

MARCH FIELD AIR MUSEUM

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Landscape Design 7, Spring 2020
June 10, 2020



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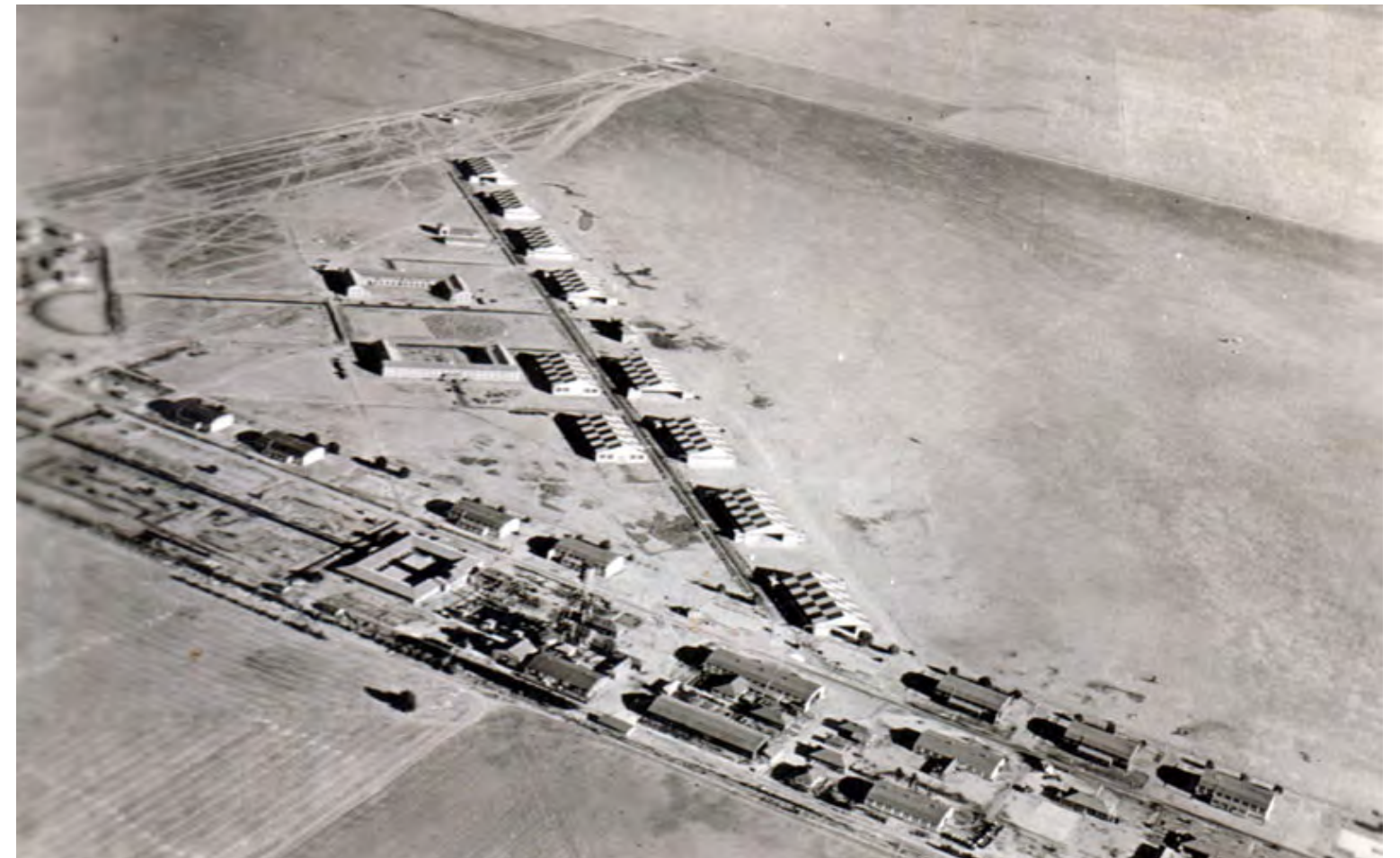
7 References

8 Presentation Boards

Established in **1980**, the *March Field Air Museum* displays one of the **largest collections of military aircraft** on the West Coast. The *March Field Air Museum* celebrates the history of *March Air Force Base*, named in honor of Second Lieutenant Peyton C. March, Jr., son of the Army Chief of Staff, located in Riverside, California. At the height of its activity, *March Air Force Base* supported 85,000 troops for **training and operations** uses. For over 70 years, *March Air Force Base* was a key element in the **advance of aviation and growth of the modern Air Force**.



Source: <https://www.pinterest.com/pin/544091198703370029/>



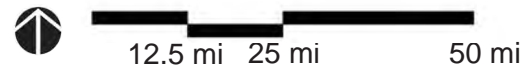
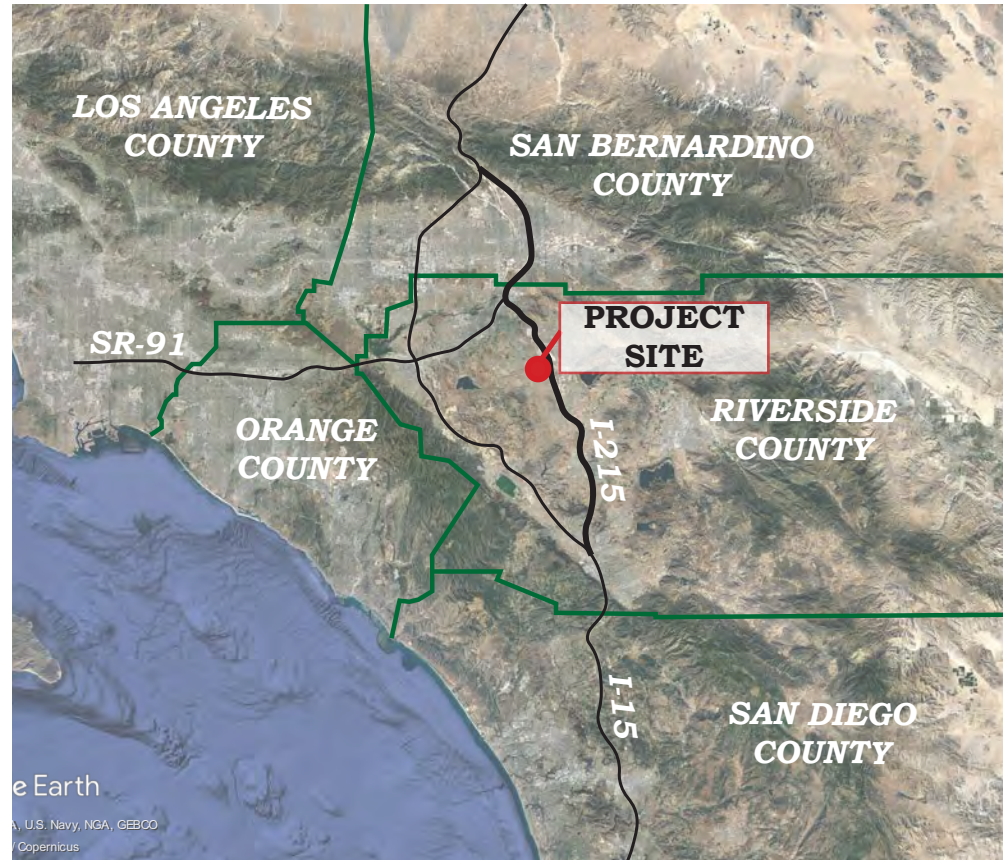
Source: <http://www.militarymuseum.org/MarchAFB.html>

“It’s important to capture the essence of our past and to portray and illustrate the history of March Field.” said Major Brian Daly, the museum’s first director.

INTRODUCTION



LOCATION - VICINITY



- Located in City of Riverside, Riverside County
- Accessed via I-215
- Accessible by surrounding 4 Counties
- **Surrounded by:**
 - New Development
 - Mixed-Use Zones
 - Historical Monuments of Honor



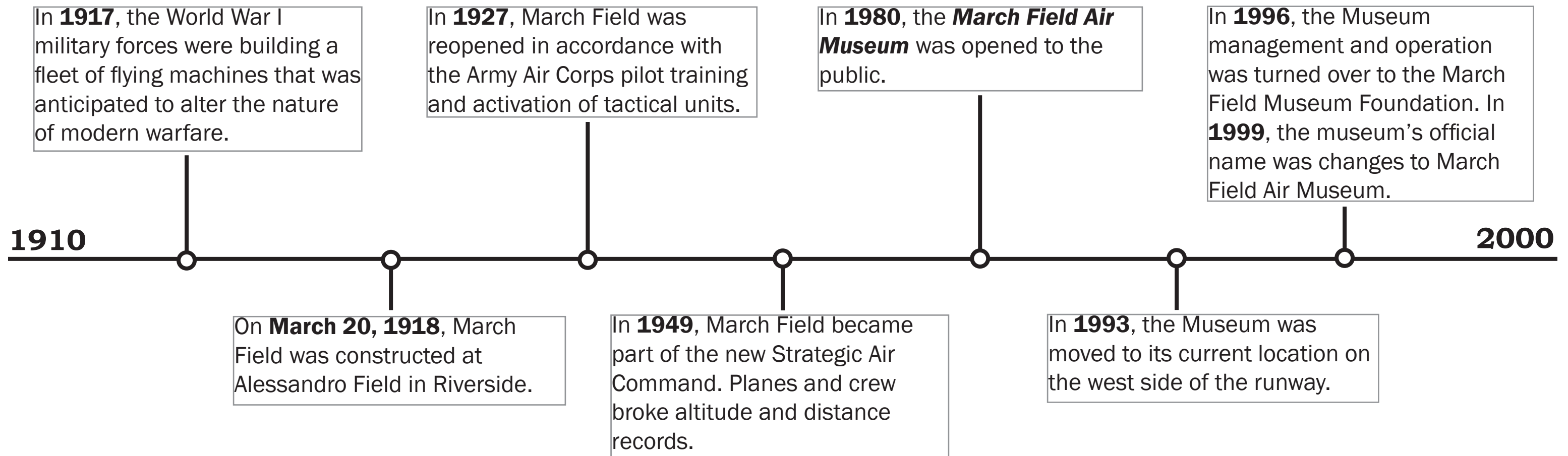
PROJECT SITE
MARCH FIELD AIR MUSEUM

SIZE
APPROXIMATELY 40 ACRES

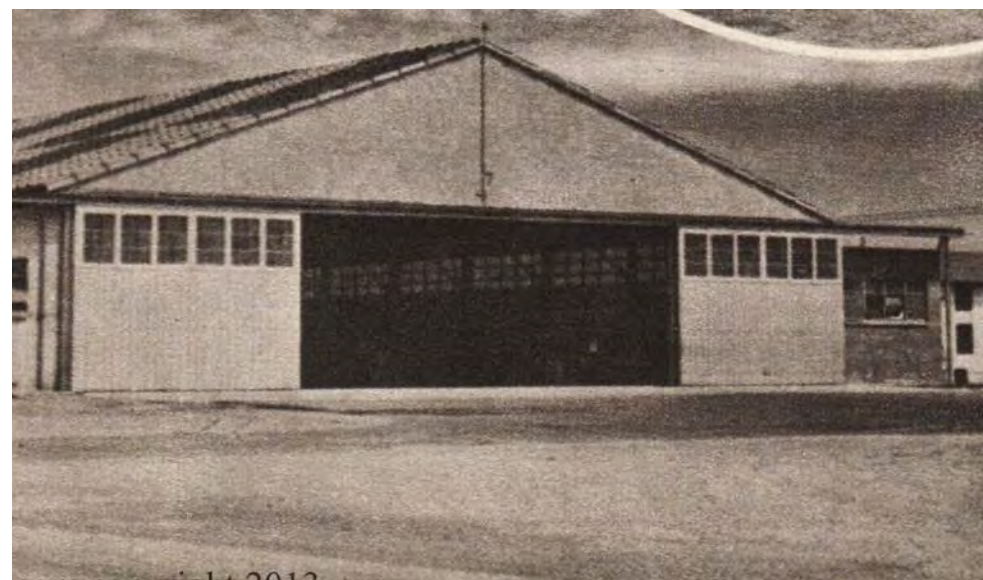
LOCATION
22550 VAN BUREN BLVD
RIVERSIDE, RIVERSIDE COUNTY, CA

OWNERSHIP
MARCH FIELD MUSEUM FOUNDATION

HISTORY



Source: <http://www.militarymuseum.org/A%20Camera%20Trip%20Through%20March%20Field.pdf>



Source: <http://www.militarymuseum.org/A%20Camera%20Trip%20Through%20March%20Field.pdf>



Source: <https://www.marchfield.org/visit/about-us/museum-history/>

PROJECT PURPOSE

PROJECT STATEMENT

- To **Enhance** the Visitor's *Experience, Awareness, and Understanding* of the Significant History and Importance of the Site itself, as well as the Air Force's Vital Role in our Country's Defenses
- To **Develop** a Master Plan as a Graphic Example of the *Vision of the Museum*, as well as *Enhance Funding Opportunities* for Future Projects
- To **Solve** Site Planning and Program Challenges with a Master Plan that *Meets the Needs* for Attracting Visitors of All Ages

PROJECT GOALS

- **Attract** visitors of all ages
- **Create** flexible exhibit and event space
- **Increase** shade opportunities
- **Design** interactive and interesting exhibits
- **Use** climate-adapt plants



Source: <https://www.flickr.com/photos/rickwashere/with/31475865077/>

PRECEDENTS



AVIATION MUSEUMS

PIMA AIR & SPACE MUSEUM
TUSCON, ARIZONA

NATIONAL MUSEUM OF THE UNITED STATES
AIR FORCE
WRIGHT-PATTERSON AFB, OHIO

RED BULL HANGAR-7
SALZBURG, AUSTRIA



Source: <https://pimaair.org/>

MEMORIAL

VETERANS MEMORIAL PARK
ALEXANDRIA, MINNESOTA



Source: <https://alexveteranspark.org/the-park>

DESERT GARDEN

DESERT BOTANICAL GARDEN
PHOENIX, ARIZONA



PIMA AIR & SPACE MUSEUM

TUSCON, ARIZONA



- Largest non-government funded aviation museum in the US
- 80 acres of outdoor displaces and 250,000 square feet inside hangars²
- **Design constraint:** heat and accessibility
- **Design solution:** shuttle, concrete and dirt paths; however, no shade structures outdoors

PATHWAYS



No designated paths; open movement; intimate and close connections to aircrafts and exhibits.

TRANSPORTATION



Covered shuttle for shade, accessibility, and group tours.

AMENITIES



Viewing aircrafts through large windows while indoors.

EVENTS



Interior lighting and open floor concept for multiple programmed space.

ENTRY



Large, bold sign and entrance space clear for gathering groups prior to entry.

WAYFINDING



Entrance includes large sign, tall flag pole, art structures, gates, and planting.

NATIONAL MUSEUM OF THE UNITED STATES AIR FORCE WRIGHT-PATTERSON AFB, OHIO



- Oldest and largest military aviation museum in the world
- 17 acres of indoor display space, and outdoor display space for larger aircrafts
- **Design success:** provides programs and exhibits for all ages; indoor lighting; display organization

PATHWAYS



Source: <https://www.nationalmuseum.af.mil/>
Planted designated path; directional, ordered, and geometric; created rooms for aircrafts.

SIGNAGE



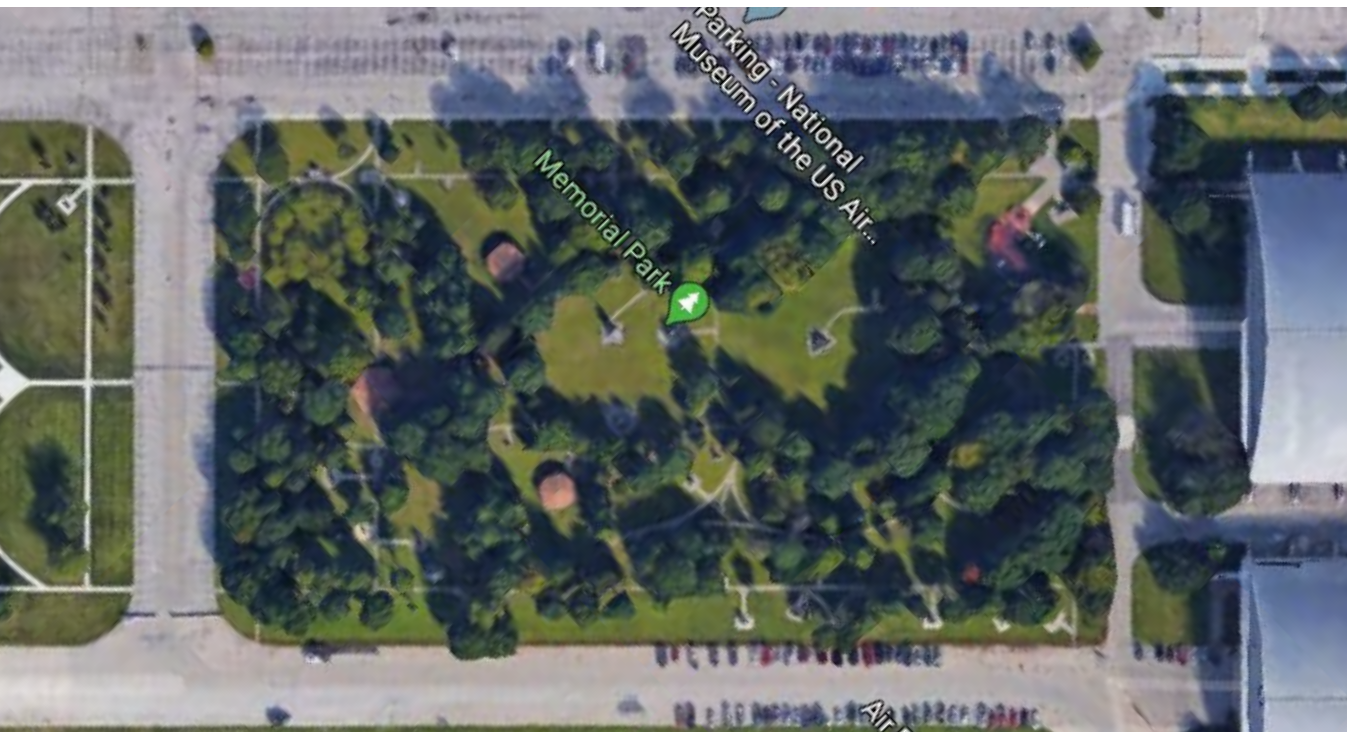
Source: <https://www.nationalmuseum.af.mil/>
Large, clearly marked location and wayfinding.

EXHIBITS



Source: <https://www.nationalmuseum.af.mil/>
Indoor display arrangement; organized but densely packed; flat area for convenient navigation.

GARDENS



Source: <https://www.google.com/maps>
Memorial garden green space for honor and tribute.

AVIATION PRECEDENTS

RED BULL HANGAR-7 SALZBURG, AUSTRIA



- Owned by Red Bull founder and billionaire Dietrick Mateschitz
- Steel and glass architecture creates open, weightless structure home of the Flying Bulls collection
- Design success:** exhibit designed for day and night visits and events; impressive unobstructed mountain panorama view

STRUCTURE



Source: <https://www.hangar-7.com/en/>

Steel and glass structure encloses and highlights the space; use of light, transparency, and reflective materials.

EXHIBITS



Source: <https://www.zinkpower.com/en/red-bull-hangar.html#gref>

One material platform; accessible; creates one room for all aircrafts.

VIEWS



Source: <https://www.hangar-7.com/en/>

Architectural statement using the views of the mountains for iconic location.

PATHWAYS



Source: <https://www.hangar-7.com/en/>

Bridge to platform for overlooking view of the exhibits and event space.

AMENITIES



Source: https://www.tripadvisor.com.ph/LocationPhotoDirectLink-g190441-d1143342-i52599661-Restaurant_Ikarus-Salzburg_Austrian_Alps.html

Dining options with open patio seating for viewing exhibits and aircrafts.

VETERANS MEMORIAL PARK

ALEXANDRIA, MINNESOTA



- Proposed project at existing park
- Aims to add 7,000 names of local veterans to tablets
- **Design success:** large and small spaces; use of materials; proportions of monuments; flow of circulation

MEMORIAL PRECEDENTS

STRUCTURES



Source: <https://alexveteranspark.org/the-park>

Shade structures used as part of memorial walls; provides accessibility and intimate spaces.

