



Joshua Tree Visitor Center Design Development II

Exhibit Drawing Package

Joshua Tree National Park



Ingenuity and Inspiration

Design Development II

Design Development II builds on the plan approved in the Design Development I phase. Design Development II focuses heavily on developing all interpretive content in detail, with continued design refinement to insure effective presentation of the content within the exhibit.

The Design Development II Package includes the following:

1. The Exhibit Overview (pages 1-5) serves as a reminder of the foundations, goals, and parameters for this specific exhibit project.
2. The Exhibit Descriptions and Design Drawings found in this document show the design intent, spatial relationships, and appearance of the exhibits.
3. The Graphic Layouts (separate document) apply the approved graphic design style to all graphics in the exhibition. Many images are still FPO (For Placement Only). The resolution is low because the actual graphics have not yet been obtained. The graphic layouts include the proposed text. Please review the text carefully and submit your comments along with any comments on the design.
4. Cost estimate (pages 29-30).
5. The Museum Exhibit Planner Facsimiles are compiled in the 8 ½” x 11” document that is bound separately. Elements are identified as images (IM), display objects (DO), artifacts (AR), electronic equipment and programs (EE and EP), and specialty elements (SE). Facsimiles include more detailed information (like the source) and larger photographs of the exhibit elements. Cut sheets and reference packages for the exhibit elements are included with the facsimiles.

Summary of Design Development I Comments

The comments on Design Development I have been implemented in this Design Development II document:

- For the audio stations, keep the phone-style receivers and add QR codes/shortlinks so people can listen to these on their smartphones.
- Use some of the photos on the park’s Flickr site to make the exhibit more attractive and current.
- Make exhibit structures as durable as possible.
- Exhibit 21: make the background double-sided translucent over the window so the image/exhibits are visible from the outside.
- Exhibit 22: add animal holes, debris, and rocks to the ground form around the Joshua tree. Move the desert tortoise model under the Joshua tree and put a different tactile model on the reader rail.
- Exhibit 22: include a cross-section of a typical tree to compare with the cross-section of the Joshua tree trunk.
- Exhibit 24: change the tactile fox fur to a bobcat fur and provide a source for replacements.
- Exhibit 31: Avoid the term “Pinto Man.”
- Exhibit 32: Make the rock overhang over the cache more prominent so it is more cave-like.
- Exhibit 33: Add early cattlemen to the homesteaders/pioneers. Reduce the emphasis on Keys Ranch since tours are decreasing.
- Add a cut-out of a Joshua tree to the front of the visitor center desk.
- Add identification signs for the desk functions: Fee Collection, Bookstore, Information.
- Do not use the rainbow image.

Joshua Tree Visitor Center

The Joshua Tree Visitor Center is located in the town of Joshua Tree, California, a few miles from the west entrance station. The visitor center is open daily from 8am to 5pm. The building is owned by the cooperating association and contains an information desk, sales area, café, and temporary exhibits. The west entrance station is the busiest in the park, since it is the closest to Los Angeles. Likewise, the Joshua Tree Visitor Center gets the most visitation of the visitor centers in the park.

Visitors stop at Joshua Tree Visitor Center to make reservations for tours of Keys Ranch and to obtain maps and information about other popular activities like hiking, birding, backpacking, camping, rock climbing, and horseback riding. During spring, the park's busiest season, many visitors ask where to see wildflowers. They can purchase publications in the sales area, refreshments in the café, and have access to other visitor facilities.

The existing exhibit panels in the exhibit area address the value of preserving Joshua Tree National Park. The visitor center lacks permanent exhibits that present an overview of the park's natural and cultural history, safety messages, and preservation efforts. The exhibits described in this Design Development II document are intended to address these needs.

Audience

Of the four visitor centers in the park, two are full service (Oasis and Joshua Tree), and two are smaller (Cottonwood and Black Rock). The Joshua Tree Visitor Center exhibits should focus on first- or second-time visitors. Exhibit audiences include first time climbers, family visitors, short-timers, international visitors, bus tour participants, pass buyers, people visiting after hours, and the community. Many visitors to Joshua Tree National Park also tour Mojave National Preserve and Death Valley National Park.

Because of the limited building size and the large number of visitors during peak weekends, park staff would like visitors to be engaged with the exhibits for about 15 to 30 minutes.

Goals

Creating an effective exhibition requires having clearly established goals; these are the broad purposes of the exhibition. Specific objectives for each exhibit area within the exhibition directly link back to the overall goals.

The Joshua Tree Visitor Center exhibits will:

- Orient visitors to Joshua Tree National Park, and help them plan their visit by providing options and recommendations,
- Tell compelling stories that create opportunities for visitors to discover meanings, connections, and insights into the park's natural and cultural resources,
- Excite visitors to explore the park, while instilling an ethic to care for these precious resources, and provoking them to learn more,
- Interpret parts of the park that are difficult to access,
- Facilitate visitor flow by drawing people out of the crowded sales area and into the exhibition, and
- Provide safety messages and build an awareness of potential hazards.

Building Modifications

Through the Schematic Design phase submittals and discussion, the park, partners, and HFC design team agree that some changes to the existing building would significantly improve the visitor experience in the exhibition. Therefore, this document reflects the understanding that the following architectural changes will be made to the building. Since construction is not part of HFC's scope of work, these changes are not included in the cost estimate. However, if these changes are not made, the exhibits will need to be redesigned to meet the existing building conditions.

- Remove the soffit in the exhibition space. Once an art gallery, the exhibit room includes a soffit at about eight feet, with recessed lighting. With the soffit removed, the exhibits are taller and have more impact. The design that follows is based on ten-foot-tall photography. If the soffit cannot be removed, we will need to shorten the height of the exhibits to eight feet.
- Move the office door from the exhibit area to the wall behind the information desk to connect potential exhibit spaces and improve safety for sales and park staff.
- Some electrical outlets, thermostats, or security system elements will need to be relocated to accommodate the final design, along with repair and repainting of all walls. These costs are not included in the cost estimate since they are part of the building systems.
- (Optional) Install carpet, cork, or other soft flooring to reduce noise and increase comfort for standing visitors. HFC is specifying the flooring in this phase.

Note: The Joshua Tree Visitor Center building is owned by the Joshua Tree National Park Association, the park's cooperating association. All proposed architectural changes must be approved by the Association.

Design Criteria

The new exhibits at the Joshua Tree Visitor Center will:

- Be accessible and incorporate the principles of Universal Design,
- Link to the park's interpretive themes, and complement the personal services provided by park staff, like the Keys Ranch tour,
- Present stories through a variety of exhibit techniques to reach people with different learning styles,
- Use hierarchical text to reach different interest levels, time constraints, learning styles, and age groups,
- Enhance visitor flow so large numbers of people can easily move around the space,
- Complement the planned exhibits for Oasis Visitor Center, the existing exhibits at Cottonwood Visitor Center, and other interpretive media,
- Reduce the natural lighting through the glass windows and doors and ensure that window graphics will be long-lasting,
- Minimize maintenance requirements and limit audiovisual interactives to solid-state players,
- Use only reproductions of museum objects, not originals,
- Where original artifacts are used they will be protected by casework that is compliant with current NPS museum standards, and
- Use sustainable materials, methods, and energy efficient equipment when their performance is comparable or better, and financially feasible. The maxim that one way to make an exhibit sustainable is to build it only once shall apply.

Interpretive Themes

These themes are based upon the Interpretive Themes from the Draft Long Range Interpretive Plan (2008). However, they have been combined and consolidated to reflect the discussions from the charrette and Schematic I meetings. They are for exhibit planning purposes only and will not appear in the exhibit text verbatim.

Orientation

With proper planning, Joshua Tree National Park can be a place where you can safely explore the desert and ignite your creativity, challenge your body and restore your mind, sift through the past and prepare to shape the future.

Global Values

Joshua Tree National Park reflects the changing global values of desert conservation, wilderness, and outdoor recreation, and the struggle to maintain these ideals with public use and changing environmental conditions outside the park.

Inspiration and Artistry

The vast expanses of mountains and valleys, the rock outcroppings sculpted by nature, and the silence, solitude, and stark beauty of Joshua Tree National Park have inspired people musically, artistically, creatively, and spiritually for centuries and still today.

Landforms, Landscapes, Geology and Paleontology

Mountain ranges, desert basins, and massive rock outcrops are evidence of plate tectonics, volcanism, earthquakes, and erosion; and fossils are evidence of prehistoric plants and animals. Both tell us how different this area was ages ago.

Desert Ecology and Ingenuity of Life

As the lower warmer Colorado desert merges with the higher cooler Mojave, these ecosystems and their transition zones harbor an abundance of diverse plants and animals that are adapted to the microclimates throughout Joshua Tree National Park.

Pre-historic and Historic Cultural Resources

From petroglyphs and bedrock mortars to deserted stamp mills and dams, Joshua Tree National Park's cultural resources demonstrate the resourcefulness and resilience of those who have lived and still live in this challenging desert environment.

Exhibits

Audio Description

Audio description is a legally required service for people who are blind or have low-vision, and consists of a separate audio track that describes the visual components of the visitor’s experience.

HFC recommends using the Durateq ATV System (<http://www.durateq.com/>) for the Joshua Tree Visitor Center exhibits. The Durateq uses portable hand held devices about the same size as a smart phone. The device includes tactile buttons and controls for program navigation and volume level, and headsets or neck-loops for users. Using low power infrared transponders at specific locations amongst the exhibits, the handheld devices will deliver audio description and hearing assistance. The system can be fitted to the room any time during or after the exhibits are installed.

Outdoor Orientation

Although this is not in HFC’s scope, discussions suggested that exterior orientation would benefit after-hours visitors. At the Schematic I Presentation, the park decided to move the map from the introductory exhibit of alternative 2, to a location outside the building and add a “Top 10 places to see in the park” exhibit.

These orientation exhibits should also include important regulations and safety messages and welcome evening and early morning visitors. Since these are outside of HFC’s scope, no work will be done on them, except to mention them here.

Patio Murals

A separate project is funding the creation of illustrated murals that showcase the prehistoric life that has been discovered through paleontology. The murals will be installed outside along the curved patio wall, but visitors will be able to see them through the glass doors in the exhibit room. The exhibit will be arranged to bridge the content between the interior and exterior exhibits.

Exhibit Material & Colors

Key to Materials and Colors:

M1 = Cherry Veneer Plywood
M2 = Corian Solid Surface "Serene Sage"
M3 = HPL, Nevamar 2-1025
M4 = Cork Floor

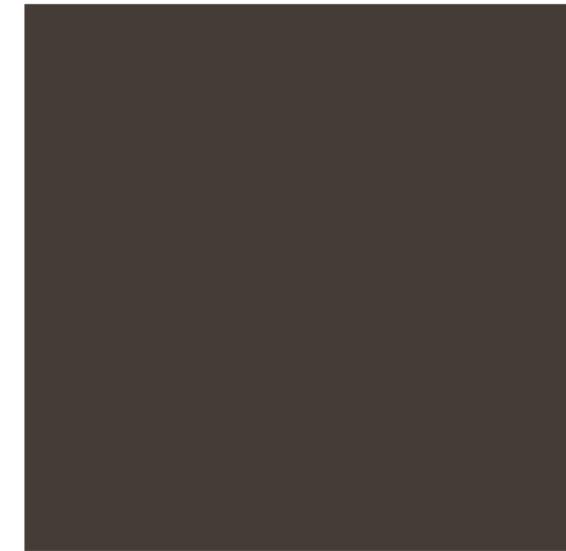
P1 = Paint (Benjamin Moore 1007)
P2 = Paint (Benjamin Moore 2116-10)

PC1 = Powder-coating - Tiger Drylac "Graphite"

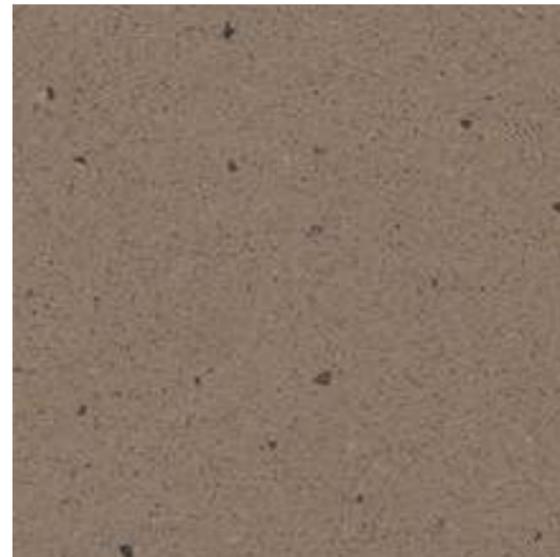
(Material & color swatches to right are new since DD I)



HPL, Nevamar 2-1025



Paint (Benjamin Moore 2116-10)



Corian Solid Surface "Serene Sage"

View or Detail symbol: arrow denotes direction of view;
circle denotes page number (top) and view or detail number
(bottom).



