

# 21<sup>ST</sup> CENTURY LIBRARY and Community Learning Center for **HAYWARD**

## CITY OF HAYWARD

### **SEAN REINHART**

Director of Library  
& Community Services

### **MORAD FAKHRAI**

Director of Public Works,  
Engineering & Transportation

### **YAW OWUSU**

Assistant City Engineer

### **KEVIN BRIGGS**

Project Manager

## NOLL & TAM ARCHITECTS

### **CHRISTOPHER NOLL**

Principal

### **SCOTT SALGE**

Project Manager

### **ABRAHAM JAYSON**

Project Architect

### **TRINA GOODWIN**

Interiors Architect

### **KATIE STUART**

Designer

## rhaa LANDSCAPE ARCHITECTS

### **MANUELA KING**

Principal

### **JACOB MILLARD**

Associate, Project Manager

### **LAUREN MCLURE**

Assisting Designer

### **ROBIN KIM**

Assisting Designer



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**HAYWARD CITY COUNCIL**

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## 2008 – 2014 PROJECT BACKGROUND

- Community needs analysis Report – City Council Presentation (2008)
- Site Recommendations to Council – Library Commission (2008)
- Community Focus Groups develop “**Open Space**” Plaza Concepts (2008)
- Building New Library Program Report (2010)
- Preliminary Design Concepts – City Council / Library Commission (2010)
  - Selection of “**Heart of the City**” Concept
- Calpine Corporation Donates \$10 million to the Library Project (2011)
- Survey – Bond Measure Feasibility (2011)
- Bay Area Library rankings by size (2012)
- Conceptual Design Approach - City Council Presentation(July 2013)
  - “**Heart of the City**” and “**Open Plaza**” Concepts
- Measure C Passed by Hayward Voters with a 2-to1 Margin (June 2014)
- Design Development Presentation – City Council (November 18<sup>th</sup> 2014)

# 2014 COMMUNITY AND STAKEHOLDER OUTREACH

## FEBRUARY

- Hayward Library Commission Presentation (24<sup>TH</sup>)

## MARCH

- Hayward Planning Pre-Application Meeting (5<sup>TH</sup>)
- Hayward Library Staff “All Hands” Presentation (27<sup>TH</sup>)

## APRIL

- Civic Plaza Visioning – City Staff Meeting (7<sup>TH</sup>)
- City Staff/Design Team Sustainability Meeting (9<sup>TH</sup>)  
Development of project “Rainwater Catchment” Goals

## MAY

- Schematic Library Design – Community Discussion (1<sup>ST</sup>)
- Heritage Plaza Concepts – City Staff Meeting (8<sup>TH</sup>)
- Heritage Plaza Design – Community Discussion (31<sup>ST</sup>)



Community Presentation, May 1<sup>ST</sup>



Plaza Comments/Input, May 31<sup>ST</sup>



Youth Design Team, June 18<sup>TH</sup>

## DESIGN OUTREACH

# 2014 COMMUNITY AND STAKEHOLDER OUTREACH

## JUNE

- Youth Design Team Meetings (18<sup>TH</sup> and 25<sup>th</sup>)
- City Council Schematic Design Presentation (24<sup>th</sup>)  
Preferred “Plaza” Concept and Library Design
- Completion of Schematic Design Package (25<sup>th</sup>)

## JULY

- Youth Design Library Tour (16<sup>th</sup>)
- Youth Design Team Wrap-up Meeting (23<sup>rd</sup>)

## SEPTEMBER

- Bay Area Libraries Tour with Library Commission (13<sup>th</sup>)
- Library Design - Library Commission Meeting (15<sup>th</sup>)

## OCTOBER

- Hayward Library Staff “All Hands” Presentation (2<sup>nd</sup>)
- Library Design Development – Community Meeting (2<sup>nd</sup>)
- Civic Plaza Design – Community Meeting (11<sup>th</sup>)
- Draft CEQA Submitted for City Staff Review (30<sup>th</sup>)



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Community Presentation, Oct 2nd

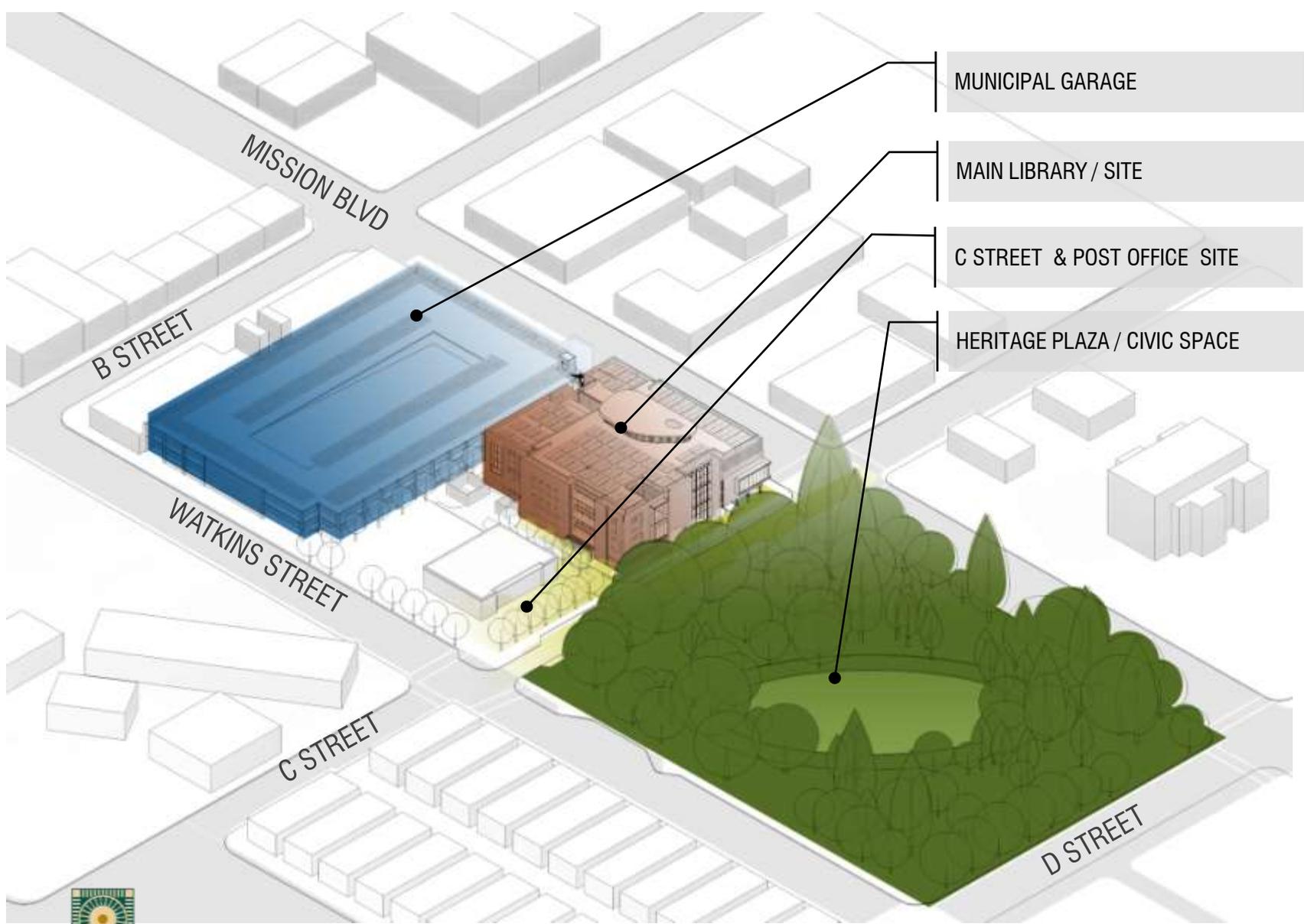


Plaza Comments/Input, Oct 11th



Youth Design Team, July 23rd

## DESIGN OUTREACH



MUNICIPAL GARAGE

MAIN LIBRARY / SITE

C STREET & POST OFFICE SITE

HERITAGE PLAZA / CIVIC SPACE

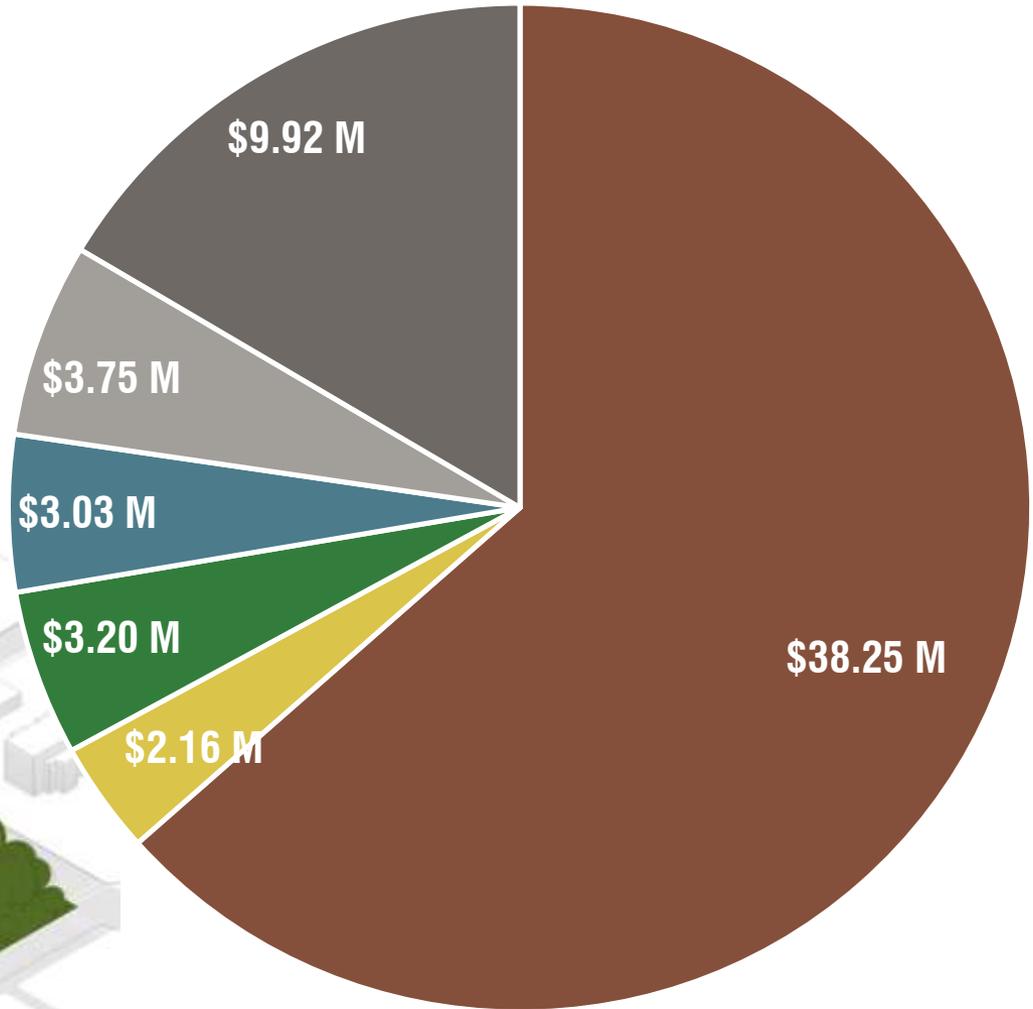


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## HAYWARD LIBRARY & COMMUNITY LEARNING CENTER HERITAGE PLAZA PROJECT SCOPE

# PROJECT BUDGET \$60.32 Million

- Library and Site
- C Street
- Civic Plaza
- Garage Access and PV
- FFE, AV, Technology
- Project Design / Mgmt