SPACES



Source: <https://alexveteranspark.org/the-park>

Consistency in materials, colors, and textures; proportions and scale of monuments; multiple uses for monuments.

AERIAL VIEW



Source: <https://alexveteranspark.org/the-park>

Aerial view of pavement design; hierarchy of flag poles and walls; wide pathways; shared experiences; seating for pause and reflection.

DESERT GARDEN PRECEDENTS

DESERT BOTANICAL GARDEN

PHOENIX, ARIZONA



- 140-acre botanical garden
- 50,000+ plant displays
- **Design success:** hot, dry location with climate-adapt plants; use of structures and canopy for shade; embraces the beauty of the desert

STRUCTURES



Shade structures provides shelter and creates an intimate space with a transparent ceiling.

PATHWAYS



Pathways leading to views; desert plants of a variety of colors, forms, and sizes.

TREES



Tree canopy as successful climate control; contrast of green plants and desert land colors.

SEATING

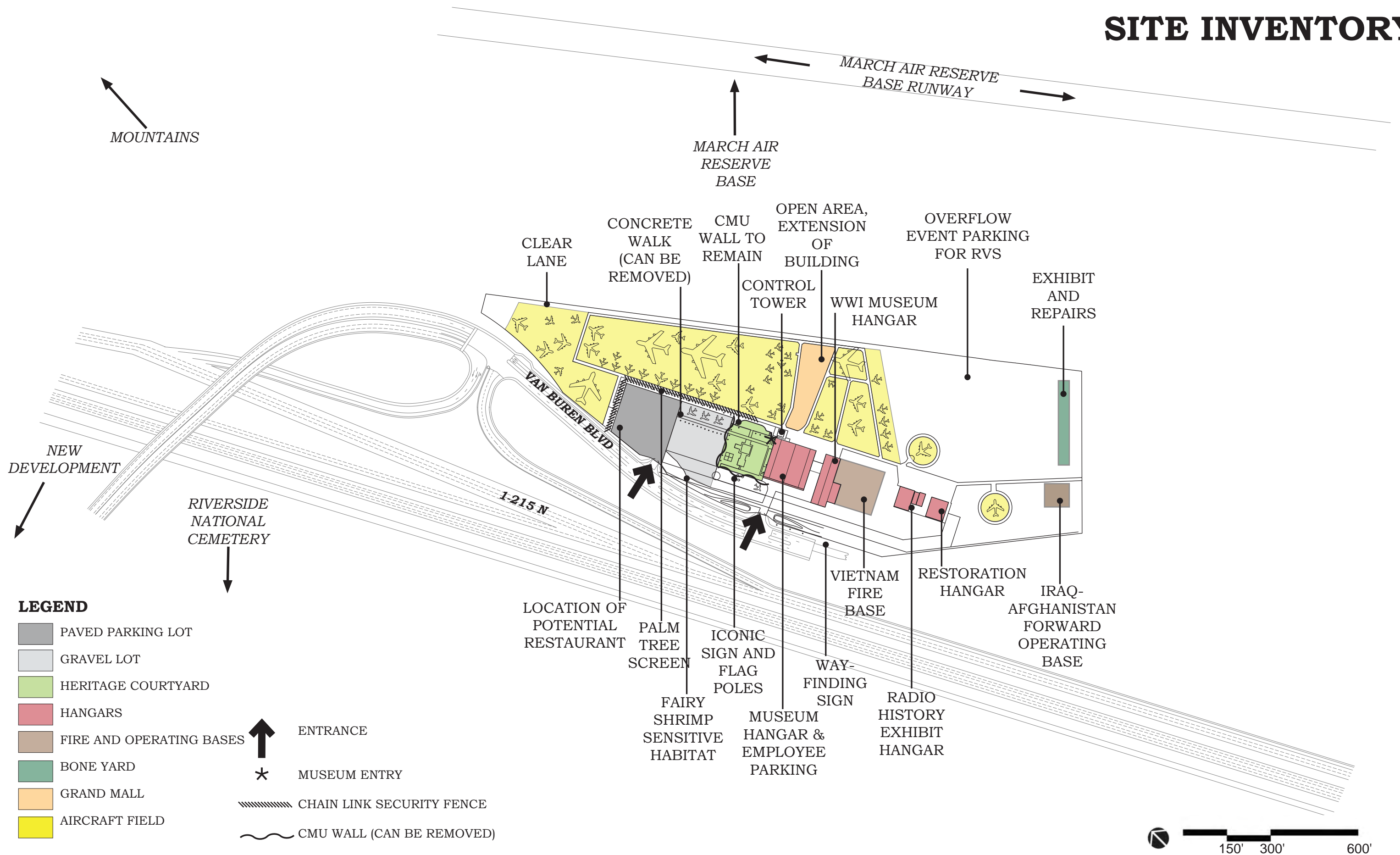


Walls and materials used for seating, and creates rooms for intimate small spaces.

SITE INVENTORY & ANALYSIS



SITE INVENTORY



EXHIBITS

HERITAGE COURTYARD



HANGARS



HERITAGE
COURTYARD

MUSEUM
HANGAR

PROJECT SITE
BOUNDARY



WWI MUSEUM
HANGAR

RADIO HISTORY
EXHIBIT
HANGAR

RESTORATION
HANGAR



63' 125' 250'

Source: <https://www.marchfield.org/visit/>

EXHIBITS

VIETNAM FIRE BASE ROMEO CHARLIE



Source: <https://charliecompany.org/2019/03/01/what-is-a-firebase/>

IRAQ-AFGHANISTAN FORWARD OPERATING BASE



Source: <https://militarybases.com/overseas/afghanistan/fob-delaram/>

PACIFIC THEATER



Source: <https://www.pbs.org/wgbh/americanexperience/features/pacific-war-pacific-1944-1945/>

VIETNAM FIRE
BASE ROMEO
CHARLIE

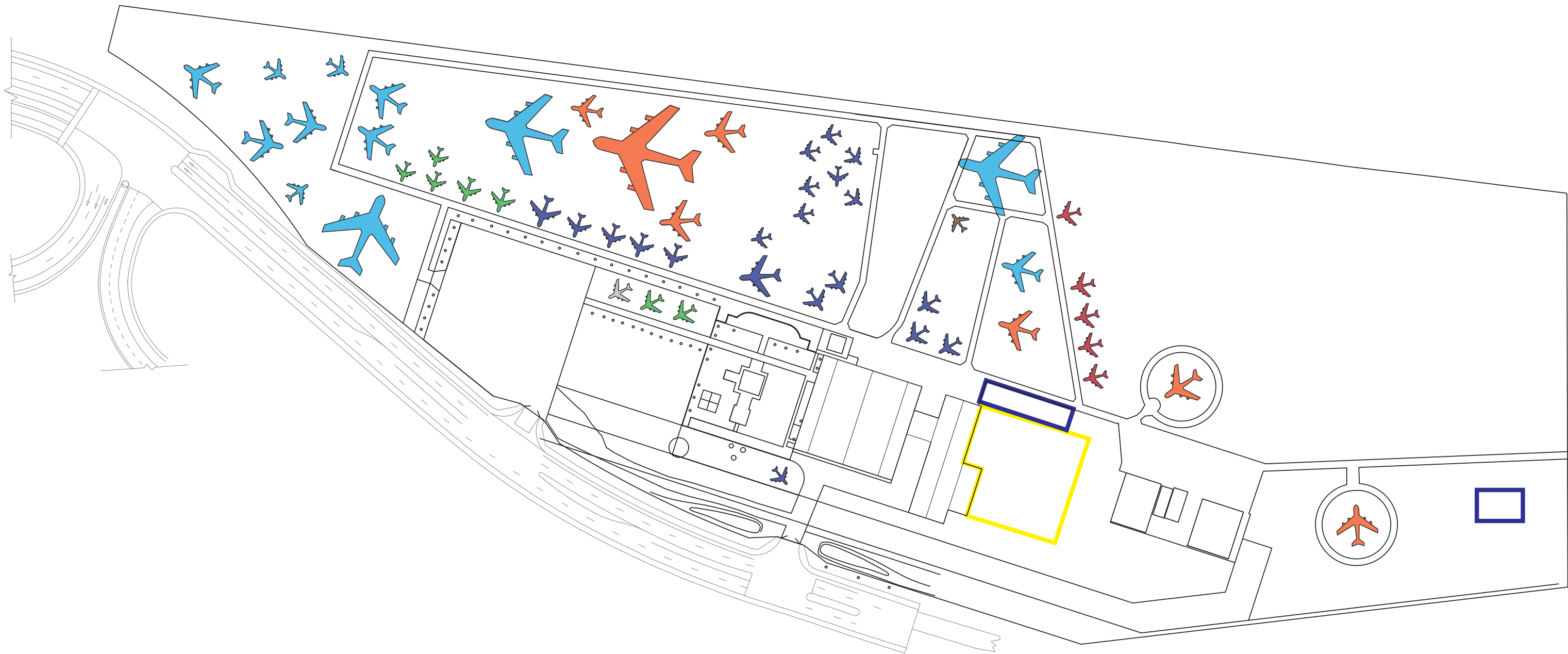






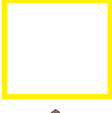




PROJECT SITE
BOUNDARY

IRAQ-
AFGHANISTAN
FORWARD
OPERATING BASE

PACIFIC
THEATER

AIRCRAFTS BY TYPE



- | | | | | | |
|------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|-----------------------|
|  | ATTACK/FIGHTER/
INTERCEPTOR/CENTURY
SERIES |  | DRONES/MISSILES |  | SOVIET BLOCK AIRCRAFT |
|  | BOMBERS |  | HELICOPTERS |  | TRAINING AIRCRAFT |
|  | CARGO/REFUELING/UTILITY |  | OBSERVATION |  | VEHICLES |



AIRCRAFTS



ATTACK/FIGHTER/ INTERCEPTOR/CENTURY SERIES



- Designated by the letter A and F.
- Attack aircraft fly at low altitudes amid heavy anti-aircraft fire to deliver precision strikes.



BOMBERS



- Designated by the letter B.
- Role is to destroy varied targets as varied within the enemy's homeland.



CARGO/REFUELING/UTILITY



- Designated by the letter C.
- Often called transports, carry payloads of supplies and personnel.



DRONES/MISSILES



- Designated by the letter D.
- High-speed, high-altitude unmanned aircraft.



HELICOPTERS



- Divided into sub-categories; UH, AH, CH, OH, HH, and SH
- Rotary wing aircraft for both military and civilian roles.



OBSERVATION



- Designated by the letter O.
- Aircrafts used for surveillance and reconnaissance.



SOVIET BLOCK AIRCRAFT



- Designated by the letter SU.
- Soviet Air Force aircrafts.



TRAINING AIRCRAFT



- Designated by the letter T.
- Aviation special aircraft have been selected to teach aspiring airmen.



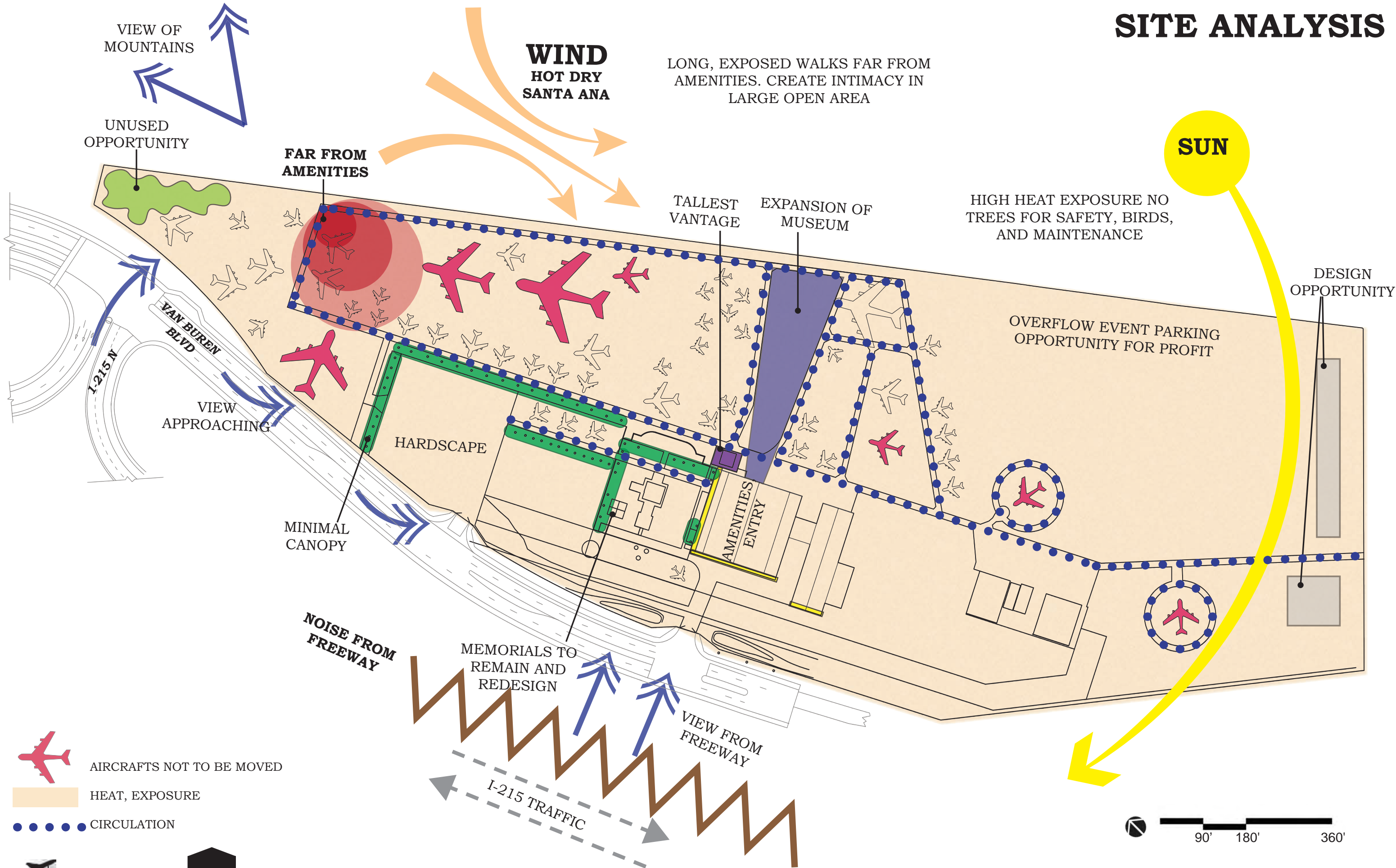
VEHICLES



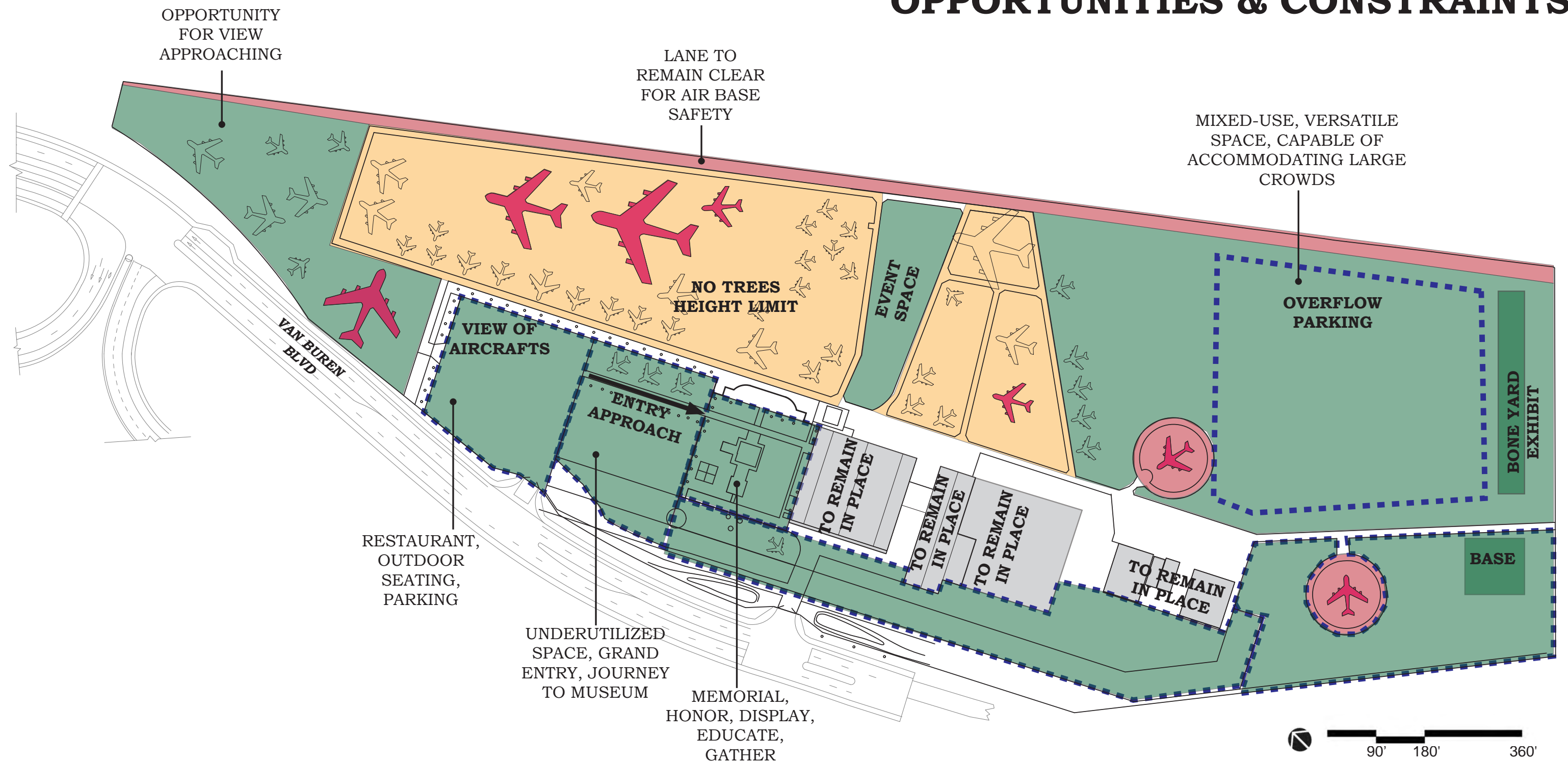
- Utility vehicles used to transport personnel and supplies, and firefighting operations.

