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## President's Message



## David Wain Coon, Ed.D

With College of Marin approaching its centennial anniversary, this Landscape Master Plan reenvisions the outdoor spaces of the College's two beautiful campuses to better support our mission in the upcoming decades and second century. To maintain College of Marin as one of California's premier community colleges, we've invested in many new and renovated buildings and facilities over the past decade. With the Landscape Master Plan, we're now envisioning the enhancement and refinement of the campuses' outdoor spaces and settings, to be ever more attractive and functional for students, faculty and staff, update the character in keeping with Marin's casual and naturalistic sensibilities, and support the College's tagline of Dream.Learn.Achieve.

The Landscape Master Plan supports the Facilities Master Plan and represents an important component in our overall integrated planning efforts. I would like to thank the Landscape Master Plan Committee, the SWA consultant team, and all members of the College and County community who have devoted their time and energy to this planning process.

David Wain Coon, Ed.D. Superintendent/President



### Introduction

This Landscape Master Plan presents a special once-every-few-decades opportunity to step back and review the outdoor spaces and settings of the College's two beautiful campuses to envision how they might be enhanced and refined to best support the College's identity and mission moving forward.

Over the course of the yearlong consultancy, the following themes common to both campuses rose to top:

- 1. People Spaces: Focus on reestablishing and enhancing the campus' outdoor people spaces, to create ever more desirable campuses that students choose to attend given the range of higher education choices and that faculty and staff choose to associate with and grow with.
- 2. Casual and Naturalistic Character: Continue to evolve the character of the campuses to reflect Marin's casual and naturalistic sensibilities.
- 3.Increase Integration with Marin's Natural Systems: Showcase the plant species, materials, and local natural features for example Creeks of Marin, to heighten the distinct sense of place of each campus as being unique to Marin. This also helps respond to the worldwide issue of loss of habitat, as well as celebrate the Coast Miwok that lived throughout Marin.
- 4. Pause Investment in Parking, since demand trend is unclear, with distance learning becoming more effective, growing use of rideshare, ebikes and escooter micromobility, and upcoming self-parking and self-driving cars. With each campus' academic facilities generally clustered, it may be possible in the coming decades to reduce parking at the periphery of each campus.
- 5. Enhance Walkability and Micromobility: Expanding the pedestrian realms of each campus contributes to the pleasantness of attending College of Marin, and the clarity of visiting and moving through each campus. When augmented with enhanced bike and micromobility access to/from each campus, this also helps respond to the worldwide issue of climate change.

The Landscape Master Plan includes a range of proposals and initiatives that address the above themes. While the proposals and initiatives have been vetted and coordinated at a planning level, as they move forward to implementation they will be developed and studied in further detail.

The Landscape Master Plan addresses the Kentfield Campus and Indian Valley Campus in separate sections, with each section containing an Executive Summary, Supporting Analysis & Diagrams, and Design Guidelines.

### **Process**

The SWA consultant team prepared the Landscape Master Plan over the course of a year with regular engagement with the College's Landscape Master Plan Committee, presentations at key milestones to the Board of Trustees, engagement with the Campus Community and Public, and coordination with Community and County leaders and staff. The consultant team's process included the following steps:

1. Establishing Goals & Vision	March 2020
--------------------------------	------------

2. Preparing Inventory & Analysis April-May 2020

3. Generating Initial Concepts August-October 2020

November-December 2020 4. Refining the Preferred Direction

5. Preparing the Landscape Master Plan report January-February 2021

The consultant team worked closely with the College's Landscape Master Plan Committee, over eight meetings, to:

1. Establish Goals & Vision	March 13, 2020
2. Review Inventory & Analysis	April 17, 2020
3. Review Vegetation Inventory Scope	August 14, 2020
4. Review Initial Concepts	October 16, 2020
5. Tour both Campuses In-Person	November 20, 2020
6. Review Preferred Direction	December 4, 2020
7. Review Planting Design for a current Project	February 5, 2021
8. Review Landscape Master Plan report	February 19, 2021

Note that several members of the Landscape Master Plan Committee expressed an interest in continuing to serve on this committee to provide continuity as proposals and initiatives move into implementation

The consultant team presented to the Board of Trustees at the following key milestones:

1. Initial Concepts	October 20, 2020

2. Landscape Master Plan report March 9, 2021

Campus Community Engagement:

1. Initial Concepts - Fall Semester

a. Campus Forum focused on Kentfield Campus	September 15, 2020
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b. Campus Forum focused on Indian Valley Campus September 16, 2020

2. Preferred	Direction -	– Sprina	Semester
		3	

a. Campus Forum covering both campuses	February 10, 2021
b. Campus Forum covering both campuses	February 24, 2021
c. Presentation to College Council	March 4, 2021

#### Public Engagement:

#### 1. Initial Concepts

a. Public Meeting focused on Kentfield Campus	September 9, 2020
b. Public Meeting focused on Indian Valley Campus	September 10, 2020

2. Preferred Direction	
a. Public Meeting focused on Kentfield Campus	December 9, 2020
b. Public Meeting focused on Indian Valley Campus	December 10, 2020
c. Public Meeting focused on Kentfield Campus neighbors	January 14, 2021
d. Public Meeting focused on Kentfield Campus neighbors	January 26, 2021
e. Public Meeting focused on Kentfield Campus neighbors	February 4, 2021

#### Select Additional Meetings with Community, County and College Representatives:

1. Call with Lindsay Baciagalupa/COM, to discuss Campus Outdoor Events	August 28, 2020
2. Call with Judy Roger, Sierra Club	November 17, 2020
3. Call with Dalene Whitlock, W-Trans, Consulting Traffic Engineer	November 18, 2020
4. Meeting with Charlotte Torgovitsky, California Native Plant Society	December 1, 2020
5. Call with Sandy Guldman, President, Friends of Corte Madera Creek Watershed	December 2, 2020
6. Meeting with Charlotte Torgovitsky, California Native Plant Society	December 16, 2020

- 7. Call with Dan Dawson, Principal Transportation Planner, and Bene da Silva, Engineering Assistant, County January 14, 2021 of Marin
- 8. Call with Anne Petersen, President, Kentfield Planning Advisory Board, and Sandy Guldman, President, Friends of the Corte Madera Creek Watershed January 15, 2021
- 9. Meeting with Sandy Guldman, President, and Nick Salcedo, Treasurer, Friends of Corte Madera Creek February 26, 2021 Watershed

## Acknowledgments

#### **Board of Trustees:**

- Wanden P. Treanor, President
- Stephanie O'Brien, Vice President
- Diana Conti, Clerk
- Suzanne Brown Crow, Trustee
- Philip Kranenburg, Trustee
- Eva Long, Trustee
- Paul da Silva, Trustee
- Khadija Nahkuda, Student Trustee

### **College Leadership:**

- Dr David Wain Coon, Superintendent/President
- Greg Nelson, Assistant Superintendent/Vice President of Administrative Services
- Klaus Christiansen, Director of Facilities Planning, Maintenance and **Operations**
- Isidro Farias, Director of Capital Projects

### Landscape Master Plan Committee:

- Paul da Silva, Faculty Emeritus, Life and Earth Sciences; Elected to Board of Trustees November 2020
- Sandy Guldman, Community Member
- Don Wihlborg, Community Member
- Rod Kerr, Community Member
- Fernando Agudelo-Silva, Faculty, Life and Earth Sciences
- Paul Cheney, Faculty, Social Sciences
- Jon Gudmundsson, Media Services, IT
- JRobert Dobbson Robinson, Laboratory Technician, Physics
- Valerie Marckwordt, Community Education & Services Program Specialist
- Jenifer Satariano, Accounting Technician
- Isidro Farias, Director of Capital Projects
- Klaus Christiansen, Director of Facilities Planning, Maintenance and Operations
- Johnny Campbell, Manager, Organic Farm and Garden
- Alicia Rowlett, Student

### Landscape Master Plan Committee Staff Support:

- Beth Rhodes, Manager of Communication & Outreach for Capital **Projects**
- Monica Rudolph, Administrative Assistant II for Capital Projects

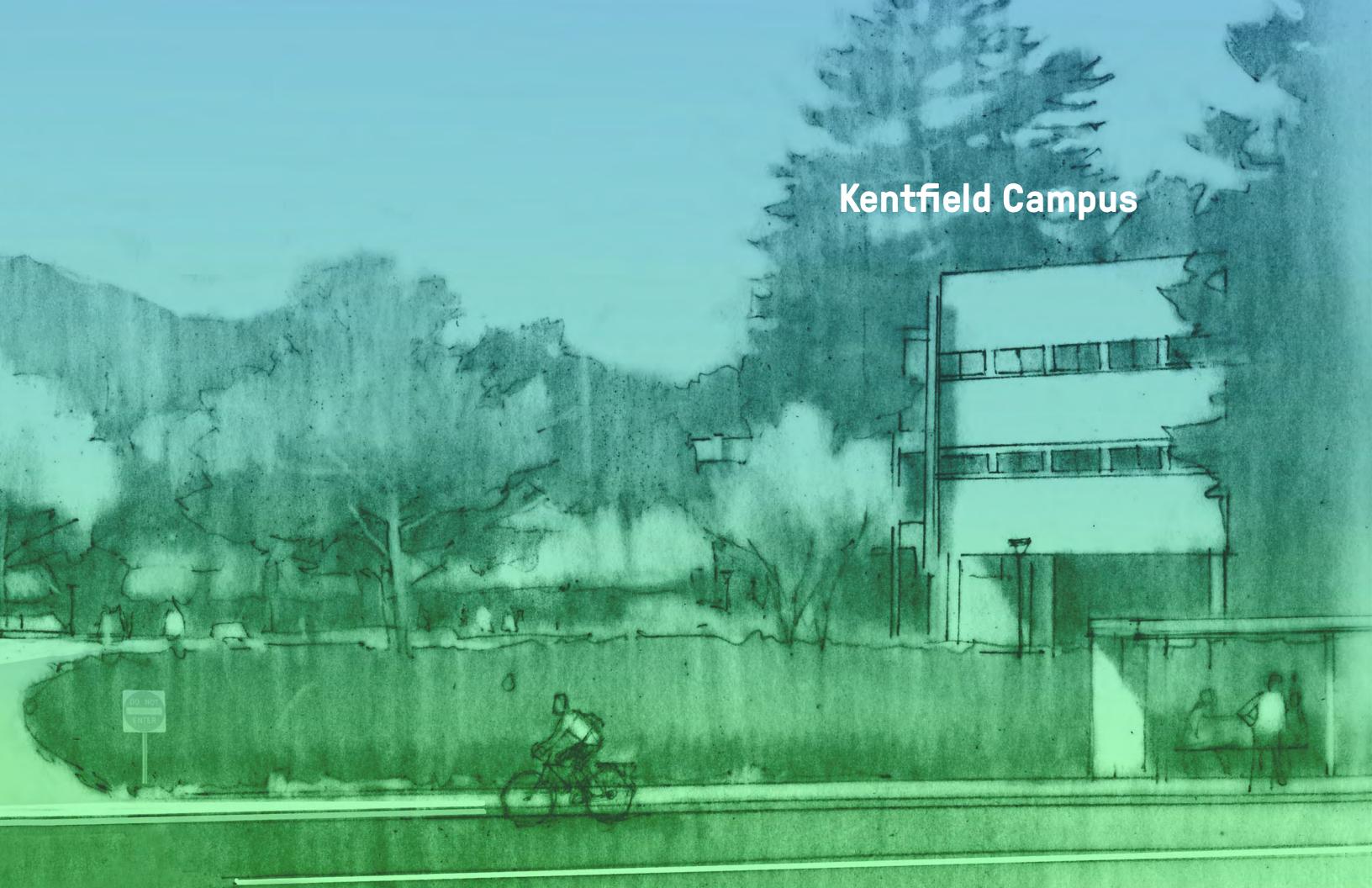
### **Community and County Contacts:**

- Anne Petersen, President, Kentfield Planning Advisory Board
- Sandy Guldman, President, Friends of the Corte Madera Creek Watershed
- Charlotte Torgovitsky, Garden Ambassador, California Native Plant Society
- Judy Rogers, Sierra Club
- Dan Dawson, Principal Transportation Planner, Department of Public Works, County of Marin
- Bene da Silva, Engineering Assistant, Department of Public Works, County of Marin

### Planning/Design Team:

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- Joe Runco, Principal, SWA
- Erica Huang, Associate Principal, SWA
- Allison Ecker, Associate, SWA
- Shaun Loomis, Associate, SWA
- Xiaomeng Ma, Landscape Designer, SWA
- Ying Tan, Landscape Designer, SWA
- David Lloyd, Associate Principal, Photographer, SWA
- Tom McClure, Artist
- Ben Anderson, ISA Board Certified Master Arborist, Urban Forestry **Associates**
- Zach Vought, ISA Certified Arborist, Urban Forestry Associates







## 1. Executive Summary

**Campus Goals** 

Maintain views to Mt Tam

Increase interactive people places and site furniture, such as recent swings

Transition the campus planting to increase Marin natives and reduce invasives, to support local ecology

Create a campus that is itself an educational experience

Create more inviting campus edges

Anticipate less future demand for parking pavement as online learning increases and non-car alternatives such as ebikes and rideshare grow

Enhance creek, and create interaction with creek

**Sustainability Goals** 

Create a lasting open space framework

Increase amenities such as dining and shaded outdoor people places to keep students, faculty and staff on campus

Extend and enhance walkability within campus and to surrounding areas

Encourage use of non-car micromobility to access campus by providing convenient routes and racks/lockers

Minimize land dedicated to parking by using efficient layouts and adjusting to mobility trends

Plant more trees, to shade paving and enhance creek ecology

Preserve and enhance Marin native planting and ecology, and remove invasive plant species

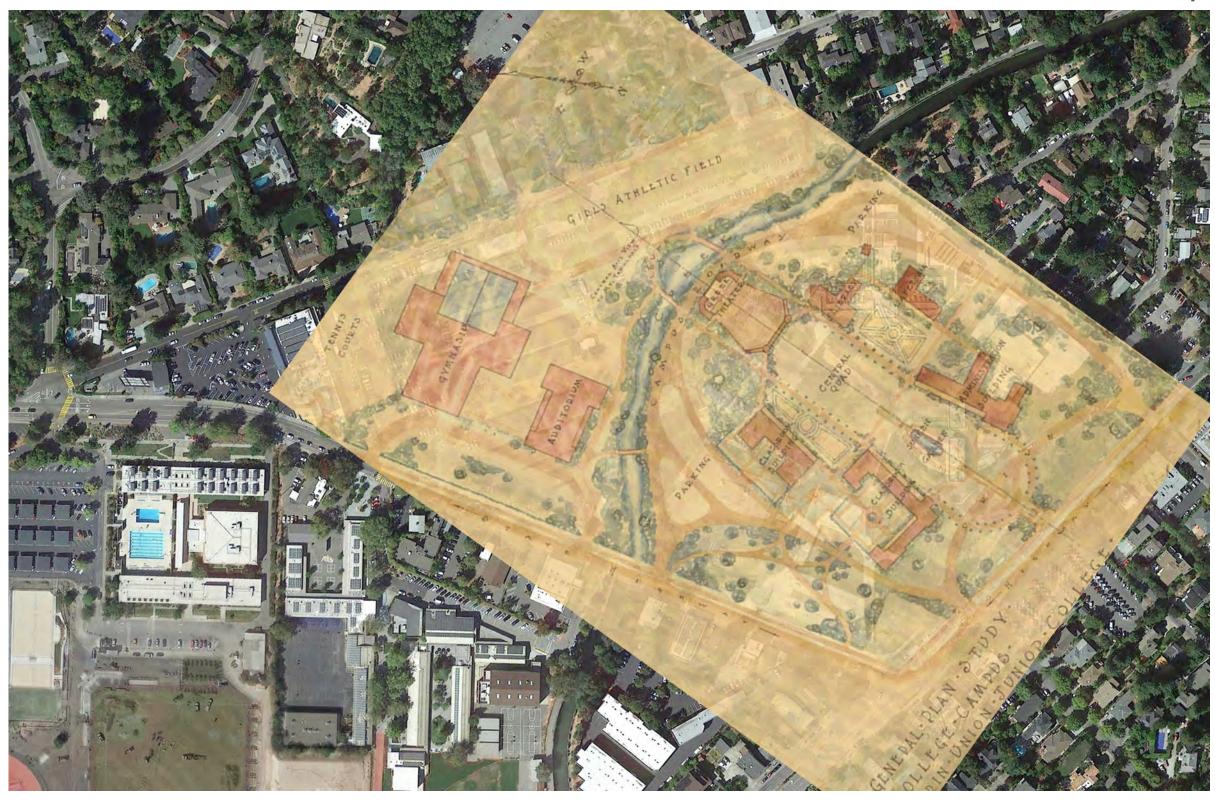
Enhance creeks, which are signatures of each campus

The Kentfield Campus, which is nestled into the lush tree-covered Ross Valley and has dramatic views of Mt Tamalpais, is a beautiful campus. The campus, which is approaching its centennial celebration, has evolved significantly over the past decade and a half with many new and renovated buildings and facilities.

Building on these recent investments, the College embarked on this Landscape Master Plan to plan the enhancement of the campus' outdoor spaces and setting, to be ever more attractive and functional for students, faculty and staff, update the character in keeping with Marin's casual and naturalistic sensibilities, and support the College's tagline of Dream.Learn.Achieve.

Through the Landscape Master Plan's many meetings and engagement sessions, the campus goals and sustainability goals shown here were established to guide this effort. The exhibits on the following pages show the resulting master plan including transformational projects which boldly incorporate and reflect these goals. The Executive Summary is followed by Supporting Analysis & Diagrams as well as additional detail for implementation projects in the Design Guidelines.

## 1930s General Plan Study



## **Campus Core: Evolution over Time**

### Campus in 2002



College of Marin's Kentfield Campus has grown and evolved in the 95 years since its founding as Marin Junior College in 1926 on the former Butler Estate in Kentfield. The early campus was organized with a handful of buildings flanking a signature outdoor space - the Central Quad - which extended from Sir Francis Drake to Corte Madera Creek on axis with the view to Mt Tamalpais.

Today, while most of the campus core's buildings date from the past decade and a half, the campus continues to be organized around a central outdoor space with views to Mt Tam. This central outdoor space is now about 90' east of its 1920s location as well as somewhat disjointed and piecemeal in shape and character. One of the top priorities of the Landscape Master Plan is to reestablish and enhance this outdoor space as the cohesive, iconic and lasting signature outdoor space for the Kentfield Campus.

### Existing (2018)

As the campus has evolved over the past 95 years, the central outdoor space has shifted eastward and become somewhat disjointed and piecemeal in shape and character.

The Landscape Master Plan shows the vision for creating a cohesive signature outdoor space for the campus, extending from Sir Francis Drake to the Student Services lawn. Flanked by tall redwood groves, the central outdoor space itself remains largely open - a clearing in the woods. To strengthen this space and create a cohesive and iconic "Glade" for the campus, the Landscape Master Plan shows curvilinear flanking walks, softly arcing cross-paths, and a handful of existing and proposed deciduous canopy trees that frame views to Mt Tam, provide shade during warmer months, and allow direct sun during cooler months. A few additional Coast Live Oaks will be interspersed with the deciduous canopy trees to provide shade during warmer spring semester days ahead of the deciduous trees leafing out. To reestablish the view axis to Mt Tam of the campus' original plan, a few taller trees, some of which are not healthy,



## Campus Core: Landscape Master Plan

### **Proposed**



are removed in the center. The upcoming Learning Resources Center project will add a vibrant plaza for dining, studying and socializing alongside the Glade, along the main flow of people to/from parking and the Physical Education Complex. Reestablishing and enhancing this outdoor space as the cohesive, iconic and lasting signature outdoor space for the Kentfield Campus is one of the top priorities of this Landscape Master Plan.

Other transformational projects in the Campus Core include enhancing and unifying the face of campus along Sir Francis Drake by reducing paving and shifting parking out of the Glade, and creating a better walking and arrival experience from parking (and the Physical Education Complex) south of Corte Madera Creek to the Campus Core.

#### Transformational Projects:

- Heart of Campus Glade: Reestablish a cohesive heart of campus signature space, including a vibrant plaza for studying, dining and socializing
- Campus Face: Enhance the campus face along Sir Francis Drake
- Creekside Arrival: Create better walking connections and arrival experience to/from parking, Corte Madera Creek path, and the Physical Education Complex

The Landscape Vision Plan shows the Landscape Master Plan plus potential longer-term initiatives that would be led by the County as well as potential longer-term initiatives by the College. These potential longer-term initiatives include:

- Corte Madera Creek enlargement and bank naturalization for flood reduction and ecological restoration
- College Avenue Enhancement, from Kent Woodlands intersection to Sir Francis Drake
- Campus Core Glade Extension to Corte Madera Creek
- Additional Photovoltaic Panels over Parking Lots

Corte Madera Creek, which is tidal through the campus, has been channelized since the late 1960s and occasionally floods. The Friends of Corte Madera Creek Watershed, working with the County, propose removing the Creek's concrete floor and right bank wall from the Science-Math-Nursing bridge to where the Creek widens, to increase capacity as well as restore the riparian ecology. While the Landscape Master Plan shows paths and parking shifted away from the Creek's right bank to accommodate creek widening, the Landscape Vision Plan shows the creek widening itself per the Friends' plans.

College Avenue, which links the two portions of the Kentfield Campus – the Campus Core to the northwest and the Physical Education Complex to the southeast – also serves as the commercial heart of Kentfield as well as the gateway to Larkspur to the south. In light of this, re-envisioning College Avenue from the large intersection at College, Kent & Woodland to Sir Francis Drake with grand street trees, wider sidewalks and attractive site furnishings would enhance the character and vibrancy of the commercial heart of Kentfield and better link the College's two portions. A planted roundabout at College, Kent & Woodland would create a gateway to the College, Kentfield, Kent Woodlands and Larkspur. This concept was well received in conversations with the public, County staff and the president of the Kentfield Planning Advisory Board.

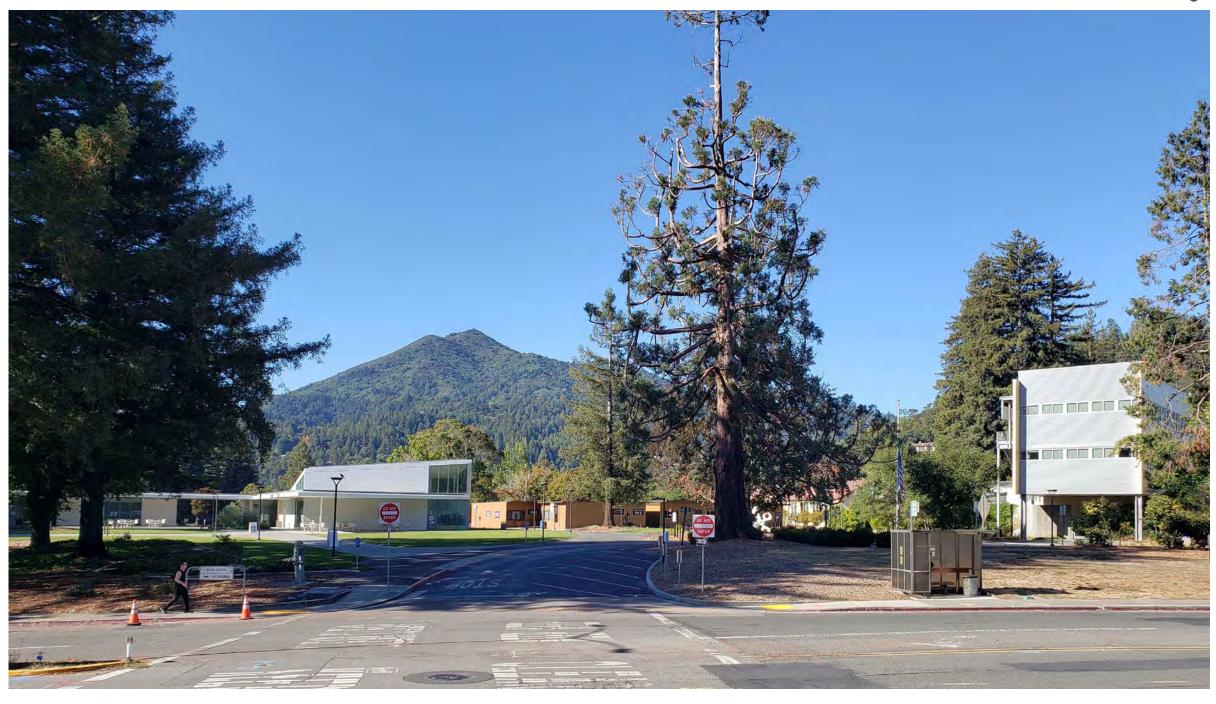
The Landscape Master Plan reestablishes the campus' signature outdoor space – the Glade – as a cohesive and iconic design per the spirit of the original "Central Quad." The campus' original general plan shows the central outdoor space extending from Sir Francis Drake to Corte Madera Creek, with an outdoor "Greek Theater" amphitheater on the slope above the Creek. The Vision Plan shows the opportunity to achieve this grand idea for the campus by removing the Student Services building once no longer needed and extending the Glade down the slope to Corte Madera Creek.

If the College wishes to add more photovoltaic panels, the Landscape Vision Plan shows panels over parking lots that do not yet have them, for example Lot 7 which is parallel to Woodlands Market.

# **Campus Core: Landscape Vision Plan**



## Existing



## **Transformation: Campus Face**

### **Proposed**



The Kentfield Campus is located on a beautiful rise in the Ross Valley, with views to Mt Tam. The campus' public face along Sir Francis Drake, however, only hints at the campus' beauty and doesn't contribute to its identity to the wider community. To transform the campus face and contribute to College identity and wider community pride, the Landscape Master Plan proposes strengthening the expression of the campus' signature open space - the Glade - along Sir Francis Drake.

As shown here, this is achieved by reducing paving and shifting parking out of the Glade, reducing signage clutter, shifting the bus stop a bit westward to where buses tend to stop, and planting the Sir Francis Drake frontage with waist-high evergreen shrubs. The view to Mt Tam is strengthened by maintaining and augmenting the Coast Redwood groves flanking the Glade, removing the single unhealthy Sequoia native to the Sierras (two healthy ones in the nearby Redwood Grove at the stone barbeque would remain), and by featuring existing and added native deciduous and broadleaf evergreen canopy trees framing the Glade.

## Existing



## Transformation: Campus Heart Glade

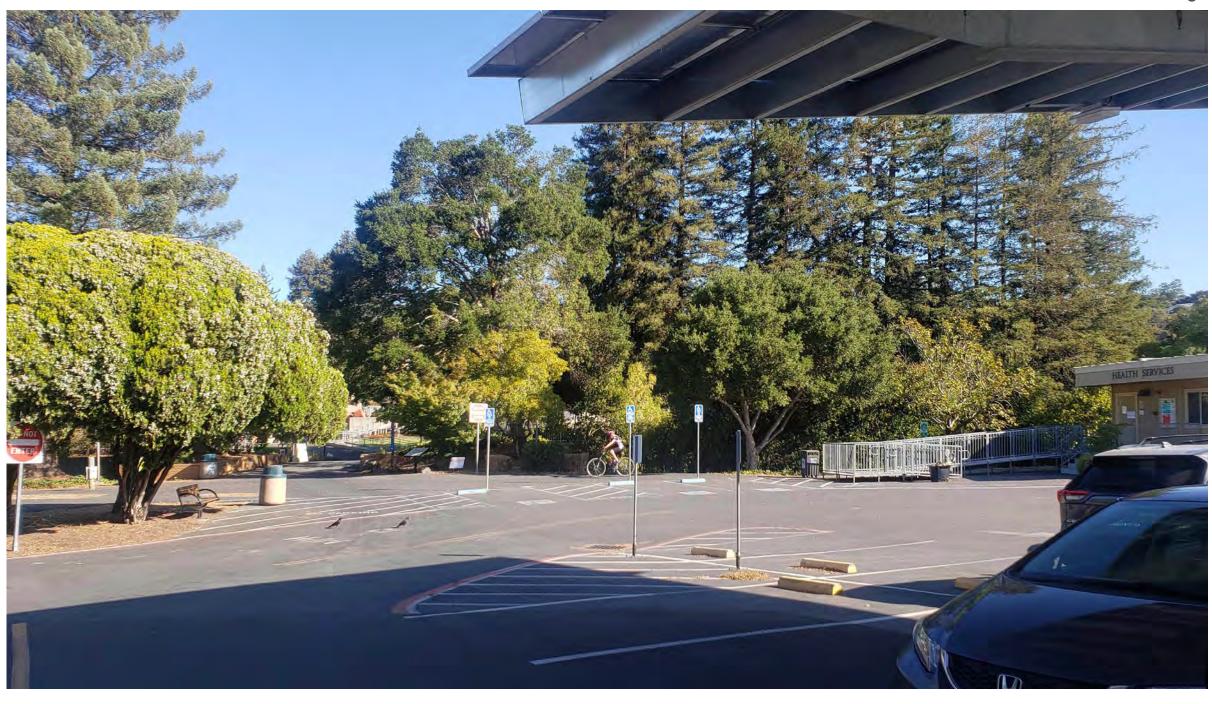
### **Proposed**



The Kentfield Campus has been organized around a signature outdoor space with views to Mt Tam since its founding. This outdoor space has changed considerably over time and has been reshaped and shifted eastward with the construction of the recent Fine Arts and Academic Center buildings. and is currently impacted by temporary classrooms during the construction of the Learning Resources Center.

To reestablish a cohesive character for this signature outdoor space, the Landscape Master Plan proposes a flowing informal clearing in the campus' trees - a Glade with curvilinear perimeter and crossing walks, a central meadow flanked by a swath of flowering and leafy native shrub planting along the west, and existing and new native deciduous canopy trees flanking a dramatic central view to Mt Tam. A few additional Coast Live Oaks will be interspersed with the deciduous canopy trees to provide shade during warmer spring semester days ahead of the deciduous trees leafing out. Circular stone seat walls within the swath of shrub planting provide informal outdoor classrooms for 15-20 student classes and seminars during mild weather. A vibrant plaza with extensive umbrella-shaded communal and individual seating for dining, studying and socializing as well as small events will be created with the upcoming Learning Resources Center at the southeast side of the Glade.

## Existing



### **Transformation: Creekside Arrival**

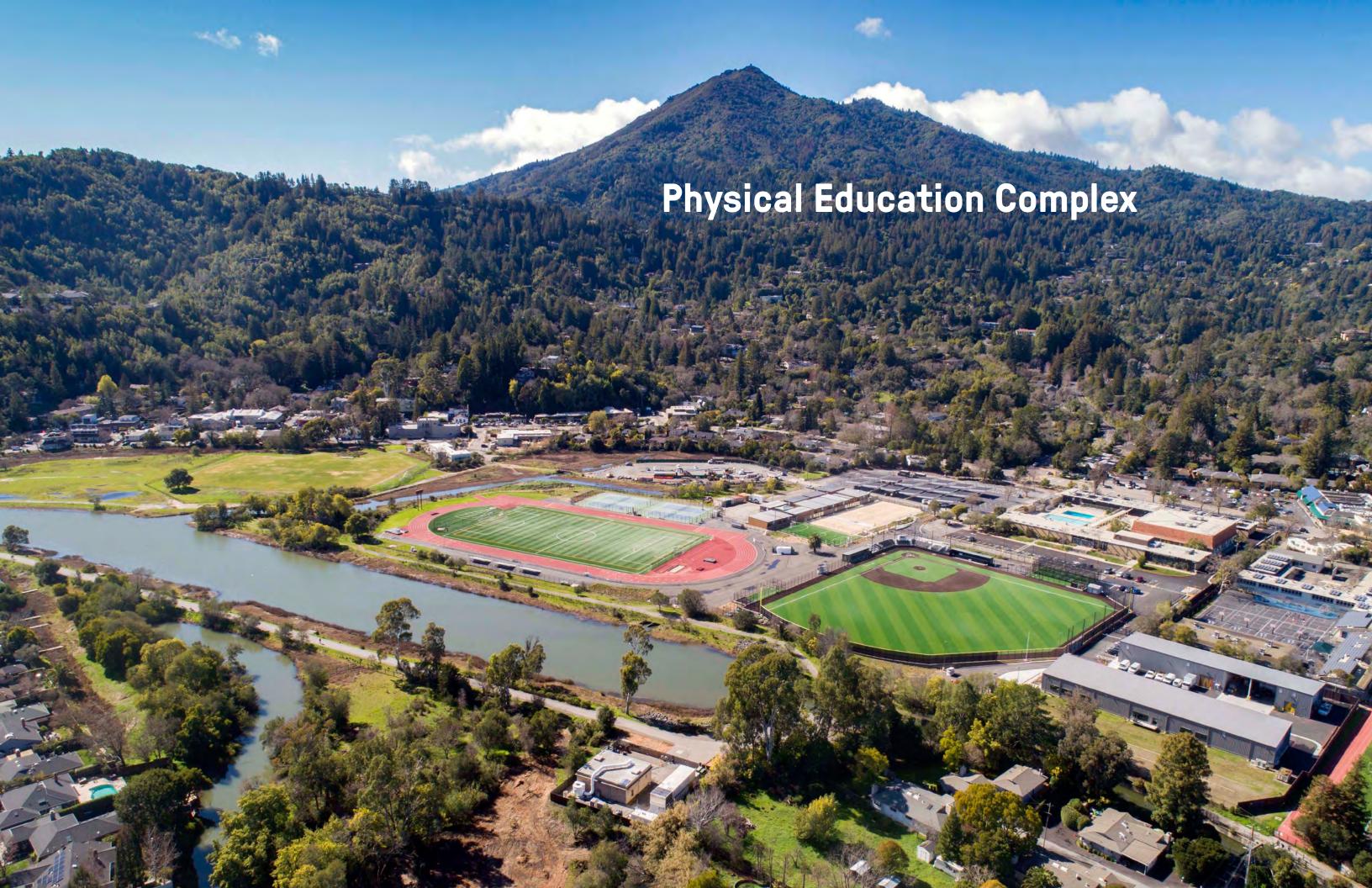
### **Proposed**



Many students going to the campus core arrive from parking, informal dropoff, bus stops and the regional path south of Corte Madera Creek.

The arrival experience, which is currently not well defined, is shown transformed with a campus sign and more immersive planting, a network of walkways uninterrupted by drives, a large dropoff, and a more inviting view to the bridge across Corte Madera Creek and campus core beyond. The network of landscaped walkways provide access to the various parking lots as well as a convenient, attractive connection to the Physical Education Complex further south. The walkway network, dropoff, and planting are shifted approximately 25 feet south to accommodate future widening of Corte Madera Creek for flood reduction and ecological enhancement per the Friends of Corte Madera Creek Watershed's concept.

In the campus core, the transition between creekside and Glade levels will be transformed by a new vibrant "people place" facing Mt Tam - the Social Slope - which will be created with the upcoming Learning Resources Center.



## Existing (2018)



## Physical Education Complex: Landscape Master Plan

### **Proposed**



More than half of the Kentfield Campus property is located east of College Avenue, a ten minute walk south of the campus core. This portion of campus is predominantly comprised of the Physical Education building and fields. Other facilities include the Child Study Center, Campus Police offices and Maintenance & Operations.

The College expanded to this site when Physical Education moved here in the 1960s, around the same time that the Corte Madera Creek was channelized, to create more room for buildings and parking adjacent to the campus core. Like the campus core, the Physical Education Complex has dramatic views of Mt Tam and is contiguous with Corte Madera Creek.

The Landscape Master Plan for the Physical Education Complex focuses on enhancing the walking experience between College Avenue, parking, the Physical Education Center, the various outdoor fields and facilities, Corte Madera Creek, and the regional path along the Creek. The master plan also creates an enhanced vehicular arrival from the College, Kent & Woodland intersection flanked by new groves of Coast Redwood trees. The master plan also shows the creek habitat restoration south of Stadium Way per the Friends' and County's Lower Corte Madera Creek Concrete Channel Removal project, the design of which is nearing completion.

The Landscape Vision Plan shows the Landscape Master Plan plus potential longer-term initiatives that would be led by the County as well as potential longer-term initiatives by the College. These potential longer-term initiatives include:

- College Avenue Enhancement, from Kent Woodlands intersection to Sir Francis Drake
- Corte Madera Creek enlargement and bank naturalization for flood reduction and ecological restoration, including new bridge at Stadium Way
- Additional Photovoltaic Panels over Parking Lots
- Upland Meadow and Wetland Restoration along original channel of Tamalpais Creek
- Tamalpais Creek and Murphy Creek culverts and outfalls realigned to original channel of Tamalpais Creek, out of middle of Physical Education area
- Regional Path Completion along west side of Creek

As mentioned previously, College Avenue,

which links the two portions of the Kentfield Campus – the Campus Core to the northwest and the Physical Education Complex to the southeast - also serves as the commercial heart of Kentfield as well as the gateway to Larkspur to the south. In light of this, reenvisioning College Avenue from the large intersection at College, Kent & Woodland to Sir Francis Drake with grand street trees, wider sidewalks and attractive site furnishings would enhance the character and vibrancy of the commercial heart of Kentfield and better link the College. A planted roundabout at College, Kent & Woodland would create a new gateway for the Physical Education Complex. This concept was well received in conversations with the public, County staff and the president of the Kentfield Planning Advisory Board.

If the College desires to further increase onsite energy generation, the Landscape Vision Plan shows additional photovoltaic panels over portions of parking lots that do not yet have them.

# Physical Education Complex: Landscape Vision Plan



## Existing



## Transformation: Physical Education Promenade & Mariners Deck

### **Proposed**



The Physical Education Complex has dramatic views of Mt Tam and spans from College Avenue to Corte Madera Creek. Currently access to the fields is via unshaded asphalt paving and the fields are fenced from the Creek and the well-used informal creekside path and regional path network.

The Landscape Master Plan proposes a deciduous canopy tree shaded promenade to create a pleasant walking experience between College Avenue, parking, the Physical Education Center, the various outdoor fields and courts, Corte Madera Creek, and the regional creekside path. The end of the promenade features an observation deck, for the first time connecting the College of Marin Mariners to the waters of the Creek and Bay beyond. The connection to the regional creekside path network creates a convenient link for running and jogging training as well as for commuting by walking and biking.