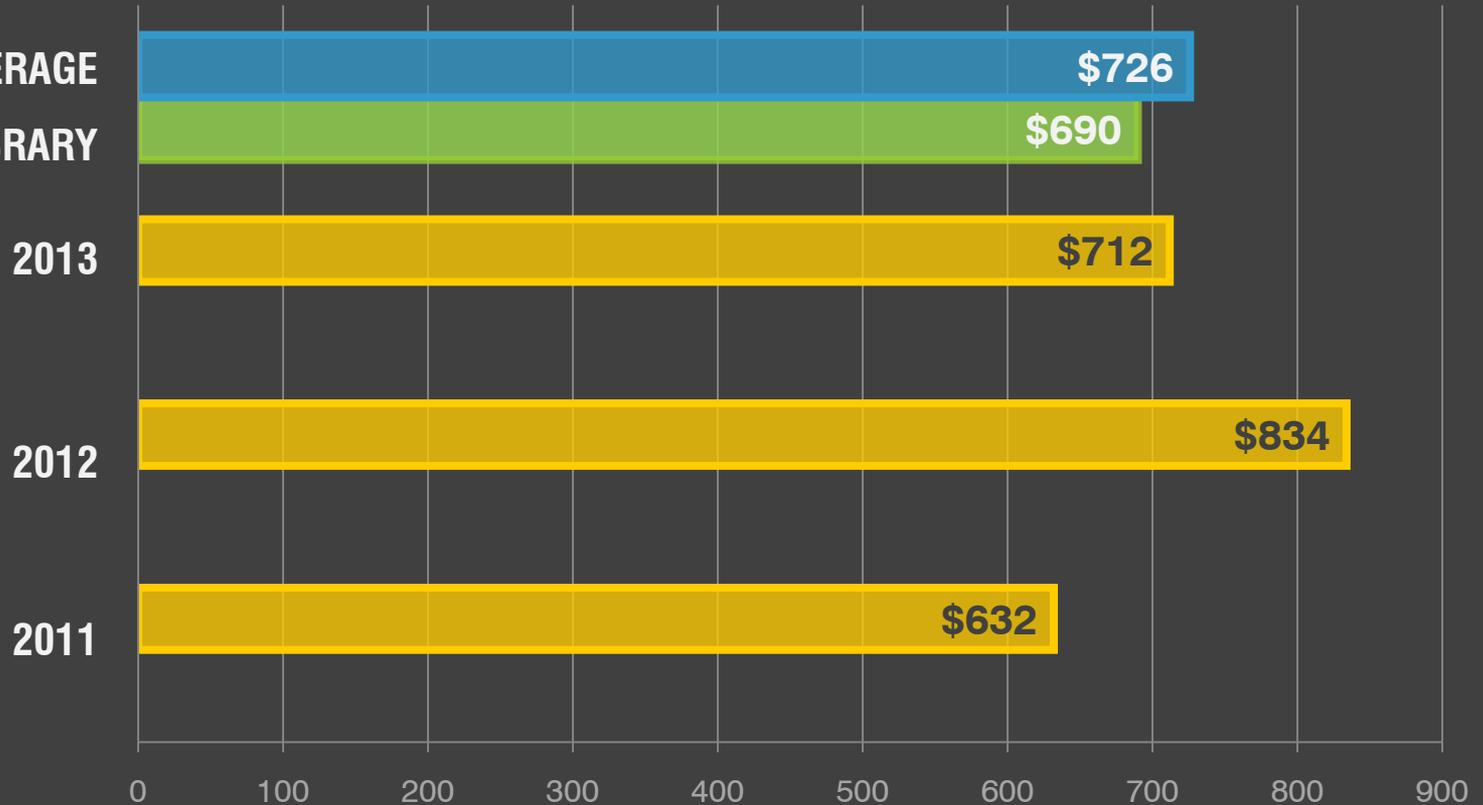


# Comparable California Library Construction Costs

data from Library Journal, annual report on library construction costs

■ California Average    ■ Hayward Library

3 YEAR AVERAGE  
HAYWARD LIBRARY

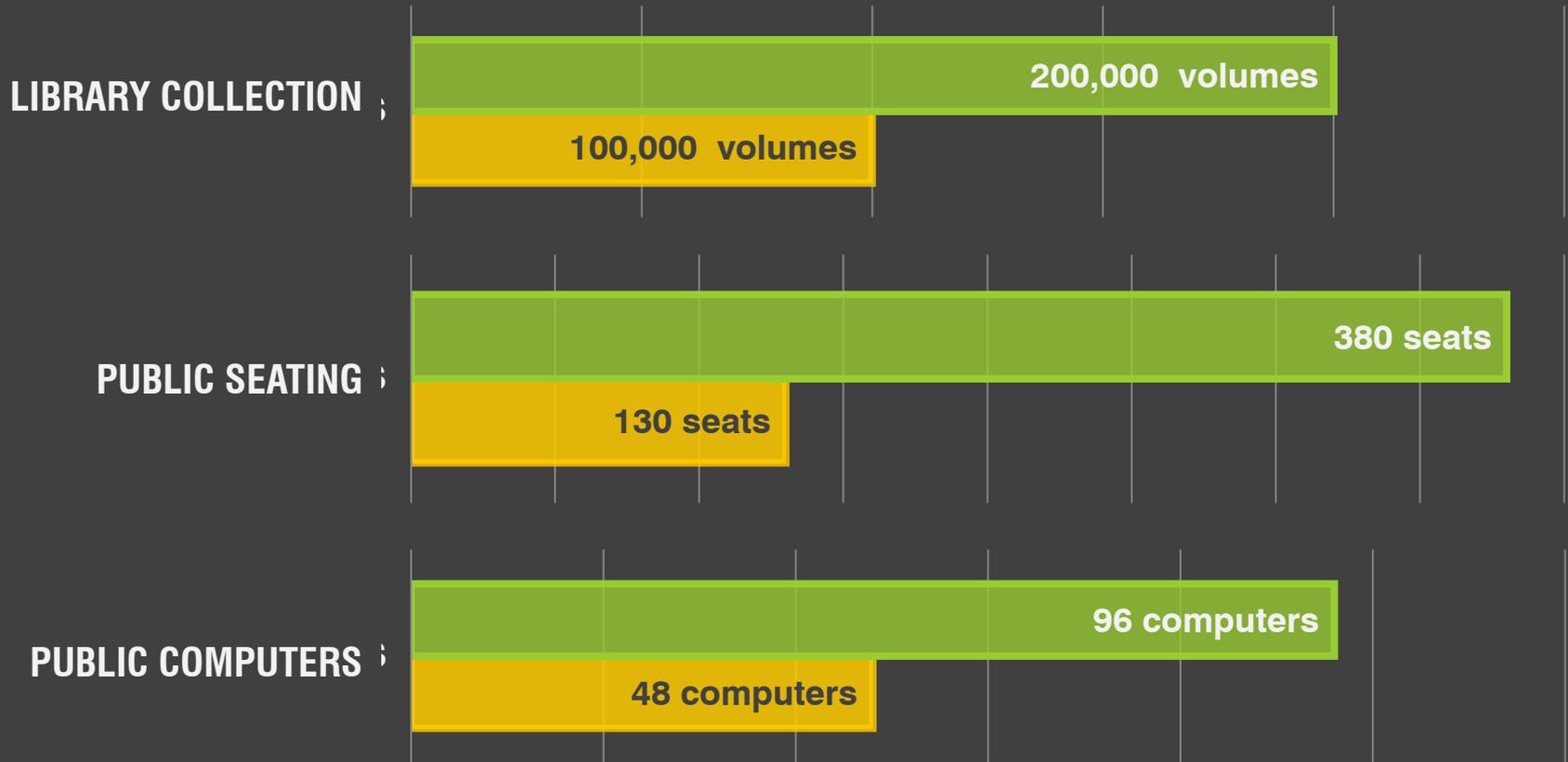


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## LIBRARY CONSTRUCTION COST COMPARISON

# 21st Century Hayward Library Program Goals

■ NEW LIBRARY   ■ EXISTING LIBRARY



# HAYWARD LIBRARY & COMMUNITY LEARNING CENTER PROGRAM HIGHLIGHTS

- Children's Homework Tutoring Center
- Story time Space
- Dedicated Teen Library Space and Homework Center
- Friends of the Library Store
- Digital Learning Center and Maker Lab Space
- Community Meeting Spaces
- Large Community Room for 200 people
- Community Learning Center for Hayward adults and seniors

**...and much more.**

# HERITAGE PLAZA

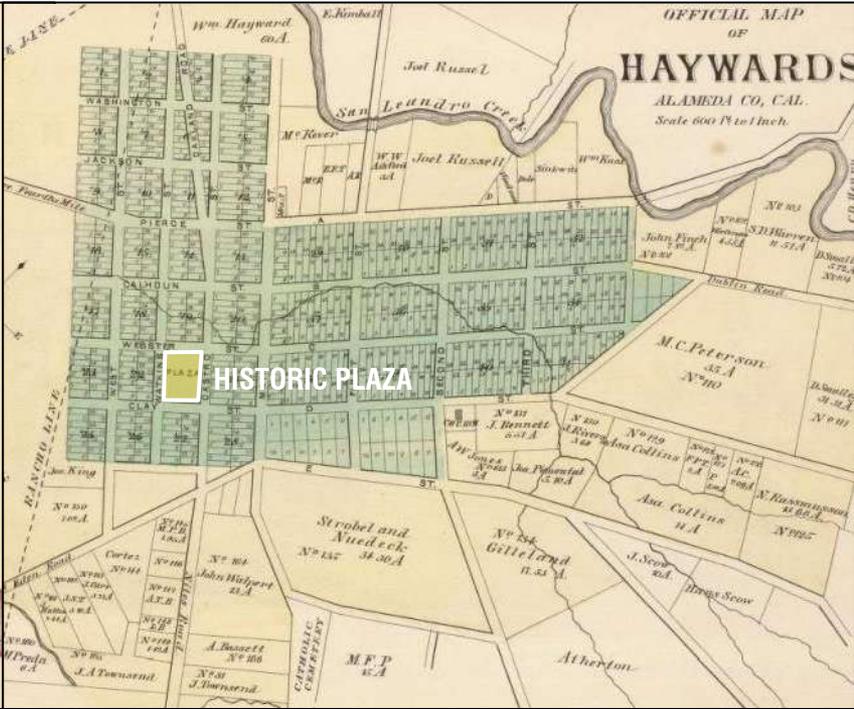


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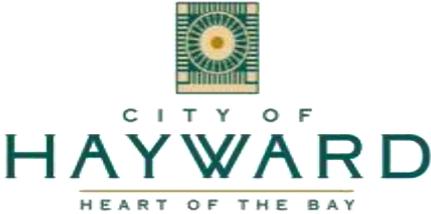
# HISTORIC HAYWARD CITY MAPS 1878