World War II • Cold War • Korean War • Vietnam War • Iraq-Afghanistan

SITE ANALYSIS



OPPORTUNITIES & CONSTRAINTS



AIRCRAFTS NOT TO BE MOVED



OPPORTUNITIES



DESIGN AREAS WITH CONSTRAINTS



DESIGN AREAS WITH RESTRICTIONS

OPPORTUNITIES

- Large, open space
- Unique aircrafts and exhibits
- Many vantage points, close contact options
- Creation of a journey and experience

CONSTRAINTS

- Immovable aircrafts
- Height restrictions
- No trees, no birds
- Heat, wind, dust
- Design for security

PROGRAM ELEMENTS



PROGRAM & OBJECTIVES

PROGRAM

- 2 Fire Bases
- Expansion of Heritage Courtyard
- Grand Mall
- Dedication Space for 5 Star Gen. Hap Arnold
- Overflow Parking Adaptive Reuse
- Existing Parking Lot Redesign
- Formal Viewing Area for Air Shows
- Shaded Viewing Area for Exhibits
- Grand Entrance
- Use of Sustainable Materials

OBJECTIVES

- To **Honor** and Remember Veterans
- To **Design** Reflective Spaces
- To **Provide** Close Contact
- To **Educate** the Public and Stimulate Memories of Veterans
- To **Inspire** Exploration and Evoke Remembrance
- To **Create** an Experience and Journey with Intimacy and Accuracy Like No Other



PROJECT ELEMENTS

HERITAGE COURTYARD

RAISED SPACES



Source: <https://www.charlestoncitypaper.com/charleston/a-year-after-deferral-still-no-movement-on-calhoun-monument-plaque/Content?oid=27211041>



Source: <https://legacywalk.fsu.edu/locations/memorial-garden/>

EDUCATIONAL AMPHITHEATER



Source: <https://www.pinterest.com/pin/343540277808588192/>



Source: <https://www.usafe.af.mil/News/Article-Display/Article/1513704/us-iceland-remember-wwii-heroes-with-monument-dedication/>



Source: <https://www.bostonherald.com/2011/09/06/local-design-firm-created-memorial-garden/>



Source: <https://botanicalgarden.berkeley.edu/rentals-redwood-grove>

PROJECT ELEMENTS

CHILDREN’S PLAY AREA

BUILDING PLAY



Source: <https://www.sfgate.com/bayarea/article/Off-leash-play-area-for-kids-2607345.php#photo-2094729>

EDUCATIONAL PLAY



Source: <https://www.nationalmuseum.af.mil/Upcoming/Photos/igphoto/2002108223/>

TRAINING PLAY



Source: <https://www.theguardian.com/cities/2019/may/21/how-can-we-get-our-children-playing-outside-again>



Source: <https://www.parents.com/fun/activities/outdoor/how-you-can-turn-your-backyard-into-an-adventure-playground/>



Source: <https://www.ptleader.com/stories/volcano-rockets-cricket-part-of-science-fair,5897>

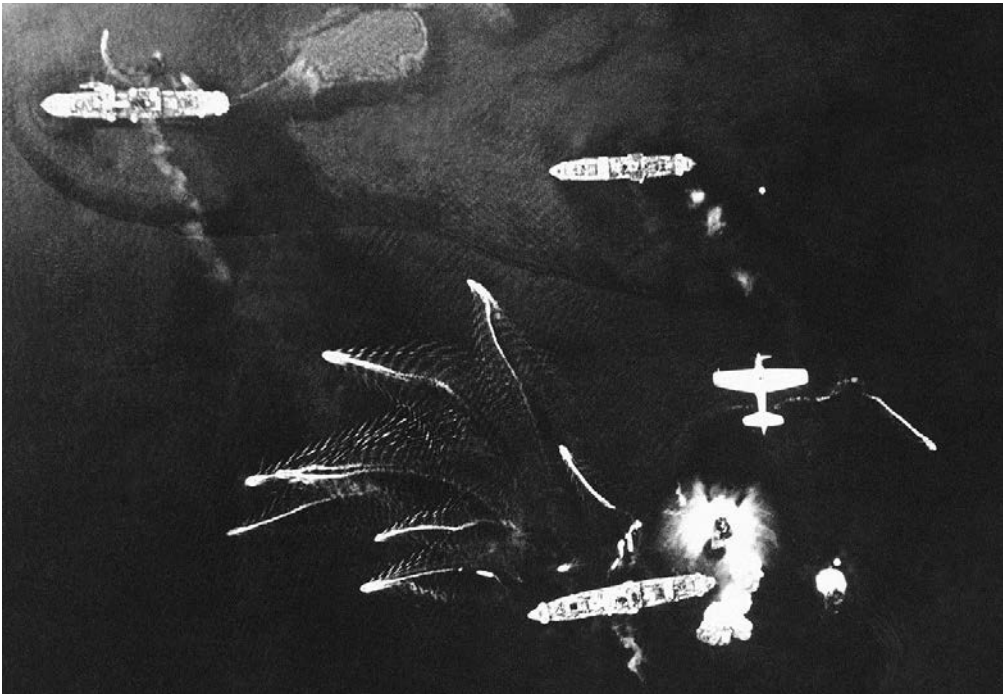


Source: <https://www.parents.com/fun/activities/outdoor/how-you-can-turn-your-backyard-into-an-adventure-playground/>

PROJECT ELEMENTS

WWII FIRE BASE IMAGERY

PACIFIC THEATER



Source: <https://www.theatlantic.com/photo/2011/09/world-war-ii-the-pacific-islands/100155/>



Source: <https://www.nps.gov/valr/learn/historyculture/pacific-battles.htm>

ON-GROUND EXPERIENCE



Source: <https://www.theatlantic.com/photo/2011/09/world-war-ii-the-pacific-islands/100155/>



Source: <https://www.thoughtco.com/battle-of-eniwetok-2360455>

HEROISM



Source: <https://www.theatlantic.com/photo/2011/09/world-war-ii-the-pacific-islands/100155/>



Source: <https://www.theatlantic.com/photo/2011/09/world-war-ii-the-pacific-islands/100155/>

PROJECT ELEMENTS

IRAQ-AFGHANISTAN BASE IMAGERY

MATERIALS



Source: https://en.wikipedia.org/wiki/List_of_forward_operating_bases

LEADERS



Source: <https://www.militarytimes.com/opinion/commentary/2019/07/16/polls-say-many-vets-dont-believe-in-the-iraq-and-afghanistan-mission-but-their-real-feelings-are-more-complex/>

HONOR



Source: <https://www.americamagazine.org/issue/our-sacred-dead>



Source: <https://geographicalimagination.com/tag/firebase-tinsley/>



Source: <https://www.usnews.com/news/articles/2013/03/28/the-total-iraq-and-afghanistan-pricetag-over-4-trillion>

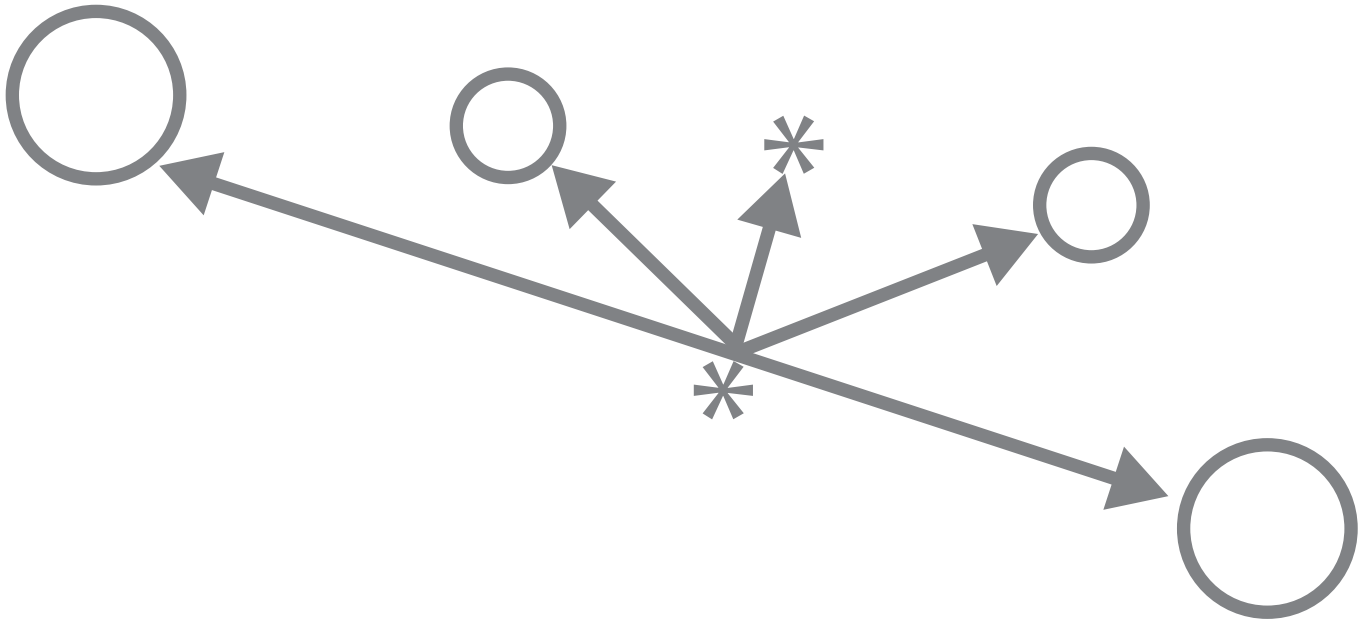


Source: <https://www.operationward57.org/2011/08/in-iraq-youngest-troops-are-paying-the-toll/>

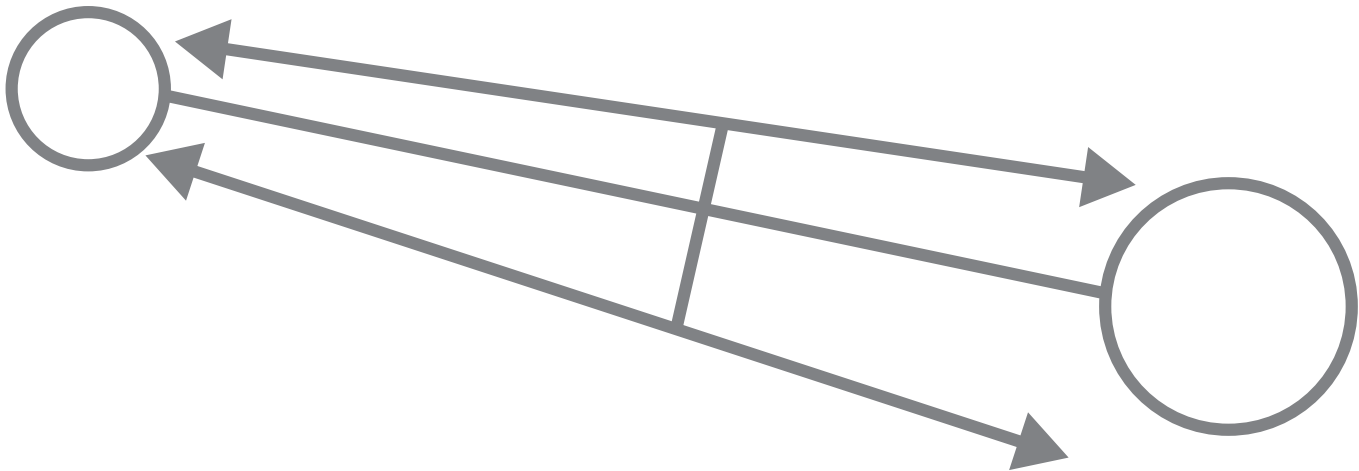
CONCEPT DIAGRAMS



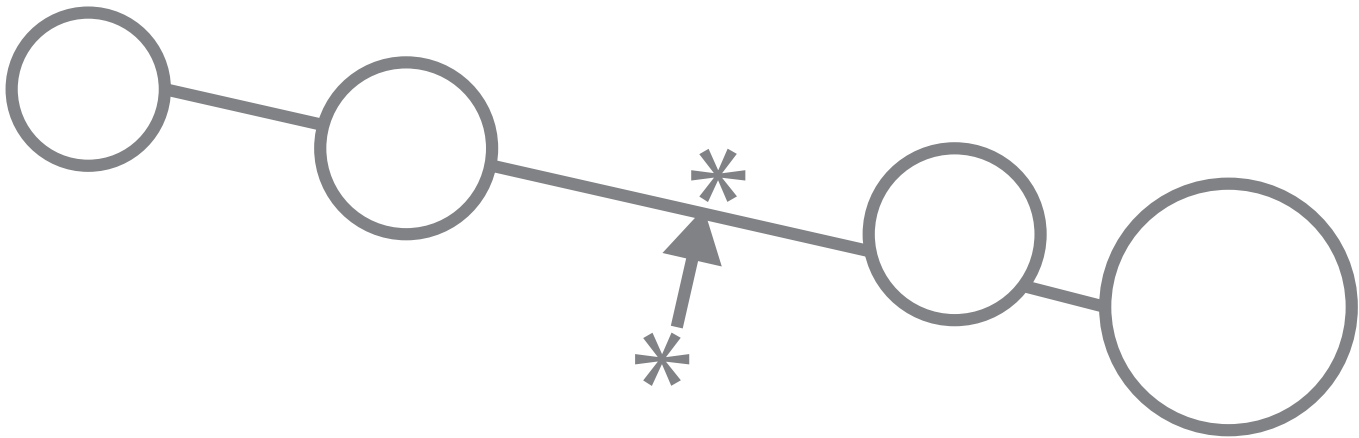
CONCEPT DIAGRAMS



CONCEPT 1
HUB & FLIGHT PATHS



CONCEPT 2
THE RUNWAY



CONCEPT 3
FOCAL POINTS



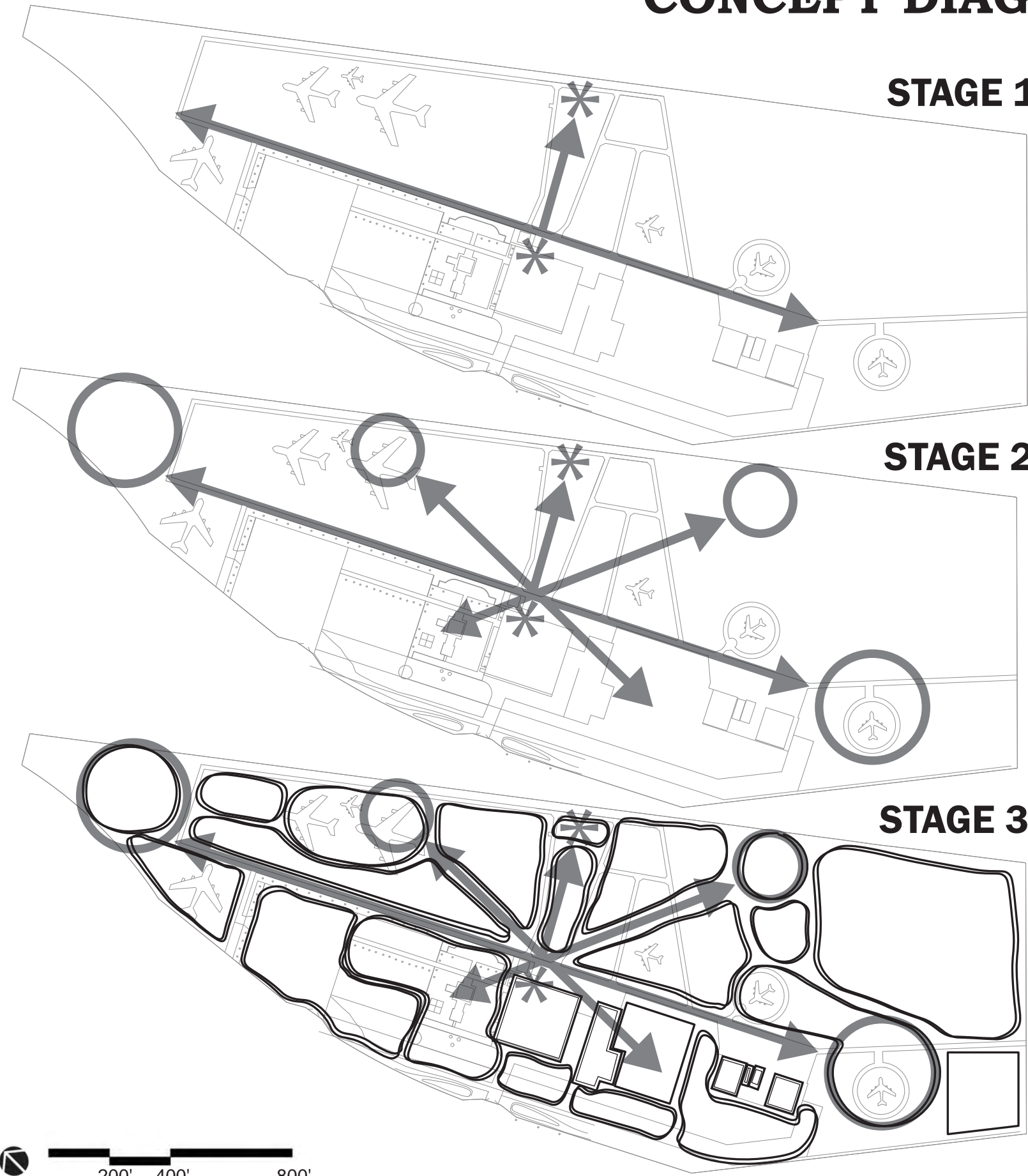
CONCEPT 1
HUB & FLIGHT PATHS



Source: Google Earth

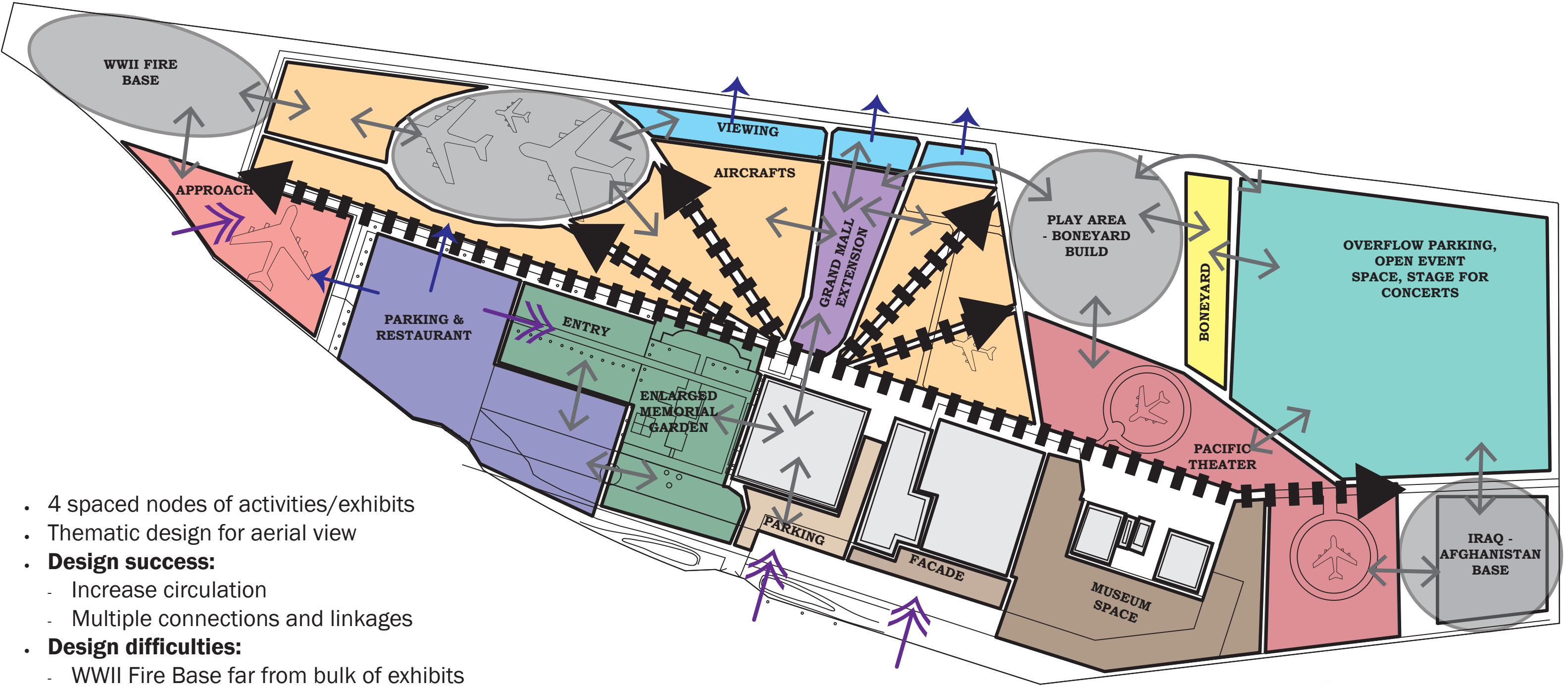
Objective is to increase circulation through the site in a design similar to flight paths.