## **Existing (2018)**



- Performing Arts
- 2 Fine Arts
- 3 Science-Math-Nursing
- 4 Academic Center
- 5 Student Services Center
- 6 Learning Resources Center (2025)
- 7 Diamond Physical Education Center
- 8 Maintenance & Operations
- 9 Baseball Field
- 10 Beach Volleyball Courts
- 11 Tennis Courts
- 12 Pieper Field
- 13 Child Study Center

## Campus: Landscape Master Plan

### **Proposed**



The Landscape Master Plan for the overall Kentfield Campus reflects the goals and depicts the transformational projects described for the two portions of campus the Campus Core and the Physical Education Complex:

#### Goals:

- -Create a lasting open space framework
- Maintain and enhance views to Mt Tam
- -Increase interactive people places to study, socialize and linger on campus
- Extend the walkability within campus and to the surrounding areas
- Organize efficient parking layouts to minimize amount of paved land
- Transition the campus planting to increase Marin native species

#### Transformational Projects:

- Campus Face: Enhance the campus face along Sir Francis Drake
- Heart of Campus Glade: Reestablish a cohesive heart of campus signature space, including a vibrant plaza for studying, dining and socializing
- Creekside Arrival: Create better walking connections and arrival experience to/ from parking, Corte Madera Creek path, and Physical Education Complex
- Physical Education Promenade & Mariners Deck: Create a pleasant tree-shaded walking experience linking College Avenue, Physical Education's facilities, and Creek

# **Campus: Landscape Vision Plan**



The Landscape Vision Plan for the overall Kentfield Campus shows the Landscape Master Plan plus potential longer-term initiatives in the County's purview as well as potential longer-term initiatives by the College. These potential longer-term initiatives include:

Potential Longer-Term Initiatives:

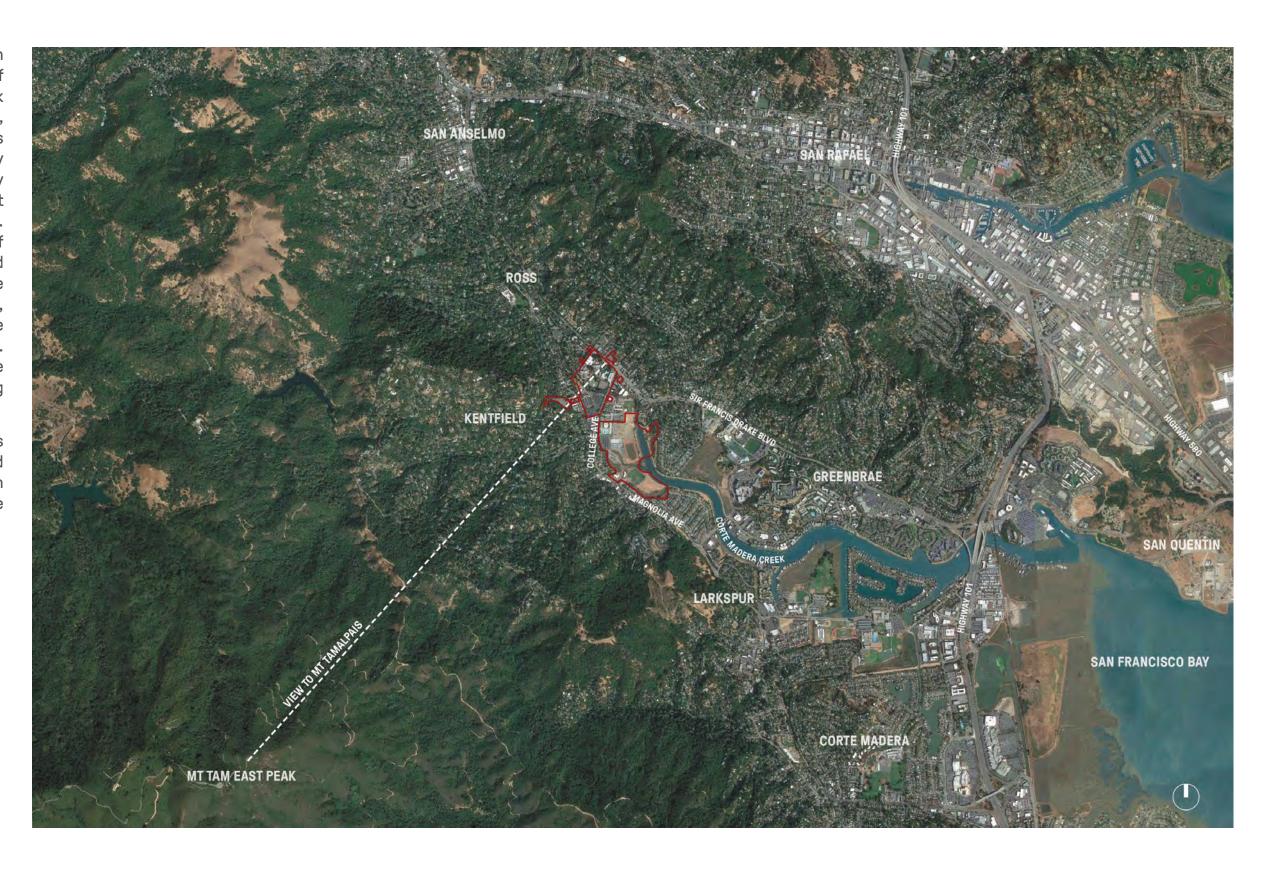
- Campus Core Glade Extension to Corte Madera Creek
- Corte Madera Creek enlargement and bank naturalization for flood reduction and ecological restoration, including new bridge at Stadium Way
- College Avenue Enhancement, from Kent Woodlands intersection to Sir Francis Drake
- Additional Photovoltaic Panels over Parking
- Upland Meadow and Wetland Restoration along original channel of Tamalpais Creek
- Tamalpais Creek and Murphy Creek culverts and outfalls realigned to original channel of Tamalpais Creek, out of middle of Physical Education area
- Regional Path Completion along the west side of Creek along the Physical Education Complex



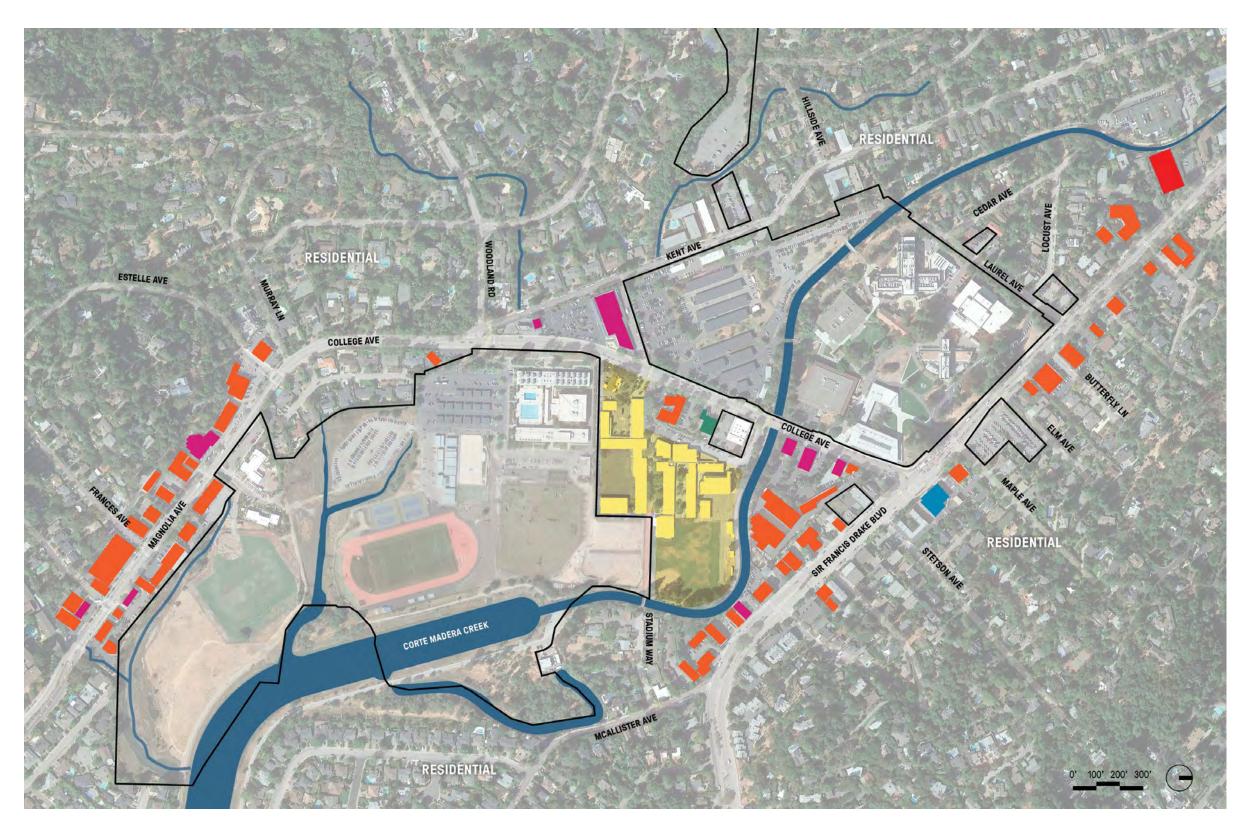
## **Regional Context**

The Kentfield Campus is located in Marin County's Ross Valley, 2.5 miles northeast of Mt Tamalpais' East Peak. Corte Madera Creek runsthroughoralongsidethe77acrecampus, on its way to San Francisco Bay 2.5 miles to the east. The campus is predominantly located in the unincorporated community of Kentfield, with the southeasternmost portion located in the City of Larkspur. Nearby communities include the Town of Ross to the west and the unincorporated community of Greenbrae to the east. The campus lies two miles west of Highway 101, with Sir Francis Drake Boulevard and College Avenue providing regional driving access. The Corte Madera Creek Path (Bicycle Route 20) provides regional walking and biking access.

Note that north is up (top of page) in this regional exhibit, while all other Kentfield Campus exhibits are turned 90 degrees with north on the right of the page to match the College's campus maps.



## **Campus Neighborhood Context**



The 77 acre Kentfield Campus includes two portions – the Campus Core to the northwest and the Physical Education Complex to the southeast. College Avenue and its continuation south into Larkspur, Magnolia Avenue, link the campus' two portions. College Avenue forms the commercial heart of Kentfield, with Woodlands Market, Half Day Café, Guesthouse restaurant, various other businesses including food service and professional offices, and the Post Office. The Kentfield Fire Station is located across street from the campus core at Sir Francis Drake & College. Sir Francis Drake Boulevard is also lined with businesses and professional offices. Other than the frontages along College Avenue and Sir Francis Drake, the surrounding areas are residential neighborhoods.

The A. E. Kent Middle School is located between the two portions of campus. Corte Madera Creek and the adjacent regional path runs through or alongside most of the campus.

- Commercial
- Retail Market, Food & Beverage
- Hospital
- **Fire Station** 
  - Post Office
- A. E. Kent Middle School

## **Campus Evolution over Time**

College of Marin has grown and evolved in the 95 years since its founding as Marin Junior College in 1926 on the former Butler Estate in Kentfield. The early campus was organized with a handful of buildings flanking a signature outdoor space – the Central Quad – which extended from Sir Francis Drake to Corte Madera Creek on axis with the view to Mt Tamalpais.

In the 1960s, the campus expanded substantially by moving Physical Education facilities to their current location east of College Avenue. This opened up the area adjacent to the Campus Core just south of Corte Madera Creek for more buildings and parking, generally per the aerial photo from 1987.

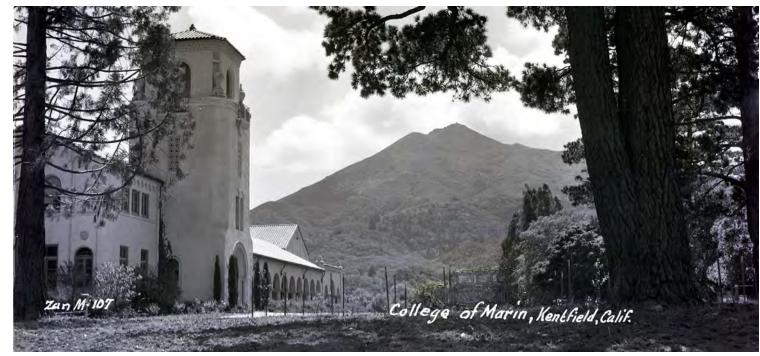
Beginning with Measure C funding in 2004 and continuing with Measure B funding in 2016, the College has newly constructed or renovated most buildings on the Kentfield Campus. The campus core's buildings continue to be organized around a central outdoor space with views of Mt Tam, but with recent construction of the Fine Arts and Academic Center buildings the location of the outdoor space has shifted about 90' east of its earlier location. Since this central outdoor space itself has not yet been intentionally designed, it is currently somewhat disjointed in shape and character. One of the top priorities of this Landscape Master Plan is to reestablish and enhance this outdoor space as the cohesive, iconic and lasting signature outdoor space for the Kentfield Campus.



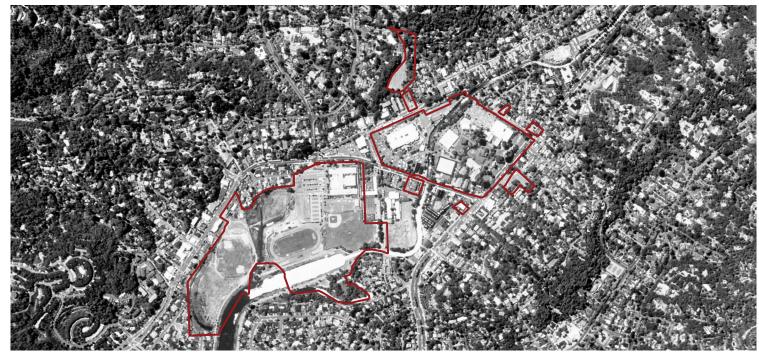
1890s Photo of Butler Estate Credit: Anne T. Kent California Room, Marin County Free Library



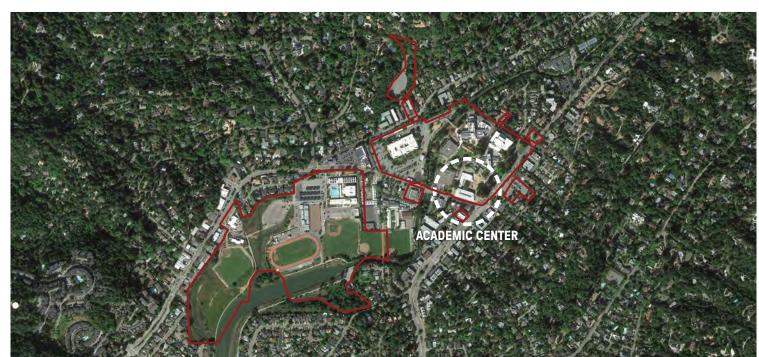
1920s Aerial of Ross Valley and Mt Tamalpais from Bay



1948 Postcard of Harlan Hall and Central Quad, with View to Mt Tam Credit: Anne T. Kent California Room, Marin County Free Library

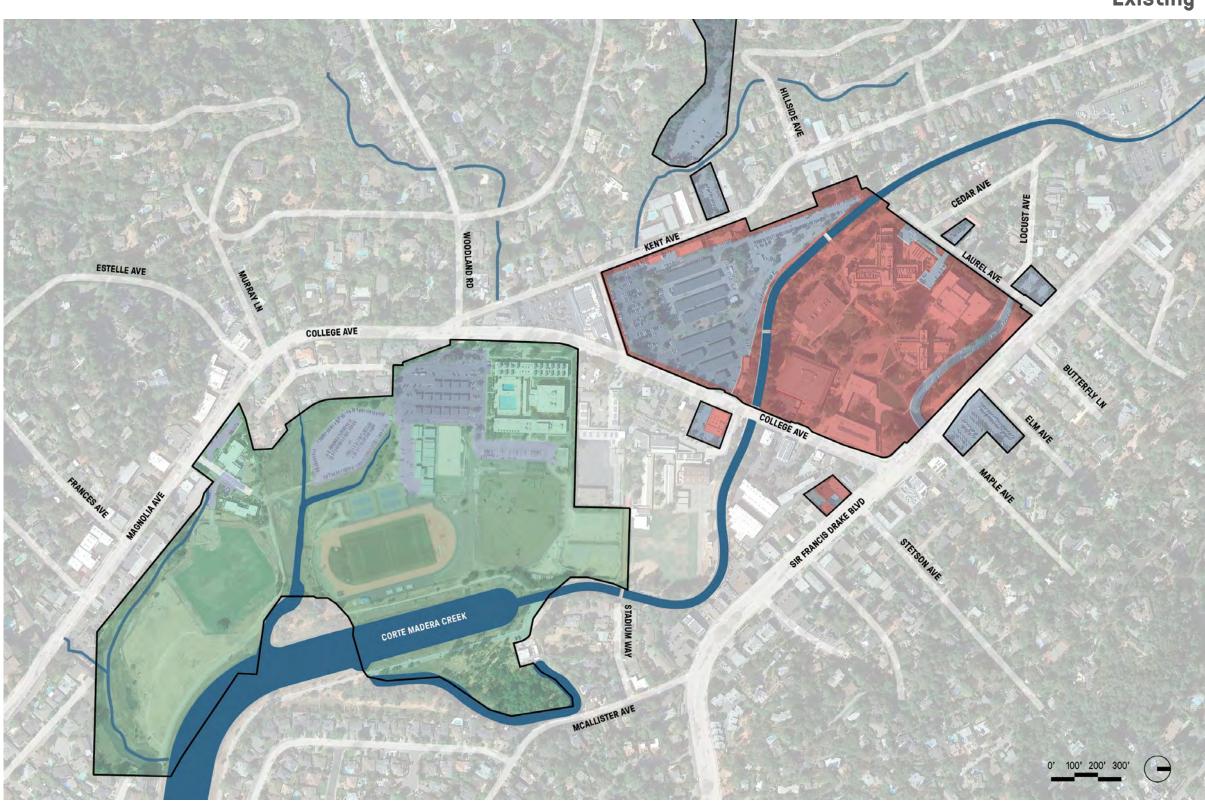








Kentfield Campus | College of Marin Landscape Master Plan | 43



Campus Core
Physical Education Complex
Corte Madera Creek
Parking

## Campus Layout

#### **Proposed**

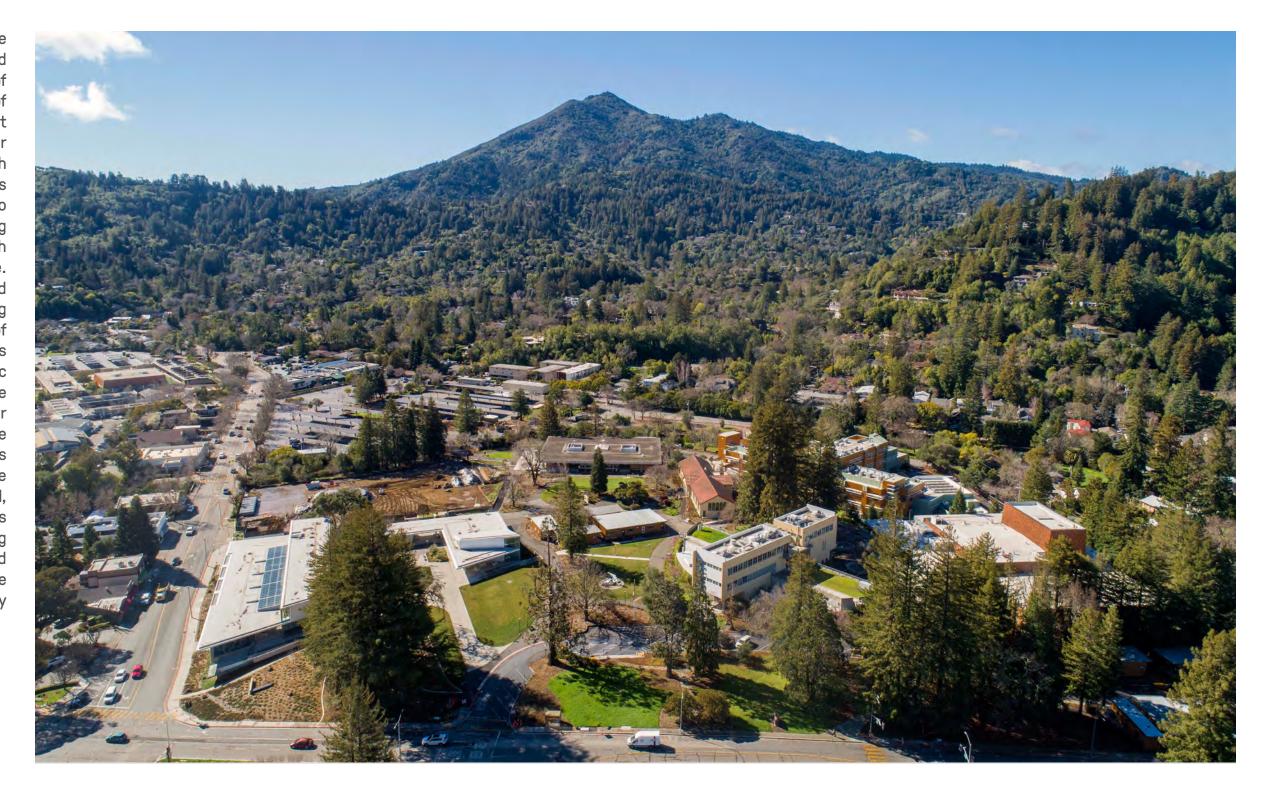


The 77-acre Kentfield campus is comprised of two nearby portions - the Campus Core to the northwest, and the Physical Education Complex to the southeast. The Campus Core includes most of the campus' academic buildings in a predominantly pedestrian area north of Corte Madera Creek, and associated parking south of Corte Madera Creek. The Physical Education Complex includes Physical Education's building, fields and courts, the Child Study Center, Campus Police offices, Maintenance & Operations, and parking.

The Landscape Master Plan anticipates that the general organization of the campus will remain the same for the foreseeable future. The Landscape Master Plan proposes further expanding the Campus Core's pedestrian realm by ending Circle Drive at the Glade, and by extending landscaped walks with few or no vehicular crossings to better defined parking areas and to the Physical Education Complex. The campus' signature outdoor space - the Glade - will be enhanced to be more cohesive as well as have more spaces for teaching, learning and social activities. Within the Physical Education Complex, a new shaded promenade connects most facilities, fields and courts as well as brings people to the water. The Physical Education Complex's naturalized areas along the waterways are shown expanded with more trees and continuous paths.

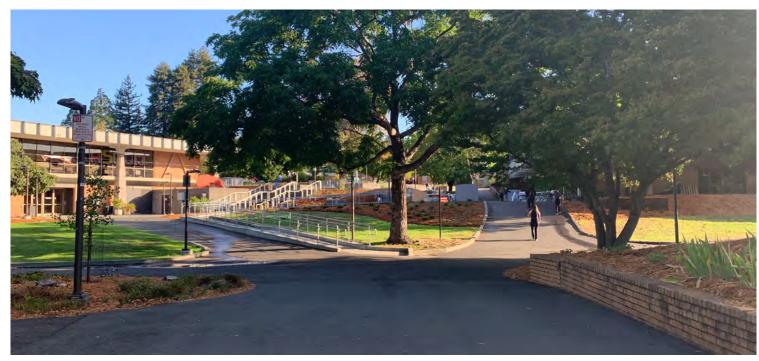
## **Existing Character of Campus: Campus Core**

The Kentfield Campus' Campus Core, like its Ross Valley context, is characterized by many large trees. Several groves of tall Coast Redwoods mark the edges of campus, including at the campus' most prominent corner at College Avenue and Sir Francis Drake. A central outdoor space with views to Mt Tam extends from Sir Francis Drake to the Student Services lawn. Two bridges spanning Corte Madera Creek bring people from parking and the regional path south of the Creek into the academic core. Because Corte Madera Creek is channelized with concrete walls and chain link fencing overgrown with vines, the Creek is less of a presence in the experience of campus than one might think. With most academic buildings surrounding a twenty foot rise above the Creek's banks, a number of stair and ramp systems have accreted over time contributing to visual clutter at campus approaches. The parking lots south of the Creek have accreted over time as well, and have somewhat inefficient layouts as well as a patchwork of driving and walking circulation patterns. Parking lots tucked into surrounding neighborhoods provide additional parking, especially for faculty and staff.





**Campus' Central Outdoor Space** 



Campus Core Entrance from Parking, Corte Madera Creek Path, and Creek

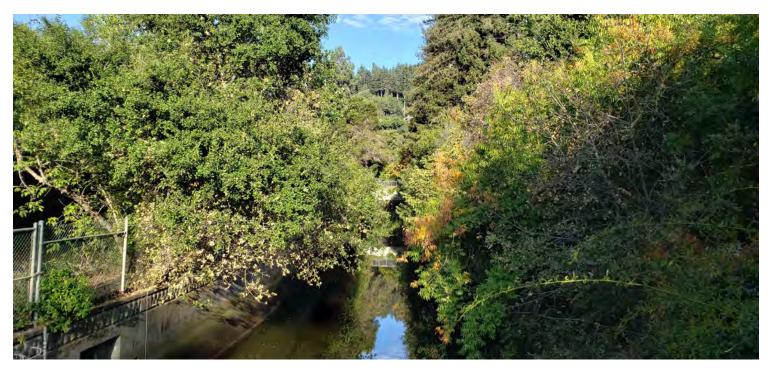


Student Services Lawn



Campus Corner at College Avenue & San Francis Drake

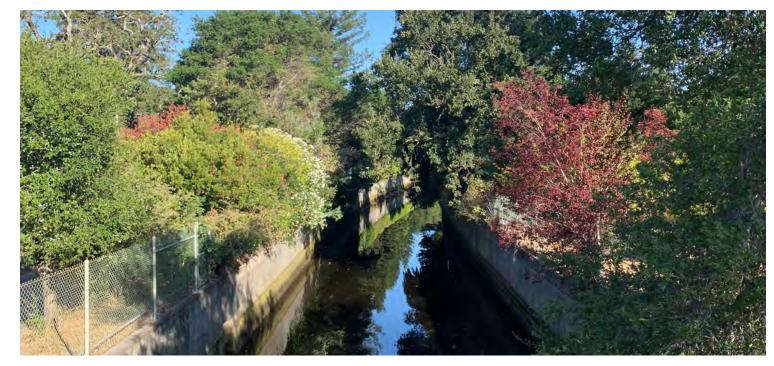
# **Existing Character of Campus: Creek**



Adjacent to Learning Resources Center



Adjacent to Physical Education Fields



Adjacent to Science-Math-Nursing Building



Adjacent to Maintenance & Operations

# **Existing Character of Campus: Parking Lots**



College Avenue Parking Lot P7, with Painted Walkway



Parking Lot P15, West of Kent Avenue



Parking Lot P17, Tucked into Granton Park Neighborhood



Gravel Parking Lot P13, between Physical Education and Child Study Center

# **Existing Character of Campus: Physical Education Complex**

The Kentfield Campus' Physical Education Complex extends from College Avenue to Corte Madera Creek. This portion of campus, which includes recently renovated sports facilities, fields and courts, plus associated parking, is quite open, with few large trees and relatively little ground plane planting. Although this portion of campus lies along Corte Madera Creek, fencing currently precludes people from accessing the Creek and regional path system along the Creek. The Child Study Center is located some distance away from other campus facilities, south of where College Avenue becomes Magnolia Avenue.





Physical Education Center including Pool



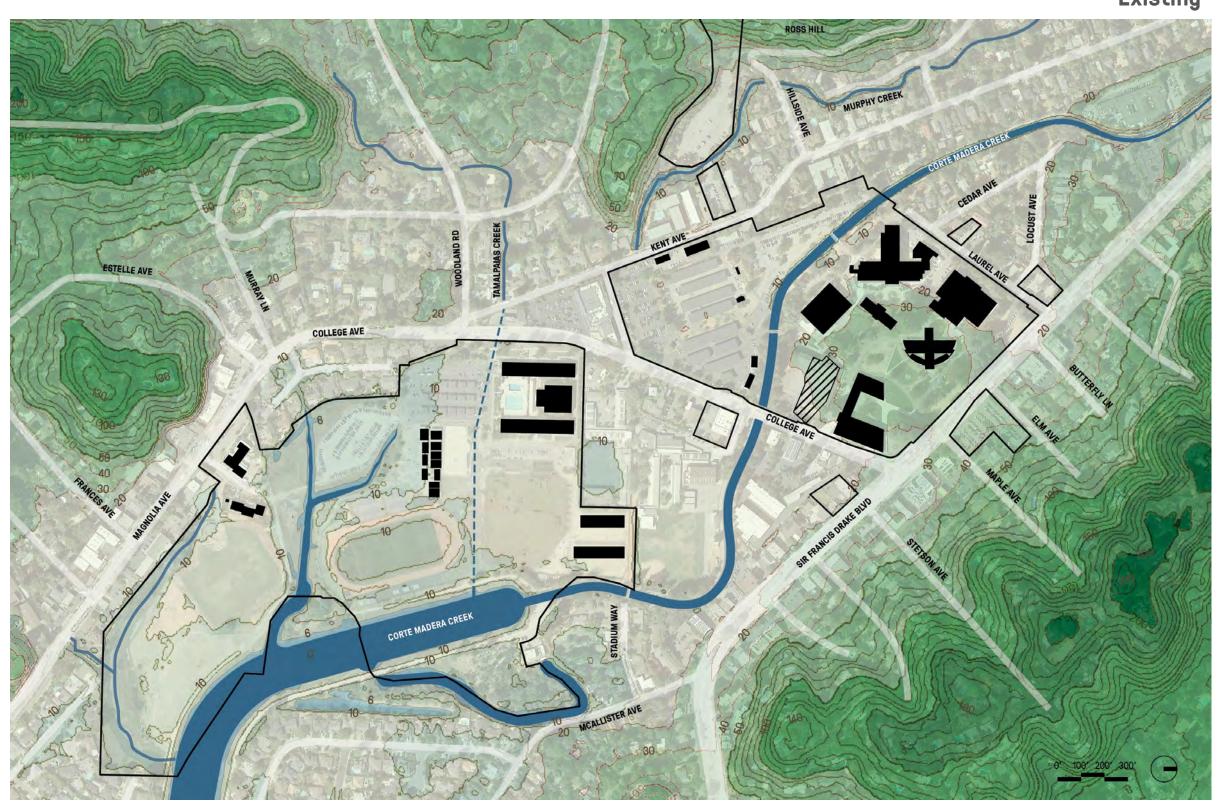
Sand Volleyball Courts



Looking between Baseball Field and Pieper Field Soccer & Track



**Child Study Center** 

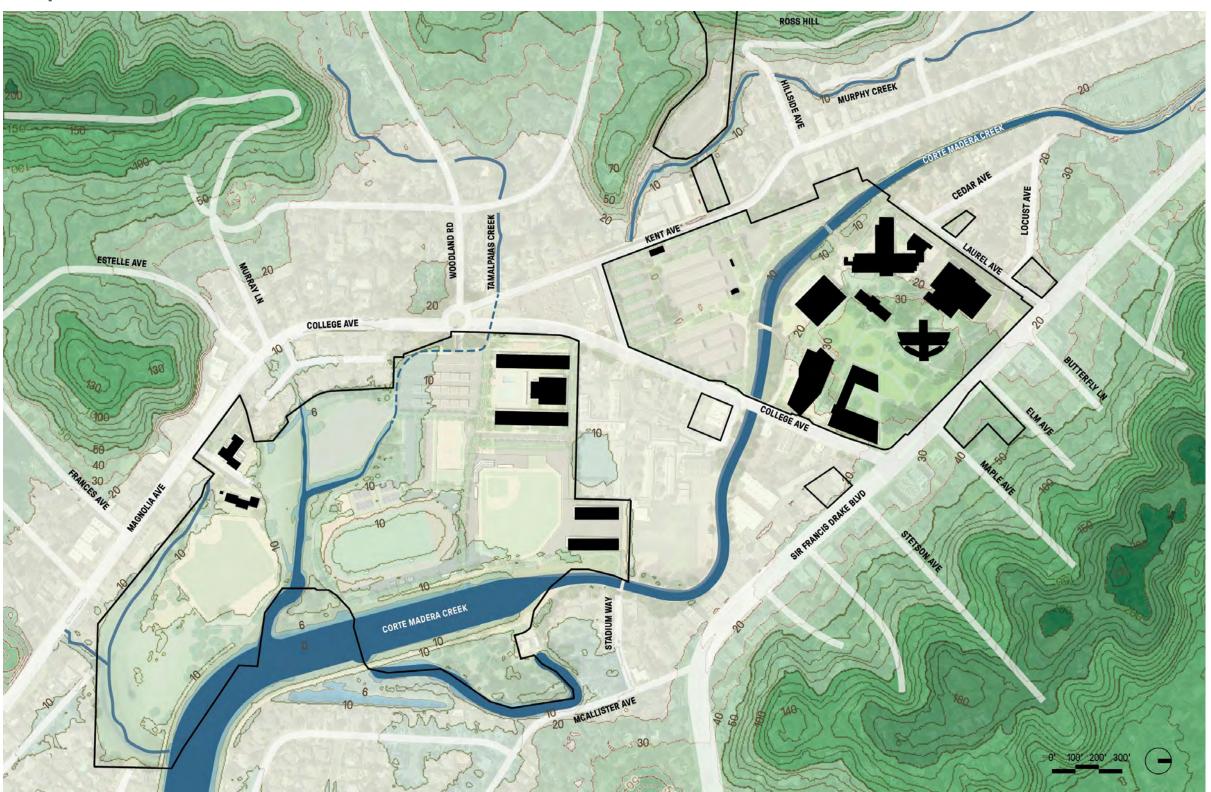


Contour (Every 10Ft)
Creek

NAD 1983 https://www.marinmap.org/Html5Viewer/Index.html?viewer=smmdataviewer

## **Topography & Natural Systems**

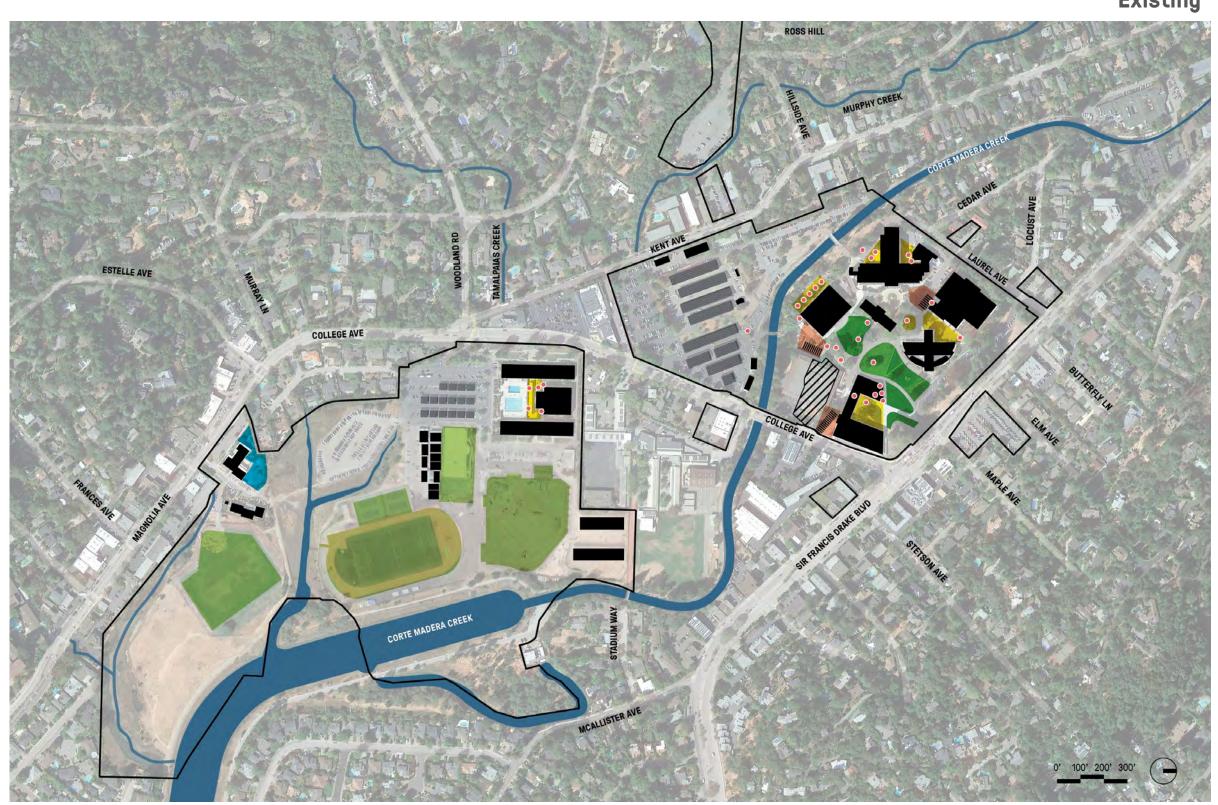
#### **Proposed**



The Kentfield Campus lies in the Ross Valley, spanning and flanking tidal Corte Madera Creek as it widens towards San Francisco Bay. The earliest portion of the campus near College Avenue and Sir Francis Drake sits on a rise about thirty feet above the Bay and about twenty feet higher than the creek bank and the balance of campus. Sir Francis Drake crests alongside the campus core's central outdoor space and view to Mt Tam near Maple Avenue.

Ross Valley receives more than 40 inches of annual rainfall, twice the average of the San Francisco Bay Area. Because of this, the campus context including surrounding ridges are green and lush year-round with extensive tree cover.

The Landscape Master Plan proposes increasing tree cover, reducing paving by using efficient layouts, creating a more gracious grade transition for the approach to the campus core from the south, and creating a fuller more immersive campus experience with increased ground plane planting. The Landscape Master Plan shifts paths and parking 25' away from Corte Madera Creek to accommodate the Friends of Corte Madera Creek Watershed's concept for naturalizing the Creek's right bank to reduce flooding and increase habitat.

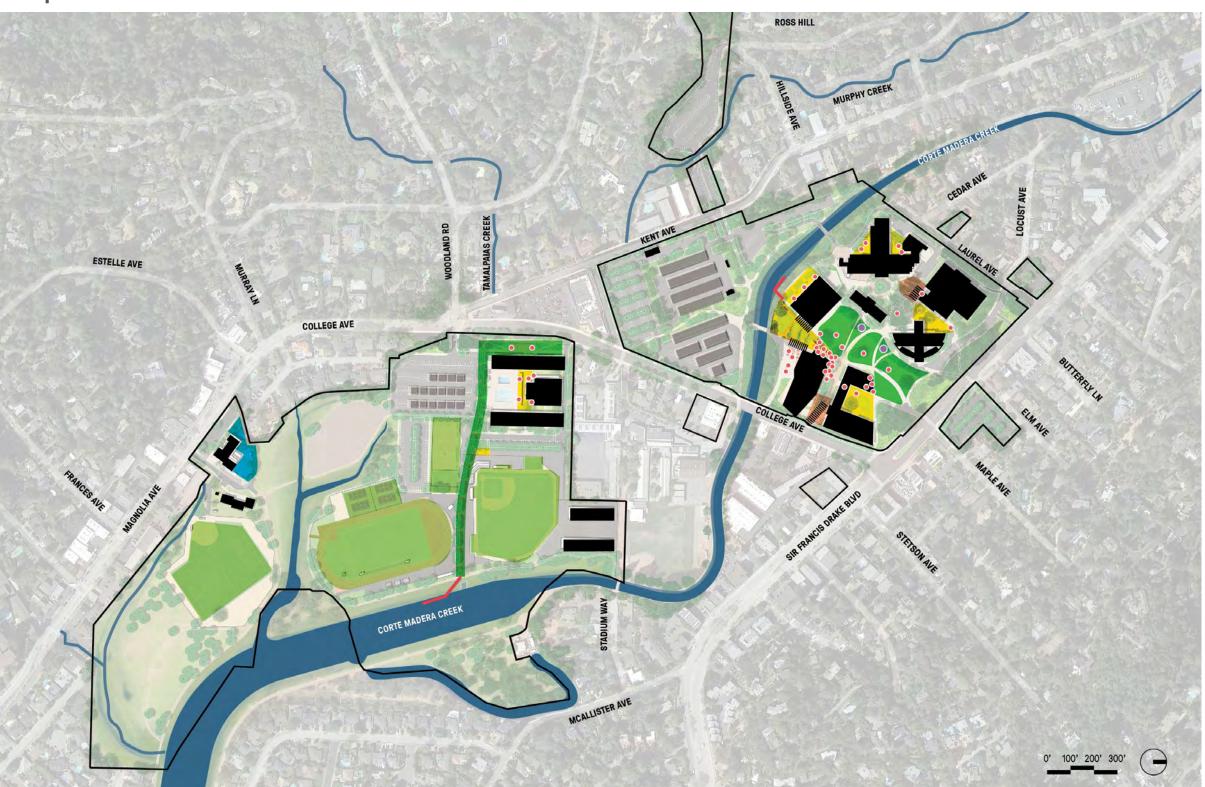


Signature Outdoor Space
Quad/Courtyard/Plaza
Outdoor Furniture
Outdoor Classroom
Connective Space
Stairs
Sports Fields
Children's Play Area
Building
Solar Panel over Parking

Deck or Overlook

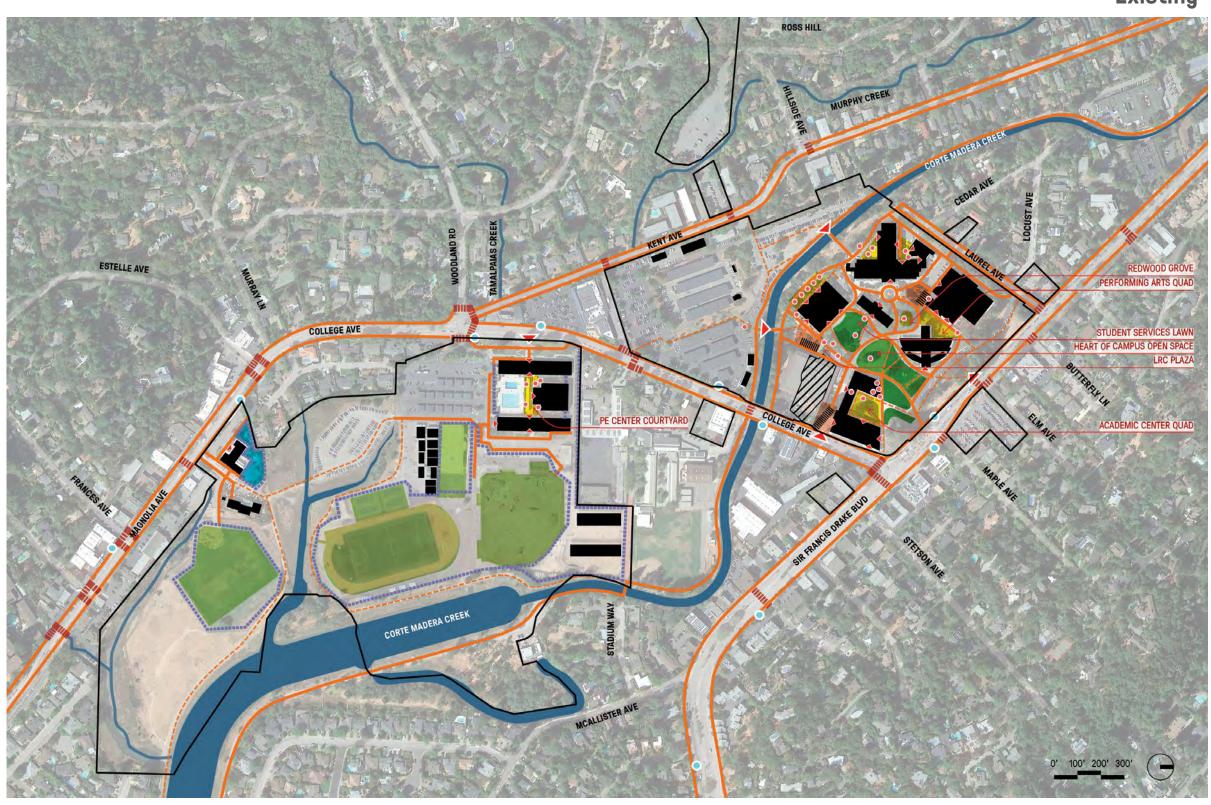
## **Building Massing & Outdoor Space**

#### **Proposed**



While the campus' general arrangement of buildings and outdoor spaces - especially that the majority of academic buildings flank the campus' central signature outdoor space - will remain similar to the existing in the coming decades, the Landscape Master Plan has identified opportunities to better choreograph the use and enhance the experience of the campus' outdoor spaces:

- Heart of Campus Signature Outdoor Space: Enhance the design and increase the usability of this space - the Glade - to reestablish it as an icon for College of Marin
- View Plaza and Social Slope: Shift student dining up to the Glade, to create a vibrant student dining, studying, socializing and event hub with communal tables, cafe tables and chairs, and seat platforms at the confluence of the signature outdoor space, the upcoming Learning Resources Center, the campus' creekside entrance, and views to Mt Tam.
- Physical Education Promenade: Create a tree-shaded walk that connects the majority of Physical Education facilities, from College Avenue to Corte Madera Creek, creekside regional path and a new Mariners Deck.



