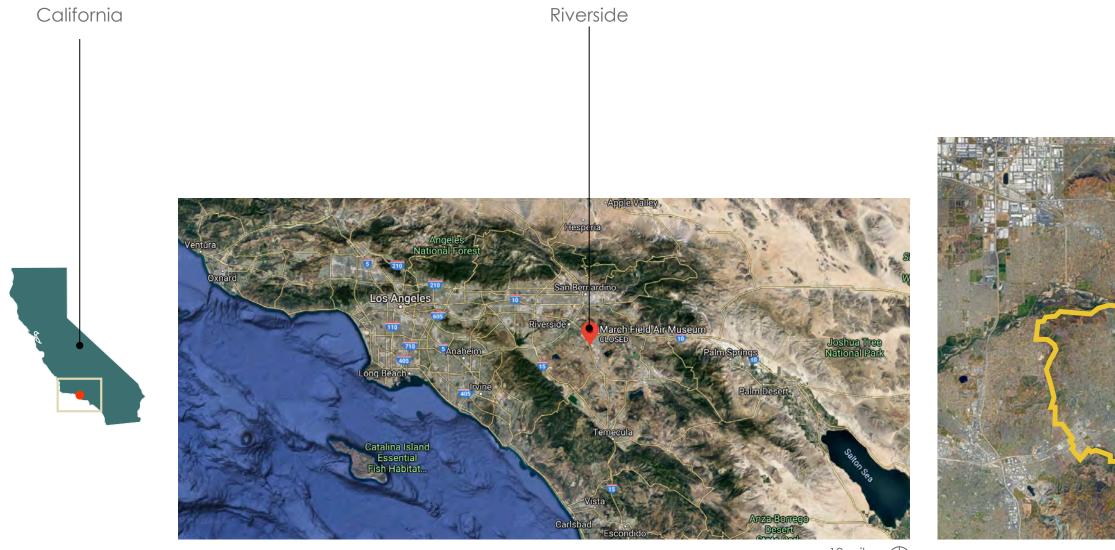


Regina Okasaki de Freitas

Patrick Reynolds and E. Allan Spulecki

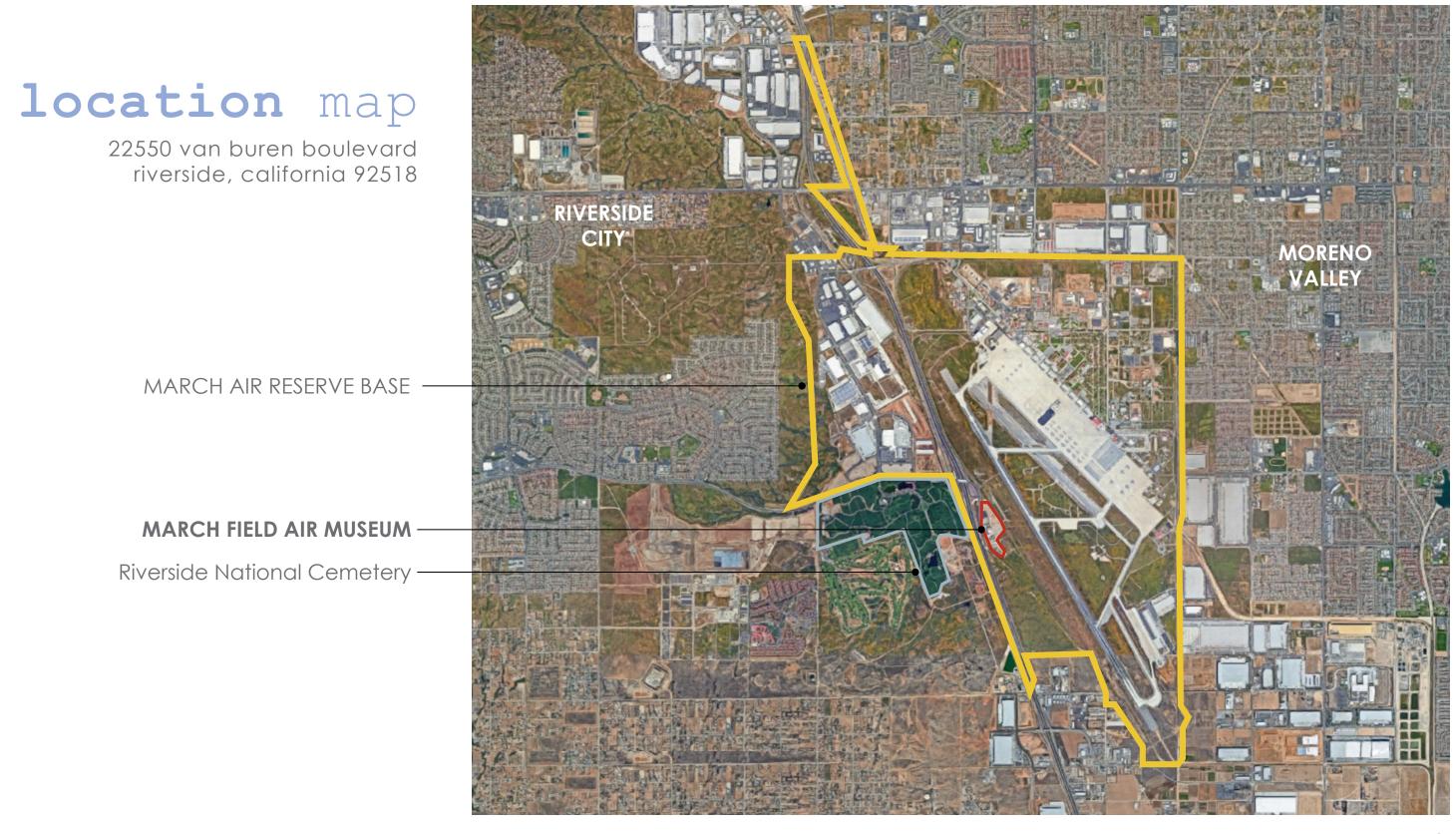


10 miles

### the site

#### March Air Reserve Base





1,000'

## museum **history**





### a brief **history**

The museum was founded in 1979 and today sits adjacent to March Air Reserve Base. The story of the original airbase started in 1918 during a time when the United States was rushing to increase its military training in preparation for World War I. March Air Field was one of the oldest airfields & Air Service training camps operated by the United States military. The March Air Force Base Museum, as it was called, was located on the grounds of the airbase till 1993. In 1996, the government reorganized its military bases and transferred ownership and management responsibilities of the museum to the March Field Museum Foundation.

It also established March as an Air Reserve Base. In May 1999, the museum's official name was changed to the March Field Air Museum to better reflect its broader military aviation focus. The unique site is home to historical Air shows, films, and private events which bring in tens of hundreds of visitors year round. With over 80 aircraft and more than 30,000 individual artifacts, the museum strives to promote an understanding of humanity's reach for the skies and of March Field's pivotal role in the development of flight.



photos and history extracted from March Field Air Museum Website

### statement

The project rethinks the March Field Air Museum space turning it into a destination to the community as well as a tourist attraction. Promoting an educational, experimental, fun and a contemplative experience.







## goals

- turn the museum into a regional attraction
- attract new visitors of all ages with diverse interest
- provide fun, educational and experimental experience for all visitors
- a place where veterans, families and visitors can contemplate
- create spaces that will allow for flexible uses
- increase museum's revenue

