat options available in curved and flat. Finishes range from four standard colors to approximately 200 powder coat colors or matched to your specification. A host of other options — including motor operation, pass doors, exhaust ports, between-jambs mounting, cylinder locks and special usage packages — allow the 610 to be adapted to any environment.

Rolling Steel Doors

Where to Buy



































Dura Grip - High Performance Non-Slip Epoxy Paint

Dura Grip High-Performance Non-Slip Epoxy Paint is an anti-slip surface coating specifically designed to provide a UV resistant highly durable, barefoot-friendly textured paint finish on a variety of...



Tuff Grip or Tuff Grip Extreme - Aggressive Traction Non-Skid Floor Paint

**Tuff Grip is high-performance non-skid paint coating** specifically designed to provide an aggressive and highly textured anti-slip finish on a variety of surface types including metal,...

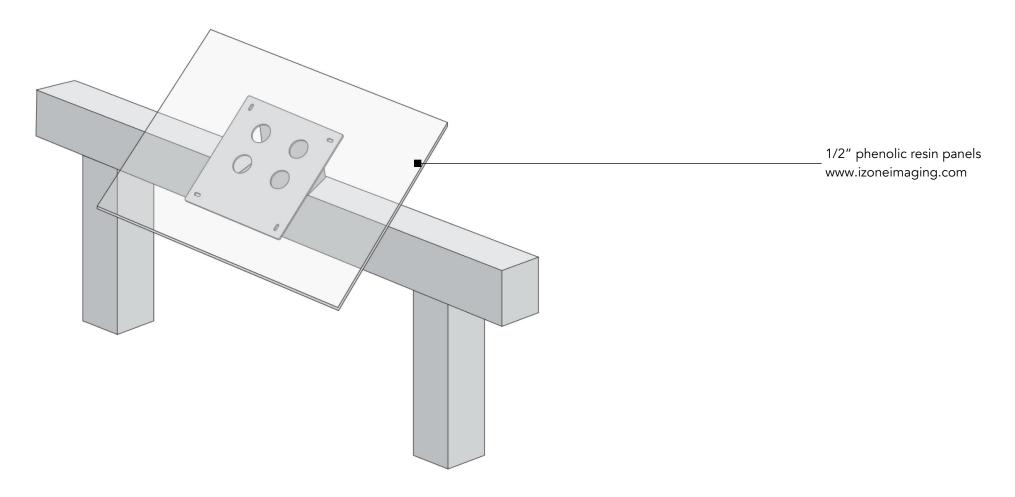
https://slipdoctors.com/collections/all/wood\_unfinished-wood?sort\_by=manual&view=list











## **Heel Mount** - Wooden Rails

- For flat or slanted wood railing
- > Large holes in face plate to access the mounting holes in the heel
- Mount plate size determined by panel size.

https://izoneimaging.com/signs-and-wayfinding/ https://izoneimaging.com/wp-content/uploads/2021/04/Rail\_Mount.pdf











# Single Pedestal

**In-Ground Mount and Surface Mount** 

**All Aluminum Construction** 

Standard Posts

3" x 3" post

**In-Ground Mount:** 60" long Surface Mount: 44.5" long

- \* Custom post lengths available
- \* Standard and custom color options available
- > Standard Mount Plates

✓ 12" x 18" √ 6" x 6" ✓ 12" x 12" ✓ 16" x 20"

- > 45° or 30° Mount Options
- > Basic and Deluxe Surface Mount Options

\* Post length is determined by panel height, installation height and burial depth

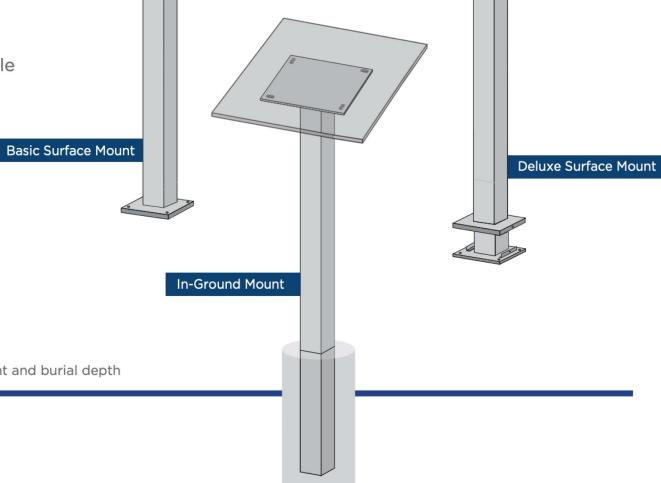


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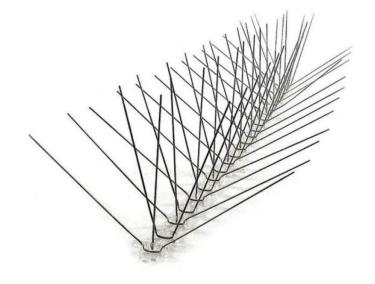