Main Walk
Walk

--- Path/Trail Crosswalk

▲ Building Entrance

▲ Main Pedestrian Entrance

Bus Stop

---- Fence

Glade or Promenade
Quad/Courtyard/Plaza

Outdoor Classroom

Outdoor Furniture

Connective Space

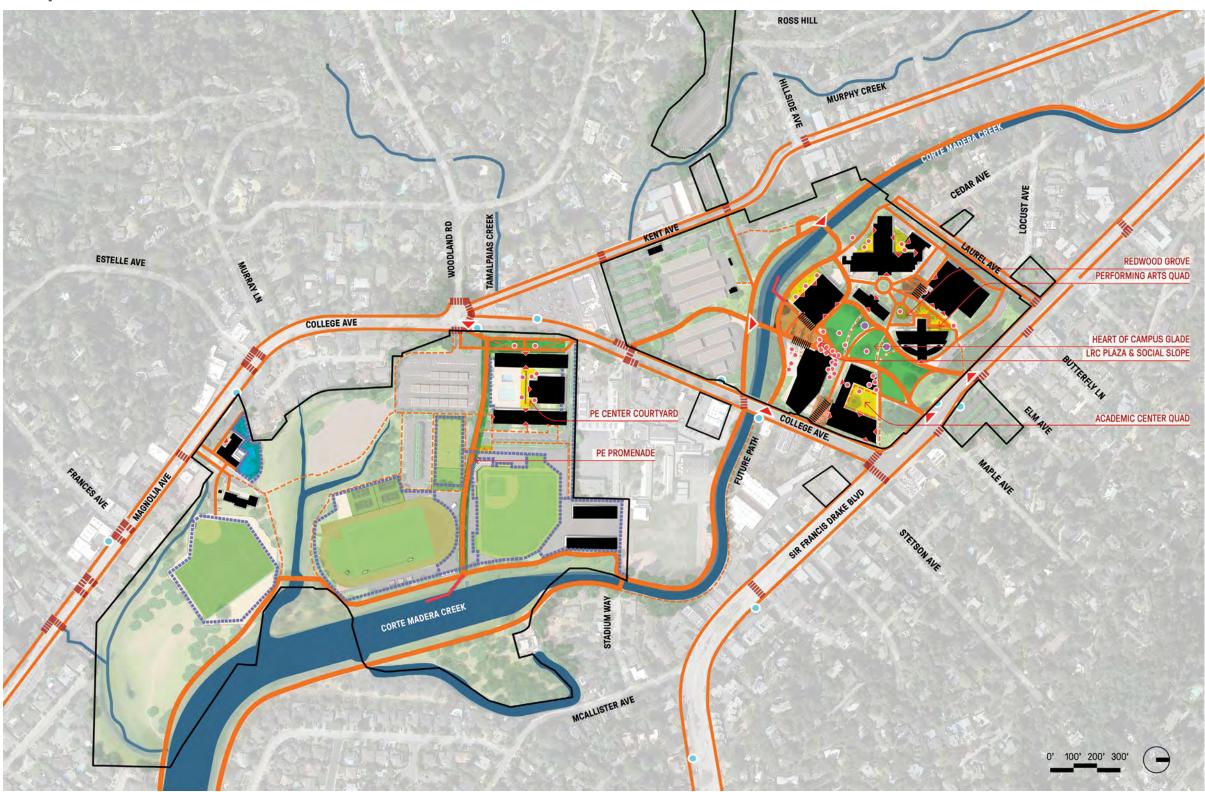
IIIIII Stairs

Sports Fields

Fenced Kids Play Area

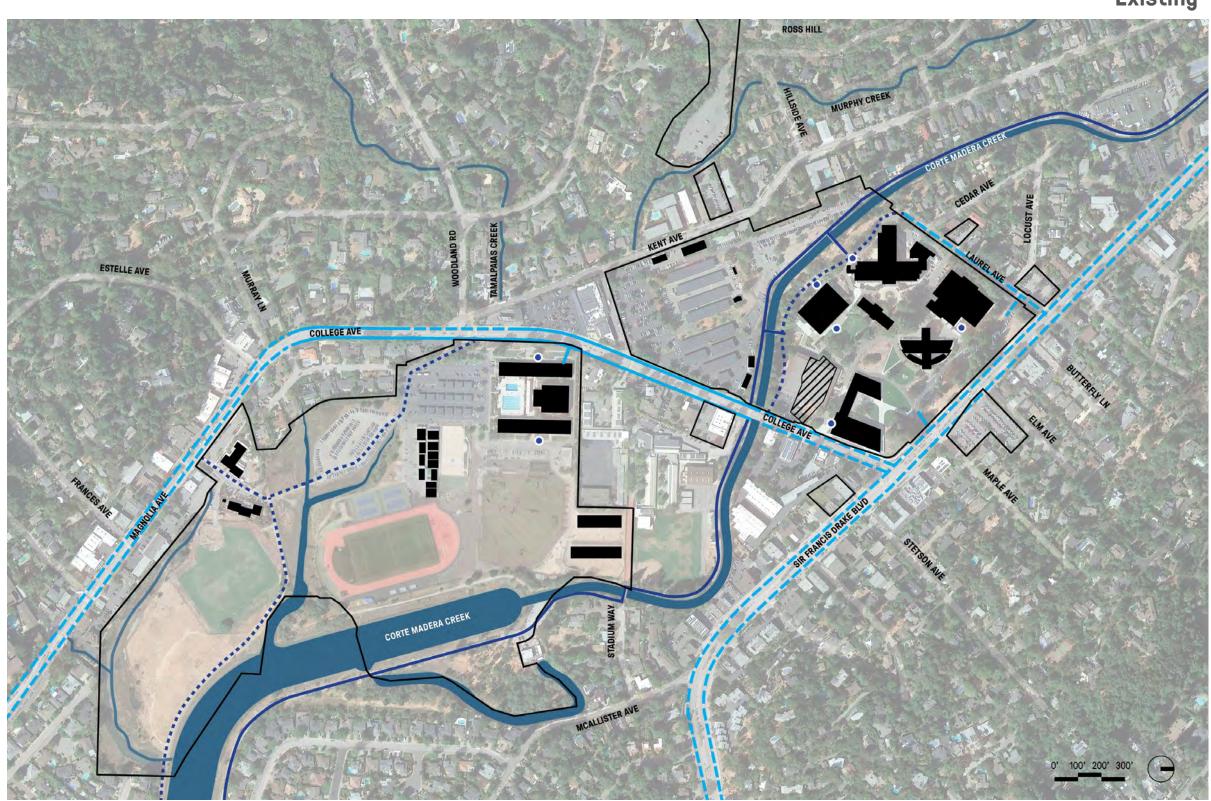
## Walking & Outdoor People Spaces

#### **Proposed**



The Landscape Master Plan extends and enhances the campus core's vehicle-free area and network of walks and people spaces throughout the campus, to enhance the walkability of campus and encourage students, faculty and staff to linger on Proposed initiatives include ending Circle Drive at the Glade, eliminating the drive crossing the Creekside Arrival, extending landscaped paths to most parking lots and to the Physical Education Complex, and creating a shaded promenade within the Physical Education Complex. An attractive new walking entrance from College Avenue into campus as well as a more attractive Social Slope from creek to Glade level is being created with the upcoming Learning Resources Center.

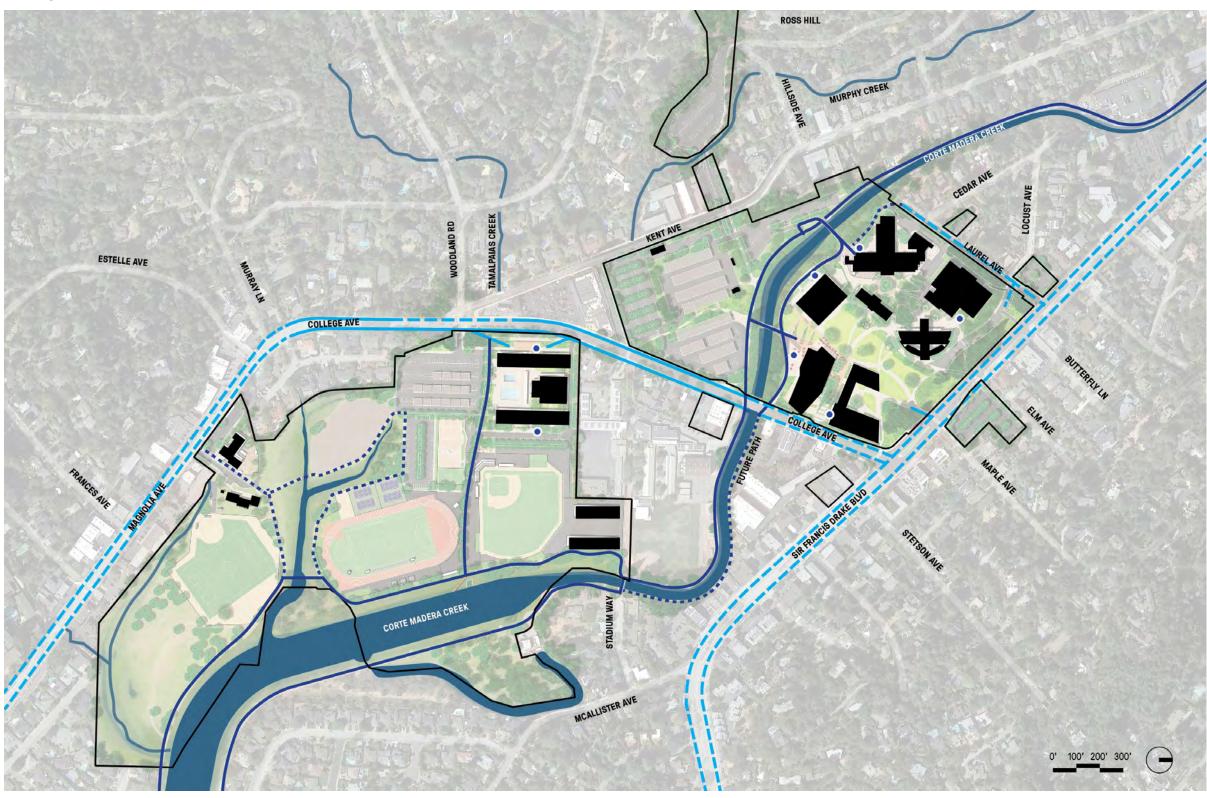
Crosswalks are added at campus desire lines on Sir Francis Drake, on Kent and on College. In addition, regional paths between the Campus Core and Physical Education Complex along Corte Madera Creek are shown completed, consistent with creek flood and habitat enhancements planned by others.



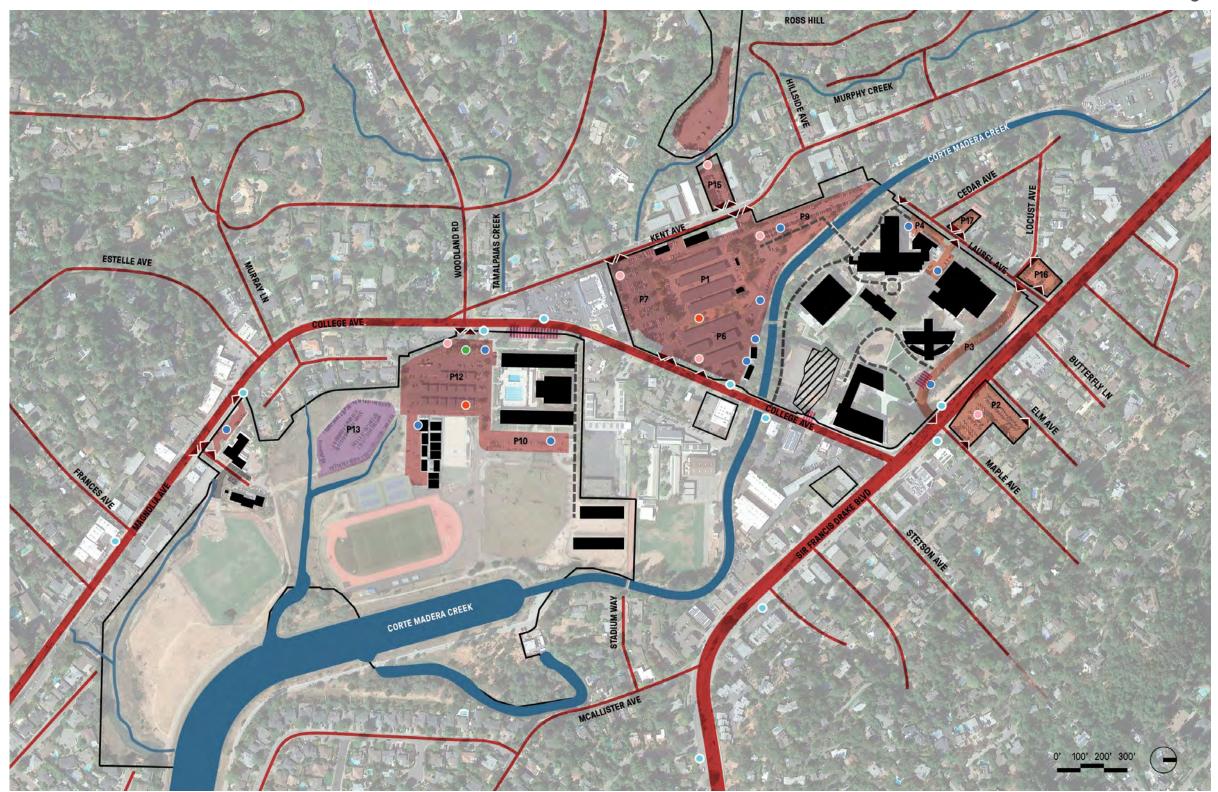
Bike Path, Off-Street
Bike Lane, On-Street
Biking in Mixed Traffic
Informal Route
Bike Parking

## **Bicycles & Micromobility**

#### **Proposed**



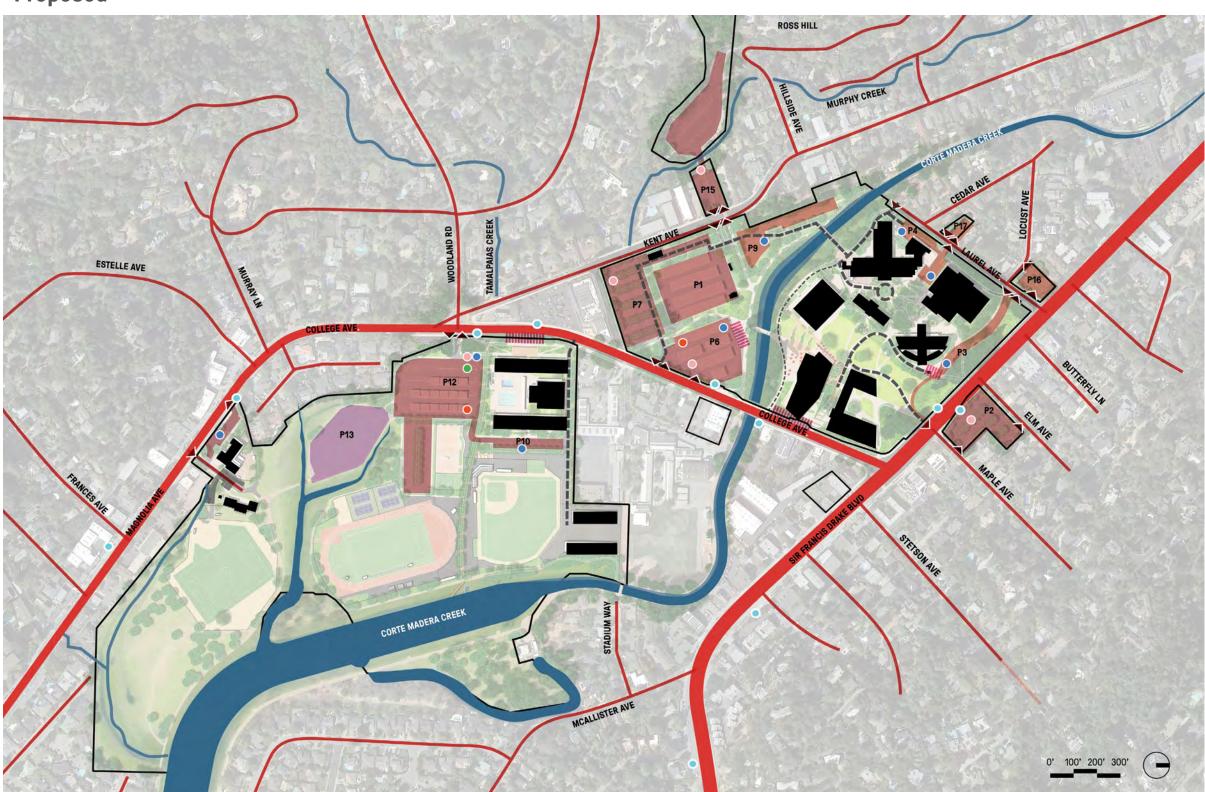
The Landscape Master Plan enhances the attractiveness for students, faculty and staff to bike and use other micromobility ebikes, escooters, etc - to access campus, especially as an alternative to driving. Proposed initiatives include facilitating a regional path along the north side of Corte Madera Creek in the Campus Core as well as completing gaps in the Corte Madera Creek path along the Physical Education Complex, consistent with creek flood and habitat enhancements planned by the County and Friends of the Corte Madera Creek Watershed. Convenient, visible bike and micromobility parking will be provided near building entrances. Adding an outdoor bike pump and repair station will further support use of bicycles and other micromobility.



- Primary Streets
  Secondary Streets
  Campus Service/ Emergency
  Bus Stop
  Tentrance and Exit to Parking
- Permit General Parking
  Permit Staff Parking
  Free Parking
  Other Parking
- Accessible Parking
   Matawayala Payling
- Motorcycle Parking
- Electric Charging Stations
- Ticket Dispensing Machine

## **Vehicles & Parking**

#### **Proposed**



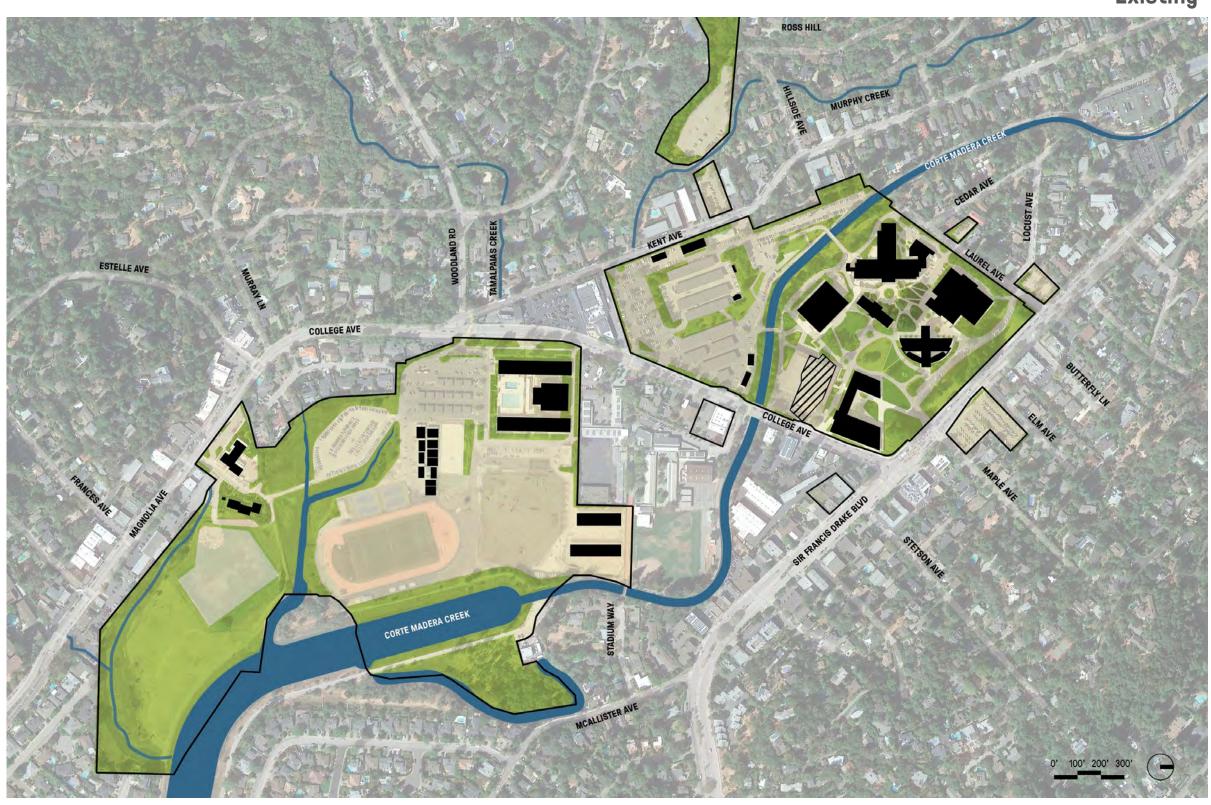
Regional driving access to campus is via Sir Francis Drake and College Avenue, with most parking for the Campus Core and all parking for the Physical Education Complex accessed from College Avenue. Additional parking for the Campus Core is accessed from Kent Avenue as well as Laurel and Maple Avenues. Dropoffs are located along Circle Drive, along College Avenue at the stairs and at the Physical Education Center, and in Lot P6 near the bridge.

Marin Transit bus routes 22, 29, 122 and 228 provide service at four pairs of stops along campus along Sir Francis Drake and College Avenue/Magnolia Avenue.

Centralized receiving occurs at Maintenance & Operations. Campus service and emergency access is available via wider campus walks. To extent possible, service access should occur mornings before classes and route via the campus perimeter.

Landscape Master Plan initiatives include:

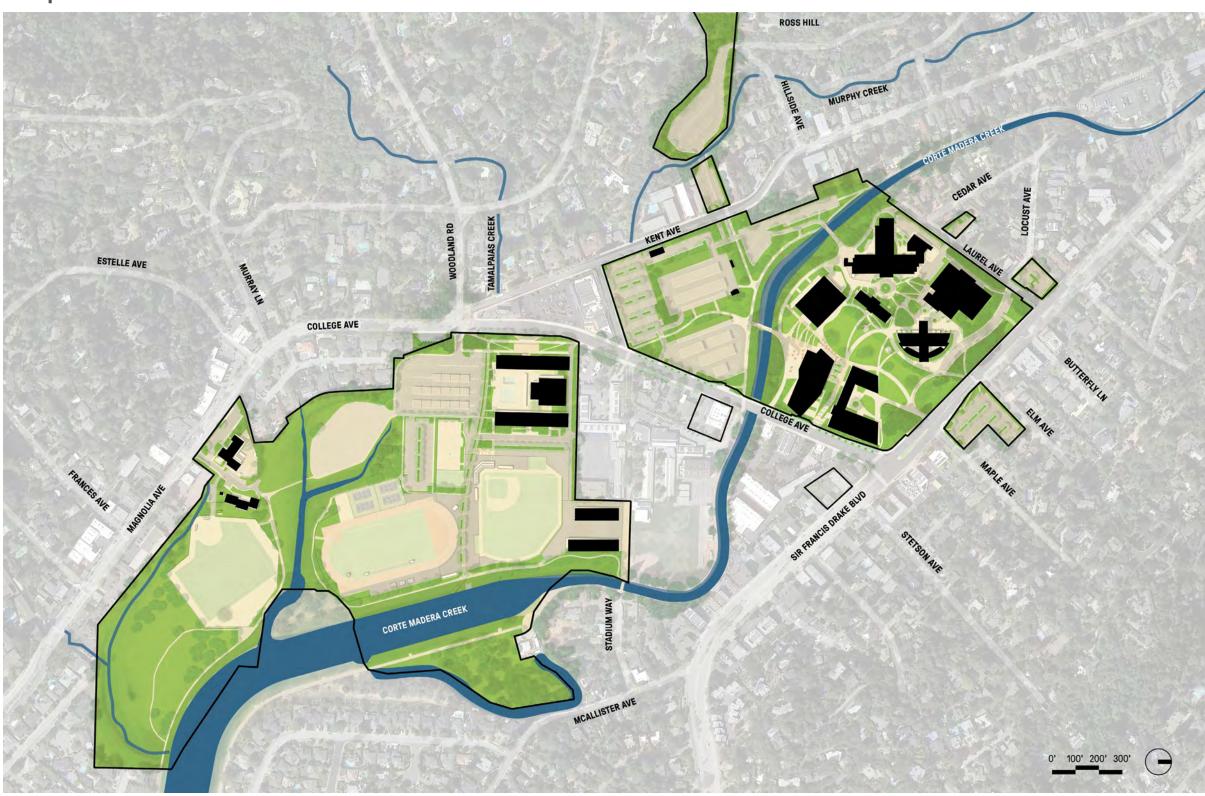
- Optimizing parking through consolidated, better defined and more efficient layouts
- Shifting Circle Drive parking out of the Glade
- Simplifying the layout and enhance the arrival experience for the creekside arrival dropoff in Lot P6
- Naming student parking areas with placebased names, for example College Ave Lot
- Adding canopy trees and/or more photovoltaic panels to increase shading of people, cars, and paving



Vegetation Hardscape

## **Vegetation & Hardscape**

#### **Proposed**



The Kentfield Campus' Campus Core includes a park-like academic core with buildings, walks and vegetation, encircled by predominantly paved areas for parking. The Physical Education Complex includes buildings, paved parking and synthetic turf fields surrounded by naturalized vegetated areas. The isolated campus land east of Corte Madera Creek serves as a vegetated Ecological Study Area.

The Landscape Master Plan increases vegetation coverage and reduces paving coverage by pursuing shown efficient consolidated layouts for walks, drives and parking as well as continuing to cluster buildings and eliminate portables. Also shown is an expansion of the Corte Madera Creek corridor which can accommodate creek flood and habitat enhancements planned by the County and Friends of the Corte Madera Creek Watershed.

## **Vegetation Inventory: Trees**

The Kentfield Campus includes 860 trees with trunks 6" diameter or greater, of about 100 species, as inventoried by Marin arborists Urban Forestry Associates. 635 of these trees were tagged, and an additional 225 trees at the campus' west and east periphery (slopes surrounding parking lot P15 west of Kent Avenue and the Ecological Study Area east of Corte Madera Creek) were inventoried but not tagged. Campus trees include iconic Marin native species such as Coast Redwoods, Coast Live Oak, and Valley Oak, as well as introduced species such as Ash and Japanese Maples. Dozens of additional tree species are represented by a few specimens, comprising a modest arboretum used by the College's courses. Overall, the campus' trees are twothirds Marin native species and one-third introduced. The tree inventory is available in GIS and on the associated matrix on the following pages as a campus planning and design tool as well as a teaching resource. A list of plant species used by the College's courses is provided later in the report.



Tree Number	Species	Diameter (inches) Native of Introdu	
11	Coast Redwood	26	N
12	Coast Redwood	45	N
13	Coast Redwood	26	N
14	Coast Redwood	36	N
15	Coast Redwood	42	N
16	Coast Redwood	48	N
17	Coast Redwood	20	N
18	Coast Redwood	26	N
19	Coast Redwood	42	N
20	Coast Redwood	42	N
22	Coast Redwood	42	N
23	Coast Redwood	38	N
24	Coast Redwood	77	N
25	Coast Redwood	44	N
26	Valley Oak	38	N
34	Giant Sequoia	76	I
40	Port Orford Cedar	48	I
41	cf. Leyland Cypress	48	I
42	Coast Live Oak	10	N
44	English Holly	12	I
45	Northern White Cedar	Multiple stems 2-6"	I
46	Northern White Cedar	Multiple stems 2-6"	I
47	Incense Cedar	72	N
48	Coast Redwood	62	N
49	Zelkova	52	I
52	Coast Redwood	66	N
53	Coast Redwood	38	N
54	Coast Redwood	52	N
55	Coast Redwood	42	N
56	Coast Redwood	56	N
57	Valley Oak	28	N
58	Coast Redwood	24	N
59	Coast Redwood	30	N
61	Coast Redwood	38	N
62	Coast Redwood	20	N
63	Coast Redwood	25	N
64	Coast Redwood	37	N
65	Coast Redwood	23	N
66	Coast Redwood	48	N
67	Coast Redwood	36	N
68	Coast Redwood	30 18	N
69	Coast Redwood	38	N
78	Linden	12	I
79	Coast Redwood	24	N
92	Coast Redwood	26	N

93	Coast Redwood	27	N
94	Coast Redwood	38	N
95	Coast Redwood	53	N
96	Coast Redwood	46	N
97	Coast Redwood	43	N
98	Coast Redwood	33	N
99	Coast Live Oak	25	N
101	European Beech	48	I
102	Pin oak	20	I
103	Coast Live Oak	12	N
104	Coast Live Oak	97	N
105	Coast Live Oak	12	N
122	Mimosa	14	I
123	Coast Redwood	46	N
124	Coast Redwood	54	N
124	Coast Redwood	48	N
	Coast Redwood  Coast Redwood		N
126		60	
127	Coast Redwood	62	N
129	Coast Redwood	38	N
130	Coast Redwood	22	N
131	Coast Redwood	24	N
132	Coast Redwood	52	N
133	Coast Redwood	10	N
135	Coast Redwood	17	N
137	Coast Redwood	40	N
138	Coast Redwood	26	N
139	Coast Redwood	41	N
141	Coast Redwood	17	N
142	Coast Redwood	21	N
144	Loquat	10 10 9	I
145	Loquat	865	I
146	Loquat	14 12 10	I
147	Port Orford Cedar	29	I
149	Ginko	17	I
150	Liquidamber	24	I
153	Big Leaf Maple	43	N
155	Camphor	20	I
156	Chestnut	20	I
157	Bald Cypress	14	I
159	Coast Redwood	11	N
160	Coast Redwood	8	N
161	Coast Redwood	16	N
162	Coast Redwood	24	N
163	Coast Redwood	25	N
164	Coast Redwood	7	N
165	Coast Redwood	13	N
166	Coast Redwood	33	N

167	Coast Redwood	30	N
168	Coast Redwood	34	N
169	Coast Redwood	25	N
170	Coast Redwood	47	N
171	Coast Redwood	38	N
172	Coast Redwood	15	N
173	English Oak	28	I
174	English Oak	31	I
175	English Oak	28	I
176	Coast Redwood	26	N
177	Incense Cedar	12	N
178	Coast Redwood	15	N
179	Prunus ilicifolia	8 3	N
181	Coast Redwood	20	N
182	Coast Redwood	34	N
184	Coast Redwood	25	N
185	Coast Redwood	12	N
186	Coast Redwood	23	N
187	Coast Redwood	22	N
188	Coast Redwood	30	N
189	Coast Redwood	24	N
190	Coast Redwood	22	N
191	Coast Redwood	30	N
192	Coast Redwood	9	N
193	Coast Redwood	9	N
194	Coast Redwood	8	N
195	Coast Redwood	8	N
196	Coast Redwood	7	N
209	Persimmon	96	I
211	Coast Redwood	35	N
212	Coast Redwood	42	N
214	Coast Redwood	27	N
224	Coast Redwood	15	N
226	Coast Redwood	15	N
227	Incense Cedar	21	N
229	Coast Redwood	28 28	N
230	Coast Redwood	24 20	N
231	Privet	6 4	I
232	Privet	877	I
233	Coast Live Oak	9	N
234	Coast Live Oak	17	N
237	Southern Magnolia	7	I
238	Coast Redwood	38	N
244	Coast Redwood	44	N
253	Coast Redwood	29	N
257	Coast Redwood	18 16 16	N
258	Coast Redwood	20	N

239	Cherry Laurei	б	1
261	Cherry Laurel	6	I
263	Cherry Laurel	6	I
265	Coast Redwood	38	N
267	Coast Redwood	23	N
268	Coast Redwood	12 12 12	N
269	Coast Redwood	17	N
270	Coast Redwood	18	N
271	Coast Redwood	33	N
273	Coast Redwood	36 32 17	N
274	Coast Redwood	30	N
275	Coast Redwood	26	N
276	Coast Redwood	18 15 15	N
277	Coast Redwood	32	N
278	Coast Redwood	15	N
279	Coast Redwood	22	N
280	Coast Redwood	37	N
281	Coast Redwood	6	N
282	Coast Redwood	6	N
283	Coast Redwood	7	N
284	Coast Redwood	6	N
285	Coast Redwood	6	N
286	Zelkova	20	I
287	Southern Magnolia	12	I
288	Bunya bunya	21	I
289	Canary Island Palm	48	I
290	Ash sp.	10	N/I
291	Valley Oak	6 4	N
292	Coast Live Oak	22 20	N
293	Valley Oak	14 12	N
295	Giant Sequoia	58	I
296	Coast Redwood	32	N
297	Giant Sequoia	52	I
302	Ash sp.	30	N/I
303	Coast Live Oak	17 13	N
304	Coast Live Oak	32	N
305	Deodar Cedar	28	I
309	Linden	21	I
317	Coast Live Oak	10	N
318	Valley Oak	11	N
319	Catalpa	30	I
320	Sweetshade	15	I
322	Coast Redwood	42	N
323	Sweetshade	11	I
324	Coast Redwood	64	N
328	English Walnut	27	I
335	Coast Redwood	36	N

338	Coast Live Oak	30	N
340	Hackberry	14	I
341	Japanese pagoda	20	I
342	Canary Island Palm	42	I
350	Honey locust	16	I
353	Coast Redwood	28	N
355	Dawn Redwood	12	I
363	Chinese arborvitae	7 5 5	I
364	Southern Magnolia	9	I
366	Olive	986	I
370	Ash sp.	32	N/I
371	Ash sp.	22	N/I
371 A	Ash sp.	21	N/I
372	Ash sp.	24	N/I
374	Ash sp.	22	N/I
375	Ash sp.	26	N/I
376	Ash sp.	7	N/I
376 A	Ash sp.	26	N/I
377	Ash sp.	40	N/I
380	Ash sp.	10	N/I
381	Olive	10 9	I
382	Ash sp.	12	N/I
384	Ash sp.	21	N/I
385	Coast Redwood	30	N
386	Ash sp.	12	N/I
387	Black Oak	11	N
393	Coast Live Oak	29	N
394	Valley Oak	18	N
404	English Oak	36	I
410	Coast Redwood	44	N
414	Japanese Maple	14 13 10	I
426	Coast Live Oak	45	N
446	Ash sp.	20	N/I
447	Camphor	20	I
448	Tulip Tree	16	I
449	Incense Cedar	13	N
450	Ash sp.	22	N/I
451	Camphor	34	I
458	Elm	22	I
459	Elm	26	I
460	Elm	26	I
461	Coast Live Oak	9	N
462	Coast Live Oak	6 4	N
463	Ash sp.	18	N/I
464	Tree of Heaven	643	I
465	Elm	6	I
467	Chinese elm	7	I

468	Monterey Cypress	33	N
469	Loquat	11	I
472	Southern Magnolia	21	I
473	Ash sp.	20	N/I
476	Elm	40	Ι
477	Loquat	14	Ι
479	Linden	14	I
480	Southern Magnolia	20	I
487	European olive	888	I
488	European olive	988	Ι
489	Brazilian pepper	888	I
497	Saucer Magnolia	96	I
498	Magnolia	24	Ι
499	Magnolia	20	I
500	Aleppo Pine	26	I
502	Coast Live Oak	19	N
503	Coast Live Oak	18	N
509	Privet	774	I
511	Elm Cork	11	I
512	Catalina ironwood	15	N
514	Elm Cork	18	I
522	Ash sp.	16	N/I
524	Ash sp.	14	N/I
524 A	Ash sp.	14	N/I
525	Bottle brush	14	I
526	Chinese elm	15 14	I
527	European olive	10 10 8	I
528	Ginko	9	I
531	Canary Island Palm	38	I
540	Coast Live Oak	12	N
542	Coast Live Oak	16	N
542 A	Coast Live Oak	14	N
548 A	Coast Live Oak	16	N
548 B	Valley Oak	26	N
549	Valley Oak	16 8	N
568	Callery Pear	7 6	I
570	Cherry Laurel	19	Ι
572	Nor Cal Walnut	10 9	N
574	California bay	28 10 9	N
575	California bay	28 22 18	N
576	Coast Live Oak	16 13	N
586	Catalina ironwood	13 11 11	N
592	Douglas Fir	16	N
593	Willow	20	N/I
595	Incense Cedar	24	N

596	Coast Live Oak	16	N
597	Incense Cedar	26	N
598	Blackwood Acacia	7 6 4	Ι
601	Coast Redwood	28	N
603	Coast Live Oak	12	N
603 A	Peruvian pepper	12	I
604	Coast Live Oak	12	N
605	Plum sp.	98	I
607	Incense Cedar	22	N
2602	Coast Live Oak	9	N
2603	Coast Live Oak	8	N
2604	Coast Live Oak	7 5	N
2605	Coast Live Oak	17	N
2606	Chinese tallow	6	I
2607	Coast Redwood	52 34	N
2608	Coast Redwood	30	N
2609	Coast Redwood	46 21	N
2610	Coast Live Oak	9	N
2611	Coast Redwood	6	N
2612	Coast Redwood	7	N
2613	Coast Redwood	7	N
2614	Coast Redwood	7	N
2615	Coast Redwood	6	N
2616	Coast Redwood	7	N
2617	Coast Redwood	7	N
2618	Coast Redwood	6	N
2619	Coast Redwood	6	N
2620	Coast Redwood	22	N
2621	Black Locust	6	I
2622	Pittosporum	6 4	Ι
2623	Coast Redwood	6	N
2624	Olive	7 3	I
2625	Japanese Maple	6 4 4	I
2626	Japanese Maple	9	I
2627	Japanese Maple	10 8 8	I
2628	Crape Myrtle	7	I
2629	Loquat	10 9 8	I
2630	Japanese Maple	755	I
2631	Flowering cherry	9	I
2632	Corkscrew Willow	49	I
2633	Nor Cal Walnut	6	N
2634	Coast Live Oak	98	N
2635	Scarlet oak	36	I
2636	Canary Island Palm	36	Ι
2637	California bay	8	N

2638	California bay	15	N
2639	Valley Oak	28	N
2640	Coast Live Oak	776	N
2641	Catalpa	17	I
2642	Coast Live Oak	12	N
2643	Coast Live Oak	6	N
2644	Oregon Ash	19	N
2645	Zelcova	12	I
2646	Oregon Ash	19	N
2647	Oregon Ash	17	N
2648	Oregon Ash	10	N
2649	Coast Live Oak	21	N
2650	California bay	12	N
2651	Incense Cedar	28 14	N
2652	Pin oak	25 20	I
2653	Crabapple	8	I
2654	Coast Live Oak	12 11	N
2655	Canary Island Palm	48	I
2656	Privet	6 4	I
2657	Liquidamber	14	I
2658	Coast Live Oak	76	N
2659	Valley Oak	7 5	N
2660	Japanese Maple	999	I
2661	Japanese Maple	665	I
2662	Coast Redwood	48	N
2663	Evergreen pear	7	I
2664	Evergreen pear	9	I
2665	Valley Oak	66	N
2666	Valley Oak	9	N
2667	Coast Live Oak	86	N
2668	Bunya bunya	13	I
2669	Coast Live Oak	10	N
2670	Coast Live Oak	22	N
2671	Coast Live Oak	13 9	N
2672	Coast Redwood	34 25	N
2672 A	Valley Oak	29 27	N
2673	California Buckeye	665	N
2674	Cork Oak	6	I
2675	Coast Live Oak	14	N
2676	Chinese Pistache	7	I
2677	Chinese Pistache	7	I
2678	Carolina cherry	6 5 4	I
2680	Canary Island Palm	42	I
2681	Coast Live Oak	14	N
2682	Canary Island Palm	40	I

		******		
	2684	Canary Island Palm	40	I
	2685	Coast Live Oak	6	N
	2686	Coast Live Oak	11 4	N
	2687	Coast Live Oak	15	N
	2688	Coast Live Oak	9	N
	2689	Box Elder	76	N
	2690	Elm	19 18 16	I
	2691	California bay	7	N
	2692	Privet	12 11 10	I
	2693	Valley Oak	36	N
	2694	Camphor	20 16 11	I
	2695	Melaleuca	12 12 10	I
	2696	Coast Live Oak	11 10 9	N
İ	2701	Camphor	32	I
İ	2702	Camphor	19	I
İ	2703	Liquidamber	12	I
İ	2704	Liquidamber	11	I
İ	2705	Liquidamber	10	I
İ	2706	Liquidamber	11	I
İ	2708	Coast Live Oak	12	N
İ	2709	Cypress	17 8	I
	2710	Cypress	13	I
	2711	Purple Leaf Plum	12	I
	2712	Coast Redwood	19	N
l	2713	Coast Redwood	19	N
	2714	Coast Redwood	17	N
	2715	Coast Redwood	14	N
	2716	Coast Redwood	32	N
	2717	Coast Redwood	10	N
	2718	Coast Redwood	12 5	N
	2719	Coast Redwood	15 14	N
	2720	Coast Redwood	7 3	N
	2721	Coast Redwood	11	N
	2722	Coast Redwood	28	N
	2723	Coast Redwood	19	N
	2724	Black Oak	5	N
	2725	Ash sp.	8	N/I
	2726	Camphor	6	I
	2727	Linden	11	I
	2728	Linden	10	I
	2729	Linden	13	I
	2730	Linden	8	I
	2731	Camphor	6	I
	2732	Ash sp.	11	N/I

2683 Coast Live Oak

2733	Black Oak	3	N
2734	Camphor	12	I
2735	Ash sp.	11	N/I
2736	Camphor	6	I
2737	Privet	76	I
2738	Camphor	24	I
2739	Camphor	18	I
2740	Ash sp.	14	N/I
2741	Camphor	6	I
2742	cf. Willow pittosporum	776	I
2743	Ash sp.	9	N/I
2744	Ash sp.	26	N/I
2745	Ash sp.	10	N/I
2746	Callery Pear	6	I
2747	Coast Live Oak	11	N
2748	Coast Live Oak	8 5	N
2749	African sumac	776	I
2750	Poplar sp.	60	N/I
2751	Goldenrain tree	9	I
2752	Coast Live Oak	1199	N
2753	Coast Live Oak	28	N
2754	London Plane	21	I
2755	London Plane	20	I
2756	London Plane	21	I
2757	Ash sp.	23	N/I
2758	Ash sp.	20	N/I
2759	Loquat	14	I
2760	Incense Cedar	6	N
2761	Southern Magnolia	7	I
2762	Linden	12	I
2763	Aleppo Pine	26	I
2764	Elm Cork	7 3	I
2765	Elm Cork	7	I
2766	Elm Cork	8	I
2767	Elm Cork	7	I
2768	Coast Live Oak	7	N
2769	Coast Live Oak	7	N
2770	Oregon Ash	6 4	N
2771	Oregon Ash	7	N
2772	Oregon Ash	13 11	N
2773	Chinese Pistache	8	I
2774	Bottle brush	8	I
2775	Bottle brush	6	I
2776	Ginko	12	I
2777	Ginko	9	I

