

# the MILL

Silicon Valley in the heart of innovation and technology in the world. There is no other place on this planet that celebrates equality, diversity, ambition, well being and hard work as Silicon Valley.

With the expansion of Diridon Station, Arena Green becomes a node. A significant element that can connect Guadalupe River Park to the south as well as connecting Downtown San Jose to the transition hub.

1. Entrance ( Palm colonnade + flower garden)
2. Suns of San Jose Memorial + Peace Garden
3. The tree canopies
4. PV canopy (including a shaded playscape and dog park
5. Waterscape/ fountain
6. Outdoor amphitheater
7. Lawn (for public gatherings such as farmers market, Halloween, marches, protests, etc.)
8. Green hill
9. Tailgate park. Moreover, there is a multipurpose hall provided for public events which is located beneath the tailgate park. Bicycle and pedestrian routes have been reinforced.

At the center of the site, sits the San Jose Mill. The light tower of San Jose consists of a Water Mill which holds a highly advanced vertical urban garden covered with adjustable solar panels.

The water wheel converts the kinetic energy of the water passing through the river into electricity. The circular facades on either side of the tower are covered with programmed solar panels that can adjust to the location of the sun in the sky throughout the year in order to achieve maximize performance.

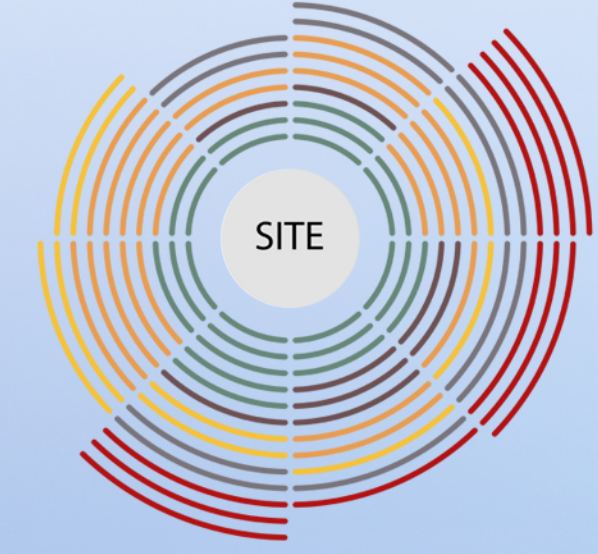
GUADALUPE GARDENS

## SAN JOSE 2040 GREEN BELT

SAN JOSE ARENA

ARENA GREEN

GOOGLE CAMPUS



- PEDESTRIAN**
  - Diridon Station
  - Neighbours
- VIEWS**
  - Views to the Park
- GATHERINGS**
  - Entrance
  - Memorial
  - Creek side
- PAUSE**
  - Entrance
  - Memorial
  - Creek side
- BIKE**
  - Bike route on Site
  - Bike route on surrounding Streets
- NOISE**
  - W Santa Clara Street
  - 27 Freeway

Because of specific adjacencies (SAP Center, DTSJ, Diridon Station, Google future development,...) the park has to be able to provide diverse environments. Therefore, Arena Green has been divided into 9 sections, each being unique in character following their location and adjacencies. The 9 sections consist of:



### TECHNOLOGY

Silicon Valley is the heart of technological advancements in the world



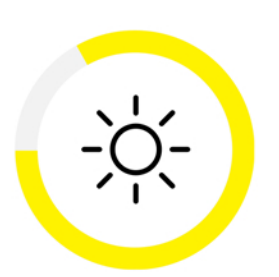
### NATURE

With development of the city of San Jose, residents feel the need of more green space and stronger connection to nature



### COMMUNITY

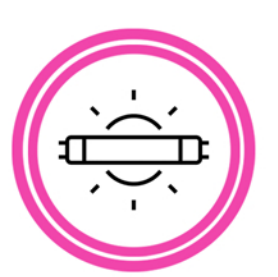
Technology and Nature incorporated into the urban fabric can bring the community together.