Joshua Tree National Park: Floor Plan

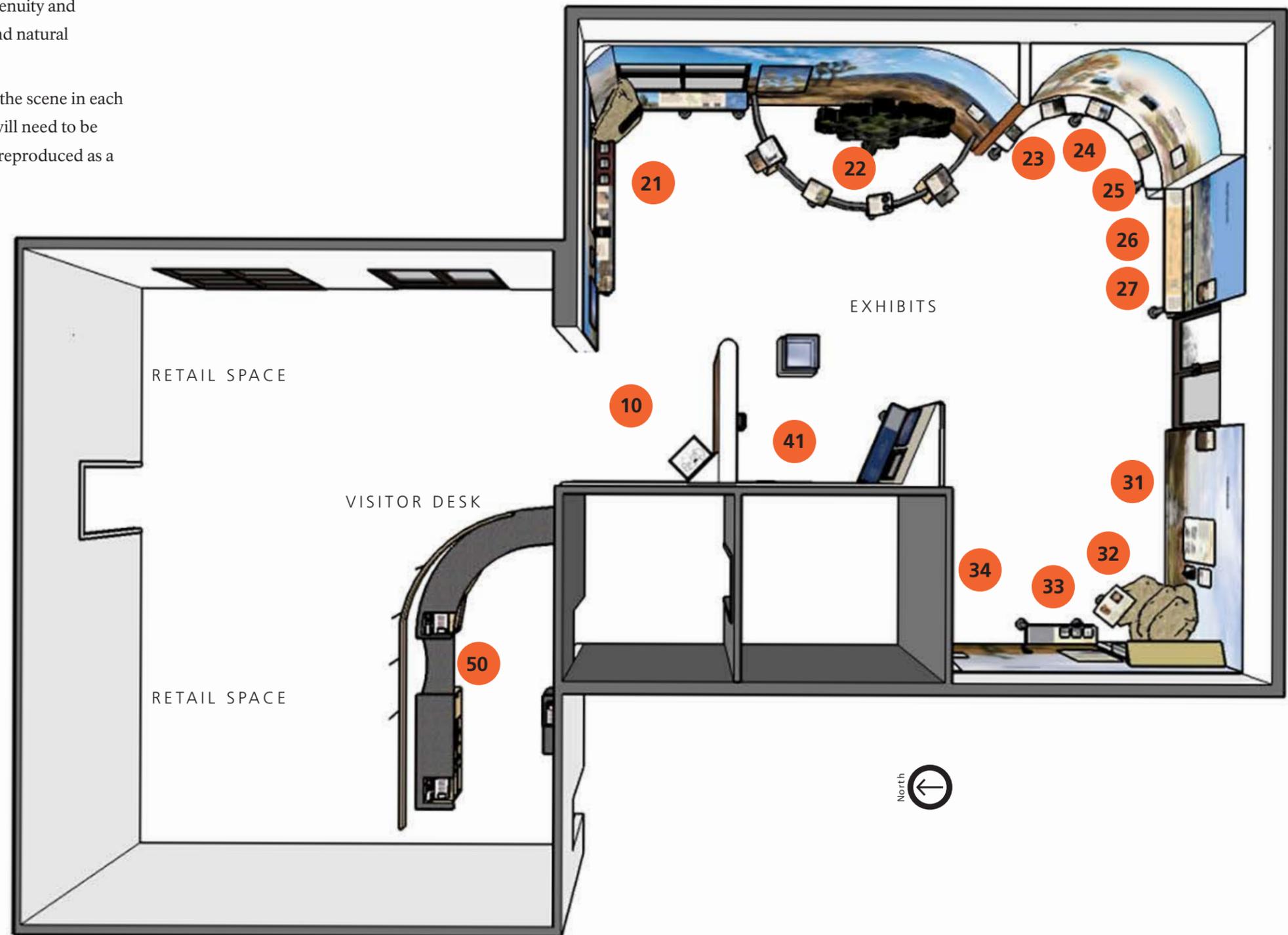
From the kangaroo rat's ability to metabolize water from dry seeds to Minerva Hoyt's traveling cactus exhibition, those who live in the desert here demonstrate an ingenuity that can inspire all of us. This exhibit focuses on ingenuity and inspiration and explores the interactions between the physical and natural environment past and present.

Graphically, this approach uses large photographic murals to set the scene in each section. Some of these photographs may already exist but most will need to be commissioned in order to get the image resolution needed to be reproduced as a floor-to-ceiling image.

The exhibits are described moving clockwise around the room.

List of Exhibits and their main page:

- Exhibit 10: Enjoy . . . And Be Safe..... Page 8
- Exhibit 21: A Rocky Foundation..... Page 9
- Exhibit 22: A Tree of Life: The Joshua Tree..... Page 10
- Exhibit 23: High in the Mojave..... Page 13
- Exhibit 24: On the Fly/On the Move..... Page 13
- Exhibit 25: Low in the Colorado..... Page 13
- Exhibit 26: Shifting Sands: The Pinto Basin..... Page 15
- Exhibit 27: What's This? (Paleontology)..... Page 15
- Exhibit 31: What's This? (Archeology)..... Page 16
- Exhibit 32: Homelands..... Page 16
- Exhibit 33: And Homesteads..... Page 18
- Exhibit 34: A Desert Refuge..... Page 20
- Exhibit 41: An Artistic Oasis..... Page 21
- Exhibit 50: Visitor Desk..... Page 24



Joshua Tree National Park: Exhibit 10: Ingenuity and Inspiration



Exhibit 10: Enjoy . . . And Be Safe!

Purpose

To provide an overview of the park story, and introduce the exhibit theme of ingenuity and inspiration.

Visitor Experience

As people enter the visitor center and walk to their left towards the exhibit area, they are greeted by a large mural-sized photograph of a classic Joshua Tree NP landscape. Text welcomes visitors to the park and introduces the ideas of ingenuity and inspiration. A graphic panel provides safety messages. Looking beyond the introductory exhibit, visitors are drawn to a life-size model of a Joshua tree located in front of the east wall of the exhibition room, but easily seen from the entrance.

Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. A tactile floorplan with Braille is included. The exhibition is audio described as a whole. Exhibit text will be high-contrast with the background.

Joshua Tree National Park: Exhibit 21: A Rocky Foundation

Exhibit 21: A Rocky Foundation

Purpose

- Describe how geologic processes, like plate tectonics, earthquakes, and erosion create the unusual rock shapes (rock piles and sculptures) here.
- Describe the relationship between faults and oases and emphasize that water attracts life here.

Visitor Experience

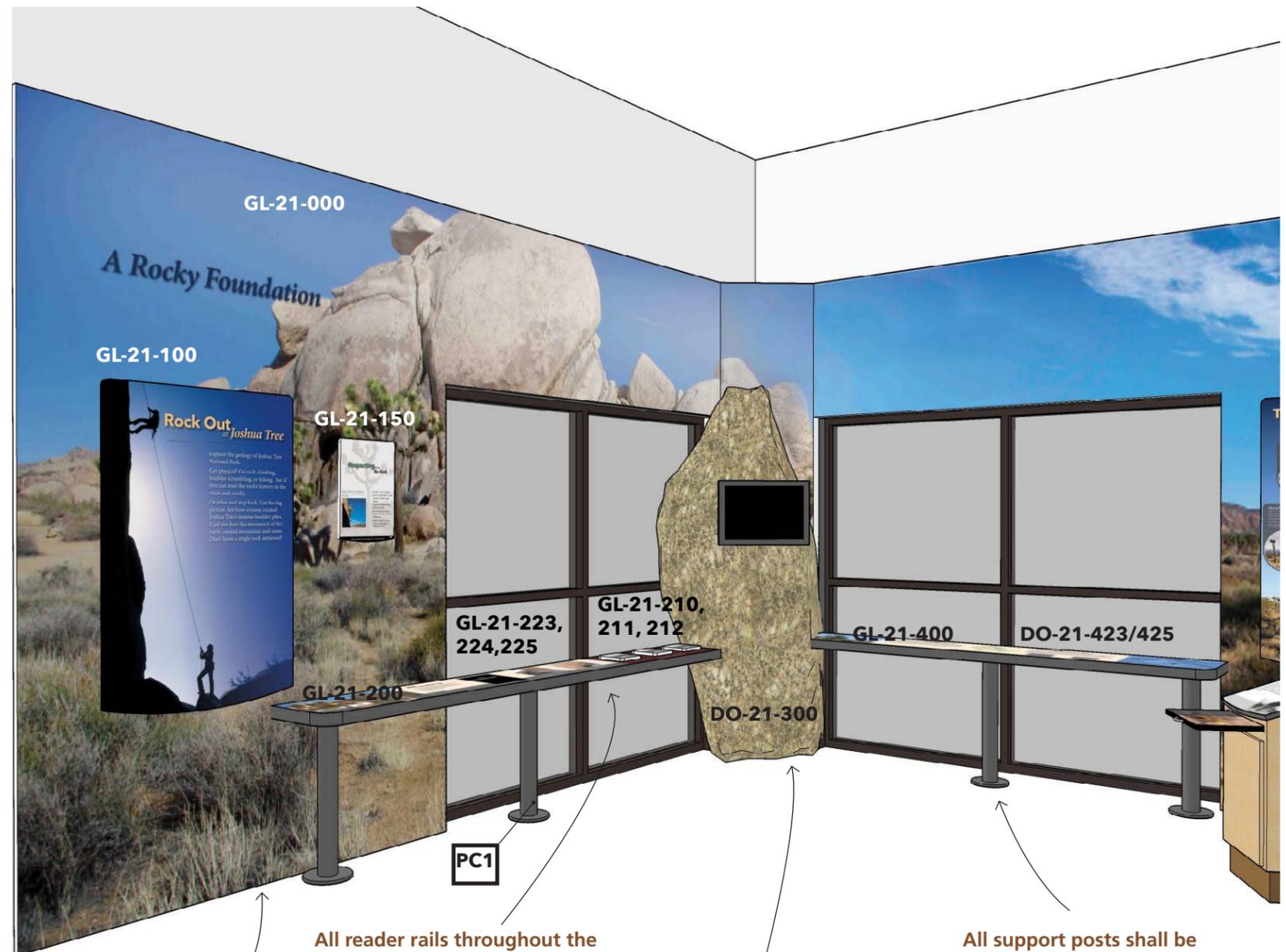
Joshua Tree's geology and amazing rockscapes are the foundation for all of the stories of ingenuity and inspiration, so we start here. The photographic mural features a panoramic landscape of Cap Rock and Ryan Mountain. The background image illustrates some of the important geological concepts.

A low-tech interactive consisting of a set of overlaid opaque panels shows how fractures and joints turn into the boulder formations in the park. Captions explain how the dikes and stone wall formations (shown in photographs) were formed and how lichens also erode rock.

A computer-generated animation explains the formation of the mountains. A map shows how the oases are often aligned on faults that continue to shape the park. Visitors are encouraged to match rock samples (gneiss, granite) to where they would be found in the landscape on the mural.

Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. Tactile rock samples are included. The exhibition is audio described as a whole. Exhibit text will be high-contrast with the background.



Photographic background mural is continuous within exhibits 21 and 22. Note: The sections of the mural that overlap the windows are printed on 70% perforated film and applied to the window glass; image is visible from the inside while the windows appear tinted from the outside.

All reader rails throughout the exhibit are of the same height and depth dimension and vary in length. Where possible they shall be anchored to nearby walls. Here the rock model supports one end of each rail.

Modeled monzogranite rock formation contains monitor and equipment for playing a short geological animation illustrating geologic processes that formed JTNP. The program will be push-button activated.

All support posts shall be anchored to the floor slab by at least three bolts.

Joshua Tree National Park: Exhibit 22: The Joshua Tree

Exhibit 22: The Joshua Tree - A Tree of Life

Purpose

- To interpret the Joshua tree (*Yucca brevifolia*), the namesake of the park.
- To provide a place for rangers to award Junior Ranger badges and sign booklets.

Visitor Experience

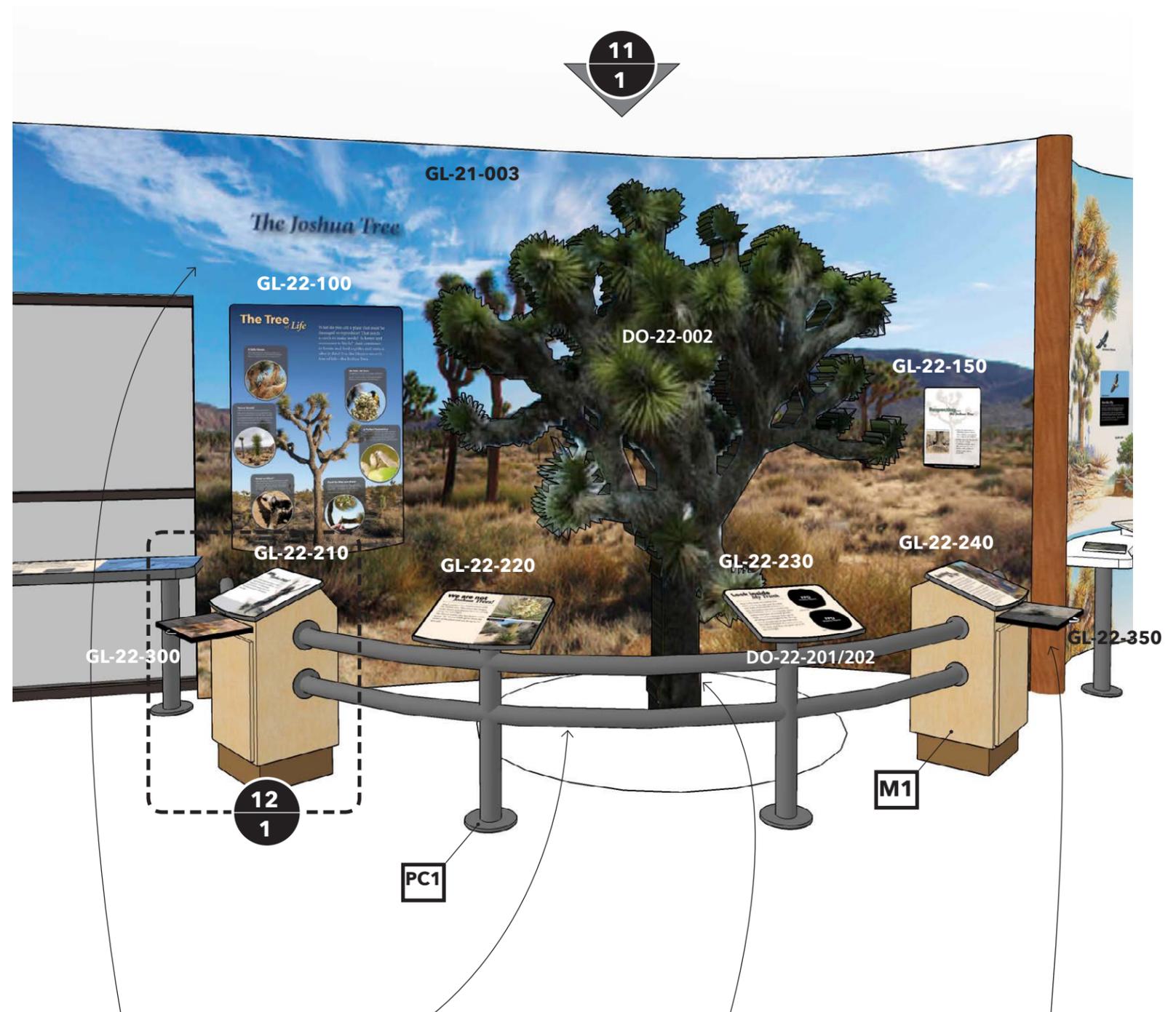
A life-size model of a Joshua tree grounds this exhibit and attracts people into the whole exhibition. A graphic panel on the wall showcases the adult tree, its blooms, fruit, seeds, and a decaying tree and shows some animal species that benefit from the tree during each phase.