2778	European olive	765	I
2779	European olive	77	I
2780	European olive	10 9	I
2781	Coast Live Oak	11 11	N
2782	European olive	6 5	I
2783	Valley Oak	10	N
2784	Valley Oak	7	N
2785	Aleppo Pine	7	I
2786	Brazilian pepper	666	I
2787	live oak	9	N
2788	live oak	4 4 4	I
2789	Chinese arborvitae	7 3 3	I
2790	California sycamore	6	N
2791	California sycamore	6	N
2792	California sycamore	8	N
2793	California sycamore	8	N
2794	White alder	10	N
2795	White alder	8	N
2796	California sycamore	7	N
2797	California sycamore	7	N
2798	Valley Oak	6	N
2799	Chinese Pistache	10	I
2800	Chinese Pistache	11	I
2801	Coast Live Oak	8 5	N
2802	Catalina ironwood	6	N
2803	Catalina ironwood	15 10 8	N
2804	Japanese Maple	9	I
2805	Coast Live Oak	14	N
2806	Coast Live Oak	8	N
2807	Coast Live Oak	10	N
2808	Coast Live Oak	11	N
2809	Coast Redwood	30	N
2810	Coast Redwood	30	N
2811	Coast Redwood	17	N
2812	Coast Redwood	19	N
2813	Coast Redwood	18	N
2814	Coast Redwood	22	N
2815	Coast Redwood	23	N
2816	Coast Redwood	24	N
2817	Coast Redwood	34	N
2818	Coast Redwood	6	N
2819	Coast Redwood	34	N
2820	Coast Redwood	13	N
2821	Coast Redwood	22	N
2822	Coast Redwood	24	N

2823	Coast Redwood	30	N
2824	Coast Redwood	23	N
2825	Coast Redwood	19	N
2826	Coast Redwood	6 6	N
2827	Coast Redwood	34	N
2828	Coast Redwood	42	N
2829	Coast Redwood	30 13	N
2830	Ash sp.	9	N/I
2831	Ash sp.	10	N/I
2832	Chinese elm	6	I
2833	Purple Leaf Plum	8	I
2834	Chinese Pistache	6	I
2835	Valley Oak	12	N
2836	Purple Leaf Plum	6	I
2837	Purple Leaf Plum	5	I
2838	Purple Leaf Plum	7	I
2839	African sumac	6.5	I
2840	Valley Oak	9	N
2841	Eucalyptus (cf manna)	55	I
2842	Valley Oak	12	N
2843	Monterey Pine	20	N
2844	Monterey Pine	20	N
2845	Silver dollar gum	26	I
2846	Silver dollar gum	22 13	I
2847	Silver dollar gum	12	I
2848	Silver dollar gum	15	I
2849	Coast Redwood	14	N
2850	Coast Redwood	16	N
2851	Liquidamber	8	I
2852	Plum sp.	8	I
2853	Green wattle	12	I
2854	Green wattle	14	I
2855	Valley Oak	8	N
2856	Green wattle	66	I
2857	Green wattle	16	I
2858	Green wattle	9	I
2859	Valley Oak	8	N
2860	Green wattle	11	I
2861	Valley Oak	8	N
2862	Valley Oak	10	N
2863	Plum sp.	6	I
2864	Coast Live Oak	8	N
2865	Italian Stone Pine	18	I
2866	Green wattle	19	I
2867	+	22	N
200/	Monterey Cypress	44	11/1

2060	Vallen Oals	12	l N
2868	Valley Oak	12	N
2869	Valley Oak	10	N
2870	Plum sp.	12	I
2871	Apple	8	I
2872	Coast Live Oak	8	N
2873	Silver maple	26	I
2874	Canary Island Palm	40	I
2875	Canary Island Palm	42	I
2876	Canary Island Palm	36	I
2877	Mulberry	10	I
2878	Mulberry	14	I
2879	Elm Chinese	7 4	I
2880	Valley Oak	6	N
2881	Coast Live Oak	6	N
2882	Green wattle	34	I
2883	Green wattle	8	I
2884	Coast Live Oak	6	N
2885	Coast Live Oak	76	N
2886	Coast Live Oak	16	N
2887	Coast Live Oak	11	N
2888	Coast Live Oak	7	N
2889	Coast Live Oak	9	N
2890	Valley Oak	18	N
2891	Coast Live Oak	11	N
2892	Coast Live Oak	13	N
2893	Coast Live Oak	12	N
2894	Coast Live Oak	10	N
2895	Coast Live Oak	7	N
2896	Coast Live Oak	13 8	N
2897	Coast Live Oak	14	N
2898	Coast Live Oak	14	N
2899	Coast Live Oak	20	N
2900	Coast Live Oak	7	N
2901	Coast Live Oak	8	N
2902	Green wattle	83	I
2903	Valley Oak	7	N
2904	Coast Live Oak	10	N
2905	Nor Cal Walnut	8.5	N
2906	Purple Leaf Plum	7	I
2907	Plum sp.	7	I
2908	Coast Live Oak	7	N
2909	Nor Cal Walnut	12 8 8	N
2910	Green wattle	7	I
2911	Box Elder	8	N
2912	Coast Live Oak	8	N
2712	Coust Live Oak	٠	

2913	Coast Live Oak	6	N
2914	Coast Live Oak	6 4	N
2915	Coast Live Oak	6	N
2916	Coast Live Oak	13	N
2917	Coast Live Oak	18 7	N
2918	Coast Live Oak	6	N
2919	Coast Live Oak	12 8	N
2920	Valley Oak	6.5	N
2921	Valley Oak	10	N
2922	Canary Island Palm	30	I
2923	California Buckeye	6 4 4	N
2924	Valley Oak	7	N
2925	Canary Island Palm	10	I
2926	Red Ironbark Eucalyptus	10	I
2927	Canary Island Palm	40	I
2928	Mulberry	10	I
2929	Myoporum	876	I
2930	Myoporum	765	I
2931	Coast Live Oak	12 10	N
2932	Red Ironbark Eucalyptus	22 10	I
2933	Red River Gum	14 10	I
2934	Red River Gum	28	I
2935	Red River Gum	30	I
2936	Red River Gum	21 13	I
2937	Valley Oak	10	N
2938	Red River Gum	14 11	I
2939	Coast Live Oak	6	N
2940	Red River Gum	31	I
2941	Coast Live Oak	8	N
2942	Coast Live Oak	9	N
2943	Coast Live Oak	9	N
2944	Coast Live Oak	12	N
2945	Coast Live Oak	8	N
2946	Plum sp.	863	I
2947	Coast Live Oak	8 7	N
2948	Coast Live Oak	6	N
2949	Deodar Cedar	16	I
2950	Coast Live Oak	22 18	N
2951	Italian Stone Pine	13	I
2952	Privet	10 9 7	I
2954	Southern Magnolia	7	I
2955	Monterey Pine	10	N
2956	Coast Live Oak	11	N
2957	European Olive	1099	I

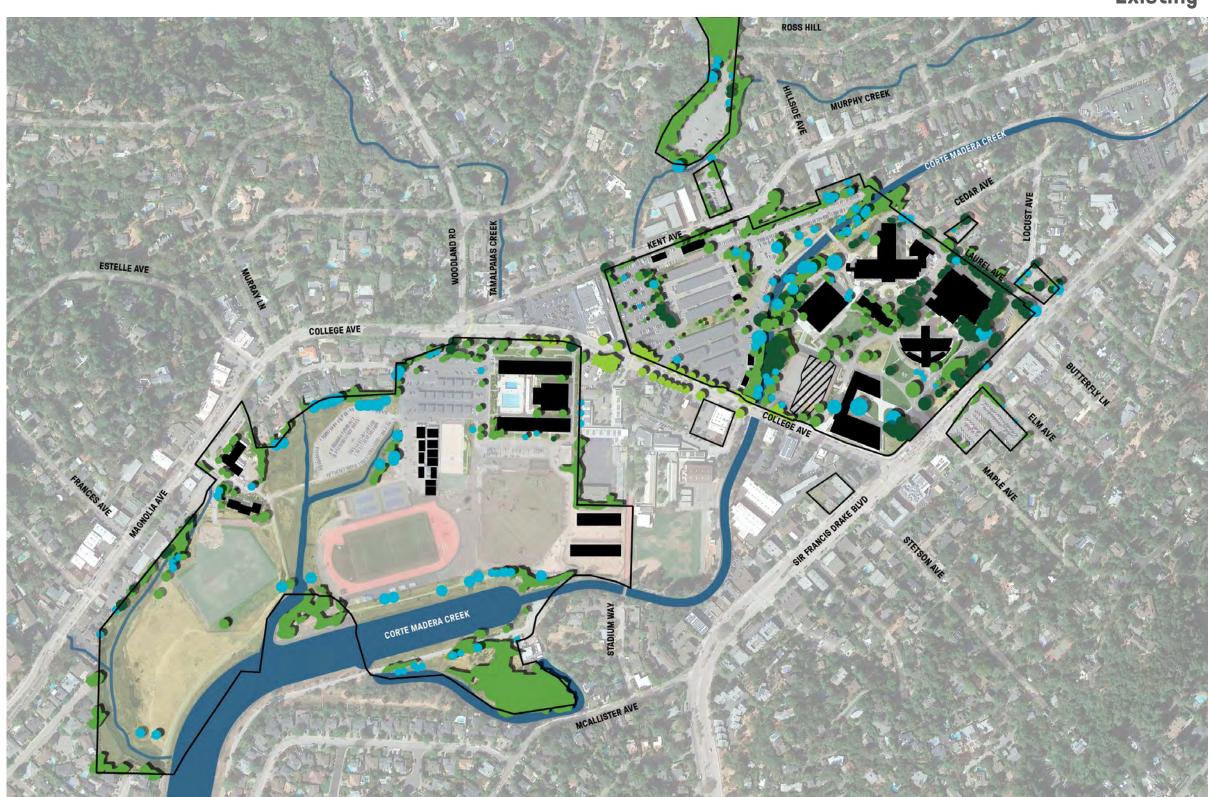
#### West Periphery: Slopes Surrounding Lot 15

Species	Quantity	Native or Introduced
California Bay	87	N
California Buckeye	1	N
Privet	3	I
Coast Live Oak	14	N
Willow	1	N
Plum	2	N/I
Black Oak	1	N
Valley Oak	9	N
Elm	6	I

#### East Periphery: Ecological Study Area

Species	Quantity	Native or Introduced
California Walnut	1	N
Valley Oak	21	N
Red River Gum	12*	I
Monterey Cpress	1	N
Boxelder	1	N
Silver Wattle	35*	I
Blackwood Acacia	7	I
Redwood	1	N
Coast Live Oak	17	N
California Bay	1	N
Elderberry	2	N
California Buckeye	5	N

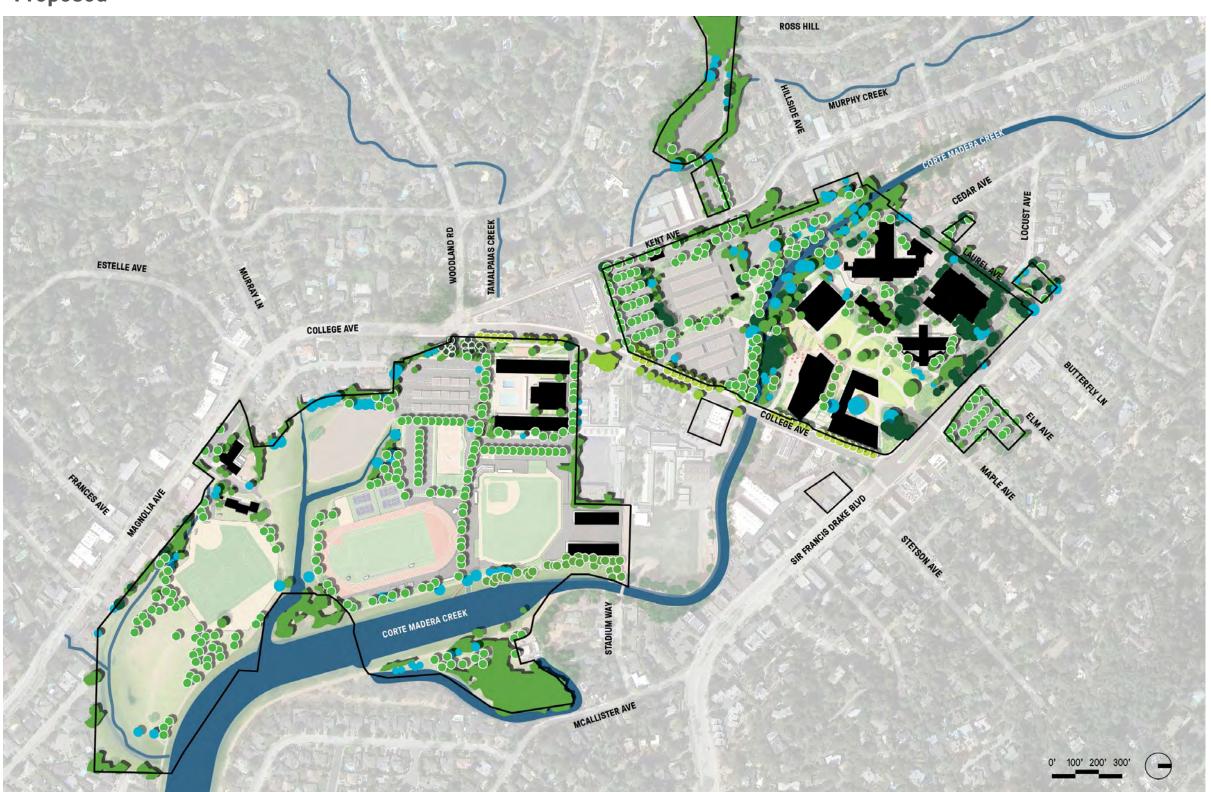
\*Updated estimate early 2021



- Existing Tall Evergreen Tree: **Redwoods And Other Conifers**
- Existing Canopy Tree: Coast
  Live Oaks And Deciduous Oaks
- Existing Canopy Tree: Non-Oaks
- Existing Deciduous Street Tree
  Proposed Tall Evergreen Tree:
- Redwoods and Other Conifers
- Proposed Canopy Tree
  Proposed Deciduous Street Tree

#### **Vegetation: Trees**

#### **Proposed**



From a design and experiential perspective, the campus is nestled into the lush treecovered Ross Valley. The campus core includes many large trees, creating a classic "campus park" college setting. The campus core is marked by groves of tall evergreen Coast Redwoods at the College Avenue & Sir Francis Drake corner and the Sir Francis Drake and Laurel Avenue frontages. Additional Coast Redwood groves are located at the stone barbeque between Fusselman Hall and Performing Arts as well as flanking the creekside arrival south of the upcoming Learning Resources Center. The heart of campus signature outdoor space includes predominantly deciduous trees, with a few tall conifers in the middle of the space and view to Mt Tam left over from when this space was further west.

The Landscape Master Plan shows additional tree planting over time to enhance and extend the campus park character of the campus core, better mark arrival points, better define outdoor spaces, add summer shade to new and existing walks and parking paving, and enhance the habitat and ecology of Corte Madera Creek. New trees would be predominantly Marin native species, per the Plant Palette later in the report. A longerterm initiative is to work with the County to re-envision College Avenue from the Kent Woodlands intersection to Sir Francis Drake with grand street trees.

# **Vegetation Inventory: Understory Planting**

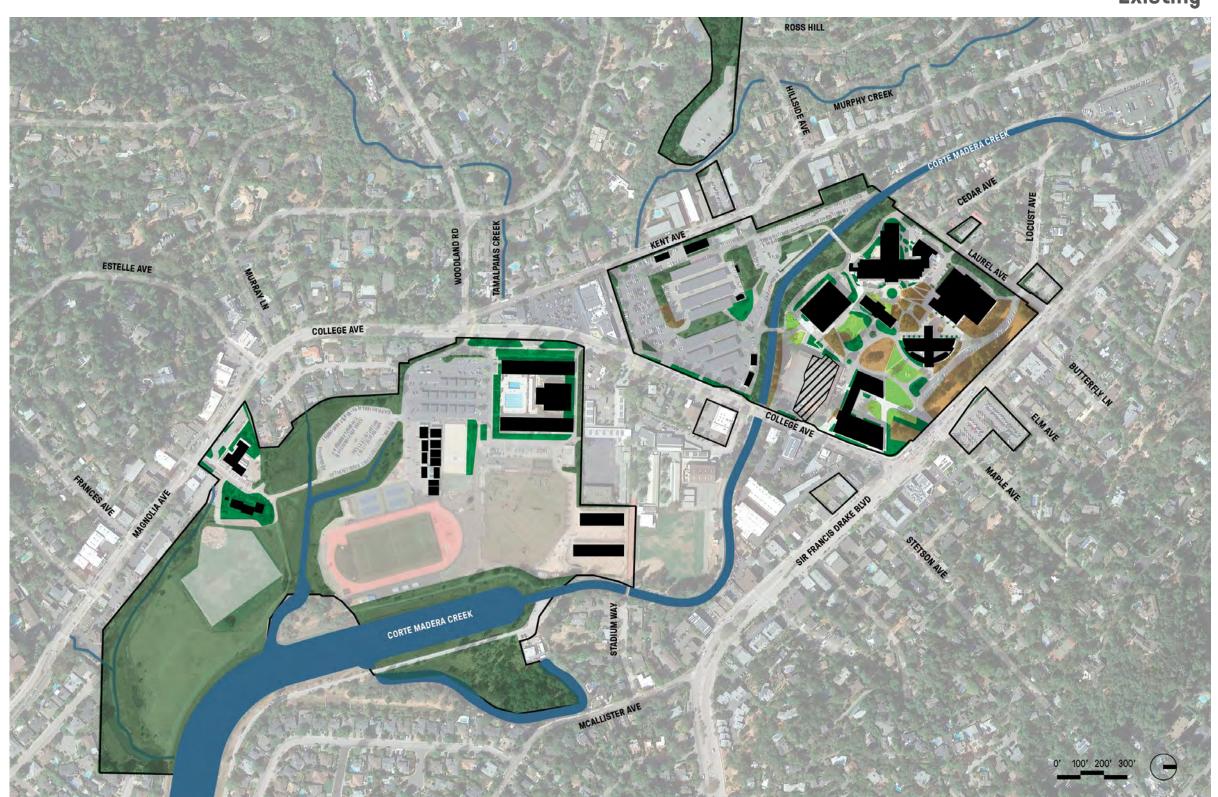
The Kentfield Campus includes over 100 species of understory plants, one-third of which are Marin native species and two-thirds introduced. The understory planting inventory is available in AutoCAD and on the associated matrix on the adjacent page as a campus planning and design tool as well as a teaching resource. A list of plant species used by the College's courses is provided later in the report.



Map #	Common Name	Latin Name	Native/ Introduced
1	Stinkwort	Dittrichia graveolens	I
2	Horseweed	Erigeron candensis	N
3	Himalayan blackberry	Rubus armeniacus	I
4	Salt grass	Distichlis spicata	N
5	Glasswort	Salicornia pacifica	N
6	Ivy	Hedera sp.	I
7	Sea Club rush	Bolboschoenus maritimus	N
8	Fennel	Foeniculum vulgare	I
9	Alkali heath	Frankenia salina	N
10	Saltmarsh cordgrass	Spartina alterniflora	I
11	Coyote brush	Baccharis pilularis	N
12	Sticky monkey flower	Diplacus aurantiacus	N
13	Chamise	Adenostoma fasciculatum	N
14	French broom	Genista monspessulana	I
15	California fuchsia	Epilobium canum	N
16	Deer grass	Muhlenbergia rigens	N
17	Escallonia	Escallonia sp.	N/I
18	Ceanothus	Ceanothus spp.	N
19	Willow	Salix spp.	N/I
20	Ice plant	Carpobrodus edulis	I
21	Cat tail	Typha latifolia	N
22	Green wattle	Acacia decurrens	I
23	Sedges	Carex spp.	N/I
24	Oleander	Nerium oleander	I
25	Birstly oxtongue	Helminthotheca echiodes	I
26	Irrigated grass		I
27	Plum	Prunus spp.	I
28	Vinca	Vinca minor	I
29	Creeping saltbush	Atriplex semibaccata	I
30	Rose	Rosa sp.	N/I
31	European olive	Olea europaea	I
32	Buckthorn	Rhamnus spp.	I
33	coast live oak	Quercus agrifolia	N
34	Toyon	Heteromeles arbutifolia	N

35	Mowed/Trampled/ Unirrigated grass and dirt		
36	Poplar sprouts	Poplus sp.	N/I
37	Lemonade berry	Rhus integrifolia	I
38	Pittosporum	Pittosporum sp.	I
40	Bottlebrush	Callistemon spp.	I
41	Mayten	Maytanus boaria	I
42	Privet	Ligustrum sp.	I
43	Japanese maple	Acer palmatum	I
44	Irrigated ornamentals		N/I
45	Tobira	Pittosporum tobira	I
46	Fruit tree	Prunus sp.	I
47	Pyracantha	Pyracantha	I
48	Oak	Quercus sp.	N
49	Holly oak	Quercus iliz	I
50	Cotoneaster	Cotoneaster spp.	I
51	Hollyleaf cherry	Prunus ilicifolia	N
52	Chinese pistache	Pistacia chinensis	I
53	Yucca	Yucca sp.	I
54	Arbutus	Arbutus ssp.	I
55	Blackwood acacia	Acacia melanoxylon	I
56	English holly	Ilex aquifolium	I
57	Mint	Mentha sp.	I
58	Knotweed	Persicaria sp.	N/I
59	Hawthorn	Crataegus spp.	N/I
60	Pride of Madeira	Echium candicans	I
61	California bay	Umbellularia californica	N
62	Catclaw vine	Dolichandra unguis-cati	I
63	crabapple	Malus spp.	I
64	Domestic apple	Malus domestica	I
65	Quince	Cydonia oblonga	I
66	River red gum	Eucalyptus camaldulensis	I
67	Cape honey flower	Melianthus major	I
68	Oregon ash	Fraxinus latifolia	N
69	baby sage	Salvia microphylla	I
70	Linden	Tilia spp.	I

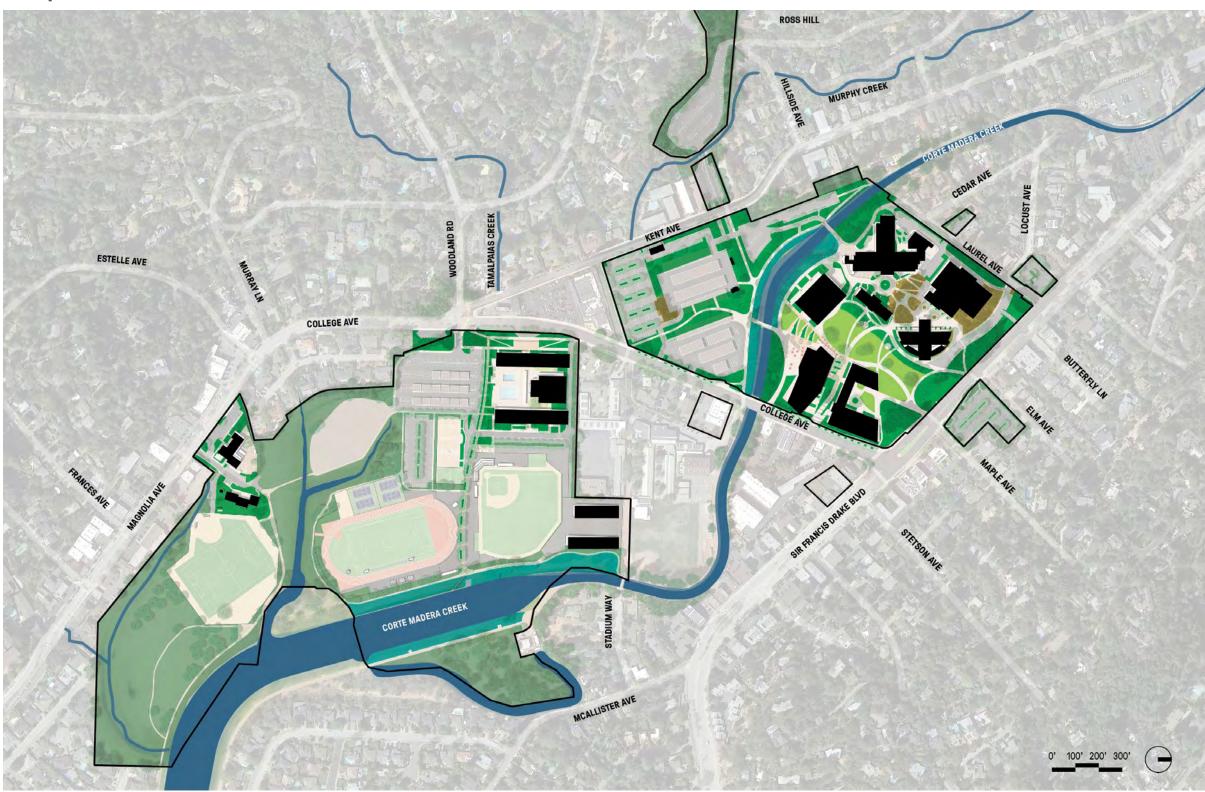
71	California buckwheat	Eriogonum fasciculatum	N
72	Oregon gum plant	Grindelia stricta	N
73	Tristania	Tristaniopsis laurina	I
74	blue plumbago	Plumbago auriculata	I
75	Elm	Ulmus spp.	Ι
76	Poison oak	Toxicodendron diversilobum	N
77	Valley oak	Quercus lobata	N
78	Rosemary	Salvia rosmarinus	Ι
79	Rockrose	Cistus sp	I
80	Sage	Salvia	N/I
81	Pacific wax myrtle	Myrica californica	N
82	Iva sp.	Iva sp.	N
84	Jasmine	Jasminum officinale	I
86	Crape myrtle	Lagerstroemia spp.	Ι
87	Climbing fig	Ficus pumila	Ι
88	Plumbago	Plumbago sp.	Ι
89	Fern	Class Polypodiopsida	N/I
90	Echium	Echium	Ι
91	Bamboo		Ι
92	Red horse-chestnut	Aesculus x carnea	Ι
93	Xylosma	Xylosma sp.	Ι
94	Photinia	Photinia sp.	Ι
96	Locust	Robinia spp.	Ι
97	Morning glory	Family Convolvulaceae	Ι
98	Potato vine	Solanum laxum	Ι
99	Coffeeberry	Frangula californica	N
100	Portugal laurel	Prunus lusitanica	Ι
101	Trident maple	Acer buergerianum	Ι
102	Ginkgo	Ginkgo baloba	I
103	Birch	Betula sp.	
104	Magnolia	Magnolia spp.	Ι
105	Carolina cherry laurel	Prunus caroliniana	Ι
107	Chinese fringe flower	Loropetalum chinense	Ι
108	Coast redwood	Sequoia sempervirens	N
109	Prickly pear cactus	Opuntia sp.	Ι
110	English laurel	Prunus laurocerasus	Ι



- Maintained Core:
  Shrubs/Groundcover
  Maintained Core:
- Meadow Lawn And Lawn Alternatives
  Naturalized Periphery
- (Unirrigated)
  Creek Corridor
- Leaf Litter

### **Vegetation: Understory Planting**

#### **Proposed**



The Kentfield Campus currently includes a mix of maintained irrigated understory planting, naturalized unirrigated understory vegetation, and unvegetated leaf litter areas under groves of large trees or temporary locations of portables. Limited lawn areas are located in the Campus Core's signature outdoor space and in the Physical Education Center's courtyards.

The Landscape Master Plan shows prioritizing maintained irrigated understory planting in the Campus Core and around the Physical Education Center and Child Study Center. A lawn meadow is incorporated into the middle of the campus' signature outdoor space -- the Glade -- but otherwise lawn is replaced with shrub planting. The campus periphery, especially areas away from campus buildings and public streets, are largely naturalized unirrigated planting.

New understory planting will predominantly be Marin native species, per the Plant Palette later in the report.

## Fire Hazard Map

Marin County's "MarinMap" GIS mapping shows most of the Ross Valley including most of the Kentfield Campus' Campus Core having Moderate fire hazard severity transitioning to High fire hazard severity further west. College Avenue and Sir Francis Drake east of College Avenue is the approximate border where the "MarinMap" mapping of fire hazard severity transitions to the classification of "Urban Unzoned."

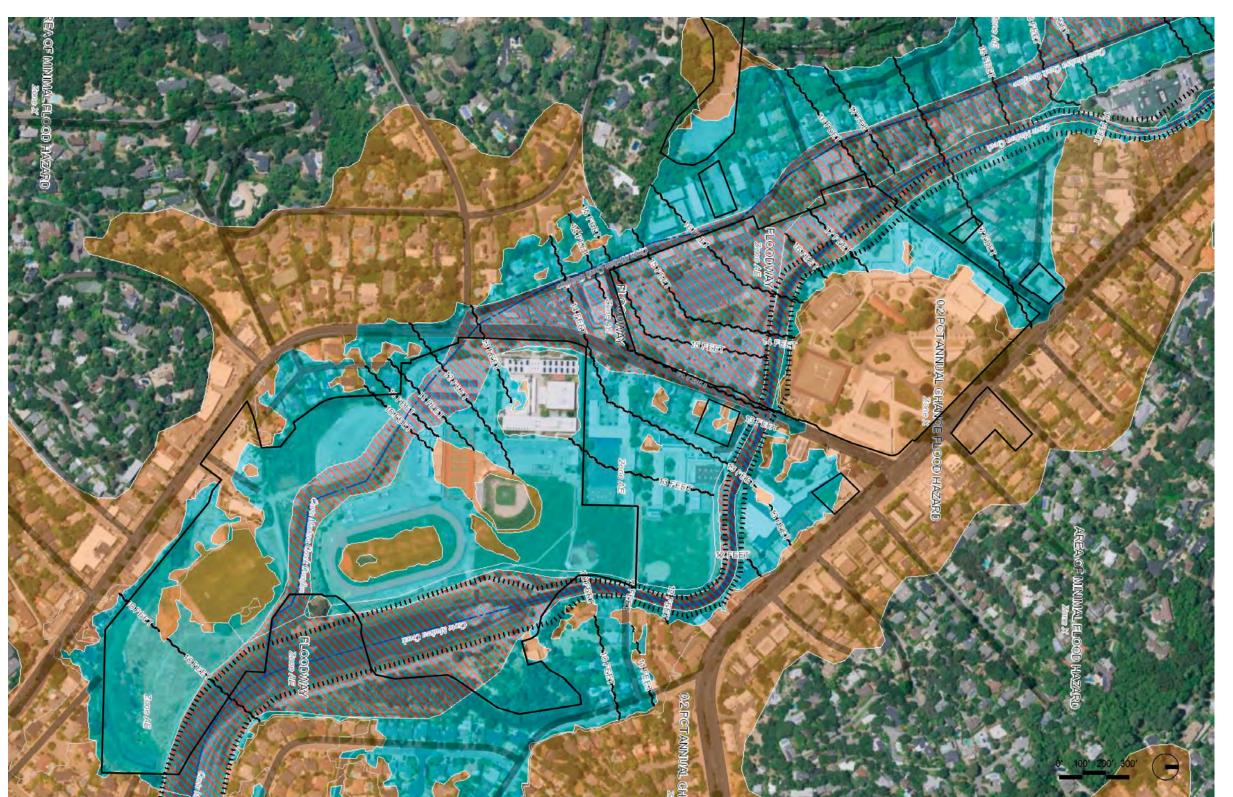
The "MarinMap" GIS mapping also shows that the Kentfield Campus, other than small portions west of Kent and north of Sir Francis Drake, is located outside of the Urban Wildland Interface.





https://www.arcgis.com/home/webmap/viewer.html?panel=gallery&suggest-Field=true&url=https%3A%2F%2Fgis.marinpublic.com%2Farcgis%2Frest%2Fser-vices%2FMarinMap2%2F0pen\_Data\_Download%2FMapServer%2F70

#### Flood Hazard Map



Per FEMA Flood Mapping, Corte Madera Creek as well as most of the parking areas south of the campus core's rise are a regulatory floodway and are anticipated to flood, as they have in the past. Areas adjacent to the regulatory floodway shown in light blue, including the lowest portions of the campus core as well as much of the Physical Education Complex, are indicated as having a 1% annual chance of flooding.

To facilitate the reduction of flooding going forward, the Landscape Master Plan shows walks and parking shifted away from Corte Madera Creek to create a wider creek corridor. The wider creek corridor accommodates flood reduction and habitat enhancements proposed by the County and Friends of the Corte Madera Creek Watershed.

Corte Madera Creek

Base Flood Elevation (Ft)

Levees Flood Hazard Zones:

Regulatory Floodway

1% Annual Chance Flood Hazard

0.2% Annual Chance Flood Hazard

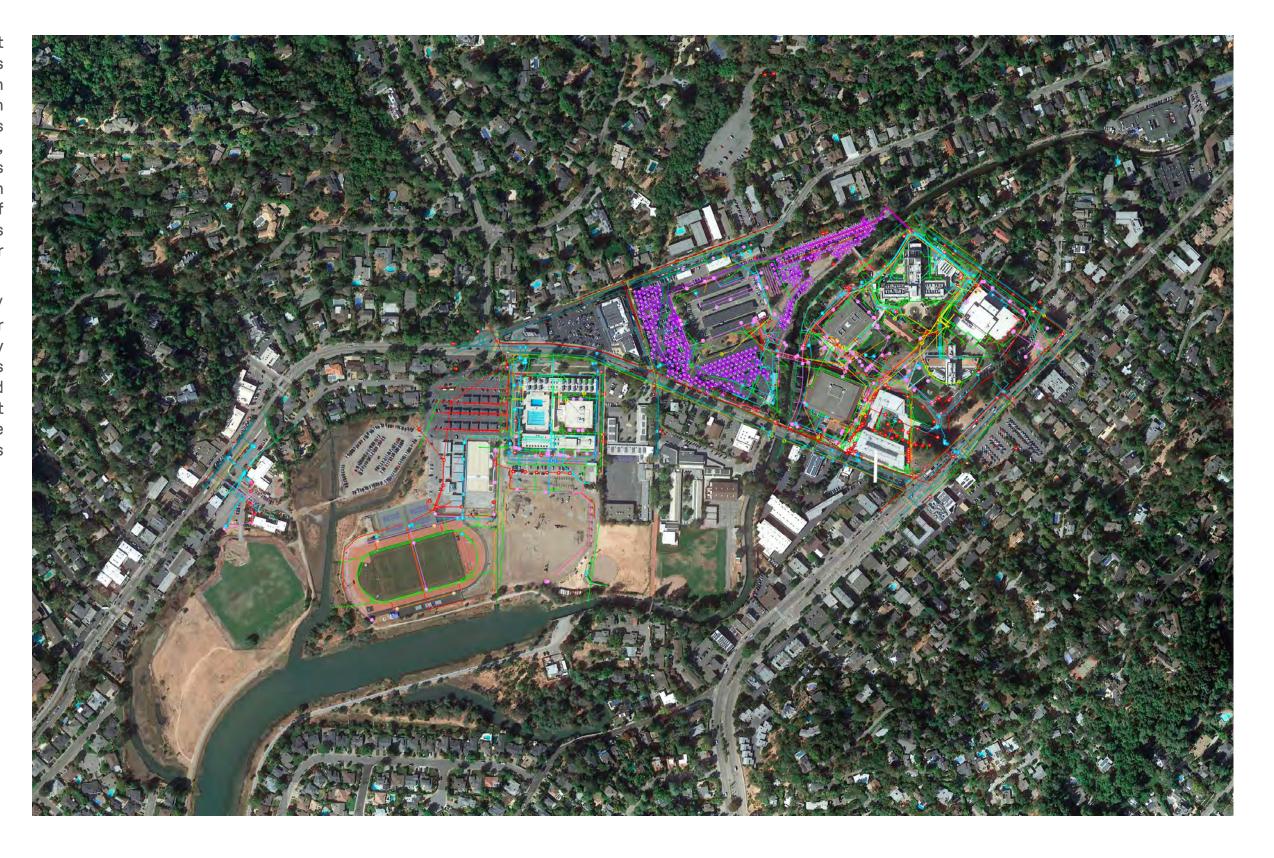
**Area of Minimal Flood Hazard** 

GCS, GEODETIC REFERENCE SYSTEM 1980; VERTICAL DATUM: NAVD88 https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.htm-l?id=8b0adb51996444d4879338b5529aa9cd

## **Campus Utilities Map**

The campus has utility lines traversing most areas to serve buildings, outdoor facilities and campus outdoor spaces, as shown in the campus utilities GIS database. In addition to typical utilities such as pipes and conduits for power, data, gas, water, sewer, and storm drainage, the campus has an extensive geothermal system in the Campus Core's parking areas south of Corte Madera Creek. The campus also has 79,000sf of photovoltaic panels over larger parking areas.

As on any campus, each building, site/landscape and utility project shall endeavor to locate or shift above-ground utility elements such as transformers, backflows and chillers as well as flush vaults and boxes to least visible and least prominent locations, and where possible, to consolidate and relocate above-ground utility elements out of the campus core to peripheral areas.





#### **Plant Palette**

#### TREES

Maintained	Naturalized	Creek				Example on	Hydrozone	Dimensions	Evergreen or		
Core	Periphery	Corridor	Botanical Name	Common Name	Marin Native?	Campus (ID#)	(Wucols)	(Height x Width)	Deciduous	Color, Seasonality	Notes
yes	-	-	Acer macrophyllum	Big Leaf Maple	Marin	153	M	70' x 50'	deciduous	golden fall foliage	
yes	-	yes	Acer negundo	Boxelder	Marin	2911	M	40' x 30'	deciduous	golden fall foliage	Lifespan ∼60 years
yes	yes	yes	Aesculus californica	California Buckeye	Marin	2673	VL	30' x 30'	deciduous	white flowers in spring	
-	-	yes	Alnus rhombifolia	White Alder	Marin	2794	Н	70' x 50'	deciduous	catkins Jan-Apr	
-	-	yes	Alnus rubra	Red Alder	Marin	-	Н	50' x 30'	deciduous		
-	-	yes	Fraxinus latifolia	Oregon Ash	Marin	2644	M	60' x 40'	deciduous		
yes	-	-	Platanus racemosa	California Sycamore	Bay Area	2787	M	70' x 50'	deciduous	dusty brown fall foliage	
yes	yes	yes	Quercus agrifolia	Coast Live Oak	Marin	42	VL	60' x 60'	evergreen	glossy dark green leaves	
yes	yes	-	Quercus chrysolepis	Canyon Live Oak	Marin	-	VL	40' x 40'	evergreen	dark green leaves	
-	yes	-	Quercus kelloggii	California Black Oak	Marin	387	L	70' x 70'	deciduous	golden orange fall foliage	
yes	yes	yes	Quercus Iobata	Valley Oak	Marin	57	L	80' x 80'	deciduous	bronze or gold fall foliage	
-	yes	-	Quercus wislizeni	Interior Live Oak	Marin	-	L	60' x 60'	evergreen	glossy dark green leaves	
yes	-	yes	Sequoia sempervirens	Coast Redwood	Marin	11	Н	125' x 25'	evergreen		
yes	-	-	Acer palmatum	Japanese Maple	Japan	414	M	25' x 25'	deciduous	red or orange fall foliage	

#### LINDEDCTODA

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Maintained	Naturalized	Creek				Example on	Hydrozone	Dimensions	Evergreen or		
Core	Periphery	Corridor	Botanical Name	Common Name	Marin Native?	Campus (ID#)	(Wucols)	(Height x Width)	Deciduous	Color, Seasonality	Notes
yes	yes	-	Arctostaphylos densiflora 'Howard McMinn'	Howard McMinn Manzanita	cultivar, Sonoma	Fusselman Hall	L	4' x 6'	evergreen		
yes	yes	-	Arctostaphylos densiflora 'Sentinel'	Sentinel Manzanita	cultivar, Sonoma	Miwok Garden	L	6' x 6'	evergreen		
yes	yes	-	Arctostaphylos hookeri 'Ken Taylor'	Ken Taylor Manzanita	cultivar, Marin		L	2' x 6'	evergreen		
yes	yes	-	Arctostaphylos manzanita ssp manzanita	Common Manzanita	Marin		VL	8' x 8'	evergreen		
yes	yes	-	Arctostaphylos montana	Mt Tamalpais Manazanita	Marin		L	2' x 6'	evergreen		
yes	yes	-	Arctostaphylos 'Pacific Mist'	Pacific Mist Manzanita	cultivar, S Cal	Fusselman Hall	L	2' x 6'	evergreen	white to pink flowers	
yes	yes	-	Arctostaphylos virgata	Marin Manzanita	Marin		L	6' x 6'	evergreen		
yes	yes	-	Baccharis pilularis	Coyote Brush	Marin		L	5' x 5'	evergreen		
yes	yes	-	Baccharis pilularis 'Pigeon Point'	Pigeon Point Coyote Brush	cultivar, Marin	11	L	2' x 5'	evergreen	white to cream flower	
yes	yes	-	Baccharis pilularis 'Tennessee Beach'	Tennessee Beach Coyote Brush	Marin		L	2' x 5'	evergreen		
yes	yes	-	Ceanothus thyrsiflorus 'Arroyo de la Cruz'	Arroyo de la Cruz Lilac	cultivar, Marin		VL	4' x 8'	evergreen	purple flower	
yes	yes	-	Ceanothus 'Julia Phelps'	Julia Phelps Lilic	hybrid, California	Miwok Garden	L	6' x 8'	evergreen		
yes	yes	-	Ceanothus griseus 'Yankee Point'	Yankee Point Ceanothus	cultivar, Marin		L	2' x 8'	evergreen		
yes	yes	-	Diplacus aurantiacus	Sticky Monkeyflower	Marin		VL	2' x 2'	evergreen	orange flower	
-	yes	-	Eriogonum fasciculatum	California Buckwheat	Marin		L	2' x 3'	evergreen		
yes	yes	-	Frangula californica 'Mound San Bruno'	Mound San Bruno Coffeeberry	cultivar, Marin		L	4' x 4'	evergreen	yellowish flower	
yes	yes	-	Garrya elliptica	Wavyleaf Silktassel	Marin		L	15' x 10'	evergreen	white to pink tassel flower	potentially for screening
yes	yes	-	Heteromeles arbutifolia	Toyon	Marin	34	VL	20' x 15'	evergreen	showy white flowers, red berries	potentially for screening
yes	yes	-	Iris macrosiphon	Long Tubed Iris	Marin		L	2' x 1'	perennial	Cream-colored flowers in spring	propagated by IVC Farm
yes	yes	yes	Juncus patens	Rush	Marin		L	2' x 1'	perennial		propagated by IVC Farm
-	-	yes	Leymus triticoides	Creeping Wild Rye	Marin		L	2' tall	perennial	green flower	Friends of CM Creek project
-	-	yes	Ribes sanguineum	Red Flowering Currant	Marin		L	7' x 7'	deciduous	pink or red flowers	
yes	-	-	Rosa californica	California Wildrose	Marin		L	8' x 10'	semi-deciduous	pink Feb-Nov	
-	-	yes	Salix lucida lasiandra	Pacific Willow	Marin	-	Н	30' x 20'	deciduous	white or yellow flowers in spring	
yes	-	-	Salvia clevelandii 'Winnifred Gilman'	Winnifred Gilman Sage	cultivar, S Cal		L	3' x 3'	perennial		
yes	yes	-	Salvia mellifera	Black Sage	Marin		L	3' x 3'	evergreen		
yes	-	-	Salvia spathacea	Hummingbird Sage	Marin	Miwok Garden	L	2' x 3'	evergreen	blue, lilac, purple flowers Mar-July	
-	-	yes	Symphoricarpos albus laevigatus	Common Snowberry	Marin		L	4' x 4'	deciduous		
-	-	yes	Symphoricarpos mollis	Creeping Snowberry	Marin		L	2' x 4'	deciduous		Friends of CM Creek project
yes	-	yes	Vaccinium ovatum	Huckleberry	Marin		М	4' x 4'	evergreen	new growth in spring is red	
yes	-	-	Lavandula x heterophylla	Sweet Lavender	Europe		L	3' x 3'	perennial		
yes	-	-	Olea europaea 'Little Ollie'	Dwarf Olive	Europe	31	VL	6' x 6'		typical olive leaves	Use Coffeeberry generally
yes	_	-	Meadow Lawn Sod Dwarf Fescue, overseeded	d with native wildflowers: Alternatives	for low use areas in	clude UC Verde Bu	ffalo Grass, Nat	ive Bentgrass and K	U		

As described earlier in the report, the Kentfield Campus is nestled into the lush tree-covered Ross Valley, and the campus itself includes over 800 trees. The campus' existing trees include about 100 species, two-thirds of which are Marin native species and one-third introduced, and the existing understory planting includes over 100 species, one-third of which are Marin native species and two-thirds introduced.