1800 hrs / Yr  
5,000 KWhr / Yr  
Adjusting PV Facade  
PV Canopy



25 ft<sup>3</sup> / s  
12,000 KWhr / Yr  
PV Facade  
PV Canopy



LED Lighting  
24 hrs / Day



x400  
More Efficient

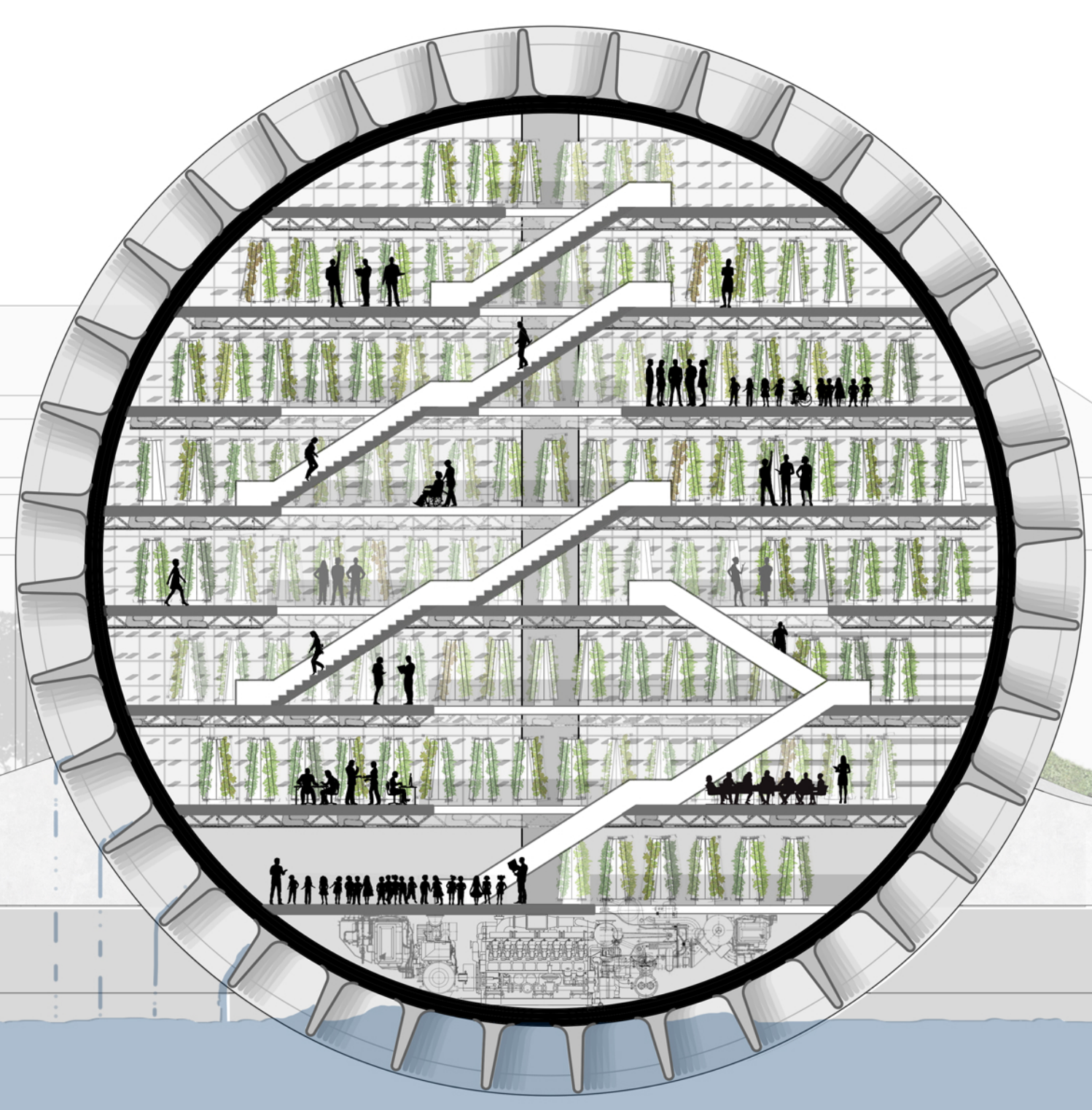


100 %  
Accessible

SAP CENTER

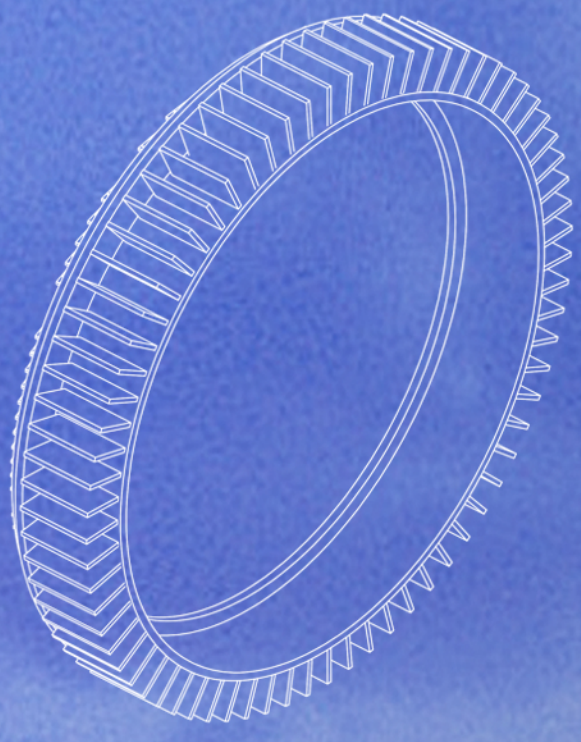
UNDERGROUND  
MULTI-PURPOSE HALL

SHARKS TAILGATE PARK



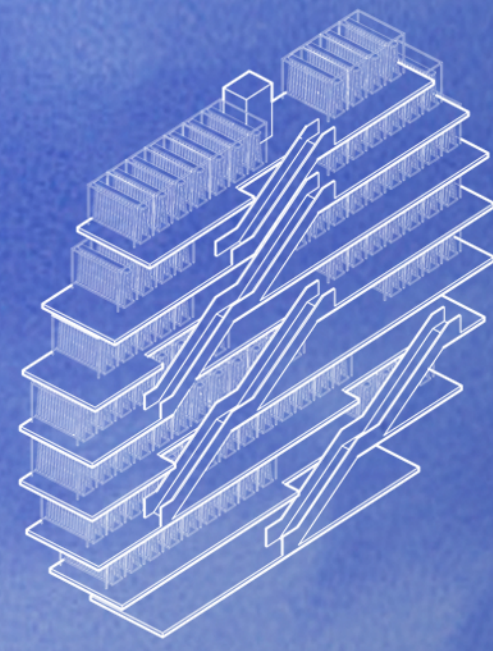
GUADALUPE RIVER

HYDROLIC WHEEL



WATER AND AIR TIGHT WHEEL (TURBINE)

ACCESS AND LEVELS



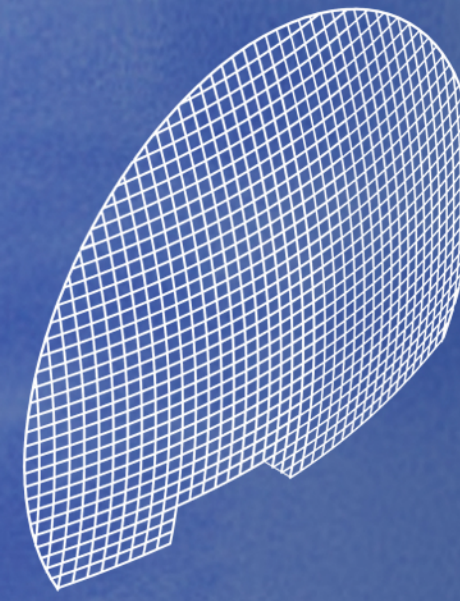
VERTICAL GARDENS LABS AND GATHERING AREAS

FRAME



FRAMES ON EITHER SIDE TO PROVIDE STRUCTURAL SUPPORT

CURTAIN WALL GLASS



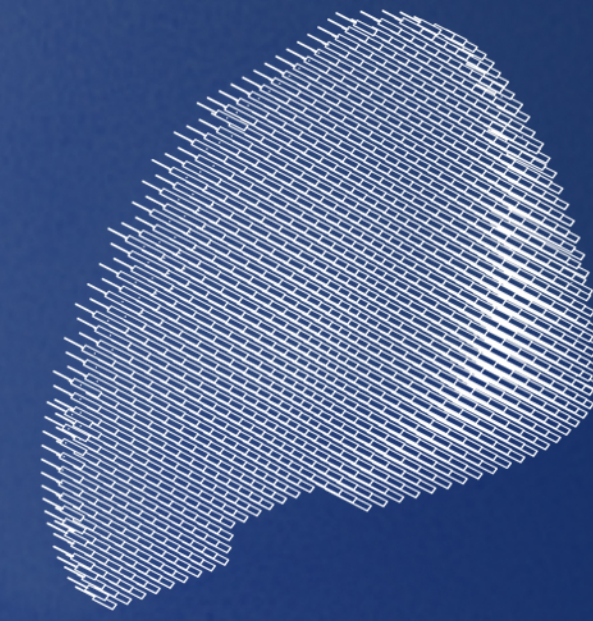
HIGH PERFORMING DOUBLE PANE GLASS WITH AIR CAVITY

MULLIONS



CONNECTING THE SOLAR PANELS GLASS AND FRAME TOGETHER

SOLAR PANNELS



HIGH PERFORMING ADJUSTABLE SOLAR PANNELS HELD BY MECHANICAL RODS

The energy generated by the water wheel and pv panel covered smart facades can keep the LED lights in the garden to be on throughout the year. Furthermore, a portion of the electricity can be directed to the city grid and be used to light the park, adjacent streets and vehicle charging posts.

The garden's sole purpose is not food production. It is a learning tool. It is a destination for schools' field trips, it's a social hub for members of the community to come together and take place in healthy food related activities.

Although the Mill cannot provide power for the entire neighbourhood, or bring equality in access to healthy and organic produce to everyone, it makes one wonder about the infinite qualities that can be introduced to our everyday lives once we bring together the community through technology and nature.



SITE PLAN

