Water Conservation Garden & Education Experience

Design Completion Check-In

Water Resources and Watershed Committee
February 8, 2022

Design Review Objectives

- Overview of Water Conservation Garden and Education Experience Project
- Review Completed Exhibit Design Concepts
- Demonstrate 3-D Garden Model
- Inform on Engineering Cost Estimates
- Elicit Feedback from WRW Committee

Milestones

1. Project Overview
2. Evolution of Garden Design Concept
3. Completed Water Conservatory Garden & Education Experience Site Design
4. Completed Exhibit Designs
5. 3-D Model Demonstration
6. Engineering Cost Estimates
7. Discussion

Project Overview

Project Overview

SCV Water Strategic Plan Objectives (2019)

Goal A. Customer/Community – implement policies supporting the social, quality of life, and environmental values of the community

- A.2 – Proactively communicate with and engage our community on water matters of importance in the region positioning SCV Water as a leading resource and reliable authority on water issues.
  - A.2.6 Raise awareness of and demand for conservation programs (e.g. water conservation campaign(s) and related media buys, public and school educational programs, participation at public events, SCV Water web site, e-newsletter and social media, self-guided landscape tour, conservatory garden, etc.)

Introductions

MATTHEW S. DICKENS, MPA
SCV WATER

JULIA GROTHE
SCV WATER

SAL CONTRERAS, P.E.
ENCOMPASS CONSULTANT GROUP

CHRIS HORTON, MLA
PACIFIC COAST LANDSCAPING DESIGN

<u>Additional Support:</u>

SCV Water – Water Resources Committee & Board of Directors

SCV Water Staff

- Education
- Communications
- Sustainability
- Engineering
- Water Resources
- Administration

Exhibit Design

- Bowman Change

Project Overview

Mission *- Educating the public on the value of water.*

Vision *- Creating sustainable public spaces for educational, inspirational, and demonstration purposes pertaining to the values and beneficial uses of water throughout the Santa Clarita Valley.*

1. Legacy Conservatory Garden Taskforce
2. SCV Water – Conservatory Garden Technical Advisory Group
3. SWP and Local Aquifer Exhibit Designs
4. Conservation Garden & Education Experience Design Team

Benefits to the Agency & Community

1. **Supports Best in Class Education Programs**
   a. Child Education Programs
   b. Adult Education Programs
   c. General Public Use & Demonstration
   d. Community Events
   e. Training and Industry Events
2. **Provides State of the Art Learning Garden**
   a. Mixture of Curriculum-Salient & Water Efficient Plants
   b. Use of High Efficiency Irrigation Technologies
   c. Meets and Exceeds Model Water Efficient Landscape Ordinance
   d. Education Exhibits (Global, State, and Local Water Perspectives)
3. **Enhances Education, Training, & Event Spaces**
   a. Garden Pavilion
   b. Sustainability Shack
   c. Shade Sails
   d. Amphitheatre