The Plant Palette includes tree and understory plant species that form the essence of the existing Kentfield Campus, as well as additional Marin native species that will, over time, shift the campus vegetation to be a showcase for better integrating with Marin's natural beauty and ecology.

Plant species tinted in red or orange are campus framework species, and should be used extensively. Untinted selections are additional species that can be used as appropriate for specific local conditions. Of the framework species, the species tinted in red are Marin natives and those in orange are non-natives. Photos of the framework species are shown on the following pages.

Understory plant species are predominantly evergreen carrying leaves throughout the year, waist high, relatively full in character, low water using, and intended to be used in natural form without hedging to reduce maintenance.

The College's Organic Farm & Garden offers a special opportunity to grow native species plants and could be used to propagate "College of Marin" selections for both campuses.

#### Plant Palette: Trees



Sequoia sempervirens (Coast Redwood)



Acer palmatum (Japanese Maple)



Quercus agrifolia (Coast Live Oak)



Quercus (Deciduous Oak)



Platanus (Sycamore)



Acer macrophyllum (Big Leaf Maple)

# **Plant Palette: Understory Planting**



Arctostaphylos hookeri 'Ken Taylor'



Lavandula heterophylla (Sweet Lavender)



Baccharis 'Pigeon Point' (Pigeon Point Coyote Brush)



Salvia spathacea (Hummingbird Sage)



Frangula californica 'Mound San Bruno'



Vaccinium ovatum (Huckleberry)

# **Plant Palette: Understory Planting**



Arctostaphylos 'Pacific Mist'



Salvia mellifera (Black Sage)



Arctostaphylos densiflora 'Howard McMinn'



Iris macrosiphon (Long Tubed Iris)



Symphoricarpos albus (Common Snowberry)



Juncus patens (Rush)

#### Plant Palette: Meadow Lawn and Lawn Alternatives



Lawn Alternative for Low Use Area: UC Verde Buffalo Grass



Lawn Alternative for Low Use Area: Kurapia



Dwarf Fescue, to be overseeded with Native Wildflowers



Lawn Alternative for Low Use Area: Native Bentgrass



Prototype: Existing Meadow Lawn near Academic Center

## Plant Palette: Plants Used by College of Marin Courses

Many of the Kentfield Campus' trees and understory plants are educational resources for Biology and Environmental Landscaping courses, as shown on this list. In light of this, please maintain existing healthy specimens of these species on campus. If the campus' sole specimen needs to be removed due to project layout and grading, consider replacing elsewhere on campus with a new specimen. Species shown tinted in green are Marin natives, and the balance are introduced.

Special thanks to Dr Paul da Silva, Trustee and professor emeritus of the Department of Life and Earth Sciences, for this list.



Plant Scientific Name	College of Marin Course									
Acca (Feijoa) sellowiana			T	T	1	ELND 115S				
Acer negundo	BIOL 110	+		BIOL 165	ELND 115F	LEND 1133	<u> </u>			
Achillea millefolium	DIOL 110		BIOL 161	DIOL 103	LEINE	<u> </u> 	<u> </u>			
			BIOL 161		1					
Adiantum capillus-veneris  Aesculus californica			BIOL 161	+	ELND 115F		ELND 116			
		BIOL 112B	BIOL 161	<del> </del>	ELND 115F	<u> </u>	ELND 116			
Afrocarpus (Podocarpus) gracilior	+	BIOL 112B	<u> </u>	+	+					
Agapanthus orientalis	+	DIOL 112D	<u> </u>	-	ELND 115F	PLAID 1150	FIND H			
Agave spp.		BIOL 112B		1	DIAM HED	ELND 115S	ELND 116			
Allium hybrids		+		1	ELND 115F	EVAID 1150				
Aloe arborescens						ELND 115S				
Amaryllis belladonna			200.00	1	ELND 115F					
Anaphalis margaritacea			BIOL161	<u> </u>	<u> </u>		<u> </u>			
Araucaria bidwillii		BIOL 112B	ļ	-	-					
Arbutus menziesii			BIOL161	BIOL 165	ELND 115F		ELND 116			
Arbutus unedo			ļ		ELND 115F					
Arctostaphylos glandulosa		BIOL 112B	BIOL161	BIOL 165						
Arctostaphylos manzanita			BIOL161	<u> </u>	<u> </u>	ELND 115S	ELND 116			
Arctostaphylos uva-ursi			BIOL161	<u> </u>	<u> </u>	ELND 115S	ELND 116			
Artemisia californica	BIOL 110		BIOL161	<u> </u>	<u> </u>	<u> </u>	ELND 116			
Baccharis pilularis consanguinia	BIOL 110		BIOL161	BIOL 165		ELND 115S	ELND 116			
Baccharis pilularis pilularis	BIOL 110						ELND 116			
Berberis pinnata			BIOL161				ELND 116			
Blechnum spicant			BIOL161							
Bromus mollis			BIOL161							
Buddleja davidii nanhoensis 'Purple'					ELND 115F					
Buxus sempervirens and cultivar suffruticosa						ELND 115S				
Calamagrostis foliosa			BIOL161				ELND 116			
Calamagrostis ophiditis			BIOL161				ELND 116			
Callistemon citrinus		BIOL 112B				ELND 115S				
Callistemon viminalis 'Little John'		BIOL 112B			ELND 115F					
Calycanthus occidentalis	BIOL 110						ELND 116			
Camellia spp.						ELND 115S				
Camissonia ovata			BIOL161							
Cardamine californica			BIOL161							
Cardamine oligosperma			BIOL161							
Carex pansa							ELND 116			
Carex sp.		1	1		ELND 115F					
Ceanothus 'Concha'					ELND 115F					
Ceanothus cuneatus			BIOL161							
Ceanothus sorediatus			BIOL161							
Ceanothus spp.						ELND 115S	ELND 116			
Ceanothus thyrsiflorus			BIOL161	BIOL 165						
Cercis occidentalis							ELND 116			
Chaenomeles sp.		1	†	†	1	ELND 115S				
Chamaecyparis lawsoniana		BIOL 112B	†							
Chrysanthemum maximum		BIOL 112B	BIOL 161	†	†					
Cistus x pulverulentus 'Sunset'	1	1	† · · · · · ·		ELND 115F					
			l	1	22.12.1131	I	l			

Plant Scientific Name	College of Marin Course									
Citrus 'Bearss'		1	1	Ĭ	ELND 115F		1			
Citrus 'Improved Meyer'					ELND 115F					
Citrus 'Clementine'					ELND 115F					
Cordyline 'Can Can'					ELND 115F					
Cornus occidentalis							ELND 116			
Crassula argentea		BIOL 112B				ELND 115S				
Crassula ovata		BIOL 112B								
Cupressus macrocarpa		BIOL 112B	BIOL161			ELND 115S	ELND 116			
Cupressus sargenti			BIOL161							
Cyathea cooperi	BIOL 110	BIOL 112B								
Cycas revoluta	BIOL 110	BIOL 112B				ELND 115S	1			
Danthonia californica			BIOL161				1			
Daucus pusillus			BIOL161							
Dicksonia antarctica		BIOL 112B				ELND 115S				
Diplacus (Mimulus) aurantiacus			BIOL161							
Dodonea viscosa 'Purpurea'					ELND 115F					
Dryopteris arguta		BIOL 112B	BIOL161							
Dryopteris expansa			BIOL161							
Dudleya cymosa		BIOL 112B								
Ephedra californica	BIOL 110	BIOL 112B								
Epilobium canum (Zauschneria californica)	BIOL 110		BIOL161		ELND 115F					
Equisetum arvense	BIOL 110	BIOL 112B	BIOL161							
Erigeron glaucus			BIOL161				ELND 116			
Eriobotrya deflexa					ELND 115F					
Eriobotrya japonica					ELND 115F					
Eriodictyon californicum			BIOL 161							
Eriogonum giganteum			BIOL161				ELND 116			
Eriogonum grande var. rubescens			BIOL161				ELND 116			
Eriogonum latifolium			BIOL161				İ			
Eriogonum rubescens					ELND 115F					
Eriogonum spp.						ELND 115S	ELND 116			
Eschscholzia californica,		BIOL 112B	BIOL161							
Eucalyptus sideroxylon				BIOL 165	ELND 115F		ELND 116			
Euphorbia splendens		BIOL 112B								
Euryops pectinatus	İ	BIOL 112B				ELND 115S				
Ferocactus sp.	İ	BIOL 112B	İ			ELND 115S	ELND 116			
Festuca californica			BIOL161				ELND 116			
Fragaria chiloenisis		BIOL 112B	BIOL161				ELND 116			
Frangula (Rhamnus) californica			BIOL161		ELND 115F		ELND 116			
Fraxinus latifolia	BIOL 110		BIOL161							
Fremontodendron californicum			BIOL161		ELND 115F		ELND 116			
Garrya elliptica			BIOL161		ELND 115F		ELND 116			
Ginkgo biloba	BIOL 110	BIOL 112B			ELND 115F					
Grevillea 'Noelii'		Ì			ELND 115F					
Grindelia stricta		Ì	BIOL161				ELND 116			
Hemerocallis cultivars		BIOL 112B	ĺ							
Hemizonia congesta		ĺ	BIOL161		ELND 115F					

Plant Scientific Name			(	College of Marin C	ourse		
Heracleum lanatum			BIOL161	BIOL 165			
Heteromeles arbutifolia	BIOL 110		BIOL161	BIOL 165	ELND 115F	ELND 115S	ELND 116
Hymenosporum flavum	BIOL 110						
Iris douglasiana			BIOL161				ELND 116
Iris ensata					ELND 115F		
Iris macrosiphon			BIOL161				
Jacaranda mimosifolia	BIOL 110						
Juncus bufonius			BIOL161				
Juncus effusus					ELND 115F		ELND 116
Juncus patens 'Elk Blue'						<u> </u>	ELND 116
Juncus patens			BIOL161				
Juniperus horizontalis						ELND 115S	
Lathyrus odoratus		BIOL 112B	BIOL161				
Lathyrus tingitanus		BIOL 112B					
Lathyrus vestitus			BIOL161				
Lavatera assurgentifolia		BIOL 112B	BIOL161				
Leptospermum scoparium 'Nanum Tui'					ELND 115F		
Leptospermum scoparium						ELND 115S	
Leptosyne gigantea	BIOL 110	BIOL 112B					
Lilium longiflorum	1		BIOL161	1	İ	İ	
Lolium multiflorum			BIOL161	1			
Lotus scoparius			BIOL161				
Lupinus bicolor			BIOL161				
Lupinus latifolius			BIOL161				
Luzula comosa			BIOL161				
Lyonothamnus floribundus, especially var. asplenifolius		İ				ELND 115S	ELND 116
Magnolia grandiflora	BIOL 110	BIOL 112B				ELND 115S	
Magnolia soulangeana			BIOL161			ELND 115S	
Malus spp. and cultivars			BIOL161			ELND 115S	
Malus sylvestris		BIOL 112B					
Malva parviflora			BIOL161				
Medicago polymorpha	BIOL 110	BIOL 112B	BIOL161				
Morella (Myrica) californica	BIOL 110		BIOL161		ELND 115F		
Muhlenbergia rigens			BIOL161				ELND 116
Myrtus communis 'Compacta'					ELND 115F		
Nerium oleander					ELND 115F		
Olea europaea		BIOL 112B				ELND 115S	
Opuntia ficus-indica x tuna		BIOL 112B			ELND 115F		
Opuntia species						ELND 115S	ELND 116
Osmorhiza berteroi			BIOL161				
Philodendron bipinnatifidum						ELND 115S	
Phoenix canariensis		BIOL 112B				ELND 115S	ELND 116
Phoenix roebelenii					ELND 115F		
Phormium tenax						ELND 115S	
Pinus muricata	BIOL 110		BIOL161				
Pinus radiata		BIOL 112B	BIOL161			ELND 115S	ELND 116
Pinus sp.		BIOL 112B					

Plant Scientific Name		College of Marin Course									
Pittosporum tenuifolium 'Marjorie Channon'		ELND 115F									
Pittosporum undulatum	i					ELND 115S					
Polypodium californicum		BIOL 112B	BIOL161								
Polystichum munitum	BIOL 110	BIOL 112B	BIOL161		ELND 115F	ELND 115S	ELND 116				
Prunus ilicifolia		BIOL 112B					ELND 116				
Prunus sp.		+	BIOL161	†	+	†	†				
Pseudotsuga menziesii		BIOL 112B	BIOL161	BIOL 165	1	ELND 115S	ELND 116				
Quercus agriflolia	BIOL 110		BIOL161	BIOL 165	ELND 115F	ELND 115S	ELND 116				
Quercus kellogii			BIOL161				1				
Quercus lobata	BIOL 110		BIOL161		ELND 115F		ELND 116				
Quercus suber		BIOL 112B		+	+	†					
Ranunculus californicus		BIOL 112B	BIOL161	1			1				
Rhododendron occidentale			BIOL161	1		ELND 115S					
Ribes malvaceum		+	BIOL161	+	+		ELND 116				
Ribes sanguineum		+	BIOL161	+	+	†	ELND 116				
Rosa californica		+	BIOL161	+	ELND 115F	+	221.15 110				
Rosa gymnocarpa		+	BIOL161	+	22112 1131	1	1				
Salix lasiolepis	BIOL 110		BIOL161	BIOL 165	ELND 115F	+	ELND 116				
Salvia apiana	BIOL 110	BIOL 112B	DIOLIGI	BIOL 165	LEND 1131	+	LLIND 110				
Salvia apiana		BIOL 112B	BIOL161	BIOL 165	+	+	+				
		+	BIOLIGI	BIOL 103	+	+	ELVID 116				
Salvia spp.		+	DIOI 161	+	+	+	ELND 116				
		+	BIOL161	DVOV 165	+	EVAND 1150	FINE				
Schinus molle	DVOV 110			BIOL 165	+	ELND 115S	ELND 116				
Sciadopitys verticillata	BIOL 110		Provide	+	_	-	1				
Scirpus microcarpus		DVOV 112D	BIOL161	+	+	EVAID 1150	<del> </del>				
Sedum spp.	2707	BIOL 112B	PY07	+		ELND 1158					
Sequoia sempervirens	BIOL 110	BIOL 112B	BIOL161	+	ELND 115F	ELND 115S	ELND 116				
Sequoiadenderon giganteum	BIOL 110	BIOL 112B	<u> </u>	<u> </u>	+	<u> </u>	-				
Sidalcea malviflora		+	BIOL161		+	-	-				
Sisyrinchium bellum		+	BIOL161		+	<del> </del>	ELND 116				
Sisyrinchium californicum		+	BIOL161		+	<del> </del>	ELND 116				
Stachys chamissonis			BIOL161		ELND 115F		-				
Stachys rigida			BIOL161			-	-				
Stipa (Nasella) pulchra			BIOL161			<u> </u>	ELND 116				
Strelitzia nicolae						ELND 115S	ļ				
Strelitzia reginae	BIOL 110	BIOL 112B	1		<del>                                     </del>	ELND 115S	ļ				
Thuja occidentalis and orientalis		BIOL 112B	1			ELND 115S	ļ				
Tibouchina urvilleana			1			ELND 115S	ļ				
Torreya californica			BIOL161			<del>                                     </del>	<u> </u>				
Trachycarpus fortunei						ELND 115S					
Umbellularia californica			BIOL161	BIOL 165	ELND 115F	ELND 115S	ELND 116				
Vaccinium ovatum		1	BIOL161		ELND 115F						
Washingtonia filifera		BIOL 112B				ELND 115S	ELND 116				
Woodwardia fimbriata			BIOL161			ELND 115S	ELND 116				
Wyethia angustifolia			BIOL161								
Yucca elephantipes					ELND 115F						
Yucca sp.		BIOL 112B				ELND 115S					

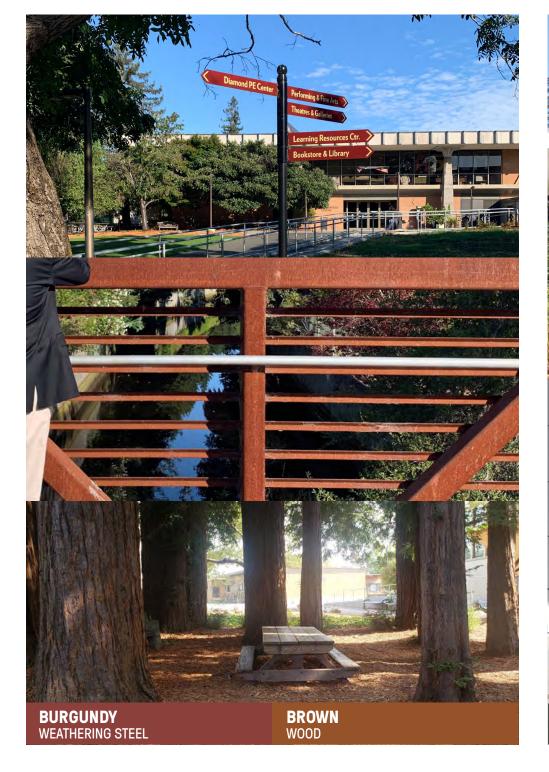
#### **Campus Outdoor Elements**

While the Kentfield Campus' general character and beauty are established by the many trees, the signature outdoor space and views to Mt Tam, the campus comes alive with people – students, faculty and staff – and the outdoor elements that support them as they go about their studies, dining and socializing. Campus outdoor elements include tables & chairs and other seating, shade structures, trash receptacles, bike racks, lighting, signage and art. The Design Guidelines that follow provide a kit of parts for upcoming projects that build on and enhance the character of the Kentfield Campus.

#### **Color Palette**

The Kentfield Campus' many trees as well as views of the surrounding Ross Valley and Mt Tam provide a rich dark green setting with natural beauty for the campus. The colors of the most appealing existing site furnishings either attractively contrast – with burgundy/rusts, reds, whites and light warm grays/silvers – or harmonize – with "tree trunk" browns and warm grays – with this setting. The corollary of this is to avoid jarring, unnatural colors, especially yellow, throughout campus.

## **Color Palette**







### **Site Furnishings**

The Kentfield Campus' existing site furnishings include a wide range of designs and materials, with some working well and many furnishings older and becoming less usable and even unattractive. The recent swings are popular, and several of the furnishings at the Academic Center remain attractive and well used. Ideally tables & chairs and other furniture are replaced about every two decades to keep the campus attractive and inviting.

#### **Site Furnishings Palette**

The Site Furnishings Palette includes durable, attractive furniture for both groups and individuals, to create a better used and more beautiful campus. The most common comment from students is a desire for more site furnishings in attractive outdoor spaces, and this palette responds to that. New selections include rectangular communal tables & benches, round loose tables & chairs, and large umbrellas for adjustable shade. Existing selections carried forward include the most recent trash receptacles, the recent swings, and most recent pole lights. Special campus lighting, for example for the upcoming Social Slope, are light columns with aimable lights and space for banners.















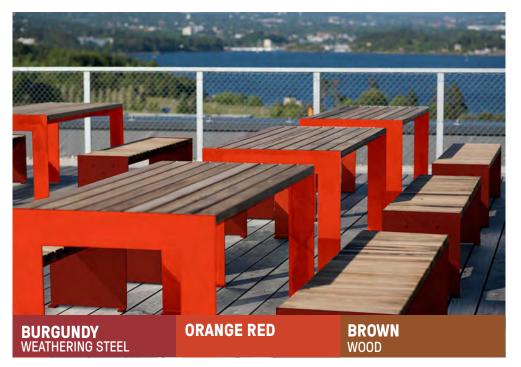








# **Site Furnishings Palette**



Communal Tables & Benches: Vestre Vroom, with Via Benches



Forms + Surfaces Apex splitstream (existing)



Loose Tables & Chairs: Landscape Forms Chipman



Swings: Sunset Swings (existing)



Umbrella: Umbrosa Spectra Ux Cantilever Umbrella



Pole Light: AAL Largent (existing) Landscape Forms Arne

#### Existing



Parking Lot Entry Sign



**Campus Information Sign** 



**Wayfinding Sign** 



**Donor Wall** 



Campus Sign



Campus Map

### Signage

#### **Proposed**



**Parking Lot Entry Sign** 



Digital Screen Wall, if Needed



**Wayfinding Sign** 



Donor Wall, with Ability to Add Donors over Time



**Campus Sign** 



**Campus Map** 

As with the site furnishings, the Kentfield Campus' existing signage includes a wide range of designs and materials, with some continuing to fit well with the campus and Color Palette and some out of place or superseded by more recent signage. Existing signage carried forward as proposed prototypes include the Campus Sign at the corner of College Avenue & Sir Francis Drake, Pedestrian Wayfinding Signs and Parking Lot Entry Signs. New selections include digital screen walls, if needed, that match the Campus Sign, a donor wall that matches the campus' design vocabulary, and updated campus maps.

In addition to continuing to refine campus signage, as more people have smartphones maintaining a digital map of campus which can zoom into buildings to provide information about departments and rooms as well as events is becoming valuable.

### **Campus Paving**

The Kentfield Campus' paving in the pedestrian realm generally consists of curvilinear asphalt walks and natural-color concrete quads, plazas and courtyards. Certain quads, plazas and courtyards have special paving, for example concrete paving with a special finish or accent of pavers. Limited areas of flagstone also exist on campus.

The pedestrian realm paving palette continues the use of natural-color concrete walks, with seeded aggregate concrete matching the Academic Center quad carried forward as the prototype for plazas, courtyards and terraces. Limited special areas can also feature local stone from Marin's San Rafael Quarry or long-proportion integrally-colored pavers. Asphalt walks within the Campus Core should be converted to concrete over time, to reduce heat gain and reinforce the campus' attractive pedestrian, non-vehicular character.

With each building and site/landscape project, endeavor to create a more gracious and accessible walk network that reduces or eliminates add-on ramps, stairs and associated handrails.

Other outdoor hardscape elements such as stairs, seat walls and platforms, and walls shall be natural-color concrete or local stone from Marin's San Rafael Quarry. Handrails, where needed, shall be brushed stainless steel.



Concrete with Exposed Angular Aggregate



Concrete Pavers 12x6 at Fine Arts



**Concrete with Seeded Round Aggregate** 



Concrete Pavers at Physical Education Center

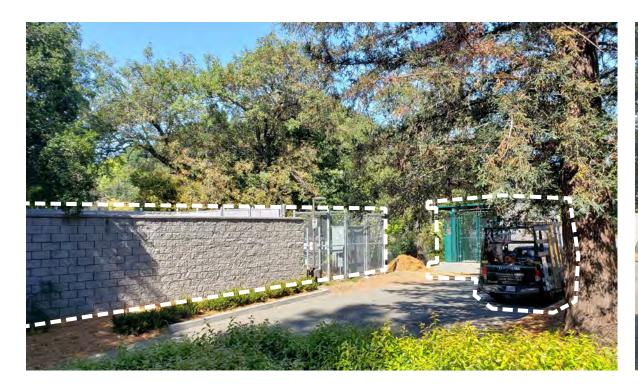


**Concrete Natural Color with Sawcut Joints** 



Stone Pavers 4x4 at Performing Arts

#### **Utilities and Clutter**









As on most campuses, a certain amount of clutter accretes over time, to the detriment of the campus experience and identity. Each building, site/landscape and utility project shall endeavor to locate or shift above-ground utility elements such as transformers, backflows and chillers as well as flush vaults and boxes to least visible and least prominent locations, and where possible, to consolidate and relocate aboveground utility elements below ground or out of the campus core to peripheral areas. Also, above-ground utility elements shall be painted "tree bark" dark warm gray, to harmonize with the campus' treed setting. Exceptions are fire appurtenances which are painted per fire department standards.

Likewise, outbuildings, temporary storage sheds, shabby site furnishings including unplanted planters, excess bollards, and random rocks should be "edited" with each project to the greatest extent possible. Once the clutter is edited, the campus' long views, immersive planted setting, buildings, people and furnishings shine through.

### **Art on Campus**

The Kentfield Campus includes art pieces throughout the campus core. Given the number of art pieces, the Landscape Master Plan recommends periodic review to reconfirm which pieces are beloved and appreciated. Also, each building and site/landscape project shall either incorporate, relocate or replace art pieces, whichever creates the most cohesive and attractive campus going forward.

This map shows the existing art pieces and proposed relocations or removals. The "Renaissance" scissors and the weathering steel sculpture in the campus' signature outdoor space are proposed to be shifted from the middle to one side when this space is enhanced as the Glade. The globes at the Science-Math-Nursing circle, which were intended to depict the solar system but are all painted somewhat like Juniper, might benefit from keeping just a few. The balls on the back-of-house side of Science-Math-Nursing create visual clutter on what should be a generously planted area and are recommended for removal, and the "seed pods" in the adjacent courtyard should be replaced with loose tables & chairs for group study and socializing. New art pieces should be located and conceptualized in close collaboration between campus leadership and project design teams.



**Proposed Art Location** 



**Existing Art Location** 



**Existing Art to be Eliminated** 





A. "Renaissance" in Central Outdoor Space



D. Solar System Globes at Science-Math-Nursing



B. Weathering Steel Sculpture, by Farhad Moezzi



E. Balls at back of Science-Math-Nursing



C. East Side of Student Services



F. Seed Pods at Science-Math-Nursing







### 1. Executive Summary

**Campus Goals** 

Preserve the natural beauty and ecology of the campus

Strengthen the walkability of campus with a clear, pleasant main route

Create a campus that is itself an educational experience

Enhance the campus' outdoor people places, including providing shaded seating

Create small outdoor classrooms

Enhance creek, and create interaction with creek

Pursue a fire-smart landscape

**Sustainability Goals** 

Create a lasting open space framework

Increase amenities such as dining and shaded outdoor people places to keep students, faculty and staff on campus

Extend and enhance walkability within campus and to surrounding areas

Encourage use of non-car micromobility to access campus by providing convenient routes and racks/lockers

Minimize land dedicated to parking by using efficient layouts and adjusting to mobility trends

Plant more trees, to shade paving and enhance creek ecology

Preserve and enhance Marin native planting and ecology, and remove invasive plant species

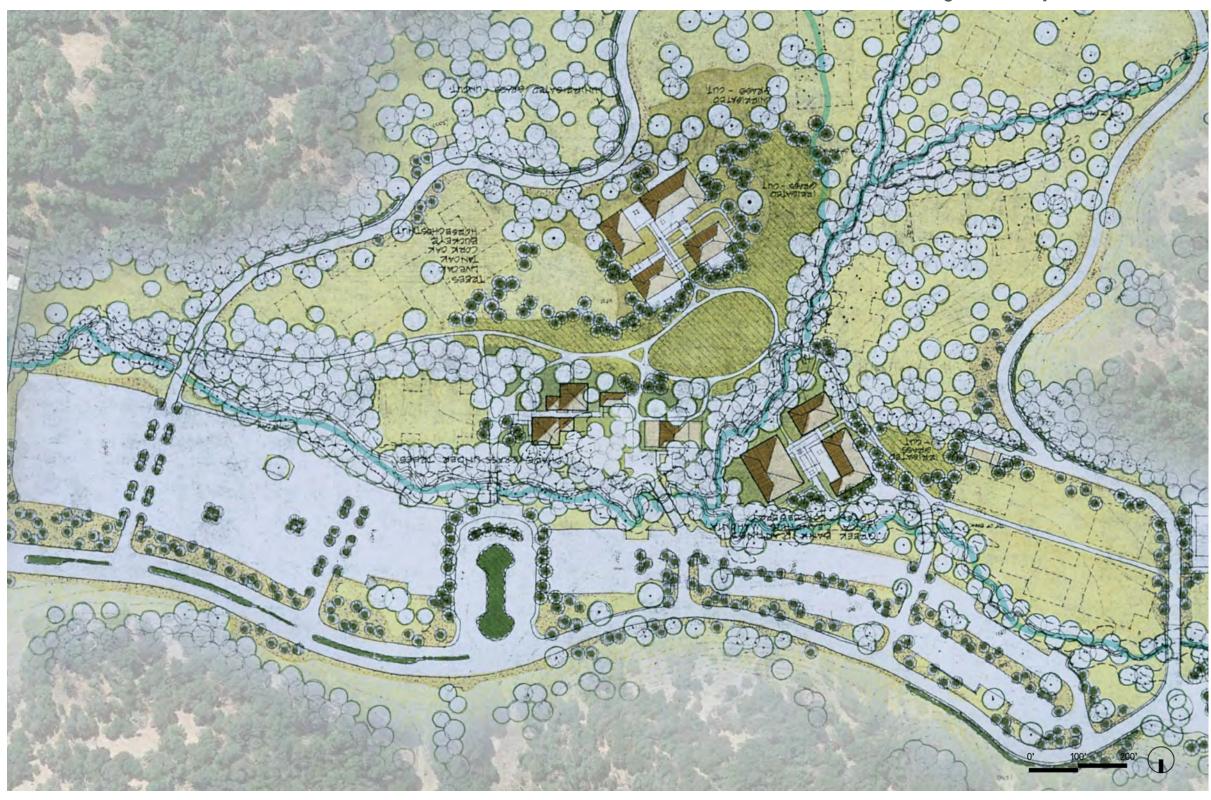
Enhance creeks, which are signatures of each campus

The Indian Valley Campus, which is nestled into an oak woodland valley abutting the Indian Valley and Ignacio Valley Preserves at the end of Ignacio Boulevard in southwest Novato, is a beautiful campus. The campus, which opened in 1975, has evolved significantly over the past decade with several new and renovated buildings and facilities.

Building on these recent investments, the College embarked on this Landscape Master Plan to plan the enhancement of the campus' outdoor spaces and setting, to be ever more attractive and functional for students, faculty and staff, celebrate its distinct and stunning natural beauty, and support the College's motto of Dream.Learn. Achieve.

Through the Landscape Master Plan's many meetings and engagement sessions, the campus goals and sustainability goals shown here were established to guide this effort. The exhibits on the following pages show the resulting master plan including transformational projects which embody and reflect these goals. The Executive Summary is followed by Supporting Analysis & Diagrams as well as additional detail for implementation projects in the Design Guidelines.

## Original Campus Plan (1973)



### **Campus Core: Evolution over Time**

#### Campus in 2002



College of Marin's Indian Valley Campus has grown and evolved in the 45 years since it opened in 1975 as Indian Valley College. The campus began with a clear arrangement with the elliptical Campus Green as its outdoor heart, surrounded by building clusters in a pedestrian-only setting interwoven with the oak woodland uphill of Ignacio Creek. Arrival to campus was via a central dropoff and bus stop with flanking parking areas on the Ignacio Boulevard side of Ignacio Creek, with a series of bridges providing walking approaches into the campus core.

While the ball fields and Organic Farm & Garden were added on the west side of campus in the late 1990s and 2008, respectively, the original arrangement of the campus core remained largely unchanged until the addition of the Library in 2010.

#### Existing (2018)

Today, with the addition a decade ago of the Library (Building 27) on the parking side of Ignacio Creek, and more recent redevelopment or renovation of several of the original building clusters, the campus has become dispersed from the Campus Green. One of the top priorities of the Landscape Master Plan is to establish a clear, pleasant main walk and linked outdoor spaces for today's distribution of buildings, to create a cohesive, iconic and lasting outdoor framework for the Indian Valley Campus.



#### Campus Core: Landscape Master Plan

#### **Proposed**



The Landscape Master Plan shows a new main walk beginning at the transformed Library Plaza and continuing via a new pedestrian bridge over Ignacio Creek to an enlarged Central Garden and enhanced Campus Green. The main walk continues via an existing bridge over a branch of Ignacio Creek to the Jonas Center, Organic Farm & Garden, ball fields, and trails of the Indian Valley Preserve, linking the entire campus within the pedestrian-only oak woodland setting. The campus main walk is marked by a subtle ribbon of local stone banding and unique pole lights, which other walks and paths won't have. Given the distinct and stunning natural beauty of the campus, the Landscape Master Plan proposals use a light touch, and the plant and materials palettes are derived from the campus' setting.

#### Transformational Projects:

- Library Plaza: Upgrade to create a compelling arrival to campus, an attractive outdoor space for the campus community, and well linked to the rest of the campus
- Campus Green: Reestablish as a vibrant outdoor space for the campus community
- Outdoor Classrooms: Create opportunities to bring the educational experience outdoors into the campus' beautiful setting

## Existing



## **Transformation: Library Plaza**

#### **Proposed**



The Library, also known as Building 27 and the Main Building, became the de facto face of campus when it opened a decade ago close to the campus' entrance at the end of Ignacio Boulevard. The adjacent outdoor area, which extends from the building to Ignacio Creek, offers little shade, doesn't have a clear pedestrian connection to the rest of campus, and is generally uninviting. To transform this space into a compelling arrival and vibrant outdoor space for the campus, the Landscape Master Plan proposes adding a new pedestrian bridge across Ignacio Creek to the rest of campus, a larger grouping of loose table and chairs with large umbrellas near the building's library and café entrance, and several Valley Oaks (native deciduous canopy trees). A new terrace with seating for up to 150 people is shown oriented towards Ignacio Creek, with the Creek and oak and bay woodland as the backdrop. To reinforce the plaza and new bridge as the beginning of the main walk for campus, the main walk's vocabulary of a ribbon of stone banding with poetry and pole lights with banners and is woven into a reshaped curved edge of the plaza. The existing paving forms, planting and walls are simplified to clearly express the studying, dining and socializing hub at the library and café, the canopy tree shaded meadow, the terrace oriented to the Creek, and the main walk to the rest of campus.

## Existing

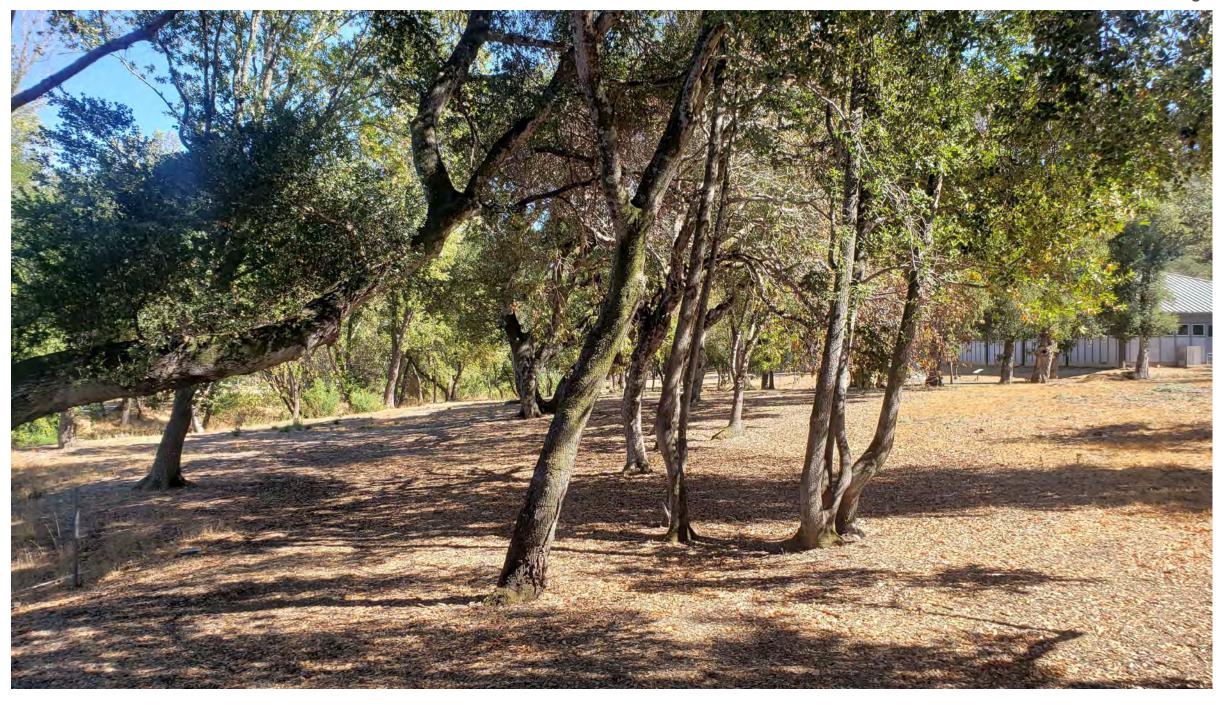


# **Transformation: Campus Green**

#### **Proposed**



The Campus Green, originally the single central outdoor space for campus, is about to become more active again with the recent opening of the Jonas Center conference center, soon to open Miwok Aquatics Center, and proposed renovation of Building 12 as the Student Center. To transform the Campus Green into a vibrant outdoor space anchoring the west end of the campus core, the Landscape Master Plan shows communal tables and benches with large umbrellas along the future Student Center, strengthening the elliptical form and restoring the subtly-bowled meadow lawn, and adding the campus main walk's vocabulary of pole lights and stone ribbon with poetry. Not only will the Campus Green once again become a well-used outdoor space for students, faculty and staff, it will also be used by Miwok Aquatics Center swim meet participants and Jonas Center conference attendees.



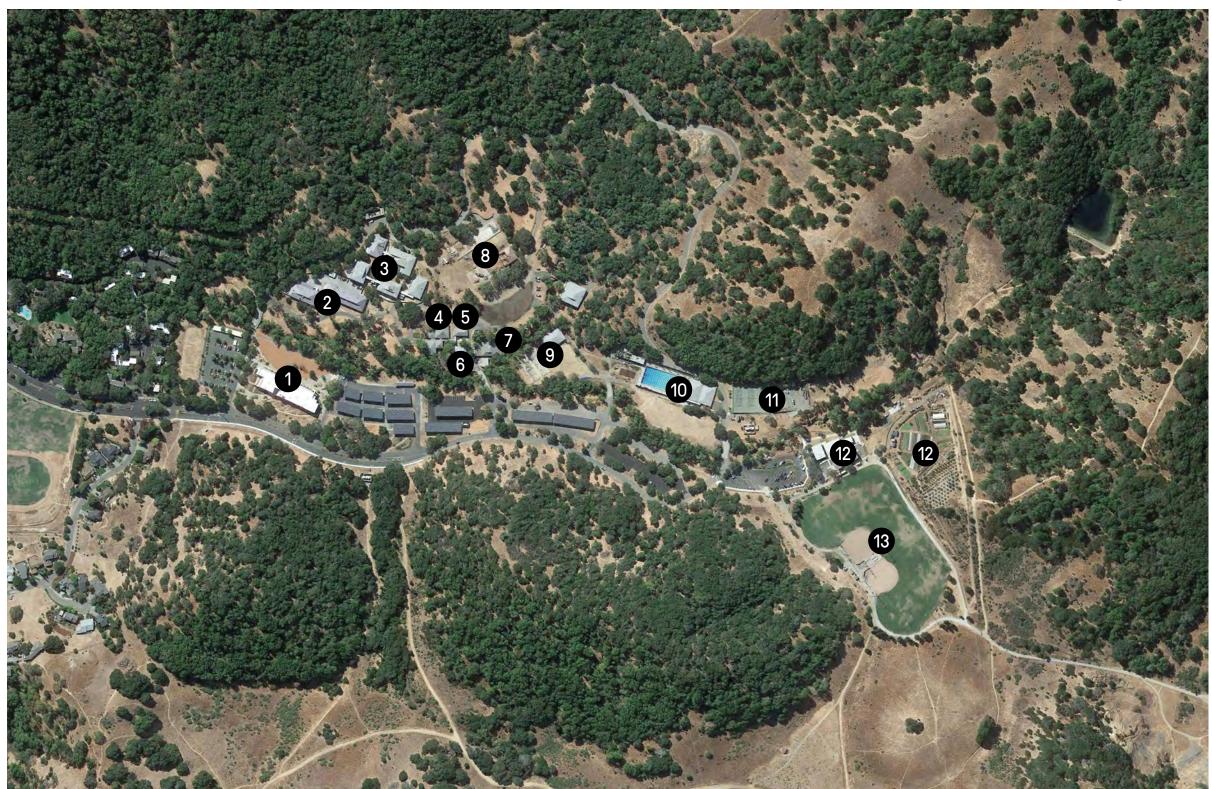
#### **Transformation: Outdoor Classroom**

#### **Proposed**



The Indian Valley Campus is immersed in a beautiful oak woodland, unique among college campuses. One of the ideas mentioned most often by the campus community was the desire for small outdoor classrooms, so professors and instructors can bring seminar sections of 15-20 students outdoors into the beautiful setting on mild weather days. The Landscape Master Plan shows five outdoor classrooms in the oak woodlands along Ignacio Creek as well as uphill of building clusters, from Automotive Technology to the Organic Farm & Garden. The outdoor classrooms are curved seat walls of stacked local stone (graywacke sandstone from Marin's San Rafael Quarry) tucked into the campus' gentle slopes, with a round ottoman of stacked local stone providing a presenter's platform. The surrounding grassland setting under the oak woodland will be restored, where possible, with native species.

