San Bernardino Valley College Landscape Master Plan DRAFT SPURLOCK NAC

March 18, 2024



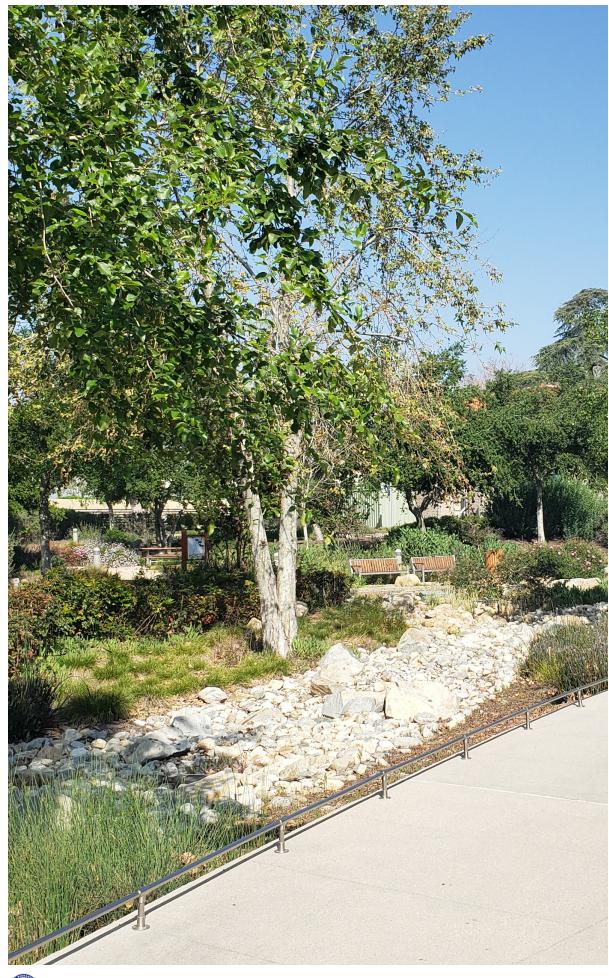


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Document Organization

The Landscape Master Plan is organized in to 5 Sections. A brief description of the information covered in each section is provided and intended to guide the reader on the information being presented in the Landscape Master Plan:

Introduction includes an overview of the site context and existing conditions, project goals resulting from discussion of observation and needs with the SBVC planning team, and comparison of existing campus and proposed enhancements.

Master Plan Components includes a summary of the master plan components and the organizational framework elements that create a cohesive campus identity, clarify wayfinding and provide comfortable, functional and beautiful exterior program areas.

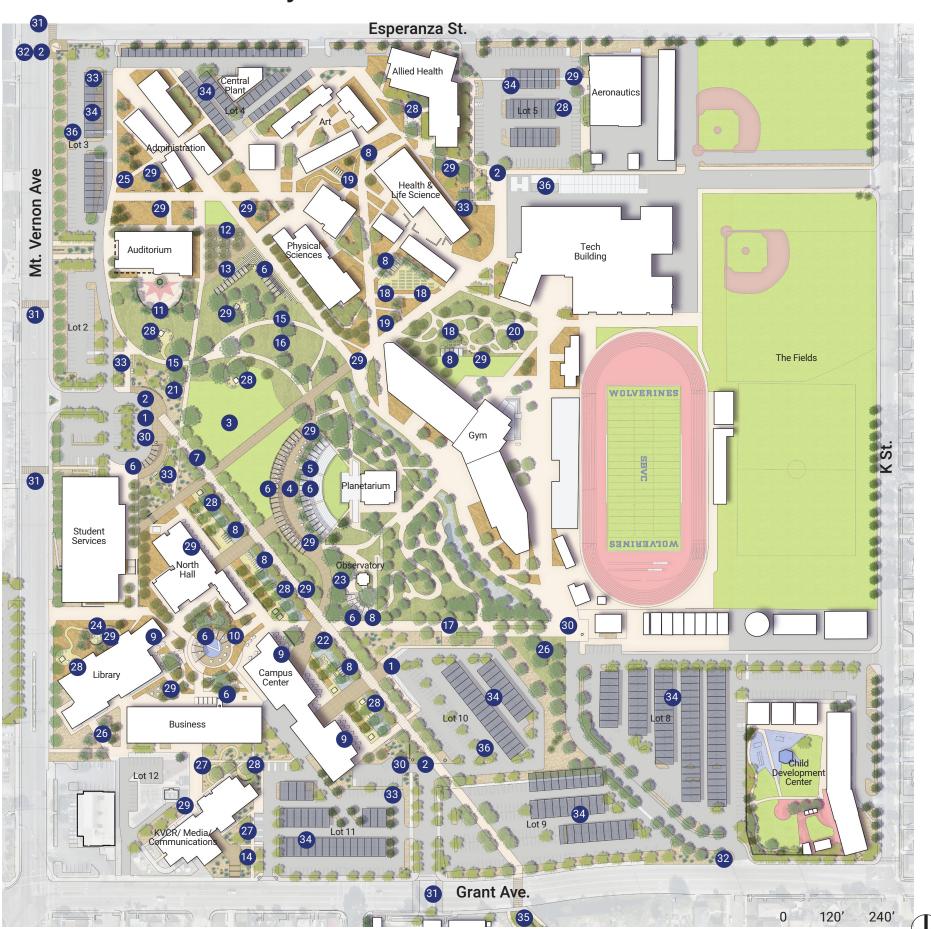
Master Plan Focus Areas includes enlarged conceptual plans and perspective views of the core campus area, illustrating key features of the Landscape Master Plan including new gathering spaces, entry and arrival areas and purposefully reorganized open space incorporating native and locally adapted plant materials.

Landscape Recommendations includes quantified summaries of existing and proposed planting, hardscape as well as material recommendations for each planting zone, and overview of irrigation system improvements.

Phasing and Implementation provides a diagram outlining discrete implementation projects and a description of project components along with an accompanying rough order of magnitude Opinion of Probable Cost.



1—Executive Summary



The purpose of the SBVC Landscape Master Plan (LMP) is to serve as a strategic planning document that will be used as a road map by SBVC leadership and future designers to help guide decision making in the creation of a vibrant, sustainable and welcoming campus. Through extensive collaboration with SBVC users and leadership, the planning team has documented campus community goals and design principles and illustrated strategies to for translating these into physical spaces, leveraging the many wonderful gardens and site assets already present on the campus as well as proposing new approaches to create an environmentally sensitive, inclusive, and functional open space network that can meet the needs of the ever-evolving higher educational community

The many Landscape Master Plan components - including spaces for learning and gathering, landscapes for learning and recreation pure enjoyment and sustainable site features that provide shade, respite and a unique sense of place - are described visually and narratively in the following pages.

Graphic Legend

- Native Planting
- Desert Landscape
- Waterwise Planting
- Low Water Turf
- Stormwater Planting

Legend

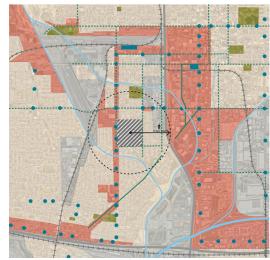
- 1 Drop Off
- 2 Arrival Plaza
- 3 Event Lawn
- 4 Central Event Plaza
- 5 Shaded Greek Theater
- 6 Shade Structure
- Fault Line Promenade
- 8 Outdoor Classrooms
- 9 Outdoor Cafe
- Business Quad
- Auditorium Event Area
- 2 Arts Grove
- Shaded Amphitheater
- 4 KVCR Event Patio
- 15 Oak Trail
- 0ak Savanna
- Richardson Walk
- Community Garden

- 19 Medicinal Garden
- Bio Garden
- Mojave Desert Garden
- Stormwater Garden
- 23 Geology Garden
- Mediterranean Garden
- Chaparral Education Garden
- Foothills Education Garden
- 1 Cottillio Education Gard
- Indigenous Garden
- 28 Collaboration Space
- 29 Informal Seating Area
- Directory Kiosk
- 31 New Crosswalk
- 32 Monument Signage
- E-Bike Charging & Bike Corral
- 34 Solar Shade Structure
- 35 Greenbelt Connection to Student Housing
- 6 EV Charging Station

2—Introduction



Geographical Context



Urban Context



Aerial view circa 2002





Santa Ana Winds

Prevailing Winds

Site Context

community.

SBVC is located in a remarkable geographical setting. Set on the flat valley floor, at the confluence of Lytle and Highland creeks and the Santa Ana river, the campus has distant views to the peaks and foothills of the surrounding San Gabriel, San Bernardino and Box Springs mountains. The Mediterranean climate varies seasonally, with cool, wet, and winters, and dry, hot summers. The campus is buffeted by winds from across the valley and Santa Ana's that pour down the mountain slopes. Providing outdoor spaces that respond to and mitigate these climate conditions is critical to creating a sustainable, healthy and active campus environment.

The San Andreas Fault and San Jacinto Fault zones enter the San Bernardino valley along the San Bernardino Mountains and San Jacinto Mountains, respectively and in fact traverse the campus diagonally from northwest to southeast. Because of seismic risks, the majority of the original campus buildings were demolished in the early 2000's and have been replaced over the years. The earthquake fault and folding zone is a significant portion of the campus, dividing it into two building clusters, leaving The Glade-- which contains the earthquake fault and folding zones-- as the primary open space on campus.

The campus is located in a comparatively transit-rich, mixed use neighborhood with commercial and industrial uses and infrastructure interspersed with residential neighborhoods. The campus is open to its neighborhood for the enjoyment of the community and as open space, parks, and outdoor recreational facilities are not plentiful in SBVC's neighborhood, use of the College campus and facilities is valued. Mt. Vernon is a busy connector street with two transit stops along the campus' frontage, providing convenient multi-modal access to SBVC.

Existing Campus

San Bernardino Valley College (SBVC) is embarking on an exciting chapter in its campus history. With the completion of its 2017 Comprehensive Master Plan (CMP) and implementation of over 6 new building projects that increase classroom and

shared support spaces by over 251,694 square feet, SBVC has prepared this Landscape Master Plan (LMP) is to build upon

and recommendations to help SBVC achieve its goals of beautifying and invigorating its 82 acre campus, creating inviting,

functional, educational and sustainable open spaces that reflect the unique mission, history and character of the SBVC

and give form to the core landscape concepts and recommendations contained in the CMP. The LMP contains a framework

The existing campus comprises 82 acres. About 18 acres that lie within the earthquake fault and folding zones have been set aside as the Glade, a permanent open space. Much of the Glade currently consists of open lawn area. which is low maintenance but demands high water use. The north end of the Glade is lightly populated with large specimen and more recently planted shade trees. The more mature trees grace the areas near historic structures including the Auditorium and the Greek Theater.

The Oak Garden borders the east edge of the Glade and includes small scale seating areas, interpretive trails, stormwater treatment and native plants. The Fault Line Promenade borders the west edge of the Glade and is a main circulation spine connecting north and south campus entries. Distinctive academic courtyards surround the Glade including Arts, Administration and Health Quads and the newly redesigned Business Quad. The Bio Garden is a well-used and much-loved learning garden currently undergoing an expansion including shaded outdoor classroom. The east side of the campus--not a focus of the LMP-- is dedicated to athletic fields and the Child Development Center.

Entry and arrival occurs at parking lots located on the north south and west campus edges. The construction of the Student Services Building will help reinforce the central entry off Mt. Vernon as the main point of arrival. Visual "marguee moments" for the campus occur at the northwest and southeast corners of the campus as well as along the west edge. Other important arrival moments occur at pedestrian entries close to transit stops and entries that are visitor-serving--notably the radio station.









—— Highway

Bus Stop

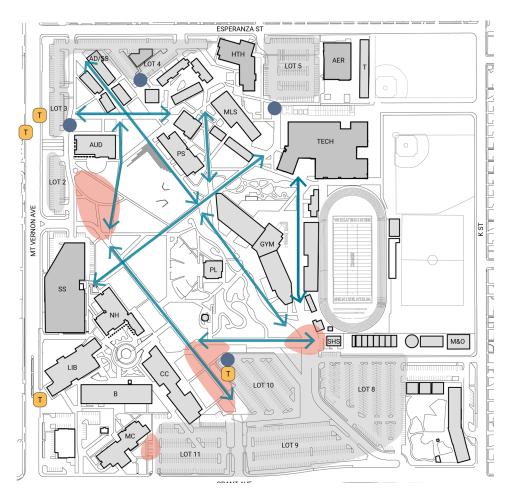
→ → Railroad

Existing Bikeway Proposed Bikeway

Transit Station

View of the campus circa 1933

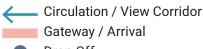




Circulation and Entry

- Multiple arrival points
- Unclear hierarchy
- Weak sense of arrival
- Outdated wayfinding
- Unsafe entries at Northwest and Southwest

Legend



- Drop Off
- Transit
 Parking

Existing Trees and Gardens

- Well-used educational gardens
- Many mature trees
- Excess lawn
- · High maintenance planting
- Outdated irrigation system

Legend

Courtyard Gardens
Educational Gardens

SHS M80

Buffer
Turf

Streetscape

Allee

- Specimen Tree
- Canopy Tree

Gathering and Shade

- Courtyards near buildings well-used
- · Inadequate shade in general
- · Limited outdoor classrooms
- · Parking lots contribute to heat island

Legend

Shady PM

Shady AM
Large Seating

SHS M&O

Medium Seating

Small Seating

Site Observations

Site visits, workshops and study of existing and pipeline landscape spaces formed the basis of the LMP assessment and analysis. The diagrams above graphically summarize key observations of the existing campus open space framework components. These were presented to SBVC community members and leadership in a series of workshops for further discussion. These workshops formed the basis of the LMP design principles and project goals, guided the development of master plan framework strategies, identified project priorities and strategies for implementation.

Summary of Key Observations

Entry and Arrival: Celebrate moments of arrival, improve curb appeal, improve pedestrian safety

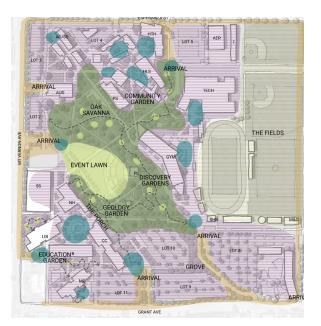
Existing Planting: Many mature trees, well-used educational gardens, too much lawn, high-maintenance, outdated irrigation

Gathering and Shade: Inadequate shade in general, limited outdoor classrooms, courtyards in shade are well-used

Circulation: No clear connection between instructional building clusters

Character: Not a clear sense of identity and unique sense of space

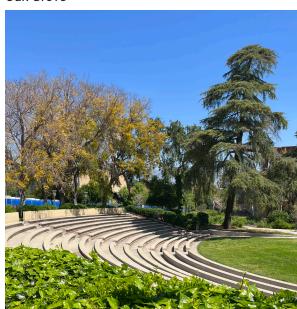




"Onion" scheme



Oak Grove



Greek Theater

Legend

Garden Gathering **Courtyard Gathering**

Native Planting

Streetscape

Waterwise Planting

Athletics



Bio-garden



Auditorium

Design Principles

The Landscape Master Plan strives to build off the historic assets and successful spaces already present on the campus, weaving new gardens, spaces and infrastructure into existing beloved spaces in order to create a strong and enduring sense of place and belonging. The preliminary conceptual diagram to the left-- the "Onion Scheme" --shows layers of landscape and program zones radiating from a central core for community gathering, embodying the following design principles:

- Reflect unique character of SBVC
- Enhance arrival and wayfinding
- Create functional outdoor program and amenities
- Use and interpret sustainable strategies
- Beautify the landscape
- Campus-wide Enriched Outdoor Environment

Project Goals

Improve Comfort, Heat & Shade

- Big trees and shady courtyards
- Shade at all gathering areas
- Comfortable and varied seating

Create a Sense of Place and Beautification

- Street frontage and larger setting
- Define the unique character of SBVC
- Beautify the landscape
- Unique setting
- Indigenous flora and fauna
- Native planting
- Learning landscapes
- Historic Character
- Public art

Improve Wayfinding and Arrival

- Axial nature of fault lines
- Define main drop off zones
- Create pedestrian safe entries
- Holistic signage
- Interpretation

Create opportunities for exterior gathering

- Interior and exterior connections (physical and curriculum)
- · Outdoor classrooms with power and integrated technology
- Outdoor dining
- Varied gardens for community and educational gathering

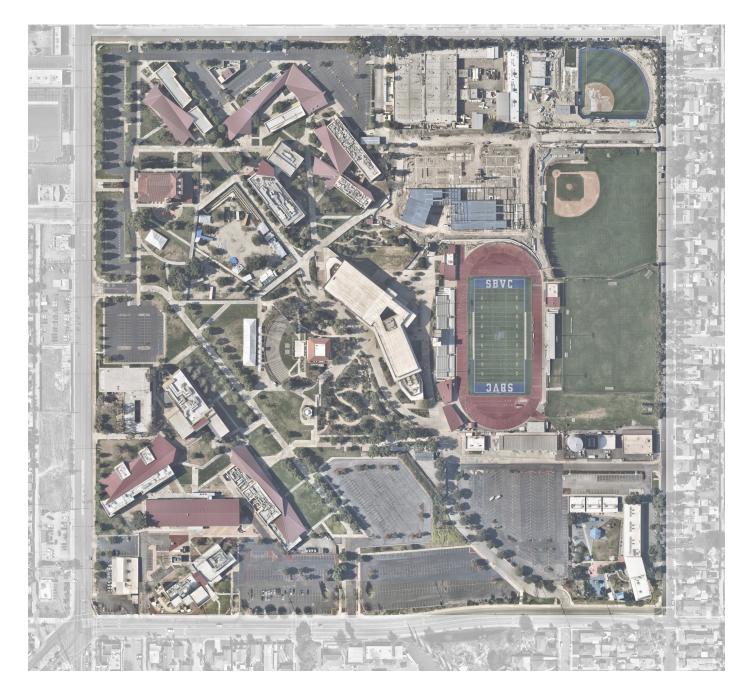
Maintenance and Sustainability

- Native and adapted planting
- Use and interpret sustainability strategies
- Waterwise
- Solar
- **Efficient Irrigation**
- Permeable paving solutions
- Support multimodal transportation
- Trees for shade, carbon sequestration and stormwater diversion
- Low maintenance best practices
- Limit turf to event areas
- Update irrigation systems and standards

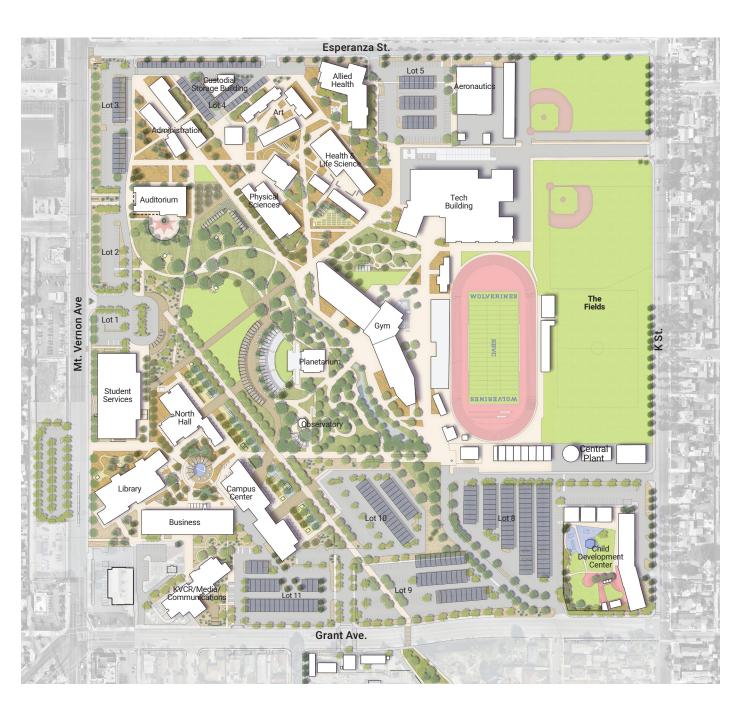


Master Plan Scope

These comparative aerial views of the campus show the majority of existing trees, hardscape, parking and courtyards to remain. The landscape master plan supplements the existing campus features and frameworks with critical new features like seating, shade, outdoor classrooms and learning gardens as described in more detail in the following sections. The majority of recommendations address enhancements to the community-facing edges and entries of the campus, revitalization of the campus core (the Glade), clarification of circulation and wayfinding and introduction of beautiful, durable, sustainable planting strategies to connect, frame and enrich these spaces.