Evolution of Garden Design Concept

Project Overview

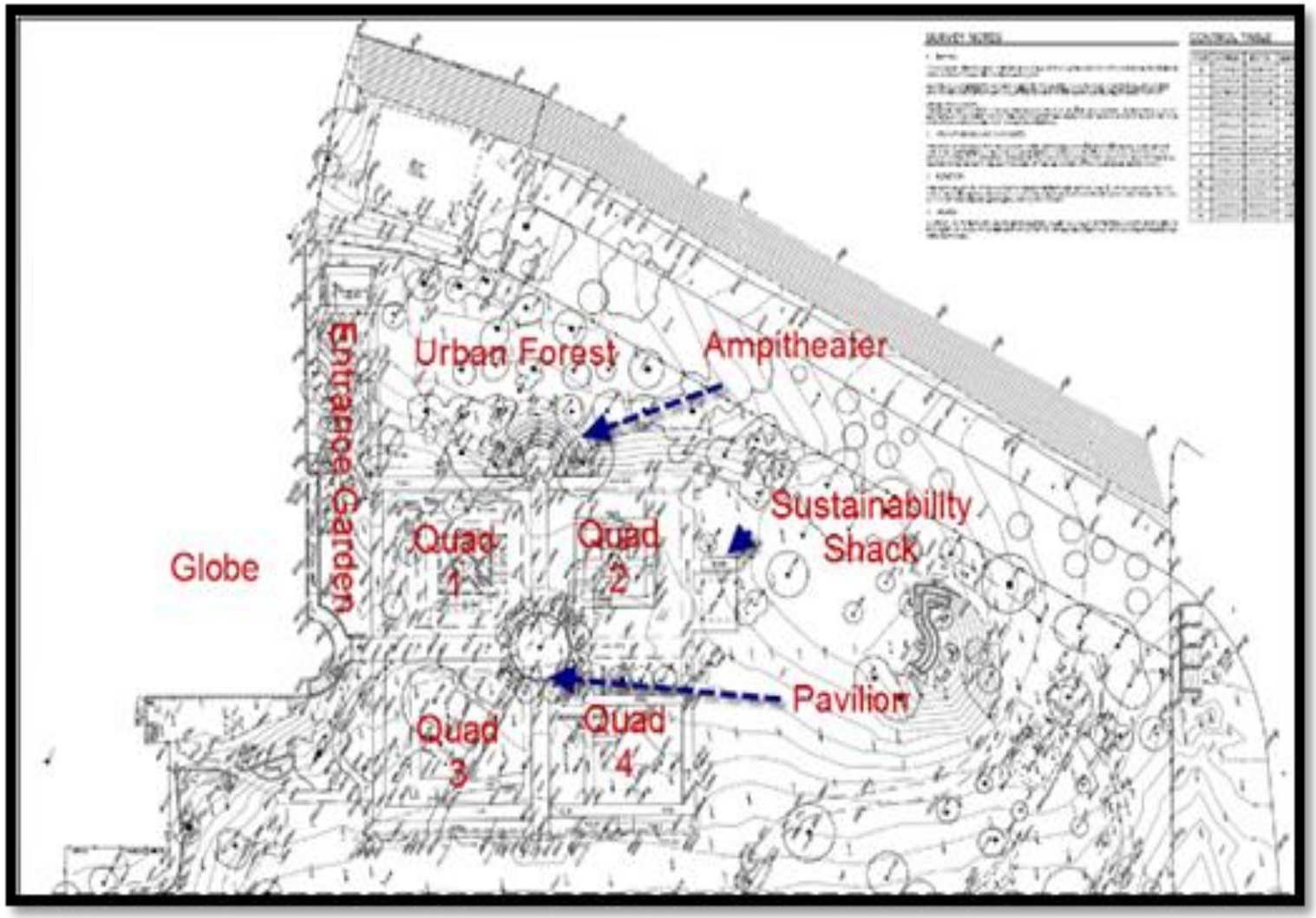
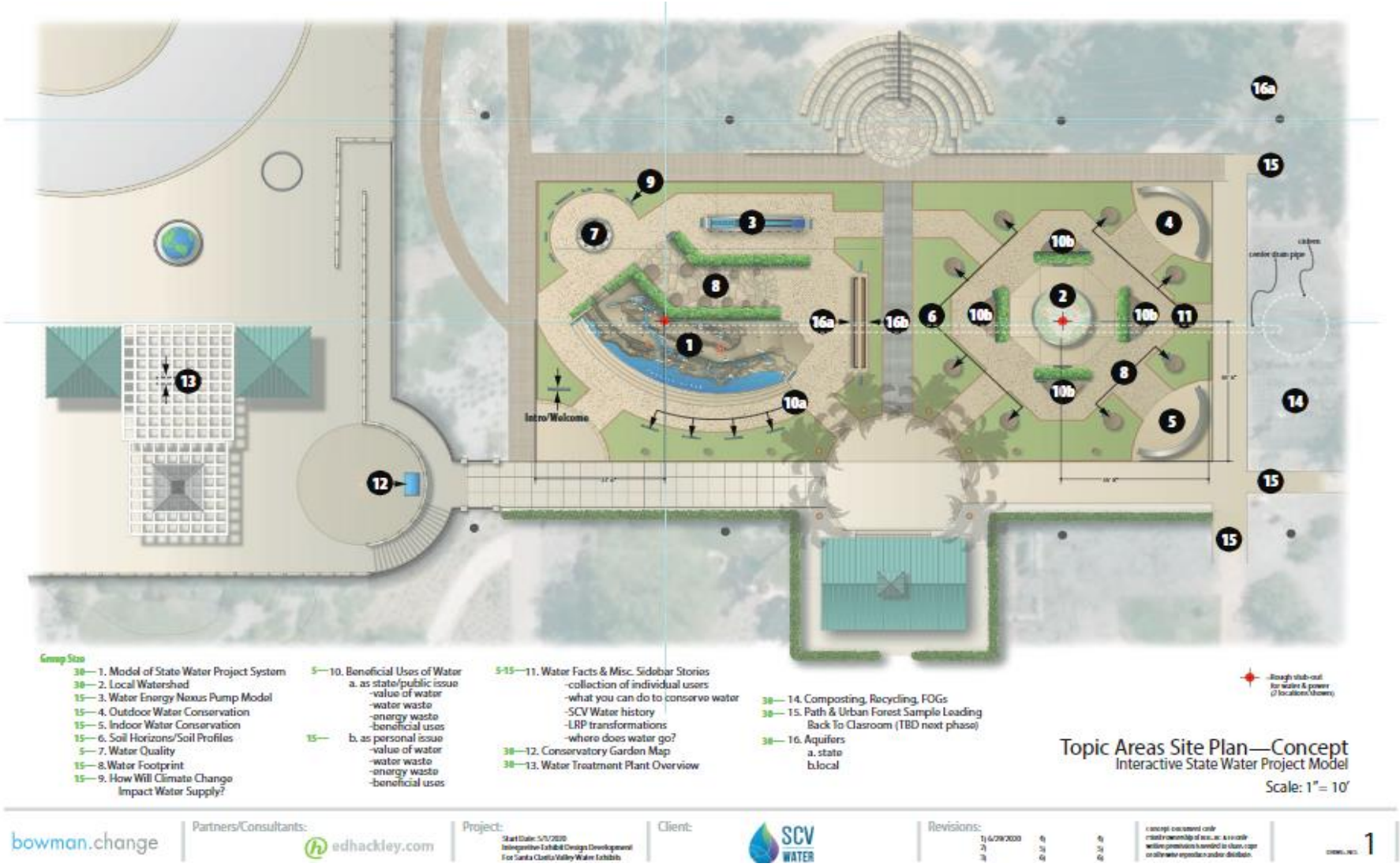