Graphic panels on a metal railing surround the model tree with interpretation. One panel compares a cross-section of the Joshua tree trunk with a typical woody tree. One depicts the origin of the plant's common name. Another compares the Joshua tree with two easily confused species: the Mojave yucca and Parry's nolina. The last graphic panel describes how climate change threatens this desert icon.

Beneath two of the graphic panels are cabinets for storing Junior Ranger brochures. Two breadboard-like panels slide out to interpret burrowing tarantulas and the desert tortoise, and also serve as a temporary writing surface for staff and Junior Rangers.

Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. A tactile cross-section of tree trunks is included. The exhibition is audio described as a whole. Exhibit text will be high-contrast with the background.

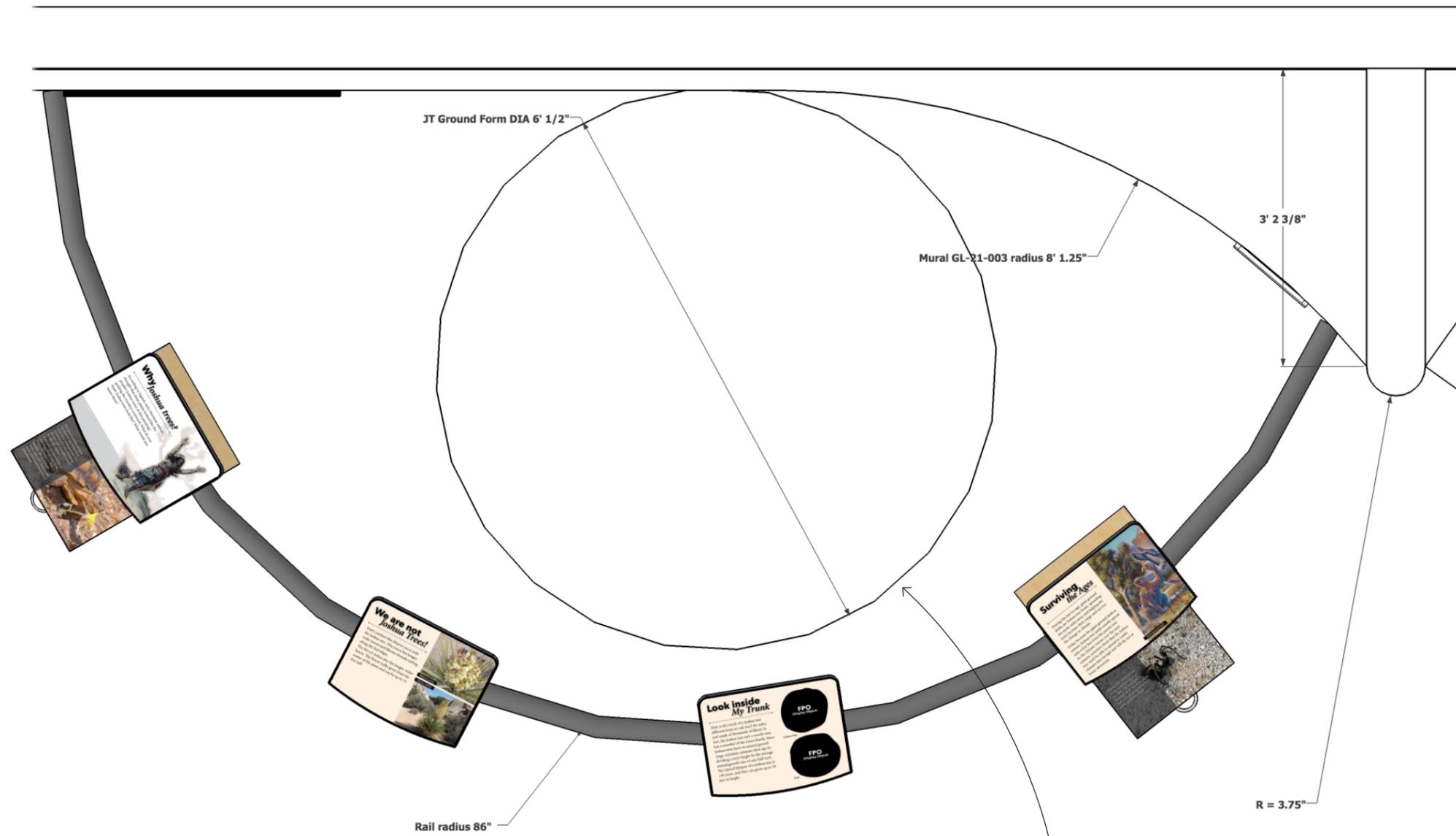


Mural background photo (10 feet high) is a panoramic image continuous with the background of the geology section.

Powder-coated welded steel rail allows visibility of JT model and base while deterring visitors; top of rail shall be at 27".

Approximately nine foot high model of a Joshua tree sits on a ground form with a modeled tortoise and rattlesnake.

Junior Ranger "bread-board" pull out and base cabinet (2) provides storage for brochures and Junior Ranger booklets.

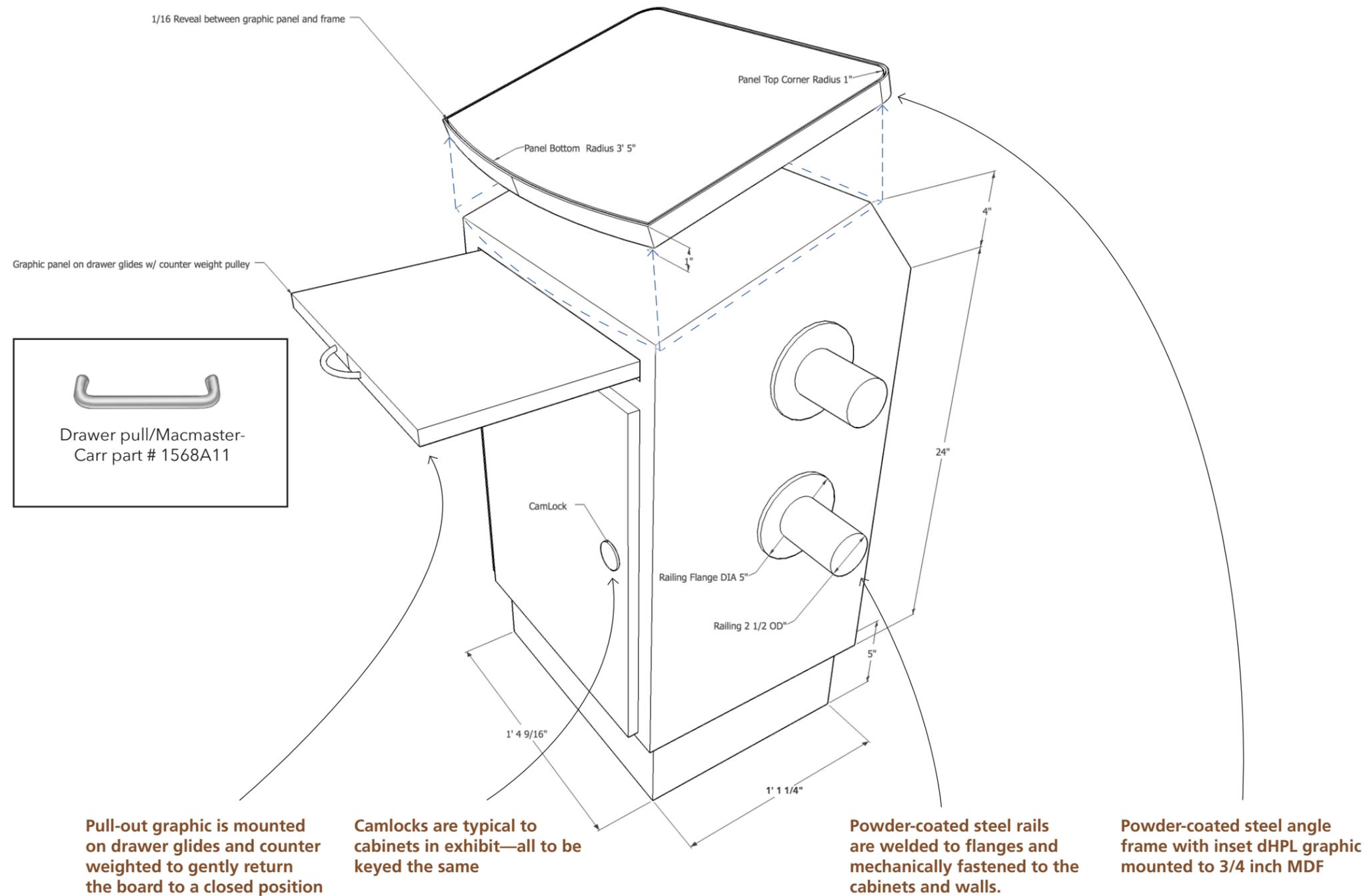


Ground form for Joshua tree model provides a wide base and weight to stabilize the tree; additional bracing to the mural wall may be necessary. Display objects DO-22-004 and DO-22-005 are integrated in the form.

Ex. 22 Plan View 1

Not to scale

Joshua Tree National Park: Exhibit 22: Rail Cabinet Detail (both cabinets identical except graphics)



Rail Cabinet / Detail 1

Not to scale

Joshua Tree National Park: Exhibits 23, 24, 25: High in the Mojave, Migration, & Low in the Colorado

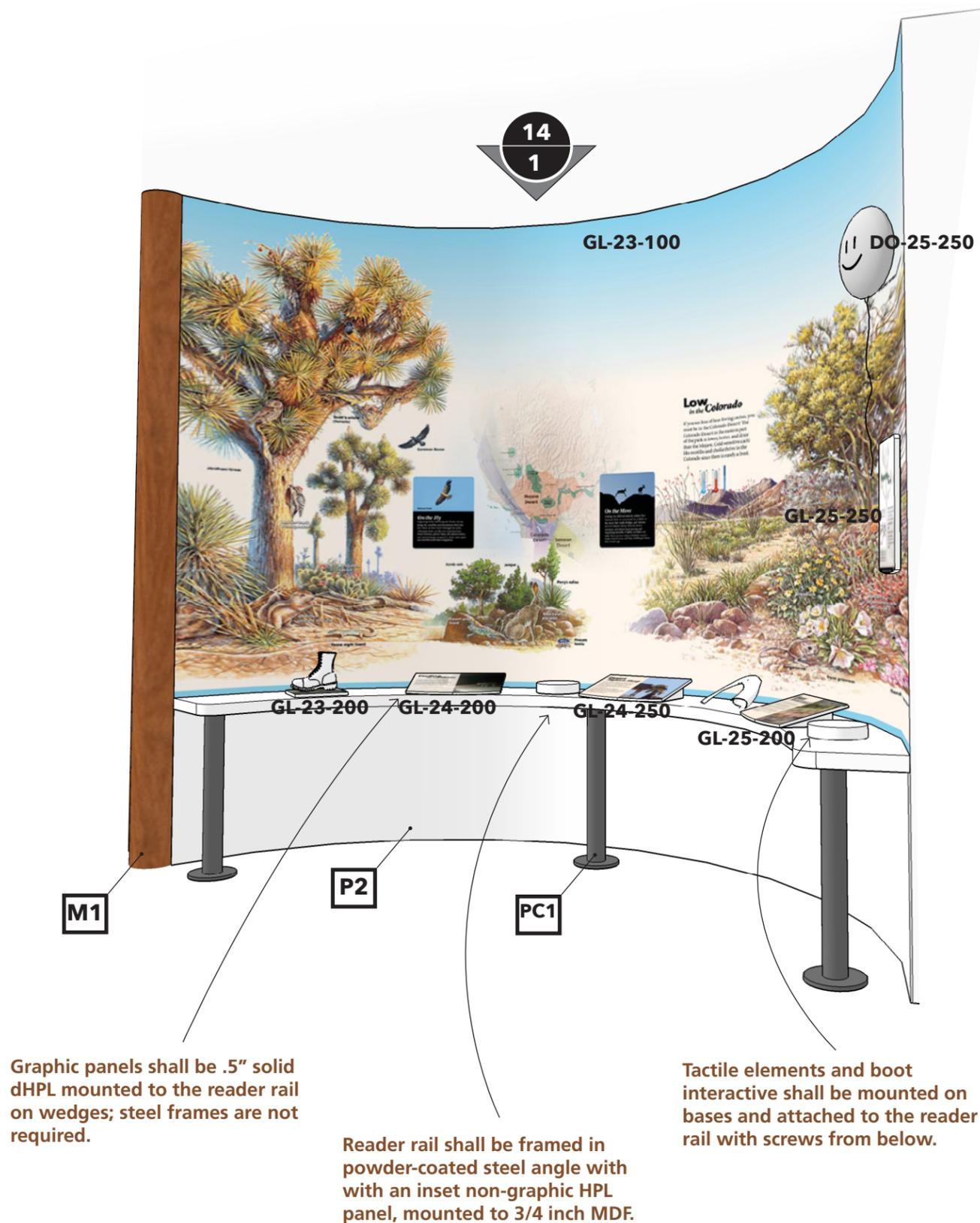


Exhibit 23: High in the Mojave

Purpose

- Describe the Mojave Desert: its characteristics and key plant species.
- Explain cryptobiotic crust—the glue that holds the desert together.

Visitor Experience

This exhibit highlights the ingenuity of desert life and how living things survive (and thrive!) in this harsh environment. A thermometer image (with both Celsius and Fahrenheit) shows the typical high and low temperatures for summer and winter in the Mojave. The unigrid-brochure illustration of plants and animals in the Mojave is used to highlight key species. Visitors lift a hiking boot to learn how walking off the trail damages the cryptobiotic crust. A photo shows crust and a caption explains the role of cyanobacteria, which is destroyed when soil is compacted by feet or tires.

Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. Tactile hiking boot is included. The exhibition is audio described as a whole. Exhibit text will be high-contrast with the background.

Exhibit 24: Migration: On the Fly/On the Move

Purpose

Show how wildlife depends upon deserts and resources both inside and outside of park boundaries.

Visitor Experience

This exhibit explains that most of the park lies in the transition zone between the Colorado and Mojave deserts. Animals often use resources in both types of deserts inside and outside the park. A map shows the Mojave and Colorado deserts and how preserved wildlife corridors allow species like bighorn sheep to move between habitats.

Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. Tactile bobcat fur and bighorn sheep horn are included. The exhibition is audio described as a whole. Exhibit text will be high-contrast with the background.