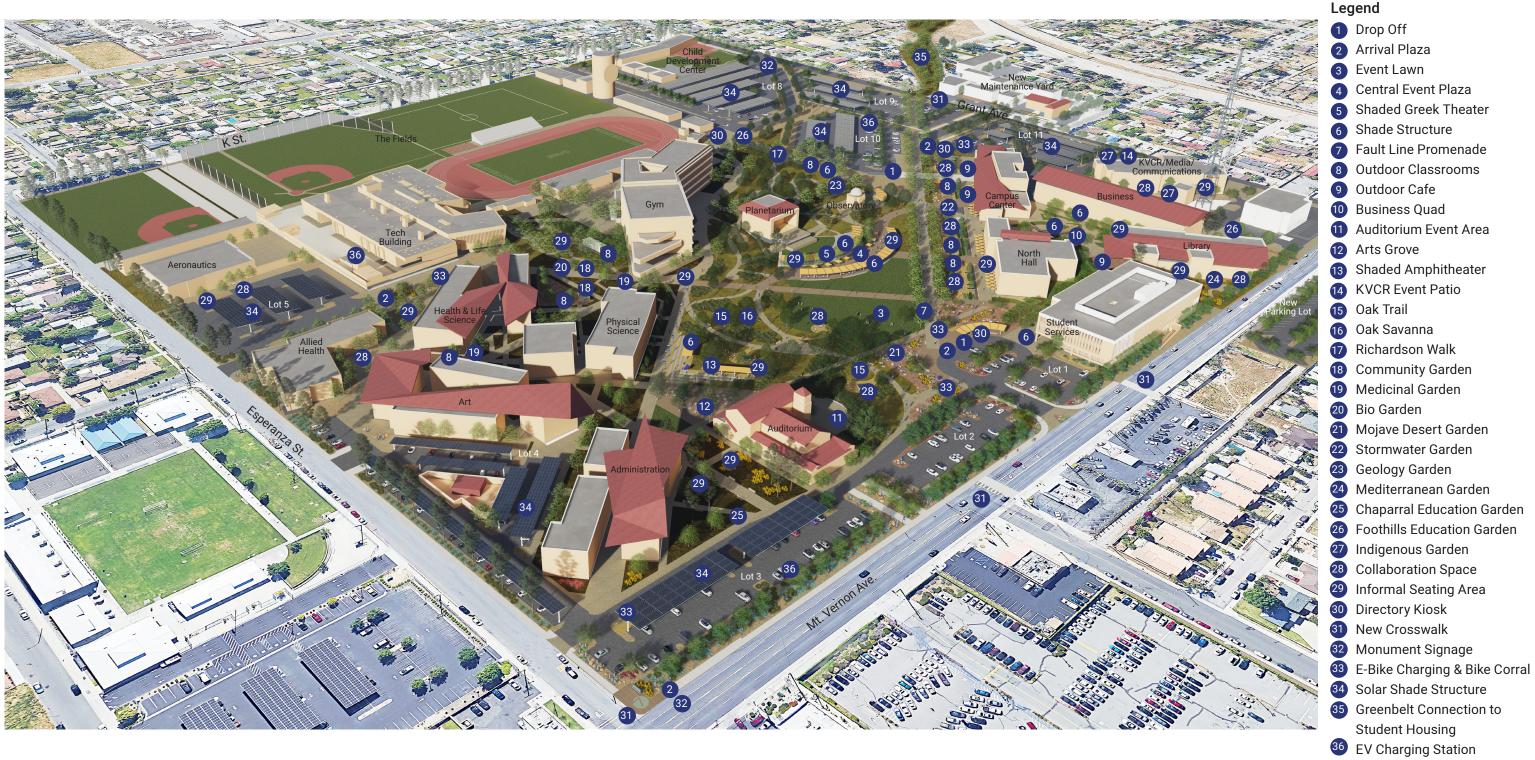
Current Campus Plan



Proposed Master Plan



3—Master Plan Components

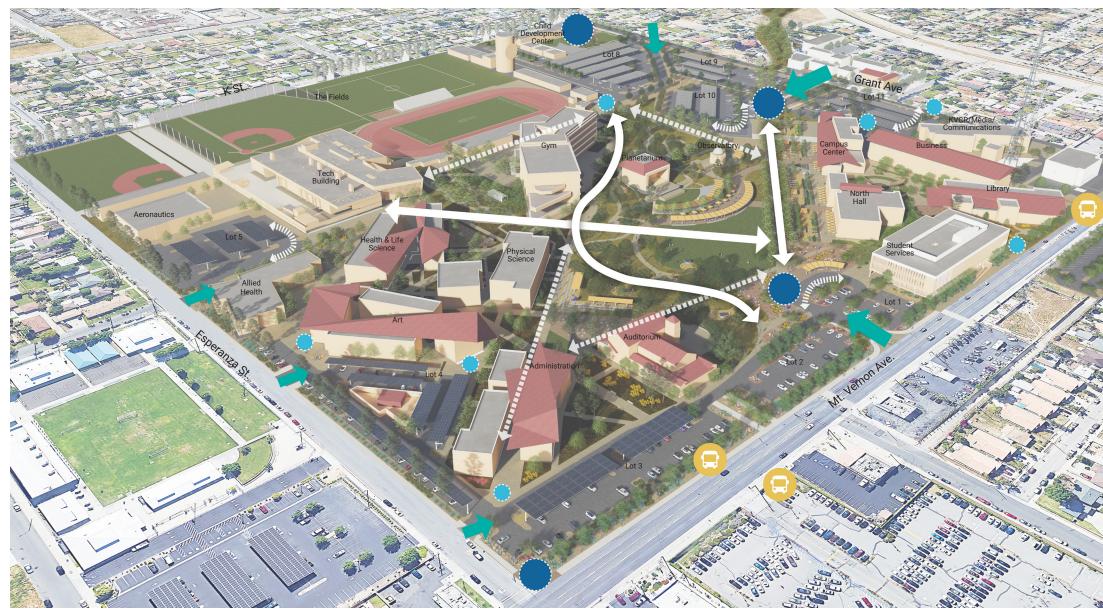


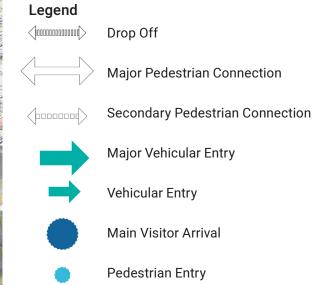
Overall Campus View to Southeast

Existing core SBVC campus open space framework elements are maintained and enhanced including the North Arrival Plaza, Fault Line Promenade, Arts Plaza and Oak Garden. Site enhancements include additional shade via a combination of architectural shade structures, pavilions and canopy trees, strategically located close to main circulation, seating and gathering spaces; native and xeric planting with iconic desert displays at entry and arrival points; purposeful use of lawn at limited event areas; strengthened circulation framework to improve wayfinding; small seating clusters, outdoor classrooms and learning gardens and large event and gatherings spaces to support the full range of community activities throughout the day. The following pages overlay framework elements on this aerial view including circulation, program and gathering, gardens and landscape spaces and sustainability measures that align with Envision Verification Program.



Arrival and Circulation





Transit

Visitor arrival starts at the street with enhanced streetscape planting, iconic desert specimens and monument signage at northwest and southeast campus corners. Pedestrian entries receive similar planting treatment and signage. Major interior arrival plazas are clearly defined through accent hardscape and planting that frame views into the campus along main circulation corridors. The existing Oak Garden trail is extended to the western edge of the campus, intersecting and connecting important secondary paths and promenades while providing access to new seating and program areas in the campus core.











Promenade

Pedestrian Pathway

Welcoming Arrival Experience



Program and Gathering



Additional seating and gathering spaces at a variety of scales accommodate the full range of informal and organized campus activities. Seating areas are located close to circulation for convenience and to encourage interaction and connection. Where possible, seating is located adjacent to existing trees and structures to take advantage of existing shade. New shade structures are proposed at the Greek Amphitheater and adjacent Event Plaza, existing seating steps east of the Auditorium, north Arrival Plaza and proposed Outdoor Classrooms. Outdoor collaboration and classroom spaces include power supplies and charging stations to support studying, and event spaces include power for special audio-visual needs. Large event spaces are located close to vehicular-rated circulation to facilitate equipment loading.

Legend

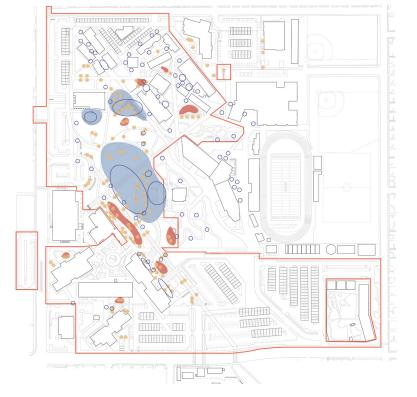
Small

Medium

Larg

Existing Seating

New Outdoor Seating and Program									
Space Type	Description	Total SF/QTY							
Small Gathering Areas									
Informal Seating	Fixed and movable lounge seating, benches and seatwalls	306 (QTY)							
Cafe Seating	Fixed and movable tables and chairs adjacent to buildings	436 (QTY)							
Collaboration Spaces	Fixed and movable seating with power pedestals along circulation	258 (QTY)							
Medium Gathering Areas									
Outdoor Classrooms	Shaded classroom spaces for up to 30 people	3500 (S.F.)							
Learning Gardens	Includes geology, community, indigenous, medicinal and pollinator gardens	50,615 (S.F.)							
Large Gathering Areas									
Event Plaza	40' paved multi-purpose esplanade w/ shade structure	16,268 (S.F.)							
Shaded Amphitheater	Shade structure at existing Greek Amphitheater	4,700 (S.F.)							
Event Lawn	Multi-purpose lawn serving the campus core	46,807 (S.F.)							
Arts Plaza	Tree bosque plaza w/ multi-level seatwalls and shade structure	11,530 (S.F.)							
Auditorium Event Area	Enlarged auditorium event paving	5,120 (S.F.)							





Learning Landscapes



Legend

Iconic Planting

Educational Garden

Native Plant Communities

Stormwater Treatment

Streetscape

Multi-purpose Lawn

The SBVC community and leadership has requested native plant materials be incorporated into the campus landscape framework to reinforce identity and a unique sense of place. This creates opportunities to thoughtfully group and curate plants to represent distinct regional communities such as desert, foothill chaparral and oak savanna; emphasize ethnobotanical uses such as medicinal and edible plants and larger ecological topics such as stormwater treatment, drought tolerant and pollinator gardens. The Landscape Master Plan proposes to expand on the success of existing education and demonstration gardens through the thoughtful selection and placement of thematic plant palettes that support both campus identity as well as pedagogic goals.





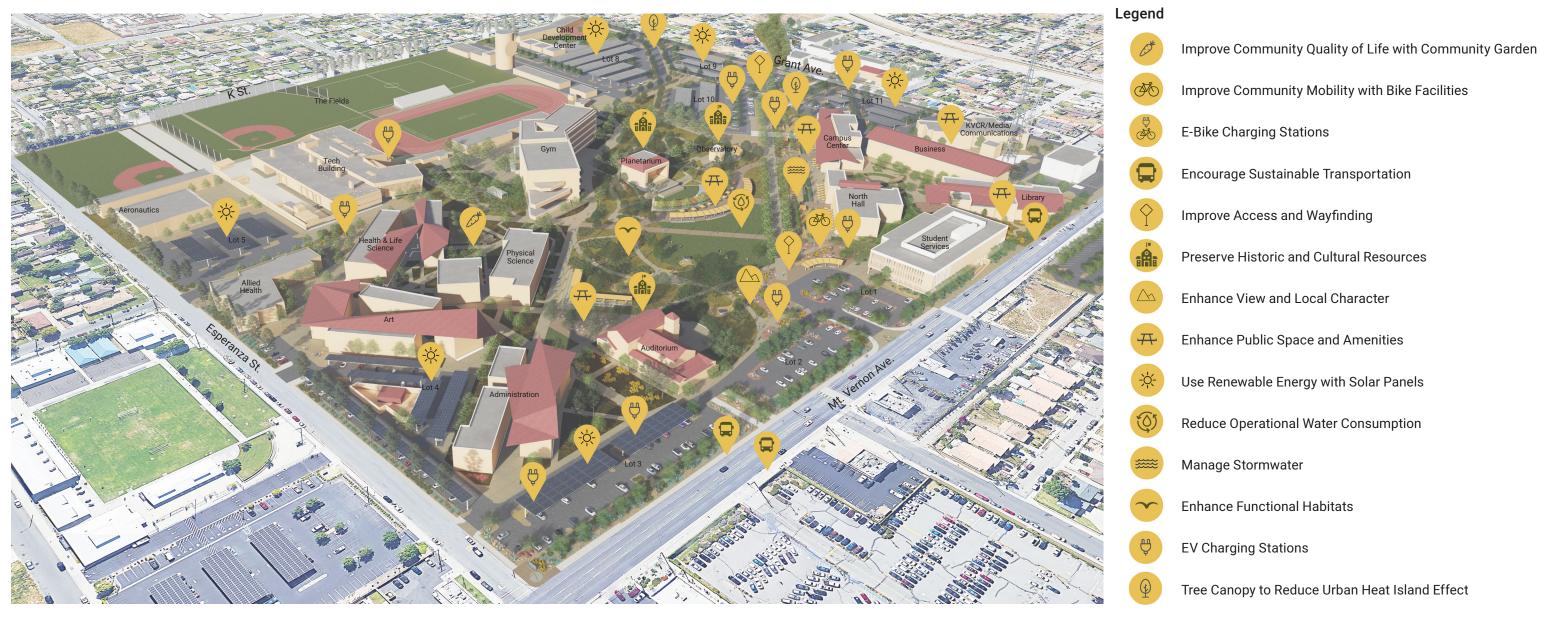








Sustainability









Mobility: Bike Storage



Renewable Energy: Solar Panels

The Landscape Master Plan incorporates a diverse set of strategies to achieve SBVC's sustainability goals and align with Envision Verification Program. These include reducing the heat island effect through installation of shade structures, increasing the tree canopy and limiting hardscape where possible; treating stormwater run-off by draining hardscape to adjacent planting. Locating stormwater treatment areas in low-lying areas of the campus and designing them to be an amenity and learning environment; conserving water through improved irrigation efficiency and the use of native and local adapted plant material; photo-voltaic installations at parking lots and other shade structures; using locally sourced and sustainably manufactured products; encouraging human-powered transportation by improving pedestrian connections and expanded bike facilities; accommodating on-site food production by creating an edible garden for community use.



Sustainability Statement

San Bernardino Valley College is committed to integrating sustainability into every aspect of its campus. Sustainable development is critical for the well-being of our communities, the environment, and future generations. To guide our efforts, the Envision framework provides a comprehensive and holistic approach to sustainability.

The College strives to achieve high levels of sustainability by addressing the Envision categories of Quality of Life, Leadership, Resource Allocation, Natural World, and Climate and Risk. The aim is to create infrastructure and development that enhances the quality of life for all stakeholders, promotes social equity, and respects cultural and historical contexts. By demonstrating exemplary leadership, the College will inspire others and drive positive change in the educational field.

Each component of the Envision framework is a key consideration in the sustainability approach. The College will carefully manage resources such as energy, water, and materials, seeking efficiency and minimizing waste throughout the project lifecycle. We also prioritize the use of renewable and lowimpact materials to reduce our environmental footprint.

Respecting and protecting the natural world is at the core of our sustainability commitment. The College aspires to integrate ecological considerations into our designs, striving to conserve and restore ecosystems, protect biodiversity, and promote resilient landscapes. We also prioritize the reduction of greenhouse gas emissions and the adaptation to climate change impacts to create a more sustainable and resilient future.

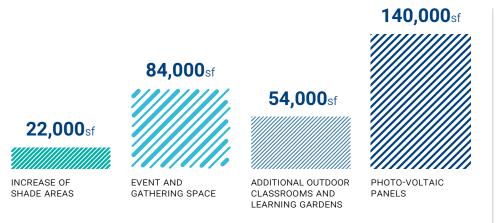
Our sustainability efforts go beyond individual projects. The College will actively engage with our students, stakeholders, professors, administrators, support professionals and communities to foster collaboration and knowledge sharing. By partnering with local organizations and investing in community initiatives, we aim to create lasting positive impacts that extend beyond our project boundaries.

The college embraces a culture of continuous improvement and accountability. We regularly assess our performance against established sustainability goals and strive to exceed industry standards. We also recognize the importance of ongoing education and professional development to ensure our College team is equipped with the latest knowledge and tools to deliver sustainable solutions.

The list of sustainable strategies below represent a start to implement and integrate sustainability into the College. It is by no means a static list. Sustainable strategies are meant to be dynamic to address current and future conditions. They are meant to be flexible so that end users equipped with sustainability for the long term can make logical and intelligible decisions that will impact both the short and long term. The latest San Bernardino Community College District Sustainability Plan and latest Envision Sustainable Infrastructure Framework Version should be used as a basis to inform and develop sustainability goal, objectives, and policies.

In summary, our sustainability statement encompasses the Envision framework by integrating sustainability into every aspect of our work effort from the classroom and administration to our homes and workplaces. Through our commitment to quality of life, leadership, resource allocation, the natural world, and climate and risk, we aim to create infrastructure and development that enhances communities, protects the environment, and leaves a positive legacy for future generations.

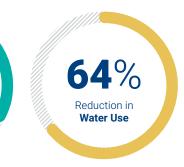
Sustainability Goals



1,000 Individual outdoor seats

Additional bike parking spaces including **E-bike** charging stations to meet **LEED Gold** Criteria







Decreased Maintenance

Including mowing, pruning, pesticides and fertilizer application



Higher-Efficiency Irrigation

Including weather-based controllers, low-flow bubblers, high efficiency rotors and drip irrigation













Envision Framework

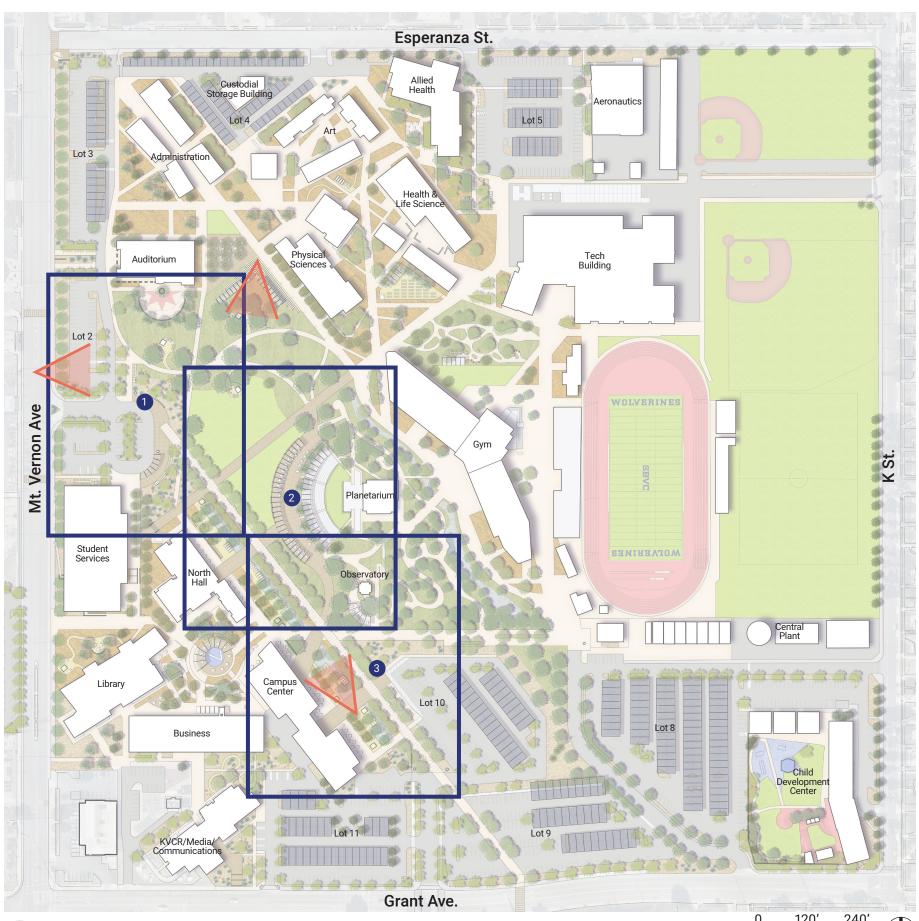
The Landscape Master Plan should be regarded as a companion document to the San Bernardino Community College District Sustainability Plan. Any projects that move forward from this plan should be implemented in coordination with the Sustainability Plan. The Envision Infrastructure Sustainability Framework is a supplemental document to further identify potential sustainability criteria for which actions may apply. Each sustainable action listed in this plan should be vetted for applicability to the appropriate plan or standard. The latest San Bernardino Community College District Sustainability Plan and latest Envision Sustainable Infrastructure Framework Version should be used to infom new projects.

	San Bernardino Community College District Sustainability Plan 2023							Envision Sustainable Infrastructure Framework Version 3					
Landscape Master Plan Sustainable Actions	SBCCD: 1.0 Carbon Mitigation Goal 1	SBCCD: 2.0 Energy Goals 1-6	SBCCD: 3.0 Water Goals 1-4	SBCCD: 4.0 Transportation Goals 1-3	SBCCD: 5.0 Materials Goals 1-2	SBCCD: 6.0 OnGoing Engagement and Transparency Goals 1-2	SBCCD: 7.0 Education Goals 1-2	ENV: Quality of Life	ENV: Leadership	ENV: Resource Allocation	ENV: Natural World	ENV: Climate and Resillence	
Provide 1,000 individual outdoor seats					Х			Х		Х			
Provide 84,000 square fee of event and gathering space					Х	Х		Х		Х			
Provide 54,000 additional square feet of outdoor classrooms and learning gardens		х			Х		Х	Х	Х	Х			
Shade areas increase by 22,000 square feet					Х					Х			
Decreased maintenance, including mowing, pruning, pesticides and fertillzer application			Х						Х	Х	Х		
Provide bike parking spaces including E-bike charging stations				Х				Х		Х			
Implement higher efficiency irrigation, including weather based controllers, low-flow bubbler, high efficiency rotors and drip irrigation			Х							Х			
Provide additional EV parking stalls	Х			Х				Х				Х	
Provide 85% reduction in turf areas			Х								Х		
Provide 90% increase in native planting			Х								Х		
Provide 33% increase in shade trees											Х		
Provide 64% reduction in water use			Х							Х			
Provide 140,000 square feet of photovoltaic panels		Х								Х			





4-Master Plan Focus Areas



Legend

- 1 Main Entry and Arrival Plaza/ Streetscape
- 2 Central Event Plaza/ Event Lawn
- 3 Outdoor Classrooms/ Stormwater Treatment Garden



The three focus plan areas within the Landscape Master Plan have been selected as they collectively include key physical framework elements described in the previous section. The following pages illustrate in more detail the vision for the campus including new and expanded seating and program areas that are conveniently located, shaded and inviting; clarified and strengthened planting and circulation frameworks that define and clarify a distinct and cohesive sense of place, reinforce intuitive wayfinding and as equally important, introduce sustainable strategies that mitigate heat-island effect, reduce maintenance and water use, and celebrate local materials.