### Existing (2018)



- 1 Library
- 2 Automotive Technology
- 3 Pomo Cluster
- 4 Fiscal Services
- 5 ESCOM/Emeritus
- 6 Administrative Services,

**Human Resources** 

- 7 Student Center (Future)
- 8 Miwok Aquatics Center (Fall 2021)
- 9 Jonas Center
- 10 Construction Technology (Future)
- 11 Maintenance & Operations
- 12 Organic Farm & Garden
- 13 Ball Fields

### Campus: Landscape Master Plan

#### **Proposed**



In addition to the Campus Core, the 333 acre campus includes the Organic Farm & Garden, ball fields, and the extensive oak woodland setting. The original pool soon to be replaced by the Miwok Aquatics Center - and the Maintenance & Operations yard are located between the Jonas Center and Organic Farm & Garden. Once the pool is replaced, the building and site will be available for use as additional educational space, potentially for Construction Technology and fabrication. The adjacent lawn area, which previously served swim meets, is shown restored as a native wildflower meadow along the campus main walk.

In the next few years, almost 500 trees and over a thousand shrubs will be planted along Ignacio Creek within the campus. The Landscape Master Plan also shows additional Marin-native shade tree planting in parking lots 1 and 6, in the Library Plaza, and alongside the former pool and Maintenance & Operations yard.

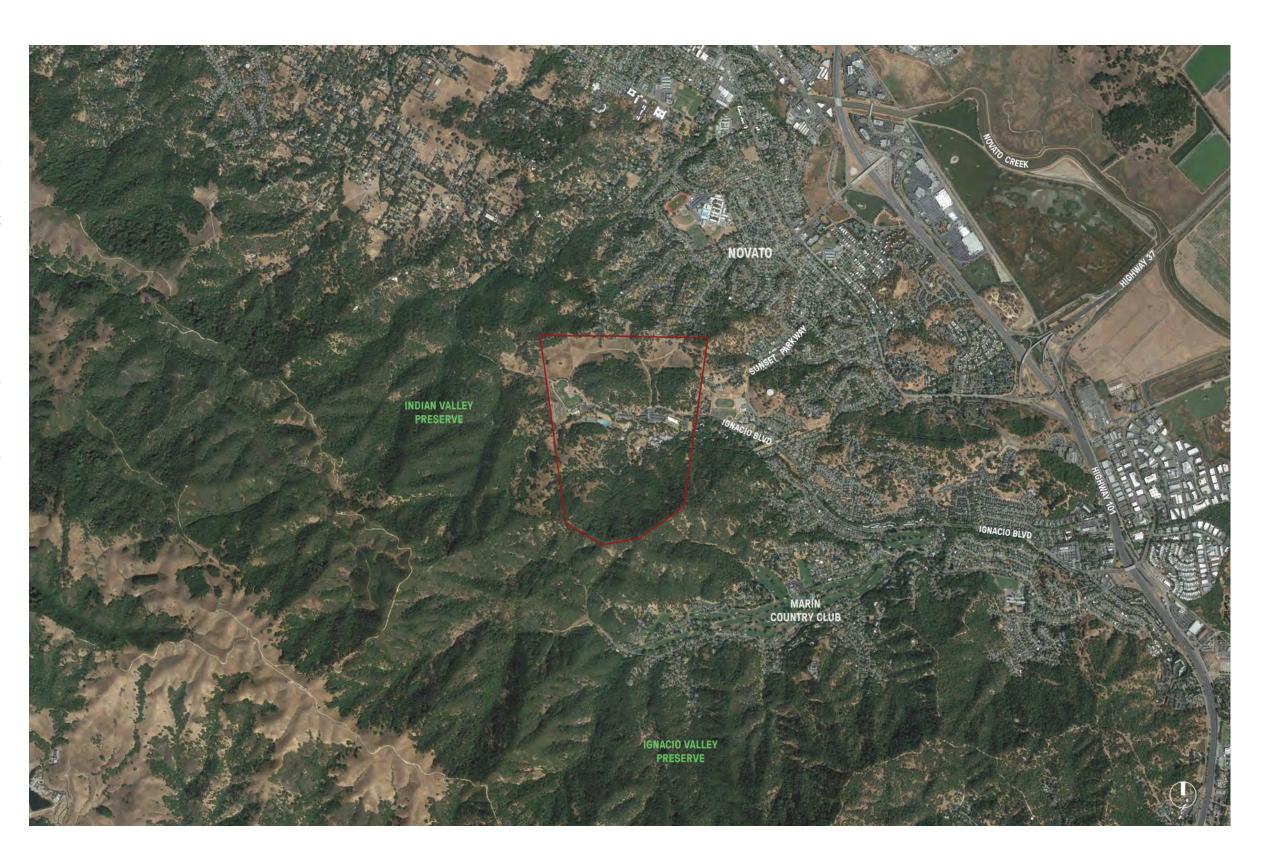
In summary, the Landscape Master Plan establishes a clear, pleasant main walk and linked outdoor spaces for today's distribution of buildings, to create a cohesive, iconic and lasting outdoor framework for the Indian Valley Campus. The plan enhances the linked outdoor spaces with site furnishings so that students, faculty and staff can study, dine and socialize in the campus' beautiful setting. The proposals and associated design guidelines use a light touch which celebrates the Indian Valley Campus' distinct and stunning natural beauty.



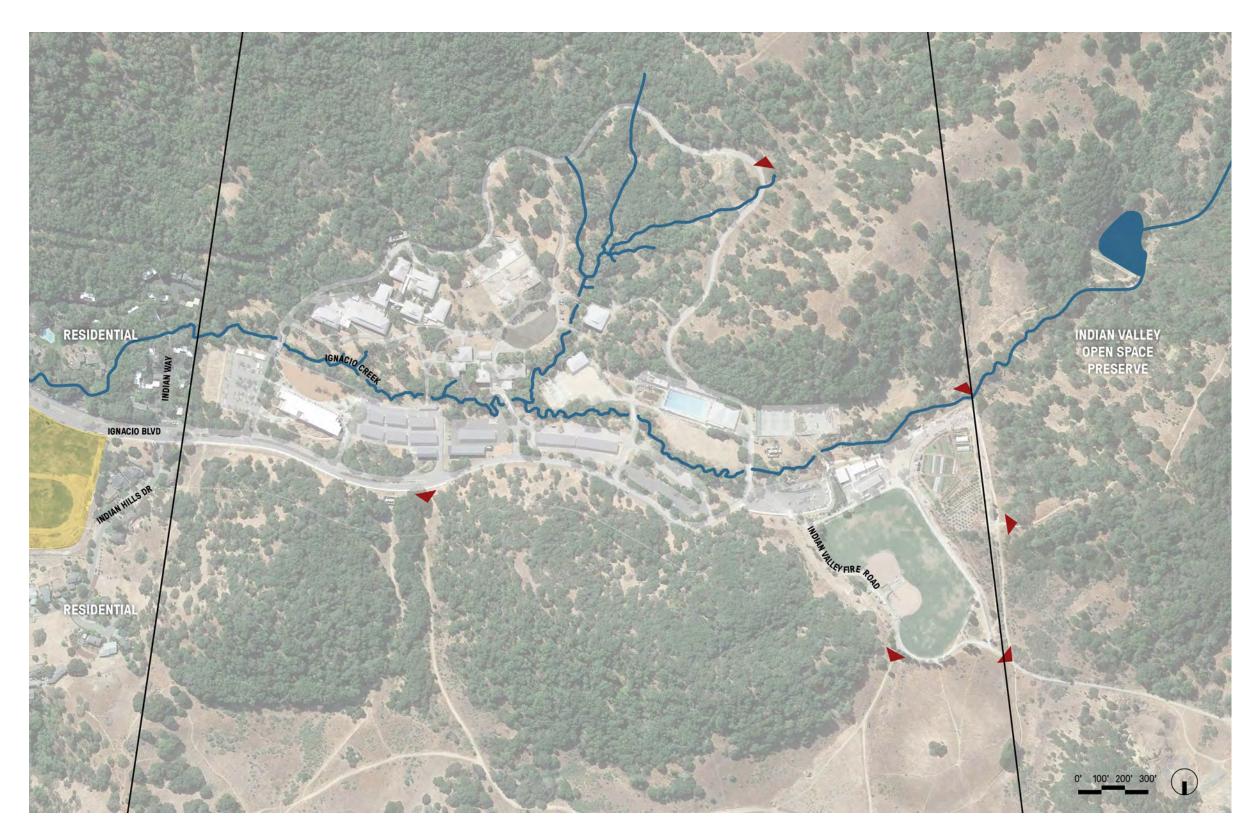
### **Regional Context**

The Indian Valley Campus is located in southwest Novato, at the end of Ignacio Boulevard. The 333 acre campus is surrounded by Marin County Parks' Indian Valley Preserve to the west and Ignacio Valley Preserve to the south. Ignacio Creek runs through the campus core on its way to the San Francisco Bay five miles to the east. The campus lies two-and-a-half miles west of Highway 101, with Ignacio Boulevard and Sunset Parkway providing regional driving access. Marin Transit bus routes connect to Novato and San Rafael and stops in between. Ignacio Boulevard provides walking, biking and micromobility access from the east, with additional access offered by the Indian Valley Fire Road through the Indian Valley Preserve from the north.

Note that north is up (top of page) in this regional exhibit, while all other Indian Valley Campus exhibits are turned 180 degrees with north on the bottom of the page to match the College's campus maps.



# **Neighborhood Context**



The Indian Valley Campus is surrounded by Marin County Park Preserves to the west and south, and residential neighborhoods and the San Jose Middle School to the east. Ignacio Boulevard provides the sole public vehicular access, with additional service/ emergency access via the Indian Valley Fire Road. The campus serves as a trailhead for the popular trails of the Indian Valley Preserve, and in some ways is used by the broader community as an extension of the Preserve.



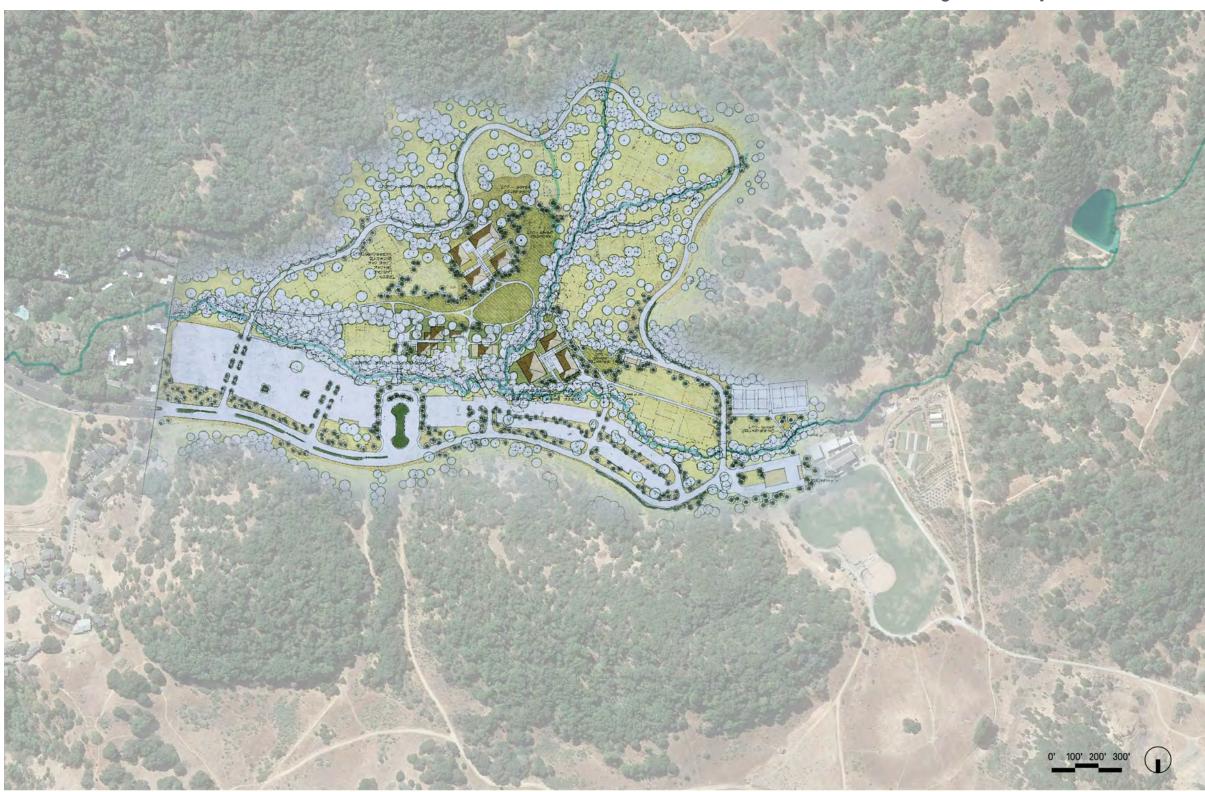
### **Campus Evolution over Time**

The Indian Valley Campus has grown and evolved in the 45 years since it opened in 1975 as Indian Valley College. The campus began with a clear arrangement with the elliptical Campus Green as its outdoor heart, surrounded by building clusters in a pedestrian-only setting interwoven with the oak woodland uphill of Ignacio Creek. Arrival to campus was via a central dropoff/ bus stop and flanking parking on the Ignacio Boulevard side of Ignacio Creek, with a series of bridges providing walking approaches into the campus core. A few building clusters, the ball fields and Organic Farm & Garden were added over time, generally consistent with the original campus arrangement.

Beginning with Measure C funding in 2004 and continuing with Measure B funding in 2016, the College has newly constructed or renovated many buildings and facilities on the Indian Valley Campus. The Library, which was built on the Ignacio Boulevard and parking side of Ignacio Creek, opened in 2010. Because the campus' walk network and outdoor space system have not yet been intentionally designed to catch up with recent building and facility construction, the existing arrival and pedestrian experience is somewhat disjointed.

The Landscape Master Plan anticipates that the overall organization of the campus will remain the same for the foreseeable future. One of the top priorities of this Landscape Master Plan is to establish a clear, pleasant main walk and linked outdoor spaces for today's distribution of buildings, to create a cohesive, iconic and lasting outdoor framework for the Indian Valley Campus.

#### Original Campus Plan (1973)











Indian Valley Campus | College of Marin Landscape Master Plan | 119

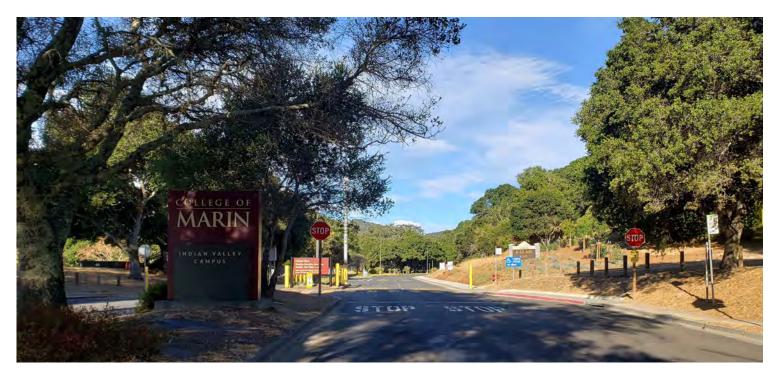
### **Existing Character of Campus: Entrance and Parking**

Entrance and Parking: A large Coast Live Oak and campus sign mark the campus entrance. The entrance would be strengthened by reducing visual clutter and repainting remaining items per the Color Palette. The campus drive leads to six parking lots, three of which are covered with photovoltaic panels. Parking lot P2 includes the dropoff/bus stop shelter which originally served as the main walking gateway. Walking access from parking is via one of six bridges across Ignacio Creek into the campus' pedestrian-only core and oak woodland hillside beyond.

Campus Core: The campus core generally consists of clustered buildings woven into the oak woodland setting. Some buildings and building clusters have raised wood walks and decks which overlook the oak woodland or Creek. The more recent buildings, such as the Library, are larger and less interwoven with the oak woodland. The Jonas and Miwok Centers, the newest buildings, feature large north-facing windows for daylighting and views of beautiful setting.

Organic Farm and Ball Fields: The Organic Farm & Garden and ball fields are located at the west edge of campus, a five minute walk from the Campus Core. The five acre Organic Farm & Garden includes a fenced growing area plus office/classroom and storage sheds clustered around a plaza. The Ball Fields, which are managed by the City of Novato, have beautiful views of the surrounding oak woodland hillsides. The area is the de facto trailhead for several popular trails within the campus and extending to the Indian Valley Preserve.





Campus Entrance with Coast Live Oak and Campus Sign, at end of Ignacio Boulevard



Walking Gateway at Dropoff/Bus Stop Shelter, with Pedestrian Bridge to Campus Core



Parking Lot P2



Bridge from Parking Lots P3 & P4 to Administrative Services

# **Existing Character of Campus: Campus Core**



Library



Miwok Aquatics Center (Opens Fall 2021)



Pomo Cluster Classrooms



Jonas Center Conference Center

# **Existing Character of Campus: Organic Farm and Ball Fields**



Organic Farm & Garden



**Ball Fields** 

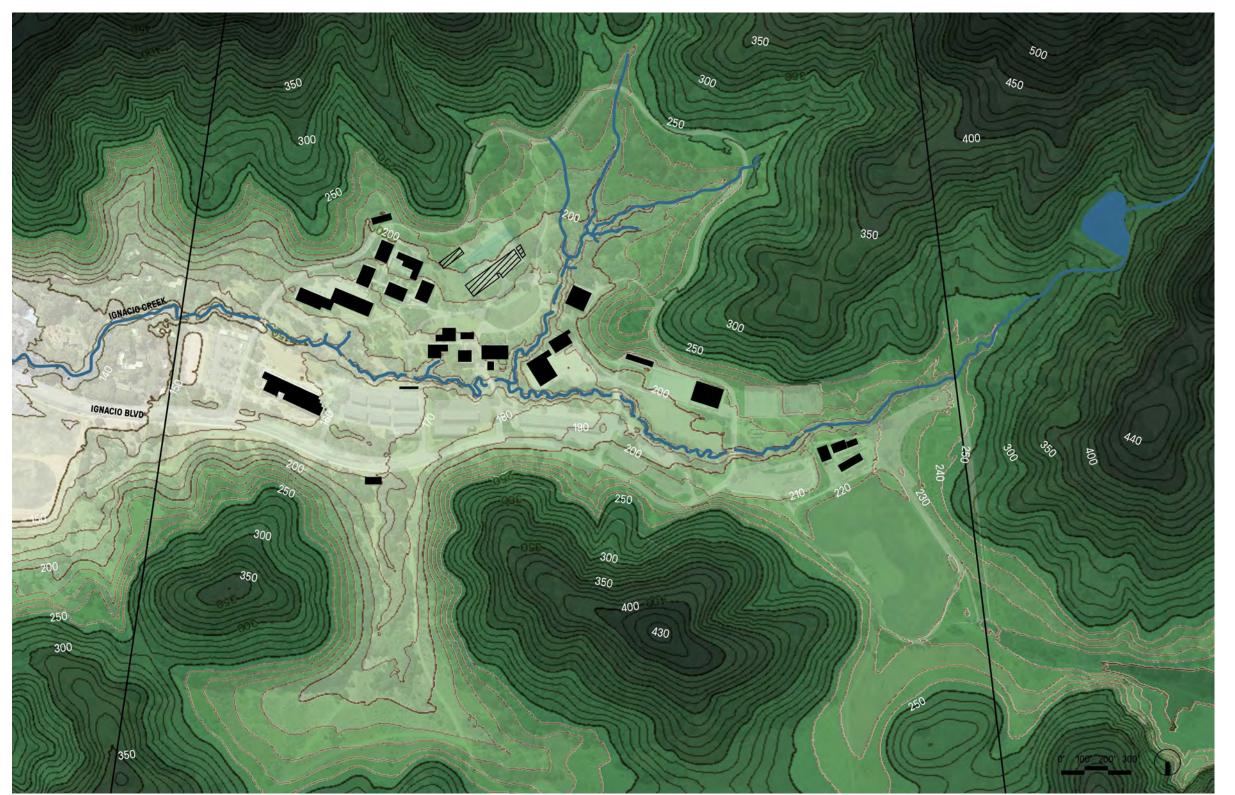


Organic Farm & Garden



Trail to adjacent Indian Valley Preserve

# **Topography & Natural Systems**

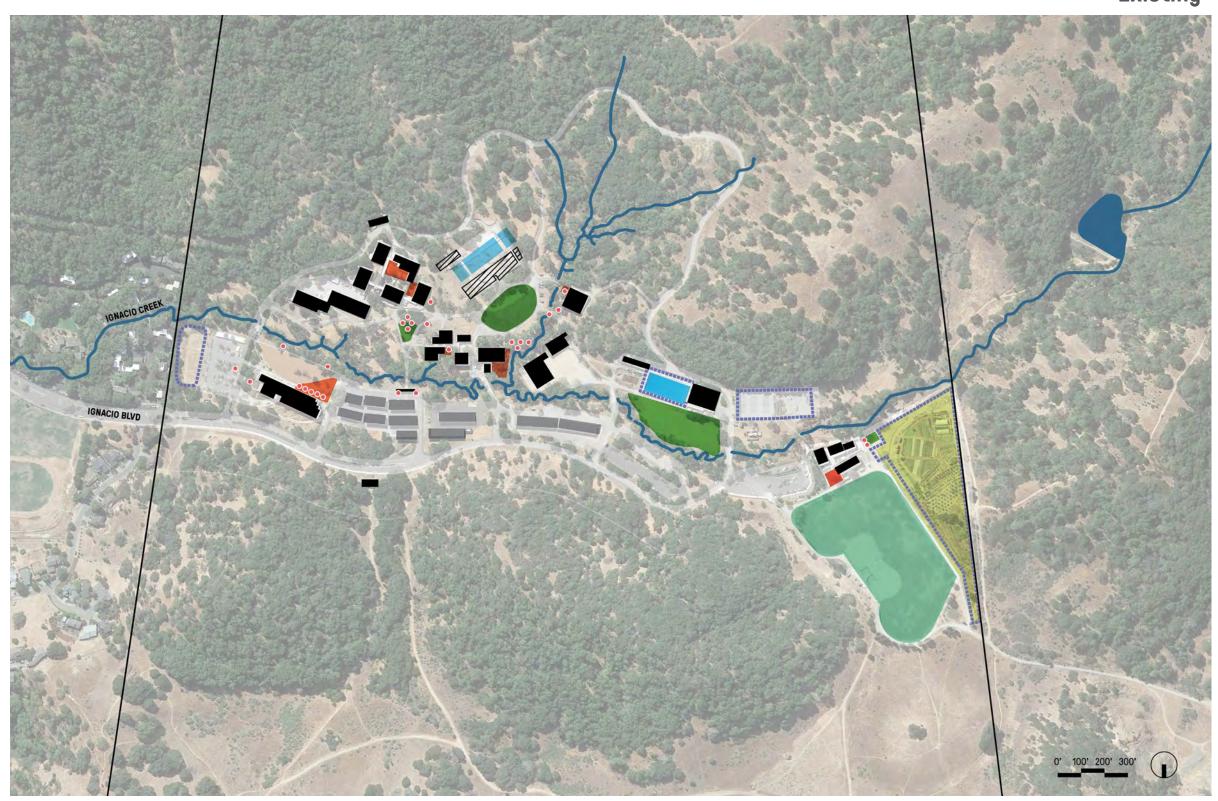


The Indian Valley Campus core straddles Ignacio Creek and is nestled in a gently sloping bay and oak woodland valley surrounded by oak woodland hillsides. The campus buildings and facilities are located between 150 and 250 feet above sea level, with the campus property's flanking hillsides rising to ridgelines over 600 feet to the south and to over 400 feet to the north. A reservoir within the Indian Valley Preserve modulates Ignacio Creek's flows through campus, which reaches the Bay four miles to the east. The oak woodland hillsides of the Indian Valley Preserve enclose the campus to the west.

The Landscape Master Plan proposes increasing tree cover with Marin-native shade tree species, slightly reducing paving through more efficient layouts, and creating a fuller more immersive campus experience with increased ground plane planting with Marin-native species in the campus core. Where possible, the surrounding grassland under the oak woodland will be restored with native species. Significant riparian tree and shrub planting along Ignacio Creek in the next few years will enhance the creek habitat.

Contour (Every 10ft) Creek

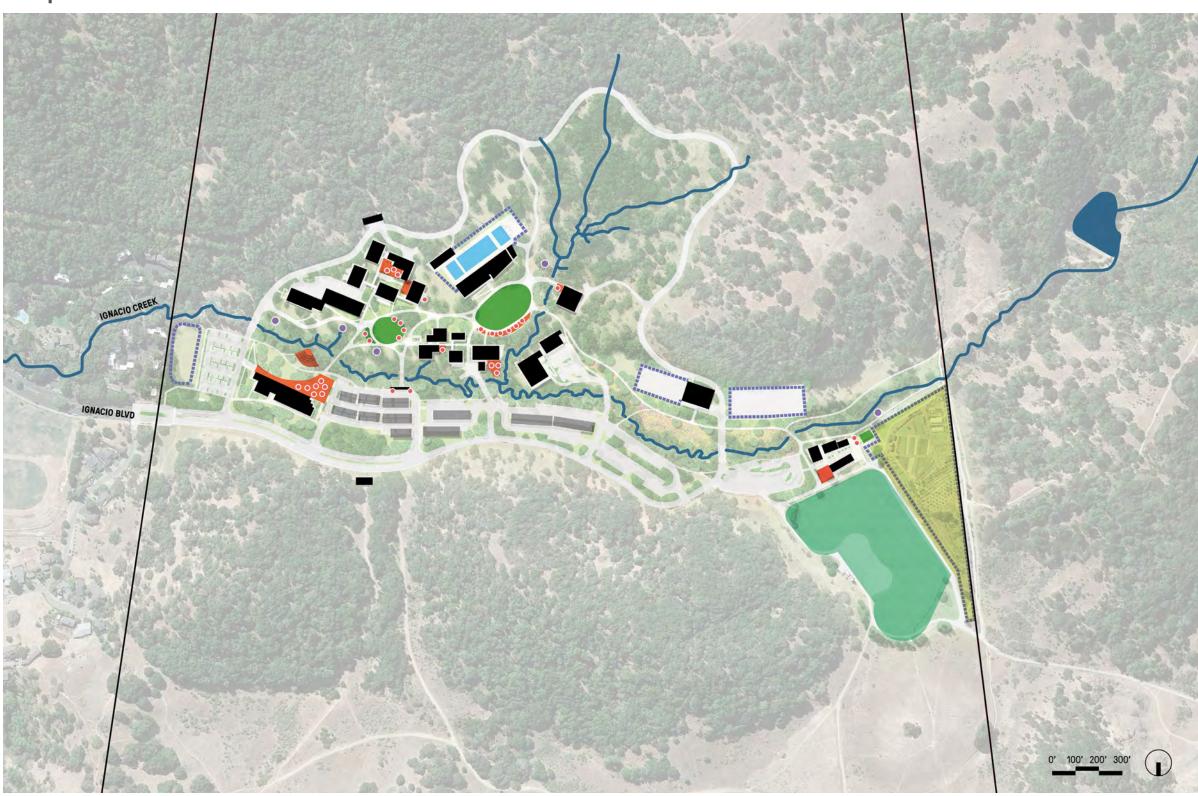
https://www.marinmap.org/Html5Viewer/Index.html?view



Courtyard/Plaza
Meadow Lawn
Outdoor Furniture
Outdoor Classroom
Pool
Sports Fields
Organic Farm & Garden
Fence
Building
Solar Panels over Parking

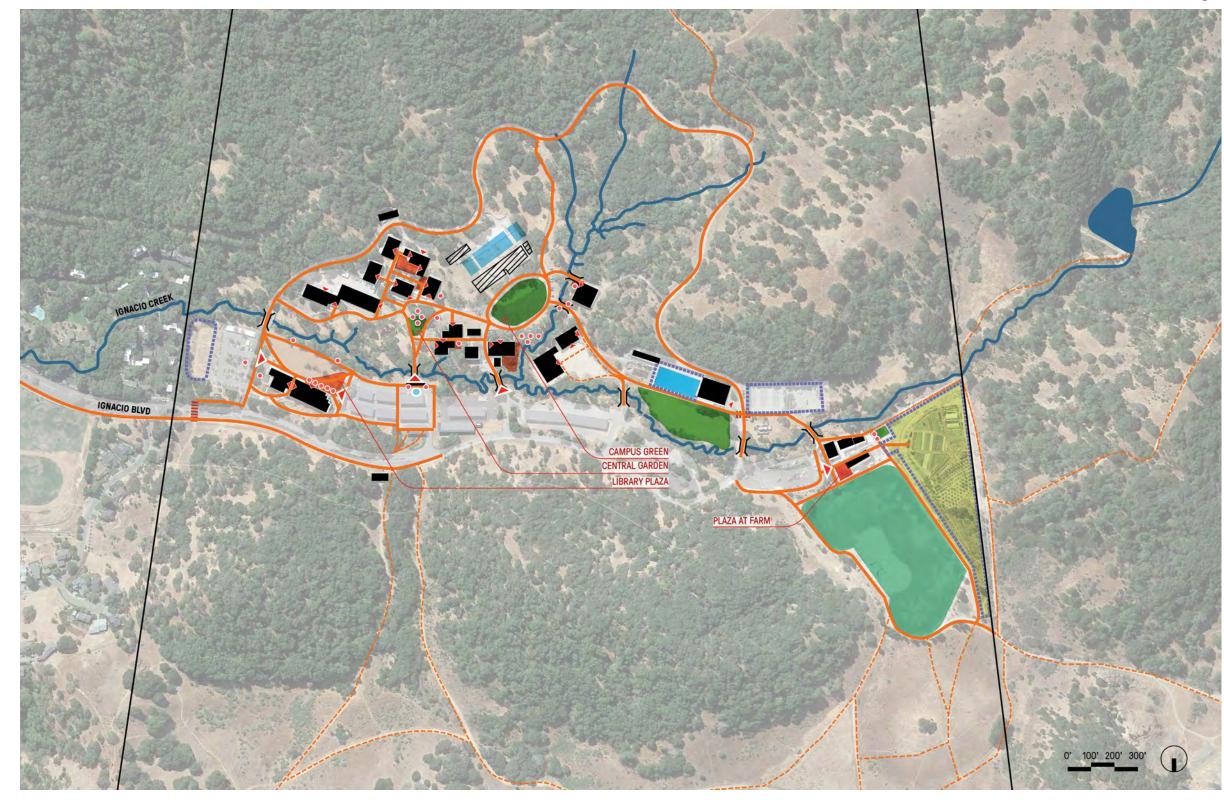
# **Building Massing & Outdoor Space**

#### **Proposed**



The campus' buildings are arranged in a few clusters which are generally interwoven with the oak woodland setting. With the decommissioning of the original pool, the campus core will become more compact again, after becoming somewhat dispersed when the Library was added a decade ago.

With the campus' general arrangement of buildings anticipated to remain similar to the existing in the foreseeable future, the Landscape Master Plan has identified the need to establish a clear, pleasant main walk and linked outdoor spaces - Library Plaza, Central Garden, and Campus Green – for this distribution of buildings. The linked outdoor spaces, enhanced with site furnishings including shade for studying, dining and socializing, will create a cohesive, iconic and lasting outdoor framework for the Indian Valley Campus.



Walk Trail

Main Pedestrian Entrance **Building Entrance** 

Bridge Crosswalk

**Bus Stop** Fence

Courtyard/Plaza Meadow Lawn

**Outdoor Furniture** 

**Outdoor Classroom** 

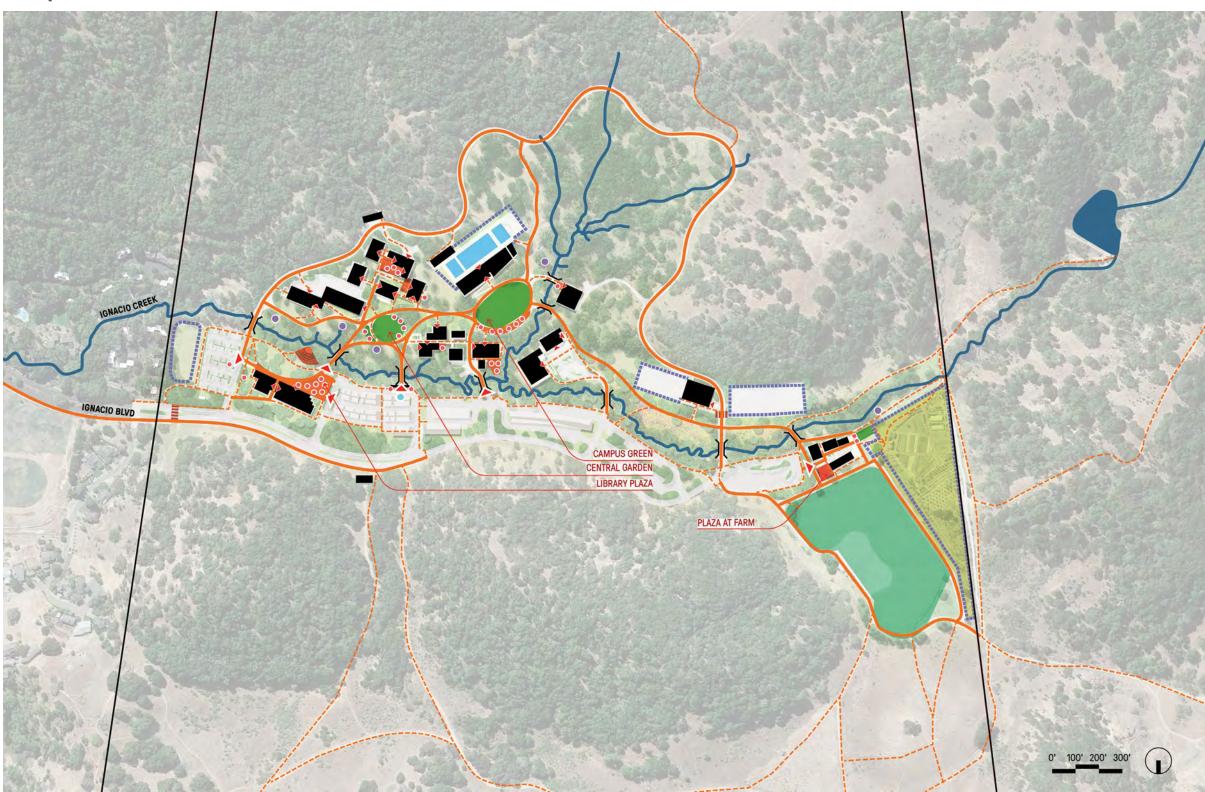
Pool

Sports Fields

Organic Farm & Garden
Building
Solar Panels over Parking

### Walking & Outdoor People Spaces

#### **Proposed**

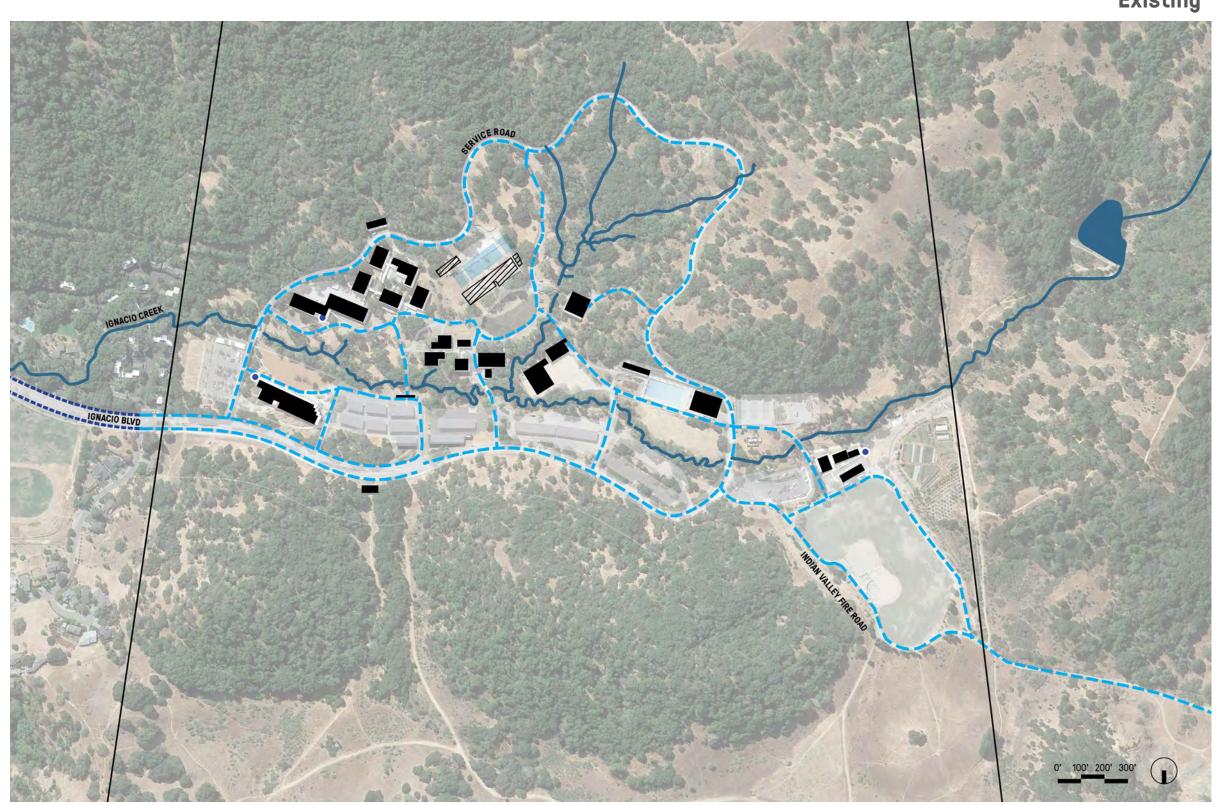


The Indian Valley Campus is predominantly pedestrian-only on the south side of Ignacio Creek, with six bridges providing walking access from Ignacio Boulevard, dropoff/bus stop and parking on the north side of the Creek.

The existing walk network doesn't provide a direct connection between the Library and the rest of the campus, which creates a fragmented experience for both firsttime visitors as well as day-to-day users of campus.

The Landscape Master Plan proposes tying together the campus' buildings and facilities with a clear main walk and series of outdoor spaces. This main walk is shown extending from the Library and enhanced Library Plaza via a new pedestrian bridge over the Ignacio Creek to an enlarged Central Garden, enhanced Campus Green and the Jonas Center and Organic Farm & Garden beyond.

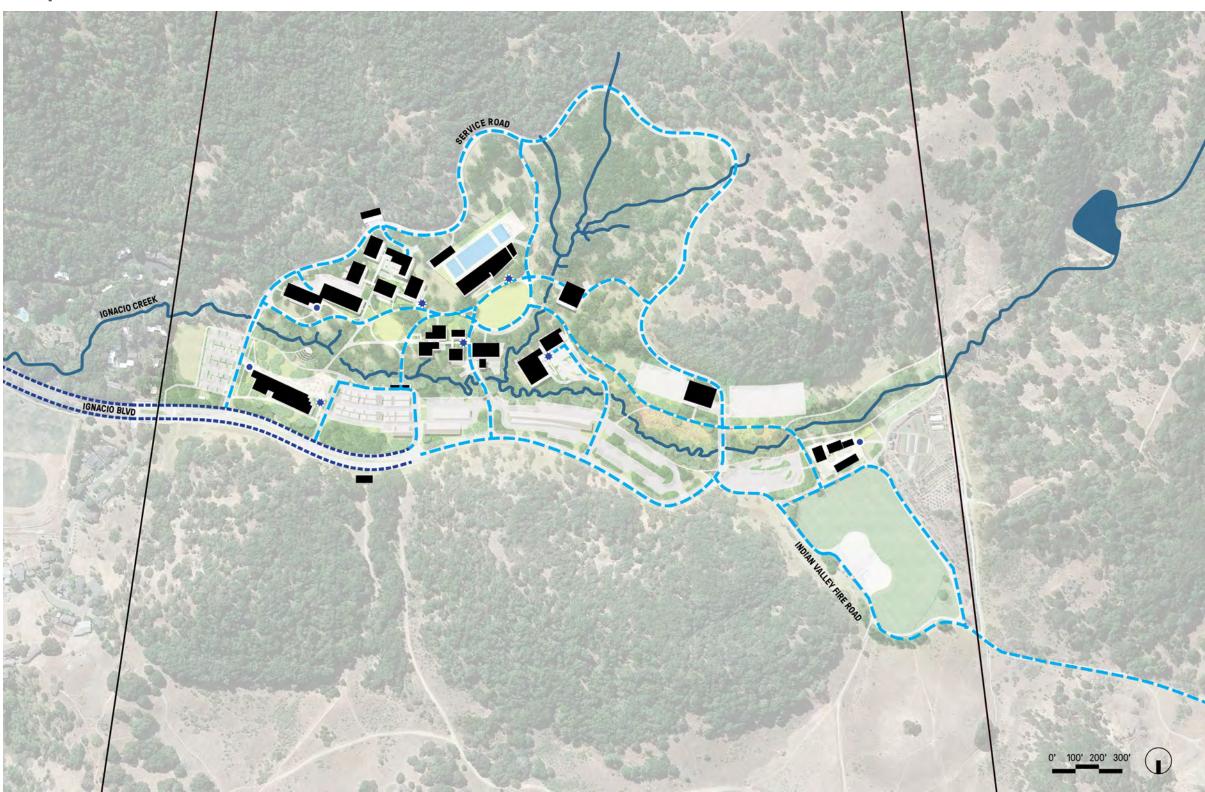
The linked outdoor spaces, as well as the Pomo Cluster courtyard and the future Student Center terrace overlooking the Creek, are enhanced with site furnishings including shade for studying, dining and socializing.