Joshua Tree National Park: Cont. Exhibit 25: Plan View Exhibit 23-25 Reader Rail

Exhibit 25: Low in the Colorado

Purpose

Describe the Colorado Desert: its characteristics and key species of desert plants and animals.

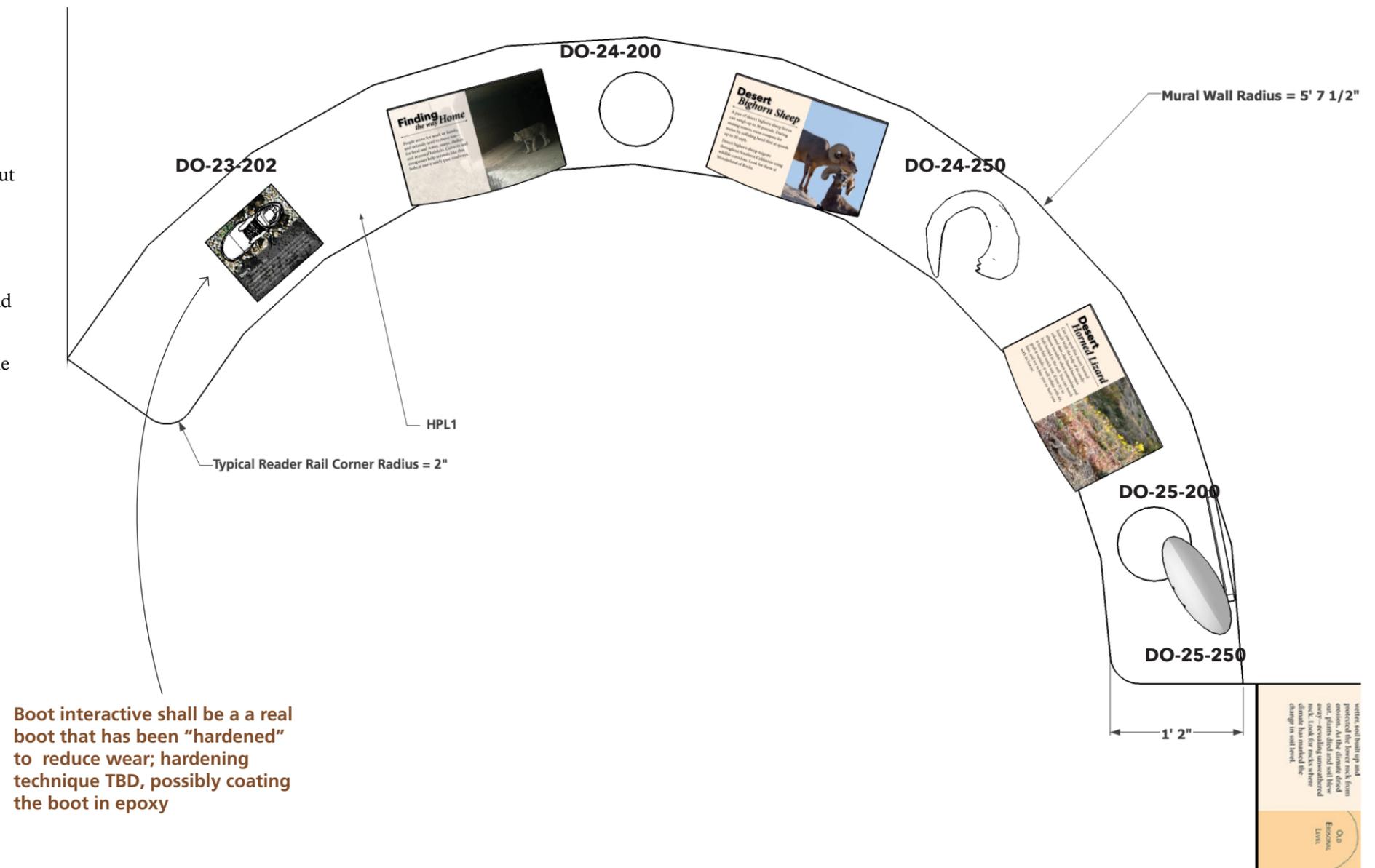
Visitor Experience

This exhibit mirrors the Mojave exhibit in layout for a direct comparison. A thermometer image (with both Celsius and Fahrenheit) is repeated here with the typical high and low temperatures for summer and winter in the Colorado. The Colorado is part of the larger Sonoran Desert.

A real 3D mylar balloon is attached to a conservation-call-out panel that talks about how air from outside the park—carrying everything from balloons to pollution—comes into the park.

Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. Tactile models of a reptile and a mylar balloon are included. The exhibition is audio described as a whole. Exhibit text will be high-contrast with the background.



Ex. 22 Reader Rail / Plan View 1

Not to scale



Exhibit 26: Shifting Sands

Purpose

Describe how climate change and erosion shaped the valley.

Visitor Experience

The background mural of the Pinto Basin contrasts with an inset of the paleontology mural. Text describes the changes in climate. Tactile models of a bison tooth and the park's camel foot bone are attached to the paleontology image. A diagram on the reader rail illustrates how erosion rates differ as the climate changes. Visitors are challenged to think about how climate change will affect the future of the park.

Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. A tactile bison tooth and camel foot bone are included. The exhibition is audio described as a whole. Exhibit text will be high contrast with the background.

Exhibit 27: What's This? (Paleontology)

Purpose

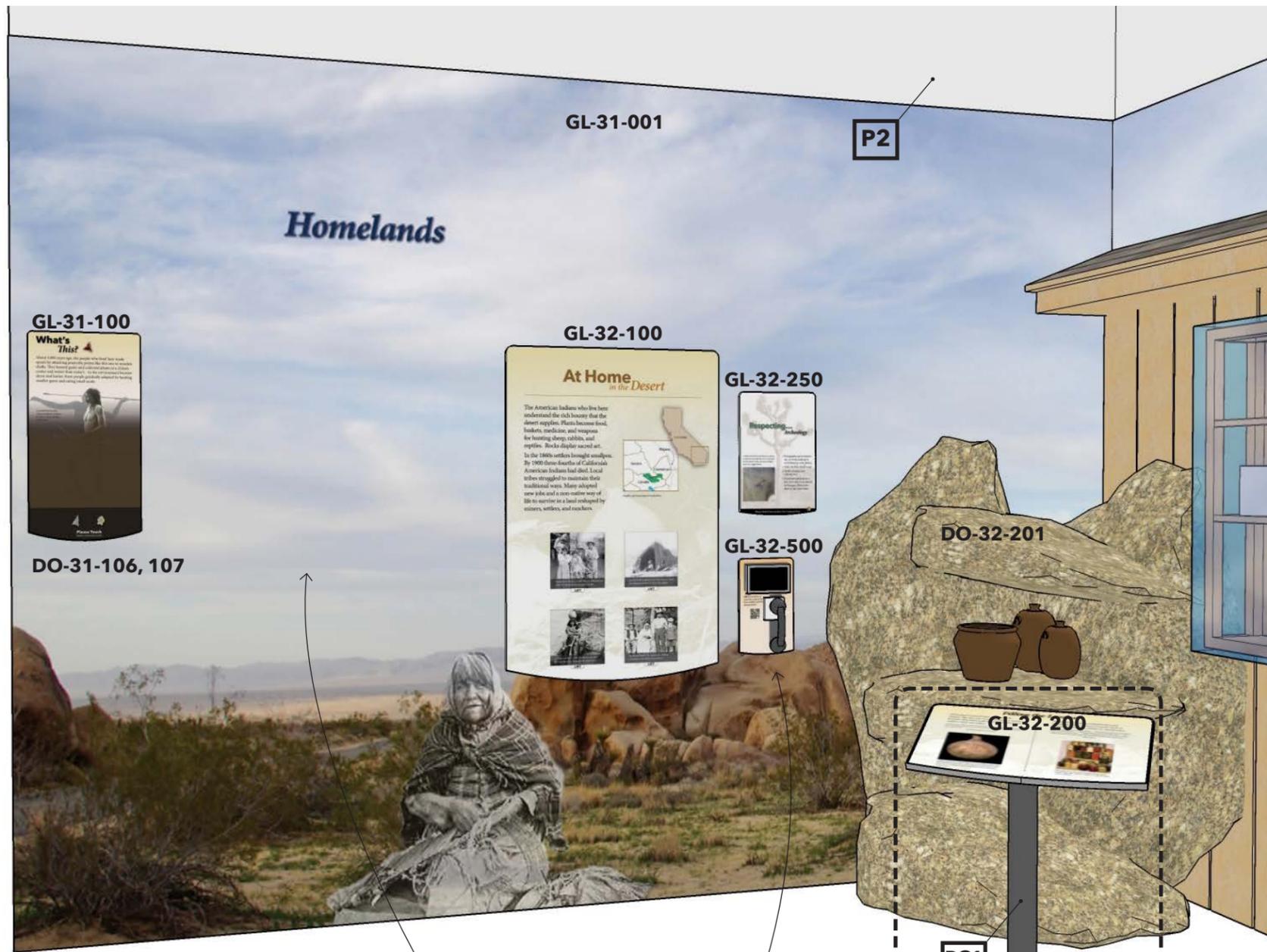
Describe the fossils found here and what they tell us about life in the past.

Visitor Experience

This exhibit highlights some of the fossils found in the alluvial fans of the Pinto Basin, and the animals that they represent. A graphic of a saber-toothed cat is shown on the patio doors. This pulls the paleontology mural from the patio into the exhibit space and encourages people to go out and explore the prehistoric artwork.

Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. The exhibition is audio described as a whole. Exhibit text will be high-contrast with the background.



All photographic murals shall be printed on Dreamscape/ Terralon printable wallcovering; all murals shall be mounted to a built-out surface that has been prepped per the manufacturer's recommendations

Audio equipment shall be mounted to a graphic panel with signal runs through the mural wall to Bright Sign player

Exhibit 31: What's This? (Archeology)

Purpose

To show the archeological finds related to the Pinto culture and describe the humans who lived here a long time ago.

Visitor Experience

This exhibit is a sidebar graphic adjacent to the patio doors that shows projectile points and other evidence related to the Pinto culture.

Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. Two tactile projectile points are mounted to the exhibit panel. The exhibition is audio described as a whole. Exhibit text will be high-contrast with the background.

Exhibit 32: Homelands

Purpose

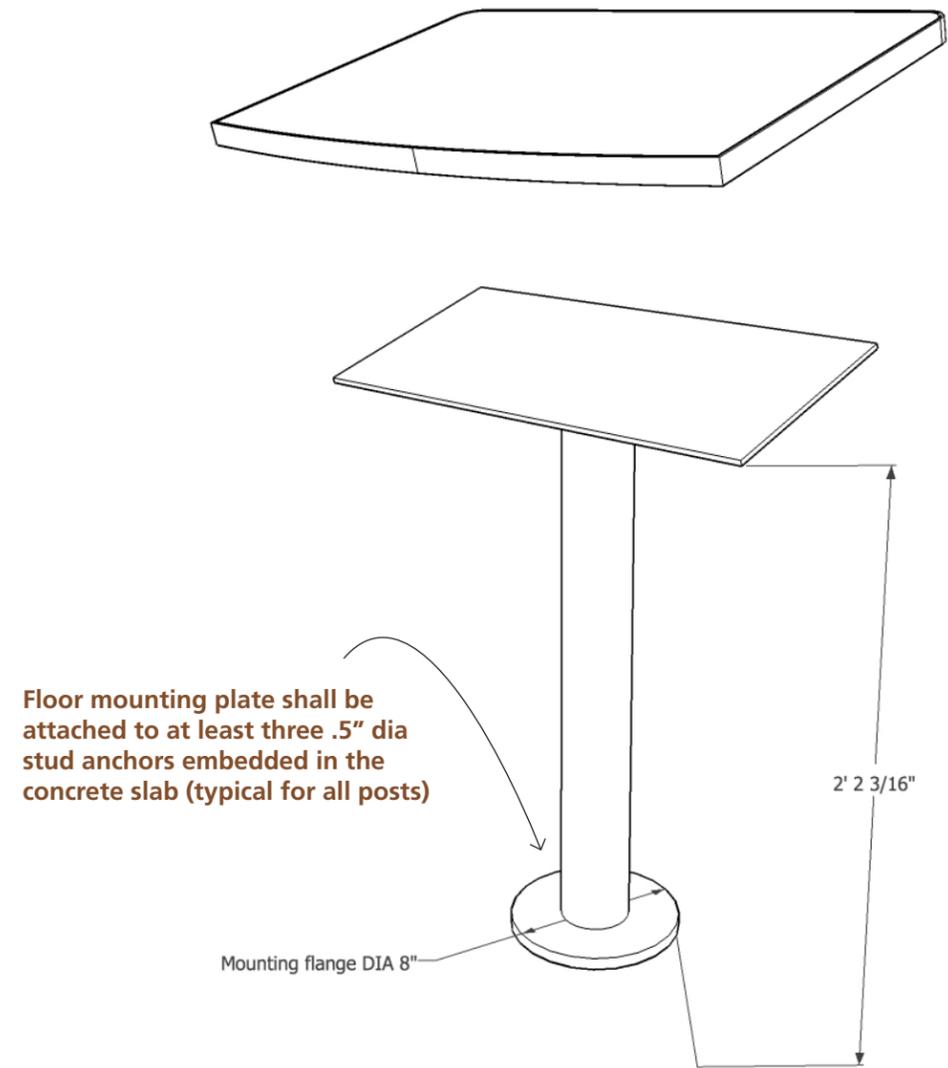
To describe the ingenuity of American Indians who used this land and evidence of their lives here.

Visitor Experience

This exhibit area shows how the Serrano, the Chemehuevi, the Cahuilla, and the Mojave valued the desert as their homelands. Visitors can also see historic photos of children to elders, as well as hear oral histories. Visitors view a fabricated rock ledge cache with reproduction baskets, ollas, stored grains, and a bedrock mortar.