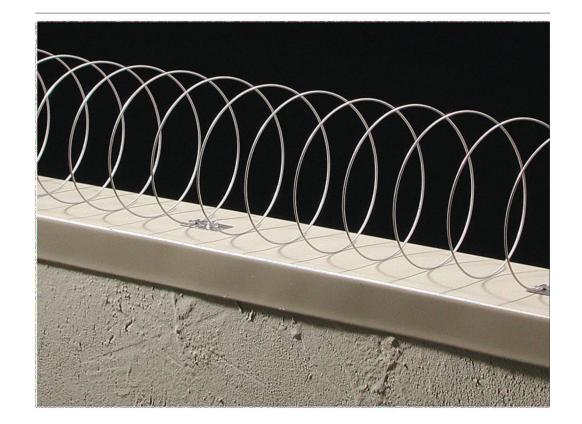




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## Extra Wide Stainless Steel Spikes, 100ft.





## Bird Repeller, 110 Vac











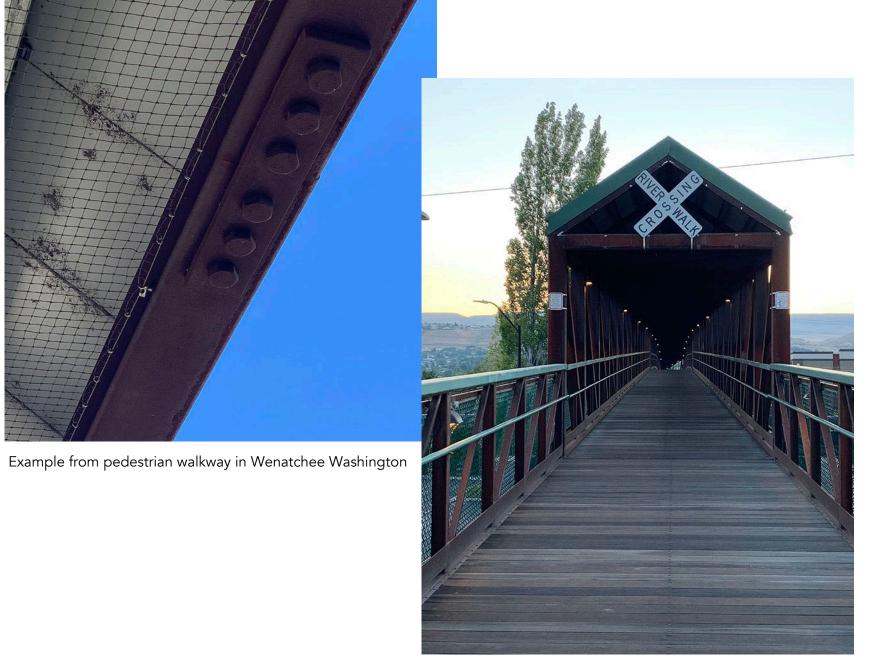








# Flame Proof Net, Black, 3/4", 50 x 100 ft.





**NOTE**: An option for a hard ceiling is stainless steel mesh.











Locate graphic centered between the windows left and right, mount on center to the windows

Locate graphic on center left and right.