COUNTY OF ALAMEDA 1878

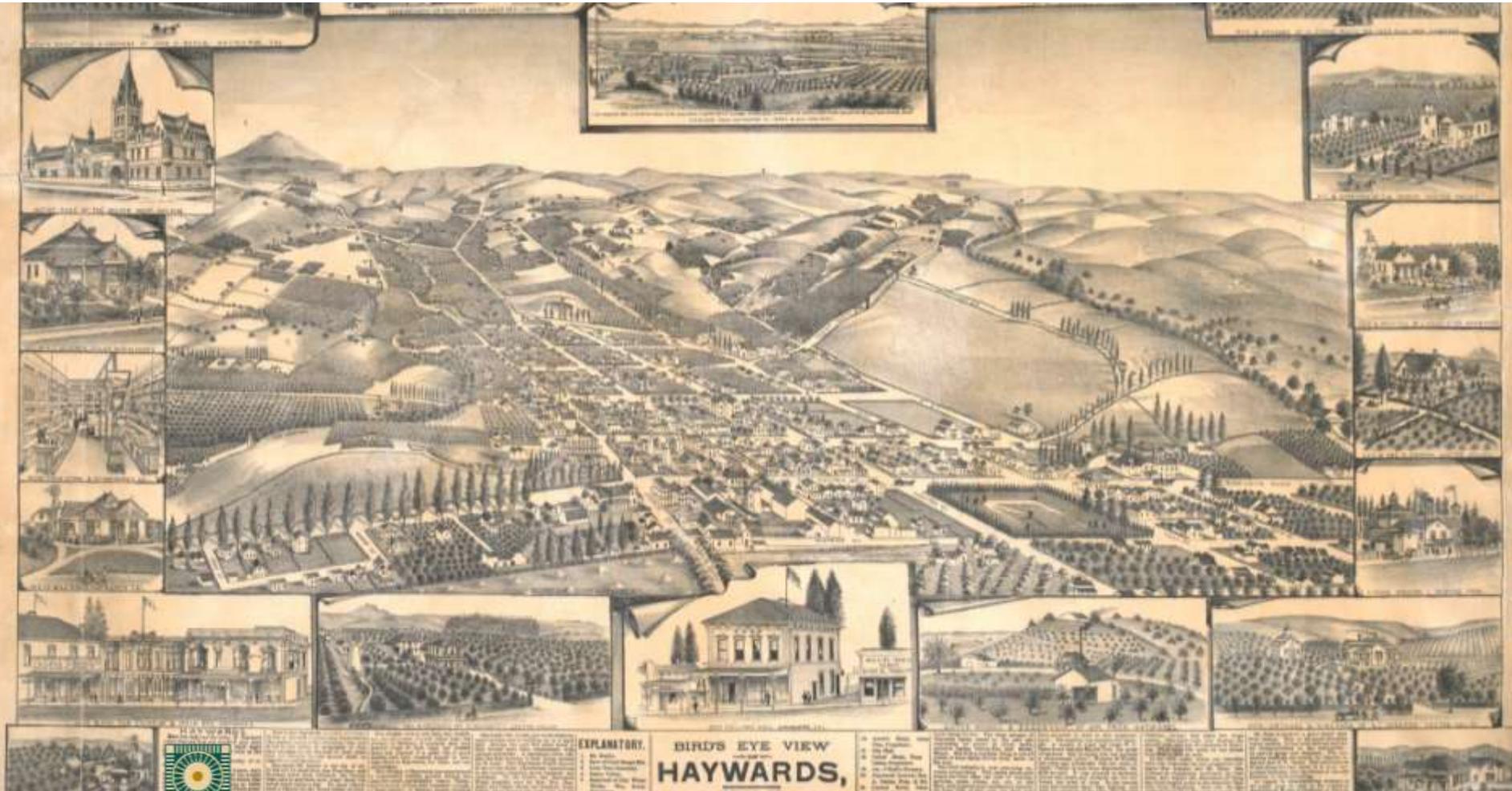


HAYWARD CITY MAP 1878



Source: David Rumsey Historical Map Collection

# HAYWARD BIRD'S EYE VIEW 1889



# HERITAGE PLAZA 1915



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Images Courtesy: Hayward Area Historical Society

# DOWNTOWN HAYWARD 1948



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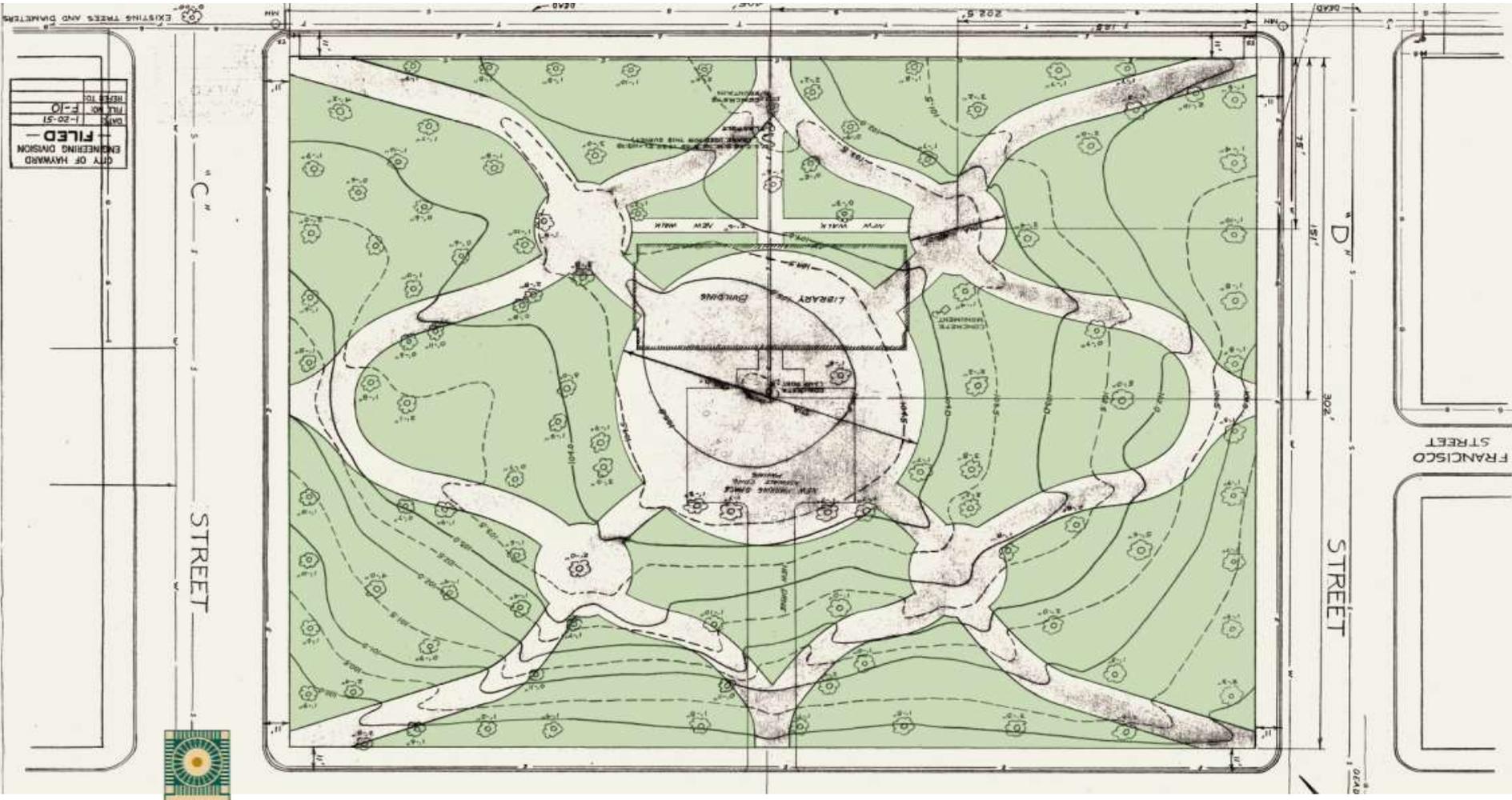
Images Courtesy: Hayward Area Historical Society

**rhaa**  
real estate and planning

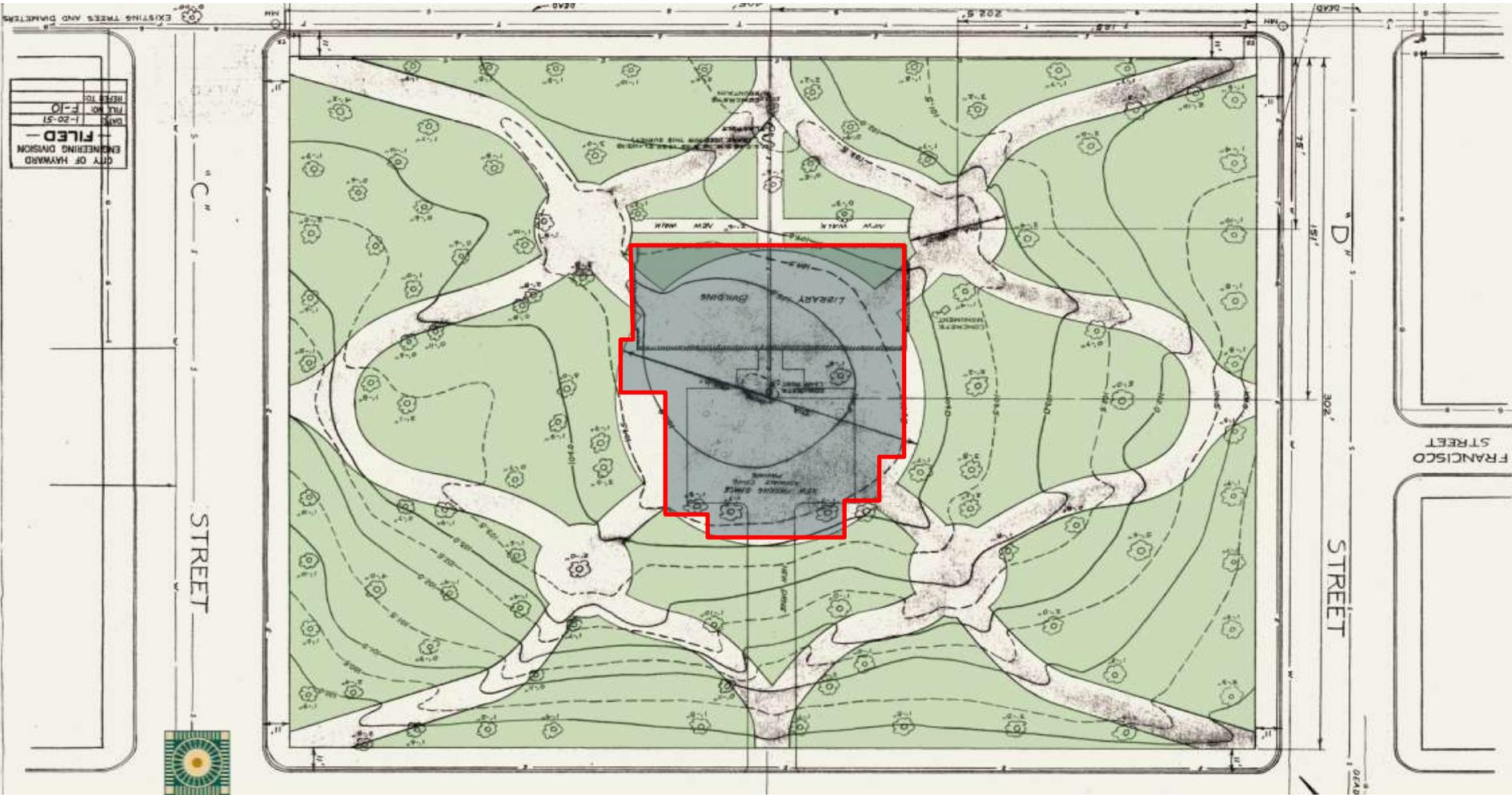
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# HERITAGE PLAZA 1949



# HERITAGE PLAZA 1949





FUTURE LIBRARY  
LOCATION

PROJECT BOUNDRY

EXISTING LIBRARY



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**PROJECT SITE**





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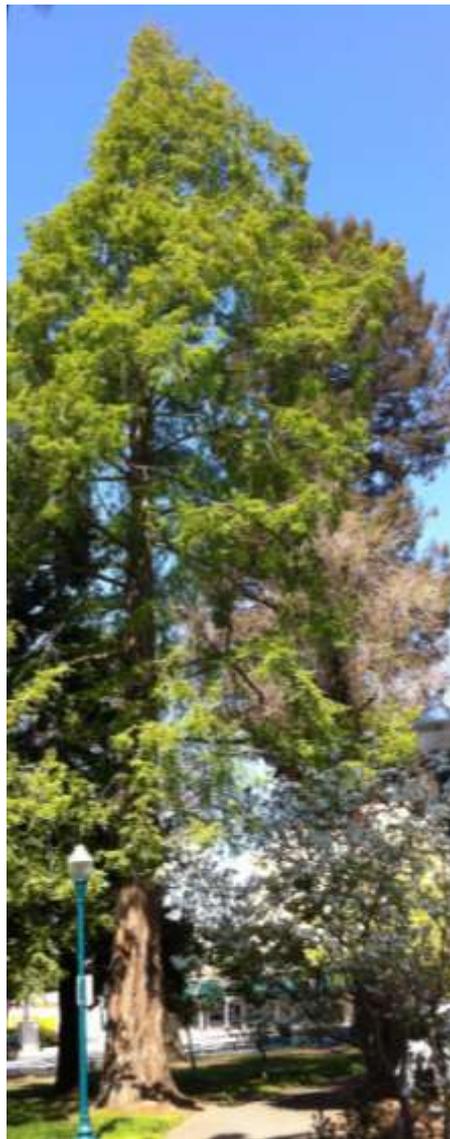
## PLAZA CONCEPT