## objectives

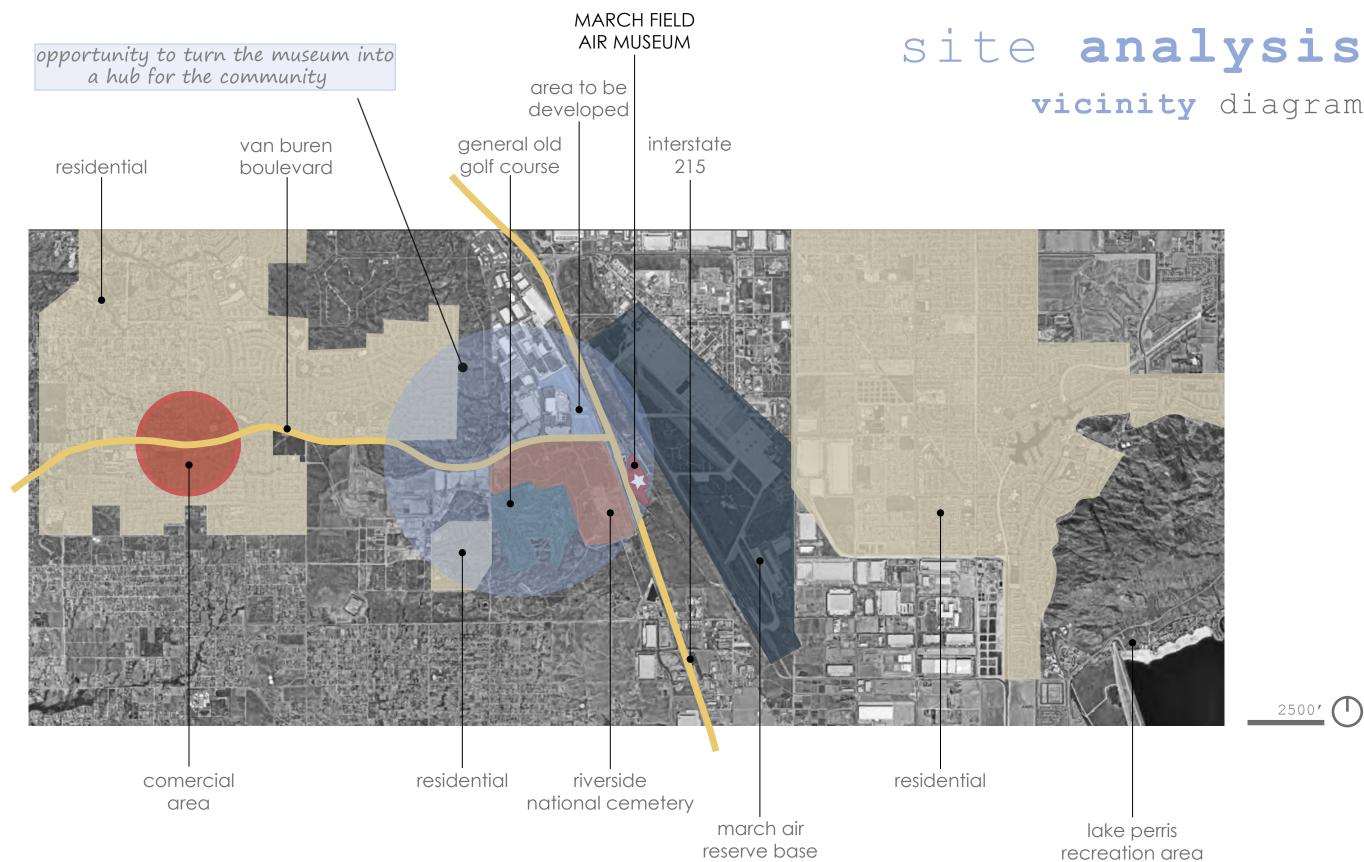
- reduce site temperature
- create a sustainable site specifying native plants suited for the area
- improve circulation of site
- create a designated area for kids
- create spaces for revenue programing
- reimagine the memorial garden
- reimagine the firebases
- upgrade parking lot
- enhance entrance to the museum
- introduce signage to be seen from the road
- seating opportunities, restrooms and water fountain
- address lack of light for evening events



MARCH FIELD AIR MUSEUM . STUDIO PROJECT

6

## site **analysis**



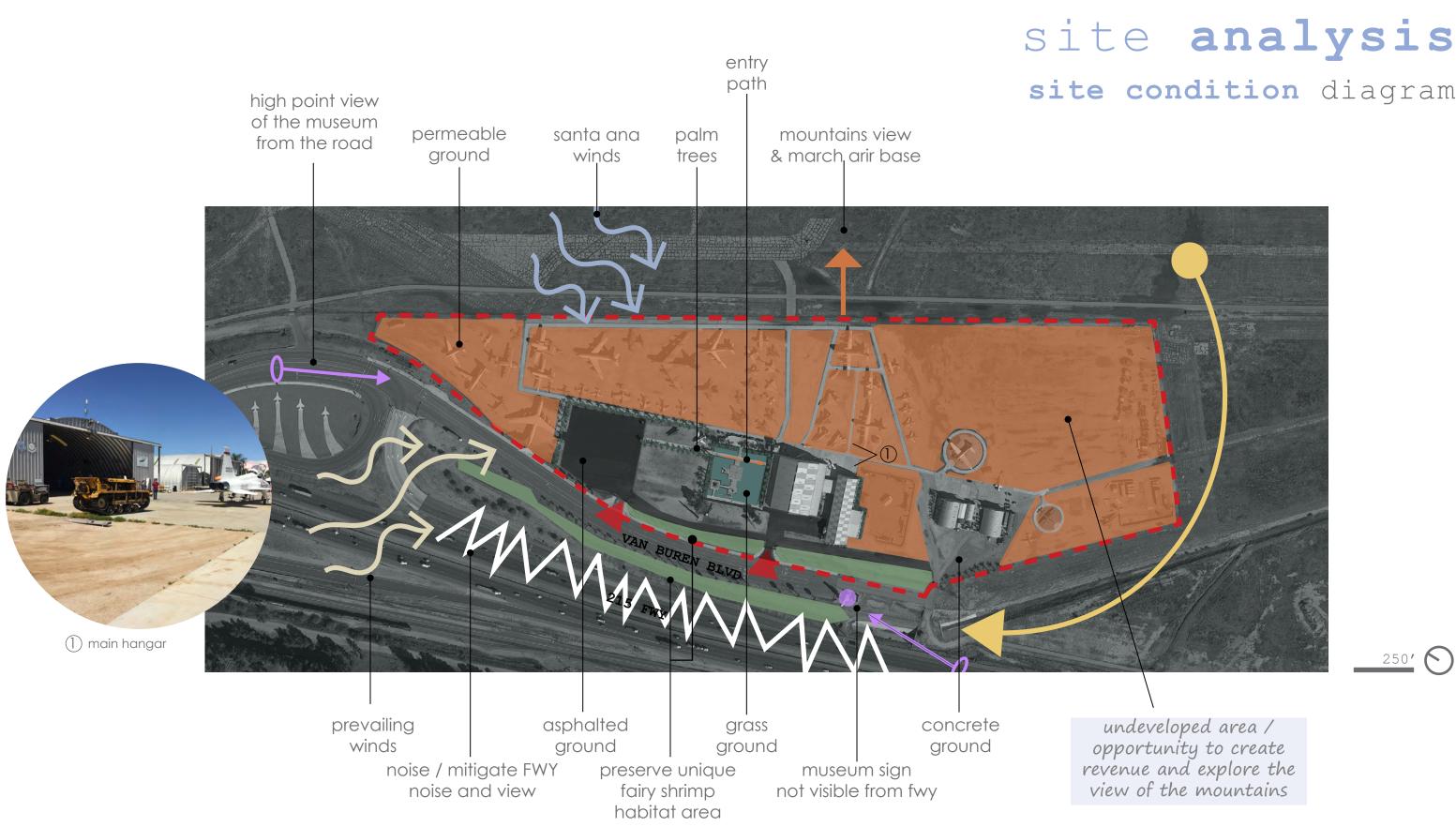
# vicinity diagram

2500'

MARCH FIELD AIR MUSEUM . STUDIO PROJECT

8





# site condition diagram

MARCH FIELD AIR MUSEUM . STUDIO PROJECT 10

250'

### site analysis circulation diagram

develop a more organized circulation in aircraft exhibition area from the road as vehicles approach NA A REAL PROPERTY AND A 215 FWY