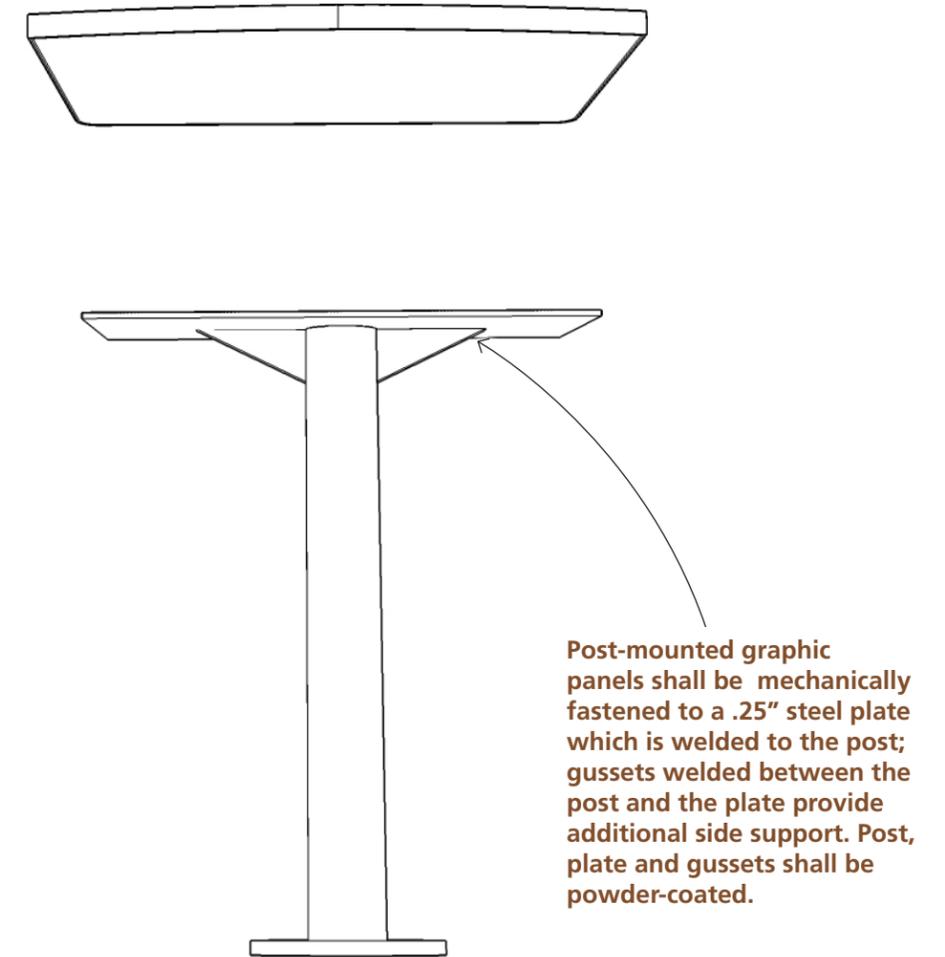
Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. Tactile objects like faux rocks, pottery, a basket, and a metate are included. Visitors can listen to oral interviews and the exhibition is audio described as a whole. Exhibit text will be high-contrast with the background.



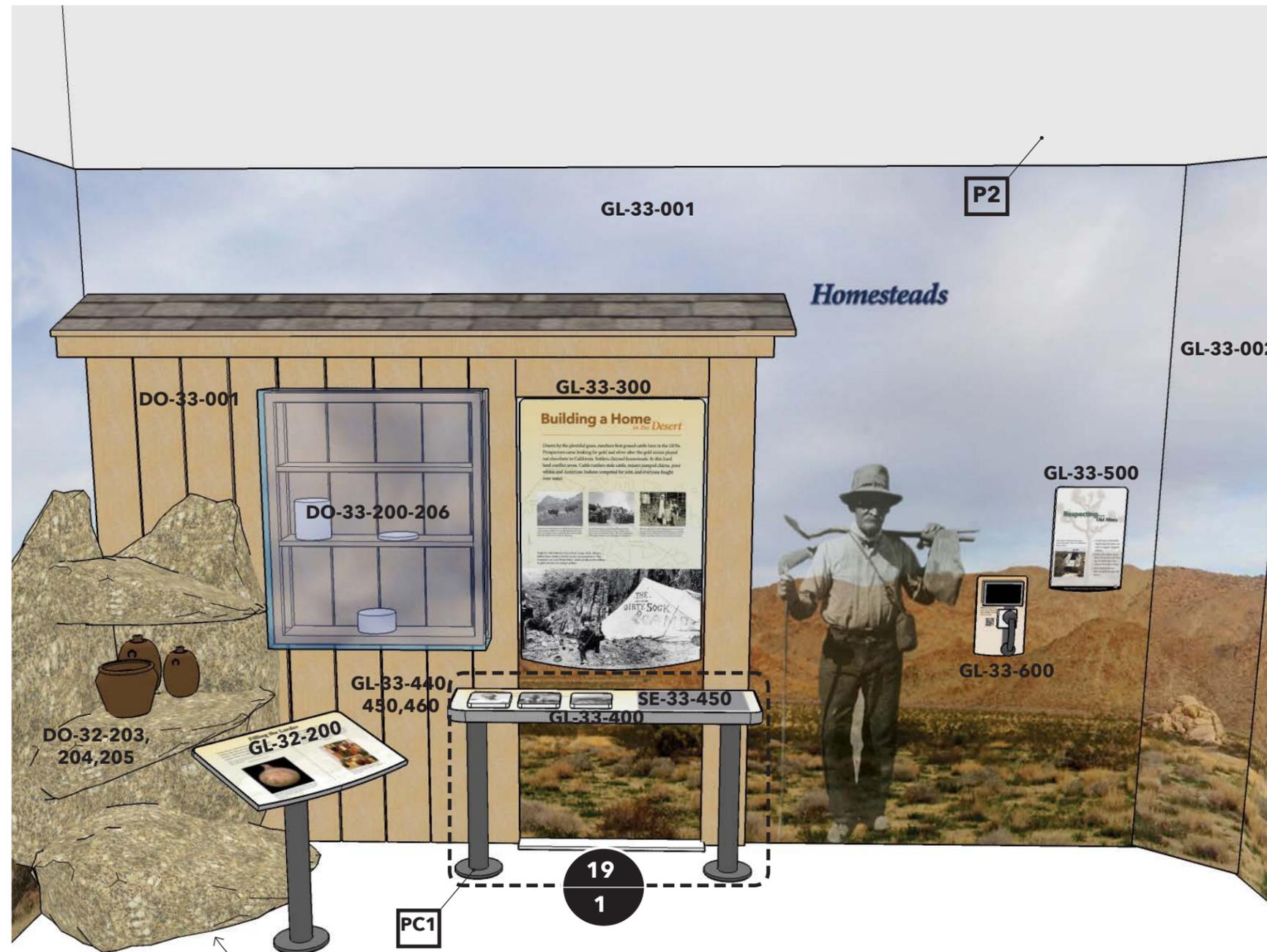
Ex. 32 Post-Mounted Graphic Panel / Detail 1

Not to scale



Ex. 32 Post-Mounted Graphic Panel/ Detail 2

Not to scale



Rock models and other tactile display objects shall be able to withstand sustained visitor contact; materials and color shall be durable and be able to withstand years of use without repair; where possible colors should be integral to the material.

Exhibit 33: And Homesteads

Purpose

To describe the ingenuity of miners, cattlemen, and homesteaders who used this land, evidence of their lives here, and resulting resource issues.

Visitor Experience

Visitors learn that people came to this area to search for gold, to graze cattle, build a home, and start a new life. In a low-tech interactive, photographs of Campbell, movie makers, and the military highlight other reasons for coming to the desert. A logbook encourages visitors to share their reasons for coming here.

A reproduction screened-in desert cooler shows food in containers like those used at Keys ranch. Oral histories of settlers, miners and cattlemen are also included here. Visitors will see photographs of an abandoned mine and learn about safety around old mines.

Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. Tactile surfaces like wood siding and burlap are included. Visitors can listen to oral interviews and the exhibition is audio described as a whole. A low tech interactive will engage tactile learners. Exhibit text will be high-contrast with the background.



Ex. 33 Reader Rail/ Detail 1

Not to scale



Exhibit 34: A Desert Refuge

Purpose

To describe why Minerva Hoyt was inspired by the desert and her role in the creation of the park and to identify the aspects of wilderness that are preserved here through the Wilderness Act.

Visitor Experience

Minerva Hoyt was inspired by the desert and, together with other conservationists, used her ingenuity to help preserve it. A graphic panel explains how these preservation pioneers helped to create Joshua Tree National Park.

Another graphic panel describes the benefits and responsibilities of the wilderness designation, including restrictions on certain recreational activities. The panel also explains that the wilderness designation preserves what people seek here: unspoiled nature and solitude.

Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. The exhibition is audio described as a whole. Exhibit text will be high-contrast with the background.



Exhibit 41: Inspiration

Exhibit 41: An Artistic Oasis

Purpose

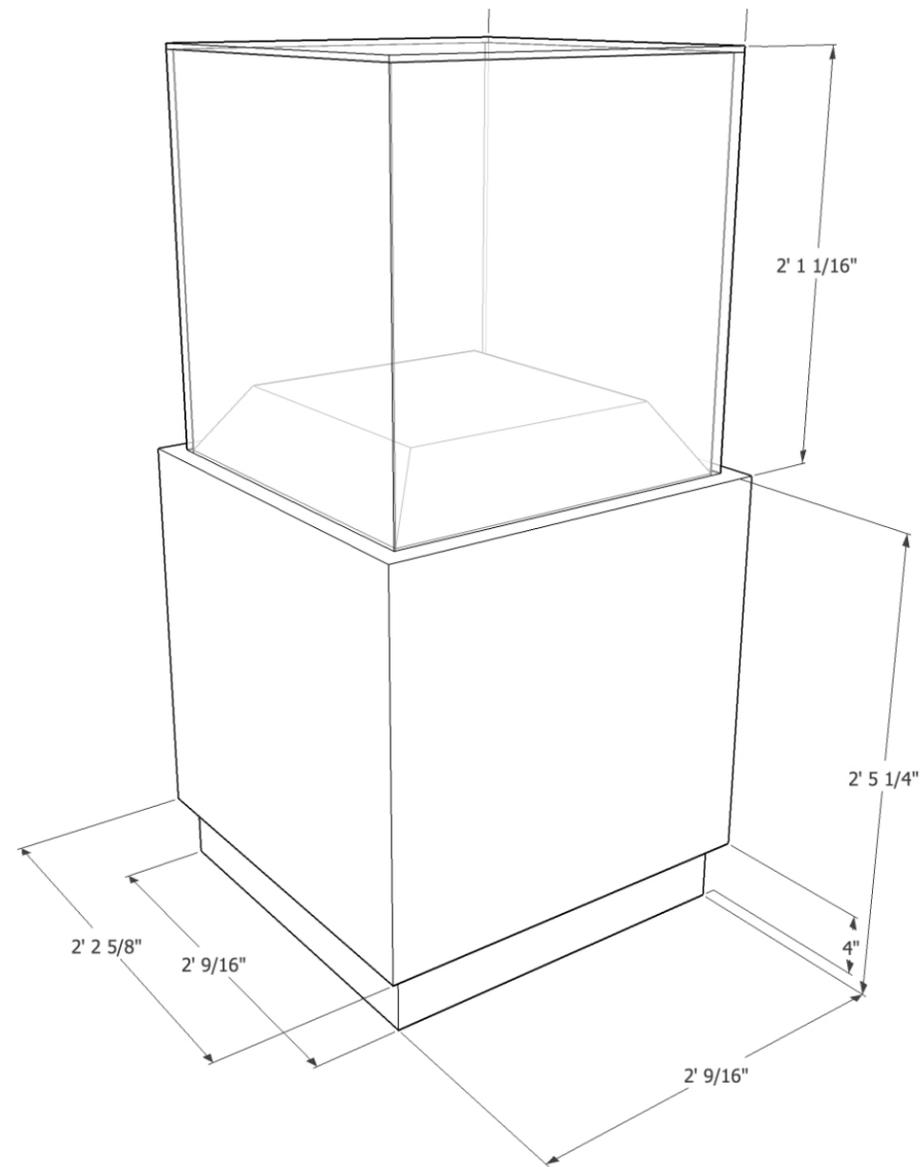
To encourage visitors to search out the beauty of this place and to share some of the music, art, and poetry inspired by the landscape at Joshua Tree.

Visitor Experience

Joshua Tree National Park has been an inspiration to many—and it continues to inspire creativity today. A beautiful sunset or night sky is the background. Photos show places where other people have been inspired by the landscape. Visitors can listen to park-inspired music or look at poetry, art, and photography in a flip book. Visitors are invited to email their writings and artwork to the park so they can be added to the park's website.

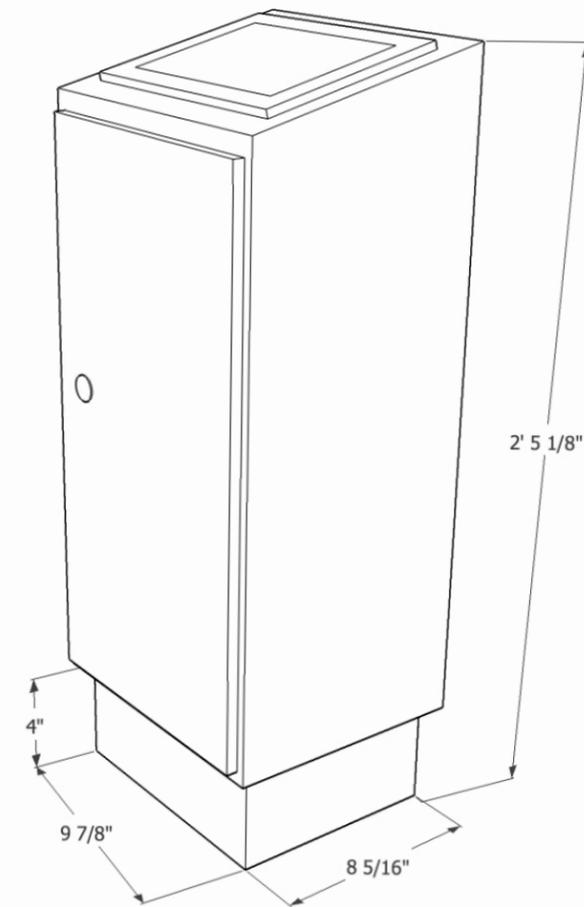
Universal Design

This large exhibit is in a fully accessible room. The large graphics will be well lit and easy to see. Visitors can listen to music and poetry and the exhibition is audio described as a whole. A low tech interactive will engage tactile learners. Exhibit text will be high-contrast with the background.