Main Entry and Arrival Plaza/ Streetscape



Features

- Drop Off
- 2 Fault Line Promenade
- 3 Arrival Plaza and Shade Structure
- 4 Auditorium Event Area
- 6 Oak Trail
- 6 Mojave Desert Garden
- 7 Oak Savanna
- 8 Waterwise Planting
- 9 Event Lawn
- 10 Stormwater Garden
- 11 Solar Powered Collaboration Table
- 12 Informal Seating Area
- 13 Shaded Amphitheater
- 14 Bench Seating
- 15 Seatwall
- 16 Directory Kiosk
- Relocated SBVC Monument
- 18 E-Bike Charging & Bike Corral
- 19 Collaboration Space
- 20 Relocated Memorial Area
- 21 Desert Foothill Planting



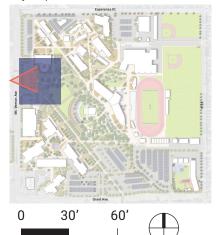


Desert Garden

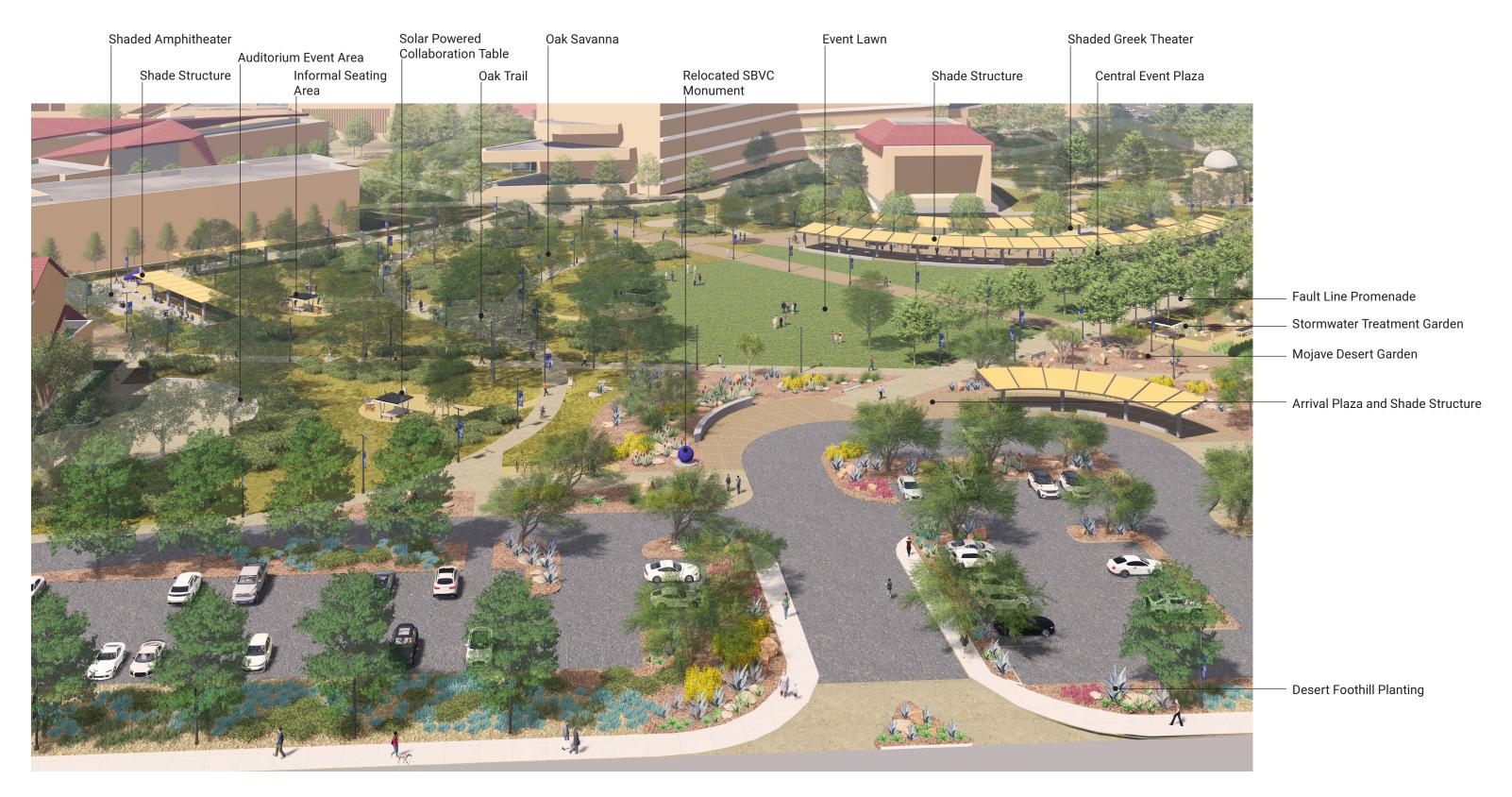


Bike Parking

Key Map







Views to east of Main Entry and Arrival Plaza

Located mid-block off Mt. Vernon Avenue and framed by the historic Auditorium and new Student Services Building, the North Arrival Plaza has expansive views of the heart of SBVC campus activities as well as distant views to the San Gabriel Mountains beyond. New native and drought tolerant planting along the streetscape leads visitors to a welcoming arrival plaza with shaded seating, signage, bike storage facilities surrounded by a dazzling display of specimen succulents and canopy trees that are native to the San Bernardino Valley and Mojave Desert. A campus crossroads, the extended Oak Garden trail and Fault Line Promenade direct students to academic courtyards and campus facilities to the east and south. The expanded Auditorium event plaza, shaded by a ring of canopy trees, and new event esplanade and iconic shade structure, adjacent to the Greek Amphitheater frame seating and gathering spaces set in the Oak Savannah and activities in the multi-purpose event lawn.



Main Entry and Arrival Plaza/ Streetscape Comparison

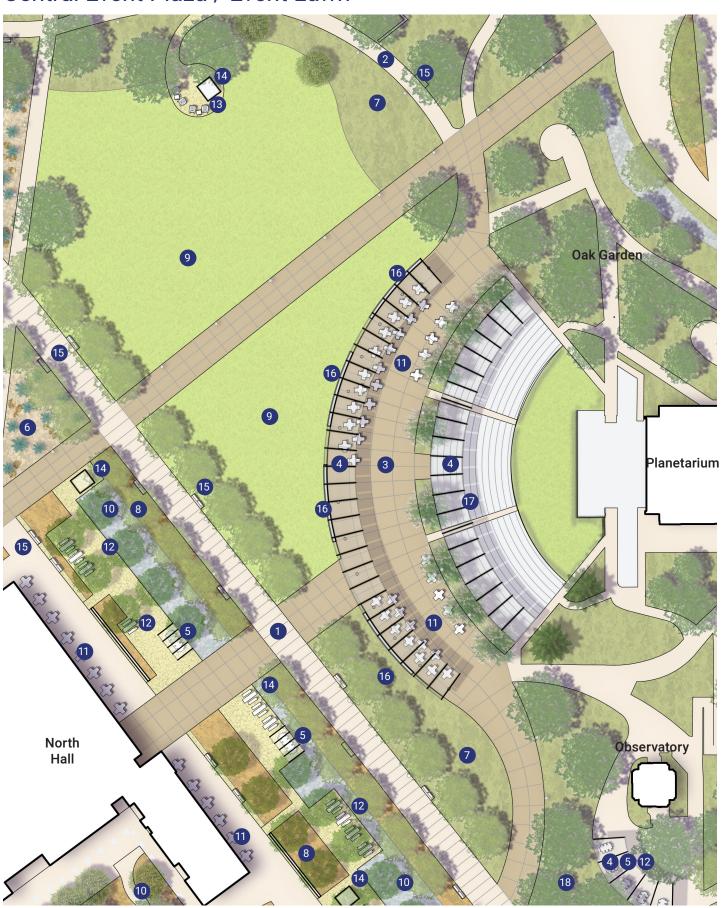




Existing Proposed



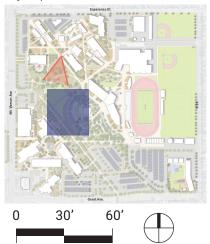
Central Event Plaza / Event Lawn



Features

- 1 Fault Line Promenade
- 2 Oak Trail
- 3 Central Event Plaza
- 4 Shade Structure
- 5 Outdoor Classroom
- 6 Mojave Desert Garden
- Oak Savanna
- 8 Waterwise Planting
- 9 Event Lawn
- 10 Stormwater Garden
- 11 Cafe Seating
- Collaboration Space
- 13 Informal Seating
- 14 Solar Powered Collaboration Table
- 15 Bench Seating
- 16 Seatwall
- 5 Shaded Greek Theater
- 18 Geology Garden







Custom Shade Structure



Informal Plaza Seating



Event Lawn



View to southwest of Central Event Plaza and Event Lawn

The core of the campus, the sequence of gathering and event spaces shown in this view accommodate the full range of campus activities. The existing Arts Plaza and seating stairs are more inviting with a new shade structure. New pedestrian paths and seating and gathering spaces wind through existing Oak and Sycamore creating shady spots to relax, collaborate and people watch. The "right-sized" event lawn is large enough to accommodate occasional tented activities as well as informal recreational activities. The Greek Amphitheater beyond features a new shade structure to provide comfortable seating opportunities for events or outdoor classes.



Central Event Plaza / Event Lawn Comparison





Existing Proposed



Central Event Plaza / Event Lawn - Sample Layout Scenarios



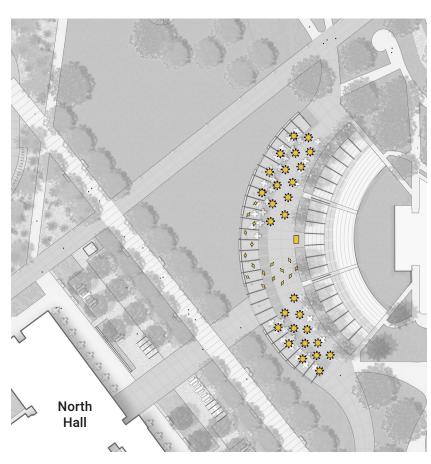
Scenario 1: Campus or Community Fair

- 16,268sf plaza
- 5,720sf plaza shade structure
- (32+) 10'x10' booths



Career Fair



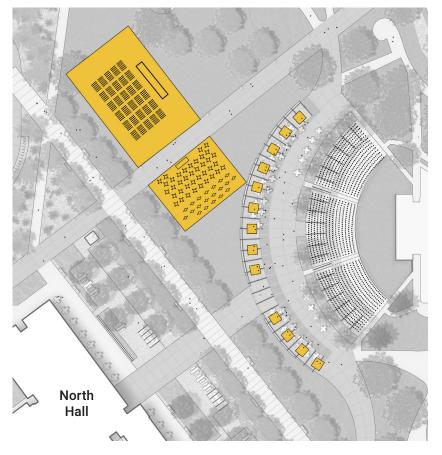


Scenario 2: 250 Person Catered Event

- (25+) 10 person tables
- (17+) cocktail tables
- 200sf stage, podium or speaker space
- 250 seated guests



Awards Ceremony



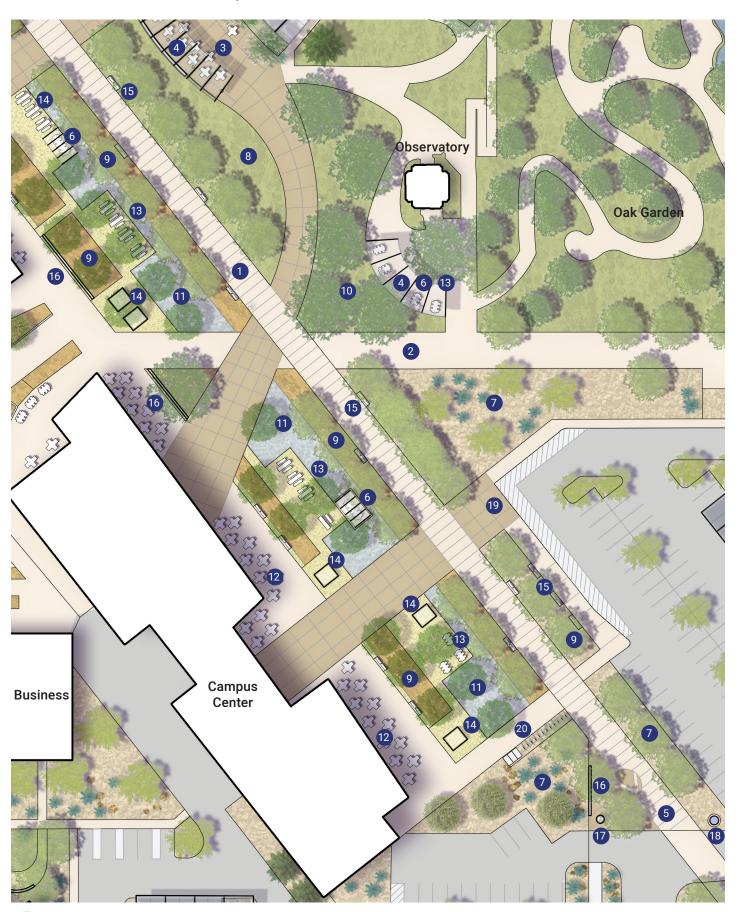
Scenario 3: Large Events

- 7200sf/500 person tent
- 4000sf/200 person tent
- 4,700sf amphitheater shade structure
 1000 person amphitheater seating
- (20) 10'x10' booths



Tented Event

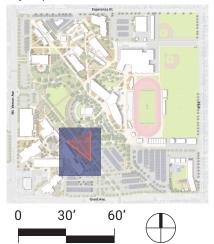
Outdoor Classrooms / Stormwater Treatment Garden



Features

- 1 Fault Line Promenade
- 2 Richardson Walk
- 3 Central Event Plaza
- 4 Shade Structure
- 5 Arrival Plaza
- 6 Outdoor Classroom
- Desert Planting
- 8 Oak Savanna
- 9 Waterwise Planting
- 10 Geology Garden
- 11 Stormwater Garden
- 12 Outdoor Cafe
- (13) Collaboration Space
- 14 Solar Powered Collaboration Table
- 15 Bench Seating
- 16 Seatwall
- 17 Directory Kiosk
- 18 SBVC Monument
- 19 Drop-off
- 20 E-Bike Charging & Bike Corral







Outdoor Classroom



Shaded Study Area



Outdoor Cafe Seating





*Some trees were omitted to visualize the proposed improvements.

View to north of Outdoor Classrooms and Stormwater Treatment Garden

The importance of Fault Line Promenade as a circulation connector and formal campus organizing element—indicating the presence and orientation of the fault lines running through the campus—is further amplified by locating major community gathering spaces parallel and adjacent to the Campus Center and North Hall. A series of open air outdoor classrooms include amenities to support learning including power for laptops and other audio-visual tools, collaboration tables and integrated white boards. Other flexible seating includes a combination of fixed elements like benches and tables as well as some movable furnishings that can be secured at the end of the day. A linear stormwater treatment garden is located between Promenade and seating areas, achieving sustainability goals and providing opportunity for interpretation and learning.



Outdoor Classrooms / Stormwater Treatment Garden Comparison





Existing Proposed

*Some trees were omitted to visualize the proposed improvements.



5—Landscape Recommendations









The following section includes diagrams, material recommendations and accompanying imagery intended to convey the design principles and overall character of exterior spaces. Below is a summary discussion of recommendations for Planting and Hardscape. Irrigation recommendations follow later in this section.

Planting

The Landscape Master Plan includes an overall landscape framework that outlines a new approach to understory planting that supports the following principles:

Celebrate sense of place by using native plant materials including specimen succulents and cacti that are unique to the Mojave Desert and environs as well as locally sourced rock, cobble and boulders as mulch and groundcover.

Be Water Wise by limiting the use of turf to high use event and recreation areas; using a combination native and locally adapted xeric plants that meet or exceed state-mandated water use requirements; incorporating areas of rock and cobble groundcover.

Reduce Maintenance by considering mature size when installing new planting and not over-crowding; using native and locallyadapted plants that are disease and pest resistant; incorporate Integrated Pest Management principles by encouraging pollinators and other beneficial fauna.

Beautify, Engage and Educate by focusing planting displays where the community works, learns and gathers; develop more curriculum-based learning landscapes such as ethnobotanical, medicinal, pollinator and stormwater gardens.

Build an Urban Canopy by preserving and celebrating existing canopy trees and planting new shade trees wherever possible to capture garden, reduce heat island effect and create inviting, cooling spaces that benefit the community and the region.

Lighting

Provide uniform lighting in parking lots, walkways and plazas, avoiding darks spots where possible. Mitigate glare from light fixtures as much as possible with full cutoff features to reduce light pollution. Placement of lighting should be optimized so that nearby tree growth will not block light. Examine industry standards and identify opportunities for up-to-date lighting technologies, following the latest version of the Illuminating Engineering Society standards.

Hardscape

The Landscape Master Plan largely preserves existing circulation and hardscape areas, expanding or editing in some locations to eliminate redundancies or improve accessibility and wayfinding. New circulation, seating and program areas follow the following principles:

Unify the Campus by using materials and finishes that relate to existing campus hardscape, colors, themes and identity. Support intuitive wayfinding through consistent hardscape and site furnishings such as hardscape finishes, site lighting, bollards and benches. Identify focal areas and iconic features such as shade structures that can reinforce campus identity

Articulate major paths, nodes and plazas by using accent paving such as integral color concrete, contrasting finishes and/or score joint patterns. Use medallions and accent panels in select key locations such as arrival plazas.

Prioritize Accessibility by ensuring existing and new paths and plazas meet ADA criteria; providing companion seating at gathering areas and benches with backs and arms.

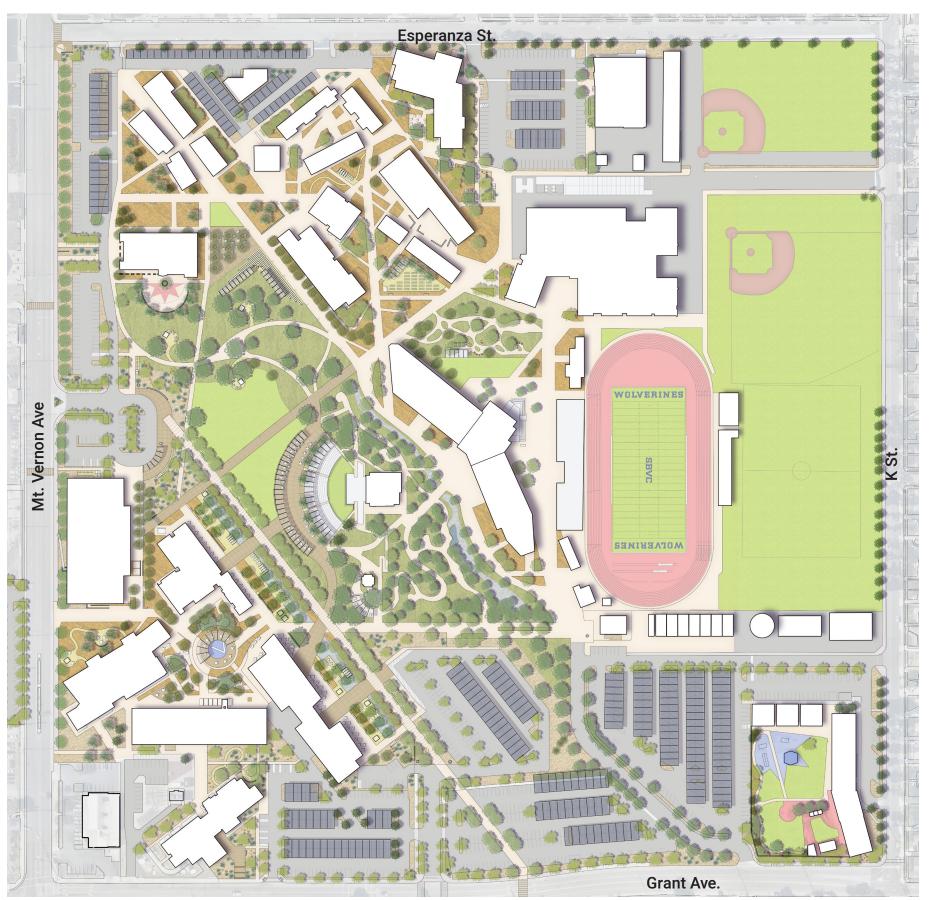
Reduce Stormwater Run-off by using permeable surfaces where possible, draining hardscape to adjacent planting areas and reducing redundant or over-sized hardscape areas. Various stormwater bmps and technologies, such as cisterns, pumps, and control systems can be used to reduce stormwater runoff.

Consider Life-cycle Costs by setting campus standards that incorporate durable, high-efficiency and low-maintenance materials and products for paving, site walls, site furnishings and lighting.

Reduce embodied carbon by specifying materials that use lower levels of cement and low energy processing. All suppliers of hardscape materials should be required to provide an Environmental Product Declaration for comparison of available materials. Materials with lower Global Warming Potential (kg CO2-eq) should be considered. Owner's specifications can be updated to require thresholds for GWP and provide guidance to contractor's in bidding.



Planting Framework



Graphic Legend

Native Planting
Desert Landscape
Waterwise Planting

Low Water Turf
Stormwater Planting

Oak

Canopy Tree

Accent TreeSycamore

The diagrams below show areas of existing planting to be refreshed, areas of turf to be replaced with planting, proposed new trees and existing trees to remain in place.

Converted Planting Legend

Turf Converted to Planting- 275,709 sf
Refreshed Planting

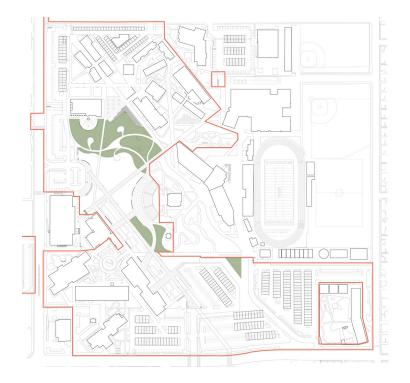


Tree Legend

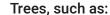
- 205 New Trees
- 623 Existing Trees

Native Planting

Native planting extends from the existing Oak Garden across the proposed Oak Savannah, wrapping the campus core. The use of native plant palettes here helps emphasize SBVC's unique sense of place, celebrates the beauty, fragrance, history and ethnobotanical value of indigenous plant materials while also reaping the benefits of their inherent drought tolerance, pest and disease resistance.



Total Area of Native Planting: 104,654 sf / 2.4 ac



Ceanothus 'Ray Hartman'
Cercis occidentalis, Western Redbud
Heterolmeles arbutifolia, Toyon
Platanus racemosa, Western Sycamore
Quercus spp.
Rhus laurina, Laurel Sumac
Populus fremontii, Western Cottonwood
Salix spp., Arroyo Willow

Alnus rhombifolia, White Alder

Shrubs, such as:

Mahogany Artemesia californica, California Sagebrush Baccharis pilularis, Coyote Brush Carpenteria californica, Bush Anemone Ceanothus griseus var. horizontalis, Wild Lila

Arctostaphylos cercocarpus, Mountain

Ceanothus griseus var. horizontalis, Wild Lilac Encelia californica, California Brittlebrush Eriogonum fasciculatum, California Buckwheat Fremontodendron californicum, California Flannelbush

Myrica californica, Pacific Wax Myrtle Prunus ilicifolia

Rhamnus crocea, Spiny Redberry Rhus integrifolia, Lemonadeberry Ribes speciosum, Currant

Grasses and Perennials, such as:

Achillea millefolium, Common Yarrow
Achillea x 'Moonshine', Moonshine Yarrow
Asclepias eriocarpa, Monarch Milkweed
Corethrogyne filaginifolia, California Aster
Dendromecon rigida, Island Bush Poppy
Eriophyllum confertiflorum, Golden Yarrow
Festuca californica, California Fescue
Galvezia speciosa 'Firecracker', Snapdragon
Leymus 'Canyon Prince,' Canyon Prince Wild Rye
Mimulus aurantiacus, Bush Monkey Flower
Muhlenbergia rigens, Deer Grass
Penstemon spectabilis, Showy Penstemon
Salvia apiana, White Sage
Salvia mellifera, Black Sage
Salvia clevelandii, Cleveland Sage



Native Grasses and Decorative Rock



Demonstration Habitat Garden



Native Meadow



Trees such as:



Ceanothus 'Ray Hartman'



Cercis occidentalis



Heterolmeles arbutifolia



Platanus racemosa



Quercus agrifolia





Artemesia californica



Baccharis pilularis 'Pigeon Point'



Ceanothus griseus var. horizontalis



Myrica callifornica



Dendromecon rigida

Perennials and Grasses such as:



Eriogonum fasciculatum



Mimulus aurantiacus



Galvezia speciosa 'Firecracker'



Salvia clevelandii

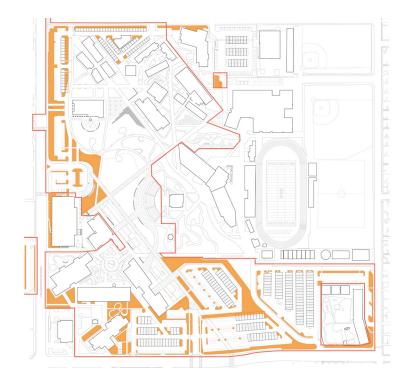


Epilobium canum



Desert Planting

Similar to native planting, the Desert Plant palette celebrates SBVC's unique sense of place, displaying the sculptural forms, textures, adaptive characteristics and distinctive beauty of desert plants. Located along the campus perimeter and at major entry points, Desert planting asserts SBVC's pride in and identity with the neighboring Mohave Desert.