enhance view of museum

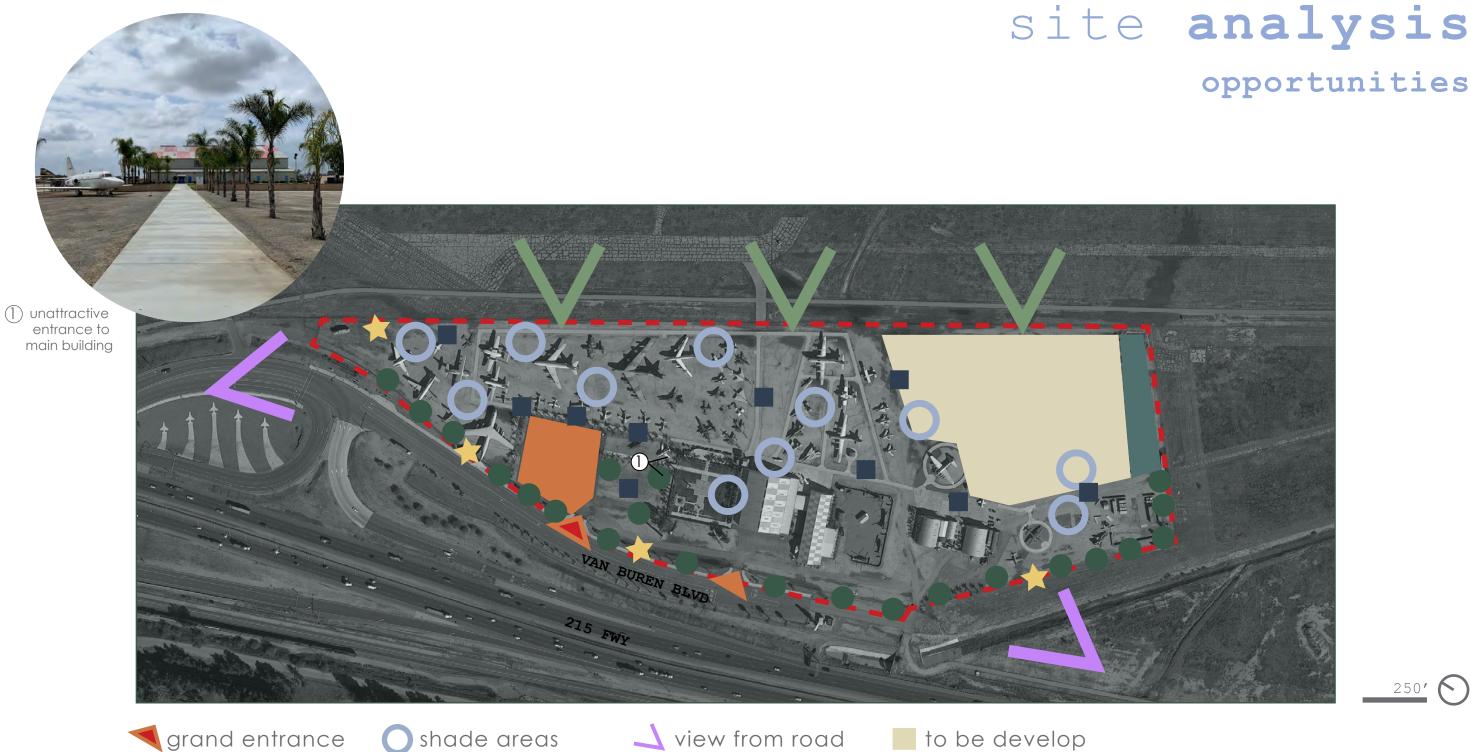
(1) view from the road

vehicle pedestrian ----tram

develop an overall circulation plan that allows for the visitors to explore the different programs the museum offers







V views from

museum

restaurant/

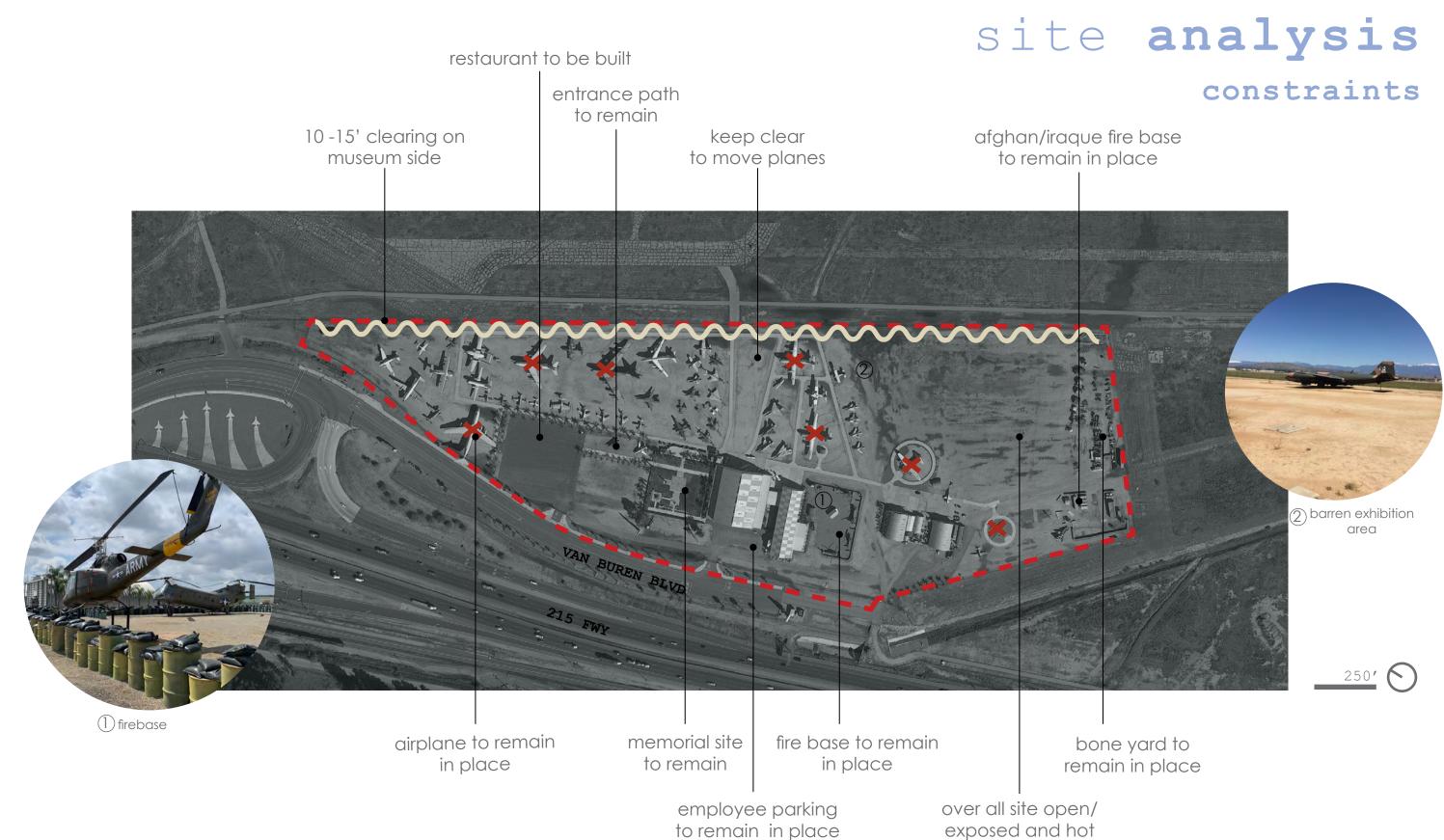
gift shop

bone yard playground to be re-imagined

★ signage

plant possibility

# opportunities



### program

- entrance redesign
- memorial garden reimagined
- event area
- firebases redesign
- youth educational center
- amphitheater
- airshow viewing areas

#### revenue

- restaurant
- giftshop
- cafe and snack shop
- drive-in movie theater
- indoor exhibition pavilion for temporary art shows



- restrooms
- water fountains
- shaded areas
- seating areas
- overflow parking



soldierstone vietnam war memorial, co





museum kroller-muller amphitheater, netherlands

vietnam fire base

### elements

### service

• existing parking redesign

sage scrub

## case **studies**



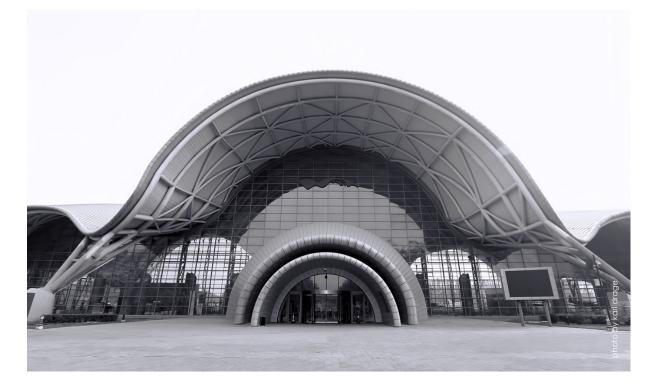




#### **Datangshan Aviation Museum** Beijing

The museum was first opened to the public on 11 November 1989, to celebrate the 40th anniversary of the founding of the People's Liberation Army Air Force. Part of the museum is located inside a cave in the side of Datangshan Mountain.

- interesting display of aircrafts



### case study

• impressive modern façade that resembles an engine





The museum opened in 1920 and remains an active airfield and is used by civilian flying companies, and hosts regular air shows. It is both a family destination and history buffs who want to nose around the inside of a Concorde or learn the mechanics of a biplane.





### case study

• it blends with the country side environment • pleasant integration of elevation and buildings

#### Museu do Amanhã Rio de Janeiro

The sustainable museum was designed by Calatrava and opened in 2015.