CONCEPT DIAGRAM 1



CONCEPT DIAGRAM 1

CONCEPT 1 HUB & FLIGHT PATHS



- 4 spaced nodes of activities/exhibits
- Thematic design for aerial view
- **Design success:**
 - Increase circulation
 - Multiple connections and linkages
- **Design difficulties:**
 - WWII Fire Base far from bulk of exhibits
 - Circulation paths may cut through open flow of aircraft exhibits

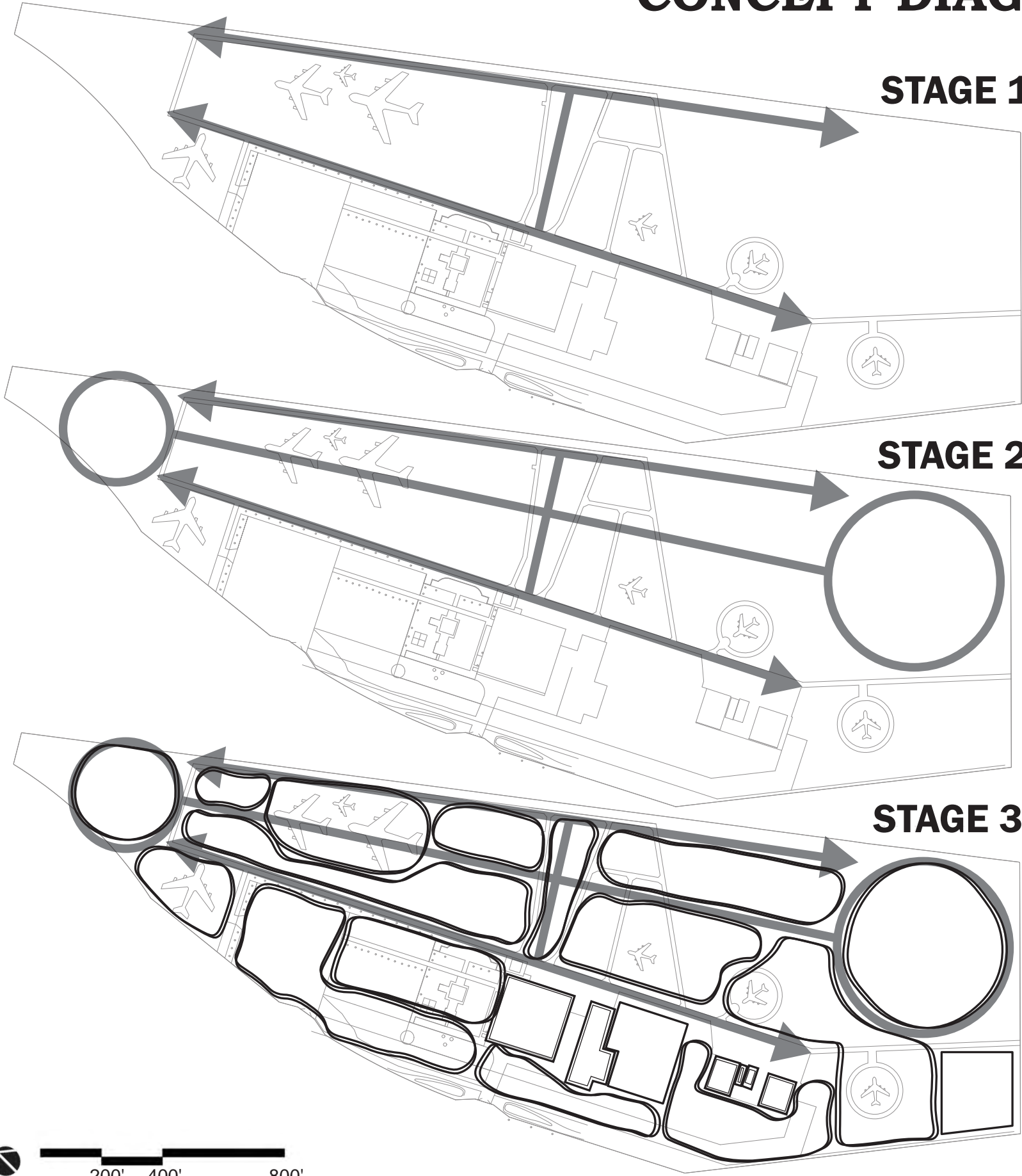
CONCEPT 2 THE RUNWAY



Source: Google Earth

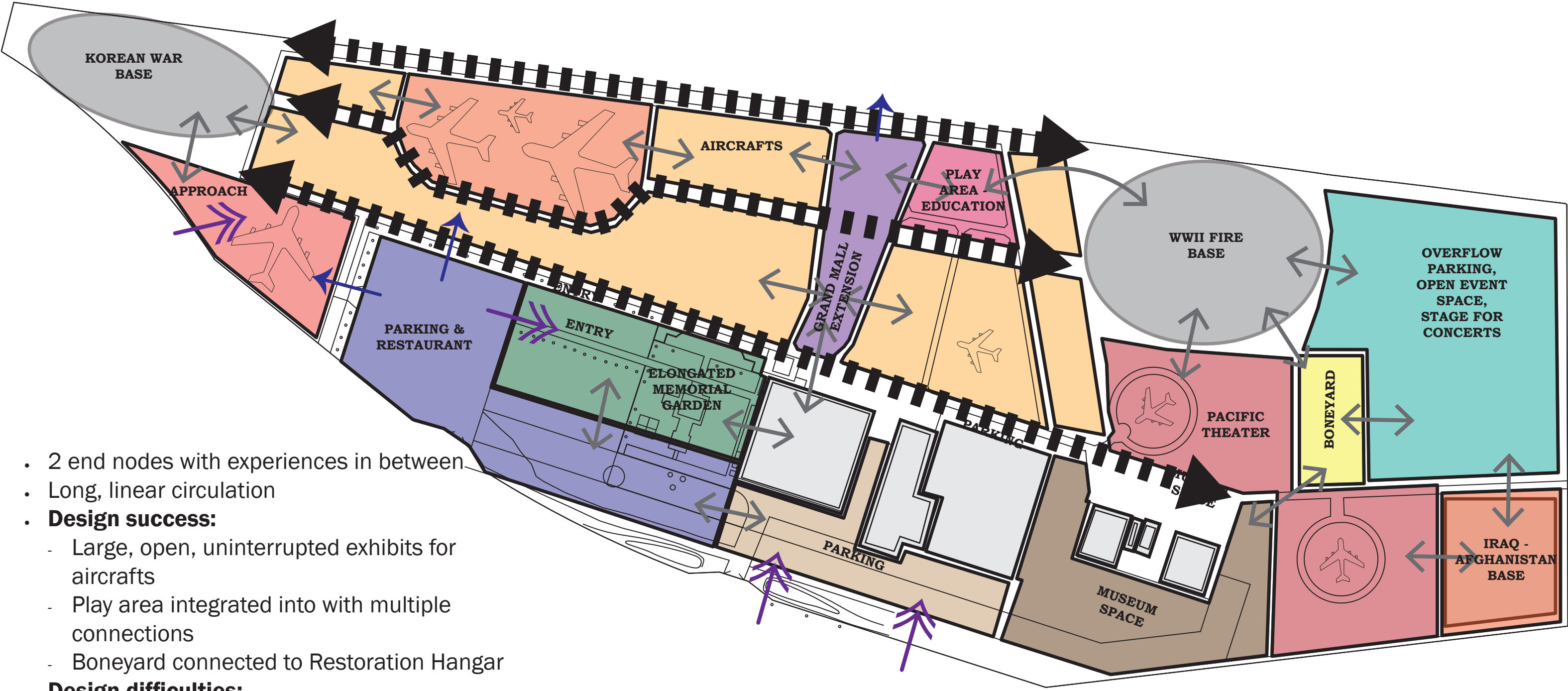
Objective is to create two parallel circulation axis along the length of the site with two emphasized nodes at each end.

CONCEPT DIAGRAM 2



CONCEPT DIAGRAM 2

CONCEPT 2
THE RUNWAY



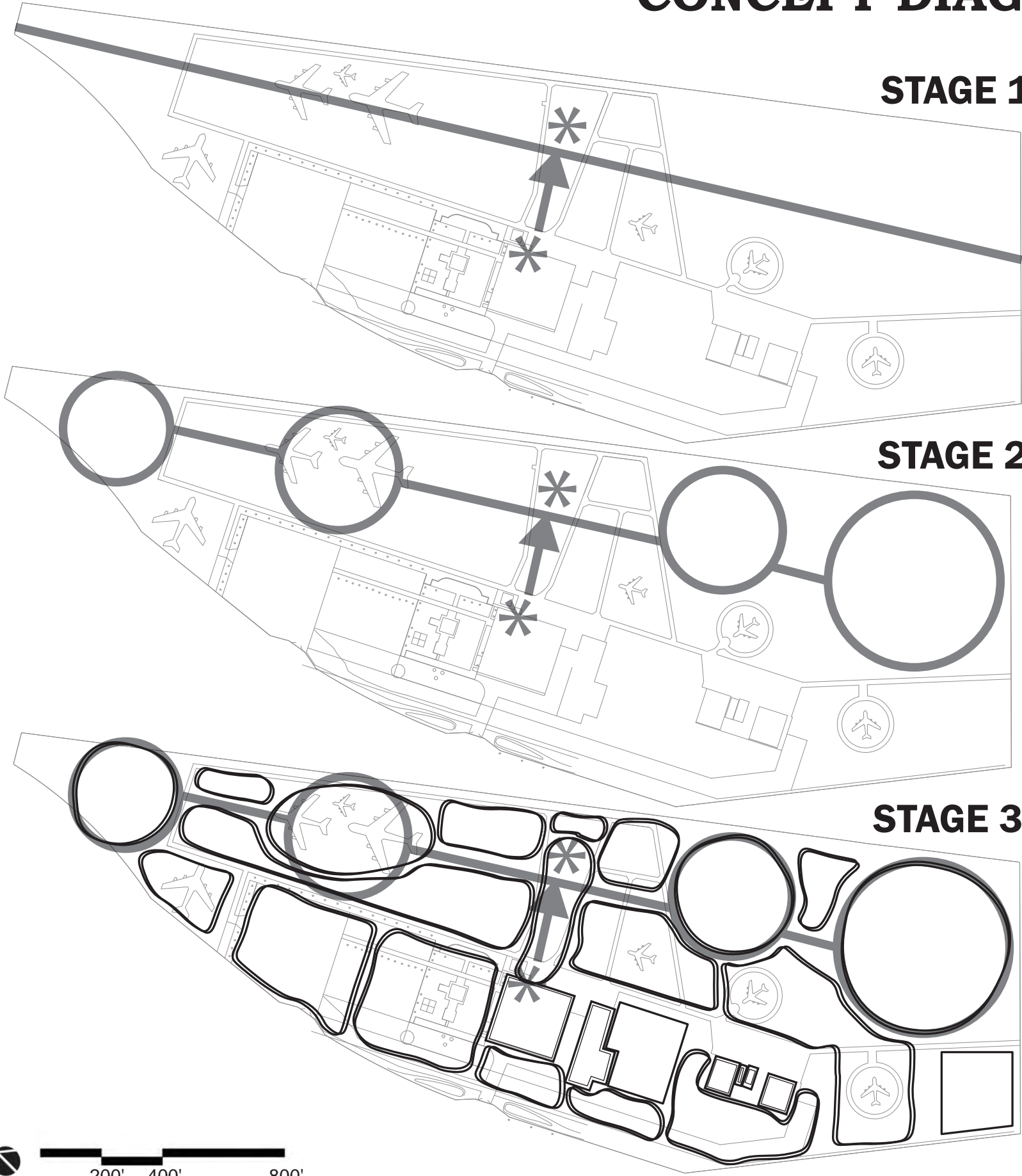
- 2 end nodes with experiences in between
- Long, linear circulation
- **Design success:**
 - Large, open, uninterrupted exhibits for aircrafts
 - Play area integrated into with multiple connections
 - Boneyard connected to Restoration Hangar
- **Design difficulties:**
 - Korean War Fire Base far from bulk of exhibits
 - Slight imbalance of exhibits, more within southern portion

CONCEPT 3 **FOCAL POINTS**

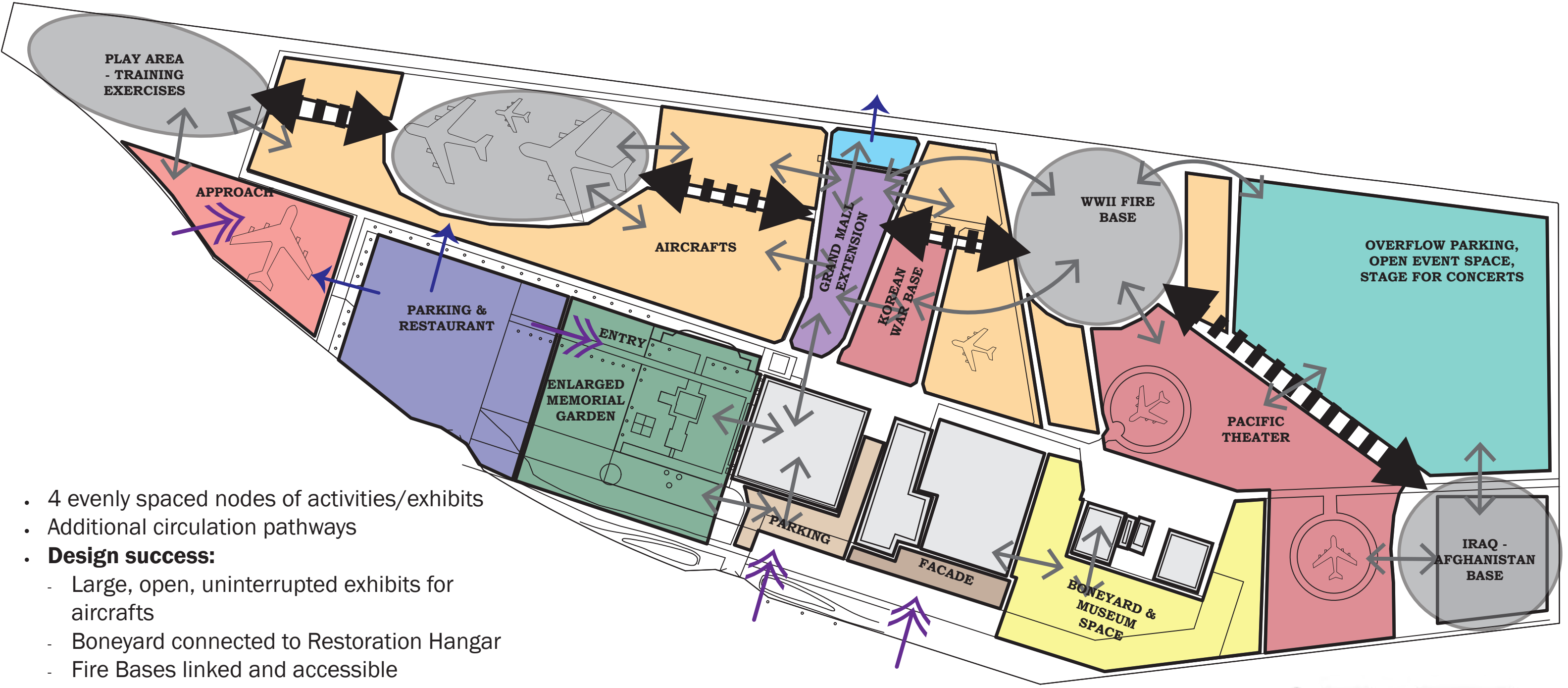


Objective is to build nodes along a central axis connecting different focal points throughout the site.

CONCEPT DIAGRAM 3



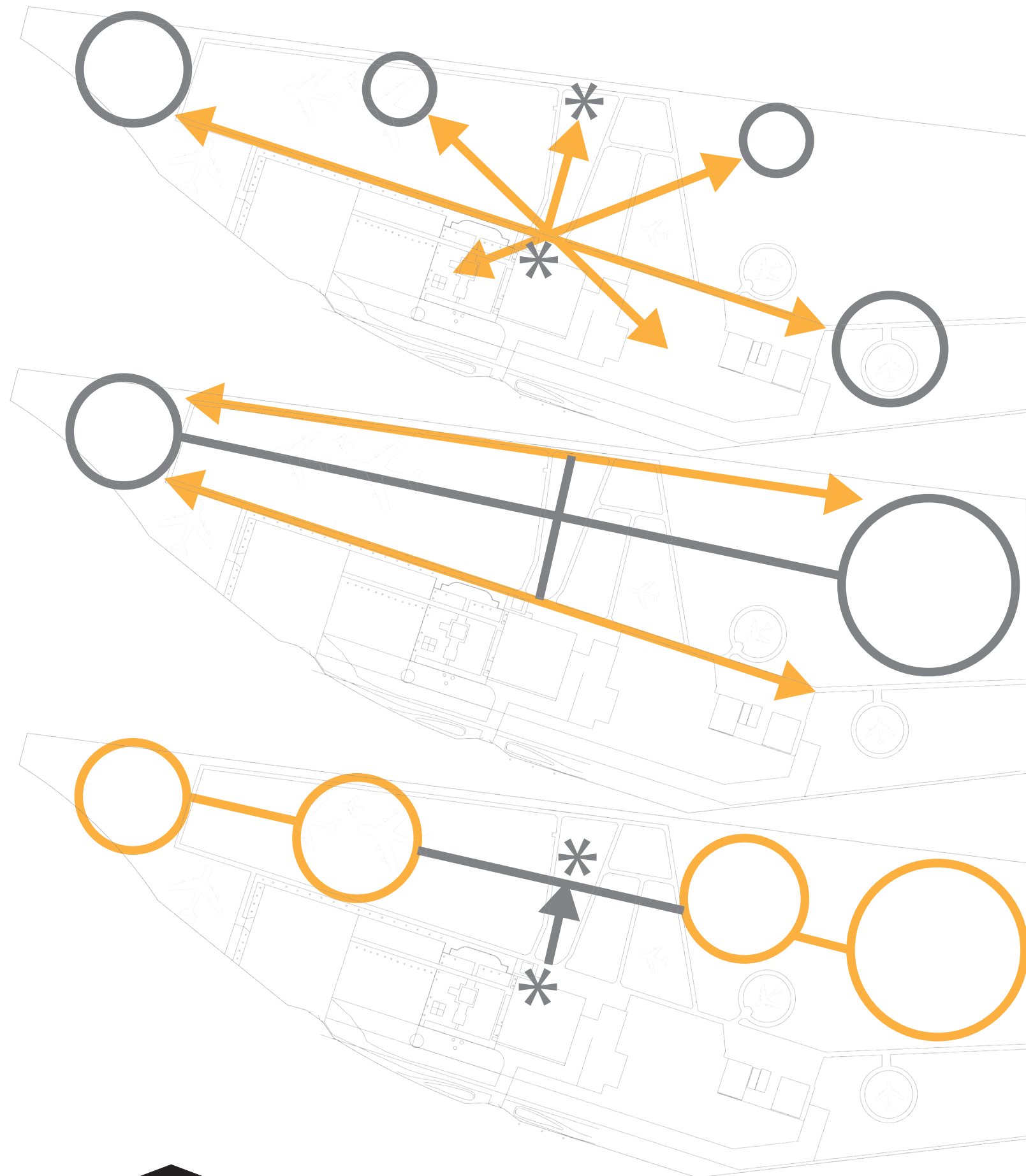
CONCEPT 3
FOCAL POINTS



- 4 evenly spaced nodes of activities/exhibits
- Additional circulation pathways
- **Design success:**
 - Large, open, uninterrupted exhibits for aircrafts
 - Boneyard connected to Restoration Hangar
 - Fire Bases linked and accessible
- **Design difficulties:**
 - Play area as destination in northern end