- On-Street Bike Lane Informal Bike Access
   Existing Bike Parking
   Proposed Bike Parking

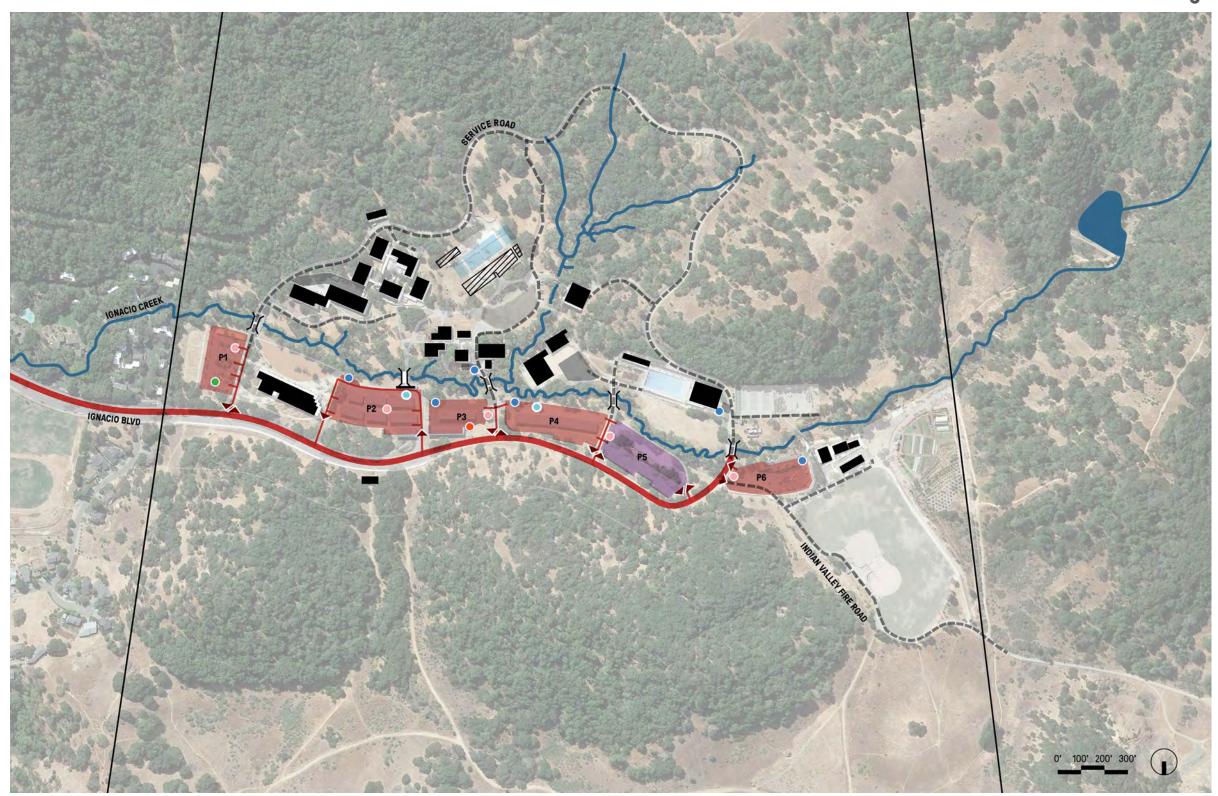
# **Bicycles & Micromobility**

#### **Proposed**



The existing campus is well used by the community for recreational bicycling, with bike lanes along Ignacio Boulevard and the gravel Indian Valley Fire Road providing convenient access from both sides. The Landscape Master Plan further enhances the attractiveness for students, faculty and staff to bike and use other micromobility ebikes, escooters, etc - to access campus, especially as an alternative to driving.

The Landscape Master Plan shows extending bike lanes further into campus, by converting the campus drive's existing four lanes to two lanes plus bike lanes. Convenient, visible bike and micromobility parking shall be provided near building entrances. Providing an outdoor bike pump and repair station as well as charging stations further supports use of bicycles and other micromobility.



Street **Campus Drive** Service/Emergency Access Bridge

**Bus Stop** 

Entrance and Exit to Parking Permit Campus Parking

Staff/ Service Parking

Free Parking

Other Parking

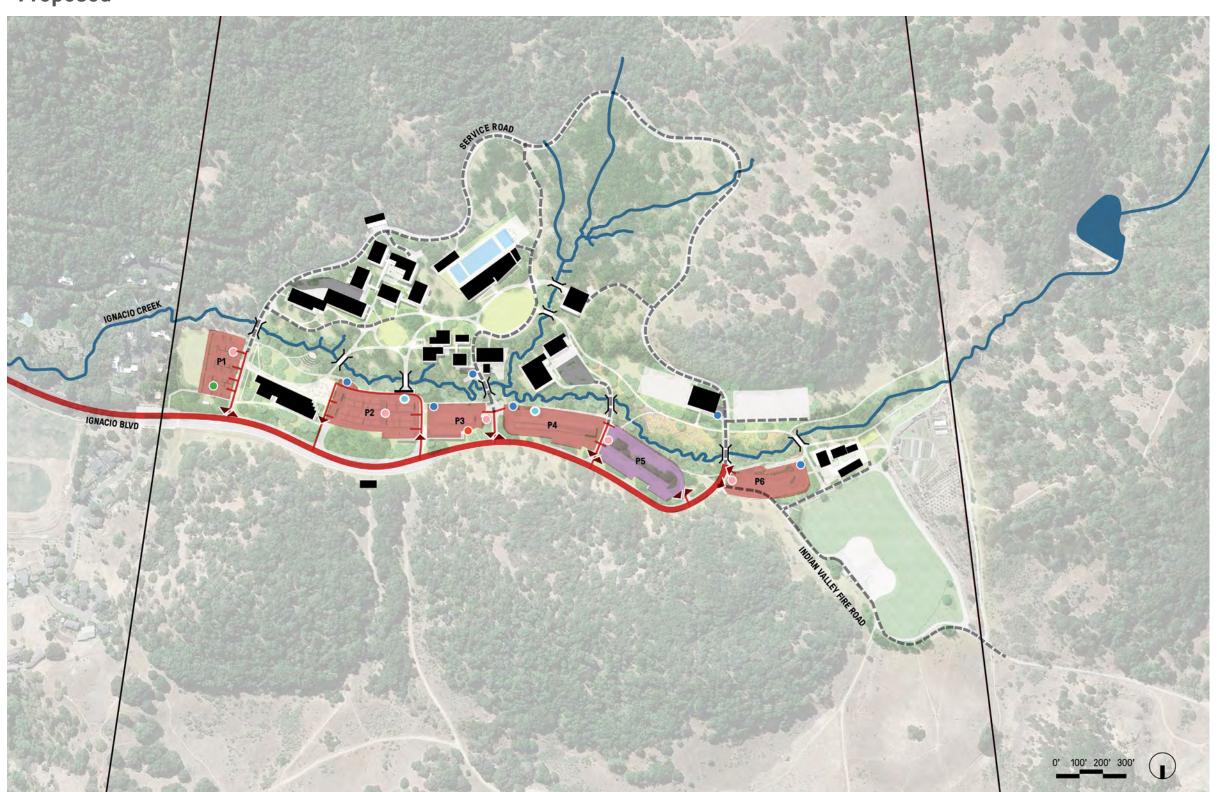
Accessible Parking

Motorcycle Parking Electric Charging Stations

**Ticket Dispensing Machine** 

### **Vehicles & Parking**

#### **Proposed**



Driving access to campus is via Ignacio Boulevard, which continues into campus to connect to six parking lots along the length of campus. An additional small convenience parking area has been recently added across the Creek at the Jonas Center.

A loop road along the campus' south side plus a central spur provide service and emergency access to the pedestrian-only campus core, with access via three bridges across Ignacio Creek that accommodate both pedestrians and vehicles. A fourth pedestrian and vehicular bridge provides access to the Jonas Center.

Marin Transit bus routes 251 and 257 serve the campus at the dropoff/bus stop and shelter alongside lot P2.

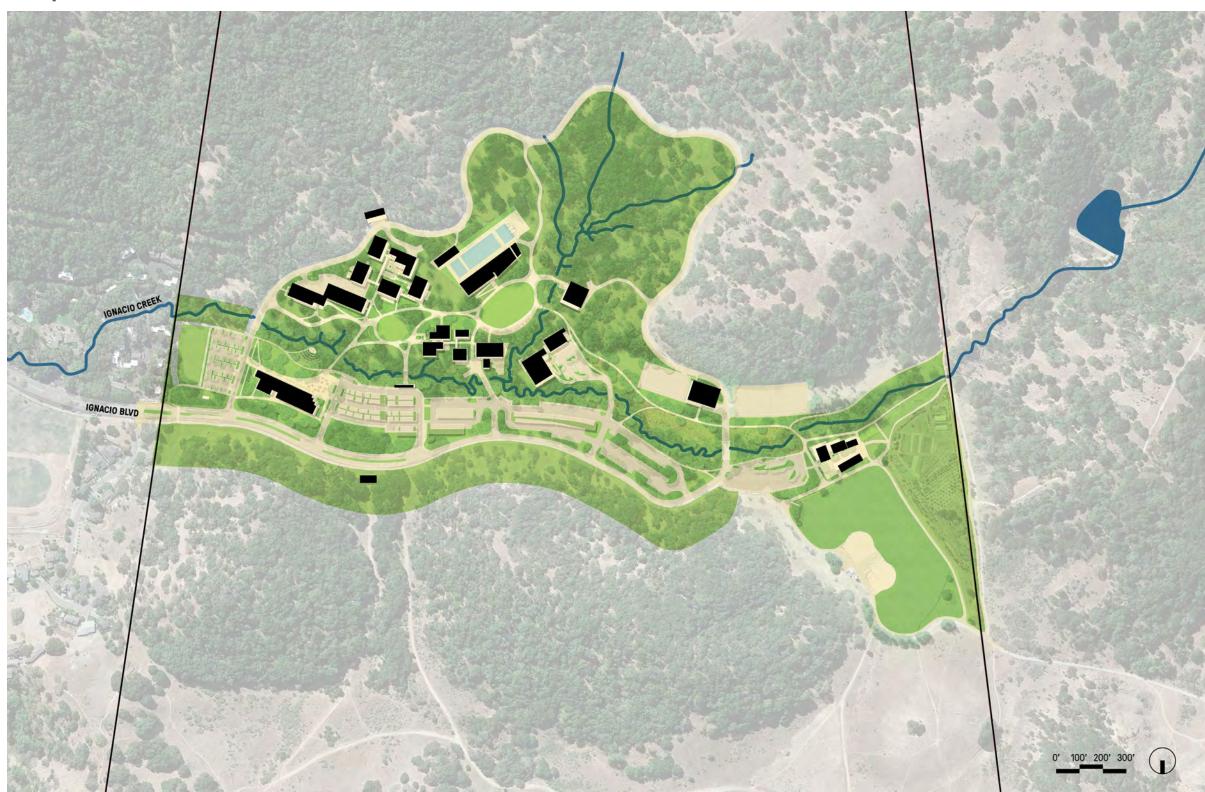
The Landscape Master Plan shows extending bike lanes into campus by converting the campus drive's existing portion of four lanes to two lanes plus bike lanes. Once the original pool is decommissioned, the vehicular service access in that area can be eliminated to enhance the arrival experience to the Jonas Center. To create a more intuitive relationship between parking and the campus, consider naming parking areas with place-based names, for example Library lot and Trailhead lot.



Vegetation Hardscape

# **Vegetation & Hardscape**

#### **Proposed**



The Indian Valley Campus has the character of a "nature preserve" with extensive native tree canopy and a predominantly unirrigated ground plane. Much of the hardscape is drives and parking, with buildings, the pool deck, Maintenance & Operation yard, and walks comprising the balance.

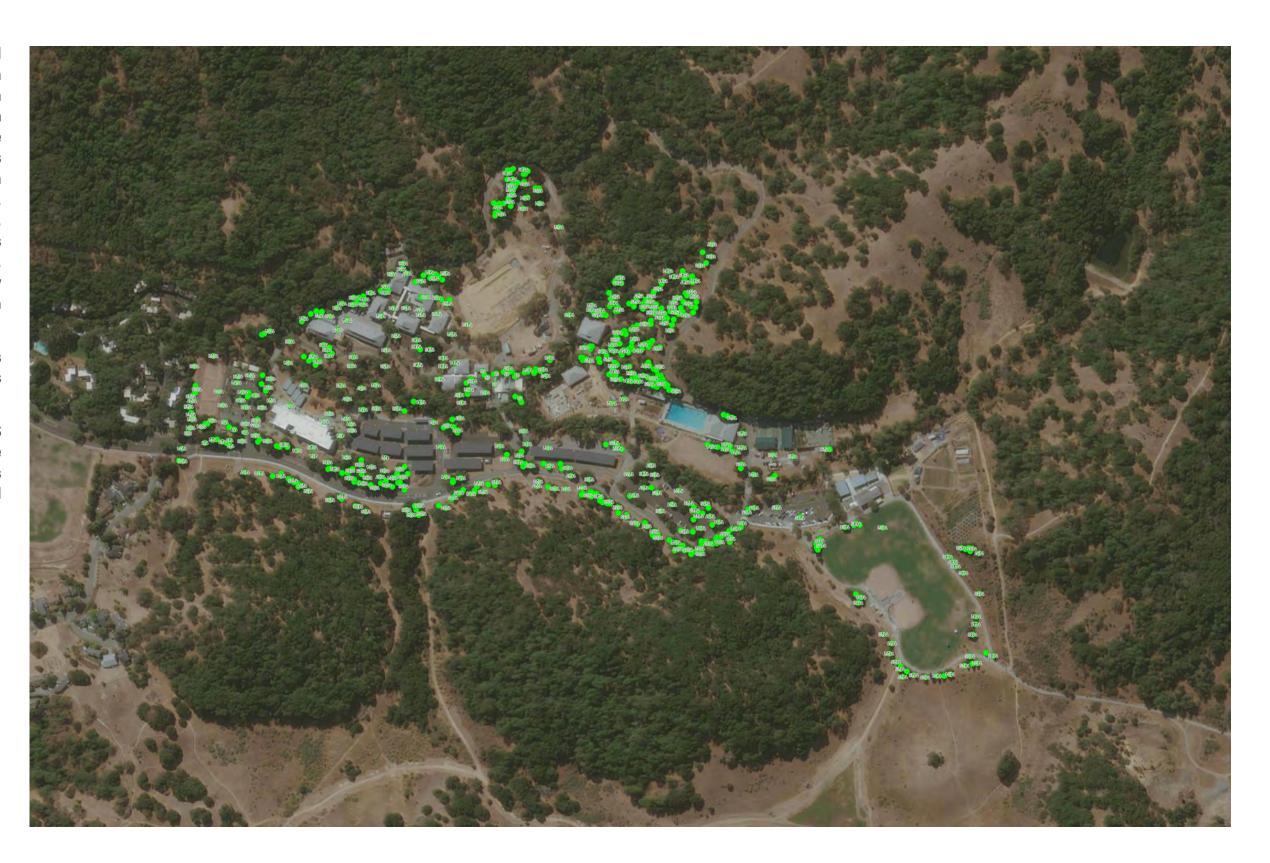
The Landscape Master Plan proposes building on the campus' "nature preserve" character, by slightly reducing paving through more efficient layouts, increasing tree cover with shade tree species native to the Indian Valley watershed, and creating a fuller more immersive experience in the campus core with increased ground plane planting with species native to the Indian Valley watershed. Where possible, the surrounding grassland under the oak woodland will be restored with native species. Significant riparian tree and shrub planting along Ignacio Creek in the next few years will restore creek habitat.

# **Vegetation Inventory: Trees**

The Indian Valley Campus' 75 acre developed core includes more than 1700 trees with trunks 6" diameter or greater, of nineteen species, as inventoried and tagged by Marin arborists Urban Forestry Associates. The vast majority of these trees are species native to the Indian Valley watershed, with 90% evenly split between Coast Live Oaks, mostly on the slopes, and California Bays, mostly along Ignacio Creek. Other trees are native Valley Oaks, Interior Live Oaks, California Buckeye, and Madrone, plus a few trees of introduced species such as English Oak, Cork Oak, Crape Myrtle, and Silk Tree.

The balance of the 333 acre property has thousands of additional oak woodland trees native to the Indian Valley watershed.

The tree inventory is available in GIS (partial), AutoCAD (complete), and on the associated matrix on the following pages as a campus planning and design tool as well as a teaching resource.



Tree	Species	Latin Name	Native/	Diame	ter	
Number			Introduced	Stem 1	Stem 2	Ste
1	California Bay	Umbellularia californica	N	17	14	13
2	Coast live oak	Quercus agrifolia	N	14		╙
3	California Bay	Umbellularia californica	N	19	10	10
5	Coast live oak	Quercus agrifolia  Quercus agrifolia	N N	22 18	-	$\vdash$
6	Coast live oak Coast live oak	Quercus agrifolia	N	28		+
10	California Bay	Umbellularia californica	N	10		+
12	California Bay	Umbellularia californica	N	16	16	+
14	Coast live oak	Quercus agrifolia	N	14	1	$\vdash$
15	Coast live oak	Quercus agrifolia	N	30		
16	California Bay	Umbellularia californica	N	9	8	
17	Coast live oak	Quercus agrifolia	N	8	6	
18	Coast live oak	Quercus agrifolia	N	26		<u> </u>
19	California Bay	Umbellularia californica	N	16		╄
20	California Bay	Umbellularia californica	N	11	-	$\vdash$
21	Coast live oak	Quercus agrifolia	N	18	18	$\vdash$
23	Coast live oak	Quercus agrifolia	N	25	-	⊬
24	California Bay	Umbellularia californica	N N	9 27		╁
26	Coast live oak  Coast live oak	Quercus agrifolia  Quercus agrifolia	N	21	+	+
27	California Bay	Umbellularia californica	N	6	4	╁
28	California Bay	Umbellularia californica	N	8	3	$\vdash$
29	Black Oak	Quercus kelloggii	N	27	1	+
30	Coast live oak	Quercus agrifolia	N	20		T
31	Valley oak	Quercus lobata	N	13		
33	Coast live oak	Quercus agrifolia	N	20	19	15
34	Coast live oak	Quercus agrifolia	N	9		
38	Coast live oak	Quercus agrifolia	N	19		
39	California Bay	Umbellularia californica	N	10	9	
40	California Bay	Umbellularia californica	N	9		
42	California Bay	Umbellularia californica	N	10		╙
44	Coast live oak	Quercus agrifolia	N	23	_	╄
45	Coast live oak	Quercus agrifolia	N	20	18	-
46	Valley oak	Quercus lobata	N	13	-	╄
47	Coast live oak	Quercus agrifolia	N	12	1.4	-
49	Coast live oak	Quercus agrifolia	N N	18	14	7
50	Coast live oak Coast live oak	Quercus agrifolia  Quercus agrifolia	N	19	9	+
52	Coast live oak	Quercus agrifolia	N	28		+
53	California Bay	Umbellularia californica	N	32		t
55	Coast live oak	Quercus agrifolia	N	16		T
57	Coast live oak	Quercus agrifolia	N	18		
58	Coast live oak	Quercus agrifolia	N	13		
59	Coast live oak	Quercus agrifolia	N	13		
60	Coast live oak	Quercus agrifolia	N	15		
61	California Bay	Umbellularia californica	N	18		
62	Coast live oak	Quercus agrifolia	N	25	25	┺
64	California Bay	Umbellularia californica	N	9		╄
65	Coast live oak	Quercus agrifolia	N	14	-	╄
66	Coast live oak	Quercus agrifolia	N	18	1.4	10
67	California Bay	Umbellularia californica	N	22	14	12
68 71	Coast live oak	Quercus agrifolia	N	20	1.4	-
	Coast live oak Coast live oak	Quercus agrifolia  Quercus agrifolia	N N	16 9	14	╆
73 74	California Bay	Umbellularia californica	N	14		+
75	Valley oak	Quercus lobata	N	23		+
76	Coast live oak	Quercus agrifolia	N	28	<del>                                     </del>	$\vdash$
79	California Bay	Umbellularia californica	N	12		T
80	Coast live oak	Quercus agrifolia	N	16	8	
81	Coast live oak	Quercus agrifolia	N	11		İ
84	Coast live oak	Quercus agrifolia	N	10		
85	Coast live oak	Quercus agrifolia	N	16	10	
86	Coast live oak	Quercus agrifolia	N	11	6	
87	Coast live oak	Quercus agrifolia	N	10		
88	Coast live oak	Quercus agrifolia	N	12	12	$\Box$
91	Coast live oak	Quercus agrifolia	N	12	11	$\perp$
93	Coast live oak	Quercus agrifolia	N	12	_	
96	Coast live oak	Quercus agrifolia	N	15	12	
97	Coast live oak	Quercus agrifolia	N	13	13	9

99							
103	98	Coast live oak	Quercus agrifolia	N	11	10	5
103	99	Coast live oak	Quercus agrifolia	N	10		
104	103		· · · · · · · · · · · · · · · · · · ·	N	_	10	
107		+		+			
108				+	_		
110		+				12	12
112					_		12
116		+	-				-
122				_			-
124				+		7	5
125			<del> </del>		-		
127	124	Coast live oak	Quercus agrifolia	N	9		
132	125	Coast live oak	Quercus agrifolia	N	10		
133	127	Coast live oak	Quercus agrifolia	N	10		
135	132	Coast live oak	Quercus agrifolia	N	13		
136	133	Valley oak	Quercus lobata	N	11		
136	135	Coast live oak	Quercus agrifolia	N	12		
139	136	Coast live oak	-	N	26		
141				+	_		
146		+					
147				+			
148		+			_		
153		_		+	_		-
160			-			9	-
161					_		
167				+			
168	161	Coast live oak	Quercus agrifolia	N	8		
169	167	Coast live oak	Quercus agrifolia	N	10	8	8
170	168	Coast live oak	Quercus agrifolia	N	8		
170	169	Coast live oak	Quercus agrifolia	N	11	8	
172					_	_	
174		+		+			
175					_		
177		+				-	
178					_	3	
180		+					-
182			· · · · · · · · · · · · · · · · · · ·	+	_	8	7
183				+			
184	-				_		
185	183	Coast live oak	Quercus agrifolia	N	_	8	
188	184	Coast live oak	Quercus agrifolia	N	7	6	
190	185	Coast live oak	Quercus agrifolia	N	14		
193	188	Coast live oak	Quercus agrifolia	N	18		
194	190	Coast live oak	Quercus agrifolia	N	10		
194	193	Coast live oak	Quercus agrifolia	N	10		
195	194	+		N	14		i e
198			-	+			
199		+		1	_	11	7
200					_	11	l'
201		<del></del>	<del> </del>	+		15	9
202         Coast live oak         Quercus agrifolia         N         11           203         Coast live oak         Quercus agrifolia         N         9         9           204         Coast live oak         Quercus agrifolia         N         16         10         1           205         Coast live oak         Quercus agrifolia         N         8         8         8           206         Coast live oak         Quercus agrifolia         N         9         7         2           208         Coast live oak         Quercus agrifolia         N         8         8         8           209         Coast live oak         Quercus agrifolia         N         11         11         12           210         Coast live oak         Quercus agrifolia         N         10         9         6           211         Coast live oak         Quercus agrifolia         N         10         5         13         13         10         5         13         13         13         13         14         Coast live oak         Quercus agrifolia         N         6         13         13         13         13         12         12         12         12         12 <td< td=""><td></td><td></td><td></td><td></td><td>_</td><td>15</td><td>9</td></td<>					_	15	9
203		+					
204							
205         Coast live oak         Quercus agrifolia         N         8         8           206         Coast live oak         Quercus agrifolia         N         9         7           208         Coast live oak         Quercus agrifolia         N         8         8         8           209         Coast live oak         Quercus agrifolia         N         11         11           210         Coast live oak         Quercus agrifolia         N         10         9         6           211         Coast live oak         Quercus agrifolia         N         10         5         1           212         Coast live oak         Quercus agrifolia         N         10         5         1           213         Coast live oak         Quercus agrifolia         N         13         1         1         1           214         Coast live oak         Quercus agrifolia         N         6         6         1		+		+	_	1	
206         Coast live oak         Quercus agrifolia         N         9         7           208         Coast live oak         Quercus agrifolia         N         8         8         1           209         Coast live oak         Quercus agrifolia         N         11         11         11         11         11         12					_		8
208         Coast live oak         Quercus agrifolia         N         8         8         8           209         Coast live oak         Quercus agrifolia         N         11           210         Coast live oak         Quercus agrifolia         N         10         9           211         Coast live oak         Quercus agrifolia         N         10         9         0           212         Coast live oak         Quercus agrifolia         N         10         5           213         Coast live oak         Quercus agrifolia         N         13         13           214         Coast live oak         Quercus agrifolia         N         6         2           215         Pacific Madrone         Arbutus menziesii         N         7         7           217         Coast live oak         Quercus agrifolia         N         13         12         12         12           218         Coast live oak         Quercus agrifolia         N         12         12         12         12           220         Coast live oak         Quercus agrifolia         N         11         11         12           221         Coast live oak         Quercus agrifolia <td< td=""><td>205</td><td>Coast live oak</td><td>Quercus agrifolia</td><td>N</td><td>8</td><td>8</td><td></td></td<>	205	Coast live oak	Quercus agrifolia	N	8	8	
209	206	Coast live oak	Quercus agrifolia	N	9	7	
209	208	Coast live oak	Quercus agrifolia	N	8	8	8
210	209	Coast live oak		N	11		
211         Coast live oak         Quercus agrifolia         N         10         9           212         Coast live oak         Quercus agrifolia         N         10         5           213         Coast live oak         Quercus agrifolia         N         13           214         Coast live oak         Quercus agrifolia         N         6           215         Pacific Madrone         Arbutus menziesii         N         7           217         Coast live oak         Quercus agrifolia         N         13           218         Coast live oak         Quercus agrifolia         N         12         12           219         Pacific Madrone         Arbutus menziesii         N         12         12           220         Coast live oak         Quercus agrifolia         N         11         11           221         Coast live oak         Quercus agrifolia         N         9         12           224         Coast live oak         Quercus agrifolia         N         18           225         Coast live oak         Quercus agrifolia         N         18           226         Coast live oak         Quercus agrifolia         N         18				+	_		
212         Coast live oak         Quercus agrifolia         N         10         5           213         Coast live oak         Quercus agrifolia         N         13           214         Coast live oak         Quercus agrifolia         N         6           215         Pacific Madrone         Arbutus menziesii         N         7           217         Coast live oak         Quercus agrifolia         N         13           218         Coast live oak         Quercus agrifolia         N         12         12           219         Pacific Madrone         Arbutus menziesii         N         12         12           220         Coast live oak         Quercus agrifolia         N         11         11           221         Coast live oak         Quercus agrifolia         N         9         12           224         Coast live oak         Quercus agrifolia         N         18         18           225         Coast live oak         Quercus agrifolia         N         18         12           226         Coast live oak         Quercus agrifolia         N         13         10         1			-	+	_	9	6
213				_		_	Ė
214         Coast live oak         Quercus agrifolia         N         6           215         Pacific Madrone         Arbutus menziesii         N         7           217         Coast live oak         Quercus agrifolia         N         13           218         Coast live oak         Quercus agrifolia         N         12         12           219         Pacific Madrone         Arbutus menziesii         N         12         12           220         Coast live oak         Quercus agrifolia         N         11         11           221         Coast live oak         Quercus agrifolia         N         9         9           224         Coast live oak         Quercus agrifolia         N         18         18           225         Coast live oak         Quercus agrifolia         N         18         18           226         Coast live oak         Quercus agrifolia         N         13         10					_	Ť	<b>+</b>
215         Pacific Madrone         Arbutus menziesii         N         7           217         Coast live oak         Quercus agrifolia         N         13           218         Coast live oak         Quercus agrifolia         N         12         12         1           219         Pacific Madrone         Arbutus menziesii         N         12         12         2           220         Coast live oak         Quercus agrifolia         N         11         11           221         Coast live oak         Quercus agrifolia         N         9         2           224         Coast live oak         Quercus agrifolia         N         18         18           225         Coast live oak         Quercus agrifolia         N         18         18           226         Coast live oak         Quercus agrifolia         N         13         10         1		_			_		
217         Coast live oak         Quercus agrifolia         N         13           218         Coast live oak         Quercus agrifolia         N         12         12         1           219         Pacific Madrone         Arbutus menziesii         N         12         12           220         Coast live oak         Quercus agrifolia         N         11         11           221         Coast live oak         Quercus agrifolia         N         9         9           224         Coast live oak         Quercus agrifolia         N         18           225         Coast live oak         Quercus agrifolia         N         18           226         Coast live oak         Quercus agrifolia         N         13         10         7					_	-	<del>                                     </del>
218         Coast live oak         Quercus agrifolia         N         12         12         12           219         Pacific Madrone         Arbutus menziesii         N         12         12           220         Coast live oak         Quercus agrifolia         N         11         11           221         Coast live oak         Quercus agrifolia         N         9         9           224         Coast live oak         Quercus agrifolia         N         18         18           225         Coast live oak         Quercus agrifolia         N         18         18           226         Coast live oak         Quercus agrifolia         N         13         10         13		+	<del></del>	+		-	
219         Pacific Madrone         Arbutus menziesii         N         12           220         Coast live oak         Quercus agrifolia         N         11           221         Coast live oak         Quercus agrifolia         N         9           224         Coast live oak         Quercus agrifolia         N         18           225         Coast live oak         Quercus agrifolia         N         18           226         Coast live oak         Quercus agrifolia         N         13         10							-
220         Coast live oak         Quercus agrifolia         N         11           221         Coast live oak         Quercus agrifolia         N         9           224         Coast live oak         Quercus agrifolia         N         18           225         Coast live oak         Quercus agrifolia         N         18           226         Coast live oak         Quercus agrifolia         N         13         10			-	+	_	12	8
221         Coast live oak         Quercus agrifolia         N         9           224         Coast live oak         Quercus agrifolia         N         18           225         Coast live oak         Quercus agrifolia         N         18           226         Coast live oak         Quercus agrifolia         N         13         10					_		
224         Coast live oak         Quercus agrifolia         N         18           225         Coast live oak         Quercus agrifolia         N         18           226         Coast live oak         Quercus agrifolia         N         13         10	220		Quercus agrifolia	N	11		
225         Coast live oak         Quercus agrifolia         N         18           226         Coast live oak         Quercus agrifolia         N         13         10	221	Coast live oak	Quercus agrifolia	N	9		
225         Coast live oak         Quercus agrifolia         N         18           226         Coast live oak         Quercus agrifolia         N         13         10         :	224	Coast live oak	Quercus agrifolia	N	18		
226 Coast live oak Quercus agrifolia N 13 10 7	225	_	-	N	18		
						10	7
	228	Pacific Madrone	Arbutus menziesii	N	10		
230 Coast live oak Quercus agrifolia N 10							
	230	C 11 1	Quereus agriiona	27	10		<del>                                     </del>

232	Coast live oak	Quercus agrifolia	N	13		
236	Coast live oak	Quercus agrifolia	N	13		T
237	Coast live oak	Quercus agrifolia	N	13	12	8
		-	+	1	+12	+
238	Coast live oak	Quercus agrifolia	N	9	1_	1_
239	Coast live oak	Quercus agrifolia	N	8	7	7
242	Coast live oak	Quercus agrifolia	N	12		
243	Coast live oak	Quercus agrifolia	N	19		
244	Coast live oak	Quercus agrifolia	N	12	1	1
245	Coast live oak	Quercus agrifolia	N	12	+	+
		-		+	+	+
248	Coast live oak	Quercus agrifolia	N	18	ļ	1
249	Coast live oak	Quercus agrifolia	N	11	9	7
250	Valley oak	Quercus lobata	N	22		
251	Coast live oak	Quercus agrifolia	N	8	1	1
252	California Bay	Umbellularia californica	N	11	8	+
			-	+	_	+-
253	Coast live oak	Quercus agrifolia	N	11	7	+
255	Coast live oak	Quercus agrifolia	N	12	7	
257	Coast live oak	Quercus agrifolia	N	11		
259	Pacific Madrone	Arbutus menziesii	N	10		
261	Pacific Madrone	Arbutus menziesii	N	12	$\dagger$	+-
262		<del> </del>	N	9	7	+-
	Coast live oak	Quercus agrifolia		+	-	+
263	California Bay	Umbellularia californica	N	8		
265	Coast live oak	Quercus agrifolia	N	9		
266	Coast live oak	Quercus agrifolia	N	11		T
268	Coast live oak	Quercus agrifolia	N	12	1	+-
		1	+	+	11	+
270	Coast live oak	Quercus agrifolia	N	17	11	+
271	Coast live oak	Quercus agrifolia	N	14	-	+
272	Coast live oak	Quercus agrifolia	N	13		
273	Coast live oak	Quercus agrifolia	N	17	13	
274	Coast live oak	Quercus agrifolia	N	21	1	$\top$
			N	22		+
275	Coast live oak	Quercus agrifolia	+	_	8	+
276	California Bay	Umbellularia californica	N	10		_
281	California Bay	Umbellularia californica	N	31		
282	Coast live oak	Quercus agrifolia	N	18		
283	Valley oak	Quercus lobata	N	31	1	1
284	California Bay	Umbellularia californica	N	9	9	8
			+	+	1	0
286	Coast live oak	Quercus agrifolia	N	20		+
288	California Bay	Umbellularia californica	N	14	12	10
289	California Bay	Umbellularia californica	N	10	7	
290	Coast live oak	Quercus agrifolia	N	27		
291	California Bay	Umbellularia californica	N	18	7	1
292	California Bay	Umbellularia californica	N	15	12	12
				+	12	12
293	Valley oak	Quercus lobata	N	21	-	+
294	California Bay	Umbellularia californica	N	18		
295	California Bay	Umbellularia californica	N	17	16	12
296	Valley oak	Quercus lobata	N	28	1	
300	Coast live oak	Quercus agrifolia	N	15	+-	+-
			+	+	+-	+-
301	Coast live oak	Quercus agrifolia	N	26	-	_
302	California Bay	Umbellularia californica	N	10	9	6
303	Coast live oak	Quercus agrifolia	N	18		
304	California Bay	Umbellularia californica	N	9	9	8
305	California Bay	Umbellularia californica	N	20	16	15
		<del> </del>	+	+	+	+13
306	California Bay	Umbellularia californica	N	20	10	+
307	Valley oak	Quercus lobata	N	33	1	1
308	California Bay	Umbellularia californica	N	12	11	
309	California Bay	Umbellularia californica	N	13	12	
310	California Bay	Umbellularia californica	N	15	13	1
311	<del>-</del>	Umbellularia californica	+	10	9	+
	California Bay	•	N	_	+	+
312	California Bay	Umbellularia californica	N	9	+	+
313	Coast live oak	Quercus agrifolia	N	22	_	1
314	California Bay	Umbellularia californica	N	8		
315	California Bay	Umbellularia californica	N	16	15	8
316	California Bay	Umbellularia californica	N	13	10	t
				$\overline{}$	+10	+-
317	California Bay	Umbellularia californica	N	12	+	+
318	California Bay	Umbellularia californica	N	9		1
319	Valley oak	Quercus lobata	N	23	16	
320	California Bay	Umbellularia californica	N	9	T	
321	Coast live oak	Quercus agrifolia	N	6	$\vdash$	+
	_		+	+	+-	+
322	Valley oak	Quercus lobata	N	13	1	+
323	California Bay	Umbellularia californica	N	14	_	1
324	California Bay	Umbellularia californica	N	14	13	$\perp$
325	California Bay	Umbellularia californica	N	10		
326	California Bay	Umbellularia californica	N	10	10	+
-40	Camorina Day	1 Campenniana CampiniCa	1.43	1 10	1 10	1

327	California Bay	Umbellularia californica	N	10	9	9
328	California Bay	Umbellularia californica	N	9	8	
329	California Bay	Umbellularia californica	N	10	8	6
330	California Bay	Umbellularia californica	N	10	10	10
331	California Bay	Umbellularia californica	N	10		
332	California Bay	Umbellularia californica	N	13	10	
333	California Bay	Umbellularia californica	N	11		
334	California Bay	Umbellularia californica	N	8	8	7
335	California Bay	Umbellularia californica	N	12		
336	California Bay	Umbellularia californica	N	16	12	9
337	California Bay	Umbellularia californica	N	13	11	
338	California Bay	Umbellularia californica	N	10	9	
339	California Bay	Umbellularia californica	N	11	8	
340	California Bay	Umbellularia californica	N	12	_	
341	California Bay	Umbellularia californica	N	20	13	
342	California Bay	Umbellularia californica	N	11	13	
343	California Bay	Umbellularia californica	N	17	15	
344	California Bay	Umbellularia californica	N	15	13	
		Umbellularia californica	N	14	1.4	
345 349	California Bay Black Oak		N	16	14	
		Quercus kelloggii	-	_		
351	Coast live oak	Quercus agrifolia	N	13	11	
352	Coast live oak	Quercus agrifolia	N	9	9	<u> </u>
353	Coast live oak	Quercus agrifolia	N	20		
355	Coast live oak	Quercus agrifolia	N	18	18	6
356	Coast live oak	Quercus agrifolia	N	17	9	
357	Pacific Madrone	Arbutus menziesii	N	15		
358	Valley oak	Quercus lobata	N	11		
359	Coast live oak	Quercus agrifolia	N	20		
360	Coast live oak	Quercus agrifolia	N	10	8	
363	Valley oak	Quercus lobata	N	14		
364	Coast live oak	Quercus agrifolia	N	12		
366	California Bay	Umbellularia californica	N	11	7	6
371	Coast live oak	Quercus agrifolia	N	10	3	
372	California Bay	Umbellularia californica	N	6		
375	Coast live oak	Quercus agrifolia	N	9	9	
376	Coast live oak	Quercus agrifolia	N	8	7	6
377	Coast live oak	Quercus agrifolia	N	24	_	_
380	Coast live oak	Quercus agrifolia	N	20		<del>                                     </del>
381	Valley oak	Quercus lobata	N N	15		<b>-</b>
382		-	N	17		_
	California Bay	Umbellularia californica				-
386	Valley oak	Quercus lobata	N	13		_
389	Coast live oak	Quercus agrifolia	N	10		
390	California Bay	Umbellularia californica	N	12	$\vdash$	
391	Coast live oak	Quercus agrifolia	N	44		
392	Coast live oak	Quercus agrifolia	N	18		
393	Coast live oak	Quercus agrifolia	N	17		
394	Coast live oak	Quercus agrifolia	N	16		
396	Coast live oak	Quercus agrifolia	N	15		
398	Coast live oak	Quercus agrifolia	N	19		
403	California Bay	Umbellularia californica	N	9	7	
404	Coast live oak	Quercus agrifolia	N	25		
405	Pacific Madrone	Arbutus menziesii	N	18		
406	Pacific Madrone	Arbutus menziesii	N	18	15	
407	Coast live oak	Quercus agrifolia	N	27		
408	Valley oak	Quercus lobata	N	23		
409	Coast live oak	Quercus agrifolia	N	13		
410	Coast live oak	Quercus agrifolia	N	15		
410	California Bay	Umbellularia californica	N	9	8	7
71.1.2			1.N	, ,	0	<del></del>
412			N	12		
413	Valley oak	Quercus lobata	N	13		
414	Valley oak California Bay	Quercus lobata Umbellularia californica	N	13		
414 415	Valley oak California Bay Coast live oak	Quercus lobata Umbellularia californica Quercus agrifolia	N N	13 26		
414 415 419	Valley oak California Bay Coast live oak California Bay	Quercus lobata Umbellularia californica Quercus agrifolia Umbellularia californica	N N N	13 26 8		
414 415 419 420	Valley oak California Bay Coast live oak California Bay Coast live oak	Quercus lobata Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia	N N N	13 26 8 19		
414 415 419 420 421	Valley oak California Bay Coast live oak California Bay Coast live oak California Bay	Quercus lobata Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Umbellularia californica	N N N	13 26 8		
414 415 419 420	Valley oak California Bay Coast live oak California Bay Coast live oak	Quercus lobata Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia	N N N	13 26 8 19	17	16
414 415 419 420 421	Valley oak California Bay Coast live oak California Bay Coast live oak California Bay	Quercus lobata Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Umbellularia californica	N N N N	13 26 8 19	17	16
414 415 419 420 421 422	Valley oak California Bay Coast live oak California Bay Coast live oak California Bay Coast live oak	Quercus lobata Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia	N N N N N	13 26 8 19 9	17	16
414 415 419 420 421 422 425	Valley oak California Bay Coast live oak California Bay Coast live oak California Bay Coast live oak California Bay Coast live oak Coast live oak	Quercus lobata Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Quercus agrifolia	N N N N N N	13 26 8 19 9 18	17	16
414 415 419 420 421 422 425 428	Valley oak California Bay Coast live oak California Bay Coast live oak California Bay Coast live oak Coast live oak Coast live oak Coast live oak	Quercus lobata Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia	N N N N N N N	13 26 8 19 9 18 11	17	16
414 415 419 420 421 422 425 428 429 430	Valley oak California Bay Coast live oak California Bay Coast live oak California Bay Coast live oak California Bay Coast live oak Coast live oak Coast live oak Coast live oak Coast live oak	Quercus lobata Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia	N N N N N N N N N N N N N N N N N N N	13 26 8 19 9 18 11 9	12	7
414 415 419 420 421 422 425 428 429 430 431	Valley oak California Bay Coast live oak California Bay Coast live oak California Bay Coast live oak California Bay Coast live oak Coast live oak Coast live oak Coast live oak Coast live oak Coast live oak Coast live oak	Quercus lobata Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia	N N N N N N N N N N N N N N N N N N N	13 26 8 19 9 18 11 9 12 17	12 8	
414 415 419 420 421 422 425 428 429 430	Valley oak California Bay Coast live oak California Bay Coast live oak California Bay Coast live oak California Bay Coast live oak Coast live oak Coast live oak Coast live oak Coast live oak	Quercus lobata Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Umbellularia californica Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia	N N N N N N N N N N N N N N N N N N N	13 26 8 19 9 18 11 9	12	7