- use of solar power & night lighting
- defining a gathering space



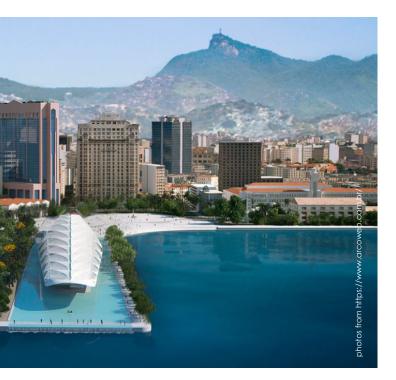






### case study

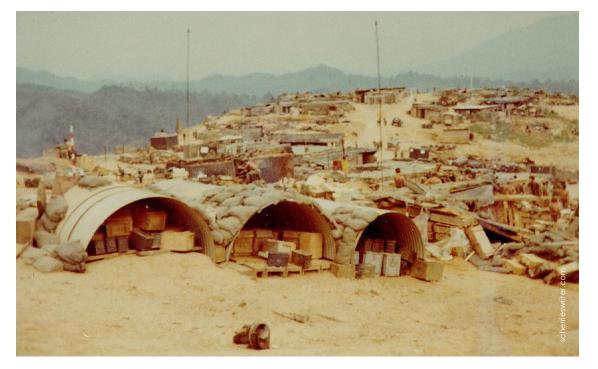
• makes use of water to cool down site • intricate extension of the building creates shade • the circle around a water feature







#### Fire Base





### case study

#### exploring design ideas

• use of flexible materials to build shelter to store gear and sleeping quartes • canopies to create shade • strategic shape of fire base





#### Governors Island recycled adventure playground New York

- playwork encourages risk-taking, experimentation and freedom through self-directed play
- have an adventure





### case **study**

exploring ideas for bone yard

• an opportunity to let kids play, pretend, explore, discover and







#### Drive-in Theater

- entertainment for all ages
- revenue
- events ans as extra parking



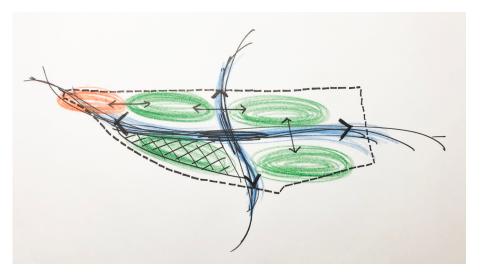
## case **study**

#### exploring outdoor entertainment

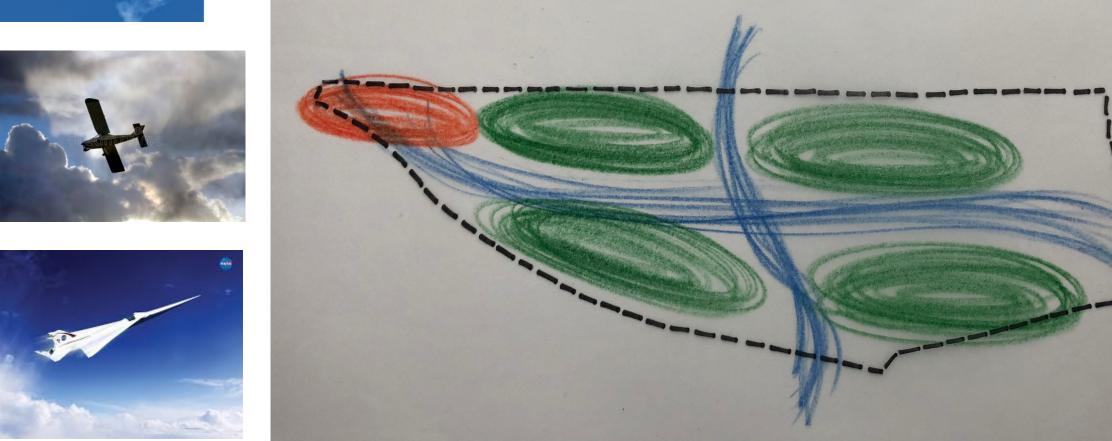
• space can be sused as a drive-in theater, special

## design concept





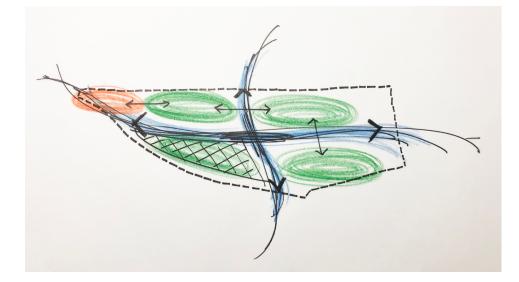
• Looking for inspiration in elements and lines that would contrast with the harsh qualities of the site I was influenced by planes' movement in the sky



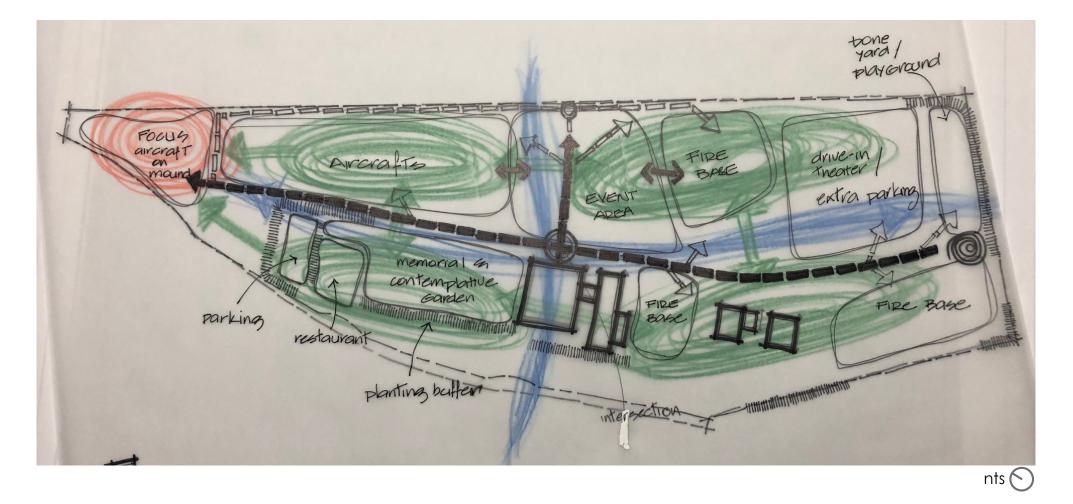
## design concept bubble diagram **A**



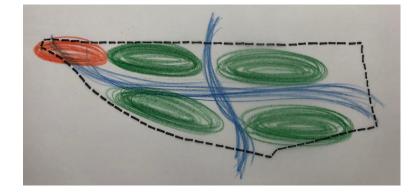




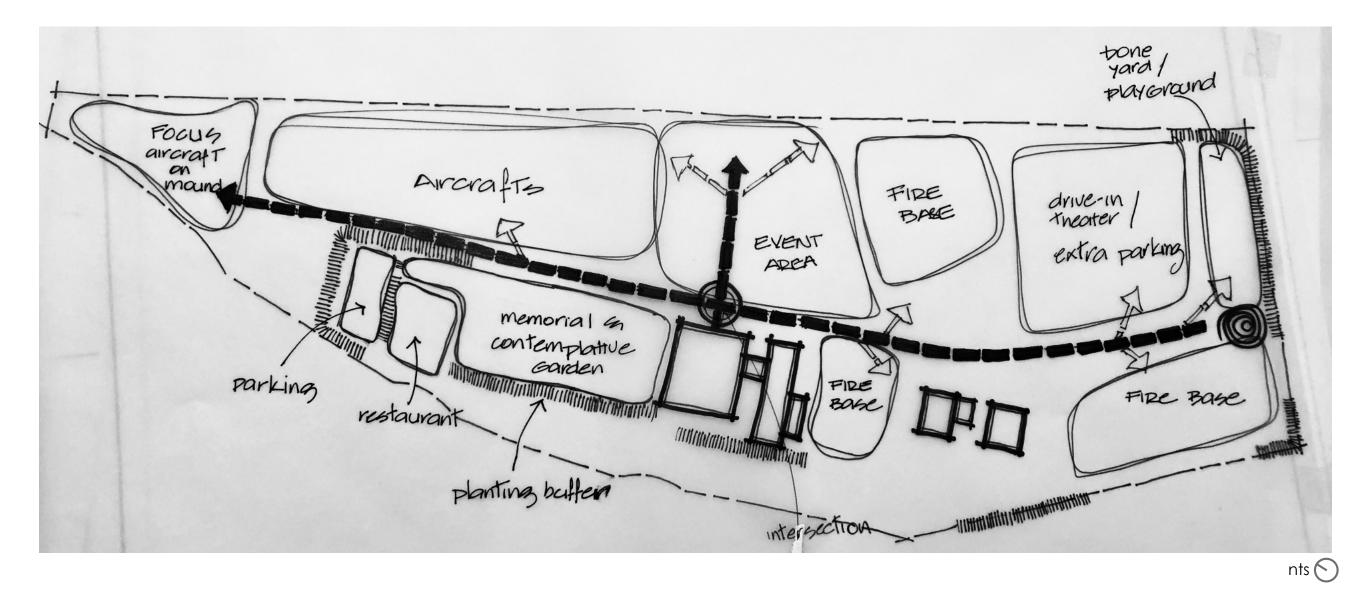
• The lines applied split the site in quartes



## design concept bubble diagram **A**



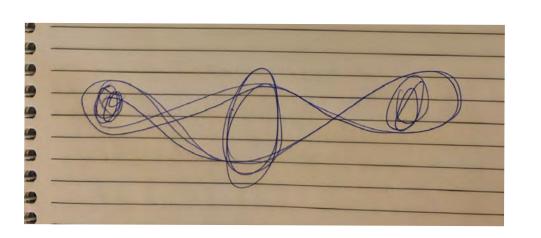
- circulation split the site and created chambers
- through a long path
- the path leads to focus on the highest point of site to the north