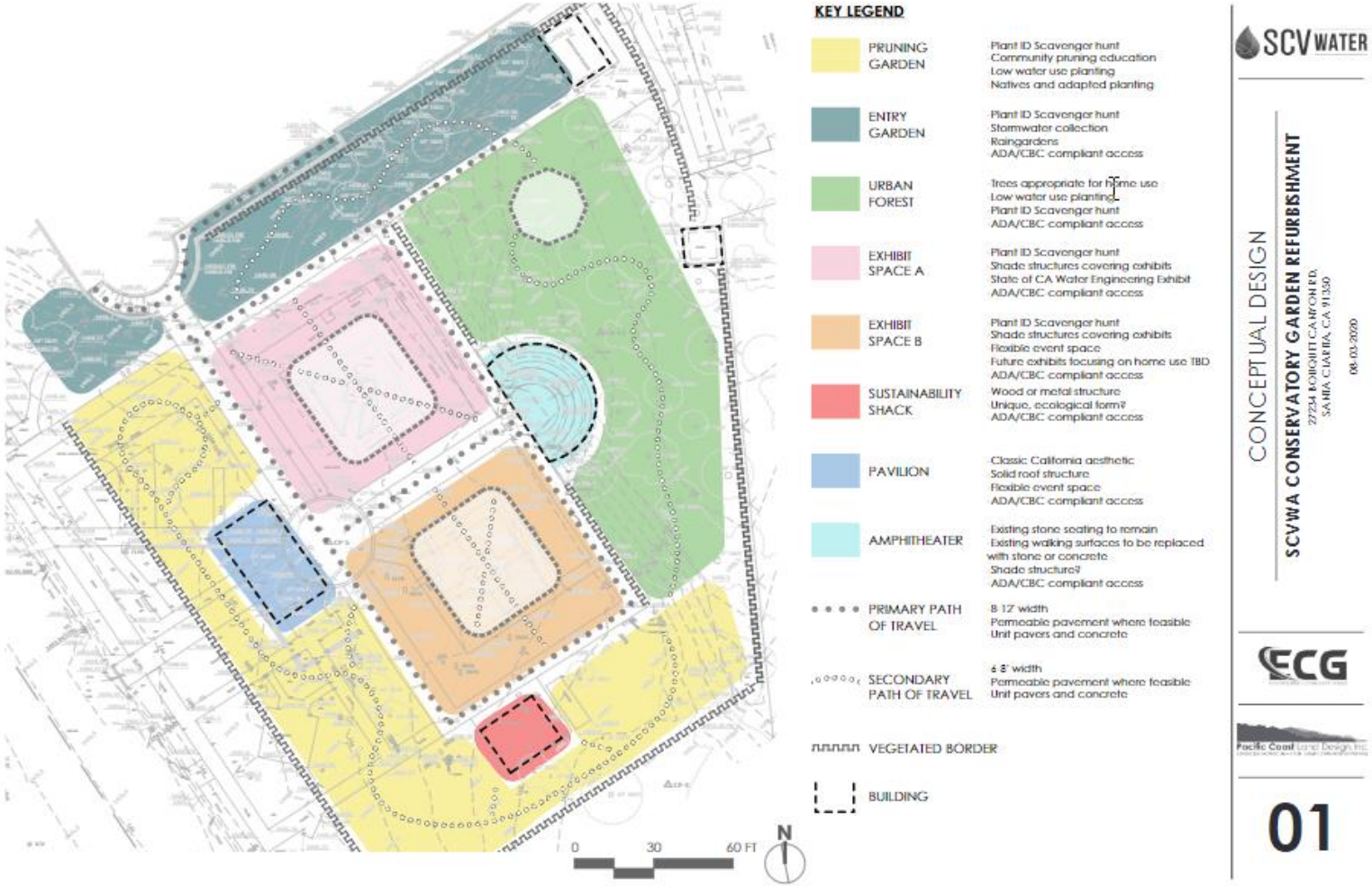


