

THE RAINBOW OF SILICON VALLEY

Project Statement

The Rainbow of Silicon Valley is a monumental structure, designed to serve as a symbol for the region—the beating heart of the electronics industry and a place for emergence and growth of creativity and innovation.

This landmark is designed with a minimalistic approach using basic forms to connect the two sides of the river, and to show splendor in simplicity. The structure resembles an eye, looking forward to the future of the planet and the universe.

In this design, there are symbolic dimensions and sizes found in nature and in silicon atoms. There are two very large arches of 200ft height and length of 760ft with a distance of 365ft/111m from one another, representing the silicon atomic radius of 111 picometer. Illumination of the arches at night will turn this monument into a rainbow. The river has been meaningfully used and a beautiful water feature has been designed cascading on both sides of the arches with silver wires in the form of a transparent curtain from the top of the arch to the ground. Rays of light passing through the pouring water create a rainbow effect.

Between the two arches, a 165ft diameter sphere is designed to symbolize the planet earth. Inside the sphere, there are recreation areas, restaurants, bars, cafes, a museum, a gift shop, meeting areas, and a children's playground. The floors are connected by a 360-degree ramp going all the way up to the observatory deck, revealing a beautiful panoramic view of the city.

The sphere shell is made up of 14 orbits, representing the atomic number of the silicon and the geometric shape of the molecules. Different shapes can be made by lighting up the sphere at night. A tuned mass damper is placed at the center to reduce vibrations and increase seismic resilience of the structure.

For access on both sides of the site, there are two corridors with elevators, escalators, staircases, and ramps, with a path for disabled people. The visitors climb about 26ft from the ground in a spiral ramp or in elevators reaching a rest area, and entering the corridor leading to the sphere. These passages are covered with 24ftx1000ft of solar panels providing an immense power generation capability to make this landmark a net-zero, sustainable structure.

Using simple elements, natural phenomena and modern technology, this work belongs to the past and present and will retain its novelty in future.