CONCEPT DEVELOPMENT



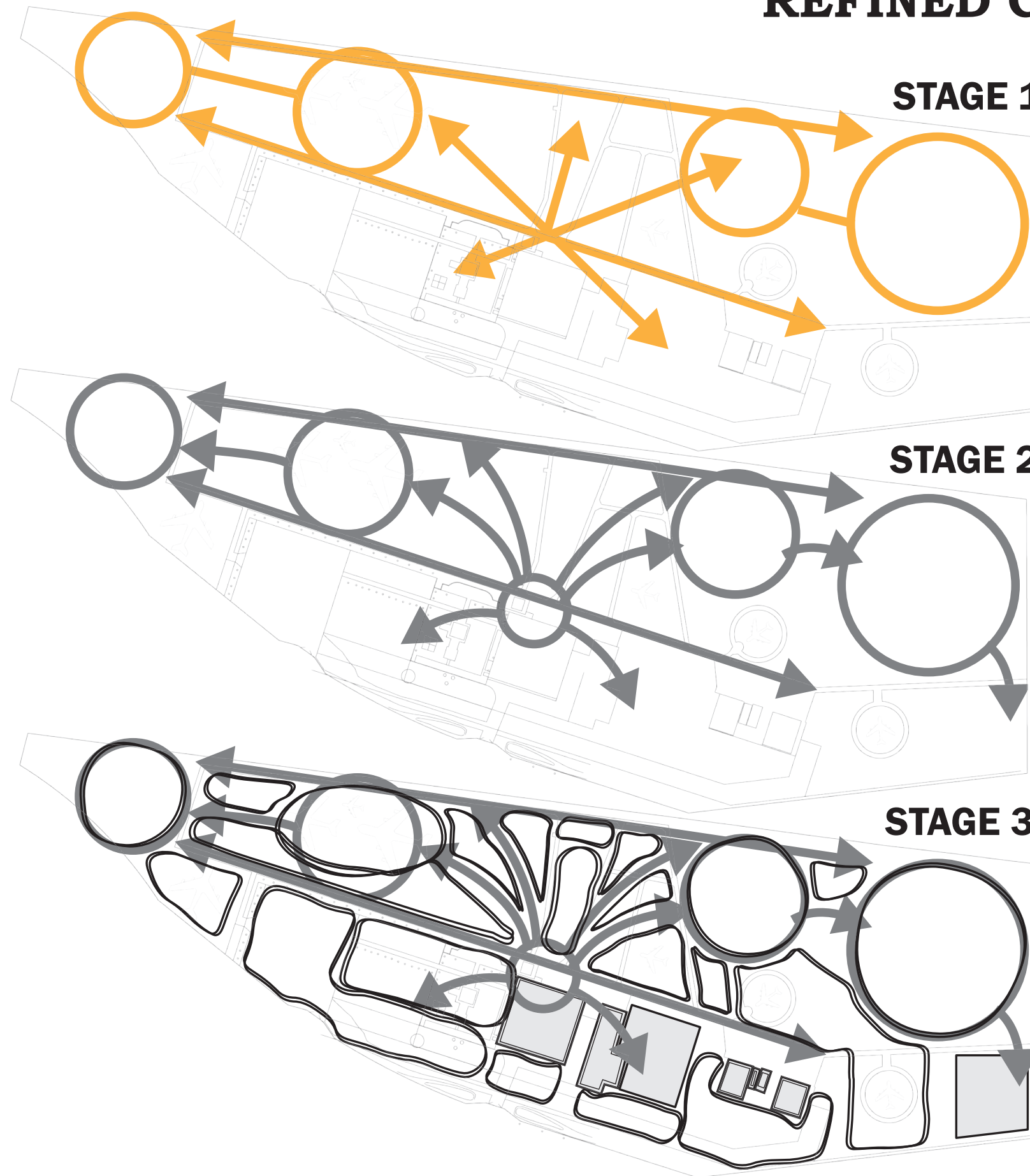
CONCEPT 1
HUB & FLIGHT PATHS

CONCEPT 2
THE RUNWAY

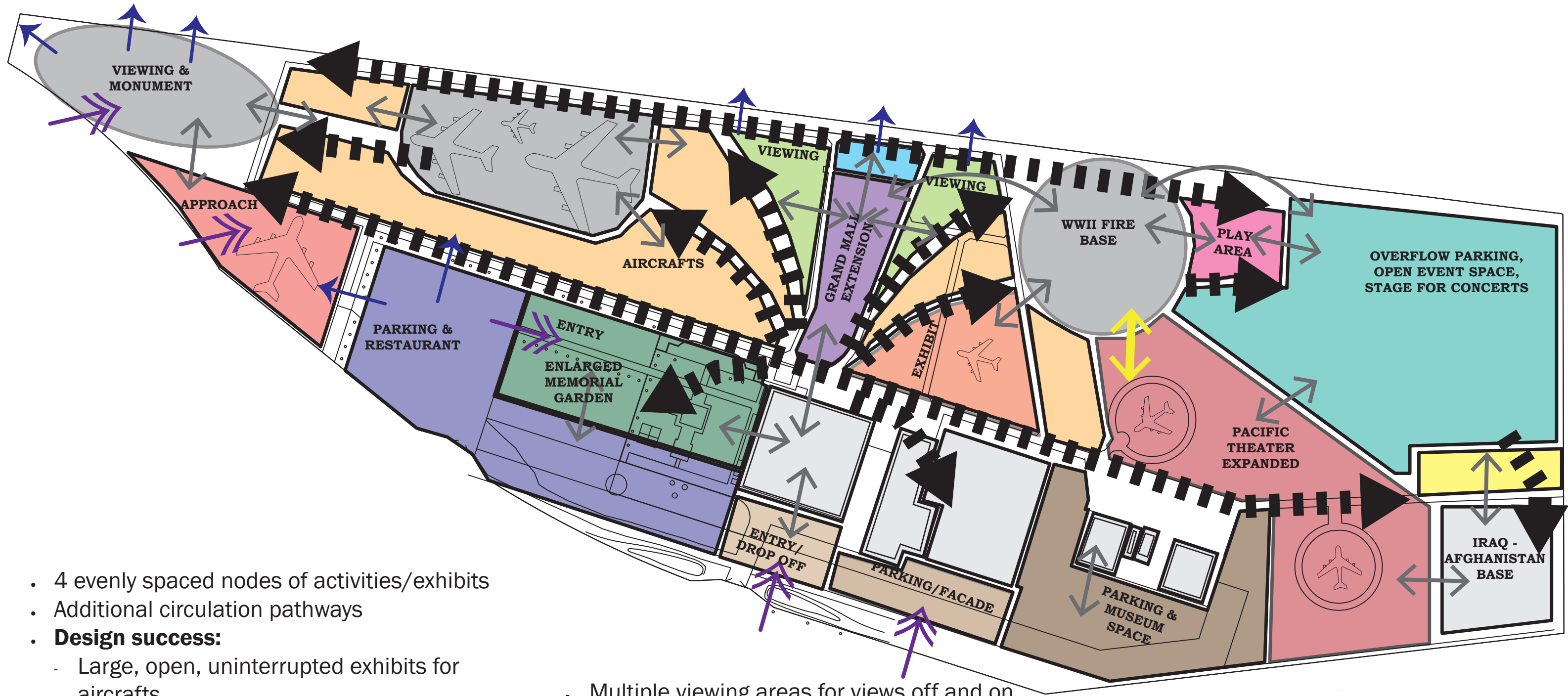
CONCEPT 3
FOCAL POINTS



REFINED CONCEPT DIAGRAM

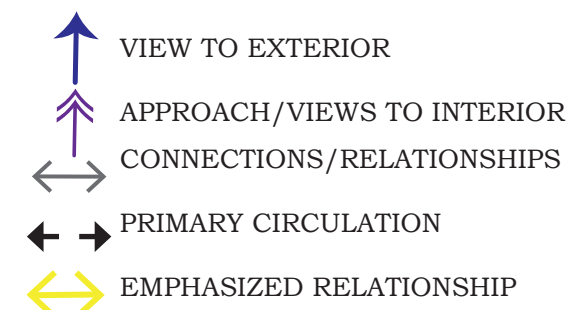


FINAL CONCEPT DIAGRAM



- 4 evenly spaced nodes of activities/exhibits
- Additional circulation pathways
- **Design success:**
 - Large, open, uninterrupted exhibits for aircrafts
 - WWII Fire Base connected to Pacific Theater
 - Fire Bases linked and accessible
 - Play Area accessible to Overflow Parking, Grand Mall extension, and viewing areas for events

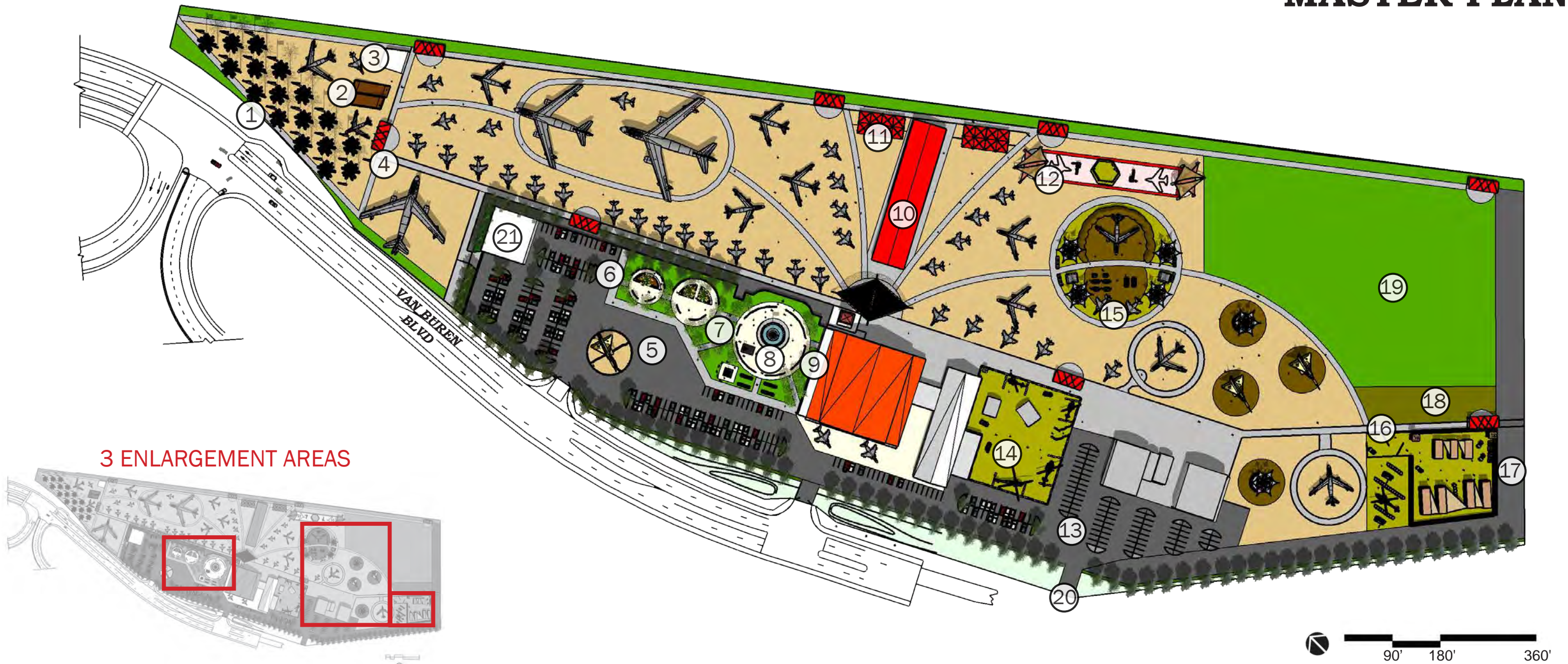
- Multiple viewing areas for views off and on site
- Increased parking opportunities
- Added drop-off and group gathering space
- Increased Heritage Courtyard for honoring and reflection



MASTER PLAN



MASTER PLAN



3 ENLARGEMENT AREAS

- 1 High-Visibility Approach
- 2 Elevated Look-out
- 3 Cafe & Restrooms
- 4 Covered Tram Stop
- 5 Retained Paved Parking Lot
- 6 New Entrance Plaza
- 7 New Heritage Courtyard

- 8 New Gen. "Hap" Arnold Memorial
- 9 New Covered Walkway and Seating
- 10 New Grand Mall Covered Exhibit/Event Space
- 11 New Covered Viewing Areas
- 12 New Children's Play Area
- 13 New Additional Parking
- 14 Vietnam Fire Base
- 15 New WWII Fire Base

- 16 New Iraq/Afghanistan Fire Base
- 17 New Road
- 18 Boneyard
- 19 New Overflow Parking
- 20 New Additional Entrance
- 21 Planned Restaurant

HERITAGE COURTYARD



SMALL MEMORIAL ROOM

WOMEN'S MEMORIAL ROOM

MAIN ENTRANCE AXIS RETAINED

GEN. "HAP" ARNOLD MEMORIAL

WAR DOG MEMORIAL

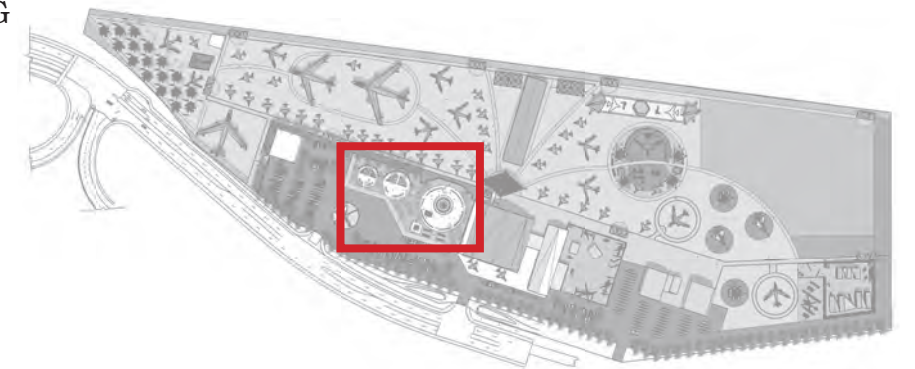
DROP-OFF AREA

DFC NATIONAL MEMORIAL

ROSIE THE RIVETER MEMORIAL ROSE GARDEN

SHADED SEATING

ACCESSIBLE
PARKING



25' 50' 100'

HERITAGE COURTYARD



PARKING

NORTH
ENTRANCE

SMALL MEMORIAL
ROOM

WOMEN'S
MEMORIAL ROOM

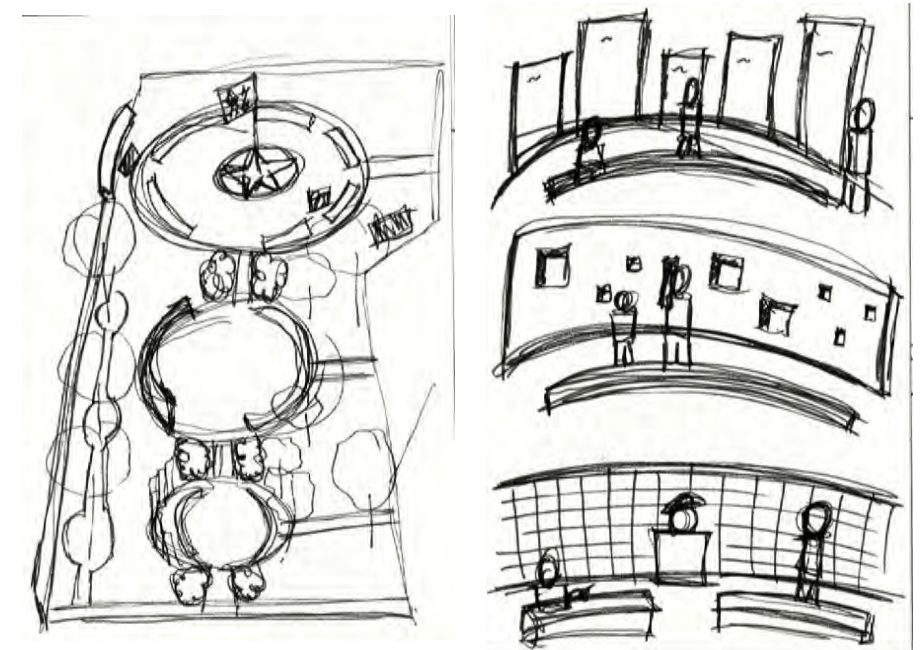
GEN. "HAP" ARNOLD
MEMORIAL

SHADED SEATING



HERITAGE COURTYARD

SERIES OF INTIMATE ROOMS



MOMENTS TO SIT



Source: <https://legacywalk.fsu.edu/locations/memorial-garden/>

EDUCATIONAL GATHERINGS



Source: <https://botanicalgarden.berkeley.edu/rentals-redwood-grove>

OBJECTIVES:

- Honors veterans with grand monuments and signage
- Creates reflective, small, intimate spaces, and areas for large gatherings
- Provides close contact with seating and pathways around monuments
- Educates the public during the museum's closed hours

HERITAGE COURTYARD



The new design of the Heritage Courtyard proposes a large gathering space for group tours with ample seating and shade from trees and extended roof. The design includes the use of a climate-adapt plants species.

