FAIRMOUNT SCHOOL OF ART AND **ECOLOGY**

The Fairmount School of Art and Ecology provides a to personally and academically benefit each features provide learning opportunities for the





BASIC SHAPE

Basic shapes are

utilized to inform

SECOND FLOOR PLAN

DESIGN FOR WELL-BEING M7

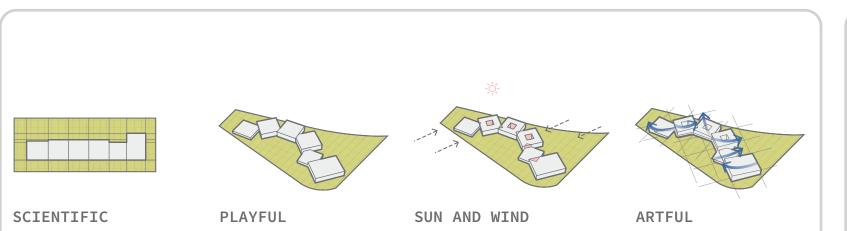
MASSING AND FORM

students of fundamental

geometric principles.

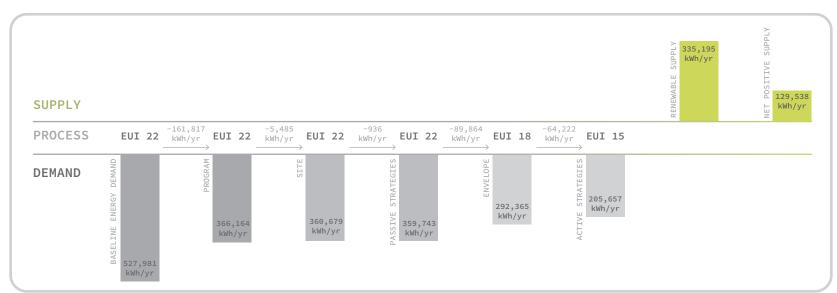
MASSING DEVELOPMENT M1

The massing of the Fairmount School of Art and Ecology is derived from four steps: a scientific grid, a playful articulation of that grid, response of the sun and wind, and, lastly, and artfully composed angled roofs. This massing gives attention to site considerations while embodying the quality of an ecological and artful school.



DESIGN FOR ENERGY THROUGH THE DESIGN PROCESS M6

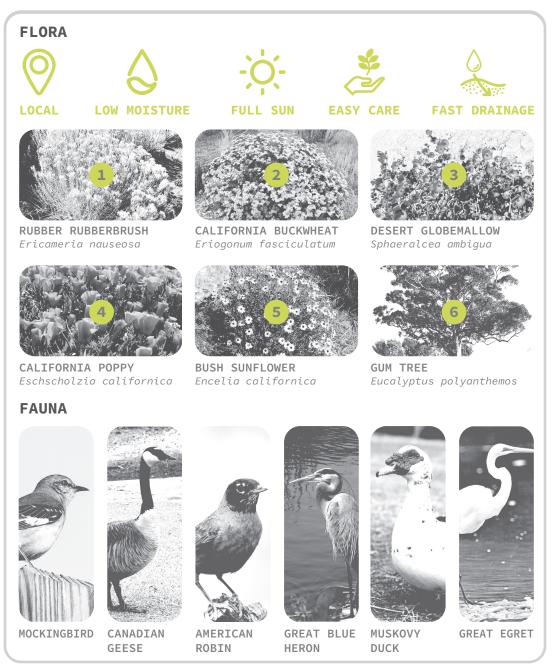
Energy conservation played a salient role in the design process through a series of considerations to reduce energy demand. This process included an optimization of program and site orientation, the integration of passive strategies, and performance improvement of the envelope and building systems.





DESIGN FOR ECOSYSTEMS M3

The site adopts local flora which reduces water usage due to the plants' natural feature allows the site to become an extension of the park.



SITE HAZARDS M1 DESIGN FOR EQUITABLE COMMUNITY M2 The site experiences air pollution,

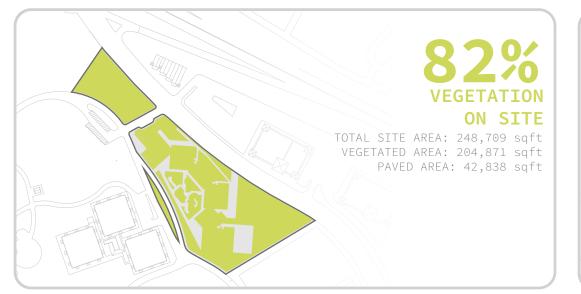
noise from freeways, and fault lines

The school lies near the heart of Riverside, California in Downtown Riverside, a significant piece of the Inland Empire's urban fabric. The strategic location of the school improves the equity of access for Riverside's community as an avenue to these crucial, public amenities, encouraging development of transportation infrastructure for walking, transit, and biking.