- Mount at approximately the same
height as bulletin board



Graphic 4.2





Graphic 4.1

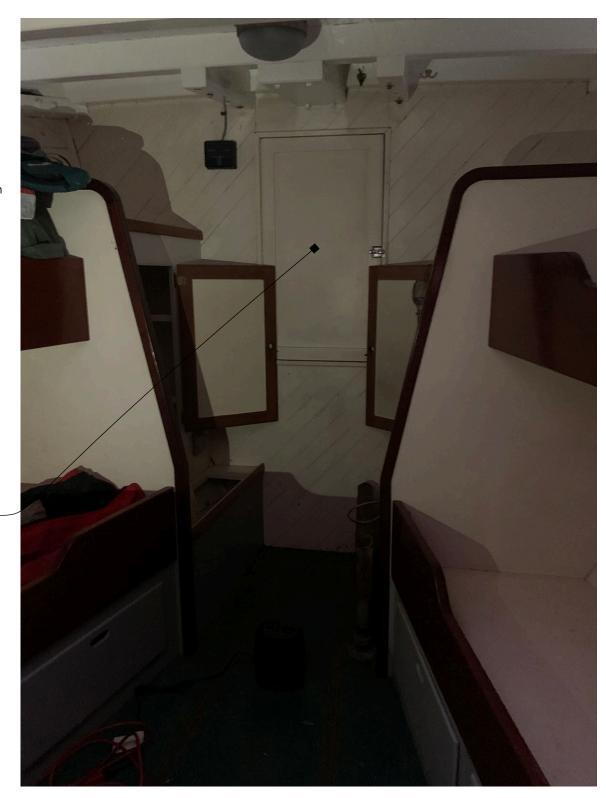






Locate graphic
Left/ right and up/down

Located graphic in the
Center of the door panel



Graphic 4.4

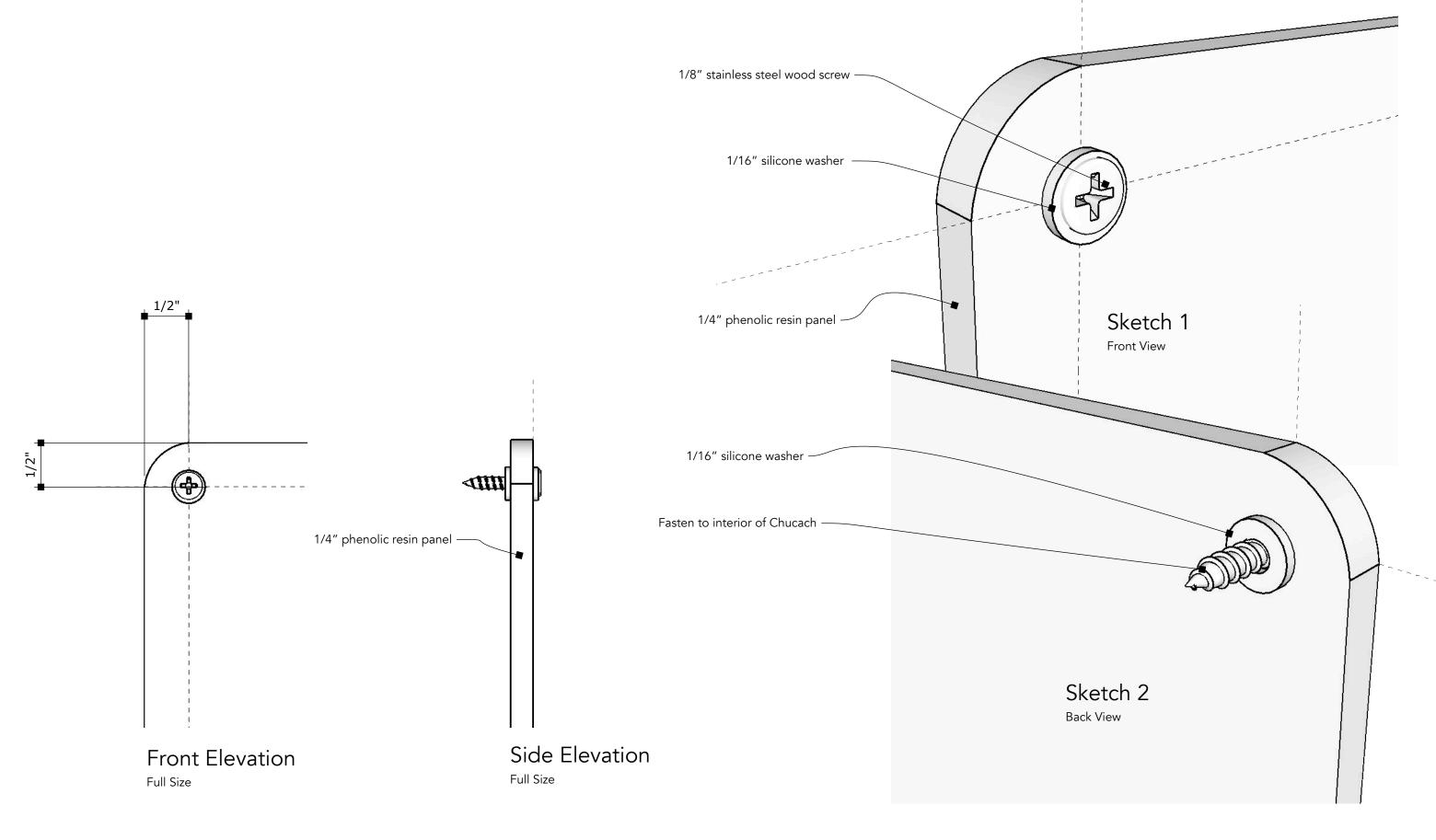




Graphic 4.3















# Title (Workhorses)

Font: Noto Serif, 110pt Style: Bold, caps



#### Subhead

Font: Noto Sans, 96 pt Style: Regular

# On the

#### Introduction

Font: Noto Sans, 40 pt Style: Bold

# Unique to the

#### Heading-1

Font: Noto Serif, 48pt Style: Bold

# The Mobile

#### Body

Font: Noto Sans, 24 pt Style: Bold **U.S. Forest Service rangers** 

#### Caption

Font: Noto Serif, 18pt Style: Italic R. Baker takes the skiff ashore from the M/V Chugach in 1965.

#### Photo Credit

Font: Noto Sans, 12pt Style: Regular Photo credit









Palette 1: Ramp Graphics

### Palette 2: Interior

Palette 3: Ramp