Exhibit Master Plan

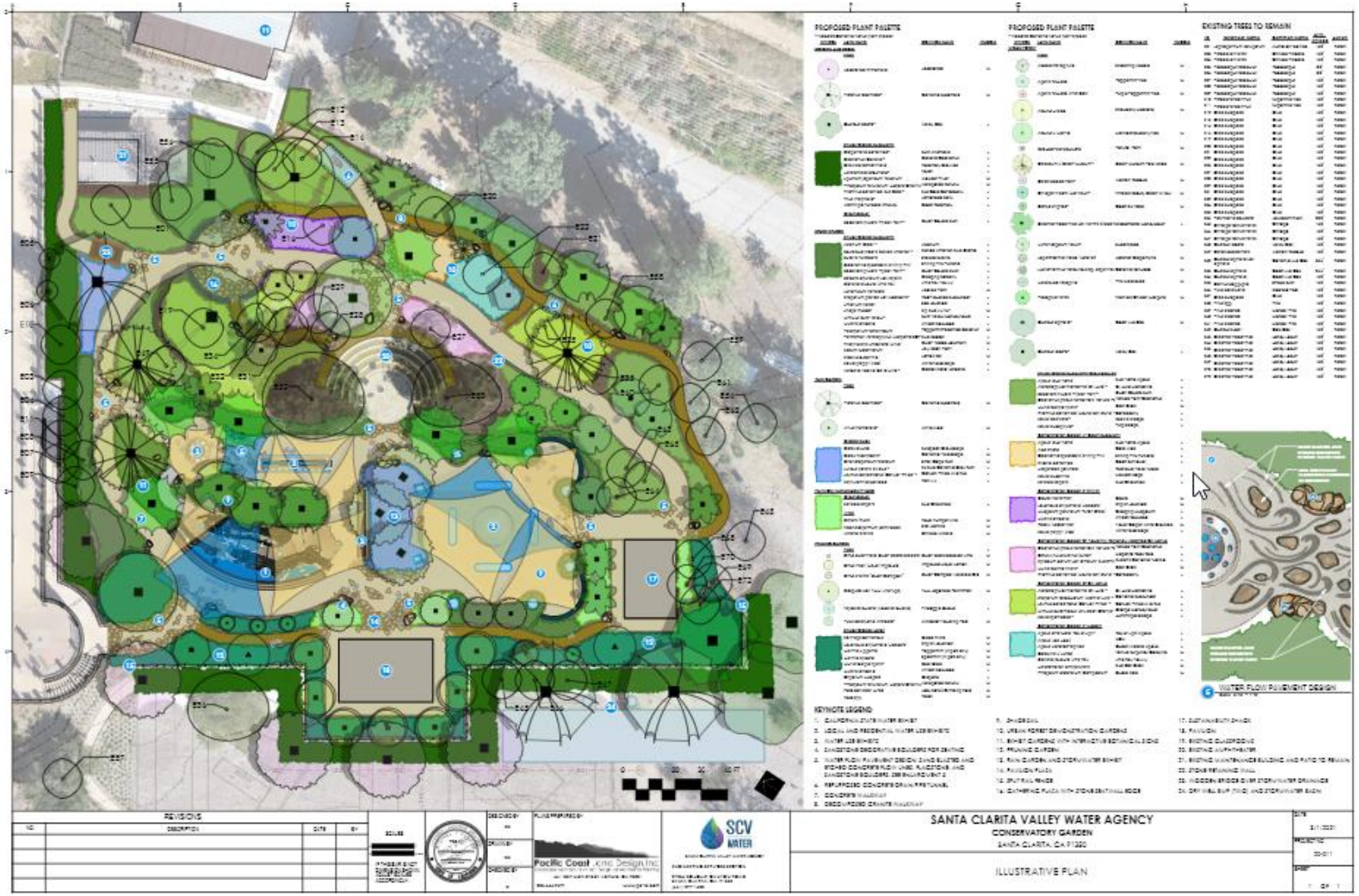


Project Overview

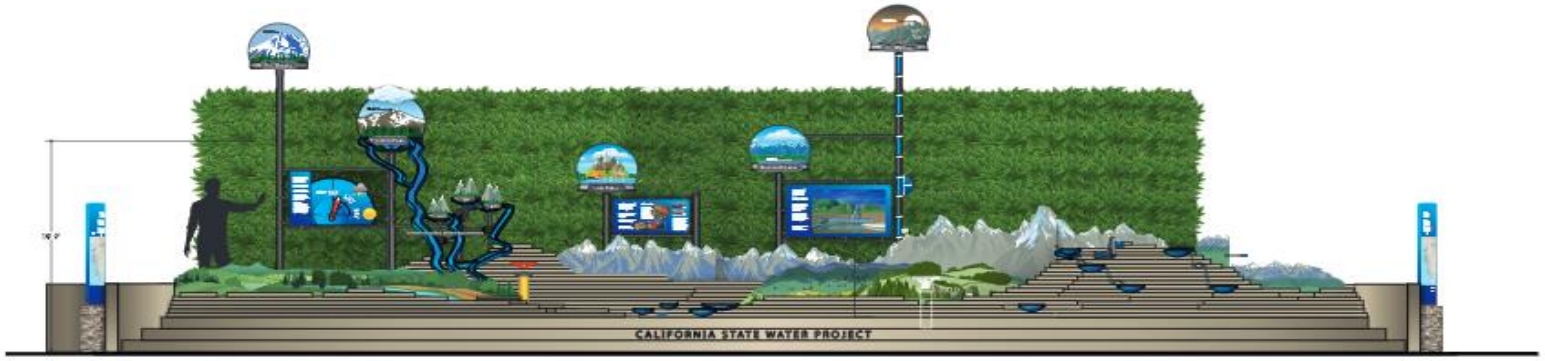