**rhaa**  
landscape architecture and planning

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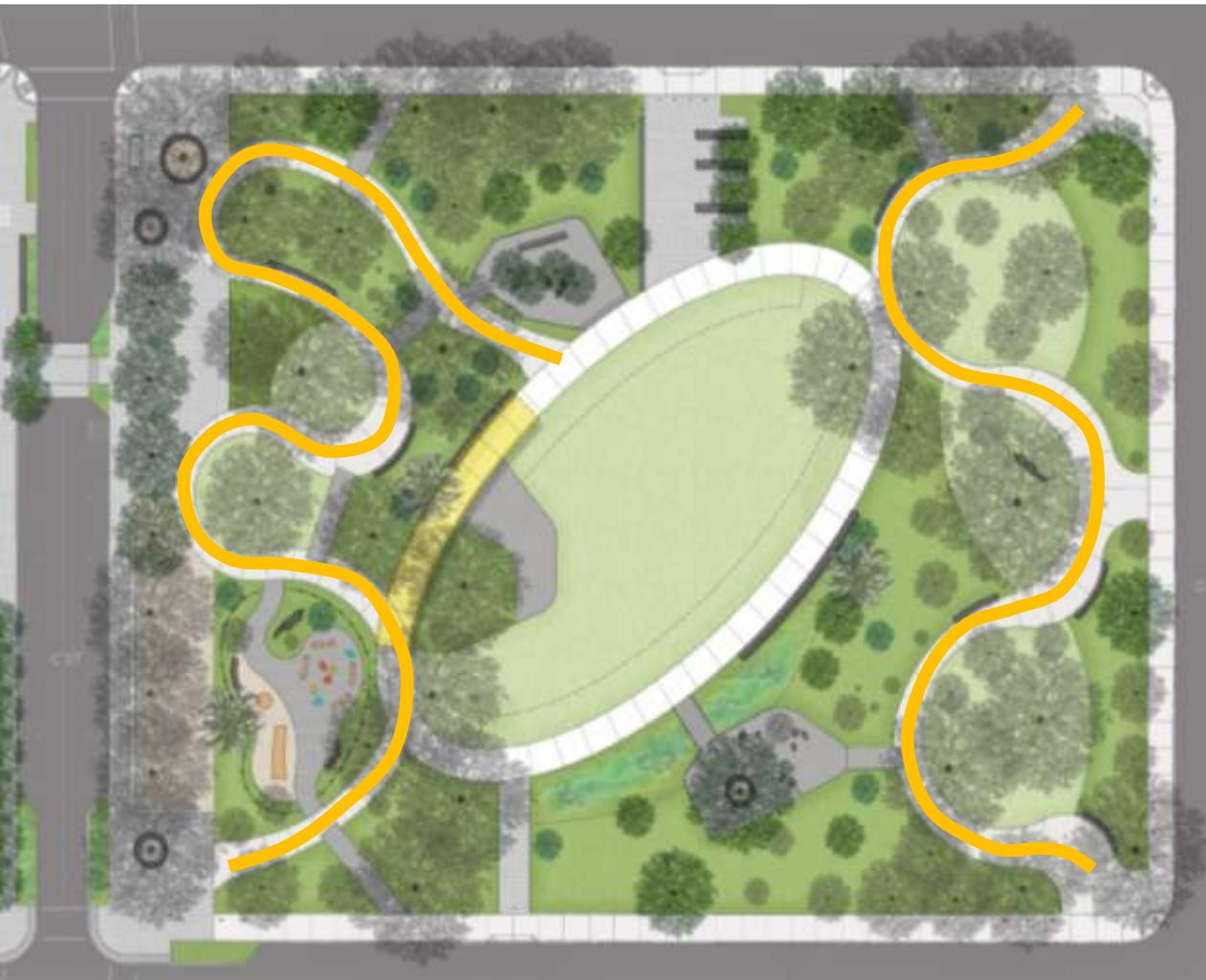


- |   |               |   |             |   |          |
|---|---------------|---|-------------|---|----------|
|  | COAST REDWOOD |  | CANARY PALM |  | MAGNOLIA |
|  | DAWN REDWOOD  |  | GINKGO      |  | OTHER    |



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## SIGNIFICANT TREES





MISSION BLVD.

NEW LIBRARY

POST OFFICE

C ST.

D ST.



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## CHILDREN'S GARDEN AT PLAZA





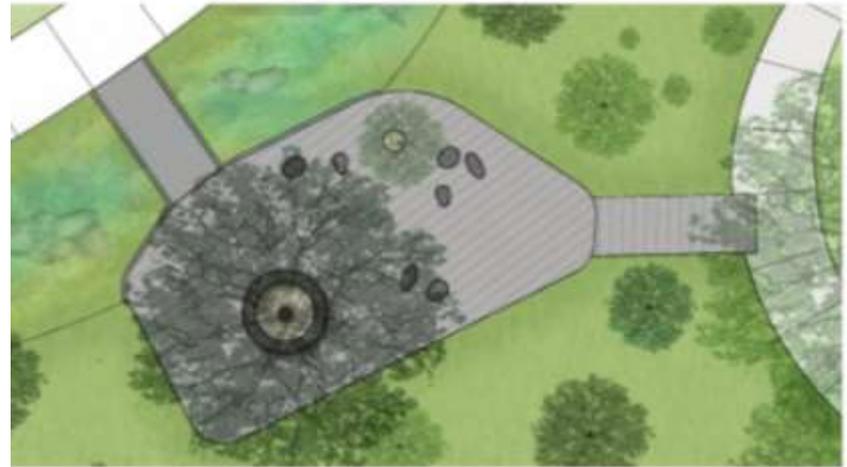


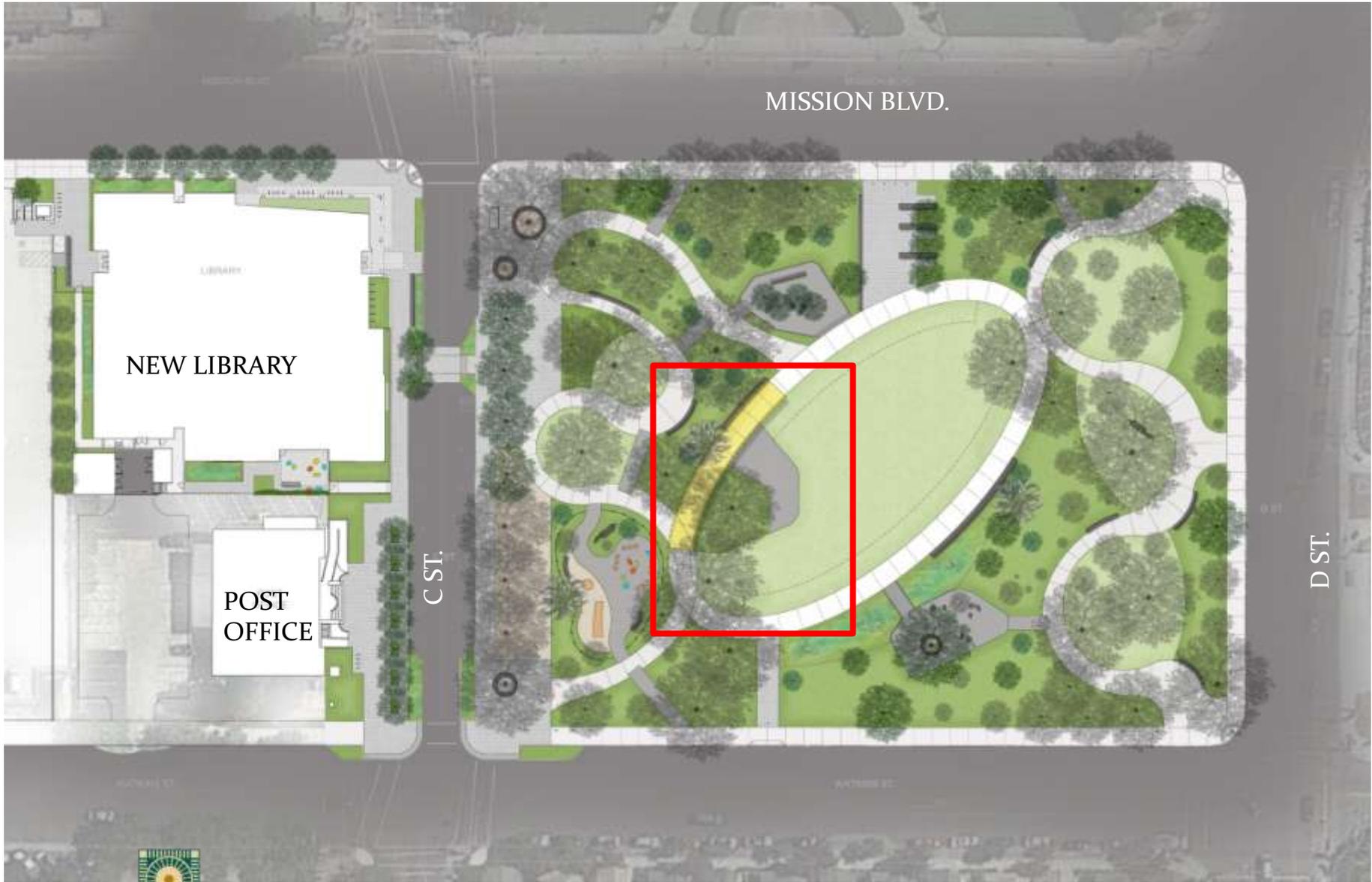


PRECAST CONCRETE



PRECAST CONCRETE





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NEW LIBRARY

POST OFFICE

C ST.

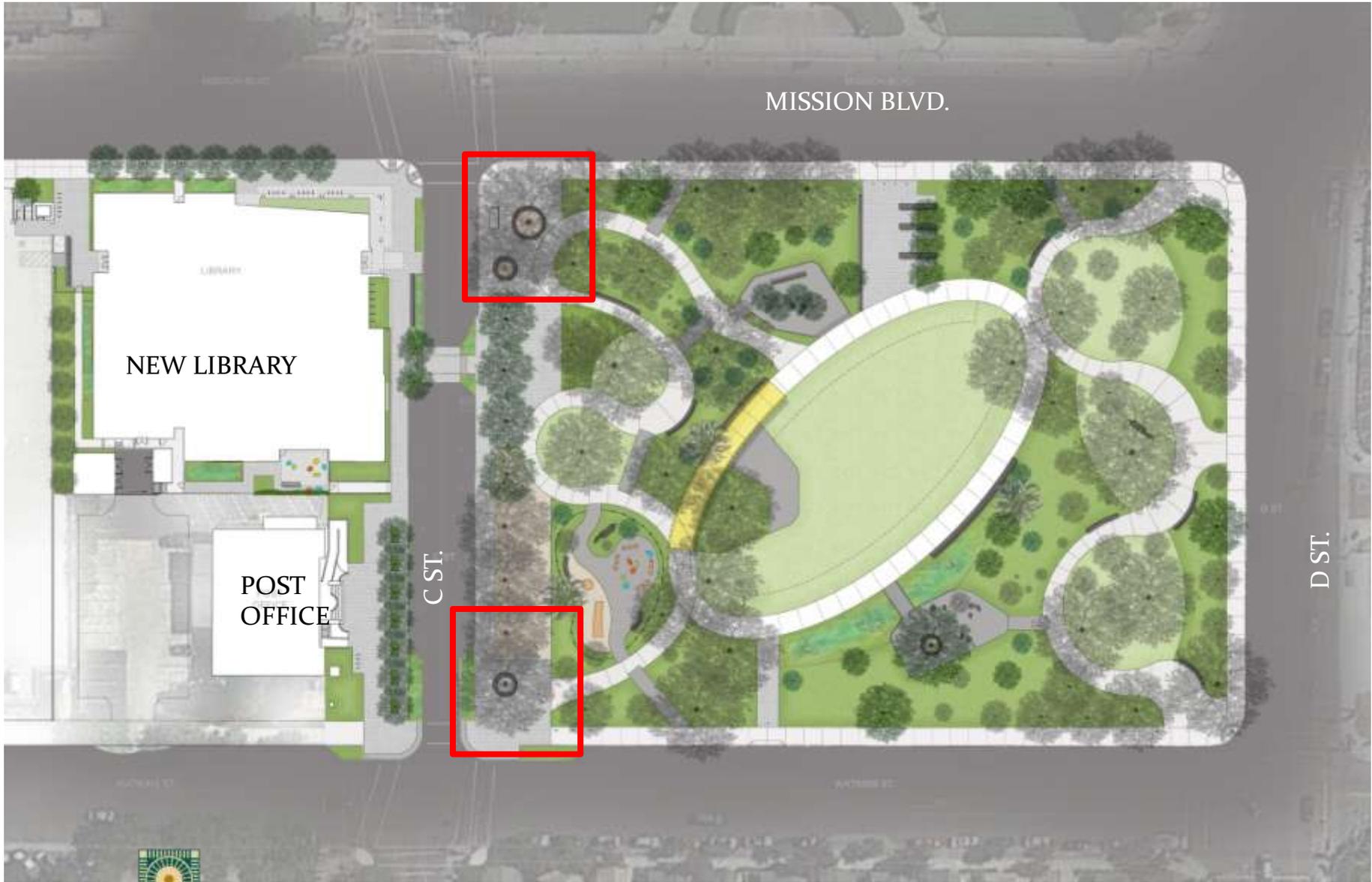
D ST.