Total Area of Desert Planting: 222,844 sf / 5.1 ac

Trees, such as:

Chilopsis linearis, Desert Willow Olneya testota, Desert Ironwood Parkinsonia 'Desert Museum', Palo Verde Prosopis glandulosa, Honey Mesquite Yucca spp. Acacia willardiana, Palo Blanco

Shrubs and Succulents, such as:

Acacia redolens, 'Desert Carpet'
Agave spp.
Calliandra californica, Baja Fairy Duster
Dasylirion wheeleri, Desert Spoon
Echinocactus grusonii, Golden Barrell Cactus
Encelia farinosa, Brittlebush
Hesperaloe, Desert Flamenco
Hesperoyucca whipplei, Our Lord's Candle
Justica californica, Chuparosa
Leucophyllum Frutescenes, Texas Sage
Opuntia robusta, Wheel Cactus
Peritoma arborea, Bladderpod
Teucrium x lucidrys, Hedge Germander
Tecoma x 'Sunrise,' Sunrise Esperanza

Perennials and Grasses, such as:

Baileya multiradiata, Desert Marigold Dalea capitata, Lemon Dalea Penstemon heterophyllus, Foothill Penstemon



Iconic Succulent Garden



Desert Trees



Decorative Rock and Desert Groundcover



Trees such as:



Chilopsis linearis



Olneya testota



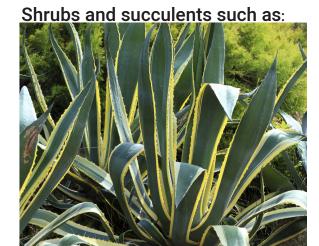
Olneya testota



Parkinsonia 'Desert Museum'



Prosopis glandulosa



Agave americana



Agave attenuata



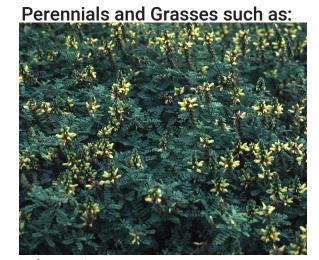
Dasylirion wheeleri



Echinocactus grusonii



Opuntia robusta



Dalea capitata



Encelia farinosa



Hesperaloe



Leucophyllum Frutescenes

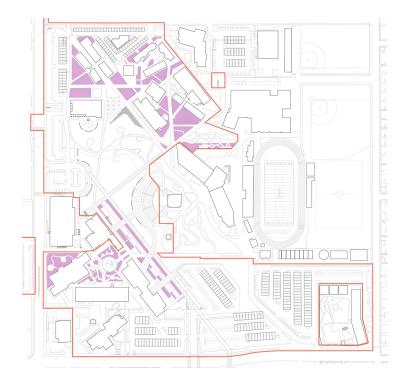


Penstemon heterophyllus



Waterwise Planting

This category encompasses the wide range of non-invasive, non-native plants from around the globe that are well-adapted to SBVC's Mediterranean, semi-desert climate. This includes a spectrum of trees, shrubs and flowering perennials that meet low-water use criteria. Already present in a number of newly planted projects on campus, the diversity of plant materials in this category make it well-suited to spaces with focal interest and distinctive character such as academic courtyards and quads.



Total Area of Waterwise Planting: 102,311 sf / 2.3 ac

Trees, such as:

Brachychiton acerifolius, Flame Tree Cercis occidentalis, Western Redbud Geijera parviflora, Australian Willow Lagerstroemia indica, Crape Myrtle Pinus eldarica, Afghan Pine Rhus lancea, African sumac Tipuana tipu, Tipu Tree

Shrubs, such as:

Acacia redolens, Desert Carpet
Bulbine frutescens, Stalked Bulbine
Callistemon 'Little John' Dwarf Callistemon
Cistus spp, Rockrose
Lantana camera, 'Gold Mound'
Leonotis leonurus, Lions Tail
Mukdenia rossii, Red-Leaf Mukdenia
Pittosporum tobira 'Variegata', Variegated Japanese Pittosporum

Pittosporum tobira "Variegata", Variegated Japanese Pittosporu

Rosmarinus sp., Rosemary

Santolina chamaecyparissus, Lavender Cotton

Tecoma stans, Esperanza

Verbena lilacina, de la mina

Verbena rigida, Sandpaper Verbena

Westringia fruticosa, Coast Rosemary



Background Planting



Garden Room



Waterwise Planting Palette



Trees such as:



Brachychiton acerifolius



Geijera parviflora



Lagerstroemia indica



Rhus lancea



Tipuana tipu



Acacia redolens



Callistemon 'Little John'



Pittosporum tobira 'Variegatum'



Rosmarinus sp.



Westringia fruticosa



Leonitis leonurus



Cistus sp.



Lantana camera



Santolina chamaecyoarissus

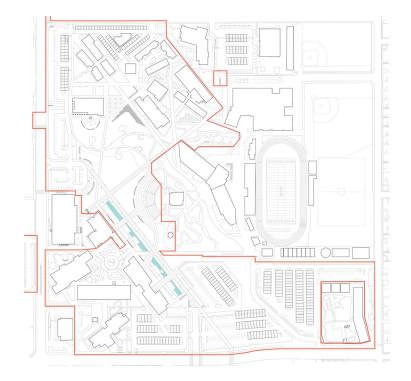


Verbena lilacina



Stormwater Planting

The interstitial space between the Fault Line Promenade and new seating and out door classrooms is well suited for stormwater treatment as it lies at a low point on the campus and can be used for interpretive purposes similar to the existing stormwater garden at the Oak Garden. Plants in this location are native and selected for their general drought tolerance as well as their ability to withstand periodic inundation during rain events. Note final locations and total required square footage to be determined by Civil Engineer as part of project implementation strategy.



Total Area of Stormwater Planting: 11,367 sf / .26 acres

Trees, such as:

Alnus rhombofolia, White Alder Cercis occidentalis Platanus racemosa, Western Sycamore Populus fremontii Salix laevigata, Polished Willow

Shrubs, such as:

Anemopsis californica, Yerba Mansa Baccharis salicifolia, Mulefat Epilobium canum, California Fuchsia Erigonum fasciculatum, California Buckwheat Iva hayesiana, San diego Marsh Elder Ribes viburnifolium, Catalina Currant Salix laevigata, Red Willow

Grasses, such as:

Carex divulsa, Berkeley Sedge Chondropetalum tectorum, Small Cape Rush Juncus spp. Leymus condensatus 'Canyon Prince', Canyon Muhlenbergia rigens, Deer Grass Prince Giant Wild Rye



Stormwater Treatment Demonstration



Locally Sourced Boulders and Cobble



Vegetated Swale



Trees such as: Alnus rhombofolia Cercis occidentalis Shrubs such as:





Chondropetalum tectorum



Platanus racemosa

Epilobium canum













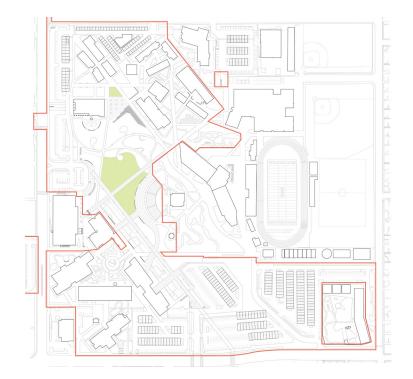
Carex divulsa

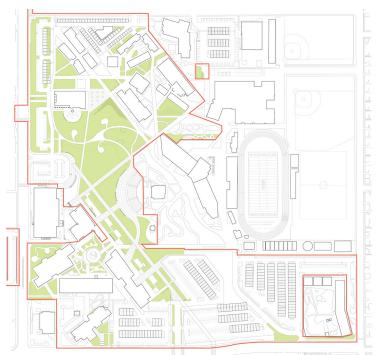
Achillea millefolium

Grasses such as:

Low Water Turf Planting

The amount of turf area in the core of campus has been reduced by 85% to 46,807 square feet/ 1.0 acres. It is located adjacent to the Central Event space where it can accommodate tented events and recreational activities. In addition, there are number of options for turf that consumes less water as well as "no-mow" species that can be left long and mowed for special events.





Total Area of Low Water Turf Planting: 46,807 sf / 1.0 acres

Open turf areas are a prime opportunity to implement a stormwater capture and use system. Capture and use refers to a specific type of stormwater BMP that operates by capturing stormwater runoff and holding it for efficient use at a later time. On a commercial or industrial scale, capture and use BMPs are typically synonymous with cisterns, which can be implemented both above and below ground. In the case of open turf areas, these systems would be buried underground. These systems typically include a pre-treatment device and pump with post treatment. Cisterns are sized to store a specified storm event with no surface discharge until this volume is exceeded through an overflow device. The primary use of captured runoff is for subsurface drip irrigation. Other uses may be proposed, but typically require increased post treatment levels. The temporary storage of surface runoff reduces the runoff volume from a property and may reduce the peak runoff velocity for small, frequently occurring storms. Alternatively, drywells can be used to infiltrate the storm event to recharge the groundwater. In addition, by reducing the amount of stormwater runoff that flows overland into a stormwater conveyance system, less pollutants are transported through the conveyance system into local streams and the ocean. The on site use of the harvested water for non-potable domestic purposes conserves city supplied potable water and, where directed to unpaved surfaces, can recharge groundwater in local aquifers.

Total Area of Existing Turf Planting: 322,516 sf / 7.4 acres

Recommended Low Water Turf Alternatives:

Hydro Seed Mix:

Native Fescue Mix (S&S Seed)

- Festuca rubra Molate,
- ·Festuca idahoensis,
- •Festuca ovina var. ingrate Mokelumne

UC Verde Buffalo Grass

Sod:

Native Bentgrass - Agrostis pallens (Westcoast Turf) Native Fine Fescue - Festuca rubra 'Molate' (Westcoast Turf) Kurapia - Lippia nodiflora 'Kurapia' (Westcoast Turf) Native Mow Free Sod (Delta Bluegrass)



Mowable Meadow



Low Water Turf

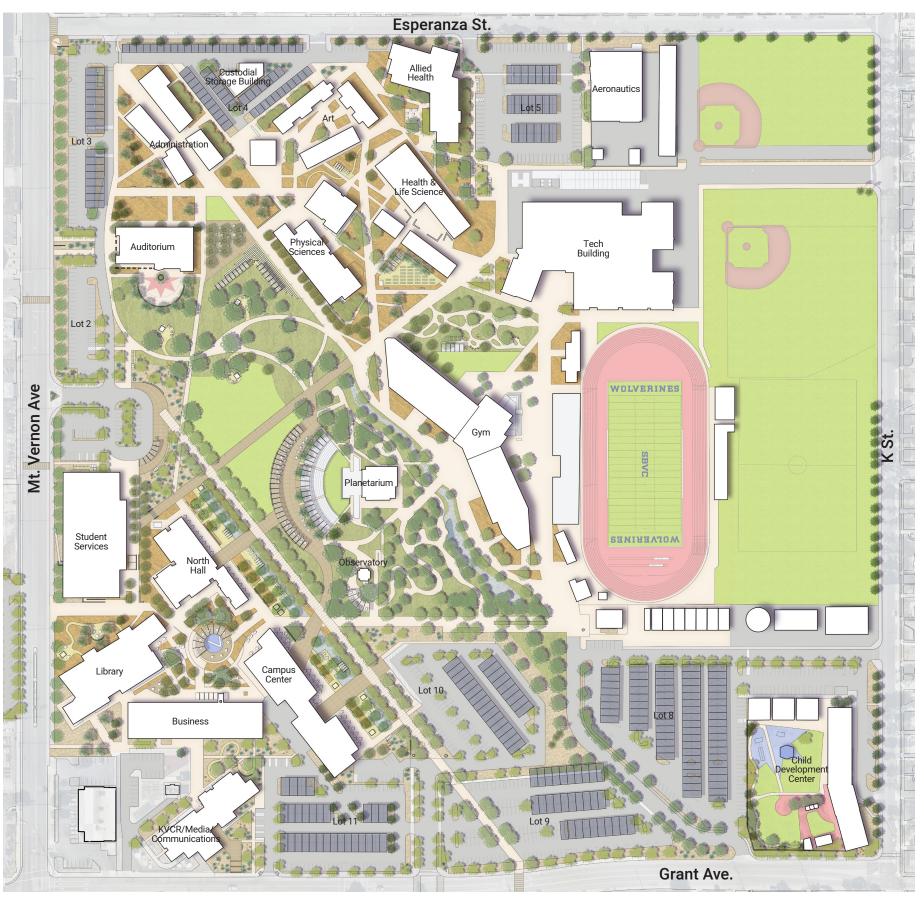


Event Lawn





Hardscape and Site Furnishings



Graphic Legend

Paving
Accent Paving
Porous Paving
Asphalt Paving
Rock Mulch



Paving Legend

New Paving: 80,679 sf
Removed Paving: 11,028 sf

Rock Mulch: 234,211 sf



Shade AM

Shade Structure (14,695 sf) New Tree Shade (6,150 sf)



120' 240'



Small Gathering



Legend

Small Gathering



Cafe Tables and Chairs



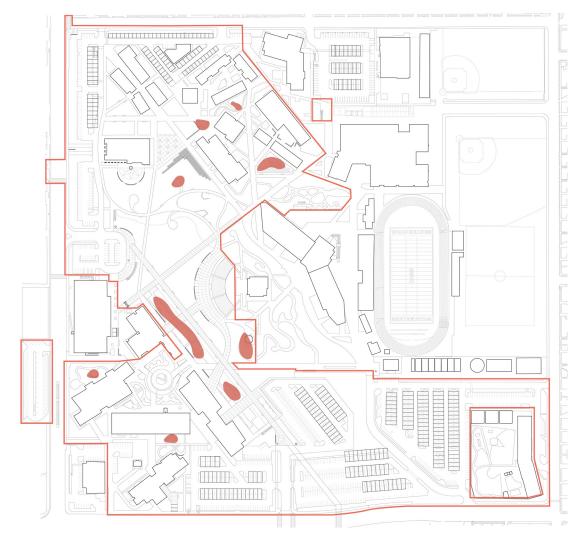
Collaboration Table



Communal Space



Medium Gathering



Legend



Medium Gathering



Learning Garden



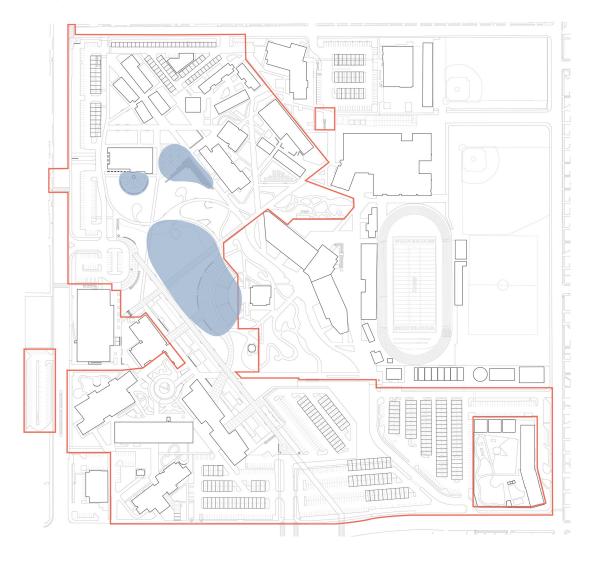
Park Outdoor Classrom



Plaza Outdoor Classroom



Large Gathering



Legend



Large Gathering



Events Plaza



Event Lawn and Performance Stage



Shaded Amphitheater



Bench Low-High Recommendations











Concrete Bench Low

Concrete Bench Low

Freestanding Powdercoated Metal Bench Medium

Recycled Plastic Bench High

Freestanding Bench with Wood Seat/ Back High

Cafe Seating Low-High Recommendations



Mor

Steel and Recycled Plastic Medium



Wood and Steel Mounted Table/ Chairs Medium



Aluminum/ Wood Mounted Table/ Benches Medium

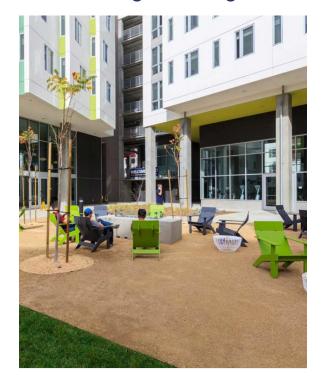


Mounted Cafe Table with Umbrella High

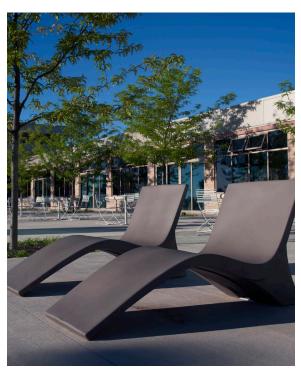


Concrete

Fun Seating Low-High Recommendations



Recycled Plastic Adirondack Armchairs Low



Plastic Chaise Lounge Low



Hammock Loungers Low



Hanging Basket Chairs Low



Fixed Chaise Lounge Medium



Recycled Plastic and Steel Lounger Medium



Wobble Seatsl Medium



Organic Shaped Concrete Seats Medium



Wood and Steel Swing High



Seating Nook Canopy High



Collaboration Table Low-High Recommendations



Collaborative Table - Concrete Low



Concrete Table Medium



Collaborative Table - Wood and Steel Medium

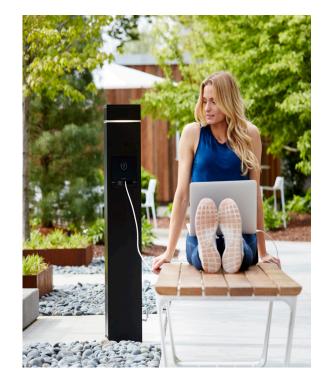


Collaborative Table - Recycled Plastic Medium

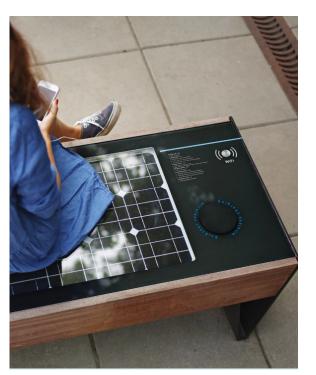


Collaborative Table - Wood and Steel High

Technology Low-High Recommendations



Charging Station Low



Solar Powered Bench with Wifi Medium



Solar Powered Bench with Charging Station High



Solar Powered Bench with Charging Station High



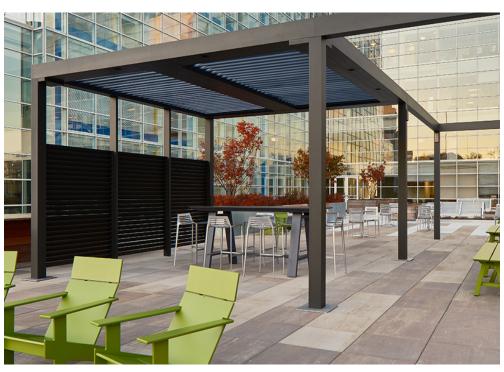
Solar Powered Tables with Charging Station High