VEGETATION ON SITE M3

The school buffers the boundary of undeveloped and highly developed land both visually and acoustically. Its intermediary position also protects the local habitats in the park and expands the native plant species onto the site.



understandings of mathematical concept of transparency. unit to whole. 1 RECEPTION 2 COUNSELOR OFFICE 3 FINANCIAL OFFICE 4 PRINCIPLE OFFICE 5 VICE PRINCIPLE OFF 6 CONFERENCE ROOM 7 MECHANICAL ROOM 8 RESTROOMS 9 LEARNING RESOURCE CENTER 10 LEARNING RESOURCE OFFICE 11 LEARNING STUDIO 12 SMALL GROUP SPACE 13 INSTRUCTOR COLLABORATION SPACE 14 COLLABORATION SPACE 15 MAKERSPACE 16 ATRIUM 17 DINING COMMONS 18 SERVING AREA **19** STORAGE

FIRST FLOOR PLAN A

MODULARITY OF

LEARNING SPACE

The modularity of the

learning communities

understanding of the

encourages students

DESIGN FOR ECONOMY M5

25 HARDSCAPE

20 WARMING KITCHEN

21 OUTDOOR DINING

22 FITNESS STUDIO 23 OUTDOOR CLASSROOM

24 LEARNING GARDEN

INDOOR-OUTDOOR

for the students to

frequent opportunities

CONNECTIVITY

Due to the economical conditions of California, the average cost of a public elementary school is \$450/sqft. Three initial design decisions were made to limit project costs. These included the use of exterior circulation, outdoor learning spaces, and spaces

MATERIALITY

TRANSPARENCIES

materiality: wood,

The three variants of

polycarbonate, and low-e

glass, offer educational

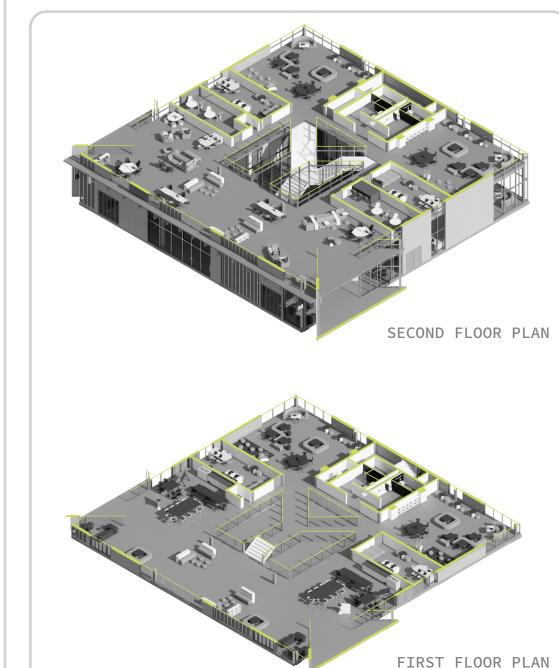
with flexible programmatic use. The total savings of these decisions reach nearly 15 and a half million dollars. OUTDOOR CIRCULATION: 7,452 sqft COST REDUCTION: \$3,353,490 ■ OUTDOOR LEARNING SPACES: 23,874 sqft COST REDUCTION: \$10,743,439 PROGRAM FLEXIBILITY: 3,000 sqft COST REDUCTION: \$1,350,000

\$15,446,92

The curtainwalls throughout the facades of the school offer expansive views of the park and surrounding site. This provides a sense of connection between the indoor and outdoor experiences which enhance students' overall well-being and cognitive abilities. This indoor and outdoor connectivity also helps the overall air quality as the natural flora purifies the air of the school environment.



DESIGN FOR CHANGE M9 Differing from the factory-based classroom model, the modularity and adaptable furniture in the learning communities offer flexibility to accommodate greater amounts of students and welcome future population changes.



DAYLIGHTING ANALYSIS M7 For the daylighting, the learning communities is mostly well-lit. The daylight permeates each space through the central atrium and exterior glazing. This provides

adequate daylighting to ensure the wellness of the students.



30% OVERLIT

1% UNDERLIT FIRST FLOOR PLAN

SECOND FLOOR PLAN

49% WELL LIT **sDA:** 65% **ASE:** 21% **sDA:** 93% **ASE:** 39%