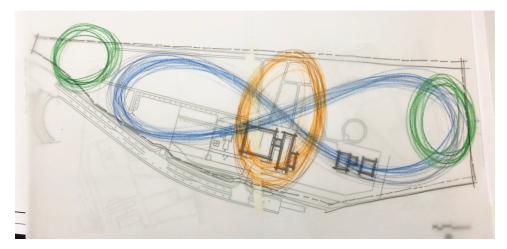


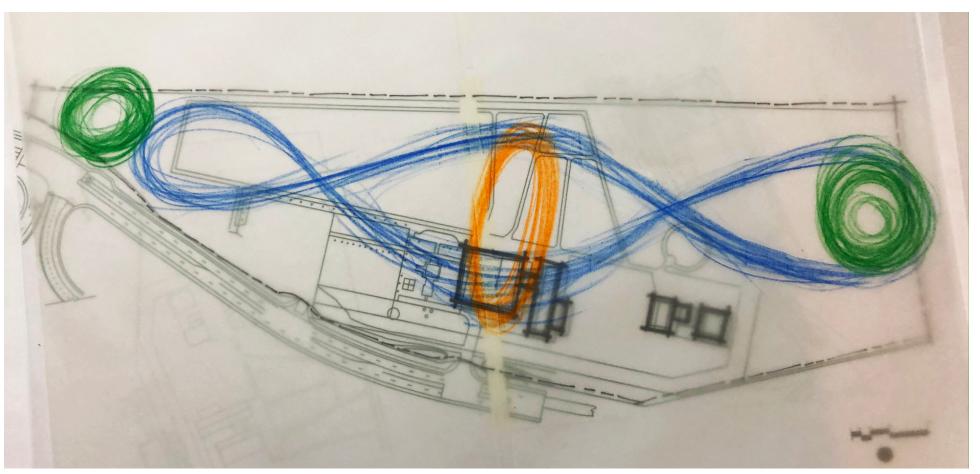
• the chambers connected to the main intersection in front of the main hangar

• looking for elements that motivated movement and playing with hand sketches exercises I came accross a shape that inspired this diagram



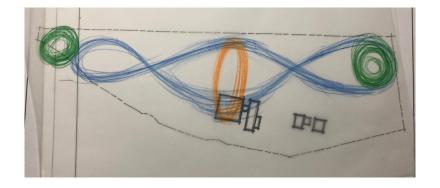




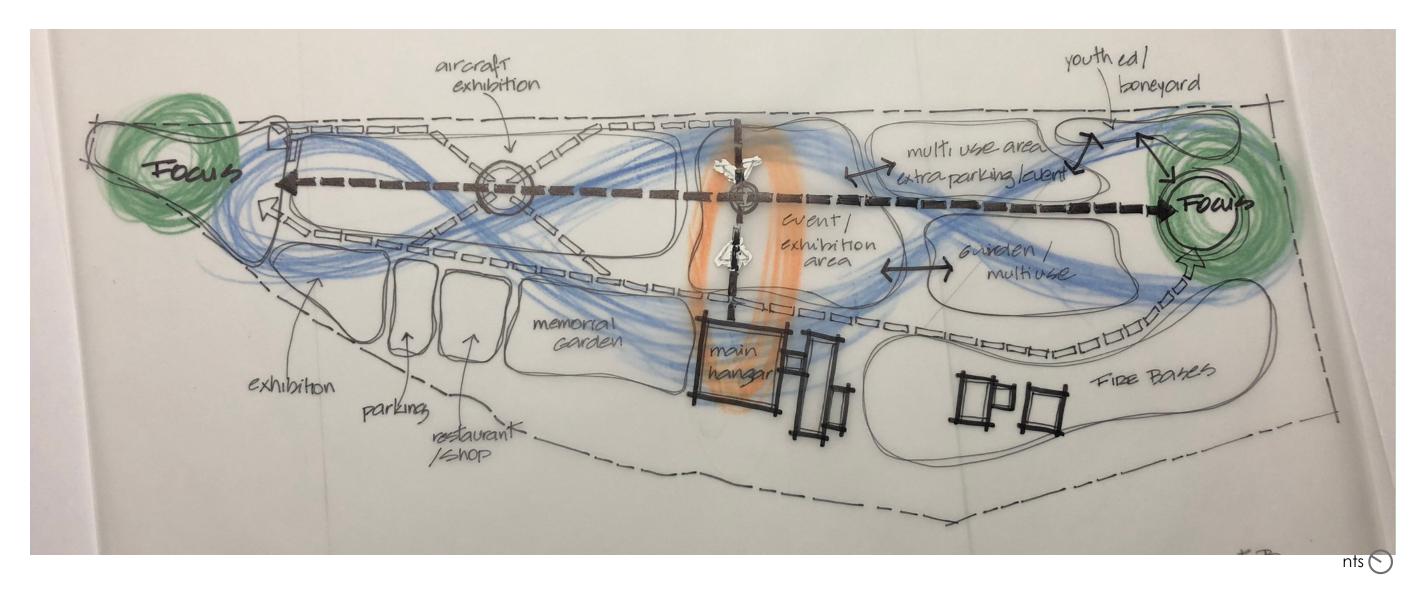


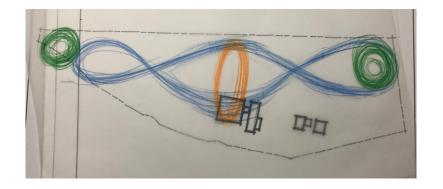
### design concept bubble diagram **B**

nts 🕥

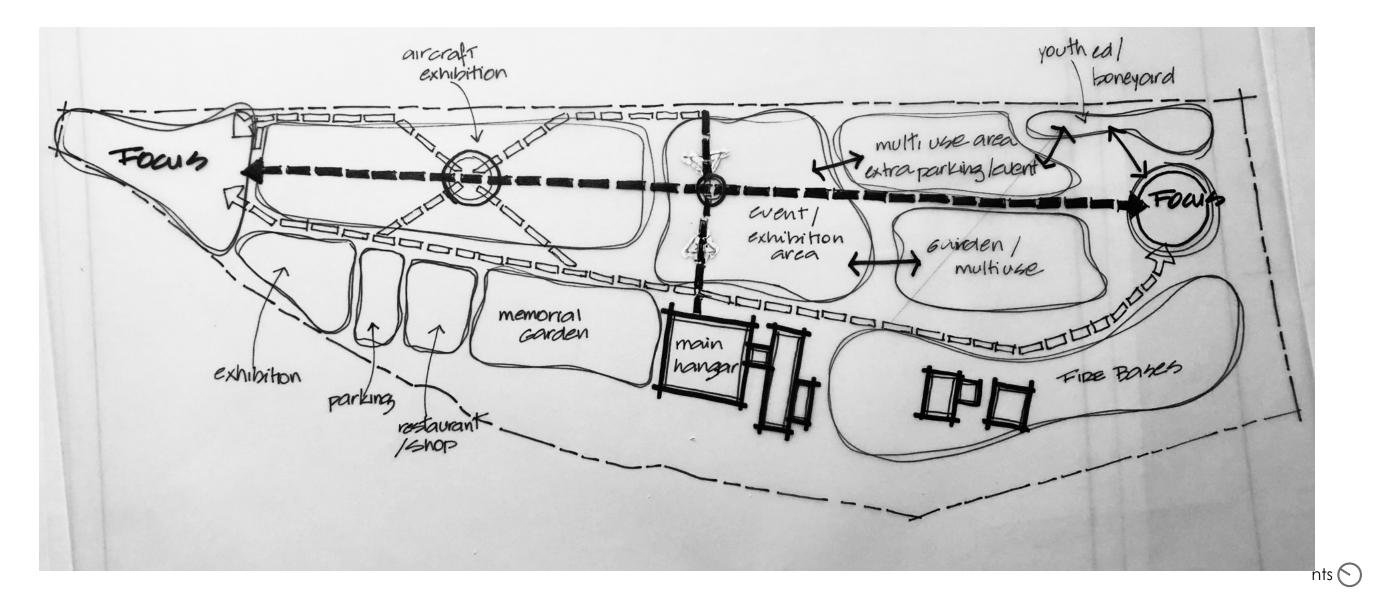


- the result was a circulation with a flow
- the crossing lines resulted in nodes





- there is connection between the different areas
- the nodes along the long path create smaller and more intimate areas
- the long path leads to focus on the highest point of site to the north as well at the low opposite end