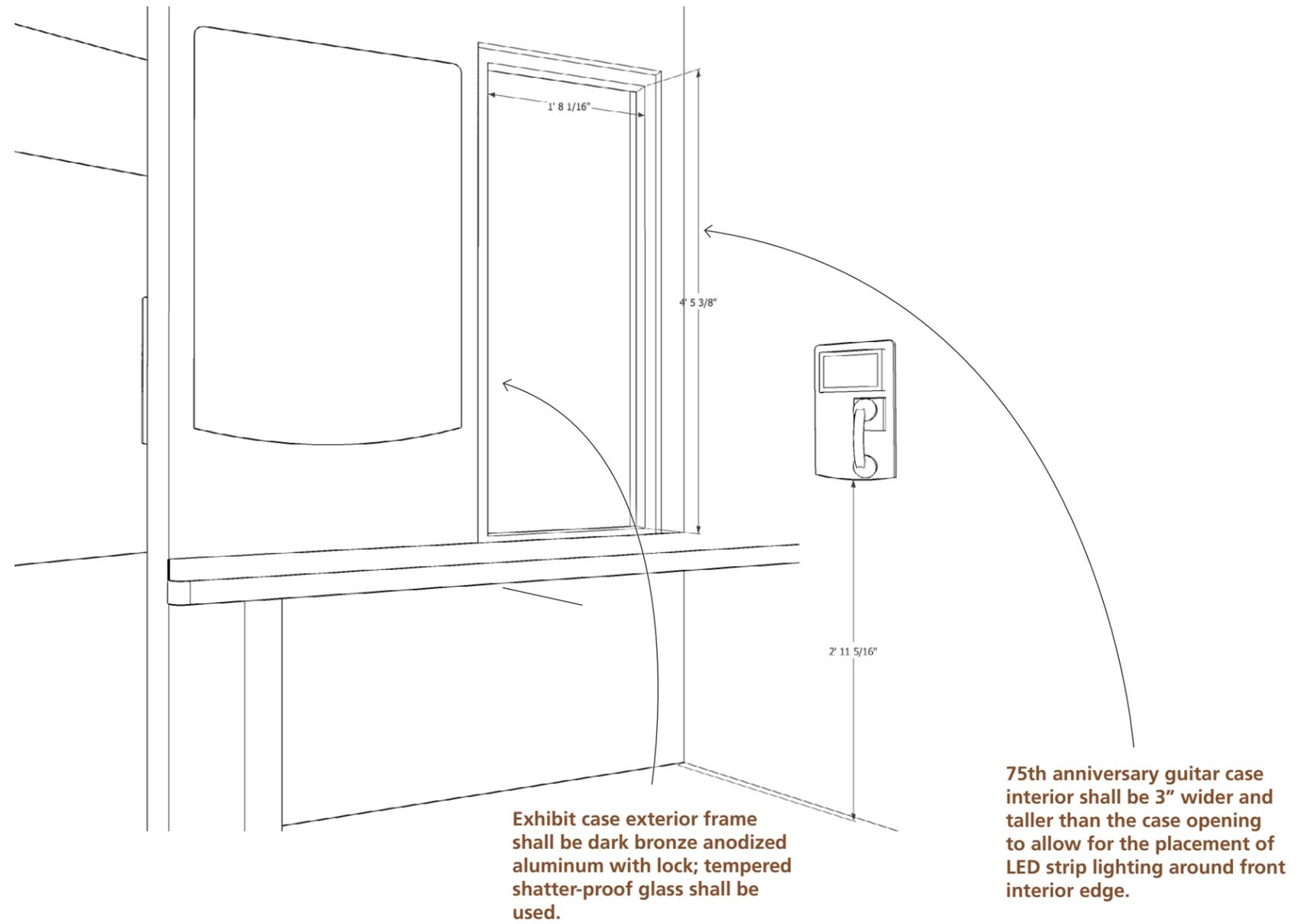
Ex. 41 Freestanding Exhibit Case / Detail 1

Not to scale



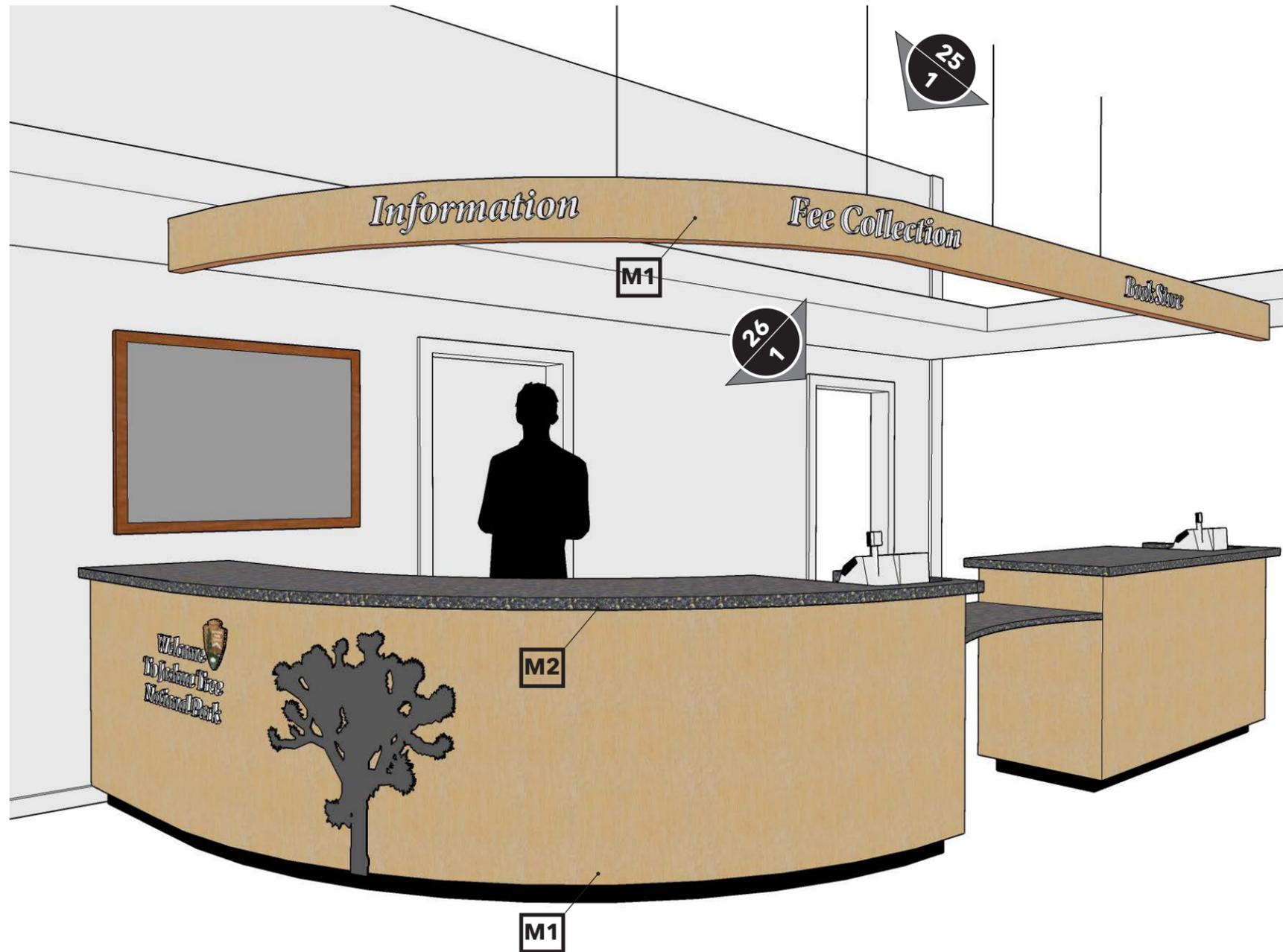
Ex. 41 iPad Pedestal and Cabinet/ Detail 2

Not to scale



Ex. 41 Guitar Case Dimensions | Detail 1

Not to scale



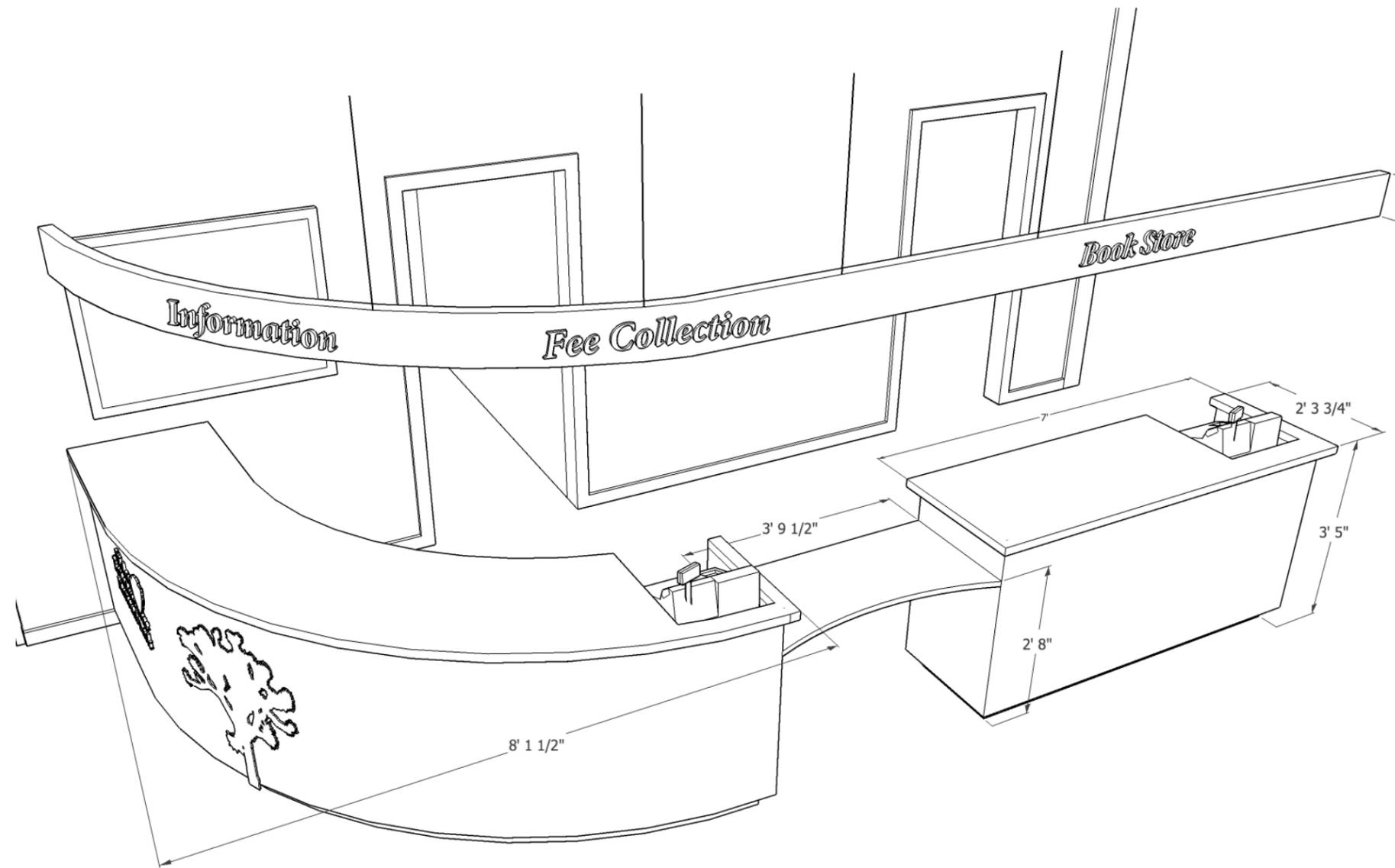
Visitor Desk

The desk will be J-shaped, in the same basic location, but moved slightly further from the door.

The information desk will include:

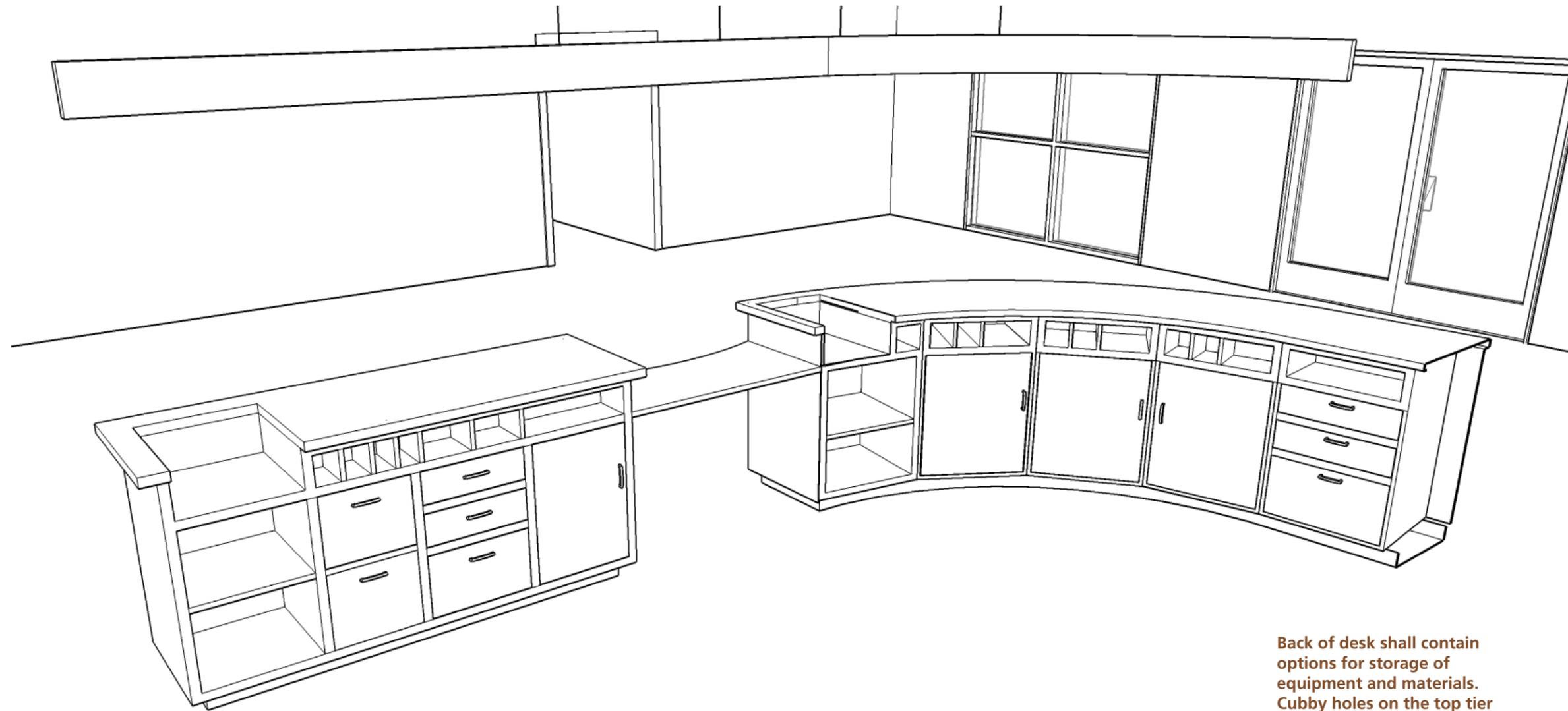
- Space for the back door to swing open and closed so staff can bring boxes in behind the desk and go directly to the office rooms,
- Two permanent registers,
- One additional temporary sales register that can be used 2-4 months of the year during busy times,
- Video monitor with iPad connectivity through Apple TV hardware,
- A low accessible section for both staff and visitors who use wheelchairs,
- An open path to get from one side of the desk to the other, with no door or flip counter,
- Space for four staff behind the desk (two rovers circulate in the exhibit area and patio),
- Counter space for filling out Association membership forms,
- Counter space for the Passport stamp towards the back of the desk,
- Lots of cubby holes,
- Space for one box of brochures and one box of newsletters under the desk,
- One file folder drawer,
- Cable runs for internet and electrical,
- Storage space for Junior Ranger badges and books, and
- Wayfinding that differentiates between the two registers.