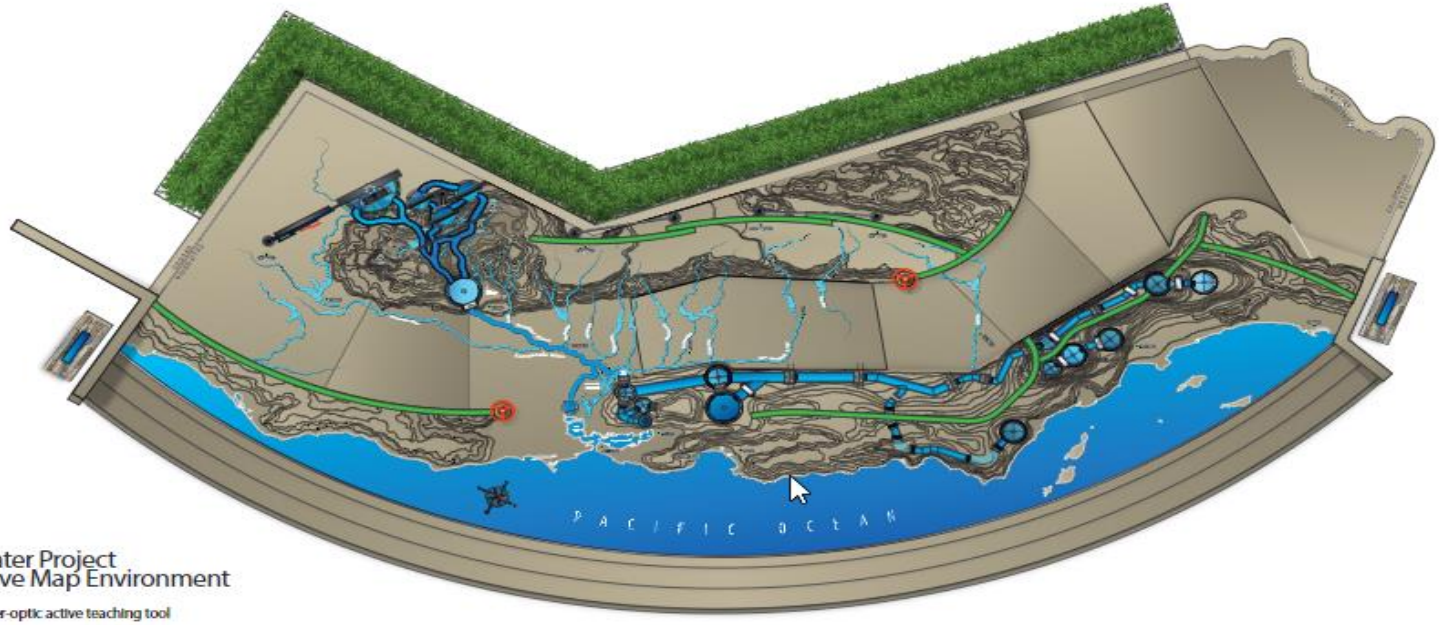
Water Conservatory Garden & Education Experience Design