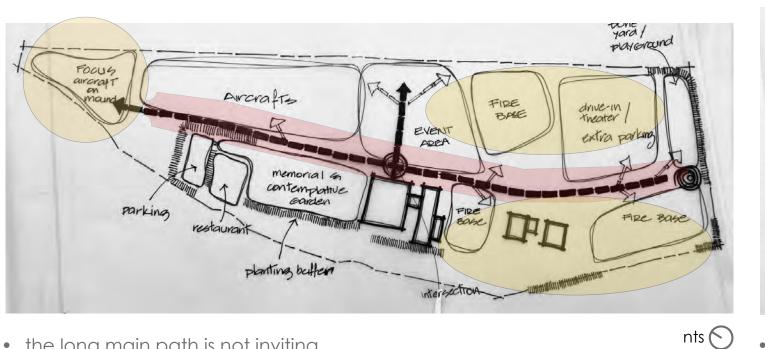


## design concept

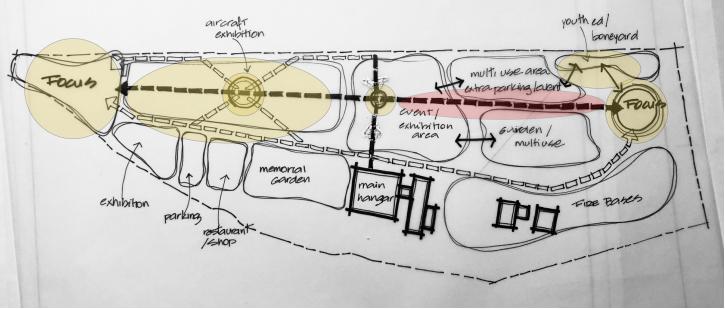
#### bubble diagram **B**

#### bubble diagram A

#### bubble diagram **B**

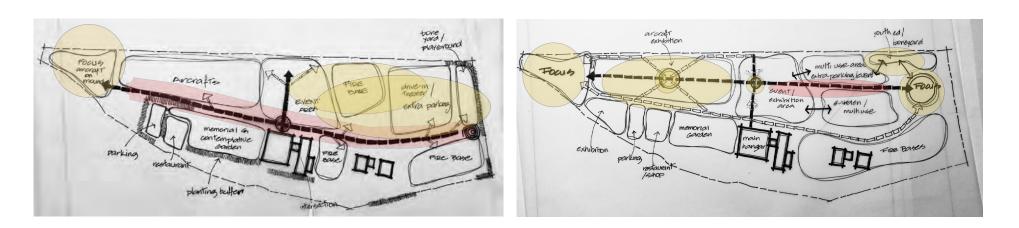


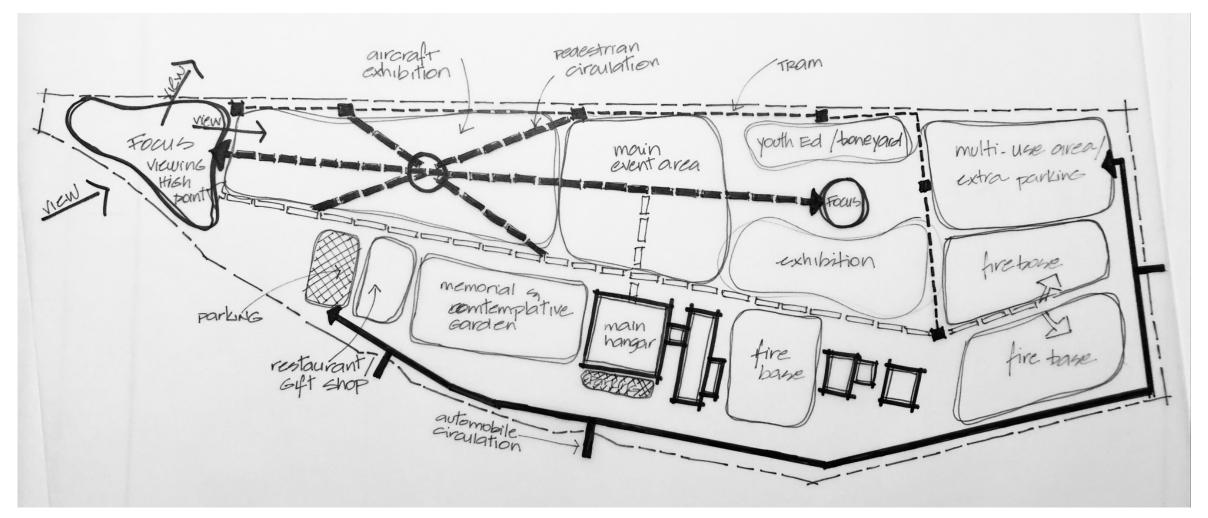
- the long main path is not inviting
- doesn't bring a sense of containment / too expansive to be inviting
- a sense of organization started by spliting the site in quarters



- the south side of the path doesn't organize the area / there is no break
- the main path cutting through the exhibition area with secondary paths crossing diagonally gives a sense of containment

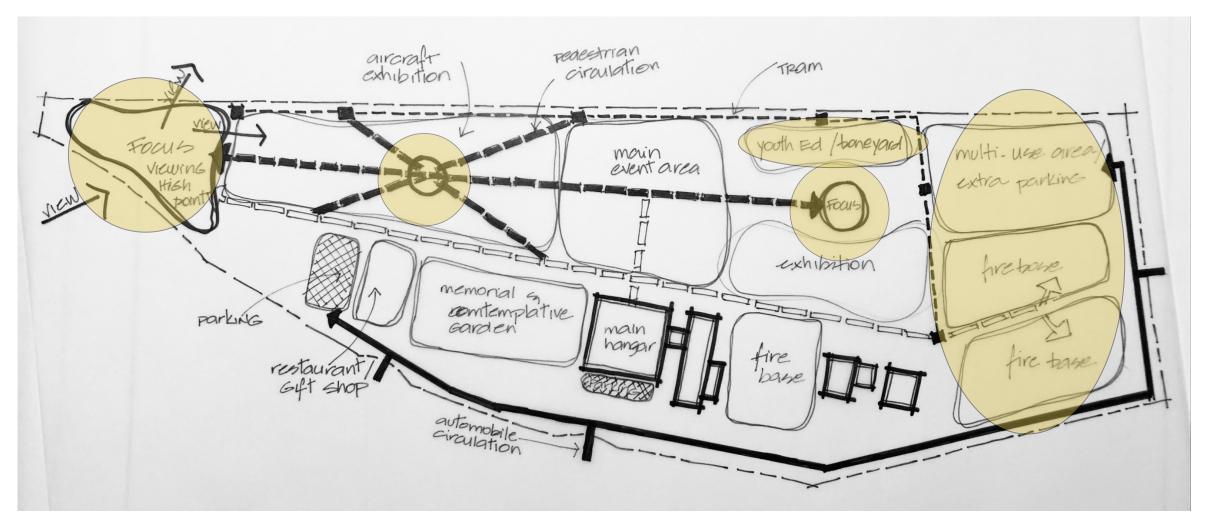
nts 🕥





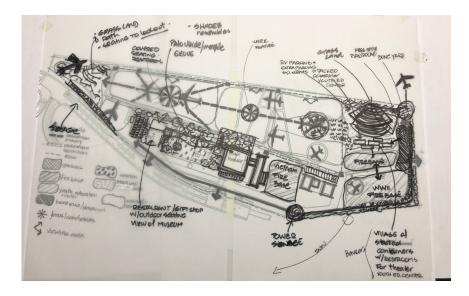
• combining the positive aspects of each diagram a new concept responds to the site needs