GROUNDCOVER

SHRUBS/GRASS

SUCCULENTS

TREES



Native Bent Grass
Agrostis pallens
WUCOL L



Bush Sunflower
Encelia californica
WUCOL L



Deergrass
Muhlenbergia rigens
WUCOL M



Black Sage
Salvia mellifera
WUCOL L



Century Plant
Agave americana
WUCOL VL



Blue Glow Agave
Agave 'Blue Glow'
WUCOL VL



Smooth Agave
Agave desmetiana
WUCOL VL



Britton dudleya
Dudleya brittonii
WUCOL L

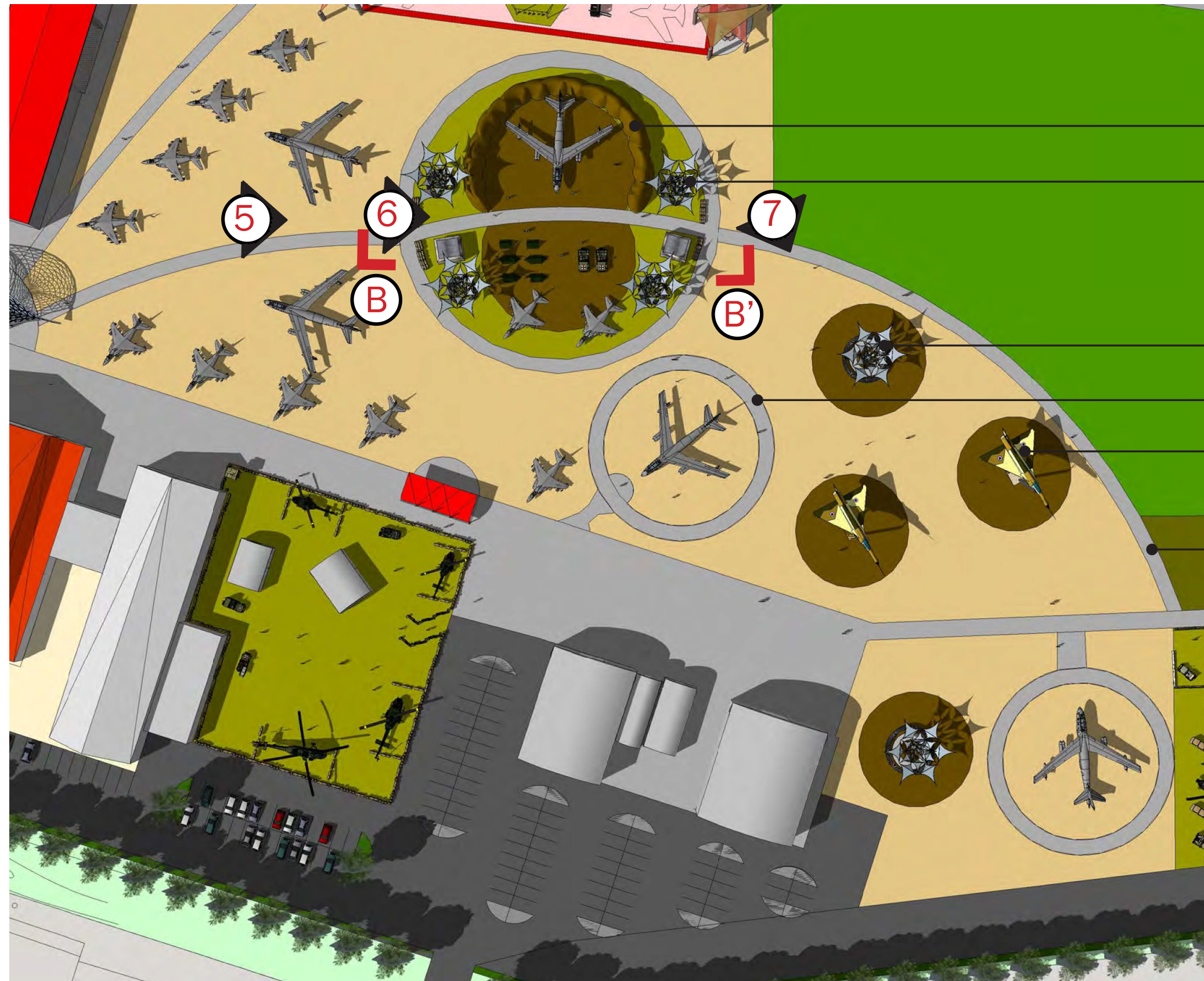


Blue Palo Verde
Parkinsonia florida
WUCOL VL

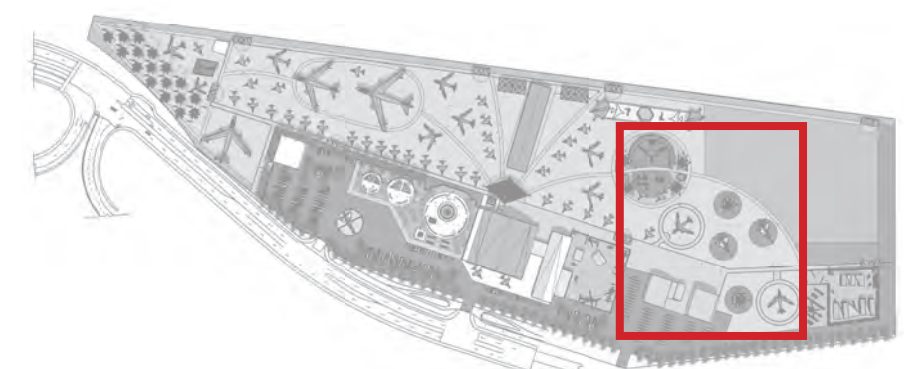


African sumac
Searsia lancea
WUCOL L

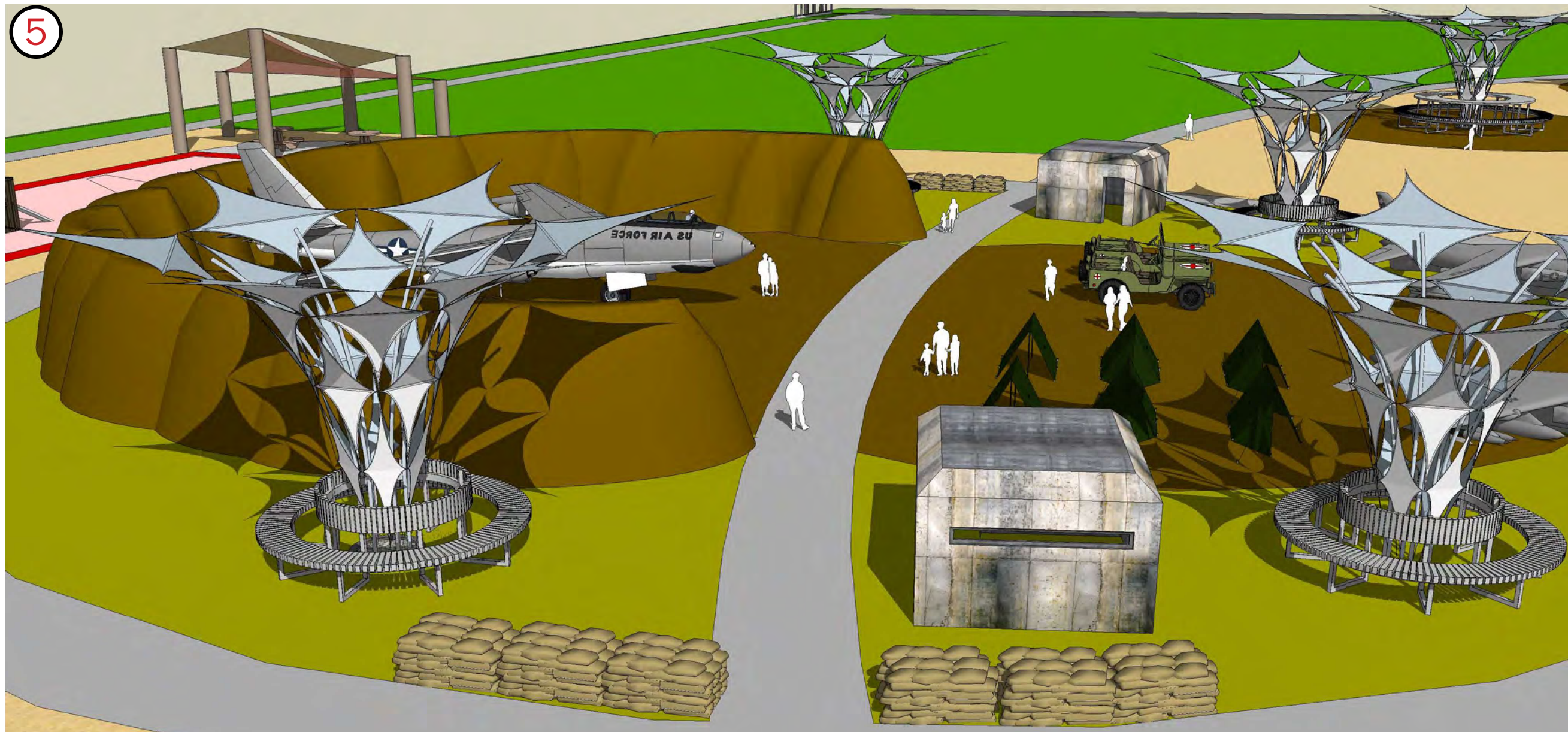
WWII FIRE BASE



- REVETMENT
- “TREE” SHADE SEATING
- “TREE” SHADE SEATING ISLANDS
- RETAINED PACIFIC THEATER
- “ISLAND” MONUMENTS
- “FLIGHT PATH” PATHWAY



WWII FIRE BASE



NORTH
ENTRANCE

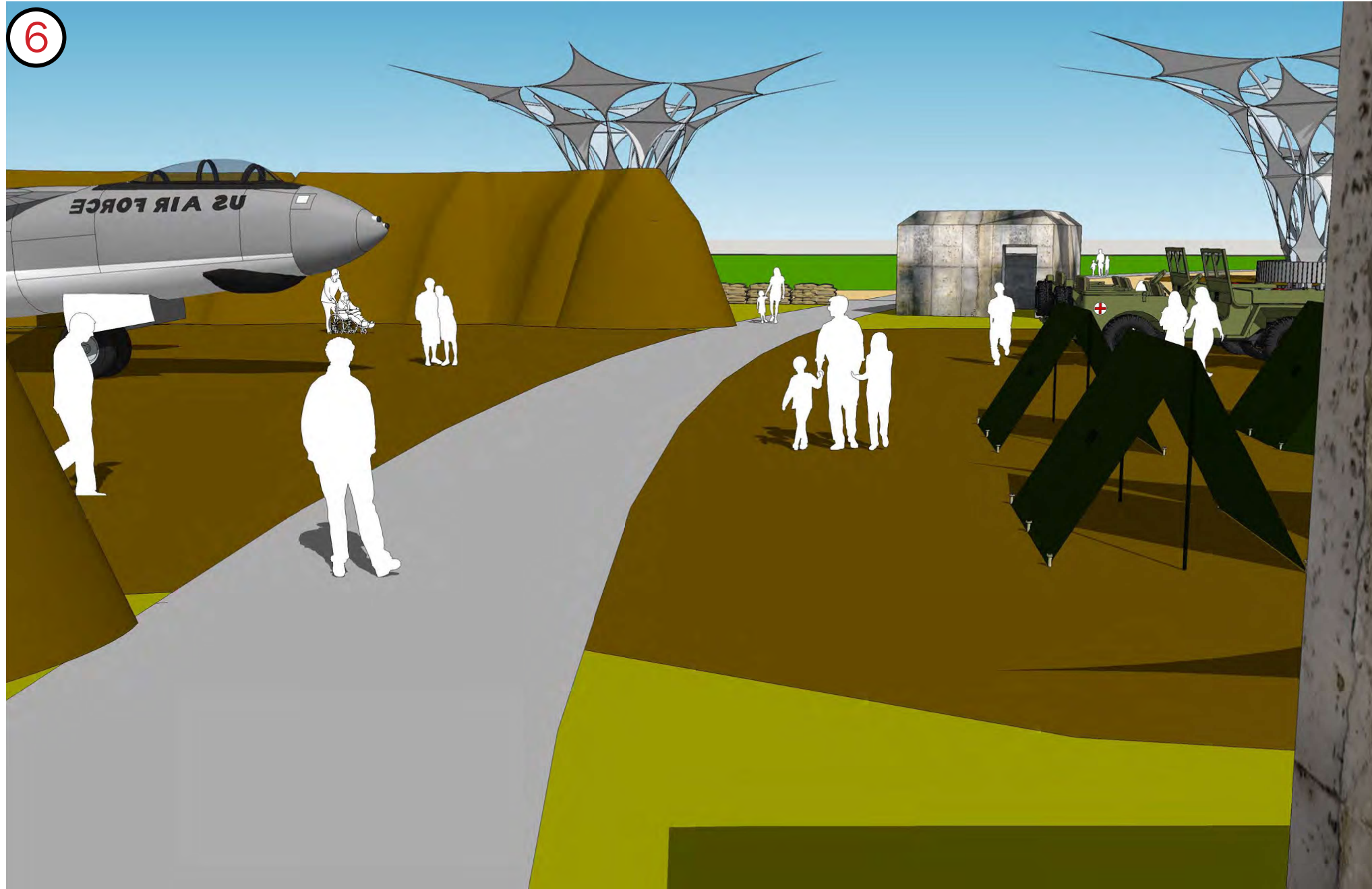
BUNKER

TENTS

REVETMENT

"TREE" SHADE
SEATING

SOUTH ENTRANCE

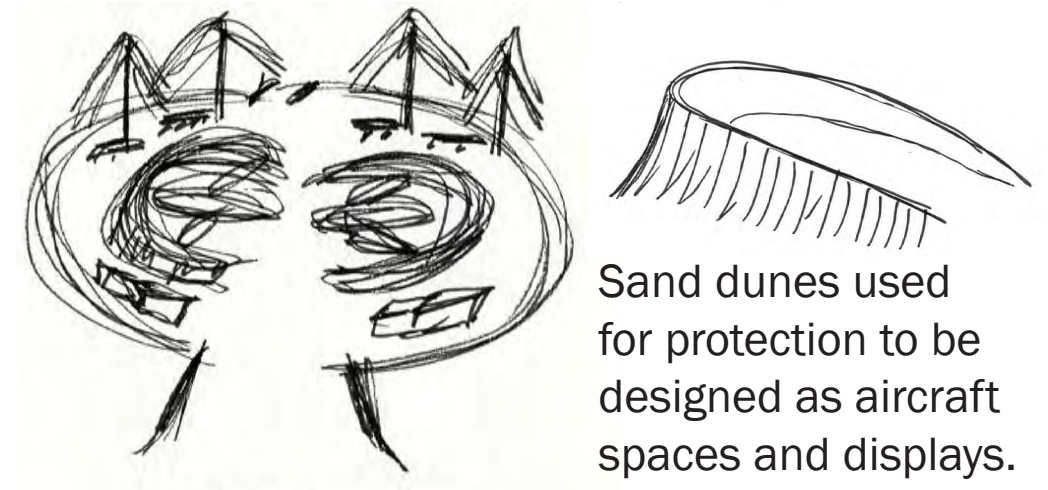


OBJECTIVES:

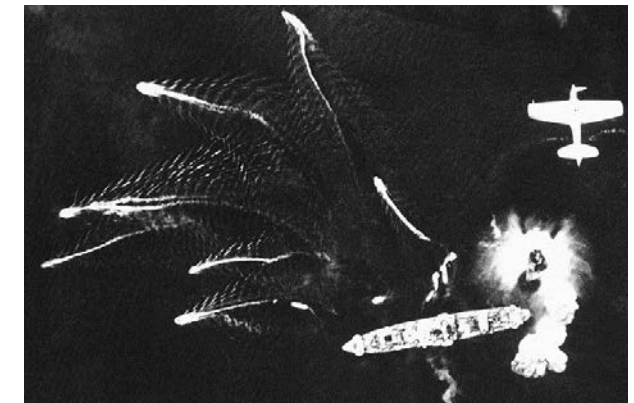
- Inspires exploration and evokes remembrance from use of materials, scale, and design
- Creates an intimate, unique experience, not commonly experienced elsewhere
- Educates the public on history, journey, and experiences
- Provides close contact with accessible exhibits

WWII FIRE BASE

BARRIERS FOR SAFETY



PACIFIC THEATER



Source: <https://www.theatlantic.com/photo/2011/09/world-war-ii-the-pacific-islands/100155/>

PROTECTION



Source: <https://www.theatlantic.com/photo/2011/09/world-war-ii-the-pacific-islands/100155/>

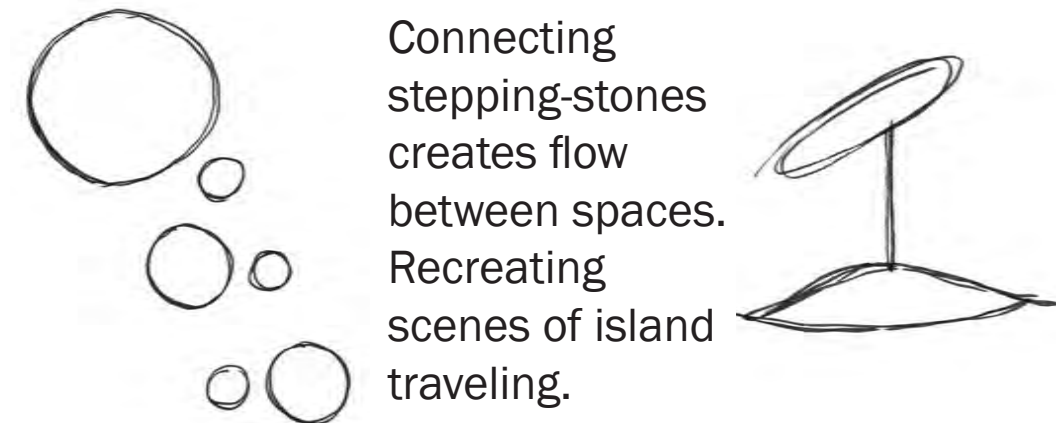


The Island Concept connects the WWII Fire Base with the Pacific Theater using a series of islands of exhibits and shaded seating areas providing stepping-stones. The intent of the design is to carry an experience through exhibits and a journey of traveling between islands in the Pacific.

WWII FIRE BASE

ISLAND CONCEPT

SERIES OF ISLANDS



ISLAND EXPERIENCE



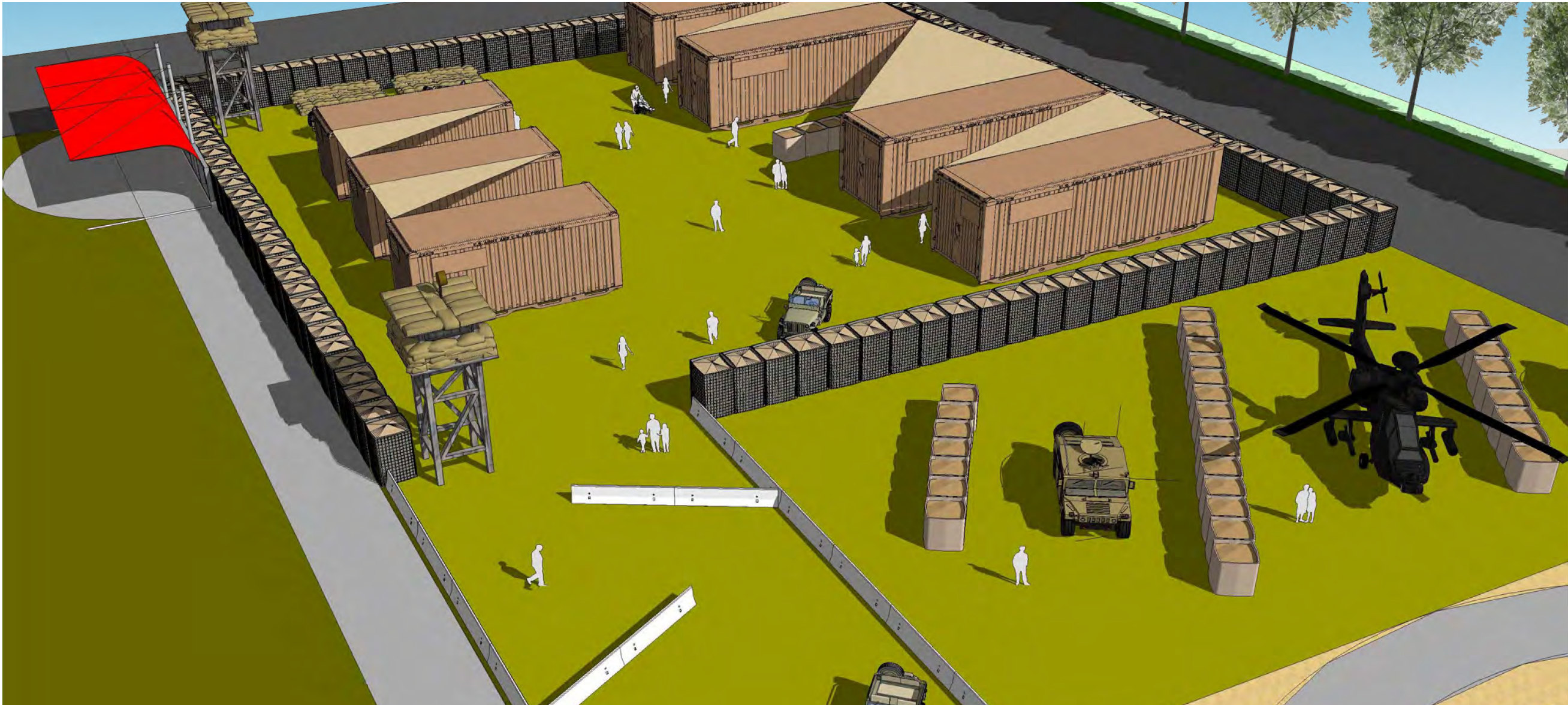
Source: <https://www.nps.gov/valr/learn/historyculture/pacific-battles.htm>

ON-GROUND EXPERIENCE



Source: <https://www.thoughtco.com/battle-of-eniwetok-2360455>

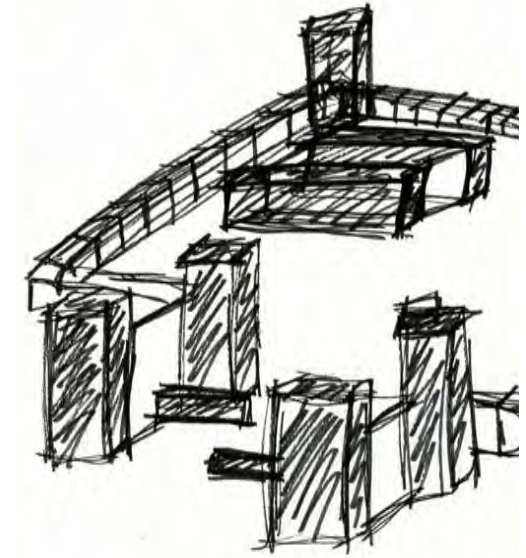
IRAQ/AFGHANISTAN OPERATING BASE



IRAQ/AFGHANISTAN OPERATING BASE



BARRIERS FOR SAFETY



MATERIALS



Source: https://en.wikipedia.org/wiki/List_of_forward_operating_bases

LEADERS

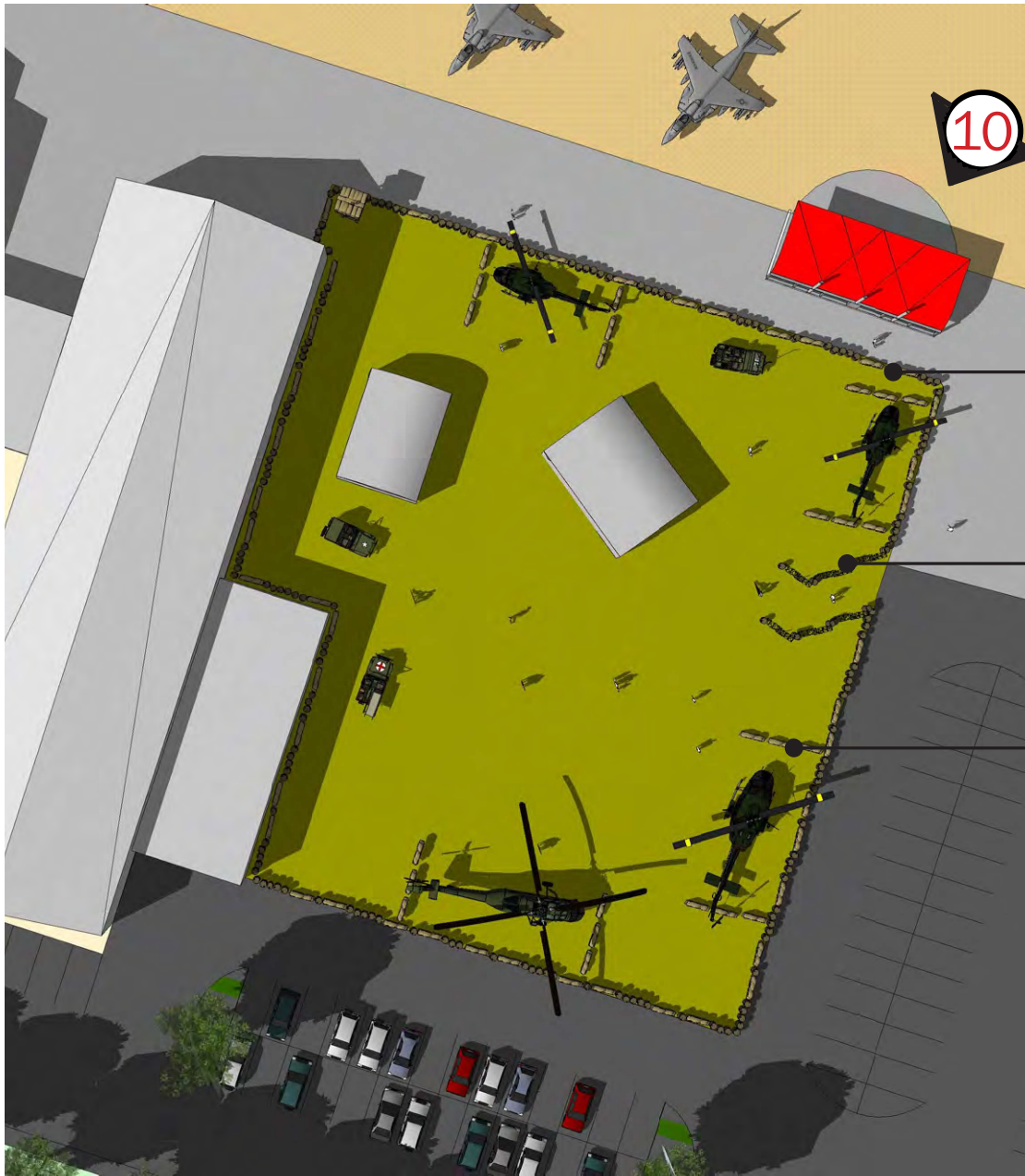


Source: <https://www.militarytimes.com/opinion/commentary/2019/07/16/polls-say-many-vets-dont-believe-in-the-iraq-and-afghanistan-mission-but-their-real-feelings-are-more-complex/>