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# OVERHEAD TRELLIS















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D ST.



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# BIOSWALE AND INTERPRETIVE EDUCATION AREA





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D ST.



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**PLAZA AT MISSION ST.**

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<p><b>1800 - 1820s</b> Henry Shaw grows up in England and comes to St. Louis to start a hardware business.</p>  <p>Henry and Eliza Shaw in hardware store, 1828 (LH)W</p>	<p><b>1820s</b> Shaw first sees the land where the Garden will be located.</p>  <p>Photograph of Henry Shaw, 1841</p>	<p><b>1840 - 1851</b> Shaw retires and travels abroad to attend the first World's Fair in London. Visits the Royal Gardens at Kew and the Crystal Palace Exhibition, as well as Chatsworth Gardens, inspiring the creation of his own Garden in St. Louis.</p>	<p><b>1859</b> Museum Building constructed.</p>  <p>Museum Building in 1857</p>	<p><b>1860 - 1889</b> The Garden begins to take shape during Shaw's lifetime.</p>  <p>View of the 1877 map of the Missouri Botanical Garden</p>  <p>Exterior view of the Garden in 1889</p>  <p>View of Shaw on the grounds in the 1880s</p>	<p><b>1889</b> August 25, 1889 Shaw Dies</p>	<p><b>1889 - 1915</b> The Garden is open two Sundays a year and for flower shows. The garden was finally opened on every Sunday in 1913. Today the garden is open year round.</p>  <p>Shaw House</p>  <p>Flower showing in the Christchurch House</p>
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NEW LIBRARY

POST OFFICE

C ST.

D ST.



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## LIBRARY ENTRANCE PLAZA





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NEW LIBRARY



POST OFFICE

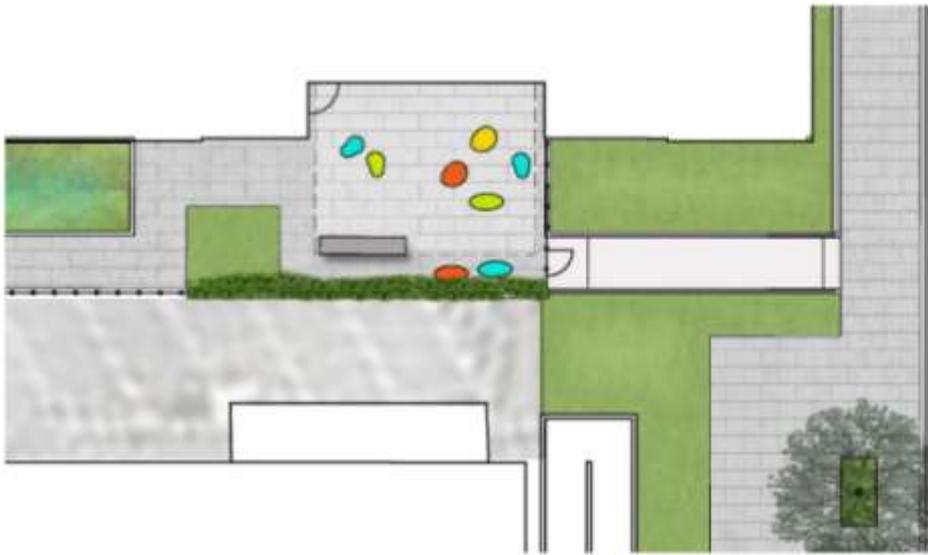
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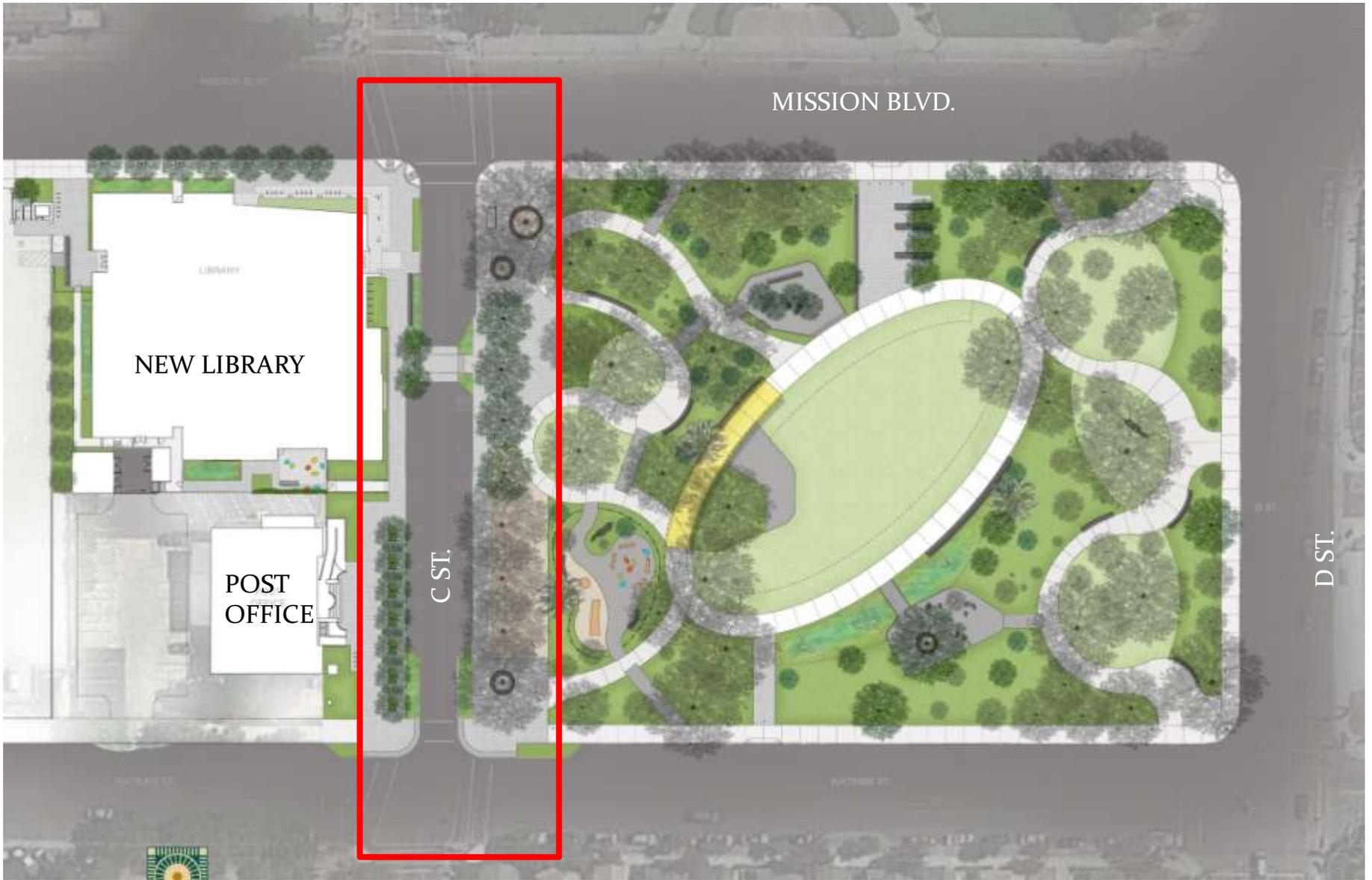
D ST.



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# CHILDREN'S GARDEN AT LIBRARY





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NEW LIBRARY

POST OFFICE

C ST.

D ST.



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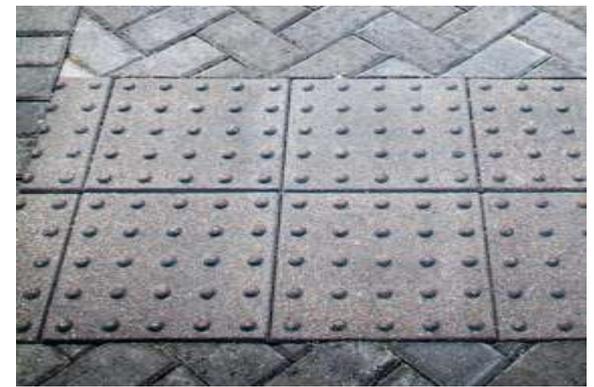
# C ST. STREETSCAPE DESIGN



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**PLAZA & C STREET**

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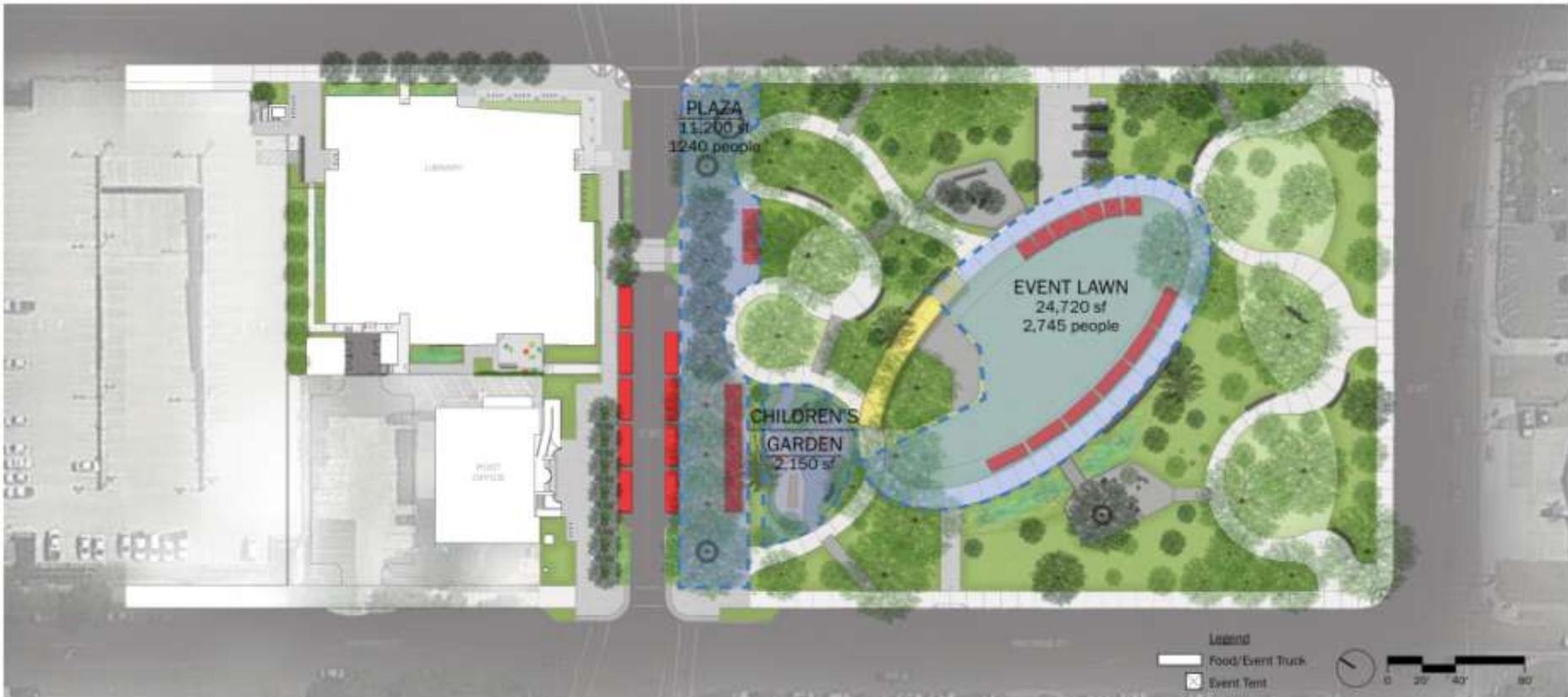




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**EVENTS**

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# LEED CERTIFICATION AND BEYOND



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## GREEN BUILDING AND SUSTAINABILITY GOALS

- Minimum building lifespan goal of 75 years
- Achieve LEED Gold Certification but Striving for LEED Platinum
- Eliminate building use of fossil fuels
- Harvest and reuse 500,000 Gallons of Rainwater
- Model of civic stewardship to the bay area and the nation