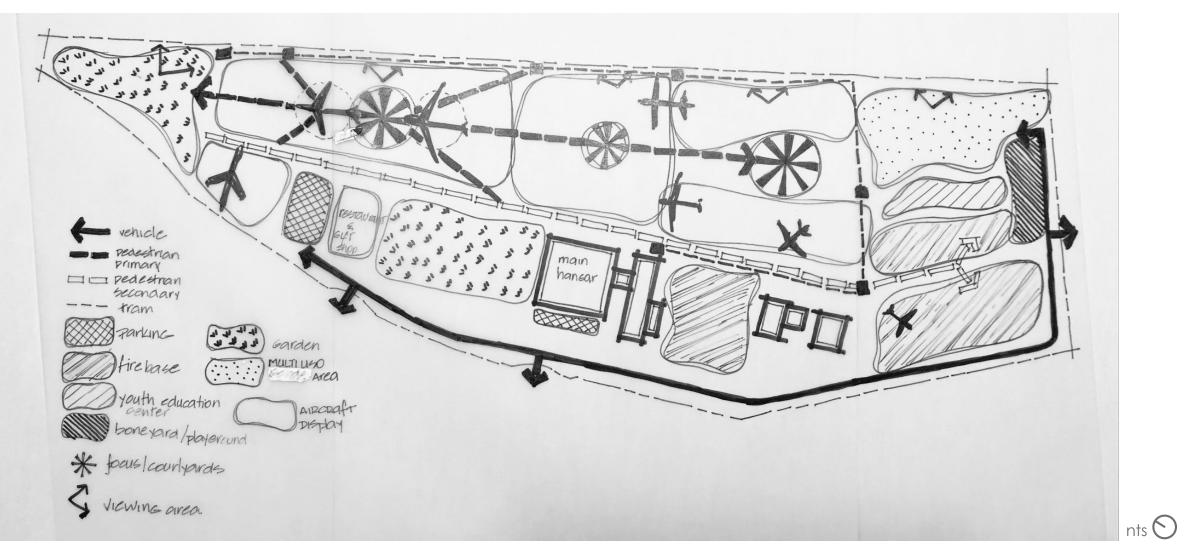


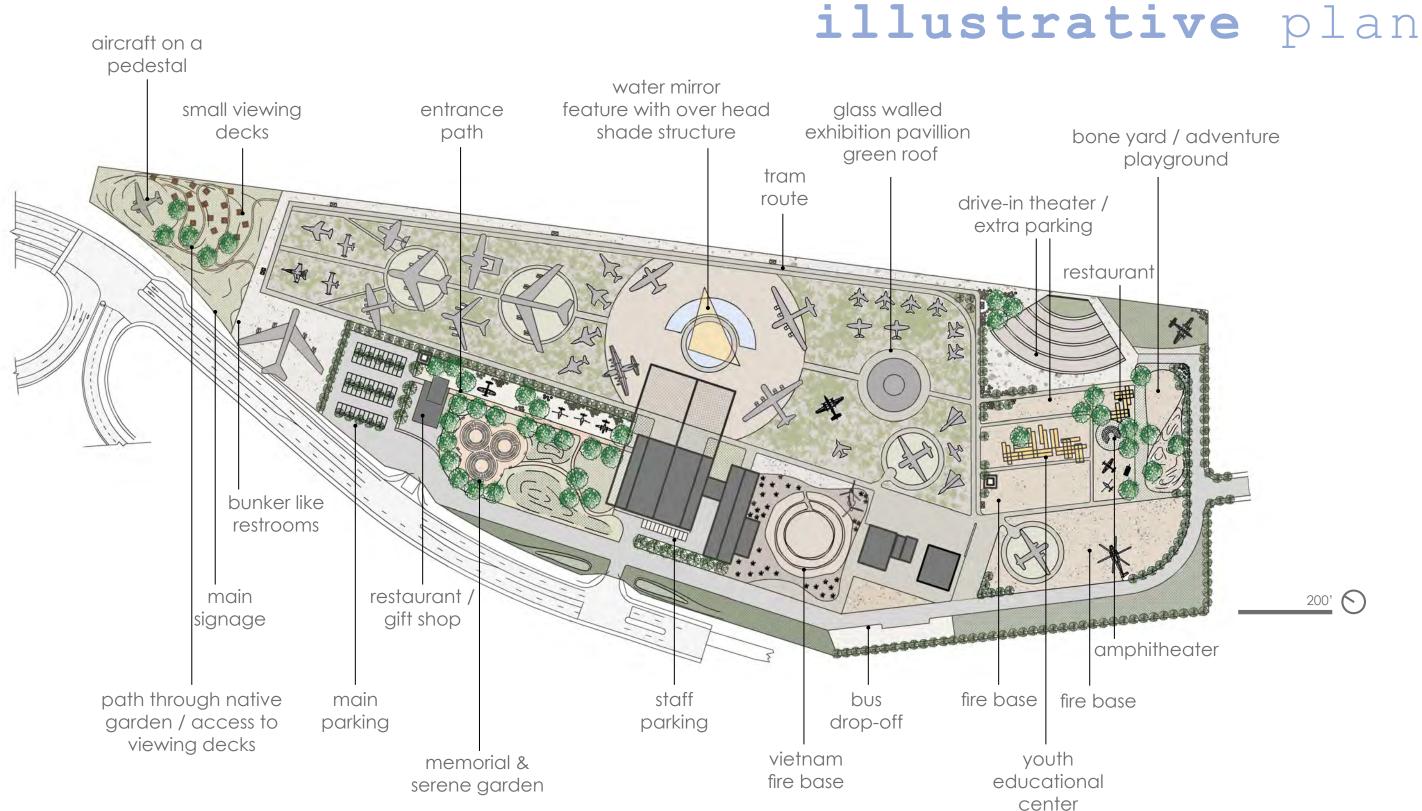
- by shortening the main path and adding nodes, courtyards were created
- the main path is guided by focus on both ends

nts 🕥

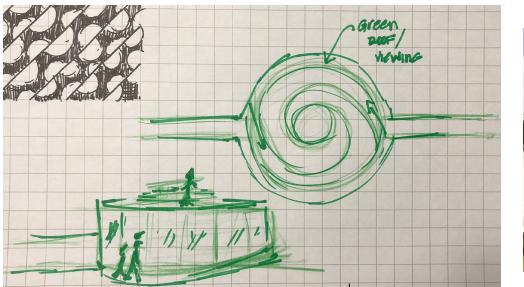


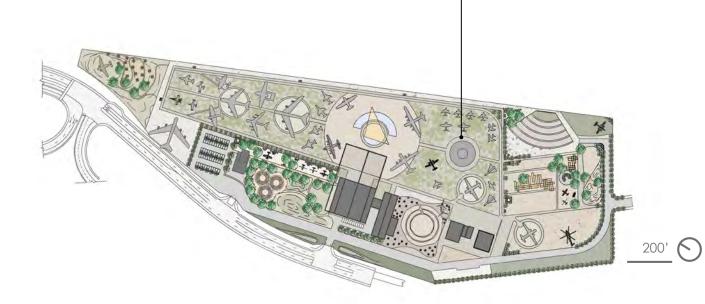
• the result is an organized circulation plan that entices visitors to explore the museum site and its various programs











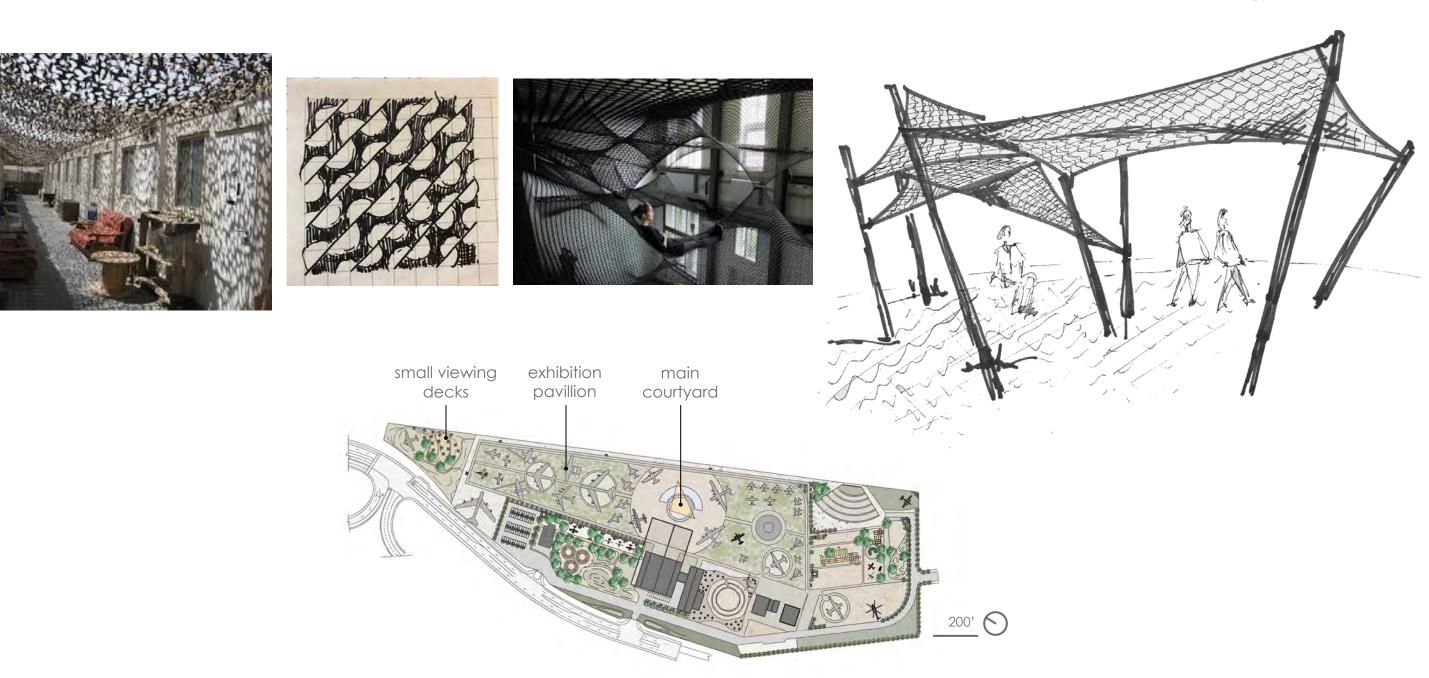
Regina Okasaki de Freitas

....