Outdoor Classroom Low-High Recommendations



Shade Sails Low

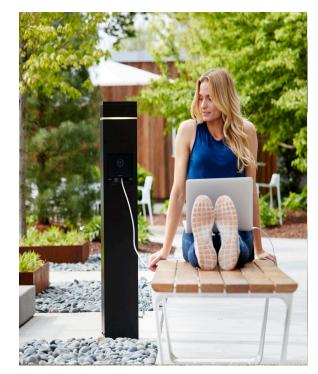


Prefabricated System Medium



Custom Classroom Pavilion High

Shade Stategies Low-High Recommendations



Cafe Table with Umbrella - Wood and Metal Low



Shade Sails Medium



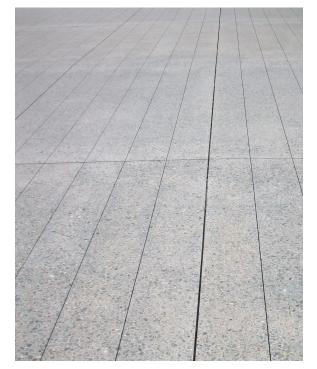
Prefabricated Shade Structure High



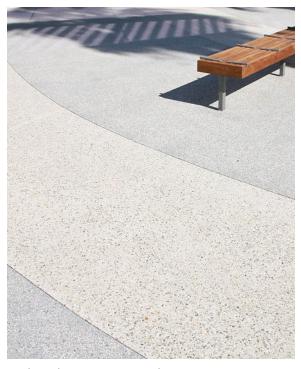
Custom Shade Structure High



Accent Paving Low-High Recommendations



Standard Paving with Sawcut Jointing Low



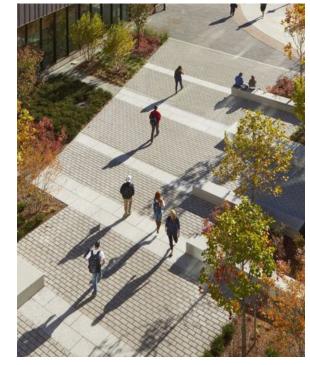
Colored Concrete Banding Low



Uniform Unit Pavers Medium



Large Scale Unit Pavers High



Mixed Size and Color Unit Pavers High

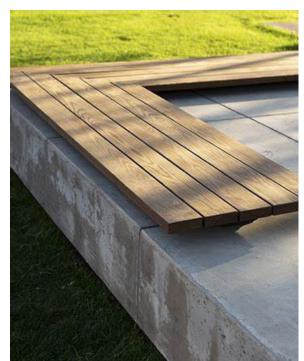
Seatwall Low-High Recommendations



Concrete Seat Wall Low



Concrete Seat Wall with Back Medium



Concrete Seat Wall with Top-mounted Bench Medium



Concrete Seat Wall with Recessed Bench High



Concrete Seat Wall with Wood Seat and Back High



Litter Bin Low-High Recommendations



Concrete Litter Bin Low



Concrete and Steel Litter/ Reycle Bin Medium



Steel Litter/ Reycle/ Compost Bin High

Drinking Fountain Low-High Recommendations



Drinking Fountain Low



Drinking Fountain with Bottle Filler High

Bike Low-High Recommendations



Bike Rack Low



Bike Maintenance Station Low



Bike Locker Medium



Electric Bike Share High



Bike Shelter High

Planting Low-High Recommendations



Hydroseed Installation Low



High



60" Box Tree High



Plugs Planting Low



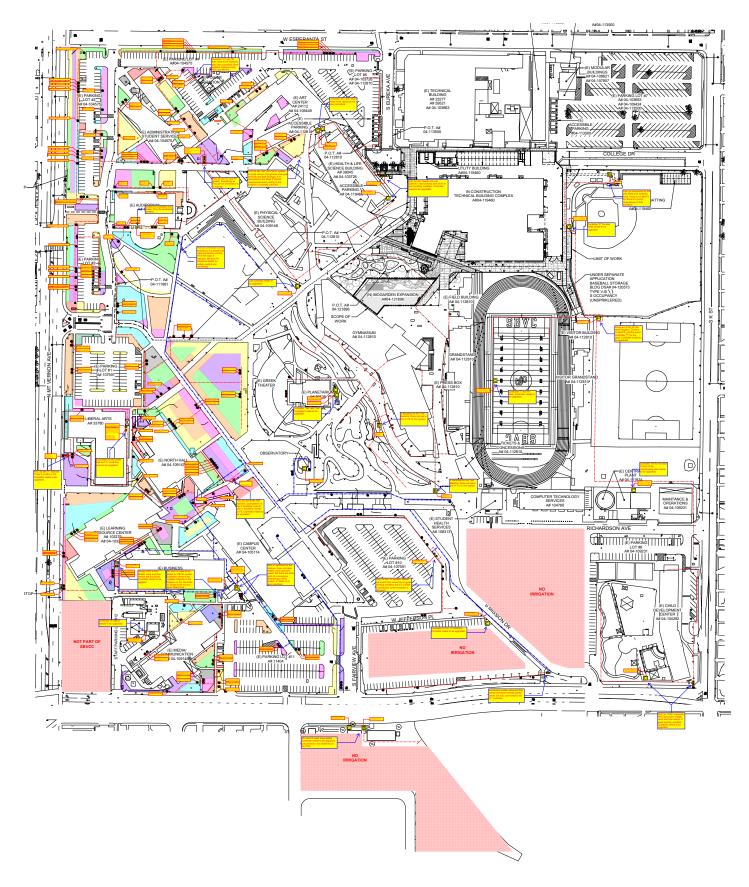
Container Planting High





Irrigation - Existing Core Equipment

Overall Existing Irrigation System





Irrigation

Summary of Existing Irrigation Observations

- All existing controllers are Rain Master DX controllers. These existing controllers are
 central control capable weather based smart controllers with water management control
 capabilities. These controllers also have master valve and flow sensor capability for
 efficient monitoring of irrigation systems. There was a total of twenty-one (21) existing
 DX controllers observed on the site.
- There are a total of seventeen (17) existing irrigation points of connections (POC) for the existing site. Most of the existing irrigation POCs do not have master valves and flow sensors. A total of six (6) of the existing POCs had master valves and flow sensors.
- Rain Bird PEB series valves were seen throughout the majority of campus. These valves are high grade professional series plastic valves, ideal for use on sites such as this campus. Most of the existing remote-control valves are in good functioning condition.
- Most large rotor zones observed appeared to be well designed and in good condition.
 These systems appeared to be providing appropriate coverage for the irrigated areas.
 Rotor heads are utilized for larger turf and shrub areas. Hunter I-20 rotors were the most observed existing rotors.
- Most of the spray head zones appeared to be providing adequate coverage and in good condition. Spray heads are utilized for smaller turf and shrub areas. Some of these existing overhead spray zones were older systems, some even utilizing very old, outdated brass sprinkler heads. Many systems observed had mixed nozzles with differing precipitation rates within the same zone. The use of mixed precipitation rate nozzles within a single zone provides inefficient irrigation as it can cause over or underwatering of plants within the zone.
- Drip irrigation was observed in some of the existing planter areas. Drip irrigation systems are typically more efficient than conventional overhead spray and rotor systems. Most of the existing drip systems observed were Netafim in-line drip and appeared to be in relatively good condition. Drip systems observed appeared to be missing PVC headers and footers. The use of PVC headers and footers for these inline drip systems provides for a more durable system and more even supply of water for the drip lines. The existing drip systems also appeared to be missing flush valves and indicator heads. Flush valves allow for the efficient flushing of the driplines to prevent potential clogging by debris. This is especially important when the drip tubing is damaged and soil particles enter the driplines and can potentially clog the emitters. The flushing of these lines is performed following the repair of the damaged driplines. Drip indicator heads were not observed within the existing drip systems observed. Drip indicator heads provide a clear visible indication of when the drip systems are running and can be utilized by maintenance to confirm when the drip systems are running.
- Water pressure throughout the site appeared to be adequate. Observed pressures ranged from 90 PSI high range to 50 PSI low range. Low pressure was observed at the warehouse area POC on the south side of the project. An irrigation booster pump was observed supplying irrigation to the ballfield areas.
- A few areas did not appear to have functioning irrigation systems. These areas included
 the parking lot on the southwest corner of the site, parking lots # 8 & #9, as well as the
 warehouse on the south side of the campus.

Irrigation Master Plan General Recommendations

- The existing Rain Master DX controllers shall be replaced with Calsense centralized irrigation controller system. Calsense control system is per current College standards.
- Communication options for the Calsense controllers include hard wire ethernet,
 Wi-Fi, cellular and hard wire link. Communication type shall be based on available
 options at each controller location. College preference is Ethernet if available
 and Wi-Fi where available. Ethernet communication requires an MDF room within
 an adjacent building to be within 300 feet of the controller location. Cellular
 communication is the least preferred option due to the monthly cost associated with
 this communication.
- Existing point of connections (POC) shall utilize existing master valves and flow sensors where those exist. The remaining POCs shall have new master valves and flow sensors installed to connect to the new Calsense controllers. This will allow for the ability to monitor water use for each of the controllers.
- Install and maintain the same spray nozzle packages with matched precipitation rates within each zone. This provides the most efficient overhead spray systems with consistent precipitation rates throughout each zone. The higher efficiency will provide greater potential for water savings.
- The current existing irrigation equipment should be utilized as long as it is
 functioning properly. As the existing equipment breaks down it should be replaced
 with equipment consistent with the current College irrigation standard equipment.
 For new construction all irrigation shall match the current College irrigation standard
 equipment. This will provide for consistency throughout the site irrigation systems.
 This will be a benefit for long term irrigation system maintenance.



6—Implementation









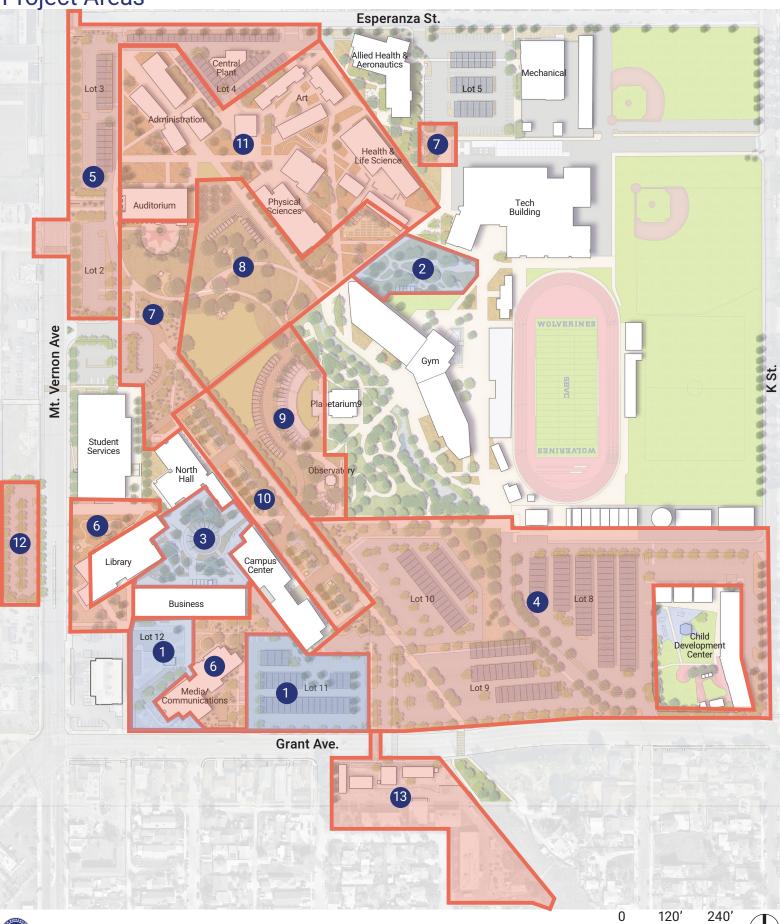
With the understanding that project funding will become available incrementally over time, the Landscape Master Plan is intended to serve as road map for implementation, outlining comprehensive framework ideas for SBVC's campus open space system to ensure that individual projects contribute to the overarching and cohesive vision for the campus as a whole.

The following pages include a summary breakdown of individual projects proposed within the Landscape Master Plan and an accompanying rough order of magnitude Opinion of Probable Cost for each project. Conceptual costs include "high" and "low" options for some planting and hardscape components to provide flexibility. These projects have been numbered sequentially, however this does not necessarily reflect project priorities. Indeed, over the course of time, unforeseen implementation opportunities may present themselves. The project descriptions and conceptual costs are intended to support ongoing decision making about landscape capital expenditures and priorities.

Additionally, while the Landscape Master Plan proposes a clear open space framework with conceptual hardscape and planting components, layouts and even material palettes, these are intended to serve as planning guidelines. These elements and components will be further refined and evolve as design teams are engaged to develop design and construction documents for individual projects. Indeed the flexibility and resiliency of planning frameworks is a measure of a successful master plan.



Project Areas



1 Lot 11 and 12 (Phase 1)

Located adjacent to high use and high-profile entries and buildings, these parking lots are enhanced with native planting for screening and shading. Lot 12 will also receive solar panel shade structures as part of SBVC's sustainability initiative.

2 Bio Garden (Phase 1)

Building on the success of the existing Bio Garden, expanded spaces include more interpretive gardens and an open air pavilion equipped for use as an outdoor lab and classroom.

3 Business Quad (Phase 1)

In the process of design, the reimagined Business Quad includes additional shade and seating areas and locally adapted xeric planting, creating an invitation for relaxation, dining, and collaboration.

4 South and East Frontage and Parking

Define a continuous sense of campus identity on SBVC's east side and south parking lot by implementing a cohesive strategy to address ground plane planting areas. Mitigate heat island effect by shading existing sidewalks with new canopy trees. Provide expanded paving at bus and vehicular drop off and arrival zone with wayfinding signage, bicycle parking facilities, shaded seating.

Define a strong sense of arrival at SBVC's southern end and mitigate heat island effect by shading existing parking with new canopy trees. Provide expanded paving at drop off and arrival zones with wayfinding signage, bicycle parking facilities, shaded seating and information kiosks

Northwest Street Frontages

Define a unified frontage that projects a strong message about SBVC's commitment to sustainable practices and the campus' unique identity. Adopt a xeric approach to understory planting while preserving and supplementing existing mature trees. Celebrate regional identity by using locally sourced cobble mulch and native plant materials.

6 West Street Frontage

Create a window into campus activities that reflects SBVC's identity and values. Create new accessible walkway from Mount Vernon Avenue to southwest corner of the campus. Define arrival points with demonstration gardens featuring groves of locally adapted low-water trees and understory plants; develop garden trails and informal seating areas.

7 Arrival Plaza/Auditorium Event Space

Create a welcoming sense of arrival that reinforces SBVC's unique identity, welcomes and orients visitors, celebrates historic structures and spaces, showcases events and activities and frames views to the campus interior spaces and circulation.

North Open Space/Community Garden

Rethink the campus' iconic central greensward to make a shaded, inviting collection of informal gathering spaces. Celebrate the regional context by framing iconic views through the campus to the mountains beyond as well as using native trees and understory. Create a strong pedestrian link to the east side of the campus.

9 Central Event Plaza

Expand the plaza space adjacent to the exiting Greek Amphitheater to create a high-capacity flexible use space for a variety of campus events and celebrations. Iconic shade structure and large canopy trees frame views and provide cooling shade to plaza and amphitheater seating. Conveniently located next to the mow-able meadow, the space can accommodate a range of equipment configurations from large tents, to stages, tables and portable canopies.

10 Fault Line Promenade

Reinforce the geometry of the existing Fault Line Promenade by creating a series of outdoor amenity spaces that align with and engage this major circulation spine. Further activate the east side of the existing dining and classroom buildings with outdoor classrooms and informal seating areas set among tree allees. Create a dense and lively community gathering space that supports the wide range of campus community activities from academic collaboration, to outdoor dining and informal gatherings.

11 Academic Courtyard Refresh

Refresh existing drought tolerant planting at academic courtyards to facilitate provide new teaching and interpretive garden opportunities, simplify maintenance and create additional seating areas. Create new Entry mini- plaza at Lot 5.

12 West Parking Area

Provide shade to mitigate heat island effect per Cal Green requirements. Provide accessible stalls and curb cuts as required. Provide safe and accessible pedestrian walkways to connect to existing signalized cross-walks.

13 Maintenance Yard

Provide shade to mitigate heat island effect per Cal Green requirements. Provide accessible stalls and curb cuts as required. Provide safe and accessible pedestrian walkways to connect to existing signalized cross-walks.

Phase 1 Project Area - Bio Garden

Building on the success of the existing Bio Garden, expanded spaces include more interpretive gardens and an open air pavilion equipped for use as an outdoor lab and classroom.



SBVC BIOLOGY GARDEN RENOVATION ILLUSTRATIVE PLAN

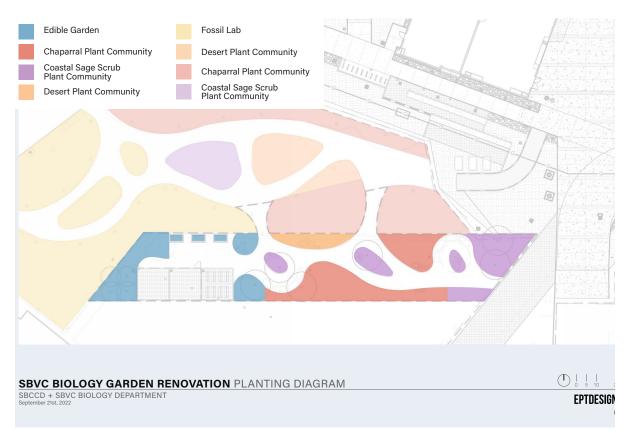
SBCCD + SBVC BIOLOGY DEPARTMENT
July 27th, 2022



EPTDESIGN



Lath House Rendering

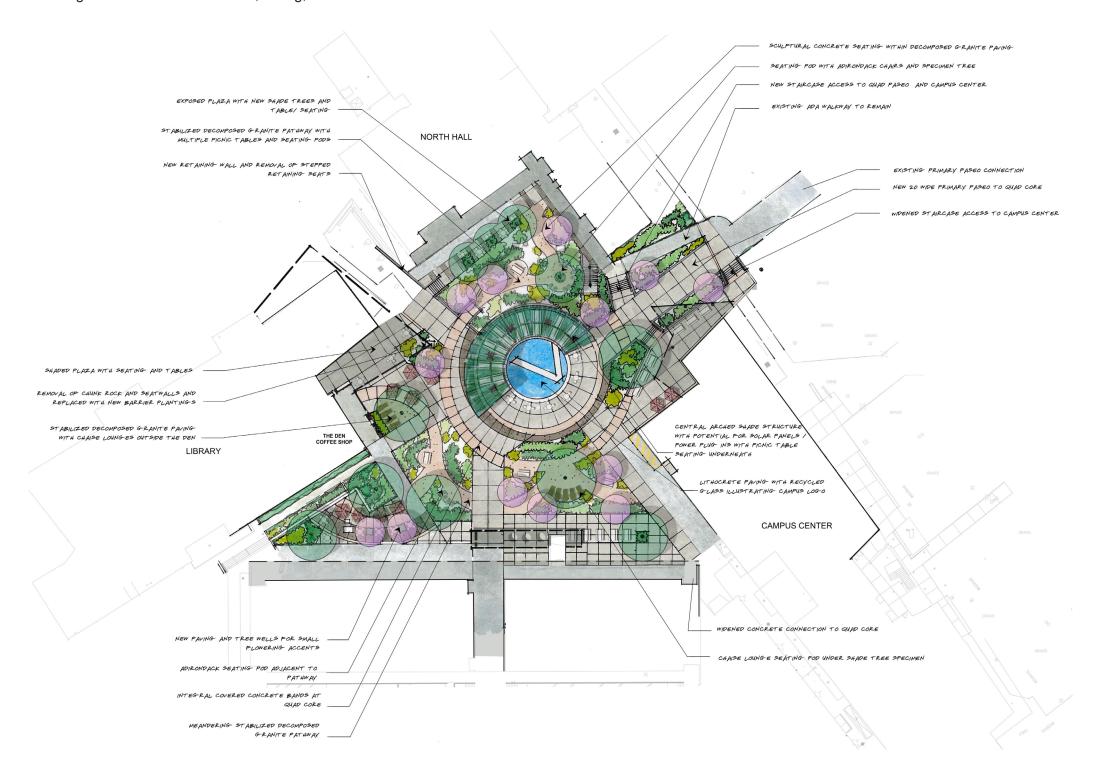


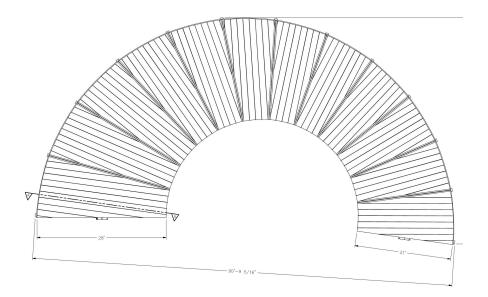
Planting Plan

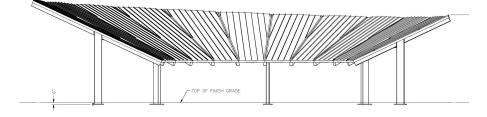


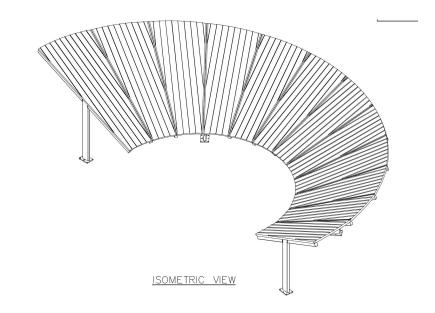
Phase 1 Project Area - Business Quad

In the process of design, the reimagined Business Quad includes additional shade and seating areas and locally adapted xeric planting, creating an invitation for relaxation, dining, and collaboration.









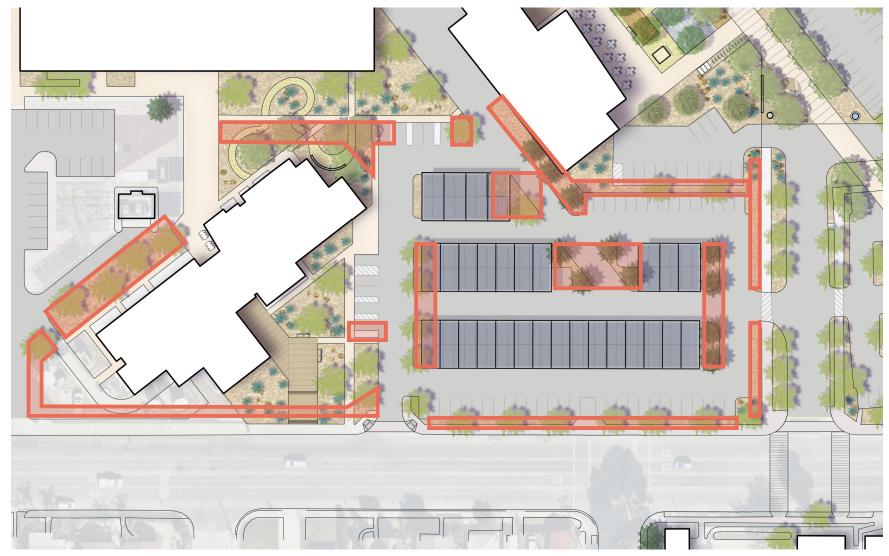
Shade Structure

Site Plan



Phase 1 Project Area - Lot 11, 12

Located adjacent to high use and high-profile entries and buildings, these parking lots are enhanced with native planting for screening and shading. Lot 12 will also receive solar panel shade structures as part of SBVC's sustainability initiative.



Updated Landscape Areas



Site Landscaping



Site Landscaping



7—Acknowledgements



The Landscape Master plan was developed through a series of site visits, interactive surveys, presentations, review meetings and workshops conducted from May through September 2023. The grateful for the active participation from the SBVC community.

SBVC Executive Leadership

Dr. Linda Fontanilla, SBVC Interim President
Tenille Norris, SBVC Interim Vice President
Jose F. Torres, SBCCD Executive Vice Chancellor
John Duong, SBCCD Project Manager
Farrah Farzaneh, SBCCD Director, Facilities Planning, Emergency Management & Construction
Abel Favela, SBCCD Associate Director, Bond Program Planning & Construction
Bob Jenkins, SBCCD Director of Facilities
Yash Patel, SBCCD Sustainability and Energy Manager

Planning Group

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Veronica Brooks, SBVC Alumni
Tatiana Vasquez, SBVC Biology Faculty
Jose Velasco, SBVC Student
Shadow, SBVC Student
Matt Robles, SBVC Geology Faculty

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NAC

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Spurlock Landscape Architects

Ania Armour , Project Manager Leigh Kyle, Principal Rylee Maas, Designer Tori Talbott, Designer Amir Reza, Graphic Support Jing Pan, Graphic Support Corianne Andrews, Graphic Support

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KHA

Gary Lai Patrick Wong

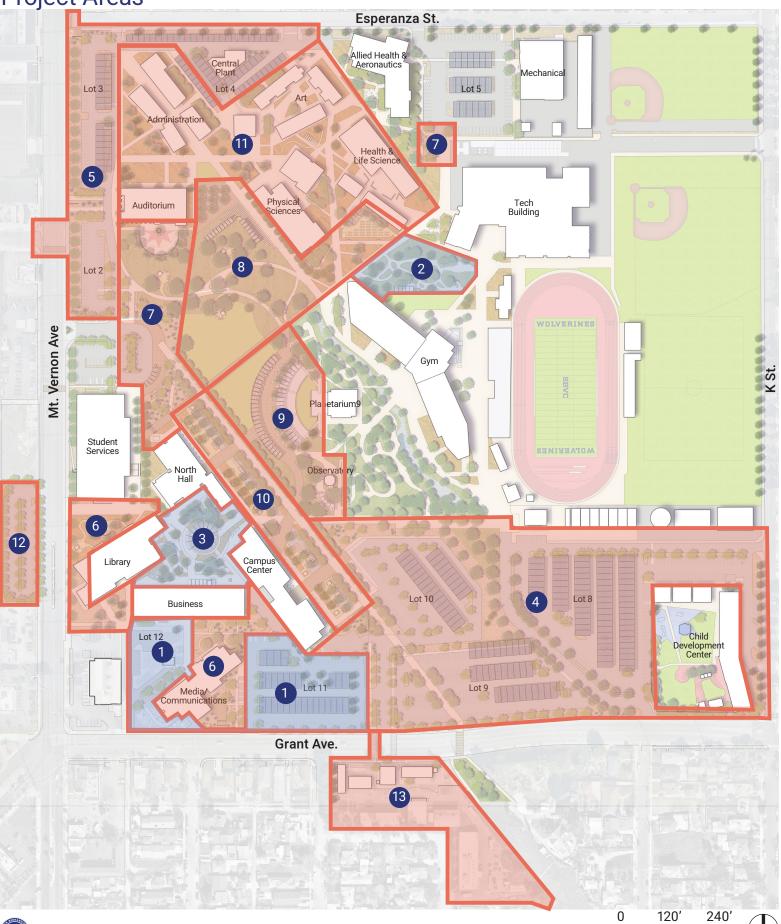
Cummin

Merilyn Olave, Associate Director



8—Appendix

Project Areas



1 Lot 11 and 12 (Phase 1)

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Define a strong sense of arrival at SBVC's southern end and mitigate heat island effect by shading existing parking with new canopy trees. Provide expanded paving at drop off and arrival zones with wayfinding signage, bicycle parking facilities, shaded seating and information kiosks

Estimated Cost: \$2,624,192

Northwest Street Frontages

Define a unified frontage that projects a strong message about SBVC's commitment to sustainable practices and the campus' unique identity. Adopt a xeric approach to understory planting while preserving and supplementing existing mature trees. Celebrate regional identity by using locally sourced cobble mulch and native plant materials.