## ANNUAL BUILDING ENERGY USE GOALS BEYOND LEED

- Reduce the Library's energy consumption by 50%
- 100% solar powered Library to achieve annual "Zero Net Energy"

SUSTAINABLE SITE



INNOVATIVE  
DESIGN

WATER EFFICIENCY  
AND RE-USE

ENVIRONMENTAL  
QUALITY

DAYLIGHTING AND  
ENERGY EFFICIENCY

MATERIALS AND  
RESOURCES

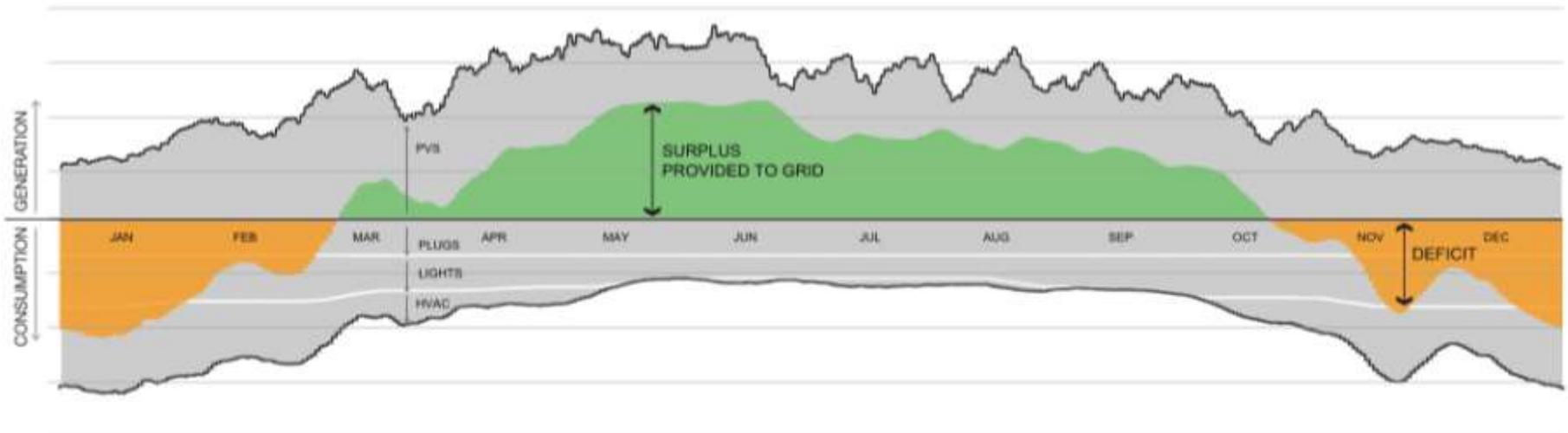
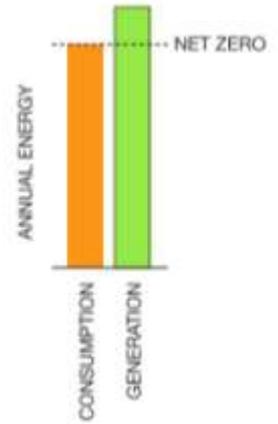
WHAT IS LEED?

Leadership in Energy and Environmental Design (LEED)

Project Goal:

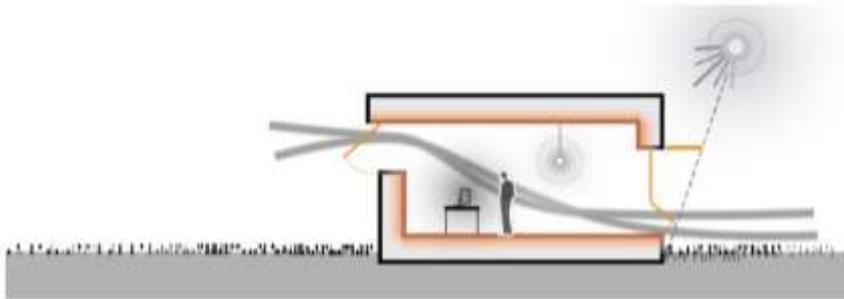
Over the course of a typical year, generate as much energy as is used with on-site, renewable sources.

Maximize use of renewables and reduce carbon emissions by avoiding fossil fuels such as gas.



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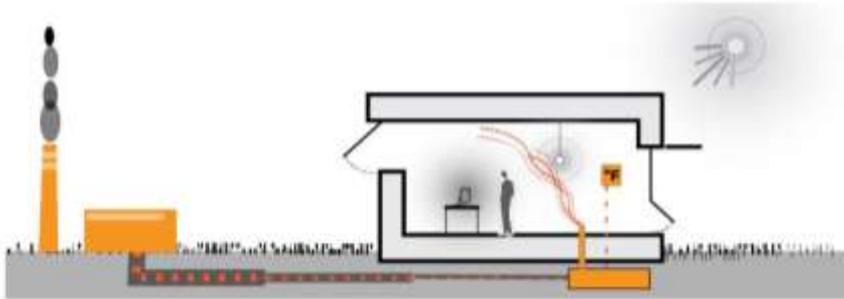
## WHAT IS A “ZERO NET ENERGY” BUILDING?



Step One:

## Good Envelope Design

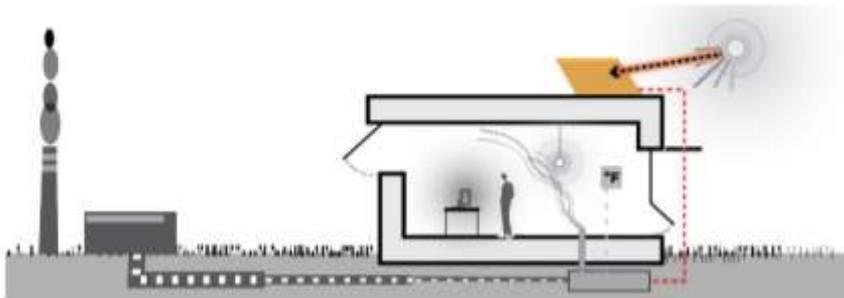
to reduce demand



Step Two:

## Efficient Machines

to reduce consumption



Step Three:

## Building-Integrated Renewable Energy

to ensure future generation of carbon-neutral power



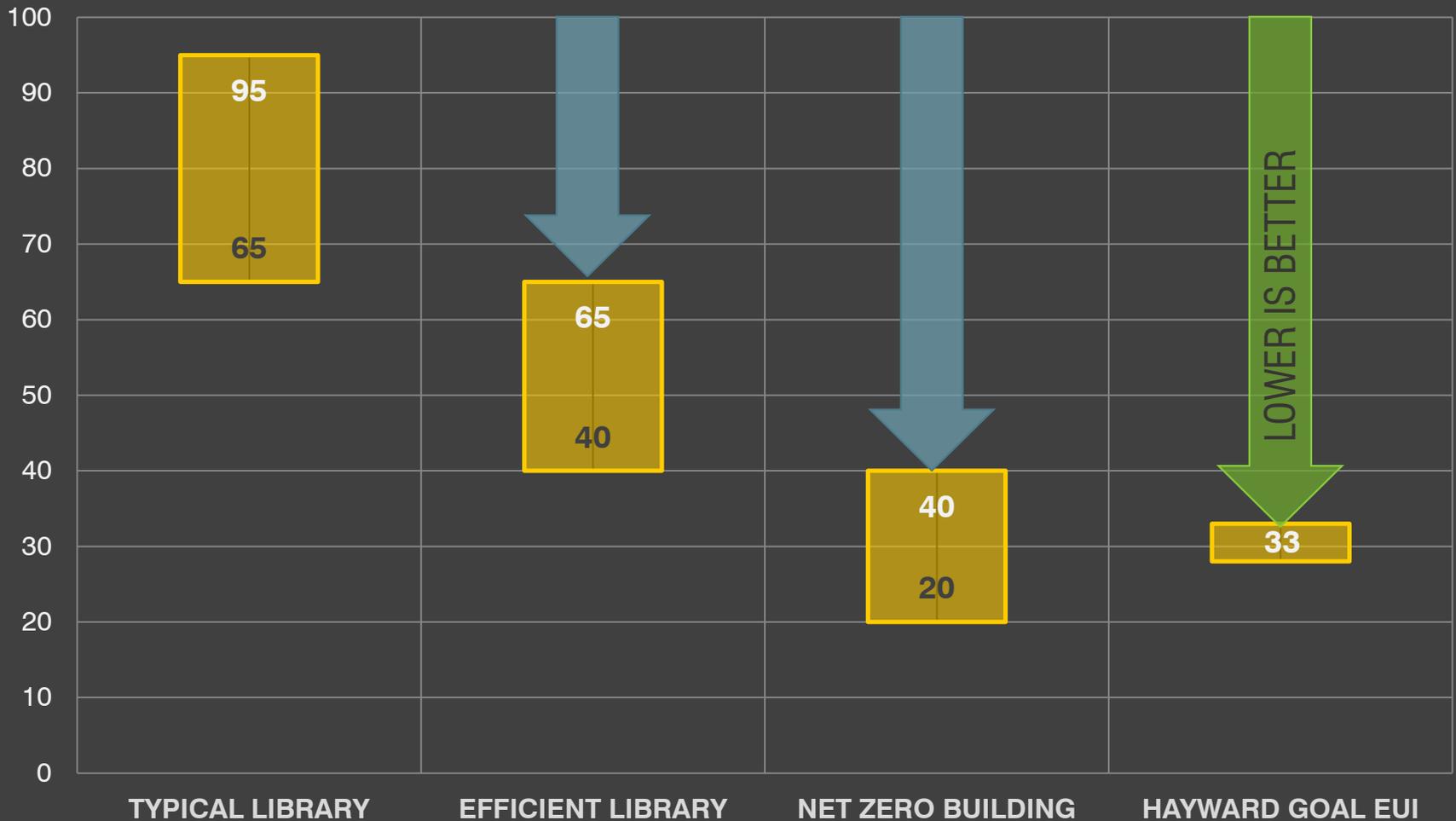
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# PATH TO ZERO NET ENERGY

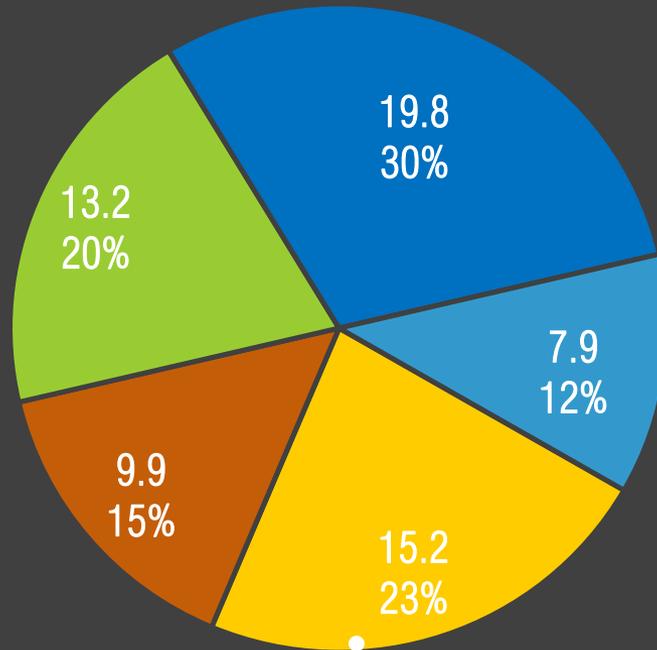
LOISOS + UBBELOHDE  
ARCHITECTURE . ENERGY