Project Overview



State Water Project - Exhibit Design



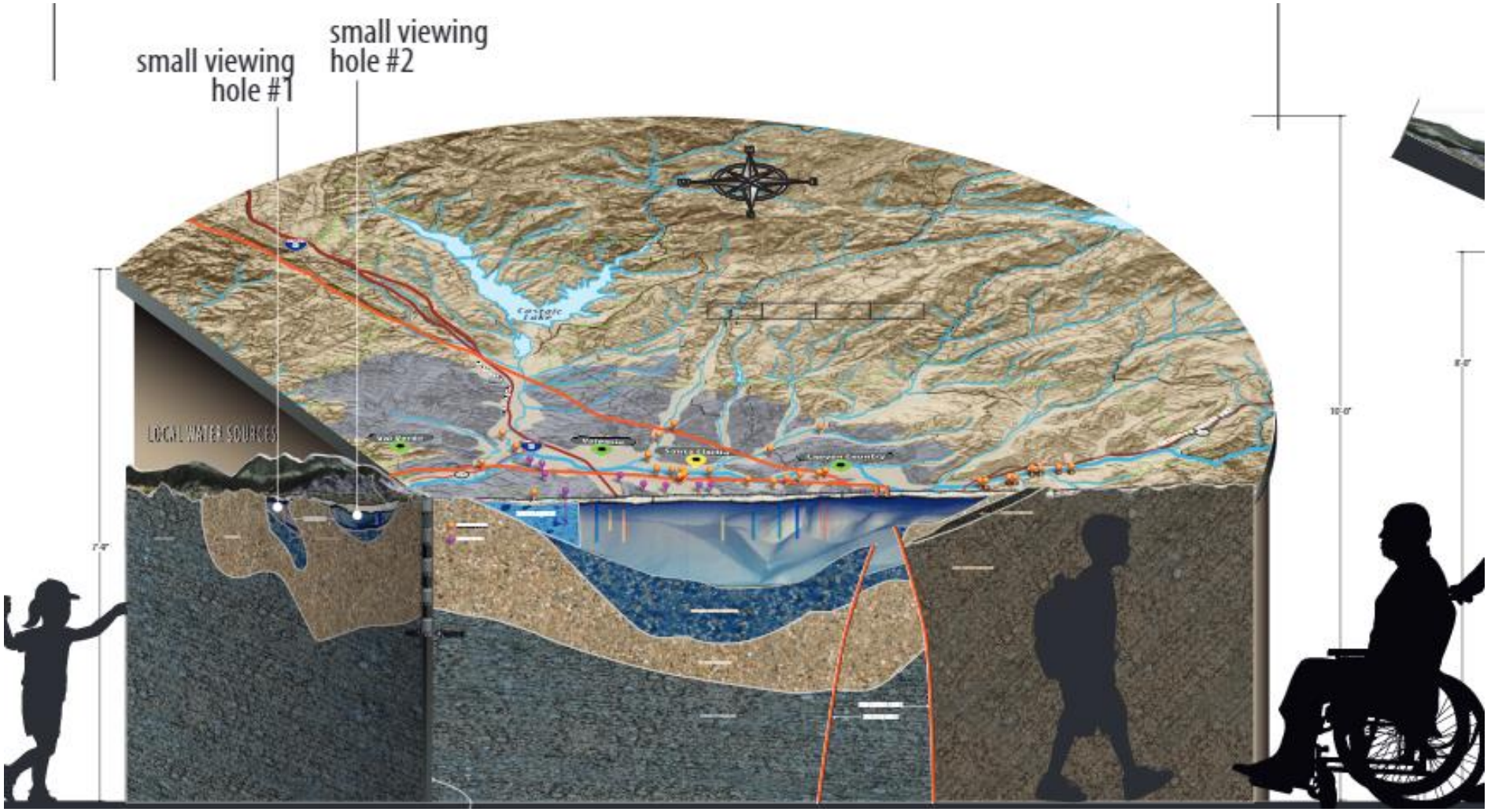


State Water Project
Interactive Map Environment

Water and fiber-optic active teaching tool

bowman.change | Partners/Consultants: edhackley.com | Project: | Client: SCV WATER | Revisions: | 2

Local Aquifers - Exhibit Design



3D Model Demonstration

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(Sample 3-D Model screenshots included at the end of the presentation slide deck)

Engineering Cost Estimate

Initial Cost Estimate (March 2022)

1. **Design Check-In**
   a. Hardscape, Landscape, Structures (~$1.8 Million)
   b. Exhibits (~$600,000)
   c. Structures Shading Options
      i. Shade Sails (~$800,000)
      ii. Shade Trees
   d. Total Cost Estimate = ~$3.2 - $3.5 Million

100% CD Opinion of Probable Cost

1. **Design Check-In**
    a. Construction = $1,769,446
        a. Mobilization, Demolition, Hardscape, Landscape, Irrigation, Grading, Drainage, Signage, Amenities, Electric, Potable Water
    b. Exhibits = $525,000
    c. Structures & Shading Options = $992,812
        i. Garden Pavilion
        ii. Sustainability Shack
        iii. Shade Sails
    d. Contingency (10%) and CPI (2% for 3 years) = $550,053

Total Cost Estimate = $3,837,310

Questions & Discussion

Thank You!

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SCV Water

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3-D Model – Grading and Hardscaping

3-D Model – Exhibits

3-D Model - Trees

3-D Model – Shrubs

3-D Model – Shade Sails