Estimated Cost: \$1,317,457

6 West Street Frontage

Create a window into campus activities that reflects SBVC's identity and values. Create new accessible walkway from Mount Vernon Avenue to southwest corner of the campus. Define arrival points with demonstration gardens featuring groves of locally adapted low-water trees and understory plants; develop garden trails and informal seating areas.

Estimated Cost: \$1,674,291

7 Arrival Plaza/Auditorium Event Space

Create a welcoming sense of arrival that reinforces SBVC's unique identity, welcomes and orients visitors, celebrates historic structures and spaces, showcases events and activities and frames views to the campus interior spaces and circulation.

Estimated Cost: \$2,561,055

North Open Space/Community Garden

Rethink the campus' iconic central greensward to make a shaded, inviting collection of informal gathering spaces. Celebrate the regional context by framing iconic views through the campus to the mountains beyond as well as using native trees and understory. Create a strong pedestrian link to the east side of the campus.

Estimated Cost: \$3,882,318

9 Central Event Plaza

Expand the plaza space adjacent to the exiting Greek Amphitheater to create a high-capacity flexible use space for a variety of campus events and celebrations. Iconic shade structure and large canopy trees frame views and provide cooling shade to plaza and amphitheater seating. Conveniently located next to the mow-able meadow, the space can accommodate a range of equipment configurations from large tents, to stages, tables and portable canopies.

Estimated Cost: \$4,933,341

10 Fault Line Promenade

Reinforce the geometry of the existing Fault Line Promenade by creating a series of outdoor amenity spaces that align with and engage this major circulation spine. Further activate the east side of the existing dining and classroom buildings with outdoor classrooms and informal seating areas set among tree allees. Create a dense and lively community gathering space that supports the wide range of campus community activities from academic collaboration, to outdoor dining and informal gatherings.

Estimated Cost: \$3,240,465

11 Academic Courtyard Refresh

Refresh existing drought tolerant planting at academic courtyards to facilitate provide new teaching and interpretive garden opportunities, simplify maintenance and create additional seating areas. Create new Entry mini- plaza at Lot 5.

Estimated Cost: \$1,682,999

12 West Parking Area

Provide shade to mitigate heat island effect per Cal Green requirements. Provide accessible stalls and curb cuts as required. Provide safe and accessible pedestrian walkways to connect to existing signalized cross-walks.

Estimated Cost: \$970,876

13 Maintenance Yard

Provide shade to mitigate heat island effect per Cal Green requirements. Provide accessible stalls and curb cuts as required. Provide safe and accessible pedestrian walkways to connect to existing signalized cross-walks.

Estimated Cost: \$141.062

"Such as" Plant List

This is a suggested plant list for the planting areas. All plants shall be low water per WUCOLS, except for bioswale areas. On center spacing shall allow plants to reach their mature size.

Trees				
Botanic Name	Common Name	Use Area	Mature Size	Water Use
Acacia willardiana	Palo Blanco	D	20` H X 15` W	Low
Alnus rhombifolia	White Alder	N, S	50` H X 40` W	Moderate
Brachychiton acerifolius	Flame Tree	W	25`-40` H X 20`-30` W	Low
Ceanothus x 'ray hartman'	Ray Hartman Wild Lilac	N	10`-20` H X 5`-10` W	Low
Cercis occidentalis	Western Redbud	N,W,S	10`-20` H X 10`-15` W	Low
Chilopsis linearis	Desert Willow	D	15`-20` H X 15`-20` W	Low
Geijera parviflora	Australian Willow	W	20`-30` H X 15`-20` W	Low
Heteromeles arbutifolia	Toyon	N	8`-12` H X 6`-8` W	Low
Lagerstroemia indica	Crape Myrtle	W	10`-25` H X 15`-25` W	Low
Olneya tesota	Desert Ironwood	D	20`-30` H X 20`-30` W	Low
Parkinsonia x 'desert museum'	Desert Museum Palo Verde	D	25` H X 25` W	Low
Pinus eldarica	Afghan Pine	W	30`-50` H X 15`-25` W	Low
Platanus racemosa	California Sycamore	N,S	30,-80, H X 30, M	High
Populus fremontii	Fremont Cottonwood	N,S	40`-90` H X 25`-35` W	High
Prosopis glandulosa `maverick` tm	Honey Mesquite	D	25`-35` H X 25`-35` W	Low
Prunus ilicifolia	Hollyleaf Cherry	N	10`-30` H X 10`-25` W	Low
Quercus spp.	Oak	N	40`-60` H X 50`-70` W	Low
Rhus lancea	African Sumac	W	20`-30` H X 20-35` W	Low
Rhus laurina	Laurel Sumac	N	10`-20` H X 10'-20` W	Low
Salix laevigata	Red Willow	N,S	30`-40` H X 30`-40` W	High
Tipuana tipu	Tipuana Tree	W	25`-40` H X 30`-60` W	Low

Shrubs						
Botanic Name	Common Name	Use Area	Mature Size Range	TYP. O.C. Spacing	Paving Offset	Water Use
Acacia redolens 'desert carpet'	Desert Carpet Bank Catclaw	N	2` H X 12` W	8'-0"	5'-0"	Low
Anemopsis californica	Yerba Mansa	S	1` H X 1`-2` W	2'-0"	1'-0"	Moderate
Arctostaphylos cercocarpus	Mountain Mahogany	N	8`-20` H X 10`-12` W	10'-0"	5'-0"	Low
Artemisia californica	California sagebrush	N	4-8`H X 3-5`W	4'-0"	3'-0"	Low
Baccharis pilularis `pigeon point`	Pigeon Pt Dwarf Coyote Brush	N	2` H X 6`-8` W	6'-0"	5'-0"	Low
Calliandra californica	Red Baja Fairy Duster	D	3`-5` H X 5` W	5'-0"	3'-0"	Low
Callistemon citrinus `little john`	Dwarf Bottle Brush	W	3`-5` H X 4`-6` W	4'-0"	3'-0"	Low
Carpenteria californica	Bush Anemone	N	4`-8` H X 4`-8` W	8'-0"	4'-0"	Low
Ceanothus griseus horizontalis `yankee point`	Yankee Point Carmel Creeper	N	2`-3` H X 6`-8` W	6'-0"	5'-0"	Low
Dasylirion wheeleri	Grey Desert Spoon	D	4`-6` H X 3`-4` W	4'-0"	4'-0"	Low
Echinocactus grusonii	Golden Barrel Cactus	D	2` H X 2`-3` W	4'-0"	3'-0"	Low
Encelia californica	California Encelia	N	2`-5` H X 3`-7` W	5'-0"	3'-0"	Low
Epilobium canum	California Fuchsia	S	.5`-1` H X 2`-3` W	3'-0"	1'-6"	Low
Eriogonum fasciculatum	California Buckwheat	N,S	3`-5` H X 3`-5' W	5'-0"	3'-0"	Low
Fremontodendron californicum	California Flannel Bush	N	8`-18` H X 6`-10` W	10'-0"	6'-0"	Low
Hesperaloe parviflora 'desert flamenco'	Desert Flamenco Red Yucca	D	3, H X 3, M	3'-0"	3'-0"	Low
Hesperoyucca whipplei	Chaparral Yucca	D	2`-12` H X 2`-3` W	3'-0"	3'-0"	Low
Iva hayesiana	San Diego Poverty Weed	S	2`-4` H X 6`-9` W	6'-0"	5'-0"	Low
Justicia californica	Chuparosa	D	2`-4` H X 3`-4` W	4'-0"	2'-0"	Low
Lantana camara 'gold mound'	Gold Mound Lantana	W	2`-3` H X 3`-4` W	4'-0"	3'-0"	Low
Leonotis leonurus	Lion's Tail	W	4`-6` H X 4`-6` W	5'-0"	3'-0"	Low
Leucophyllum frutescens	Texas Sage	D	6`-10` H X 6`-10` W	10'-0"	5'-0"	Low
Mukdenia rossii	Mukdenia	W	1`-2` H X 1`-2` W	2'-0"	2'-0"	Moderate
Myrica californica	Pacific Wax Myrtle	N	10`-15` H X 10`-12` W	10'-0"	6'-0"	Low
Opuntia robusta	Silver Dollar Prickly Pear	D	6`-10` H X 8`-10` W	10'-0"	10'-0"	Low
Peritoma arborea	Bladderpod	D	1`-6` H X 6` W	6'-0"	4'-0"	Low



Shrubs						
Botanic Name	Common Name	Use Area	Mature Size	O.C. Spacing	Paving Offset	Water Use
Pittosporum tobira 'variegata'	Variegated Japanese Pittosporum	W	4`-5` H X 4`-5` W	5'-0"	3'-0"	Low
Rhamnus crocea	Redberry	N	3`-6` H X 3`-6` W	5'-0"	3'-0"	Low
Rhus integrifolia	Lemonade Berry	N	6`-10` H X 10`-15` W	12'-0"	10'-0"	Low
Ribes speciosum	Fuchsia Flowering Gooseberry	N	6`-10` H X 3`-8` W	6'-0"	4'-0"	Low
Ribes viburnifolium	Evergreen Currant	S	3`-4` H X 4`-6` W	5'-0"	3'-0"	Low
Santolina chamaecyparissus	Lavender Cotton	W	1`-2` H X 3`-4` W	4'-0"	2'-0"	Low
Tecoma stans	Yellow Bells	W	10`-20` H X 10`-20` W	15'-0"	10'-0"	Low
Tecoma x 'sunrise'	Sunrise Yellow Bells	D	e,-8, H X e,-8, M	8'-0"	4'-0"	Low
Teucrium x lucidrys	Hedge Germander	D	1` H X 1`-2` W	2'-0"	2'-0"	Low
Verbena lilacina `de la mina`	Lilac Verbena	W	1`-2` H X 3`-4` W	4'-0"	2'-0"	Low
Westringia fruticosa	Coast Rosemary	W	4`-6` H X 6`-12` W	9'-0"	4'-6"	Low

Grasses and Perennials						
Botanic Name	Common Name	Use Area	Mature Size	O.C. Spacing	Paving Offset	Water Use
Achillea millefolium	Common Yarrow	N	1`-3` H X 1`-2` W	1'-6"	1'-6"	Low
Achillea x 'moonshine'	Moonshine Yarrow	N	1`-2` H X 1` W	1'-0"	1'-6"	Low
Asclepias eriocarpa	Indian Milkweed	N	1`-2` H X 1` W	1'-0"	1'-6"	Low
Baileya multiradiata	Desert Marigold	D	1` H X 1` W	1'-0"	1'-0"	Low
Carex divulsa	European Grey Sedge	S	1`-2` H X 1`-2` W	2'-0"	1'-0"	Low
Chondropetalum tectorum	Small Cape Rush	S	2`-3` H X 3`-4` W	4'-0"	4'-0"	Moderate
Corethrogyne filaginifolia	Califonia Aster	N	1`-3` H X 3`-5` W	4'-0"	2'-0"	Low
Dalea capitata	Dalea	D	1` H X 3` W	3'-0"	2'-0"	Low
Elymus condensatus	Giant Wild Rye	S	3`-6` H X 2`-8` W	6'-0"	6'-0"	Low
Eriophyllum confertiflorum	Golden Yarrow	N	1`-2` H X 2`-3` W	3'-0"	1'-6"	Low
Festuca californica	California Fescue	N	1`-4` H X 2`-3` W	3'-0"	1'-6"	Low
Leymus condensatus 'canyon prince'	Canyon Prince Giant Wild Rye	N,S	2`-3` H X 2-3` W	3'-0"	3'-0"	Low
Mimulus aurantiacus	Sticky Monkeyflower	N	4`-5` H X 4`-5` W	5'-0"	3'-0"	Low
Muhlenbergia rigens	Deer Grass	N,S	3`-5` H X 3`-5` W	4'-0"	4'-0"	Low
Penstemon heterophyllus	Foothill Penstemon	D	3`-5` H X 5` W	5'-0"	3'-0"	Low
Penstemon spectabilis	Showy Penstemon	N	2`-4` H X 3`-4` W	4'-0"	2'-0"	Low
Salvia apiana	White Sage	N	3`-5` H X 3`-8` W	7'-0"	4'-0"	Low
Salvia clevelandii	Cleveland Sage	N	3`-5` H X 8` W	8'-0"	4'-0"	Low
Salvia mellifera	Black Sage	N	3`-6` H X 3`-10` W	8'-0"	3'-0"	Low

N: Native Planting D: Desert Planting W: Waterwise Planting S: Stormwater Planting

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Credits

SBVC Landscape Masterplan

Concept Design Statement of Pro

Concept Design Statement of Probable Cost February 6, 2024



The information contained within this documents is confidential and should not be distributed or copied for any reason without the consent of either Cumming Construction Management, Inc. or the intended client.

Cumming has no control over the cost of labor and materials, the general contractor's or any subcontractor's method of determining prices, or competitive bidding and market conditions.

This opinion of the probable cost of construction is made on the basis of the experience, qualifications, and best judgment of a professional consultant familiar with the construction industry. However, Cumming cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from this or subsequent cost estimates.

This document reflects fair market value construction costs obtainable in a competitive bidding market in San Bernardino, California. Cumming assumes a minimum of three (3) competitive bids from qualified general contractors, with bids from a minimum of three (3) subcontractors per trade. This statement is a determination of fair market value for the construction of the project and is not intended to be a prediction of low bid. Please note that experience indicates a fewer number of bidders may result in a higher bid amount, thus more bidders may result in a lower bid result.

The Cumming staff of professional cost consultants has prepared this estimate in accordance with generally accepted principles and practices. This staff is available to discuss its contents with any interested party.



LA | Cumming Management Group, Inc.

Merilyn Olave

Associate Director Los Angeles, CA

molave@cumming-group.com

Executive Summary

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Project Description

The project is a master plan for the San Bernardino Valley College campus. The scope includes new pavement, landscaping, additional lighting, signage, site furniture, shade structures, seating, new shade trees.

Project Control Metrics

Construction Start: February 1, 2025
Construction Completion: July 31, 2026
Construction Duration: 18 Months
Delivery Method: Design-Bid-Build

Scope of Work		Finish Site Area	\$ / SF	Total Cost
New Construct	ion			
Area 1	Parking Lot & Maintenance Yard (Already Designed /Constructed)			NIC
Area 2	Biology Garden Expansion (Already Designed /Constructed)			NIC
Area 3	Business Courtyard Expansion (Already Designed /Constructed)			NIC
Area 4	Southwest Arrival, South and East Street Frontage and South Parking Lots	96,214 SF	\$27	\$2,624,192
Area 5	Northwest Street Frontages	49,780 SF	\$26	\$1,317,457
Area 6	West Street Frontage and Radio Station	49,462 SF	\$34	\$1,674,291
Area 7	Arrival Plaza/Auditorium Event Space/Lot 5 Mini-plaza	56,646 SF	\$45	\$2,561,055
Area 8	North Open Space/Community Garden	114,073 SF	\$34	\$3,882,318
Area 9	Central Event Plaza	53,585 SF	\$92	\$4,933,341
Area 10	Fault Line Promenade	58,568 SF	\$55	\$3,240,465
Area 11	Academic Courtyard Refresh	53,354 SF	\$32	\$1,682,999
Area 12	West Parking Lot	34,130 SF	\$28	\$970,876
Area 13	Maintenance Yard	5,770 SF	\$24	\$141,062
Area 14	Greenbelt Connection to Student Housing			NIC
Total Construct	tion Costs	571,582 SF	\$40	\$23,028,056
Premium fo	r Phasing (Award at Different Times)	10%		\$2,302,806
Total Construct	tion Costs w/ Phasing	571,582 SF	\$44	\$25,330,861
Signage Pac	kage			\$2,375,939
Total Construct	tion Costs w/ Signage			\$27,706,800

Note:

Irrigation - Excluded
PV Panels - Excluded
Market Escalation to Start Date (February 2025) - Included
Construction Contingency - Excluded
Soft Costs - Excluded

Construction Cost Summary

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Element		Area	4	Area	5	Area	6	Area	7	Area 8	3	Area 9	9	Area 10	Area	11	Area 1	12	Area 13	Total Cost
		96,214 SF		49,780 SF		49,462 SF		56,646 SF		114,073 SF		53,585 SF		58,568 SF	53,354 SF	=	34,130 SF		5,770 SF	571,582 SF
		Total	\$/SF	Total \$/S	F Tota	I \$/SF	Total	\$/SF	Total \$/SF											
E) Site Work (16-18)		\$1.749.523	\$18.18	\$878.335	\$17.64	\$1.116.233	\$22.57	\$1,707,430	\$30.14	\$2.588.303	\$22.69	\$3.289.010	\$61.38	\$2.160.386 \$36.	89 \$1.122.039	\$21.03	\$647.274	\$18.96	\$94.045 \$16.30	\$15.352.577 \$26.86
16 Site Preparation and Demolition		\$322,317	\$3.35	\$166,763	\$3.35	\$168,350	\$3.40	\$212,447	\$3.75	\$382,145	\$3.35	\$184,730	\$3.45	\$170,231 \$2.5	. , ,		\$92,151	\$2.70	\$21,462 \$3.72	
17 Site Paving, Structures & Landscaping			\$13.42	\$621,792	\$12.49	\$849,922	\$17.18	\$1,287,437	\$22.73	\$2,052,986	\$18.00	\$2,891,145	\$53.95	\$1,637,339 \$27.	6 \$851,149	\$15.95	\$520,993		\$72,583 \$12.58	\$12,076,337 \$21.13
18 Utilities on Site		\$136,214	\$1.42	\$89,780	\$1.80	\$97,962	\$1.98	\$207,546	\$3.66	\$153,173	\$1.34	\$213,135	\$3.98	\$352,816 \$6.0	92,154	\$1.73	\$34,130	\$1.00	\$0 \$0.00	\$1,376,910 \$2.41
Sub-Total Direct Construction Cost		\$1,749,523	\$18.18	\$878,335	\$17.64	\$1,116,233	\$22.57	\$1,707,430	\$30.14	\$2,588,303	\$22.69	\$3,289,010	\$61.38	\$2,160,386 \$36.	39 \$1,122,039	\$21.03	\$647,274	\$18.96	\$94,045 \$16.30	\$15,352,577 \$26.86
Design/Cost Contingency	18.00%	\$314,914	\$3.27	\$158,100	\$3.18	\$200,922	\$4.06	\$307,337	\$5.43	\$465,895	\$4.08	\$592,022	\$11.05	\$388,869 \$6.0	\$201,967	7 \$3.79	\$116,509	\$3.41	\$16,928 \$2.93	\$2,763,464 \$4.83
Market Escalation to Buyout	7.05%	\$145,606	\$1.51	\$73,101	\$1.47	\$92,900	\$1.88	\$142,103	\$2.51	\$215,415	\$1.89	\$273,732	\$5.11	\$179,801 \$3.0	93,383	\$1.75	\$53,870	\$1.58	\$7,827 \$1.36	\$1,277,737 \$2.24
Total Direct Construction Cost		\$2,210,043	\$22.97	\$1,109,536	\$22.29	\$1,410,055	\$28.51	\$2,156,870	\$38.08	\$3,269,612	\$28.66	\$4,154,763	\$77.54	\$2,729,056 \$46.	50 \$1,417,389	\$26.57	\$817,653	\$23.96	\$118,800 \$20.59	\$19,393,778 \$33.93
General Conditions	7.50%	\$165,753	\$1.72	\$83,215	\$1.67	\$105,754	\$2.14	\$161,765	\$2.86	\$245,221	\$2.15	\$311,607	\$5.82	\$204,679 \$3.4	19 \$106,304	\$1.99	\$61,324	\$1.80	\$8,910 \$1.54	\$1,454,533 \$2.54
General Requirements	4.00%	\$88,402	\$0.92	\$44,381	\$0.89	\$56,402	\$1.14	\$86,275	\$1.52	\$130,784	\$1.15	\$166,191	\$3.10	\$109,162 \$1.5	\$56,696	\$1.06	\$32,706	\$0.96	\$4,752 \$0.82	\$775,751 \$1.36
Bonds	1.00%	\$22,100	\$0.23	\$11,095	\$0.22	\$14,101	\$0.29	\$21,569	\$0.38	\$32,696	\$0.29	\$41,548	\$0.78	\$27,291 \$0.4	17 \$14,174	\$0.27	\$8,177	\$0.24	\$1,188 \$0.21	\$193,938 \$0.34
General Liability Insurance	1.50%	\$36,963	\$0.38	\$18,557	\$0.37	\$23,583	\$0.48	\$36,074	\$0.64	\$54,684	\$0.48	\$69,488	\$1.30	\$45,643 \$0.	78 \$23,706	\$0.44	\$13,675	\$0.40	\$1,987 \$0.34	\$324,361 \$0.57
Overhead & Profit	4.00%	\$100,930	\$1.05	\$50,671	\$1.02	\$64,396	\$1.30	\$98,502	\$1.74	\$149,320	\$1.31	\$189,744	\$3.54	\$124,633 \$2.	13 \$64,731	l \$1.21	\$37,341	\$1.09	\$5,425 \$0.94	\$885,694 \$1.55
Sub-Total Indirect Construction Cost		\$414,149	\$4.30	\$207,920	\$4.18	\$264,236	\$5.34	\$404,185	\$7.14	\$612,706	\$5.37	\$778,578	\$14.53	\$511,409 \$8.	/3 \$265,610	\$4.98	\$153,223	\$4.49	\$22,262 \$3.86	\$3,634,278 \$6.36