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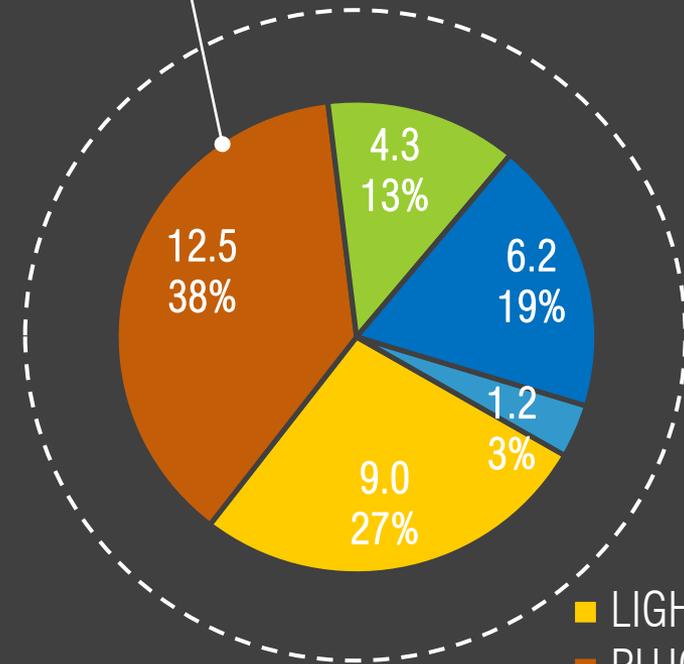
# HAYWARD LIBRARY - ENERGY USE INTENSITY (EUI kbtu/sf/yr)



50% MORE EFFICIENT BUILDING  
HAYWARD GOAL EUI OF 33



STANDARD BUILDING  
BASELINE EUI OF 66



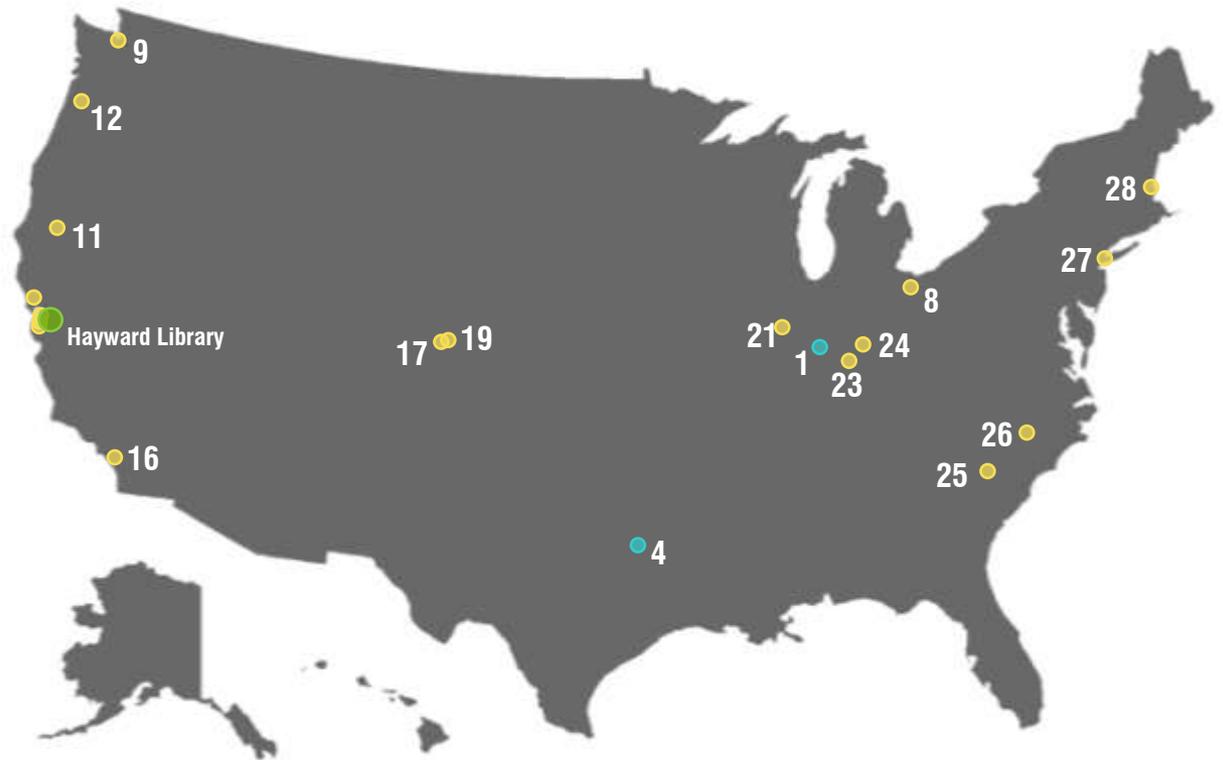
- LIGHTING
- PLUG LOADS
- HEATING
- COOLING
- HOT WATER

1	<b>Crisney Library*</b> 2,400 SF, 2009
4	<b>West Irving Library*</b> 24,876 SF, 2011
8	<b>Oberlin College –Lewis Center*</b> 3,600 SF, 2000
9	<b>Bullitt Foundation Center</b> 52,000 SF, 2012
11	<b>Redding School for the Arts</b> 77,091 SF, 2012
12	<b>Veronica School</b> 135,000 SF, 2012
16	<b>Student Center of E. LA College</b> 136,000 SF, under const.
17	<b>NREL Research Support Facility*</b> 222,000 SF, 2010
19	<b>Centennial PK-12 School</b> 64,000 SF, 2010
21	<b>Elec. &amp; Comp. School @ UIUC</b> 250,000 SF, under const.
23	<b>Richardson Elementary School*</b> 72,285 SF, 2010
24	<b>Locus Trace AgriScience HS Campus*</b> 70,000 SF, 2011
25	<b>USC Darta Moore School of Business*</b> 250,000 SF, under const.
26	<b>Sandy Grove Middle School</b> 74,000 SF, 2013
27	<b>P.S. 62 (K-12)</b> 68,000 SF, under const.
28	<b>N Shore Comm. College Health Bldg</b> 58,000 SF, 2012

\*Denotes ZNE Verified



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SOURCE: nbi NEW BUILDINGS INSTITUTE, JANUARY 2014 RESEARCH REPORT

## SELECT ZERO-NET ENERGY PROJECTS

2	<b>Sacred Heart Schools Stevens Family Library*</b> Atherton 6,300 SF, 2012
3	<b>Berkeley West Branch Library</b> Berkeley 9,300 SF, 2013
5	<b>Environmental Tech. Center Sonoma State*</b> Rohnert Park 2,200 SF, 2001
6	<b>Leslie Shao-Ming Sun Field Station (Stanford) *</b> Woodside 13,200 SF, 2012
7	<b>IDEAs Z2 Design Facility*</b> San Jose 13,200 SF, 2012
10	<b>David &amp; Lucille Packard Foundation*</b> Los Altos 49,161 SF, 2012
11	<b>Redding School for the Arts</b> Redding 77,091 SF, 2011
13	<b>Exploratorium</b> San Francisco 330,000 SF, 2013
14	<b>BEST Center at Laney College</b> Oakland District, under const.
15	<b>La Escuelita Education Center</b> Oakland 123,000 SF, under const.