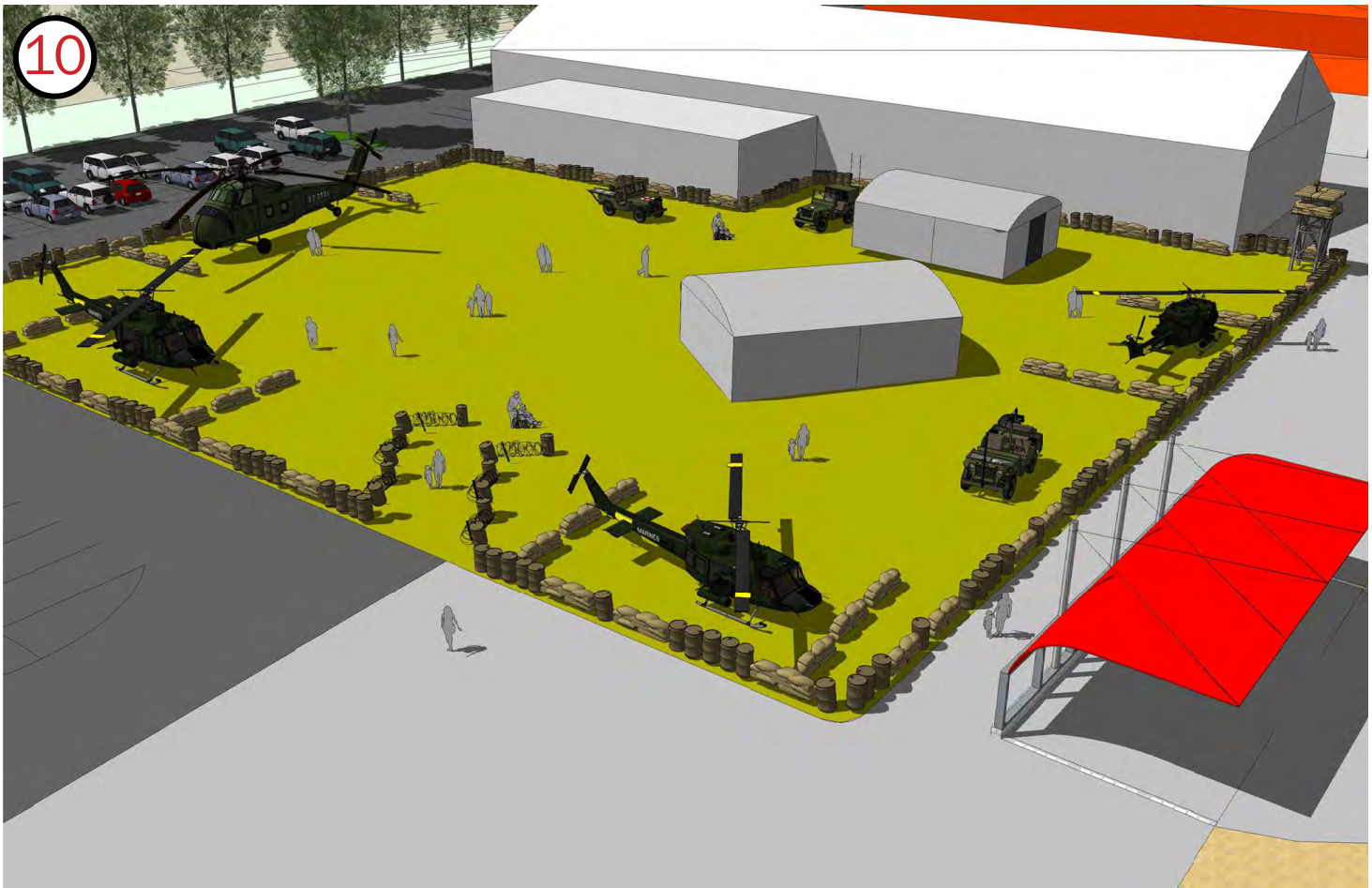
OBJECTIVES:

- Evokes remembrance from use of materials, scale, and design
- Creates an intimate, unique experience, not commonly experienced elsewhere
- Educates the public on experiences and stimulates memories of veterans
- Provides close contact with accessible exhibits with accuracy like no other

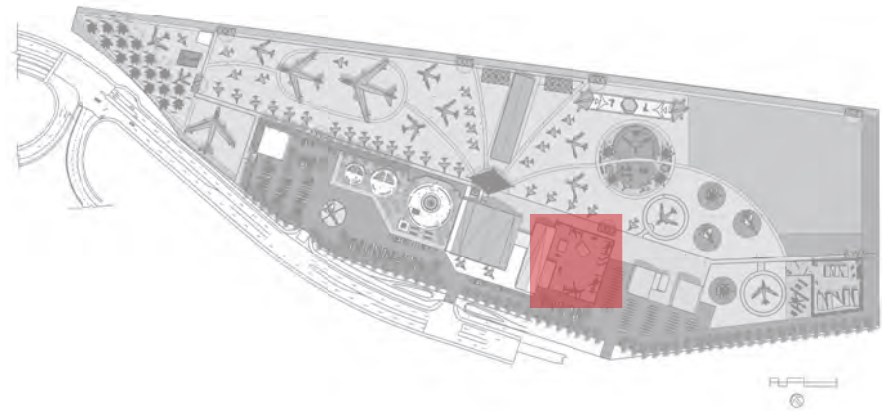
VIETNAM FIRE BASE



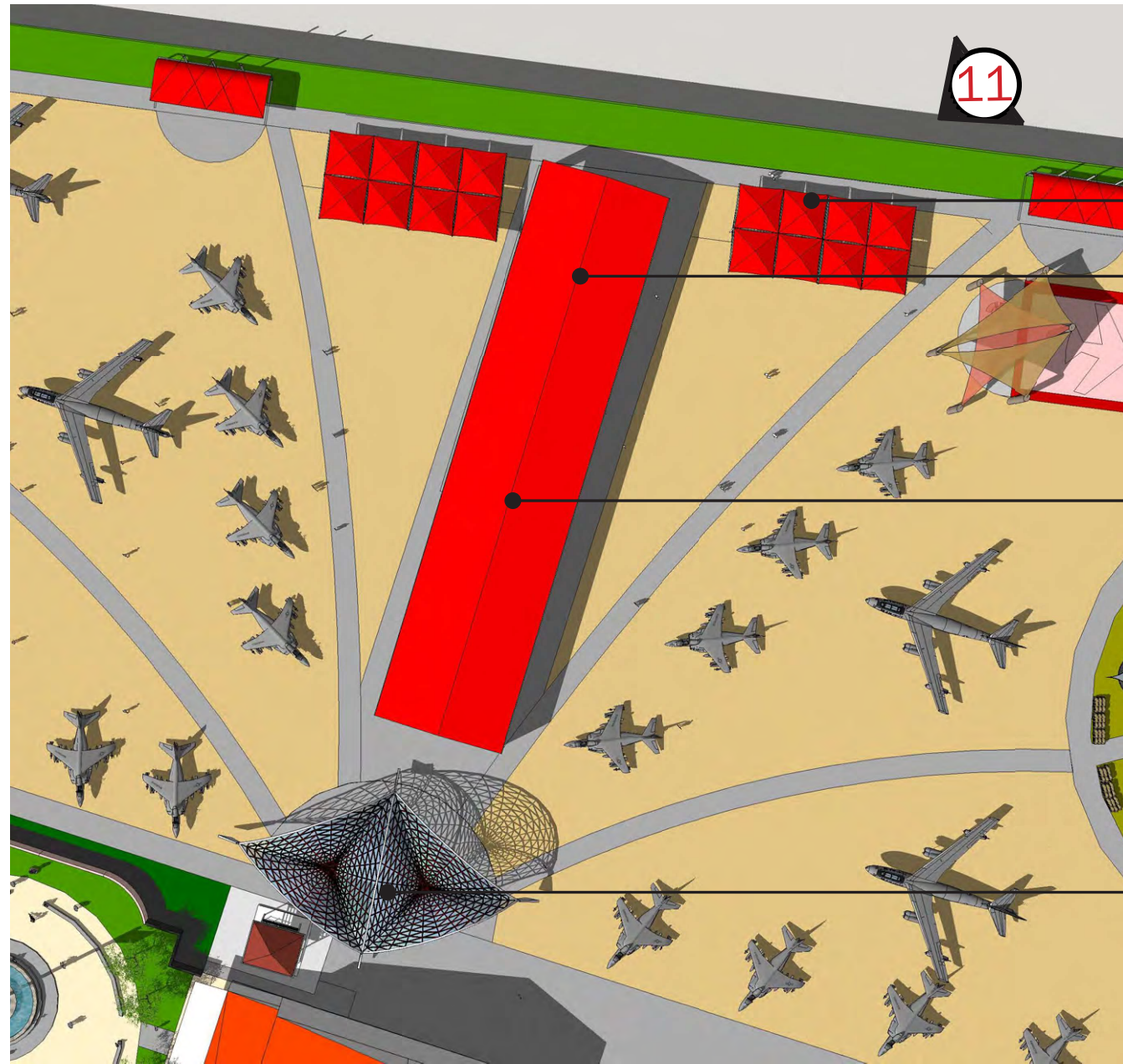
- SANDBAG AND BARREL BOUNDARY
- NEW ENTRANCE
- AIRCRAFT ENCLOSURES



The design creates a grand new entrance to act as a transition between the museum airfield with the fire base area. The fire base allows for close contact to aircrafts and materials not experienced anywhere else. The intent is to evoke remembrance and educate the public on history.



GRAND MALL



11

SHADED VIEWING AREA

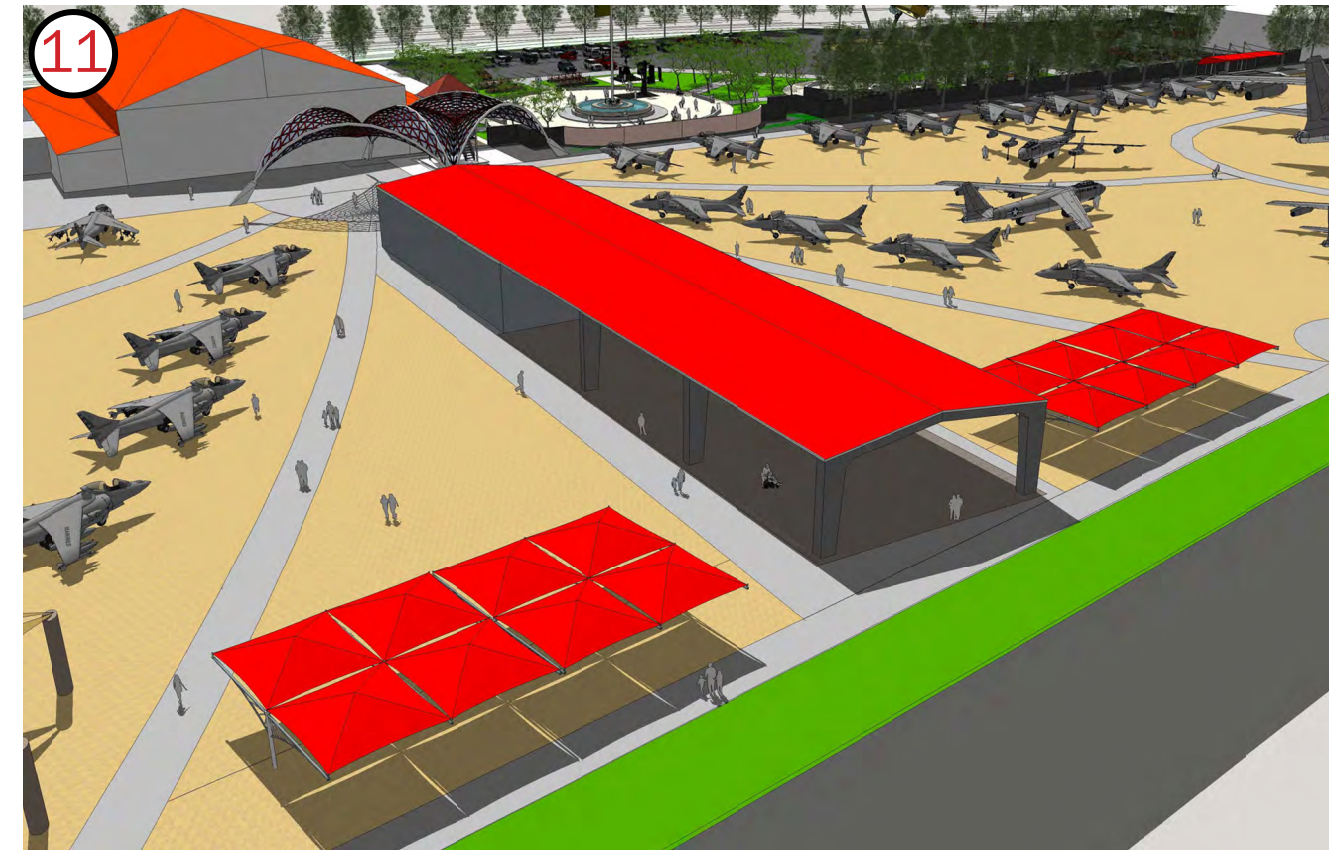
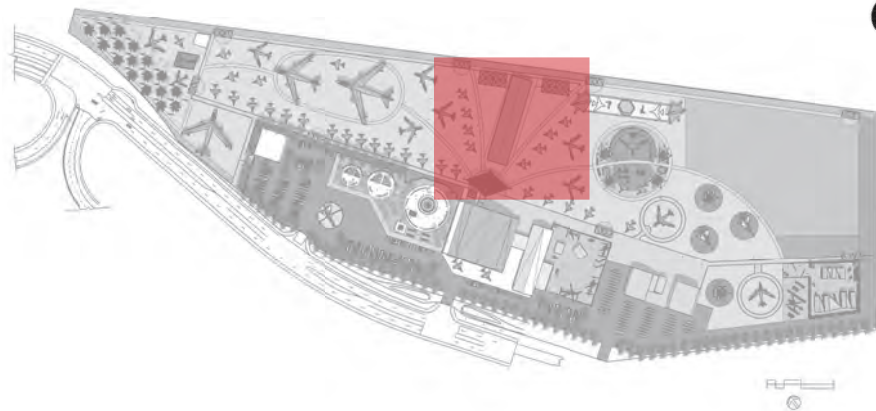
EXTENDED ROOF FOR SHADED EXTERIOR EXHIBIT/ EVENT SPACE

INTERIOR EXHIBIT/ EVENT SPACE

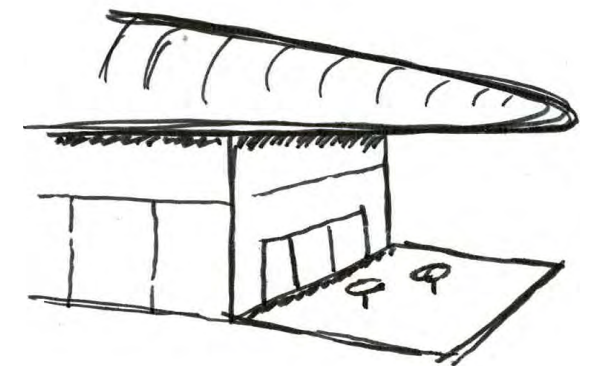
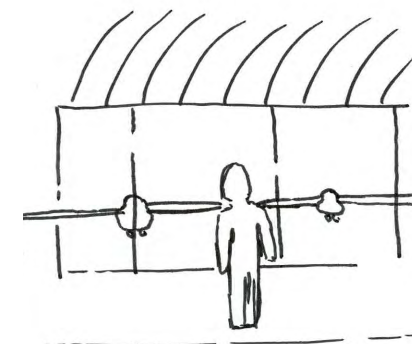
SHADED CENTRAL ENTRANCE AREA



25' 50' 100'

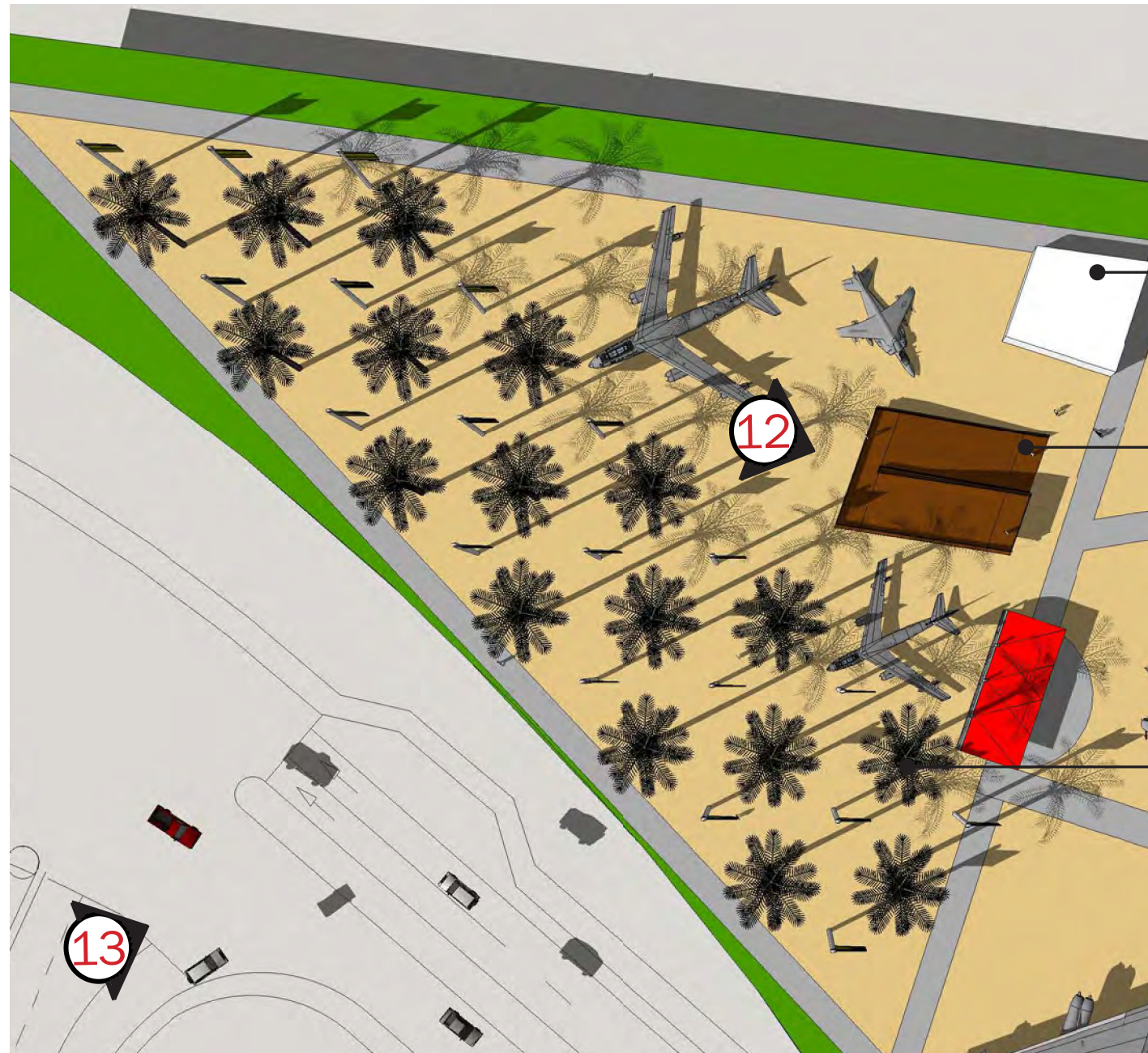


11



The design intends to create an extension of the Hangar for exhibit and event space. The glass windows allow viewing of aircrafts from climate-controlled indoors. The structure mimics the shape of an aircraft wing and the roof of the structure extends to provide a shade structure for outdoor use.