Deductive Alternates

Total Construction Cost

Area 4

Hydroseed in lieu of Slope planting at Perimeter

Slope & Entry Drive (\$467,789)

Area 7

Hydroseed in lieu of planting

Auditorium Event Plaza - Mounted Benches in lieu of CIP Seatwalls

Area 8

Hydroseed in lieu of Meadow Planting (\$122,837) Remove Planters, Shade Structure & Storage Shed

(\$638,903)

(\$231,908)

(\$46,123)

Area 9

Event Plaza - Mounted Benches in lieu of CIP Seatwalls (\$57,373) Shade Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal (\$938,217)

Power for AV + projection screen at Stage

\$149,995

\$2,624,192 \$27.27 \$1,317,457 \$26.47 \$1,674,291 \$33.85 \$2,561,055 \$45.21 \$3,882,318 \$34.03 \$4,933,341 \$92.07 \$3,240,465 \$55.33 \$1,682,999 \$31.54 \$970,876 \$28.45 \$141,062 \$24.45 \$23,028,056 \$40.29

Hydroseed in lieu of Meadow Planting

(\$78,303)

(\$82,107)

Area 10

Shade Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal

Construction Cost Detail

SBVC Landscape Masterplan

Concept Design February 6, 2024



Area 4
Southwest Arrival, South and East Street Frontage and South Parking Lots

Construction Cost Detail - Area 4

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Code Quantity Unit Unit Rate

F) Site Work (16-18)

16 Site Preparation and Demolition

Sub-Total: 16 Site Preparation and Demolition	96,214	SF
rosion control	96,214	SF
General site grading	96,214	SF
ite grading		
Remove (E) landscaping - turf, planting	96,214	SF
elective demolition		Ì

\$2.00	\$192,428
\$1.00	\$96,214
\$0.35	\$33,675
\$3.35	\$322,317
\$0.35	\$33,675

17 Site Paving, Structures & Landscaping

384	SF	\$33.00	\$12,672
57,470	SF	\$2.00	\$114,940
26	EA	\$4,185.00	\$108,810
40	EA	\$2,375.00	\$95,000
18	EA	\$300.00	\$5,400
1,800	SF	\$15.00	\$27,000
12,165	SF	\$8.00	\$97,320
12,165	SF	\$9.50	\$115,568
24,395	SF	\$8.00	\$195,160
45,305	SF	\$9.50	\$430,398
36	EA	\$856.25	\$30,825
			NIC
32	LF	\$375.00	\$12,000
			Seprate Package
	57,470 26 40 18 1,800 12,165 12,165 24,395 45,305 36	57,470 SF 26 EA 40 EA 18 EA 1,800 SF 12,165 SF 12,165 SF 24,395 SF 45,305 SF 36 EA	57,470 SF \$2.00 26 EA \$4,185.00 40 EA \$2,375.00 18 EA \$300.00 1,800 SF \$15.00 12,165 SF \$8.00 12,165 SF \$9.50 24,395 SF \$9.50 36 EA \$856.25

Construction Cost Detail - Area 4

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



	Quantity	Unit	Unit Rate	Total Cost
Site furnishing				
Benches, freestanding with wood seat/back, high quality	6	EA	\$3,000.00	\$18,0
Bike Locker	3	EA	\$5,000.00	\$15,0
Bike racks	8	EA	\$450.00	\$3,60
Trash receptacle	4	EA	\$1,200.00	\$4,8
Miscellaneous				
Concrete pad for benches, 10' x 3'	6	EA	\$750.00	\$4,5
Cub Tatal: 17 Cita Daving Churchungs C. Landaguring	06.244			
Sub-Total: 17 Site Paving, Structures & Landscaping	96,214	SF	\$13.42	\$1,290,9
Jtilities on Site Elecrtical	96,214	SF	\$13.42	\$1,290,9
Jtilities on Site	96,214	EA	\$13.42	
Utilities on Site Elecrtical				\$ 1,290,9 \$40,0
Elecrtical EV Charging station - complete				\$40,0
Elecrtical EV Charging station - complete Lighting	4	EA	\$10,000.00	

Alternate:

Hydroseed in lieu of Slope planting at Perimeter Slope & Entry Drive

Landscaping				
Hydroseed	36,264	SF	\$0.90	\$32,638
Planting (65% area) - (5 gal@ 36" o.c.)	(36,264)	SF	\$9.50	(\$344,508)
Design/Cost Contingency	18.00	%	(\$311,870.40)	(\$56,137)
Market Escalation to Buyout	7.05	%	(\$368,007.07)	(\$25,956)
GC Mark-ups	18.74	%	(\$393,962.87)	(\$73,826)

Sub-Total: Hydroseed in lieu of Slope planting at Perimeter Slope & Entry Drive 36,264 SF (\$12.90) (\$467,789)

Construction Cost Detail

SBVC Landscape Masterplan

Concept Design February 6, 2024



Area 5 Northwest Street Frontages

Construction Cost Detail - Area 5

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Code

F) Site Work (16-18)

16 Site Preparation and Demolition

Selective demolition			
Remove (E) landscaping - turf, planting	49,	780	SF
Site grading			
General site grading	49,	780	SF
Erosion control	49,	780	SF
Sub-Tota	l: 16 Site Preparation and Demolition 49,	780	SF

\$166,763
\$17,423
\$49,780
\$99,560

17 Site Paving, Structures & Landscaping

Paving				
Integral colored CIP concrete in two or more agggregate finishes or combination				
with unit pavers	674	SF	\$33.00	\$22,242
Granite Creet at bike parking area	1,000	SF	\$15.00	\$15,000
New crosswalk at Esperanza St.	440	SF	\$16.00	\$7,040
Landscaping				
Topsoil, fertilizer and grading	17,187	SF	\$2.00	\$34,374
Trees, 48" box	7	EA	\$4,185.00	\$29,295
Trees, 36" box	7	EA	\$2,375.00	\$16,625
Shrubs, 24" box	6	EA	\$300.00	\$1,800
Convert turf to drought tolerant/natives/desert ground cover (37,346 SF)				
Cobble (65% area); rock mulch	24,275	SF	\$8.00	\$194,199
Planting (35% area) - (5 gal@ 36" o.c.)	13,071	SF	\$9.50	\$124,175
Replace existing landscaping with new (11,760 SF)				
Cobble (65% area); rock mulch	7,644	SF	\$8.00	\$61,152
Planting (35% area) - (5 gal@ 36" o.c.)	4,116	SF	\$9.50	\$39,102
Boulders, 36" - 60"	62	EA	\$856.25	\$53,088
Irrigation				NIC
Signage				Seprate Package
Site furnishing				
Bike Locker	3	EA	\$5,000.00	\$15,000
Bike racks	14	EA	\$450.00	\$6,300
Trash receptacle	2	EA	\$1,200.00	\$2,400
Sub-Total: 17 Site Paving, Structures & Landscaping	49,780	SF	\$12.4 9	\$621,792

Construction Cost Detail - Area 5

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Code		Quantity	Unit	Unit Rate	Total Cost
18 Utilities on Site					
Elecrtical					
EV Charging station - complete		4	EA	\$10,000.00	\$40,000
Lighting					
Additional site lighting - 20% of area		9,956	SF	\$5.00	\$49,780
	Sub-Total: 18 Utilities on Site	49,780	SF	\$1.80	\$89,780
Total - F) Site Work (16-18)		49,780	SF	\$17.64	\$878,335

SBVC Landscape Masterplan

Concept Design February 6, 2024



Area 6 West Street Frontage and Radio Station

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Code Quantity Unit Unit Rate Total Cost

A) Shell (1-5)

F) Site Work (16-18)

16 Site Preparation and Demolition

Site grading				
General site grading	49,462	SF	\$1.00	\$49,462
Erosion control	49,462	SF	\$0.35	\$17,312

17 Site Paving, Structures & Landscaping

Paving				
Integral colored CIP concrete with light sand finish	3,597	SF	\$25.00	\$89,925
Granitecrete cementitious stabilized aggregate paving	3,597	SF	\$15.00	\$53,955
Landscaping				
Topsoil, fertilizer and grading	17,159	SF	\$2.00	\$34,319
New trees, 48" box	4	EA	\$4,185.00	\$16,740
New trees, 36" box	5	EA	\$2,375.00	\$11,875
Shrubs, 24" box	12	EA	\$300.00	\$3,600
Convert turf to drought tolerant/natives/desert ground cover (26,498 SF)				
Cobble (65% area); rock mulch	17,224	SF	\$8.00	\$137,790
Planting (35% area) - (5 gal@ 36"o.c.)	9,274	SF	\$9.50	\$88,106
Replace existing landscaping with new (15,770 SF)				
Cobble (50% area); rock mulch	7,885	SF	\$8.00	\$63,080
Planting (50% area) - (5 gal@ 36"o.c.)	7,885	SF	\$9.50	\$74,908
Boulders, 36" - 60"	44	EA	\$856.25	\$37,675
Irrigation				NIC
Structure				
CIP concrete seatwalls	68	LF	\$300.00	\$20,400
CIP concrete stairs	2,527	SF	\$50.00	\$126,350
Stainless steel handrails at stairs	236	LF	\$200.00	\$47,200
Site furnishing				
Benches, freestanding with wood seat/back, high quality	4	EA	\$3,000.00	\$12,000
Café tables with 4 chairs and umbrella	5	EA	\$3,400.00	\$17,000
Collaboration table with 6 chairs	3	EA	\$4,000.00	\$12,000

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



de	Quantity	Unit	Unit Rate	Total Cost
Miscellaneous				
Concrete pad for benches, 10' x 3'	4	EA	\$750.00	\$3,000
Sub-Total: 17 Site Paving, Structures & Landscaping	49,462	SF	\$17.18	\$849,922
B Utilities on Site				
Eectrical				
Power pedestal for each seating area	10	EA	\$4,850.00	\$48,50
Additional pedestrian lighting - allowance	9,892	SF	\$5.00	\$49,46
Pedestrian pole lighting, 15' H				NI
Sub-Total: 18 Utilities on Site	49,462	SF	\$1.98	\$97,96
			\$22.57	

SBVC Landscape Masterplan

Concept Design February 6, 2024



Area 7 Arrival Plaza/Auditorium Event Space/Lot 5 Mini-plaza

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Code Quantity Unit Unit Rate Total Cost

F) Site Work (16-18)

16 Site Preparation and Demolition

Selective demolition	
Remove (E) paving	
Remove (E) landscaping - turf, planting	
Site grading	
General site grading	
Erosion control	

7,093	SF
49,553	SF
56,646	SF
56,646	SF
56,646	SF

\$4.00	\$28,372
\$2.00	\$99,106
\$1.00	\$56,646
\$0.50	\$28,323
\$3.75	\$212,447

Sub-Total: 16 Site Preparation and Demolition

17 Site Paving, Structures & Landscaping

Paving	
Integral colored CIP concrete in two or more agggregate finishes or combination	
with unit pavers	7,6
Granite Creet at bike parking and outdoor seating area	2,2
Landscaping	
Topsoil, fertilizer and grading	27,7
New trees (32 EA)	
Trees, 72" box (20%)	
Trees, 48" box (40%)	
Trees, 36" box (40%)	
Shrubs, 24" box	
New planting	2,7
Convert turf to drought tolerant/natives/desert ground cover (35,956 SF)	
Cobble (50% area); rock mulch	17,9
Planting (50% area) - (5 gal@ 36"o.c.)	17,9
Replace existing landscaping with new (10,862 SF)	
Cobble (35% area); rock mulch	3,8
Planting (65% area) - (5 gal@ 36"o.c.)	7,0
Boulders, 36" - 60"	
Irrigation	
Structure	
Shade structure, custom painted steel with perforated metals	9

7,649	SF	\$33.00	\$252,417
2,179	SF	\$15.00	\$32,685
27,744	SF	\$2.00	\$55,489
6	EA	\$7,500.00	\$45,000
10	EA	\$4,185.00	\$41,850
10	EA	\$2,375.00	\$23,750
30	EA	\$300.00	\$9,000
2,706	SF	\$15.00	\$40,590
17,978	SF	\$8.00	\$143,824
17,978	SF	\$9.50	\$170,791
3,802	SF	\$8.00	\$30,414
7,060	SF	\$9.50	\$67,073
36	EA	\$856.25	\$30,825
			NIC
997	SF	\$140.00	\$139,580

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



	Quantity	Unit	Unit Rate	Total Cost
Event plaza				
Patch and repair adjacent pavement for expanded event plaza	1	LS	\$10,000.00	\$10,0
Concrete seating, integral CIP with precast copings	188	LF	\$375.00	\$70,
Signage				Seprate Packag
Site furnishing				
Benches, freestanding with wood seat/back, high quality	10	EA	\$3,000.00	\$30,
Collaboration tables, solar powered, 12' x 10'	1	EA	\$12,700.00	\$12,
Lounge seating	8	EA	\$3,200.00	\$25,
Bike Locker	6	EA	\$5,000.00	\$30,
Bike racks	29	EA	\$450.00	\$13,
Trash receptacle	4	EA	\$1,200.00	\$4,
Miscellaneous				
Concrete pad for benches, 10' x 3'	10	EA	\$750.00	\$7,
Sub-Total: 17 Site Paving, Structures & Landscaping	56,646	SF	\$22.73	\$1,287,
runties on Site				
Electrical				
Power supply for special event audio-visual equipment	1	LS	\$15,000.00	\$15,
Relocate light poles	6	EA	\$2,650.00	\$15,
EV Charging station	12	EA	\$10,000.00	\$120,
Lighting				
	11,329	SF	\$5.00	\$56,
Additional site lighting - 20% of area	1			4000
Additional site lighting - 20% of area Sub-Total: 18 Utilities on Site	56,646	SF	\$3.66	\$207,

Alternate:

Hydroseed in lieu of planting

Landscaping
Hydroseed
Planting (65% area) - (5 gal@ 36" o.c.)
Design/Cost Contingency
Market Escalation to Buyout
GC Mark-ups

17,978	SF	
(17,978)	SF	
18.00	%	
7.05	%	
18.74	%	

\$0.90	\$16,180
\$9.50	(\$170,791)
(\$154,610.80)	(\$27,830)
(\$182,440.74)	(\$12,868)
(\$195,308.42)	(\$36,600)

Sub-Total: Hydroseed in lieu of planting

17,978 SF

(\$12.90) (\$231,908)

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Code Quantity Unit Unit Rate Total Cost

Auditorium Event Plaza - Mounted Benches in lieu of CIP Seatwalls

Structures
Benches, freestanding with wood seat/back, high quality
Concrete seating, integral CIP with precast copings
Design/Cost Contingency
Market Escalation to Buyout
GC Mark-ups

6	EA
(130)	SF
18.00	%
7.05	%
18.74	%

\$3,000.00	\$18,000
\$375.00	(\$48,750)
(\$30,750.00)	(\$5,535)
(\$36,285.00)	(\$2,559)
(\$38,844.21)	(\$7,279)

Sub-Total: Auditorium Event Plaza - Mounted Benches in lieu of CIP Seatwalls

6 SF

(\$7,687.23) (\$46,123)

SBVC Landscape Masterplan

Concept Design February 6, 2024



Area 8 North Open Space/Community Garden

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Code Quantity Unit Unit Rate Total Cost

F) Site Work (16-18)

16 Site Preparation and Demolition

Selective demolition				
Remove (E) landscaping - turf, planting	114,073	SF	\$2.00	\$228,146
Site grading				
General site grading	114,073	SF	\$1.00	\$114,073
Erosion control	114,073	SF	\$0.35	\$39,926
Sub-Total: 16 Site Preparation and Demolition	114,073	SF	\$3.35	\$382,145

17 Site Paving, Structures & Landscaping

Paving				
Integral color CIP concrete with retarder finish/light sand finish	7,785	SF	\$26.00	\$202,410
Granite Creet at community garden and outdoor seating area, amphitheater				
seating	10,963	SF	\$15.00	\$164,445
Granicrete	864	SF	\$15.00	\$12,960
Landscaping				
Topsoil, fertilizer and grading	94,461	SF	\$2.00	\$188,922
New trees (24 EA)				
Trees, 72" box (20%)	5	EA	\$7,500.00	\$37,500
Trees, 48" box (40%)	10	EA	\$4,185.00	\$41,850
Trees, 36" box (40%)	9	EA	\$2,375.00	\$21,375
Convert turf to Meadow (29,248 SF)				
Native meadow seed mix (75%)	21,936	SF	\$2.50	\$54,840
Planting (25% area) - (5 gal @ 36" o.c.)	7,312	SF	\$9.50	\$69,464
Convert turf to drought tolerant/natives/desert ground cover (65,213 SF)				
Native meadow sod	29,248	SF	\$4.00	\$116,992
Planting - (5 gal @ 36" o.c.)	35,965	SF	\$9.50	\$341,668
Irrigation				NIC
Structure				
Shade structure, custom painted steel with perforated metals	3,275	SF	\$140.00	\$458,500
Raised Garden beds of recycled plastic lumber, 4' x 8' x 1'	27	EA	\$1,440.00	\$38,880
Trellis, pressure treated and stained timber, 10'x20'	200	SF	\$150.00	\$30,000
Storage shed, semi-custom	100	SF	\$150.00	\$15,000
Fence				
Perimeter woven wire fence with gate, 4' high (community garden)	557	LF	\$40.00	\$22,280
Signage				Seprate Package

SBVC Landscape Masterplan

Market Escalation to Buyout

GC Mark-ups

Concept Design Statement of Probable Cost February 6, 2024



	Quantity	Unit	Unit Rate	Total Cost
Site furnishing				
Benches, freestanding with wood seat/back, high quality	30	EA	\$3,000.00	\$90,00
Café tables with 4 chairs and umbrella	14	EA	\$3,400.00	\$47,60
Collaboration table with 6 chairs	4	EA	\$4,000.00	\$16,00
Collaboration tables, solar powered, 12' x 10'	2	EA	\$12,700.00	\$25,40
Lounge- Recycled plastic lumber lounge chairs, permanent mount	10	EA	\$3,200.00	\$32,00
Compost bins	2	EA	\$1,200.00	\$2,40
Miscellaneous			·	-
Concrete pad for benches, 10' x 3'	30	EA	\$750.00	\$22,5
Sub-Total: 17 Site Paving, Structures & Landscaping	114,073	SF	\$18.00	\$2,052,9
Utilities on Site				
Electrical	_		4	4
Power pedestal	6	EA	\$4,850.00	\$29,1
Enhance power supply for special event audio visual equipment - plaza	1	LS	\$10,000.00	\$10,0
Pedestrian pole path lighting, 15' high @ 50' o.c Existing	20.015	C.F.	4- 00	N
Additional site lighting - 20% of area	22,815	SF	\$5.00	\$114,0
Sub-Total: 18 Utilities on Site	114,073	SF	\$1.34	\$153,1
tal - F) Site Work (16-18)	114,073	SF	\$22.69	\$2,588,30
ornato:				
ernate: Iroseed in lieu of Meadow Planting				
roseed in lieu of Meadow Planting	51,184	SF	\$0.90	\$46,0
Landscaping	51,184 (51,184)	SF SF	\$0.90 \$2.50	
Landscaping Hydroseed	-			
Landscaping Hydroseed Meadow planting Meadow planting	-		\$2.50	(\$127,9
Landscaping Hydroseed	(51,184)	SF		(\$127,9 (\$14,7
Landscaping Hydroseed Meadow planting Design/Cost Contingency Market Escalation to Buyout	18.00	SF %	\$2.50	(\$127,9 (\$14,7 (\$6,8
Landscaping Hydroseed Meadow planting Design/Cost Contingency	(51,184) 18.00 7.05	SF % %	\$2.50 (\$81,894.40) (\$96,635.39)	(\$127,9 (\$14,7 (\$6,8 (\$19,3
Landscaping Hydroseed Meadow planting Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Hydroseed in lieu of Meadow Planting move Planters, Shade Structure & Storage Shed	(51,184) 18.00 7.05 18.74	% % %	\$2.50 (\$81,894.40) (\$96,635.39) (\$103,451.15)	(\$127,9 (\$14,7 (\$6,8 (\$19,3
Landscaping Hydroseed Meadow planting Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Hydroseed in lieu of Meadow Planting move Planters, Shade Structure & Storage Shed Structure	18.00 7.05 18.74 51,184	% % % SF	\$2.50 (\$81,894.40) (\$96,635.39) (\$103,451.15) (\$2.40)	(\$127,9 (\$14,7 (\$6,8 (\$19,3 (\$122,8
Landscaping Hydroseed Meadow planting Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Hydroseed in lieu of Meadow Planting move Planters, Shade Structure & Storage Shed Structure Shade structure, custom painted steel with perforated metals	(51,184) 18.00 7.05 18.74 51,184 (3,275)	% % % SF	\$2.50 (\$81,894.40) (\$96,635.39) (\$103,451.15) (\$2.40)	(\$127,9 (\$14,7 (\$6,8 (\$19,3 (\$122,8
Landscaping Hydroseed Meadow planting Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Hydroseed in lieu of Meadow Planting move Planters, Shade Structure & Storage Shed Structure Shade structure, custom painted steel with perforated metals Raised Garden beds of recycled plastic lumber, 4' x 8' x 1'	(51,184) 18.00 7.05 18.74 51,184 (3,275) (10)	% % % SF	\$2.50 (\$81,894.40) (\$96,635.39) (\$103,451.15) (\$2.40) \$140.00 \$1,440.00	(\$127,9 (\$14,7 (\$6,8 (\$19,3 (\$122,8
Landscaping Hydroseed Meadow planting Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Hydroseed in lieu of Meadow Planting move Planters, Shade Structure & Storage Shed Structure Shade structure, custom painted steel with perforated metals Raised Garden beds of recycled plastic lumber, 4' x 8' x 1' Storage shed, semi-custom	(51,184) 18.00 7.05 18.74 51,184 (3,275) (10) (100)	\$F	\$2.50 (\$81,894.40) (\$96,635.39) (\$103,451.15) (\$2.40) \$1,440.00 \$1,440.00	(\$127,9 (\$14,7 (\$6,8 (\$19,3 (\$122,8 (\$458,5 (\$14,4 (\$15,0
Landscaping Hydroseed Meadow planting Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Hydroseed in lieu of Meadow Planting move Planters, Shade Structure & Storage Shed Structure Shade structure, custom painted steel with perforated metals Raised Garden beds of recycled plastic lumber, 4' x 8' x 1' Storage shed, semi-custom Remove fence, composed bins and granite creete	(51,184) 18.00 7.05 18.74 51,184 (3,275) (10) (100) 1	% % % SF SF EA SF LS	\$2.50 (\$81,894.40) (\$96,635.39) (\$103,451.15) (\$2.40) \$1,440.00 \$1,440.00 \$150.00 \$3,000.00	\$46,0° (\$127,9° (\$14,7° (\$6,8° (\$19,3° (\$122,8° (\$458,5° (\$14,4° (\$15,0° \$3,0° \$58,9°
Landscaping Hydroseed Meadow planting Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Hydroseed in lieu of Meadow Planting move Planters, Shade Structure & Storage Shed Structure Shade structure, custom painted steel with perforated metals Raised Garden beds of recycled plastic lumber, 4' x 8' x 1' Storage shed, semi-custom	(51,184) 18.00 7.05 18.74 51,184 (3,275) (10) (100)	\$F	\$2.50 (\$81,894.40) (\$96,635.39) (\$103,451.15) (\$2.40) \$1,440.00 \$1,440.00	(\$127,9) (\$14,7- (\$6,8 (\$19,3- (\$122,8) (\$458,5- (\$14,4- (\$15,0)