## inspiration

glass walled exhibition pavillion with a green roof





## inspiration

shade structures through out the site

#### trees



Prosopis chilensis



Parkinsonia aculeata



Yucca shidigera







Ceanothus tomentosus

### native & drought tolerant plant palette

#### grasses & shrubs



Aristida purpurea



Eriodictyon crassifolium



Eriophylum confertiflorum



Opuntia litoralis



Solidago californica

#### annuals









## vignettes & perspectives

岱 松 HUHHH signage & viewing decks memorial & vietnam serene garden firebase



# signage & viewing decks

native flora garden





Van Buren Boulevard

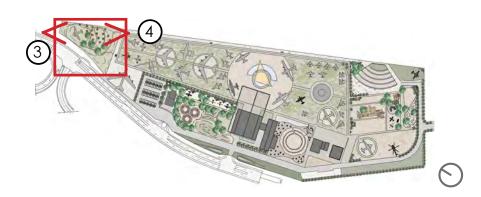
- visitor spots the museum from the freeway
- signage and aircraft view from the street builds up excitment for the visit
- the view of a native garden from the road embelishes the arrival and gets the attention of drivers by

arrival and views from the museum



# signage & viewing decks





arrival and views from the museum

• small viewing decks for airshows or to hang out and appreciate the view • multi use area for events under the aircraft area that is surrounded by trees

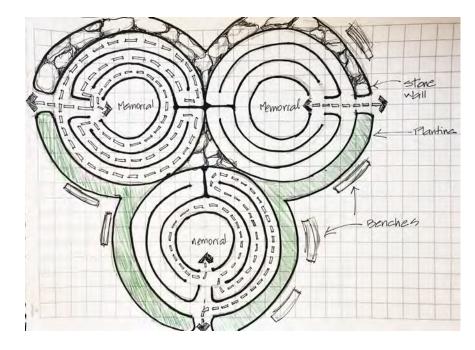
#### memorial garden

a space to honor warriors and contemplate



Vietnam war fire base

American University Washington, DC



"The single path leads to a center that depicts a flower, cross, or other symbol. Then, when you are ready, you retrace the path out of the labyrinth, taking with you resolution, healing, or peace". https://www.prainc.com/a-labyrinth-meditation/

• design inspired by firebase and meditation labirinth shape and concept





Soldierstone Vietnam War Memorial saguache, colorado



memorial at the

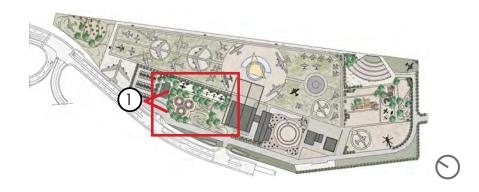
a space to honor warriors and contemplate



path to museum entrance through a grove of palo verde trees

benches to contemplate and enjoy the garden

memorial at the center of a labyrinth path through garden



Hens Win high Kin

were a strated

#### memorial garden

center of a labyrinth



# memorial garden

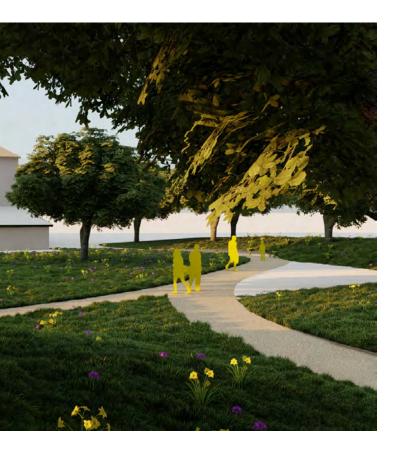
a space to honor warriors and contemplate

#### memorial at the center of a labyrinth



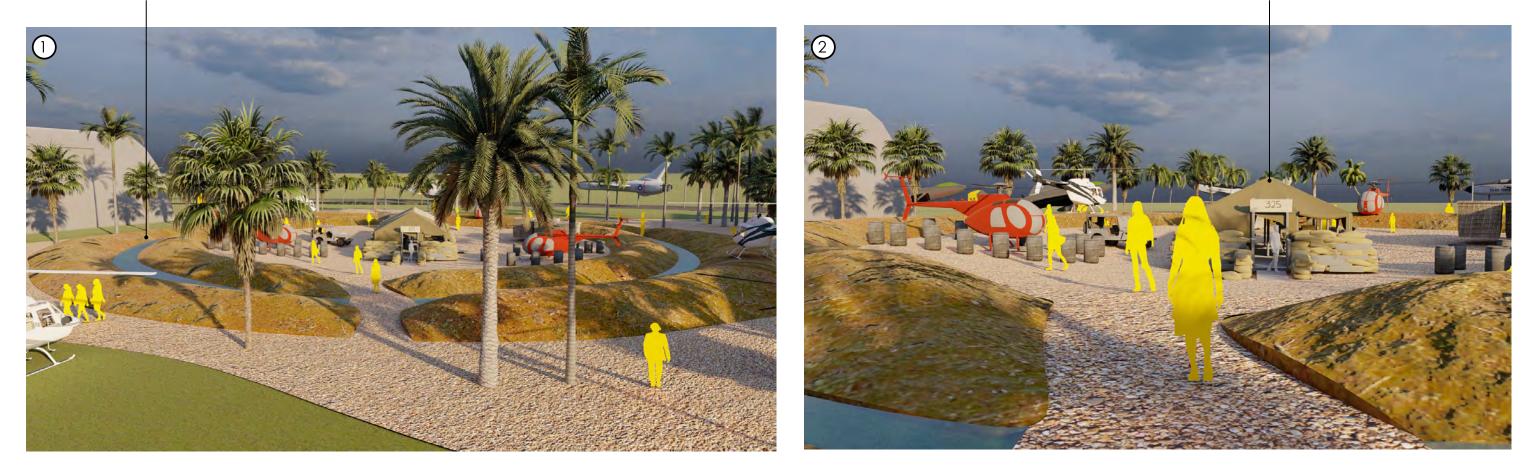
• the memorial garden becomes a serene place to stroll, hang out or just enjoy the garden













- to the desert
- the exhibition in this area focuses on historical helicopters

#### vietnam firebase

experiencing a military encampment

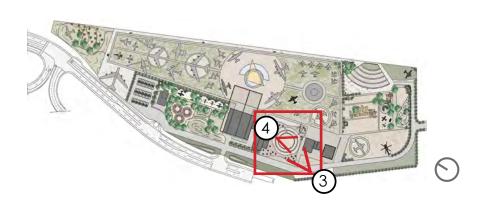
tent / cafe snack bar

• firebase design inspired by the vietnamese landscape bringing the jungle

# vietnam firebase







- the tent can be a fun place to seat and have views of the exhibition
- a tent in the area can turn into a revenue for the museum with a cafe snack bar

experiencing a military encampment

#### youth educational center

• youth educational center complex built with stacked containers 100' LAGGGGGGGGGGGGGGGGGGGGG

discover, learn & explore base



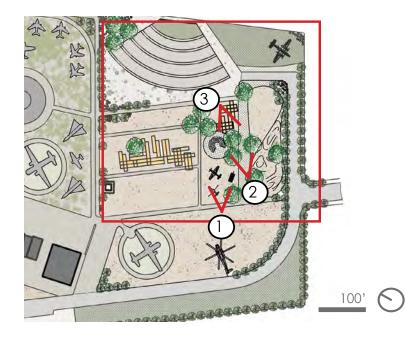
youth educational center

WWII aircraft open for kids to explore

# educational amphitheater







• amphitheater is a social place for events, classes, gatherings and etc.



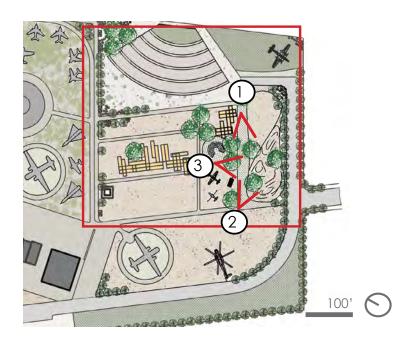
discover, learn & explore base

cafe & restaurant for educational center and movie theater

multi use amphitheater for social programs







• pieces of aircrafts engine and other elements from the bone yard should be spread in free form around the site

cafe & restaurant

- the look of the adventure playground is of an abandoned land
- the free-spirited kind of play allows kids to explore, experiment, pretend and invent their own adventure
- private parties in the playground can increase museum's revenue



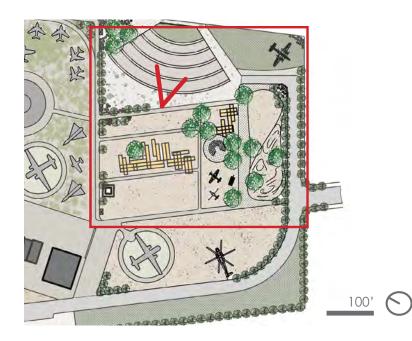
#### adventure playground

discover, learn & explore base

## drive-in movie theater



- a drive in theater is alined with the idea of social distancing
- revenue for the museum
- a program that will attract a wide group of visitors



discover, learn & explore base

a special thanks to Patrick and Allan for their guidance and inspiration

and and

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