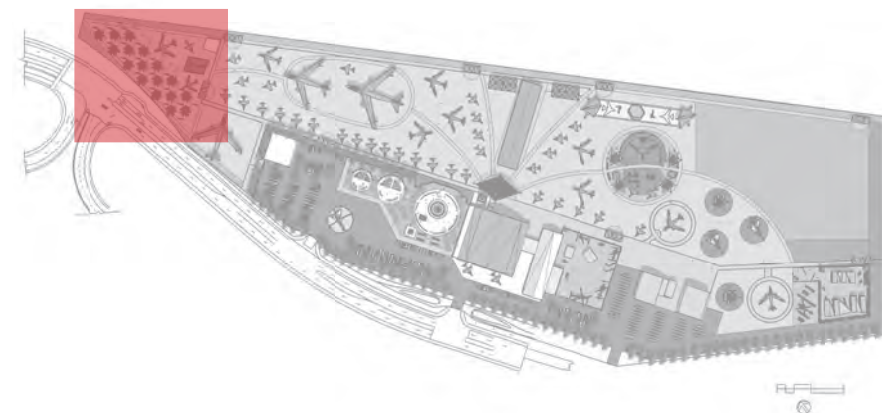
NORTH CORNER



CAFE/SHOP &
RESTROOMS

ELEVATED
LOOK-OUT

FLAG AND
PALM FOREST
MONUMENT



The North Corner is the first view of the site and the design incorporates a tall Flag and Palm Forest Monument that mimics the organization and alignment of soldiers. The Monument allows for solitary walking and intimate experience.



Thank you



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Photo credits by Patrick Reynolds and Allan Spulecki

Plant Palette Photos:

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PRESENTATION BOARDS

MARCH FIELD AIR MUSEUM

Master Plan Riverside, California

PROJECT STATEMENT

- To **Enhance** the Visitor's Experience, Awareness, and Understanding of the Significant History and Importance of the Site itself, as well as the Air Force's Vital Role in our Country's Defenses
- To **Develop** a Master Plan as a Graphic Example of the Vision of the Museum for Future Implementation of the Master Plans, as well as Enhance Funding Opportunities for Future Projects
- To **Solve** Site Planning and Program Challenges with a Master Plan that Meets the Needs for Attracting Visitors of All Ages

PROJECT GOALS

- Attract** visitors of all ages
- Create** flexible exhibit and event space
- Increase** shade opportunities
- Design** interactive and interesting exhibits
- Use** climate-adapt plants

PROGRAM

- 2 Fire Bases
- Expansion of Heritage Courtyard
- Grand Mall
- Dedication Space for 5 Star Gen. Hap Arnold
- Overflow Parking Adaptive Reuse
- Existing Parking Lot Redesign
- Formal Viewing Area for Air Shows
- Shaded Viewing Area for Exhibits
- Grand Entrance
- Use of Sustainable Materials

OBJECTIVES

- To **Honor** and Remember Veterans
- To **Design** Reflective Spaces
- To **Provide** Close Contact
- To **Educate** the Public and Stimulate Memories of Veterans
- To **Inspire** Exploration and Evoke Remembrance
- To **Create** an Experience and Journey with Intimacy and Accuracy Like No Other

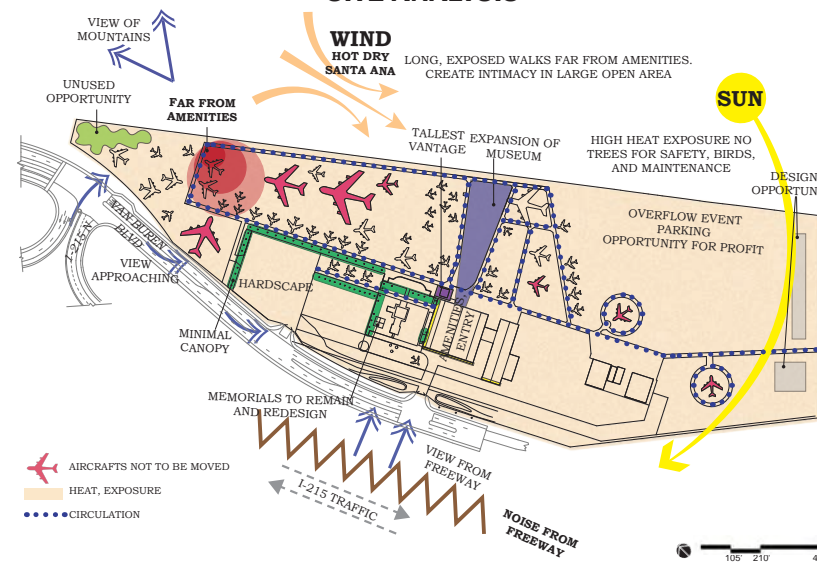
VICINITY MAP



CONTEXT MAP

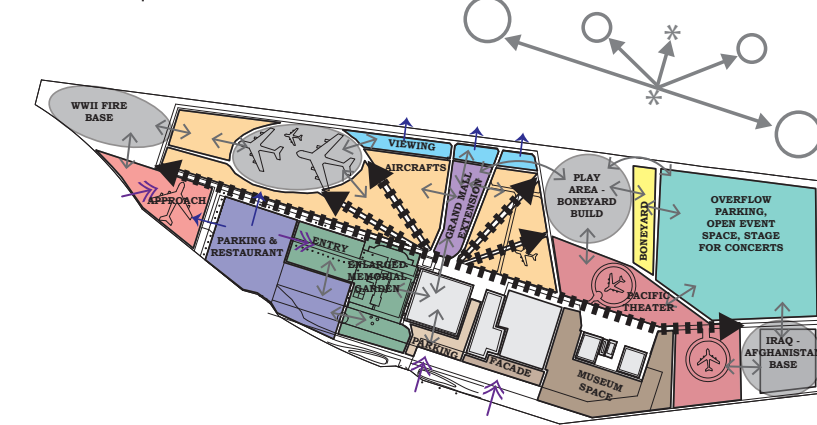


SITE ANALYSIS

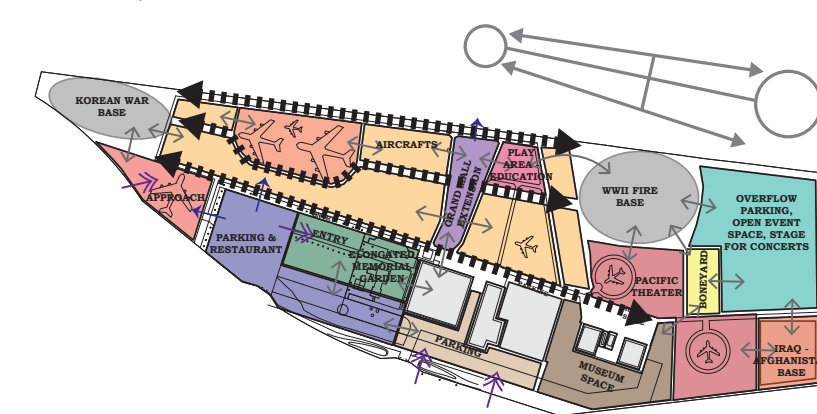


CONCEPT DIAGRAMS

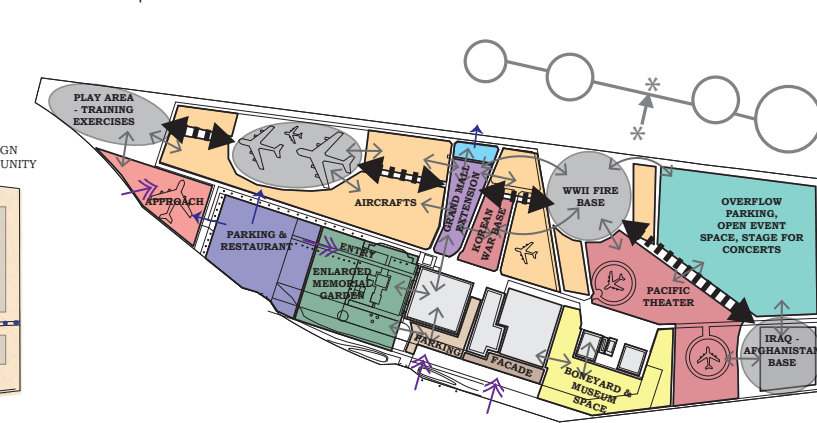
CONCEPT 1 | HUB & FLIGHT PATHS



CONCEPT 2 | THE RUNWAY



CONCEPT 3 | FOCAL POINTS



VIEW TO EXTERIOR
APPROACH/VIEWS TO INTERIOR
CONNECTIONS/RELATIONSHIPS
PRIMARY CIRCULATION

Janice Wondolleck | UCLA Extension | Landscape Design 7 | Spring 2020

MARCH FIELD AIR MUSEUM

PRESENTATION BOARDS

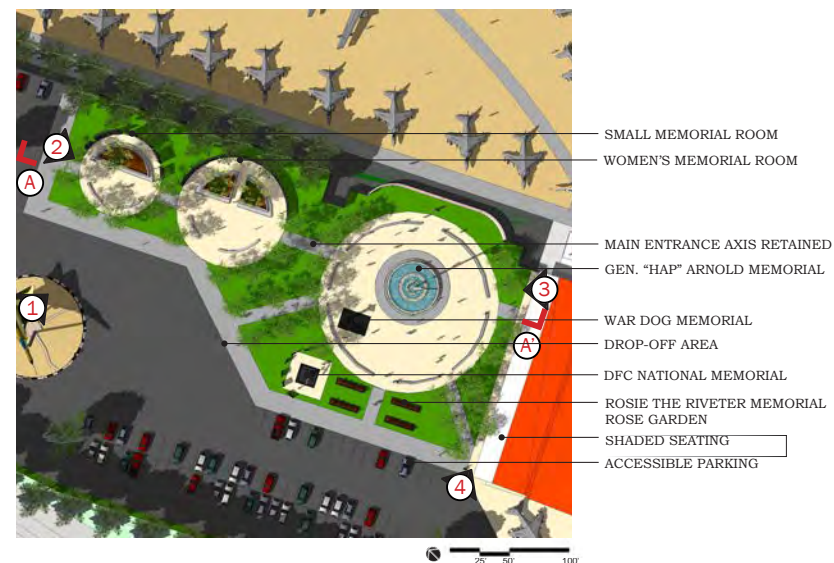
Master Plan

PLAN NOTES

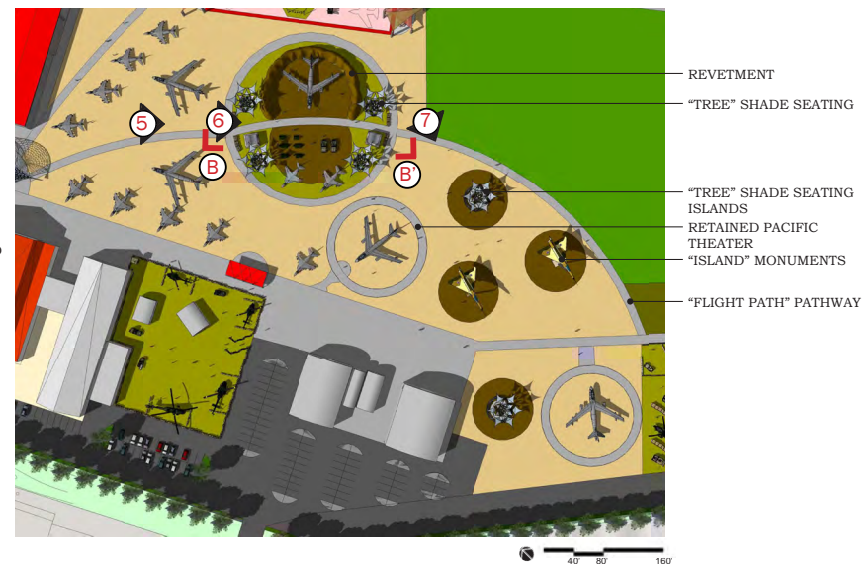
- 1 High-Visibility Approach
- 2 Elevated Look-out
- 3 Cafe & Restrooms
- 4 Covered Tram Stop
- 5 Retained Paved Parking Lot
- 6 New Entrance Plaza
- 7 New Heritage Courtyard
- 8 New Gen. "Hap" Arnold Memorial
- 9 New Covered Walkway and Seating
- 10 New Grand Mall Covered Exhibit/Event Space
- 11 New Covered Viewing Areas
- 12 New Children's Play Area
- 13 New Additional Parking
- 14 Vietnam Fire Base
- 15 New WWII Fire Base
- 16 New Iraq/Afghanistan Fire Base
- 17 New Road
- 18 Boneyard
- 19 New Overflow Parking
- 20 New Additional Entrance
- 21 Planned Restaurant



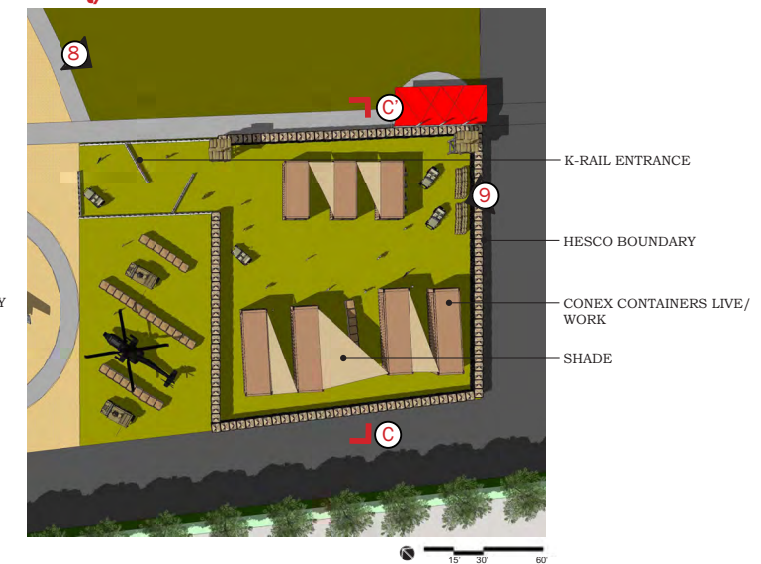
HERITAGE GARDEN



WWII FIRE BASE



IRAQ/AFGHANISTAN OPERATING BASE












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MARCH FIELD AIR MUSEUM

PRESENTATION BOARDS

Heritage Garden



GROUNDCOVER	SHRUBS/GRASS	SUCCULENTS	TREES
 Native Bent Grass <i>Agrostis pallens</i> WUCOL L	 Bush Sunflower <i>Encelia californica</i> WUCOL L	 Deergrass <i>Muhlenbergia rigens</i> WUCOL M	 Black Sage <i>Salvia mellifera</i> WUCOL L
 Century Plant <i>Agave americana</i> WUCOL VL	 Blue Glow Agave <i>Agave 'Blue Glow'</i> WUCOL VL	 Smooth Agave <i>Agave desmetiana</i> WUCOL VL	 Britton dudleya <i>Dudleya brittonii</i> WUCOL L
 Blue Palo Verde <i>Parkinsonia florida</i> WUCOL VL	 African sumac <i>Searsia lancea</i> WUCOL L		



A newly designed garden to honor veterans with grand monuments and reflective, small, intimate spaces.



The courtyard's new design proposes a large gathering space for group tours with ample seating and shade from trees.



A new shaded entry guides visitors to the main entrance.

EXISTING SITE



PRECEDENTS



Veterans Memorial Park, Alexandria, Minnesota. Design includes hierarchy of flag poles and walls, wide pathways, shared experiences, and seating for pause and reflection.

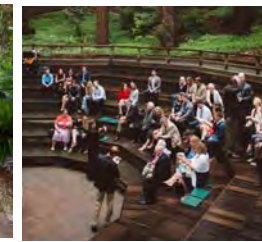
VISION

MOMENTS TO SIT

EDUCATIONAL GATHERINGS



Source: <https://regencywalk.ttu.edu/locations/memorial-garden/>



Source: <https://botanicalgarden.berkeley.edu/rentals/redwood-grove>



Desert Botanical Garden, Phoenix, Arizona. Walls and materials used for seating, and creates rooms for intimate small spaces.

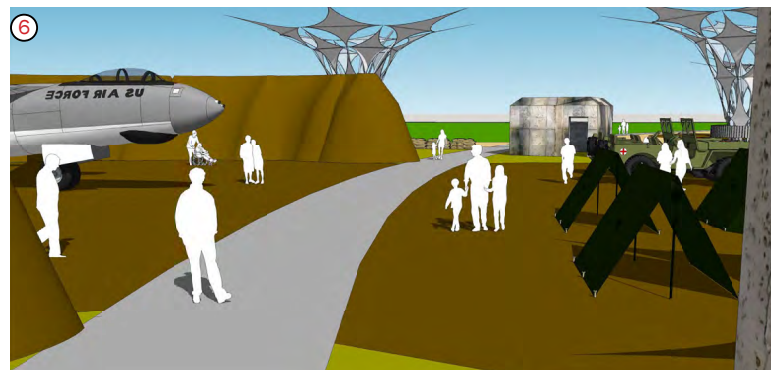
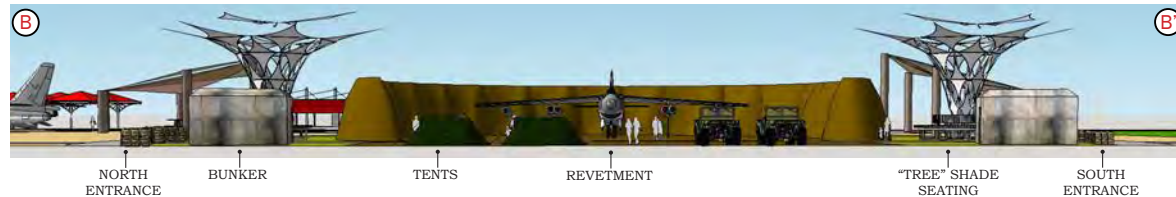


PRESENTATION BOARDS

WWII Fire Base



The revetment and Island Concept connects the WWII Fire Base with the Pacific Theater using a series of islands of exhibits and shaded seating areas that provide a journey of stepping-stones. The new design inspires exploration and evokes remembrance from use of materials, scale, and journey.



A new revetment exhibit used as protection and designed as a display.



Newly added pathways and shade structures to enhance experience.

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INSPIRATION PACIFIC THEATER



ISLAND EXPERIENCE



ON-GROUND EXPERIENCE



Iraq/Afghanistan Operating Base



The new design creates a grand entrance and delineates the space with accurate barriers to provide an intimate, unique experience not commonly found elsewhere.



INSPIRATION MATERIALS



LEADERS



Newly designed series of rooms for close contact with accessible exhibits.

MARCH FIELD AIR MUSEUM