There will not be a security monitor, open self-serve brochure racks, computer or phone on the desk.



Ex. 22 Desk Dimensioned View | Detail 1

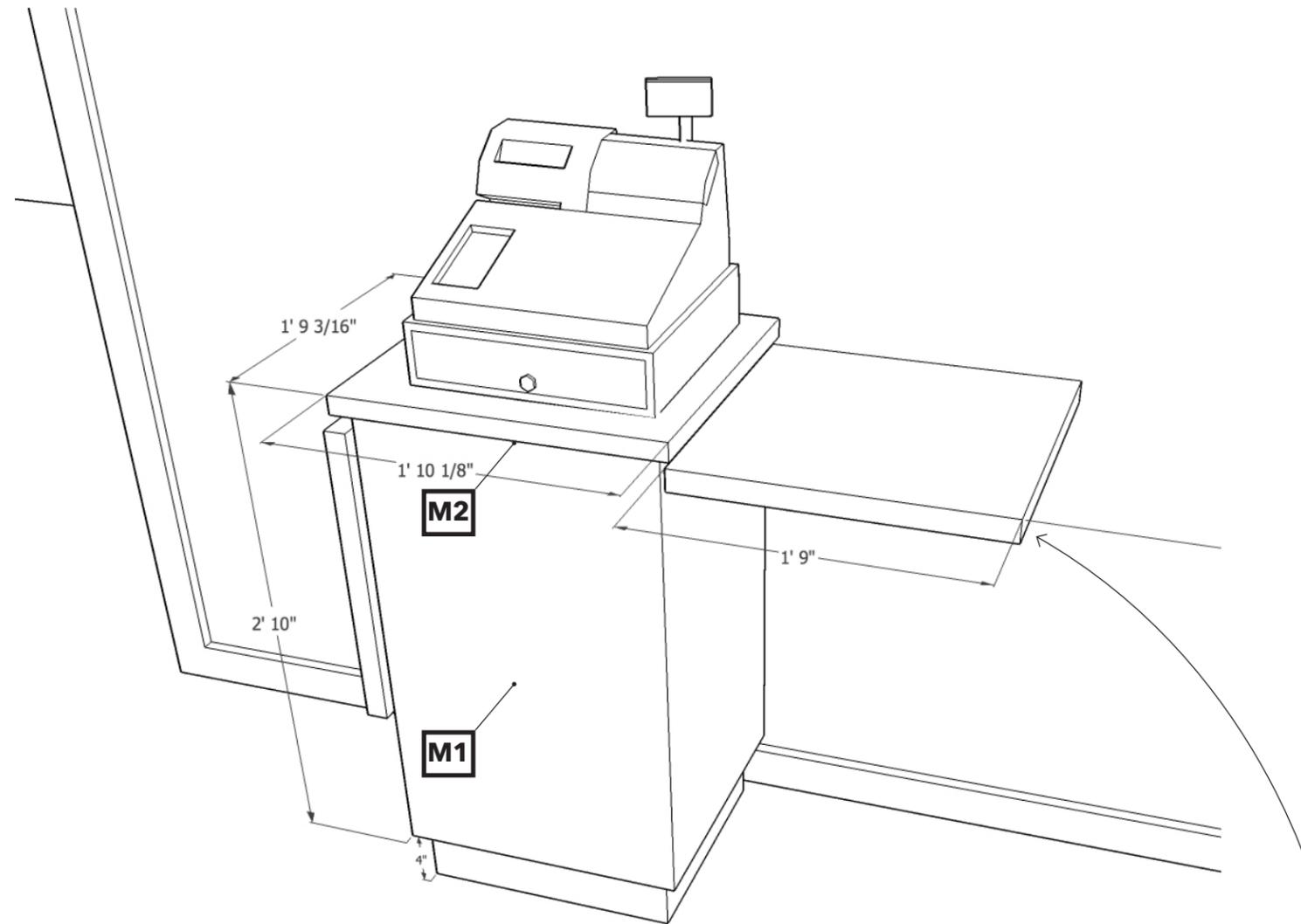
Not to scale



Back of desk shall contain options for storage of equipment and materials. Cubby holes on the top tier shall have slots for standard brochures and folded tabloid size documents (park newspaper); lower tiers have cabinets with optional shelves, shallow and deep drawers, and filing drawers.

Ex. 22 Desk View (rear) | Detail 1

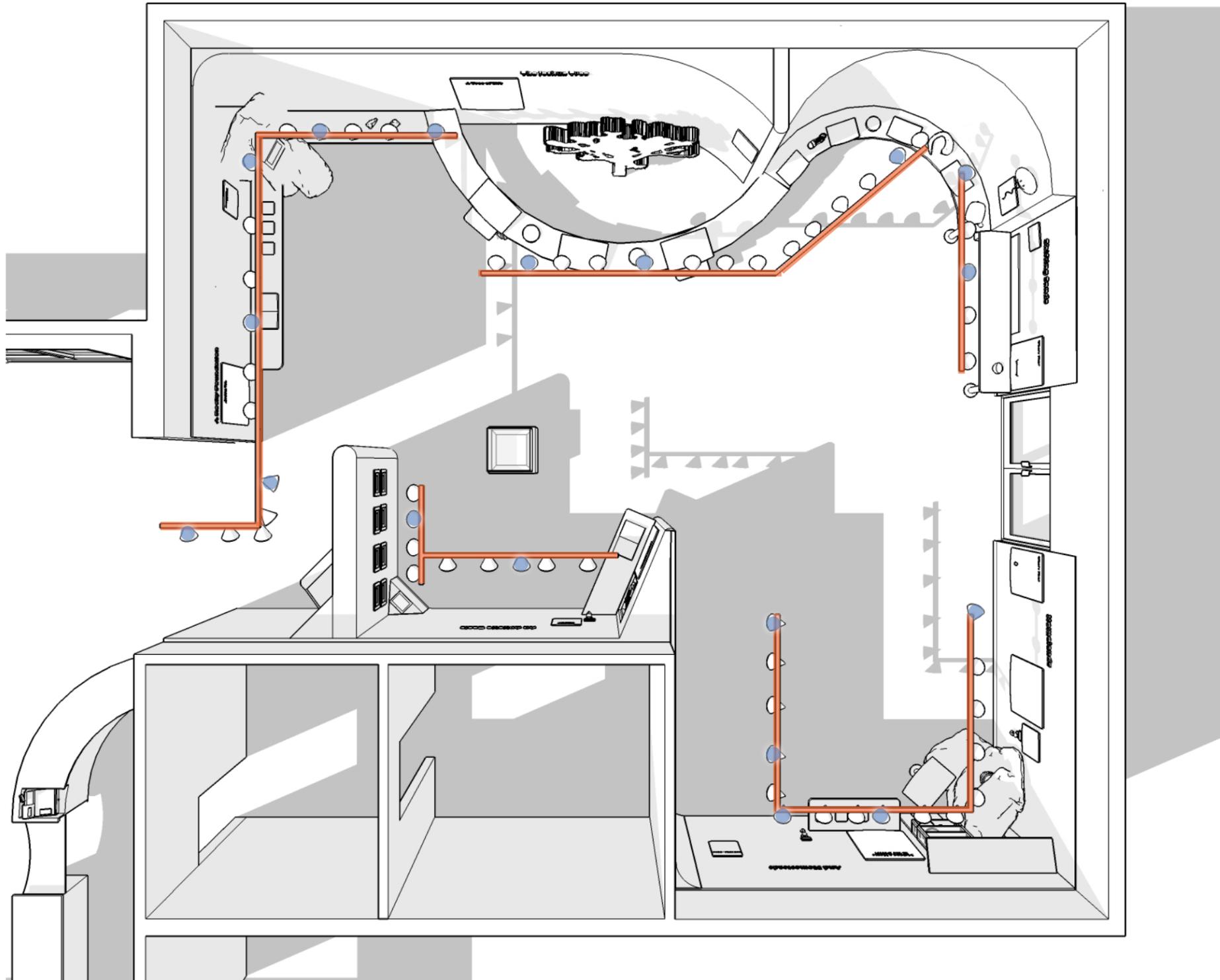
Not to scale



Seasonal cash register stand shall be mounted on lockable casters; wing-top extensions with locking hinge hardware shall fold down when not needed.

Ex. 50: Seasonal Register Stand / Dimensioned View 1

Not to scale



LSI Lumilex 2060 accent fixture



New track and LED fixtures will provide even lighting of the murals and accent lighting of objects and scenic elements. Lighting Services Inc. track and fixtures utilizing 50,000 hour LED modules will cut electrical usage by a minimum of 50% while significantly decreasing maintenance costs.

Note: final number and types of fixtures to be determined in Design Development II; park to provide wiring and junction boxes to the electrical feed end of track; track is to be ceiling mounted; fabricator to install track and fixtures

LSI Lumilex 2045 wall-wash fixture



● Blue dots on floor plan indicate a wall wash fixture, all others are accent fixtures.

At Home

Titles: *Avenir Next Bold* 180pt

Desert

Titles: *Minion Pro Bold Italic* 250pt

The Chemehuevi, the Serrano, and the

Primary Text: *Minion Pro Medium* 65pt

Before others claimed their lands, the Chemehuevi spent spring

Secondary Text: *Minion Pro Medium* 40pt

This Serrano girl is dressed for the 2013 annual powwow, a celebration of singing, dancing, and drumming.

Caption Text: *Minion Pro Medium* 24pt

Joshua Tree Visitor Center Design Development I Exhibit Budget

JOTR Visitor Center Exhibit Design Development II September 2014					
Section 1: Lobby Fabrication		\$	17,610.00		
Section 2: Main Exhibit Fabrication		\$	139,247.00		
Section 3: Other Costs (included in fab contract)		\$	120,662.35		
Total Fabrication Contract (Sections 1-3)		\$	277,519.35		
Section 4: Other Costs (not included in fab contract)		\$	57,800.00		
Contingency		\$	33,531.94		
Total Production and Installation Contract		\$	368,851.29		
Fabrication Contract (Sections 1,2,3)					
Section 1: Lobby Components Fabrication					
	Type (sizes approx)	Unit	Unit Cost	Total	
Information desk (base cost)	20'	1 each	\$ 7,000.00	\$ 7,000.00	
Information desk- Complex Features (50%)	curved, accessible	1 each	\$ 3,750.00	\$ 3,750.00	
Information desk- Upgraded Storage (25%)	cubbies, drawer, etc.	1 each	\$ 1,750.00	\$ 1,750.00	
Hanging sign, curved plywood	20'	1 each	\$ 250.00	\$ 250.00	
Dimensional Lettering		65 each	\$ 20.00	\$ 1,300.00	
Joshua Tree Cutout and NPS Arrowhead		2 each	\$ 250.00	\$ 500.00	
Rolling Cart for Register		1 each	\$ 500.00	\$ 500.00	
Rolling Cart- Corian surface and wings		4 lf	\$ 110.00	\$ 440.00	
Flat Screen Monitor and wall mount	50"	1 unit	\$ 1,500.00	\$ 1,500.00	
Apple TV		1 unit	\$ 120.00	\$ 120.00	
ipad 3G 32GB		1 each	\$ 500.00	\$ 500.00	
			Total Lobby Fabrication Cost	\$ 17,610.00	
Section 2: Main Exhibit Fabrication					
Exhibit 10- Enjoy... and be safe					
Original Landscape Photography	SEE SECTION 4 FOR COST		\$ -	\$ -	
Photo Mural- GL-10-001- Dreamscape	5'8"x10'	57 sf	\$ 20.00	\$ 1,140.00	
Photo Mural- GL-10-002- Dreamscape	2'6"x10'	25 sf	\$ 20.00	\$ 500.00	
Photo Mural- GL-10-003- Dreamscape	7'x10'	70 sf	\$ 20.00	\$ 1,400.00	
graphic panel- GL-10-100- Lamda on AL	2'3"x3'5"	8 sf	\$ 40.00	\$ 320.00	
Tactile Map- GL-10-105- Etched Metal	2' x 1.5'	3 sf	\$ 200.00	\$ 600.00	
Dimensional Lettering-	Custom Font	50 each	\$ 20.00	\$ 1,000.00	
Wall Construction	8x10, 2x10	100 sf	\$ 17.00	\$ 1,700.00	
Pedestal for Tactile Map		1 unit	\$ 750.00	\$ 750.00	
			Component Subtotal	\$ 7,410.00	
Exhibit 21- A Rocky Foundation					
Original Landscape Photography (geology)	SEE SECTION 4 FOR COST		\$ -	\$ -	
Photo Mural- GL-21-001- Dreamscape	14'6"x10'	145 sf	\$ 20.00	\$ 2,900.00	
Photo Mural- GL-21-002- Dreamscape	2'x10'	20 sf	\$ 20.00	\$ 400.00	
Photo Mural- GL-21-003- Dreamscape	23'6"x10'	235 sf	\$ 20.00	\$ 4,700.00	
Photo Mural Window Scrim	two 9'x7' windows	126 sf	\$ 20.00	\$ 2,520.00	
Reader Rail Structure #1 (NW)	9.5'	9.5 lf	\$ 200.00	\$ 1,900.00	
Reader Rails Graphics GL-21-200,NW	9'6"x1'2" DHPL	11 sf	\$ 50.00	\$ 550.00	
Reader Rail Structure #2 (EW)	7'	9.5 lf	\$ 200.00	\$ 1,900.00	
Reader Rails Graphics GL-21-400,EW	7'x1'2" DHPL	9 sf	\$ 50.00	\$ 450.00	
Tactile/Rock Samples	NPS will provide	2 unit	\$ -	\$ -	
Flipbook Interactive (GL-21-223,224,225)		3 each	\$ 200.00	\$ 600.00	
Original Map- Geology, faults, etc.	SEE SECTION 4 FOR COST		\$ -	\$ -	
large boulder model		1 each	\$ 6,000.00	\$ 6,000.00	
Computer Simulation (SILENT)	SEE SECTION 4 FOR COST		\$ -	\$ -	
A/V equipment (19" monitor, brightsign, powerstrip, push button)		1 each	\$ 2,500.00	\$ 2,500.00	