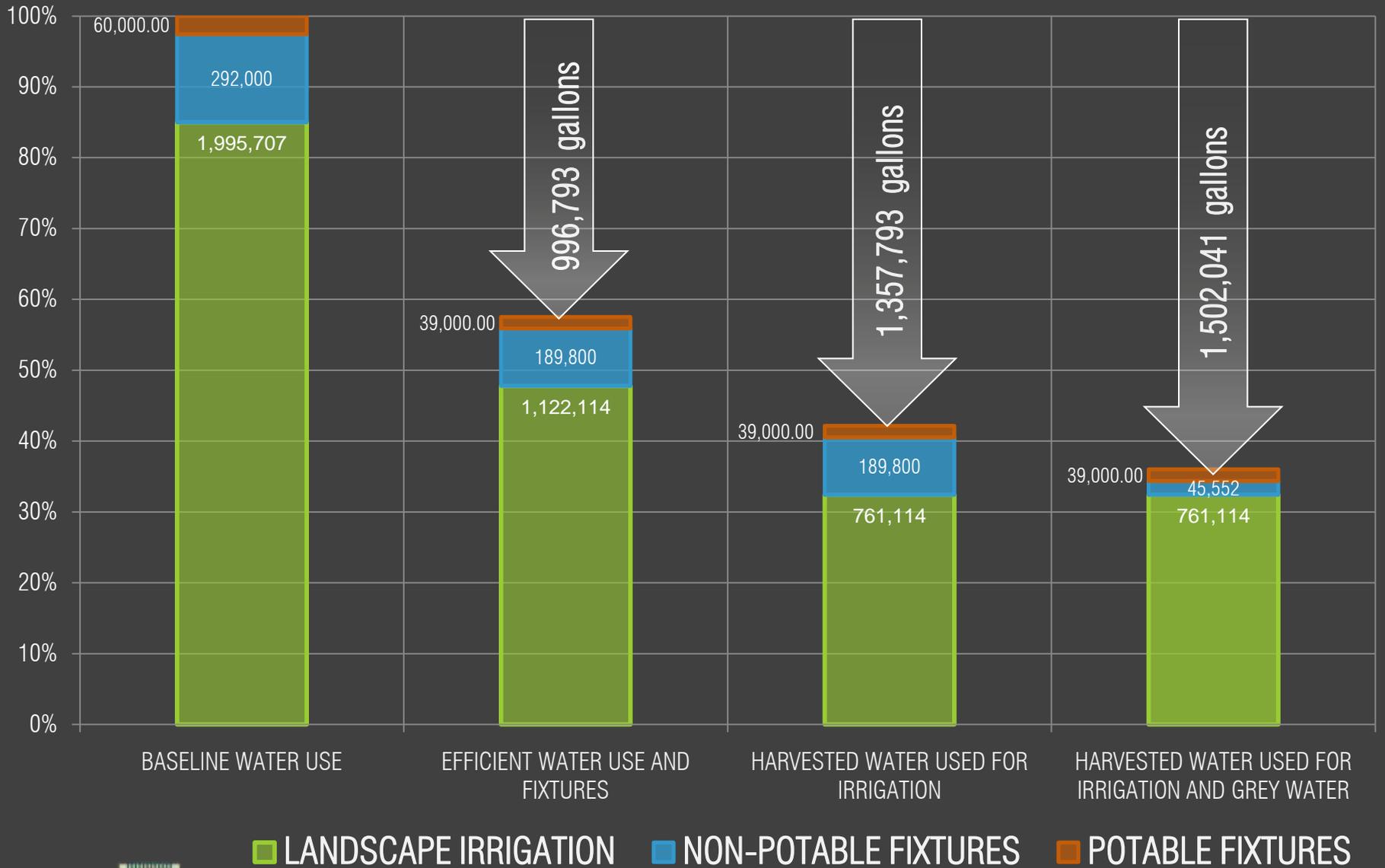
\*Denotes ZNE Verified

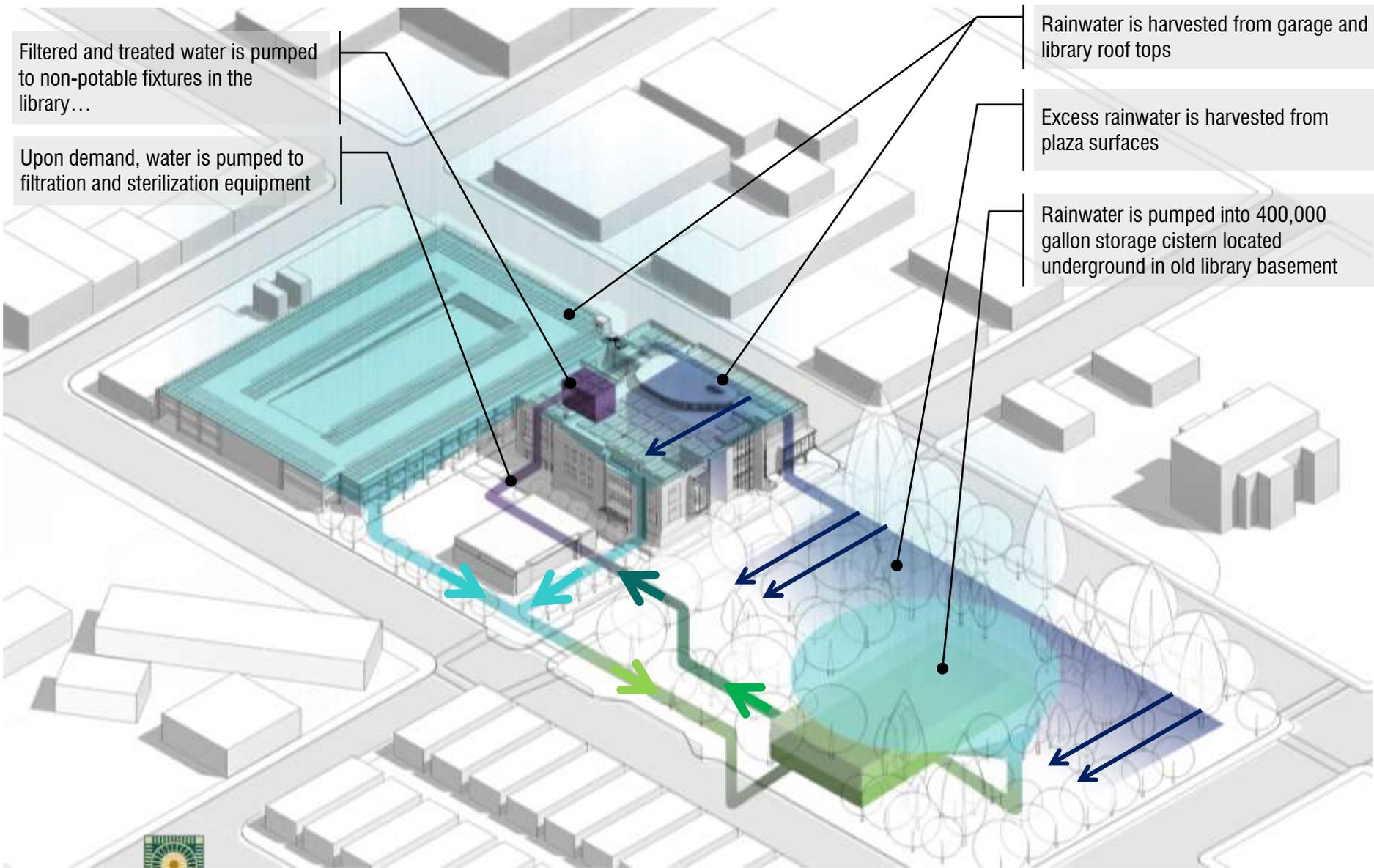


SOURCE: nbi NEW BUILDINGS INSTITUTE, JANUARY 2014 RESEARCH REPORT



# ZERO-NET ENERGY PROJECTS BAY AREA





Filtered and treated water is pumped to non-potable fixtures in the library...

Upon demand, water is pumped to filtration and sterilization equipment

Rainwater is harvested from garage and library roof tops

Excess rainwater is harvested from plaza surfaces

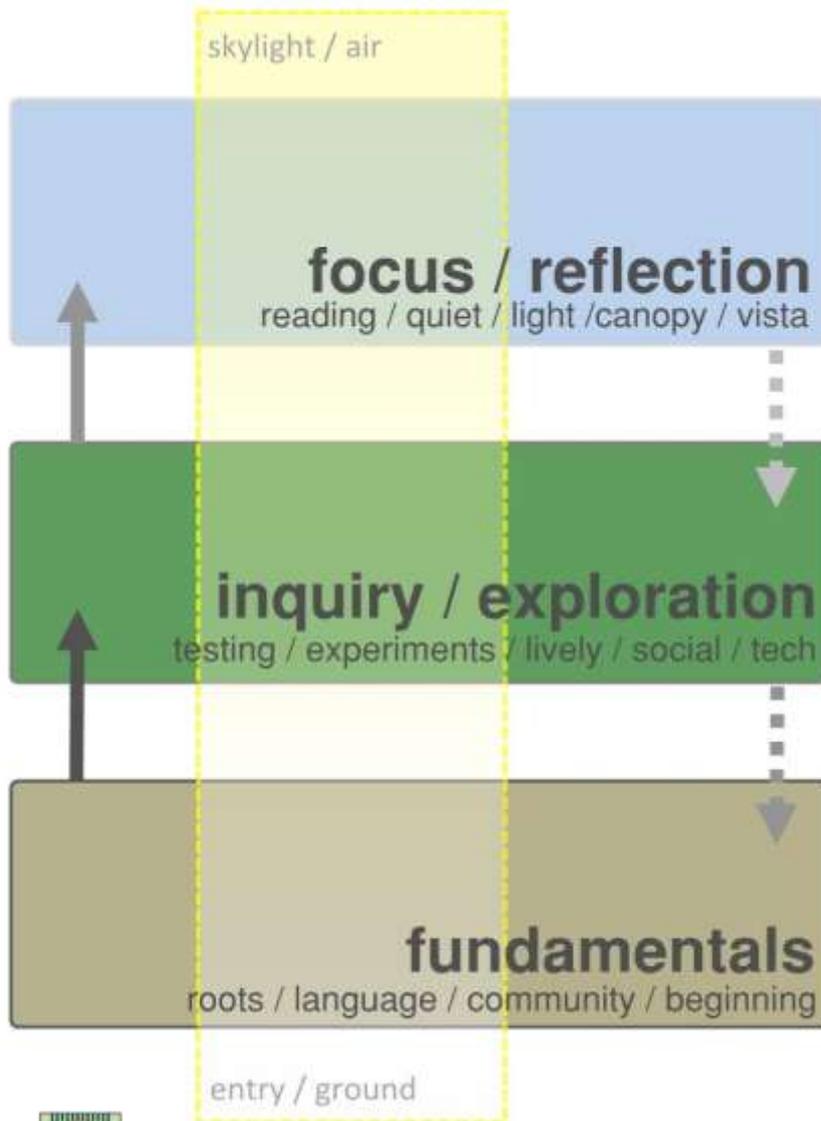
Rainwater is pumped into 400,000 gallon storage cistern located underground in old library basement



# ENVISIONING *the* HAYWARD LIBRARY *and* Community Learning Center



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### 3<sup>RD</sup> FLOOR

ADULT COLLECTION AND READING ROOM  
COMMUNITY LEARNING CENTER  
INTERNATIONAL COLLECTION

### 2<sup>ND</sup> FLOOR

COMMUNITY MEETING ROOMS  
PUBLIC COMPUTERS AND DIGITAL LEARNING  
TEEN SPACE

### 1<sup>ST</sup> FLOOR

ENTRY LOBBY – FRIENDS OF THE LIBRARY STORE  
MARKETPLACE  
CHILDREN'S LIBRARY



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1ST FLOOR – PLAN



Schematic Illustration



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1<sup>ST</sup> FLOOR LOBBY, TOWARDS PLAZA





Schematic Illustration

MISSION BLVD



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**2ND FLOOR – PLAN**



Schematic Illustration



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## 2<sup>ND</sup> FLOOR, LOOKING EAST



Schematic Illustration

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**3<sup>RD</sup> FLOOR – PLAN**



Schematic Illustration

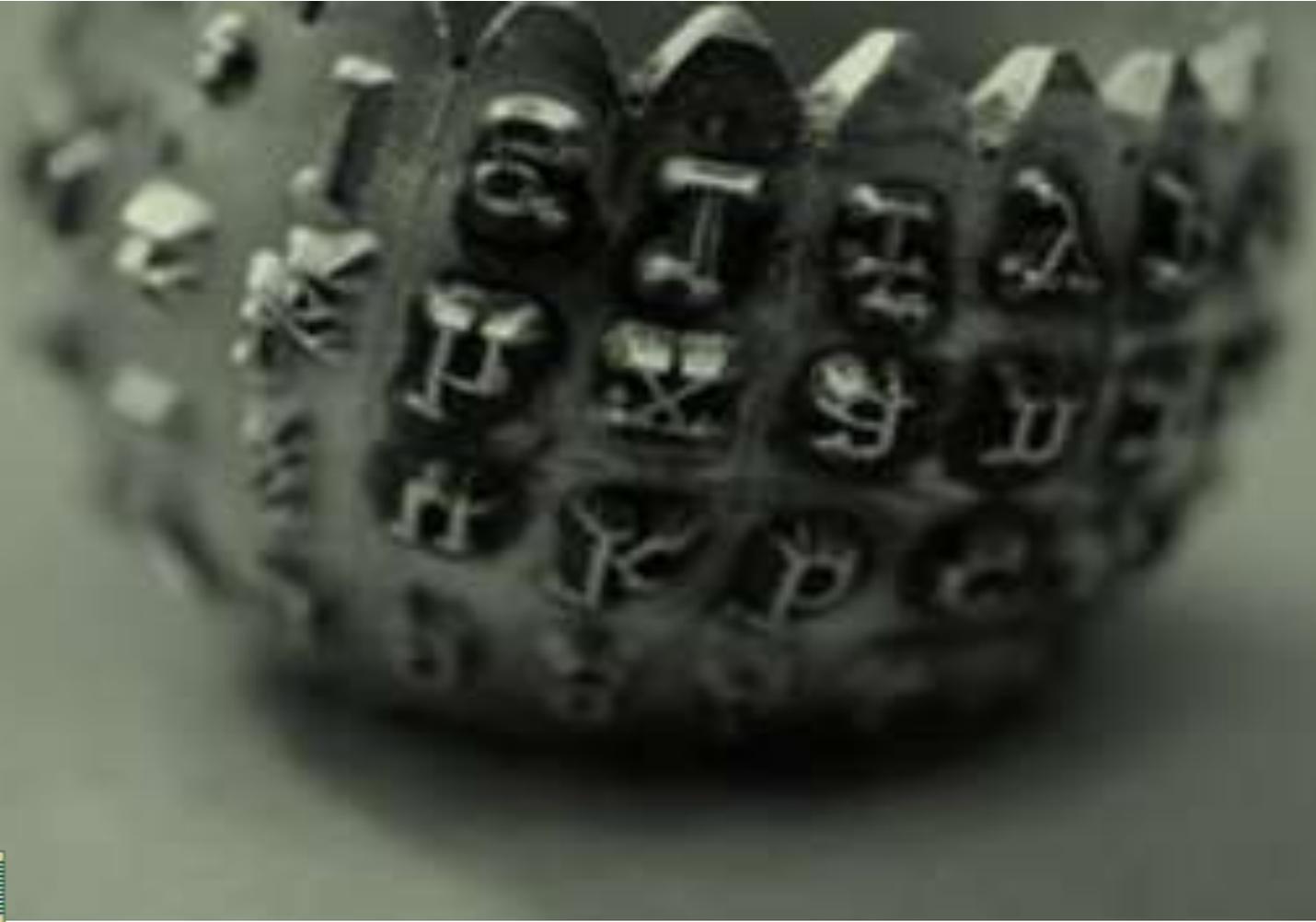


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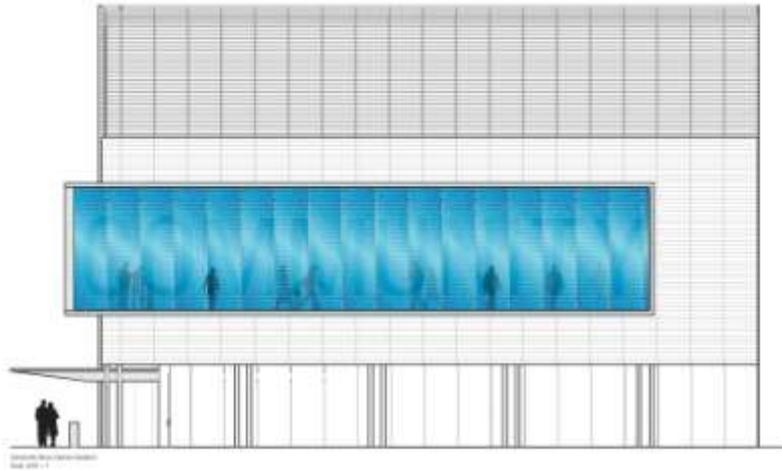
### 3<sup>RD</sup> FLOOR, LOOKING SOUTH



# VISION OF A LIBRARY - SIGNAGE



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# VISION OF A LIBRARY - EXTERIOR



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**VIEW FROM C STREET EDGE**

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CITY OF  
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VIEW FROM ACROSS MISSION

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Schematic Illustration



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VIEW FROM ACROSS MISSION

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Schematic Illustration



Schematic Illustration



Schematic Illustration



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# ACROSS MISSION AFTER

# PROJECT DESIGN AND CONSTRUCTION MILESTONES

## 2014

- Hayward City Council Presentation (November 18<sup>th</sup>)

## 2015

- Design Completion & Council Authorization (May)
- Bid Opening & Contract Award (June-July)
- Start of Library Construction (August)

## 2017

- Completion of New Main Library (February)
- Demolition of Existing Library (April)
- Start of Heritage Plaza Construction (May)
- Completion of Heritage Plaza (September)





Schematic Illustration



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# QUESTIONS