Sub-Total: Remove Planters, Shade Structure & Storage Shed

(\$638,903)

(\$35,450)

(\$100,831)

(\$502,621.00)

(\$538,071.21)

7.05

18.74

%

%

SBVC Landscape Masterplan

Concept Design February 6, 2024



Area 9
Central Event Plaza

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Code Quantity Unit Unit Rate Total Cost

F) Site Work (16-18)

16 Site Preparation and Demolition

Selective demolition	
Remove (E) paving	
Remove (E) landscaping - turf	
Site grading	
General site grading and compaction	
Erosion control	

50,975	SF
53,585	SF
53,585	SF
53,585	SF

2,610

SF

\$10,440
\$101,950
\$53,585
\$18,755
\$184,730

Sub-Total: 16 Site Preparation and Demolition

17 Site Paving, Structures & Landscaping

Paving
Integral colored CIP concrete in two or more agggregate finishes or combination
with unit pavers
Landscaping
Topsoil, fertilizer and grading
New trees (12 EA)
Trees, 72" box (20%)
Trees, 48" box (40%)
Trees, 36" box (40%)
Convert turf to Meadow (16,840 SF)
Native meadow sod
Convert turf to drought tolerant/natives/desert ground cover (16,020 SF)
Planting (100% area) - (5 gal@ 36"o.c.)
Geology garden - boulder variety (4'x4')
Irrigation
Structure
Shade structure, custom painted steel with perforated metals - amphitheater (2
EA)
Geology garden shade structure, custom painted steel with perforated metals
CIP concrete seatwalls, integral color with precast copings
Site furnishing
Café tables with 4 chairs and umbrella
Collaboration table with 6 chairs

20,725	SF	\$33.00	\$683,925
32,860	SF	\$2.00	\$65,720
2	EA	\$7,500.00	\$15,000
5	EA	\$4,185.00	\$20,925
5	EA	\$2,375.00	\$11,875
16,840	SF	\$4.00	\$67,360
16,020	SF	\$9.50	\$152,190
30	EA	\$250.00	\$7,500
			NIC
10,425 1,215	SF SF	\$140.00 \$140.00	\$1,459,500 \$170,100
1,215	LF	\$140.00	\$170,100
		75.5.00	71 7230
42	EA	\$3,400.00	\$142,800
5	EA	\$4,000.00	\$20,000
F2 F9F	SE.	ĆE2 OF	¢2.801.445
53,585	SF	\$53.95	\$2,891,145

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



	Quantity	Unit	Unit Rate	Total Cost
Jtilities on Site				
Electrical				
Oulets or power pedestal @ 50' o.c.	20	EA	\$4,850.00	\$97,00
Integrated lighting at shade structure	10,425	SF	\$6.00	\$62,5
Additional site lighting - 20% of area	10,717	SF	\$5.00	\$53,5
Pole lighting				N
PV panels				N
Sub-Total: 18 Utilities on Site	53,585	SF	\$3.98	\$213,1
tal - F) Site Work (16-18)	53,585	SF	\$61.38	\$3,289,01
nt Plaza - Mounted Benches in lieu of CIP Seatwalls				
	12 (198)	EA SF	\$3,000.00 \$375.00	\$36,0° (\$74,2
Structures Benches, freestanding with wood seat/back, high quality Concrete seating, integral CIP with precast copings	(198)	SF	\$375.00	(\$74,2
Structures Benches, freestanding with wood seat/back, high quality Concrete seating, integral CIP with precast copings Design/Cost Contingency	18.00	SF %	\$375.00 (\$38,250.00)	(\$74,2 (\$6,8
Structures Benches, freestanding with wood seat/back, high quality Concrete seating, integral CIP with precast copings	(198)	SF	\$375.00	
Structures Benches, freestanding with wood seat/back, high quality Concrete seating, integral CIP with precast copings Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Event Plaza - Mounted Benches in lieu of CIP Seatwalls	18.00 7.05	SF % %	\$375.00 (\$38,250.00) (\$45,135.00)	(\$74,2 (\$6,8 (\$3,1
Structures Benches, freestanding with wood seat/back, high quality Concrete seating, integral CIP with precast copings Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Event Plaza - Mounted Benches in lieu of CIP Seatwalls de Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal	18.00 7.05 18.74	% % %	\$375.00 (\$38,250.00) (\$45,135.00) (\$48,318.40)	(\$74,2 (\$6,8 (\$3,1 (\$9,0
Structures Benches, freestanding with wood seat/back, high quality Concrete seating, integral CIP with precast copings Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Event Plaza - Mounted Benches in lieu of CIP Seatwalls de Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal Structure	18.00 7.05 18.74	% % % SF	\$375.00 (\$38,250.00) (\$45,135.00) (\$48,318.40) (\$4,781.08)	(\$74,2 (\$6,8 (\$3,1 (\$9,0
Structures Benches, freestanding with wood seat/back, high quality Concrete seating, integral CIP with precast copings Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Event Plaza - Mounted Benches in lieu of CIP Seatwalls de Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal Structure Shade Structure Pre-engineered Tensile Fabric	18.00 7.05 18.74 12	% % % SF	\$375.00 (\$38,250.00) (\$45,135.00) (\$48,318.40) (\$4,781.08)	(\$74,2 (\$6,8 (\$3,1 (\$9,0 (\$57,3
Structures Benches, freestanding with wood seat/back, high quality Concrete seating, integral CIP with precast copings Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Event Plaza - Mounted Benches in lieu of CIP Seatwalls de Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal Structure	18.00 7.05 18.74	% % % SF	\$375.00 (\$38,250.00) (\$45,135.00) (\$48,318.40) (\$4,781.08)	(\$74,2 (\$6,8 (\$3,1 (\$9,0 (\$57,3
Structures Benches, freestanding with wood seat/back, high quality Concrete seating, integral CIP with precast copings Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Event Plaza - Mounted Benches in lieu of CIP Seatwalls de Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal Structure Shade Structure Pre-engineered Tensile Fabric	18.00 7.05 18.74 12	% % % SF	\$375.00 (\$38,250.00) (\$45,135.00) (\$48,318.40) (\$4,781.08)	(\$74,2 (\$6,8 (\$3,1 (\$9,0 (\$57,3 \$834,0 (\$1,459,5
Structures Benches, freestanding with wood seat/back, high quality Concrete seating, integral CIP with precast copings Design/Cost Contingency Market Escalation to Buyout GC Mark-ups Sub-Total: Event Plaza - Mounted Benches in lieu of CIP Seatwalls de Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal Structure Shade Structure Pre-engineered Tensile Fabric Shade structure, custom painted steel with perforated metals	18.00 7.05 18.74 12	\$F	\$375.00 (\$38,250.00) (\$45,135.00) (\$48,318.40) (\$4,781.08) \$80.00 \$140.00	(\$74,2 (\$6,8 (\$3,1 (\$9,0

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Code Power for AV + projection screen at Stage Audiovisual Power for AV + projection screen at Stage LS \$100,000.00 \$100,000 1 Design/Cost Contingency 18.00 % \$100,000.00 \$18,000 \$118,000.00 \$8,323 Market Escalation to Buyout 7.05 % GC Mark-ups 18.74 % \$126,322.62 \$23,672 Sub-Total: Power for AV + projection screen at Stage \$149,994.72 \$149,995 1 SF

Hydroseed in lieu of Meadow Planting

Landscaping				
Hydroseed	16,840	SF	\$0.90	\$15,156
Meadow sod	(16,840)	SF	\$4.00	(\$67,360)
Design/Cost Contingency	18.00	%	(\$52,204.00)	(\$9,397)
Market Escalation to Buyout	7.05	%	(\$61,600.72)	(\$4,345)
GC Mark-ups	18.74	%	(\$65,945.46)	(\$12,358)

Sub-Total: Hydroseed in lieu of Meadow Planting 16,840 SF (\$4.65) (\$78,303)

SBVC Landscape Masterplan

Concept Design February 6, 2024



Area 10 Fault Line Promenade

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Code Quantity Unit Unit Rate Total Cost

F) Site Work (16-18)

16 Site Preparation and Demolition

Selective demolition		,
Remove (E) landscaping - turf, planting	45,582	SF
Site grading		
General site grading and compaction	58,568	SF
Erosion control	58,568	SF
Sub-Total: 16 Site Preparation and Demolition	58,568	SF

58,568	SF	\$0.35	\$20,499
58,568	SF	\$2.91	\$170,231

\$2.00

\$1.00

\$91,164

\$58,568

17 Site Paving, Structures & Landscaping

Sub-Total: 17 Site Paving, Structures & Landscaping	58,568	SF	\$27.96	\$1,637,339
Concrete pad for benches, 10' x 3'	38	EA	\$750.00	\$28,500
Miscellaneous		ΕΛ.	A750.00	420 = 22
integrated wiii, power and winte boards at snade structures	3	EA	\$2,800.00	\$8,400
Integrated wifi, power and white boards at shade structures	3	EA		
Trash receptacles	8	EA	\$1,200.00	\$76,200
Collaboration tables, solar powered, 12' x 10'	6	EA	\$12,700.00	\$76,200
Collaboration table with 6 chairs	24	EA	\$4,000.00	\$165,200
Café tables with 4 chairs and umbrella	48	EA	\$3,400.00	\$114,000
Site furnishing Benches, freestanding with wood seat/back, high quality	38	EA	\$3,000.00	\$114,000
Cita funciabia				
CIP concrete seatwalls, integral color with precast copings	152	LF	\$375.00	\$57,000
Shade structure pre-fabricated semi-custom outdoor pavilions (3 EA)	782	SF	\$150.00	\$117,300
Structure				
Irrigation				NI
Bioswale planting (5 gal@ 36"o.c.)	9,548	SF	\$9.50	\$90,706
Planting (50% area) - (5 gal@ 36"o.c.)	26,486	SF	\$9.50	\$251,617
Convert turf to drought tolerant/natives/desert ground cover				
Trees, 36" box	24	EA	\$2,375.00	\$57,000
New trees (24 EA)				
Topsoil, fertilizer and grading	36,034	SF	\$2.00	\$72,068
Landscaping				
Granicrete	4,507	SF	\$10.00	\$45,068
Integral color CIP concrete with light sand finish	18,027	SF	\$25.00	\$450,680
Paving	10.037	C.F.	¢2F 00	Ć4EO (

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



	Quantity	Unit	Unit Rate	Total Cost
Itilities on Site				
Stormwater treatment, bioswale, 4' (including cobble and boulder)	9,548	SF	\$26.00	\$248,24
Quad Oulets or power pedestal	14	EA	\$1,500.00	\$21,00
Additional site lighting - 20% of area	11,714	SF	\$5.00	\$58,56
Interpretative signage at promenade	1	EA	\$25,000.00	\$25,00
		CE	\$6.02	\$352,81
Sub-Total: 18 Utilities on Site	58,568	SF	70.02	
Sub-Total: 18 Utilities on Site al - F) Site Work (16-18)	58,568	SF	\$36.89	\$2,160,38
al - F) Site Work (16-18)				
al - F) Site Work (16-18) rnate:				
al - F) Site Work (16-18) rnate: de Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal				\$2,160,38
al - F) Site Work (16-18) rnate: de Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal Structure	58,568	SF	\$36.89	\$2,160,38
al - F) Site Work (16-18) rnate: de Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal Structure Shade Structure Pre-engineered Tensile Fabric	58,568 782	SF SF	\$36.89	\$ 2,160,38 \$62,56 (\$117,36
al - F) Site Work (16-18) rnate: de Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal Structure Shade Structure Pre-engineered Tensile Fabric Shade structure pre-fabricated semi-custom outdoor pavilions (3 EA)	782 (782)	SF SF SF	\$36.89 \$80.00 \$150.00	

Sub-Total: Shade Structure - Pre-engineered Tensile Fabric in lieu of Cusotm Metal

(\$105.00)

782

(\$82,107)

SBVC Landscape Masterplan

Concept Design February 6, 2024



Area 11 Academic Courtyard Refresh

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Code Quantity Unit Unit Rate Total Cost

F) Site Work (16-18)

16 Site Preparation and Demolition

Selective demolition	
Remove (E) landscaping - turf	
Site grading	
General site grading and compaction	
Erosion control	

Sub-Total:	16 Site	Preparation	and D	emolition

53,354	SF	\$2.00	\$106,7
53,354	SF	\$1.00	\$53,3
53,354	SF	\$0.35	\$18,6
53,354	SF	\$3.35	\$178,7

17 Site Paving, Structures & Landscaping

Paving	
Granite Creete paving at outdoor classroom and educatinal garden	
andscaping	
Topsoil, fertilizer and grading	
Trees, 36" box	
Convert turf to drought tolerant/natives/desert ground cover (34,272 SI	F)
Cobble (25% area); rock mulch	
Planting (75% area) - (5 gal@ 36"o.c.)	
Replace existing landscaping with new (17,582 SF)	
Cobble (25% area); rock mulch	
Planting (75% area) - (5 gal @ 36"o.c.)	
rrigation	
Structure	
Shade structure pre-fabricated semi-custom outdoor pavilions (1 EA)	
Seating pockets, 150 SF ea	-
Site furnishing	
Benches, freestanding with wood seat/back, high quality	
Collaboration tables, solar powered, 12' x 10'	
Trash receptacle	
Integrated wifi, power and white boards at shade structures	
Miscellaneous	
Concrete pad for benches, 10' x 3'	

•

1,500	SF	\$14.00	\$21,000
38,891	SF	\$2.00	\$77,781
24	EA	\$2,375.00	\$57,000
8,568	SF	\$8.00	\$68,544
25,704	SF	\$9.50	\$244,188
4,396	SF	\$8.00	\$35,164
13,187	SF	\$9.50	\$125,272
			NIC
260	SF	\$150.00	\$39,000
8	EA	\$7,500.00	\$60,000
16	EA	\$3,000.00	\$48,000
4	EA	\$12,700.00	\$50,800
8	EA	\$1,200.00	\$9,600
1	EA	\$2,800.00	\$2,800
16	EA	\$750.00	\$12,000
53,354	SF	\$15.95	\$851,149

18 Utilities on Site

	Sub-Total: 18 Utilities on Site	İ
		İ
Additional site lighting - 20% of area		
Electrical power pedestal		

8	EA	
10,671	SF	
53,354	SF	

\$4,850.00	\$38,800
\$5.00	\$53,354
\$1.73	\$92,154

Total - F) Site Work (16-18)

53,354 SF

\$21.03

\$1,122,039

SBVC Landscape Masterplan

Concept Design February 6, 2024



Area 12
West Parking Lot

SBVC Landscape Masterplan

Total - F) Site Work (16-18)

Concept Design Statement of Probable Cost February 6, 2024



F) Site Work (16-18) 16 Site Preparation and Demolition Selective demolition Remove (E) weeds at dirt lot 34,130 \$0.50 \$17,065 SF Site grading General site grading and compaction SF \$1.85 34,130 \$63,141 Erosion control 34,130 SF \$0.35 \$11,946 Sub-Total: 16 Site Preparation and Demolition 34,130 \$92,151 \$2.70 17 Site Paving, Structures & Landscaping **Paving** Asphalt vehicular paving, striping 24,168 SF \$10.50 \$253,761 Natural gray CIP concrete with retarder finish at walkways (10%) 2,701 SF \$24.00 \$64,831 Concrete Curb cuts (3 ea) 144 SF \$55.00 \$7,920 Concrete Curb LS \$10,000.00 \$10,000 1 New crosswalk on Mt Vernon Ave 440 SF \$16.00 \$7,040 ADA curb ramps 2 EΑ \$1,920.00 \$3,840 Landscaping Topsoil, fertilizer and grading \$14,234 7,117 SF \$2.00 New trees 36" box 33 EΑ \$2,375.00 \$78,375 Planting area at trees (40 SF ea) 1,320 SF \$16.00 \$21,120 Planting - (5 gal@ 36"o.c.) 5,797 SF \$9.50 \$55,072 Irrigation NIC Site furnishing Trash receptacle 4 EΑ \$1,200.00 \$4,800 Sub-Total: 17 Site Paving, Structures & Landscaping 34,130 \$15.26 \$520,993 18 Utilities on Site Additional site lighting - 20% of area SF 6,826 \$5.00 \$34,130 Sub-Total: 18 Utilities on Site 34,130 SF \$1.00 \$34,130

\$18.96

\$647,274

34,130

SF

SBVC Landscape Masterplan

Concept Design February 6, 2024



Area 13 Maintenance Yard

SBVC Landscape Masterplan

Total - F) Site Work (16-18)

Concept Design Statement of Probable Cost February 6, 2024



F) Site Work (16-18) 16 Site Preparation and Demolition Selective demolition Remove (E) paving 1,066 SF \$4.00 \$4,264 Remove (E) landscaping - turf, planting 4,704 \$2.00 \$9,408 SF Site grading General site grading \$5,770 5,770 SF \$1.00 Erosion control 5,770 \$0.35 \$2,020 SF 5,770 SF Sub-Total: 16 Site Preparation and Demolition \$3.72 \$21,462 17 Site Paving, Structures & Landscaping Paving Pedestrian crosswalk - Natural gray CIP concrete with retarder finish 1,066 \$24.00 \$25,584 SF ADA curb ramps 2 EΑ \$1,920.00 \$3,840 Landscaping Topsoil, fertilizer and grading 2,352 \$2.00 \$4,704 Replace existing landscaping with new (4,704 SF) Cobble (50% area) - 3"-6" 2,352 SF \$8.00 \$18,816 Planting (50% area) - (5 gal@ 36"o.c. & 1 gal @ 24" o.c.) 2,352 \$8.35 \$19,639 SF Irrigation NIC SF Sub-Total: 17 Site Paving, Structures & Landscaping 5,770 \$12.58 \$72,583 18 Utilities on Site No work required Sub-Total: 18 Utilities on Site 5,770

SF

5,770

\$16.30

SBVC Landscape Masterplan

Concept Design February 6, 2024



Signage Package

Construction Cost Detail - Signage

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



ode Quantity Unit Unit Rate Total Cost

Signage Package

New Signage	\$1,503,765			
LEVEL 1 GS Gateway Signage, 37' x 11' (double-sided)	1	EA	\$113,220.00	\$113,220
LEVEL 1 FD Front Door Signage, 18'-4" x 10'-2"	2	EA	\$40,938.22	\$81,876
LEVEL 1 CM Corner Marker, 10" x 11' to 14" x 13' (4-sided)	5	EA	\$11,700.00	\$58,500
LEVEL 2 E Entrance Signage, 9'-9 1/4" x 6'-4 3/4" (double-sided)	7	EA	\$22,567.30	\$157,971
LEVEL 2 DS Digital Signage, 10'-6" x 8'-6" (horizontal version)	4	EA	\$28,000.00	\$112,000
LEVEL 2 DS Digital Signage, 3'-6 1/2" x 7'-5" (vertical version)	5	EA	\$15,000.00	\$75,000
LEVEL 2 P Parking Markers, 3'-8 1/2" x 7'-4" (double-sided)	15	EA	\$11,057.81	\$165,867
LEVEL 3 IH Information Hubs, 2'-5" x 13' x 1' D (4-sided)	10	EA	\$20,570.00	\$205,700
LEVEL 4 D Directory, 2'-8" x 6'-4 3/4" (double-sided)	7	EA	\$8,227.62	\$57,593
LEVEL 4 MD Map Directroy, 2'-8" x 6'-4 3/4" (double-sided)	8	EA	\$8,227.62	\$65,821
LEVEL 4 VD Vehicular Directory, 4'-6" x 6'-7" (double-sided)	11	EA	\$13,151.25	\$144,664
LEVEL 4 PE Pedestrian Entrance Directory, 1'-2 3/4" x 4'-6 1/2" (double-sided)	8	EA	\$3,559.31	\$28,474
LEVEL 5 Bulding ID	78	EA	\$2,000.00	\$156,000
LEVEL 6 PS Pride Signage (Fence), 26 letters	5	EA	\$6,500.00	\$32,500
LEVEL 6 ES Educational Signage, 1' (side) x 5'-3" H x 7" (front)	11	EA	\$3,238.50	\$35,624
LEVEL 6 HS Historical Signage, 1' (side) x 5'-3" H x 7" (front)	4	EA	\$3,238.50	\$12,954
Remove existing signage	\$80,250			
(E) E Entrance Sign	8	EA	\$2,500.00	\$20,000
(E) MD Map Directory	10	EA	\$1,100.00	\$11,000
(E) DS Digital Sign	3			\$7,500
(E) D Directory	4	EA	\$1,100.00	\$4,400
(E) P Parking Markers	14	EA	\$1,600.00	\$22,400
(E) Bulding Identification	37	EA	\$350.00	\$12,950
(E) SBVC Signage on Building	2	EA	\$1,000.00	\$2,000
Design/Cost Contingency	18.00%		\$1,584,014.73	\$285,123
Market Escalation to Buyout	7.05%		\$1,869,137.39	\$131,832
General Conditions	7.50%		\$2,000,968.95	\$150,073
General Requirements	4.00%		\$2,000,968.95	\$80,039
Bonds	1.00%		\$2,000,968.95	\$20,010
General Liability Insurance	1.50%		\$2,231,080.38	\$33,466
Overhead & Profit	4.00%		\$2,284,556.27	\$91,382
Phasing	1			None

Sub-Total: Signage Package

Market Snapshot

SBVC Landscape Masterplan

Concept Design Statement of Probable Cost February 6, 2024



Project Escalation Forecast

Cumming revises our escalation forecast on a quarterly basis. All rates subject to change with market conditions.

Estimate Date	10/05/23
Construction Start	02/01/25
Construction Midpoint	10/31/25
Construction Completion	07/31/26
Construction Buyout	02/01/25
Construction Duration	545 Days
Construction Duration	18 months

Year	Time	Rate	Total	Rate
2023	0.24	6.50%	1.6%	
2024	1.00	5.00%	5.0%	6.65%
2025	0.08	4.50%	0.4%	7.05%
2026	0.00	4.00%	0.0%	7.05%
			Total Escalation to Buyout:	7.05%