graphic panel- GL-21-100- Lamda on AL	2'8"x4'	11 sf	\$ 40.00	\$ 440.00	
graphic panel- GL-21-150- Lamda on AL	1'x1'6"	1.5 sf	\$ 40.00	\$ 60.00	
Dimensional Lettering- GL-21-105	Custom Font	25 each	\$ 20.00	\$ 500.00	
Wall Construction	2x10	20 sf	\$ 17.00	\$ 340.00	
			Component Subtotal	\$ 25,760.00	
22 The Joshua Tree					
Wall Construction curved (not painted)	7x10 curved	70 sf	\$ 16.00	\$ 1,120.00	
Custom toddler barrier, double 2" pipe	16 lf	16 lf	\$ 200.00	\$ 3,200.00	
Junior Ranger Base Cabinets w/ pullout shelf		2 Each	\$ 1,100.00	\$ 2,200.00	
Joshua Tree Model		1 each	\$ 25,000.00	\$ 25,000.00	
Floor Treatment to resemble desert floor		25 sf	\$ 200.00	\$ 5,000.00	
tortoise and other model for Joshua Tree		2 each	\$ 1,000.00	\$ 2,000.00	
Tree Cross Section	NPS will provide	2 each	\$ -	\$ -	
graphic panel- GL-22-100- Lamda on AL	3'x4'6"	13.5 sf	\$ 40.00	\$ 540.00	
graphic panel- GL-22-150- Lamda on AL	1'x1'6"	1.5 sf	\$ 40.00	\$ 60.00	
graphic panel- GL-22-210- dHPL	1'6"x1'2"	2 sf	\$ 50.00	\$ 100.00	
graphic panel- GL-22-220- dHPL	1'6"x1'2"	2 sf	\$ 50.00	\$ 100.00	
graphic panel- GL-22-230- dHPL	1'6"x1'2"	2 sf	\$ 50.00	\$ 100.00	
graphic panel- GL-22-240- dHPL	1'6"x1'2"	2 sf	\$ 50.00	\$ 100.00	
Reader Rail Mounts for GL-22-210-240		4 each	\$ 200.00	\$ 800.00	
graphic panel- GL-22-300- dHPL	1'6"x1'	1.5 sf	\$ 50.00	\$ 75.00	
graphic panel- GL-22-350- dHPL	1'6"x1'	1.5 sf	\$ 50.00	\$ 75.00	
			Component Subtotal	\$ 40,470.00	
23 High up in the Mojave COMBINED WITH					
24 Migration					
25 Low in the Colorado					
Wall Construction (curved, not painted)	15'x10'	150 sf	\$ 16.00	\$ 2,400.00	
Reader Rails with upgrade finish	15 lf	15 lf	\$ 300.00	\$ 4,500.00	
Original Map (wildlife corridor)	SEE SECTION 4 FOR COST		\$ -	\$ -	
Original illustrations	NPS will provide		3 each	\$ -	
Tactile Boot and Low-tech Interactive		1 unit	\$ 1,200.00	\$ 1,200.00	
Tactile Models (desert tortoise)		1 Each	\$ 2,000.00	\$ 2,000.00	
Tactile Models (desert bighorn sheep horn)		1 Each	\$ 1,000.00	\$ 1,000.00	
Fur specimen		1	\$ 200.00	\$ 200.00	
Balloon		1 each	\$ 200.00	\$ 200.00	
Photo Mural- GL-23-100- Dreamscape	15'2"x7'8"	117 sf	\$ 20.00	\$ 2,340.00	
graphic panel- GL-25-250- Lamda on AL	1'x1'6"	1.5 sf	\$ 40.00	\$ 60.00	
graphic panel- GL-23-200- dHPL	1'6"x1'2"	2 sf	\$ 50.00	\$ 100.00	
graphic panel- GL-24-200 dHPL	1'6"x1'2"	2 sf	\$ 50.00	\$ 100.00	
graphic panel- GL-24-250- dHPL	1'6"x1'2"	2 sf	\$ 50.00	\$ 100.00	
graphic panel- GL-25-200- dHPL	1'6"x1'2"	2 sf	\$ 50.00	\$ 100.00	
			Component Subtotal	\$ 14,300.00	
26-27 Shifting Sands & Paleontology					
Original Landscape Photography	SEE SECTION 4 FOR COST		\$ -	\$ -	
Photo Mural- GL-26-000- Dreamscape	7'8"x7'8"	59 sf	\$ 20.00	\$ 1,180.00	
Reader Rails	7.7 lf	7.7 lf	\$ 200.00	\$ 1,540.00	
Repro Fossils (2)	SEE SECTION 4 FOR COST		\$ -	\$ -	
Window Decal/Prehistoric Animal	6x3	18 sf	\$ 20.00	\$ 360.00	
Dimensional Lettering	Custom Font	20 each	\$ 25.00	\$ 500.00	
graphic panel- GL-26-300 dHPL	7' 8" x 1'2"	9.2 sf	\$ 50.00	\$ 460.00	
graphic panel- GL-27-100- dHPL	1'2"x2'	2.5 sf	\$ 50.00	\$ 125.00	
graphic panel- GL-27-200- dHPL	1'2"x7'8"	9 sf	\$ 50.00	\$ 450.00	
			Component Subtotal	\$ 4,615.00	
Exhibit 31-32 People and Resources					

Joshua Tree Vistor Center Design Development I Exhibit Budget

31- What's this? (archeology)					
32 From Homelands					
Original Landscape Photography w/effects	SEE SECTION 4 FOR COST		\$	-	\$ -
Large Rock model	1	each	\$	5,000.00	\$ 5,000.00
Repro Cache items (basket, pots)	3	Each	\$	800.00	\$ 2,400.00
Repro Artifacts (projectile points)	1	each	\$	400.00	\$ 400.00
A/V Program Production (interviews)	SEE SECTION 4 FOR COST		\$	-	\$ -
A/V Equipment (caption screen, handset, media player)	1	each	\$	1,500.00	\$ 1,500.00
Rock Cache Steel base/pedestal	1	unit	\$	750.00	\$ 750.00
Photo Mural- GL-32-001- Dreamscape	13'8"x10"	137	sf	\$ 20.00	\$ 2,740.00
graphic panel- GL-31-100- Lamda on AL	1'2"x2'	2.5	sf	\$ 40.00	\$ 100.00
graphic panel- GL-32-100- Lamda on AL	2'8"x4'	10.8	sf	\$ 40.00	\$ 432.00
graphic panel- GL-32-250- Lamda on AL	1'x1'2"	1.5	sf	\$ 40.00	\$ 60.00
graphic panel- GL-32-200- Lamda on AL	8.5"x14"	1	sf	\$ 40.00	\$ 40.00
graphic panel- GL-32-500- DHPL	2'2"x1'6"	1.5	sf	\$ 40.00	\$ 60.00
Component Subtotal			\$	13,482.00	
33 And Homesteads					
Original Landscape Photography w/effects	SEE SECTION 4 FOR COST		\$	-	\$ -
Reader Rails	4 lf	4	lf	\$ 200.00	\$ 800.00
A/V Program Production (oral history)	SEE SECTION 4 FOR COST		\$	-	\$ -
A/V Equipment (headset screen, media player)	1	each	\$	1,500.00	\$ 1,500.00
low-tech Interactive	1	each	\$	1,000.00	\$ 1,000.00
Repro food safe with plexi/acrylic covering	1	Each	\$	1,500.00	\$ 1,500.00
Repro-Retro items for food safe	1	unit	\$	800.00	\$ 800.00
shack walls and roof vignette	7'x8'	56	sf	\$ 25.00	\$ 1,400.00
Photo Mural- GL-33-001- Dreamscape	15'6"x10'	155	sf	\$ 20.00	\$ 3,100.00
Photo Mural- GL-33-002- Dreamscape	18'x10'	180	sf	\$ 20.00	\$ 3,600.00
graphic panel- GL-33-400 dHPL	4'x1'2"	5	sf	\$ 50.00	\$ 250.00
graphic panel- GL-33-300- Lamda on AL	2'8"x4'	11	sf	\$ 40.00	\$ 440.00
Flip Door Interactive (GL-33-440,450,460)		3	each	\$ 200.00	\$ 600.00
graphic panel- GL-33-600- Lamda on AL	8.5"x14"	1	sf	\$ 40.00	\$ 40.00
graphic panel- GL-33-500- dHPL	1'x1'6"	1.5	sf	\$ 50.00	\$ 75.00
Component Subtotal			\$	15,105.00	
34 A Desert Refuge					
Original Landscape Photography w/effects	SEE SECTION 4 FOR COST		\$	-	\$ -
Wall Construction (painted on one side)	5x10	30	sf	\$ 16.00	\$ 480.00
Photo Mural- GL-34-001- Dreamscape	13'7"x10"	136	sf	\$ 20.00	\$ 2,720.00
graphic panel- GL-34-100- Lamda on AL	2'8"x4'	11	sf	\$ 40.00	\$ 440.00
graphic panel- GL-34-200- Lamda on AL	2'8"x4'	11	sf	\$ 40.00	\$ 440.00
graphic panel- GL-34-250- Lamda on AL	1'x1'6"	1.5	sf	\$ 40.00	\$ 60.00
Component Subtotal			\$	4,140.00	
Exhibit 41- An Artistic Oasis					
Original Landscape Photography	SEE SECTION 4 FOR COST		\$	-	\$ -
Reader Rails	6 lf	6	lf	\$ 200.00	\$ 1,200.00
Flipbook Interactive (GL-41-601-610)		1	unit	\$ 800.00	\$ 800.00
A/V Program Production (art interview/info)	SEE SECTION 4 FOR COST		\$	-	\$ -
A/V Equipment (headset, monitor, media player)	1	each	\$	1,500.00	\$ 1,500.00
75th guitar	NPS will provide		\$	-	\$ -
Original AIR Art	NPS will provide		TBD	Each	\$ -
Ipad		1	each	\$ 500.00	\$ 500.00
Ipad pedestal/stand		1	each	\$ 400.00	\$ 400.00
Ipad interactive program		1	job	\$ 2,500.00	\$ 2,500.00
Acrylic vitrine and base		1	unit	\$ 4,000.00	\$ 4,000.00
Photo Mural- GL-41-300- Dreamscape	9'2"x10"	92	sf	\$ 20.00	\$ 1,840.00

graphic panel- GL-41-100- Lamda on AL	2'8"x4'	11	sf	\$ 40.00	\$ 440.00
graphic panel- GL-41-200- Lamda on AL	2'x5'	10	sf	\$ 40.00	\$ 400.00
graphic panel- GL-41-250- Lamda on AL	1'x1'6"	1.5	sf	\$ 40.00	\$ 60.00
graphic panel- GL-41-150- dHPL	5'6"x1'2"	6.5	sf	\$ 50.00	\$ 325.00
Component Subtotal				\$	13,965.00
Total Main Exhibit Fabrication Cost				\$	139,247.00
SECTION 3: Additional Costs (INCLUDED IN FABRICATION CONTRACT)					
Fabrication Drawings, Samples, Mock-ups		1	unit	\$ 10,000.00	\$ 10,000.00
Installation	5 people x 10 days	400	hours	\$ 60.00	\$ 24,000.00
Travel (pre-fabrication and Installation)		1	Each	\$ 10,000.00	\$ 10,000.00
Shipping		5%	Of	\$ 139,247.00	\$ 6,962.35
Photo Use Rights and Art Management		1	unit	\$ 8,000.00	\$ 8,000.00
Crown Moulding		120	lf	\$ 10.00	\$ 1,200.00
Lighting and electrical equipment		1	Each	\$ 22,500.00	\$ 22,500.00
Audio Description Production (script only)		1	Each	\$ 14,000.00	\$ 14,000.00
Project Management (contractor)		1	job	\$ 24,000.00	\$ 24,000.00
Total Section 3 Additional Cost				\$	120,662.35
NET PRODUCTION CONTRACT COST				\$	277,519.35
SECTION 4: Additional Costs (NOT INCLUDED IN FABRICATION CONTRACT)					
Cartography		1	job	\$ 7,500	\$ 7,500
Original Landscape Photography: Ex. 10,21,22,26,27,31,32,33,34,41		1	job	\$ 12,000.00	\$ 12,000.00
Computer Simulation (SILENT)	Exhibit 21	1	each	\$ 22,500.00	\$ 22,500.00
Repro Fossils	Ex. 26-27	2	each	\$ 400.00	\$ 800.00
A/V Program Production (interviews)	Ex. 31-32	1	each	\$ 2,500.00	\$ 2,500.00
Original Landscape Photo w/ B&W superimposed	Ex. 33	1	each	\$ 2,000.00	\$ 2,000.00
A/V Program Production (oral history)	Ex. 33	1	each	\$ 2,500.00	\$ 2,500.00
A/V Program Production (art interview/info)	Ex. 41	1	each	\$ 8,000.00	\$ 8,000.00
Total Section 4 Additional Cost				\$	57,800.00
NET PRODUCTION AND INSTALLATION COST				\$	335,319.35
Production and Installation Contingency			10%	of Net Production Cost	\$ 335,319.35 \$ 33,531.94
TOTAL PRODUCTION AND INSTALLATION				\$	368,851.29