434	California Bay	Umbellularia californica	N	15	12	9
435	Pacific Madrone	Arbutus menziesii	N	20	14	14
436	California Bay	Umbellularia californica	N	11	8	5
437	Coast live oak	Quercus agrifolia	N	19		
438	California Bay	Umbellularia californica	N	8		i e
439	California Bay	Umbellularia californica	N	8		
			+	26	-	
440	Coast live oak	Quercus agrifolia	N	_	-	-
441	California Bay	Umbellularia californica	N	7		
442	Coast live oak	Quercus agrifolia	N	24		
443	California Bay	Umbellularia californica	N	11		
444	California Bay	Umbellularia californica	N	12		
445	California Bay	Umbellularia californica	N	16	16	16
446	Coast live oak	Quercus agrifolia	N	27		
447	Coast live oak	Quercus agrifolia	N	22	<b>†</b>	
448	California Bay	Umbellularia californica	N	13		+
449			N	_	10	-
	Coast live oak	Quercus agrifolia	+	23	19	-
451	California Bay	Umbellularia californica	N	13		-
453	California Bay	Umbellularia californica	N	14	12	
454	California Bay	Umbellularia californica	N	16	12	
455	California Bay	Umbellularia californica	N	49		
456	California Bay	Umbellularia californica	N	11		
457	Coast live oak	Quercus agrifolia	N	24	i –	
462	California Bay	Umbellularia californica	N	14	9	8
			N	_	18	10
463	Coast live oak	Quercus agrifolia		22	18	-
464	Coast live oak	Quercus agrifolia	N	25		1
465	Coast live oak	Quercus agrifolia	N	12	12	12
466	California Bay	Umbellularia californica	N	8		
467	Coast live oak	Quercus agrifolia	N	28	14	
468	California Bay	Umbellularia californica	N	7	7	7
469	California Bay	Umbellularia californica	N	16	15	15
470	Coast live oak	Quercus agrifolia	N	8	6	+
	_			+	10	1
471	Valley oak	Quercus lobata	N	24	-	+
472	California Bay	Umbellularia californica	N	8		1
473	Coast live oak	Quercus agrifolia	N	20		
475	Coast live oak	Quercus agrifolia	N	12	L	L
501	Cork oak	Quercus suber	I	24		
502	Cork oak	Quercus suber	I	18		
503	California bay	Umbellularia californica	N	5		
504	California bay	Umbellularia californica	N	7	<del>                                     </del>	+
505	Shreve oak		N	21	-	+
	_	Quercus parvula		+	-	-
506	Interior live oak	Quercus wislizeni	N	24	_	-
507	Interior live oak	Quercus wislizeni	N	22	15	
508	Coast live oak	Quercus agrifolia	N	6	6	
509	Coast live oak	Quercus agrifolia	N	17		
510	Coast live oak	Quercus agrifolia	N	9		
511	Coast live oak	Quercus agrifolia	N	8		
512	Coast live oak	Quercus agrifolia	N	8	t	1
513		<del>                                     </del>	+	7	4	+
	Interior live oak	Quercus wislizeni	N	_	4	+
514	Coast live oak	Quercus agrifolia	N	13		-
515	Coast live oak	Quercus agrifolia	N	7	7	6
516	Coast live oak	Quercus agrifolia	N	20		
517	Shreve oak	Quercus parvula	N	21	L	L
518	Shreve oak	Quercus parvula	N	10	9	
519	Interior live oak	Quercus wislizeni	N	7	6	6
520	Coast live oak	Quercus agrifolia	N	8		
521	Cork oak	Quercus suber	I	5	<del>                                     </del>	+
				+	-	+
522	California bay	Umbellularia californica	N	22	-	1
523	California bay	Umbellularia californica	N	12	-	-
524	California bay	Umbellularia californica	N	22		1
525	California bay	Umbellularia californica	N	23		
526	California bay	Umbellularia californica	N	24	21	
527	Coast live oak	Quercus agrifolia	N	22		
528	California bay	Umbellularia californica	N	16	10	
529	California bay	Umbellularia californica	N	10	10	t
530	California bay	Umbellularia californica	N	20	1.0	+
	<del></del>	1		_	-	+
531	California bay	Umbellularia californica	N	14	-	-
532	California bay	Umbellularia californica	N	26		
533	California bay	Umbellularia californica	N	18		
534	California bay	Umbellularia californica	N	12	12	
535	California bay	Umbellularia californica	N	9		
536	California bay	Umbellularia californica	N	11	i -	
537	California bay	Umbellularia californica	N	23	$\vdash$	+

538	California bay	Umbellularia californica	N	25	14	9
539	California bay	Umbellularia californica	N	17	17	$\top$
540	California bay	Umbellularia californica	N	22		Т
541	English Oak	Quercus ruber	I	13		Т
542	Coast live oak	Quercus agrifolia	N	28		Т
543	California Buckeye	Aesculus californica	N	9		Τ
544	California Buckeye	Aesculus californica	N	12		T
545	Coast live oak	Quercus agrifolia	N	28		T
546 547	Interior Live Oak  Coast live oak	Quercus wislizeni	N N	15 25	+	+
548	Coast live oak	Quercus agrifolia	N	19	+	╫
549	Coast live oak	Quercus agrifolia Quercus agrifolia	N	24		+
550	Cork Oak	Quercus suber	I	23	1	+
551	Coast live oak	Quercus agrifolia	N	17	†	+
552	Coast live oak	Quercus agrifolia	N	22	1	十
553	Coast live oak	Quercus agrifolia	N	20	14	十
554	Coast live oak	Quercus agrifolia	N	12	1	$^{\dagger}$
555	Coast live oak	Quercus agrifolia	N	19		$\top$
556	Coast live oak	Quercus agrifolia	N	21		$\top$
557	Coast live oak	Quercus agrifolia	N	17		Т
558	Coast live oak	Quercus agrifolia	N	14	14	11
559	Coast live oak	Quercus agrifolia	N	26		$\top$
560	Coast live oak	Quercus agrifolia	N	17		$\top$
999	Coast redwood	Sequoia sempervirens	N	22		$\top$
1000	English Oak	Quercus ruber	I	27		$\perp$
1001	Interior Live Oak	Quercus wislizeni	N	29		
1003	Interior Live Oak	Quercus wislizeni	N	16		$\top$
1004	Coast live oak	Quercus agrifolia	N	23		$\top$
1005	Coast live oak	Quercus agrifolia	N	26		Τ
1006	Coast live oak	Quercus agrifolia	N	27		Τ
1007	Interior Live Oak	Quercus wislizeni	N	6		Т
1008	California	Platanus racemosa	N	8		Т
1010	Sycamore California	Platanus racemosa	N	8		+
1011	sycamore California	Platanus racemosa	N	9		+
1012	sycamore California	Platanus racemosa	N	7		+
1013	sycamore	Platanus racemosa	N	8		$\downarrow$
	California sycamore					╄
1014	California sycamore	Platanus racemosa	N	9		
1015	California sycamore	Platanus racemosa	N	7		
1016	California sycamore	Platanus racemosa	N	6		
1017	Coast live oak	Quercus agrifolia	N	23		I
1018	Coast live oak	Quercus agrifolia	N	27		Γ
1019	Coast live oak	Quercus agrifolia	N	19		Ī
1020	California sycamore	Platanus racemosa	N	9		
1021	California sycamore	Platanus racemosa	N	7		
1022	California sycamore	Platanus racemosa	N	9		
1023	California sycamore	Platanus racemosa	N	10		T
1026	Coast live oak	Quercus agrifolia	N	26	+	+
1027	Coast live oak	Quercus agrifolia	N	28	+	+
1028	Coast live oak	Quercus agrifolia	N	10	1	十
1029	Coast live oak	Quercus agrifolia	N	10	10	+
1030	Holly oak	Quercus ilix	I	8	1	$^{\dagger}$
1031	Holly oak	Quercus ilix	I	7	7	$^{\dagger}$
1032	Coast live oak	Quercus agrifolia	N	6	3	T
1033	California bay	Umbellularia californica	N	13	13	T
1034	Interior Live Oak	Quercus wislizeni	N	6	1	$\top$
1036	English Oak	Quercus ruber	I	18	İ	$\top$
1037	English Oak	Quercus ruber	I	20		$\top$
1038	Coast live oak	Quercus agrifolia	N	17		Γ
1039	Coast live oak	Quercus agrifolia	N	18		$\Box$
1040	Coast live oak	Quercus agrifolia	N	24		

1041	California Buckeye	Aesculus californica	N	9		
1042	California Buckeye	Aesculus californica	N	6		
1043	Coast live oak	Quercus agrifolia	N	30		
1044	California Buckeye	Aesculus californica	N	13		
1045	California Buckeye	Aesculus californica	N	9		
1046	California Buckeye	Aesculus californica	N	6		
1047	Coast live oak	Quercus agrifolia	N	26		
1048	Coast live oak	Quercus agrifolia	N	23		
1049	English Oak	Quercus ruber	I	18		
1050	Coast live oak	Quercus agrifolia	N	19		
1051	Coast live oak	Quercus agrifolia	N	9	9	
1052	Coast live oak	Quercus agrifolia	N	13		
1053	Coast live oak	Quercus agrifolia	N	11		
1054	California bay	Umbellularia californica	N	8		
1055	California bay	Umbellularia californica	N	9	7	
1056	Coast live oak	Quercus agrifolia	N	27		
1057	English Oak	Quercus ruber	I	22	İ	İ
1058	Coast live oak	Quercus agrifolia	N	26		
1059	Interior Live Oak	Quercus wislizeni	N	13		
1060	California Buckeye	Aesculus californica	N	9		
1061	California Buckeye	Aesculus californica	N	7		
1062	Coast live oak	Quercus agrifolia	N	19		
1063	Coast live oak	Quercus agrifolia	N	17		
1064	California Buckeye	Aesculus californica	N	10		
1065	Coast live oak	Quercus agrifolia	N	22		
1066	Coast live oak	Quercus agrifolia	N	21		
1067	Valley oak	Quercus lobata	N	30		
1068	Coast live oak	Quercus agrifolia	N	11		
1069	Coast live oak	Quercus agrifolia	N	25		
1070	Coast live oak	Quercus agrifolia	N	13		
1071A	Coast live oak	Quercus agrifolia	N	9		
1071B	Coast live oak	Quercus agrifolia	N	19		
1073	California	Aesculus californica	N	9		
1074	Buckeye California	Aesculus californica	N	7	5	5
1075	Buckeye California	Aesculus californica	N	6		
	Buckeye Coast live oak		N	13	9	
1076	Coast live oak	Quercus agrifolia	N	14	1	$\vdash$
1077	Coast live oak	Quercus agrifolia Quercus agrifolia	N	21	$\vdash$	
1079			+	9		
1080	Coast live oak Interior Live Oak	Quercus agrifolia	N N	22		
		Quercus wislizeni Quercus agrifolia	N	_		
1081	Coast live oak	, ,	N	23		
1082 1083	Coast live oak	Quercus agrifolia	N	17		
	California bay	Umbellularia californica		26		
1084	Valley oak Coast live oak	Quercus lobata	N N	60	-	-
1085	+ - · · · · · · · · · · · · · · · · · ·	Quercus agrifolia	+	13	-	-
1086	Coast live oak	Quercus agrifolia	N	18	11	-
1087	Coast live oak	Quercus agrifolia	N	11	11	-
1089	Coast live oak	Quercus agrifolia	N	13	-	-
1090	Coast live oak	Quercus agrifolia	N	39	<del>                                     </del>	-
1091 1092	Coast live oak California	Quercus agrifolia Platanus racemosa	N N	7		
1002	sycamore	O	NT.	15	-	-
1093	Coast live oak	Quercus agrifolia	N	15		-
1094	Coast live oak	Quercus agrifolia	N	9	6	_
1095	Coast live oak	Quercus agrifolia	N	23		_
1096	Coast live oak	Quercus agrifolia	N	25		
1097	Coast live oak	Quercus agrifolia	N	14		
1098	Coast live oak	Quercus agrifolia	N	19		
1099	Coast live oak	Quercus agrifolia	N	16		
1100	Coast live oak	Quercus agrifolia	N	30	25	
	1		Laz	1.2	1.	1
1101	California bay	Umbellularia californica	N	6	3	
1101 1102	California bay  Coast live oak	Umbellularia californica Quercus agrifolia	N N	14	3	

				,	,					,	,	,					
1104	Coast live oak	Quercus agrifolia	N	20	20	12	1176	Coast live oak	Quercus agrifolia	N	17	17	15	1244	California bay	Umbellularia californica	N
1105	California bay	Umbellularia californica	N	12		+-+	1177	Coast live oak	Quercus agrifolia	N	16	12	$\vdash$	1245	Coast live oak	Quercus agrifolia	N
1106 1107	California bay	Umbellularia californica	N N	30	12		1178	Coast live oak	Quercus agrifolia	N N	14	13	+	1246	Coast live oak	Quercus agrifolia	N N
1107	California bay California bay	Umbellularia californica Umbellularia californica	N	16 14	12		1179 1180	Interior Live Oak Coast live oak	Quercus wislizeni Quercus agrifolia	N	14		$\vdash$	1247 1248	California bay Coast live oak	Umbellularia californica Quercus agrifolia	N
1109	California bay	Umbellularia californica	N	18	1.2	1	1181	Coast live oak	Quercus agrifolia	N	17			1249	Coast live oak	Quercus agrifolia	N
1110	Coast live oak	Quercus agrifolia	N	21			1182	Coast live oak	Quercus agrifolia	N	20		$\Box$	1250	California bay	Umbellularia californica	N
1111	California bay	Umbellularia californica	N	12	8	7	1183	English Oak	Quercus ruber	I	17			1251	California bay	Umbellularia californica	N
1112	Coast live oak	Quercus agrifolia	N	24	17	15	1184	English Oak	Quercus ruber	I	18			1252	Valley oak	Quercus lobata	N
1113	Coast live oak	Quercus agrifolia	N	21			1185	English Oak	Quercus ruber	I	20			1253	Coast live oak	Quercus agrifolia	N
1114	Coast live oak	Quercus agrifolia	N	21			1186	Coast live oak	Quercus agrifolia	N	12			1254	Coast live oak	Quercus agrifolia	N
1115	Coast live oak	Quercus agrifolia	N	29			1187	Coast live oak	Quercus agrifolia	N	25		Ш	1255	Coast live oak	Quercus agrifolia	N
1116	Coast live oak	Quercus agrifolia	N	19	19		1188	California	Aesculus californica	N	5			1256	Pacific Madrone	Arbutus menziesii	N
1117	Coast live oak	Quercus agrifolia	N	8			1189	Buckeye California	Aesculus californica	N	6			1257	Coast live oak	Quercus agrifolia	N
1118 1119	Coast live oak Coast live oak	Quercus agrifolia Quercus agrifolia	N N	10	7		1109	Buckeye	Aesculus camornica	IN .	ľ			1258 1259	Coast live oak	Quercus agrifolia	N N
1119	Coast live oak	Quercus agrifolia	N	12	12	+	1190	Coast live oak	Quercus agrifolia	N	11			1260	Coast live oak	Quercus agrifolia  Quercus agrifolia	N
1121	Coast live oak	Quercus agrifolia	N	12	12		1191	Coast live oak	Quercus agrifolia	N	9			1261	California bay	Umbellularia californica	N
1122	Coast live oak	Quercus agrifolia	N	19			1192	California	Aesculus californica	N	6			1262	Coast live oak	Quercus agrifolia	N
1123	Coast live oak	Quercus agrifolia	N	8	6		1100	Buckeye	0 :61:	N.T.	4	-	$\vdash$	1263	Coast live oak	Quercus agrifolia	N
1124	Coast live oak	Quercus agrifolia	N	20			1193 1194	Coast live oak Coast live oak	Quercus agrifolia	N N	7		$\vdash$	1264	Coast live oak	Quercus agrifolia	N
1125	Coast live oak	Quercus agrifolia	N	18	16		1194	California	Quercus agrifolia Aesculus californica	N	9		+	1265	Coast live oak	Quercus agrifolia	N
1126	Coast live oak	Quercus agrifolia	N	14	13	13	1175	Buckeye	Acseurus camorinea	1"	ľ			1266	Coast live oak	Quercus agrifolia	N
1127	Coast live oak	Quercus agrifolia	N	17			1196	Coast live oak	Quercus agrifolia	N	14	14		1267	Coast live oak	Quercus agrifolia	N
1128	Coast live oak	Quercus agrifolia	N	17	16		1197	Coast live oak	Quercus agrifolia	N	15			1268	Coast live oak	Quercus agrifolia	N
1129	Coast live oak	Quercus agrifolia	N N	17	1.4	+-+	1198	Coast live oak	Quercus agrifolia	N	14	14	12	1269	Coast live oak	Quercus agrifolia	N
1130 1131	California bay Coast live oak	Umbellularia californica  Quercus agrifolia	N	20	14	+	1199	Coast live oak	Quercus agrifolia	N	14	14	11	1270 1271	California bay California bay	Umbellularia californica Umbellularia californica	N N
1131	Coast live oak	Quercus agrifolia	N	18			1200	Coast live oak	Quercus agrifolia	N	14	11	11	1272	Coast live oak	Quercus agrifolia	N
1133	Coast live oak	Quercus agrifolia	N	8			1201	Coast live oak Coast live oak	Quercus agrifolia	N N	18 18	17	11	1273	Coast live oak	Quercus agrifolia	N
1134	Coast live oak	Quercus agrifolia	N	8	7		1202	Coast live oak	Quercus agrifolia Quercus agrifolia	N	17	12	12	1274	Coast live oak	Quercus agrifolia	N
1135	Coast live oak	Quercus agrifolia	N	6			1204	Coast live oak	Quercus agrifolia	N	12	11	10	1275	Coast live oak	Quercus agrifolia	N
1136	Coast live oak	Quercus agrifolia	N	9			1205	Coast live oak	Quercus agrifolia	N	18		ř l	1276	Coast live oak	Quercus agrifolia	N
1137	Coast live oak	Quercus agrifolia	N	10			1206	Coast live oak	Quercus agrifolia	N	26	20	19	1277	Coast live oak	Quercus agrifolia	N
1138	Coast live oak	Quercus agrifolia	N	6			1207	Coast live oak	Quercus agrifolia	N	18	16		1278	Coast live oak	Quercus agrifolia	N
1139	Coast live oak	Quercus agrifolia	N	6			1208	California bay	Umbellularia californica	N	16	12	12	1279	California bay	Umbellularia californica	N
1140	Coast live oak	Quercus agrifolia	N N	20	3	$\vdash$	1209	Coast live oak	Quercus agrifolia	N	15			1280	California bay	Umbellularia californica	N N
1141 1142	Coast live oak Coast live oak	Quercus agrifolia Quercus agrifolia	N	8	6	3	1210	Coast live oak	Quercus agrifolia	N	12		ш	1281 1282	Coast live oak California bay	Quercus agrifolia Umbellularia californica	N
1142	Coast live oak	Quercus agrifolia	N	17	10	1	1211	English Oak	Quercus ruber	I	18		$\vdash$	1283	Coast live oak	Quercus agrifolia	N
1144	Coast live oak	Quercus agrifolia	N	11			1212 1213	English Oak	Quercus ruber	1	16 15		$\vdash$	1285	Coast live oak	Quercus agrifolia	N
1145	Coast live oak	Quercus agrifolia	N	22			1213	English Oak Coast live oak	Quercus ruber Quercus agrifolia	N	10		$\vdash$	1286	California bay	Umbellularia californica	N
1146	Coast live oak	Quercus agrifolia	N	20	İ		1215	Coast live oak	Quercus agrifolia	N	20		$\vdash$	1287	Coast live oak	Quercus agrifolia	N
1147	Coast live oak	Quercus agrifolia	N	8			1216	Coast live oak	Quercus agrifolia	N	18			1288	California bay	Umbellularia californica	N
1148	Coast live oak	Quercus agrifolia	N	14			1217	Coast live oak	Quercus agrifolia	N	12			1289	Coast live oak	Quercus agrifolia	N
1149	California bay	Umbellularia californica	N	8			1218	Coast live oak	Quercus agrifolia	N	12			1290	Coast live oak	Quercus agrifolia	N
1150	Coast live oak	Quercus agrifolia	N	14	9		1219	Coast live oak	Quercus agrifolia	N	11			1291	Coast live oak	Quercus agrifolia	N
1151	Coast live oak	Quercus agrifolia	N N	11	-	-	1220	Coast live oak	Quercus agrifolia	N	20			1292 1293	California bay	Umbellularia californica	N
1152 1153	Coast live oak Coast live oak	Quercus agrifolia Quercus agrifolia	N	14 17		+	1221	Coast live oak	Quercus agrifolia	N	10		$\perp$	1293	Coast live oak  Coast live oak	Quercus agrifolia  Quercus agrifolia	N N
1154	Coast live oak	Quercus agrifolia	N	7			1222	Coast live oak	Quercus agrifolia	N	6	4	$\vdash$	1295	California bay	Umbellularia californica	N
1155	Coast live oak	Quercus agrifolia	N	13			1223 1224	Coast live oak Coast live oak	Quercus agrifolia	N N	5		$\vdash$	1296	Coast live oak	Quercus agrifolia	N
1156	Coast live oak	Quercus agrifolia	N	24			1224	Coast live oak	Quercus agrifolia Quercus agrifolia	N	4			1297	Coast live oak	Quercus agrifolia	N
1157	Coast live oak	Quercus agrifolia	N	9	İ		1226	Coast live oak	Quercus agrifolia	N	5		$\vdash$	1298	Coast live oak	Quercus agrifolia	N
1158	Coast live oak	Quercus agrifolia	N	11			1227	Coast live oak	Quercus agrifolia	N	4	4		1299	Coast live oak	Quercus agrifolia	N
1159	Coast live oak	Quercus agrifolia	N	10			1228	Coast live oak	Quercus agrifolia	N	18	18		1300	Coast live oak	Quercus agrifolia	N
1160	Coast live oak	Quercus agrifolia	N	14			1229	Coast live oak	Quercus agrifolia	N	4	4		1301	Coast live oak	Quercus agrifolia	N
1161	Coast live oak	Quercus agrifolia	N	35			1230	Coast live oak	Quercus agrifolia	N	21			1302	Coast live oak	Quercus agrifolia	N
1162	Coast live oak	Quercus agrifolia	N	14	12	10	1231	Coast live oak	Quercus agrifolia	N	20			1303	Coast live oak	Quercus agrifolia	N
1163 1164	Coast live oak	Quercus agrifolia	N N	12		+	1232	Coast live oak	Quercus agrifolia	N	5		$\Box$	1304	Coast live oak Coast live oak	Quercus agrifolia	N N
1164	Coast live oak	Quercus agrifolia Quercus agrifolia	N	18	1	+	1233	Coast live oak	Quercus agrifolia	N	6	<u> </u>	$\vdash$	1305	Coast live oak	Quercus agrifolia  Quercus agrifolia	N
1166	Coast live oak	Quercus agrifolia	N	12		+	1234	Coast live oak	Quercus agrifolia	N	6	-	$\vdash$	1307	Coast live oak	Quercus agrifolia	N
1167	Interior Live Oak	Quercus wislizeni	N	16			1235 1236	Coast live oak	Quercus agrifolia Quercus agrifolia	N N	10	-	$\vdash$	1308	Coast live oak	Quercus agrifolia	N
1168	California bay	Umbellularia californica	N	20	18	12	1236	Coast live oak  Coast live oak	Quercus agrifolia	N	16	15	$\vdash$	1309	Coast live oak	Quercus agrifolia	N
1169	Coast live oak	Quercus agrifolia	N	15			1237	Coast live oak	Quercus agrifolia	N	19	13	$\vdash$	1310	Coast live oak	Quercus agrifolia	N
1170	Coast live oak	Quercus agrifolia	N	15			1239	Coast live oak	Quercus agrifolia	N	15	13	13	1311	Coast live oak	Quercus agrifolia	N
1171	Coast live oak	Quercus agrifolia	N	15			1240	Coast live oak	Quercus agrifolia	N	30		$\Box$	1312	Coast live oak	Quercus agrifolia	N
1172	Interior Live Oak	Quercus wislizeni	N	15			1241	California bay	Umbellularia californica	N	52			1313	Coast live oak	Quercus agrifolia	N
1173	Coast live oak	Quercus agrifolia	N	8	-	$\vdash$	1242	California bay	Umbellularia californica	N	20			1314	Coast live oak	Quercus agrifolia	N
1174	Coast live oak	Quercus agrifolia	N N	7	-	$\vdash$	1243	California	Aesculus californica	N	14			1315	Coast live oak	Quercus agrifolia	N N
1175	Coast live oak	Quercus agrifolia	LIN	1.19	1	1 1	1	Buckeye	i e	1	1	1		1316	Coast live oak	Ouercus agrifolia	LIN

1176	Coast live oak	Quercus agrifolia	N	17	17	15
1177	Coast live oak	Quercus agrifolia	N	16		
1178	Coast live oak	Quercus agrifolia	N	14	13	
1179	Interior Live Oak	Quercus wislizeni	N	14		
1180	Coast live oak	Quercus agrifolia	N	13		
1181	Coast live oak	Quercus agrifolia	N	17		
1182	Coast live oak	Quercus agrifolia	N	20		
1183	English Oak	Quercus ruber	I	17		
1184	U		I	18		
	English Oak	Quercus ruber				
1185	English Oak	Quercus ruber	I	20		
1186	Coast live oak	Quercus agrifolia	N	12		
1187	Coast live oak	Quercus agrifolia	N	25		
1188	California Buckeye	Aesculus californica	N	5		
1189	California Buckeye	Aesculus californica	N	6		
1190	Coast live oak	Quercus agrifolia	N	11		
1191	Coast live oak	Quercus agrifolia	N	9		
1192	California	Aesculus californica	N	6		
	Buckeye	0 16.11				_
1193	Coast live oak	Quercus agrifolia	N	4		
1194	Coast live oak	Quercus agrifolia	N	7		
1195	California Buckeye	Aesculus californica	N	9		
1196	Coast live oak	Quercus agrifolia	N	14	14	
1197	Coast live oak	Quercus agrifolia	N	15		
1198	Coast live oak	Quercus agrifolia	N	14	14	12
1199	Coast live oak	Quercus agrifolia	N	14	14	11
1200	Coast live oak	Quercus agrifolia	N	14	11	11
1200	Coast live oak	Quercus agrifolia	N	18		
		, ,	N N		17	11
1202	Coast live oak	Quercus agrifolia	<u> </u>	18		11
1203	Coast live oak	Quercus agrifolia	N	17	12	12
1204	Coast live oak	Quercus agrifolia	N	12	11	10
1205	Coast live oak	Quercus agrifolia	N	18		
1206	Coast live oak	Quercus agrifolia	N	26	20	19
1207	Coast live oak	Quercus agrifolia	N	18	16	
1208	California bay	Umbellularia californica	N	16	12	12
1209	Coast live oak	Quercus agrifolia	N	15		
1210	Coast live oak	Quercus agrifolia	N	12		
1211	English Oak	Quercus ruber	I	18		
		-	I	16		<del></del>
1212	English Oak	Quercus ruber		_		-
1213	English Oak	Quercus ruber	I	15		
1214	Coast live oak	Quercus agrifolia	N	10		
1215	Coast live oak	Quercus agrifolia	N	20		
1216	Coast live oak	Quercus agrifolia	N	18		
1217	Coast live oak	Quercus agrifolia	N	12		
1218	Coast live oak	Quercus agrifolia	N	12		
1219	Coast live oak	Quercus agrifolia	N	11		
1220	Coast live oak	Quercus agrifolia	N	20		
1221	Coast live oak	Quercus agrifolia	N	10		
1222	Coast live oak	Quercus agrifolia	N	6	4	<b>-</b>
			<b>-</b>	8	1	<b>-</b>
1223	Coast live oak	Quercus agrifolia	N	_		-
1224	Coast live oak	Quercus agrifolia	N	5		
1225	Coast live oak	Quercus agrifolia	N	4		
1226	Coast live oak	Quercus agrifolia	N	5		
1227	Coast live oak	Quercus agrifolia	N	4	4	
1228	Coast live oak	Quercus agrifolia	N	18	18	
1229	Coast live oak	Quercus agrifolia	N	4	4	
1230	Coast live oak	Quercus agrifolia	N	21		
1231	Coast live oak	Quercus agrifolia	N	20		
1232	Coast live oak	Quercus agrifolia	N	5		
	Coast live oak		N	6		<del></del>
1233		Quercus agrifolia				-
1234	Coast live oak	Quercus agrifolia	N	6		<u> </u>
1235	Coast live oak	Quercus agrifolia	N	10		
			N	9		
1236	Coast live oak	Quercus agrifolia		_		
1236 1237		Quercus agrifolia  Quercus agrifolia	N	16	15	
	Coast live oak			16 19	15	
1237	Coast live oak Coast live oak	Quercus agrifolia	N		15	13
1237 1238 1239	Coast live oak Coast live oak Coast live oak Coast live oak	Quercus agrifolia Quercus agrifolia Quercus agrifolia	N N	19 15		13
1237 1238 1239 1240	Coast live oak Coast live oak Coast live oak Coast live oak Coast live oak	Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia	N N N	19 15 30		13
1237 1238 1239 1240 1241	Coast live oak Coast live oak Coast live oak Coast live oak Coast live oak Cast live oak California bay	Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia Umbellularia californica	N N N N	19 15 30 52		13
1237 1238 1239 1240 1241 1242	Coast live oak Coast live oak Coast live oak Coast live oak Coast live oak Coast live oak California bay California bay	Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia Umbellularia californica Umbellularia californica	N N N N N	19 15 30 52 20		13
1237 1238 1239 1240 1241	Coast live oak Coast live oak Coast live oak Coast live oak Coast live oak Cast live oak California bay	Quercus agrifolia Quercus agrifolia Quercus agrifolia Quercus agrifolia Umbellularia californica	N N N N	19 15 30 52		13

1244	California bay	Umbellularia californica	N	21	9	
1245	Coast live oak	Quercus agrifolia	N	54	30	
1246	Coast live oak	Quercus agrifolia	N	28		
1247	California bay	Umbellularia californica	N	28	22	
1248	Coast live oak	Quercus agrifolia	N	10		
1249	Coast live oak	Quercus agrifolia	N	16		
1250	California bay	Umbellularia californica	N	11	İ	
1251	California bay	Umbellularia californica	N	18	17	
1252	Valley oak	Quercus lobata	N	22		
1253	Coast live oak	Quercus agrifolia	N	34	22	22
1254	Coast live oak	<u> </u>	N	21	21	16
		Quercus agrifolia		_	_	10
1255	Coast live oak	Quercus agrifolia	N	12	11	<del>                                     </del>
1256	Pacific Madrone	Arbutus menziesii	N	8	6	6
1257	Coast live oak	Quercus agrifolia	N	11	ļ	
1258	Coast live oak	Quercus agrifolia	N	9		
1259	Coast live oak	Quercus agrifolia	N	11	9	
1260	Coast live oak	Quercus agrifolia	N	12	9	
1261	California bay	Umbellularia californica	N	16	15	
1262	Coast live oak	Quercus agrifolia	N	9		
1263	Coast live oak	Quercus agrifolia	N	8		<u> </u>
	Coast live oak	<u> </u>	N	12		
1264	+	Quercus agrifolia	+		1.4	-
1265	Coast live oak	Quercus agrifolia	N	14	14	
1266	Coast live oak	Quercus agrifolia	N	6	1	1
1267	Coast live oak	Quercus agrifolia	N	14	_	_
1268	Coast live oak	Quercus agrifolia	N	8		
1269	Coast live oak	Quercus agrifolia	N	18		
1270	California bay	Umbellularia californica	N	10		L
1271	California bay	Umbellularia californica	N	16		
1272	Coast live oak	Quercus agrifolia	N	12		
1273	Coast live oak	Quercus agrifolia	N	22		
1274	Coast live oak	Quercus agrifolia	N	7	6	5
	Coast live oak		N	+	10	3
1275	+	Quercus agrifolia	+	19		
1276	Coast live oak	Quercus agrifolia	N	20		-
1277	Coast live oak	Quercus agrifolia	N	11		_
1278	Coast live oak	Quercus agrifolia	N	10		
1279	California bay	Umbellularia californica	N	8	6	
1280	California bay	Umbellularia californica	N	8	6	
1281	Coast live oak	Quercus agrifolia	N	8		
1282	California bay	Umbellularia californica	N	7		
1283	Coast live oak	Quercus agrifolia	N	25		
1285	Coast live oak	Quercus agrifolia	N	6	İ	
1286	California bay	Umbellularia californica	N	6	6	3
1287	Coast live oak	Quercus agrifolia	N	22	22	1
1288	California bay	Umbellularia californica	N	8	8	4
	<del>'</del>	<del> </del>		+	0	4
1289	Coast live oak	Quercus agrifolia	N	16		1
1290	Coast live oak	Quercus agrifolia	N	11	8	_
1291	Coast live oak	Quercus agrifolia	N	14		_
1292	California bay	Umbellularia californica	N	7	7	6
1293	Coast live oak	Quercus agrifolia	N	20	20	
1294	Coast live oak	Quercus agrifolia	N	7		
1295	California bay	Umbellularia californica	N	6		
1296	Coast live oak	Quercus agrifolia	N	14		
1297	Coast live oak	Quercus agrifolia	N	16	İ	
1298	Coast live oak	Quercus agrifolia	N	22	t	
1299	Coast live oak		N	33	$\vdash$	<del>                                     </del>
		Quercus agrifolia		_	-	-
1300	Coast live oak	Quercus agrifolia	N	12	1.0	1.0
1301	Coast live oak	Quercus agrifolia	N	21	19	18
1302	Coast live oak	Quercus agrifolia	N	19	_	_
1303	Coast live oak	Quercus agrifolia	N	9		
1304	Coast live oak	Quercus agrifolia	N	18		
1305	Coast live oak	Quercus agrifolia	N	28	28	$\bot$
1306	Coast live oak	Quercus agrifolia	N	18		
1307	Coast live oak	Quercus agrifolia	N	22	İ	
1308	Coast live oak	Quercus agrifolia	N	16	14	13
1309	Coast live oak	Quercus agrifolia	N	18	1.7	13
	+			_		<u> </u>
1310	Coast live oak	Quercus agrifolia	N	32	l	1
1311	Coast live oak	Quercus agrifolia	N	13	11	
1312	Coast live oak	Quercus agrifolia	N	15		
1313	Coast live oak	Quercus agrifolia	N	20		
1314	Coast live oak	Quercus agrifolia	N	11		$\bot$
1315	Coast live oak	Quercus agrifolia	N	17	12	
1316	Coast live oak	Quercus agrifolia	N	10		

	,					
1317	Coast live oak	Quercus agrifolia	N	9		
1318	Coast live oak	Quercus agrifolia	N	10		
1319	Coast live oak	Quercus agrifolia	N	16	12	İ
1320	Coast live oak	Quercus agrifolia	N	18		
1321	Coast live oak	Quercus agrifolia	N	10		1
1322	Coast live oak	Quercus agrifolia	N	7		
1323	Coast live oak	Quercus agrifolia	N	10		<u> </u>
1324	California bay	Umbellularia californica	N	8	<del> </del>	
1324	Coast live oak		N	20	16	<u> </u>
		Quercus agrifolia	+	_	16	-
1326	Coast live oak	Quercus agrifolia	N	14	-	
1327	Coast live oak	Quercus agrifolia	N	17	-	ļ
1328	Coast live oak	Quercus agrifolia	N	16	13	ļ
1329	Valley oak	Quercus lobata	N	14		
1330	Coast live oak	Quercus agrifolia	N	13	11	ļ
1331	Coast live oak	Quercus agrifolia	N	6	5	
1332	Coast live oak	Quercus agrifolia	N	11		
1333	Coast live oak	Quercus agrifolia	N	11		
1334	Coast live oak	Quercus agrifolia	N	9	8	7
1335	Coast live oak	Quercus agrifolia	N	11	10	8
1336	Coast live oak	Quercus agrifolia	N	15		
1337	Coast live oak	Quercus agrifolia	N	8	1	
1338	Coast live oak	<del>-</del>	N	10	+	
	+	Quercus agrifolia	+	-	0	-
1339	Coast live oak	Quercus agrifolia	N	10	9	5
1340	Coast live oak	Quercus agrifolia	N	11	9	8
1341	Coast live oak	Quercus agrifolia	N	10	ļ	ļ
1342	Coast live oak	Quercus agrifolia	N	16	15	<u> </u>
1343	Coast live oak	Quercus agrifolia	N	10	7	
1344	Coast live oak	Quercus agrifolia	N	18	10	
1345	Coast live oak	Quercus agrifolia	N	10		
1346	Coast live oak	Quercus agrifolia	N	13		İ
1347	Coast live oak	Quercus agrifolia	N	10		
1348	Coast live oak	Quercus agrifolia	N	7	6	5
1349	Coast live oak	Quercus agrifolia	N	14	0	1
			+	-		
1350	Coast live oak	Quercus agrifolia	N	10	8	8
1351	California bay	Umbellularia californica	N	15	-	
1352	Coast live oak	Quercus agrifolia	N	10	9	7
1353	Coast live oak	Quercus agrifolia	N	9		
1354	Coast live oak	Quercus agrifolia	N	9	8	
1355	Coast live oak	Quercus agrifolia	N	10		
1356	Coast live oak	Quercus agrifolia	N	8	7	6
1357	Coast live oak	Quercus agrifolia	N	10	8	
1358	Coast live oak	Quercus agrifolia	N	9	9	
1359	Coast live oak	Quercus agrifolia	N	11	-	
1360	Coast live oak	Quercus agrifolia	N	11	10	9
1361	Coast live oak	Quercus agrifolia	N	16	10	ľ
		-	+	_	10	10
1362	Coast live oak	Quercus agrifolia	N	14	13	13
1363	Pacific Madrone	Arbutus menziesii	N	12	10	<u> </u>
1364	Pacific Madrone	Arbutus menziesii	N	15		<u> </u>
1365	Coast live oak	Quercus agrifolia	N	13	12	
1366	Pacific Madrone	Arbutus menziesii	N	18		
1367	California bay	Umbellularia californica	N	15		
1368	California bay	Umbellularia californica	N	10		
1369	California bay	Umbellularia californica	N	12	12	9
1370	California bay	Umbellularia californica	N	13	10	10
1371	California bay	Umbellularia californica	N	13	T .	T .
1372	Coast live oak	Quercus agrifolia	N	24	16	$\vdash$
	+	î e	N	14	+	<del>                                     </del>
1373	Coast live oak	Quercus agrifolia	+		13	<del>                                     </del>
1374	Valley oak	Quercus lobata	N	14	14	-
1375	Coast live oak	Quercus agrifolia	N	13		
1376	Coast live oak	Quercus agrifolia	N	10	9	8
1377	California bay	Umbellularia californica	N	12		ļ
1378	Coast live oak	Quercus agrifolia	N	8	6	
1379	California bay	Umbellularia californica	N	8		
1380	California bay	Umbellularia californica	N	10		
1381	Coast live oak	Quercus agrifolia	N	12		
1382	California bay	Umbellularia californica	N	8		
1383	California bay	Umbellularia californica	N	10	10	9
1384	Coast live oak	Quercus agrifolia	N	15	T .	Ė
1385	Coast live oak	Quercus agrifolia	N	13		
1386	1	1	N	9	$\vdash$	<del>                                     </del>
	Coast live oak	Quercus agrifolia	+		-	<del>                                     </del>
1387	Coast live oak	Quercus agrifolia	N	10	-	-
1388	California bay	Umbellularia californica	N	6	İ	1

1389	California bay	Umbellularia californica	N	9		
1390	Coast live oak	Quercus agrifolia	N	16	13	
1391	California bay	Umbellularia californica	N	8		
1392	California bay	Umbellularia californica	N	7		
1393	California bay	Umbellularia californica	N	8		
1394	Coast live oak	Quercus agrifolia	N	11	10	
1395	Coast live oak	Quercus agrifolia	N	15	7	
1396	Coast live oak	Quercus agrifolia	N	12	6	4
1397	Coast live oak	Quercus agrifolia	N	10	8	
1398	Coast live oak	Quercus agrifolia	N	14	13	13
1399	California bay	Umbellularia californica	N	8	7	
1400	Coast live oak	Quercus agrifolia	N	23	11	
1401	Coast live oak	Quercus agrifolia	N	8	6	
1402	Coast live oak	Quercus agrifolia	N	17	17	
1403	Coast live oak	Quercus agrifolia	N	6		
1404	Coast live oak	Quercus agrifolia	N	13		
1405	Coast live oak	Quercus agrifolia	N	10		
1406	Coast live oak	Quercus agrifolia	N	14		
1409	Coast redwood	Sequoia sempervirens	N	23		
1410	Coast redwood		N	21		
		Sequoia sempervirens	+	_	-	
1411	Coast redwood	Sequoia sempervirens	N	12		
1412	Coast redwood	Sequoia sempervirens	N	22	-	_
1413	Coast redwood	Sequoia sempervirens	N	13	-	
1414	Coast redwood	Sequoia sempervirens	N	20		
1415	Coast redwood	Sequoia sempervirens	N	16		
1416	Cork Oak	Quercus suber	I	20		
1417	Cork Oak	Quercus suber	I	19		
1418	Cork Oak	Quercus suber	I	17		
1419	Coast live oak	Quercus agrifolia	N	15		
1420	Coast live oak	Quercus agrifolia	N	8		
1421	Coast live oak	Quercus agrifolia	N	10		
1422	Coast live oak	Quercus agrifolia	N	14		
1423	Coast live oak	Quercus agrifolia	N	10		
1424	Coast redwood	Sequoia sempervirens	N	17		
1425	Coast redwood	Sequoia sempervirens	N	17		
1426	Coast redwood	Sequoia sempervirens	N	14		
1427	Coast redwood	Sequoia sempervirens	N	14		
1428	Coast redwood	Sequoia sempervirens	N	20		
1429	Coast redwood	Sequoia sempervirens	N	16		
1430	Cork Oak	Quercus suber	I	16		
1431	Cork Oak	Quercus suber	I	16		
1432	Coast redwood	Sequoia sempervirens	N	11		
1433	Cork Oak	Quercus suber	I	17		
1434	Cork Oak		I	20		
		Quercus suber	+			
1435	Coast redwood	Sequoia sempervirens	N	18		
1436	Coast redwood	Sequoia sempervirens	N	19		
1437	Coast redwood	Sequoia sempervirens	N	16		
1438	Coast redwood	Sequoia sempervirens	N	16		
1439	California bay	Umbellularia californica	N	8		
1440	Valley oak	Quercus lobata	N	18		
1441	Valley oak	Quercus lobata	N	10		
1442	Valley oak	Quercus lobata	N	14		
1444	Coast live oak	Quercus agrifolia	N	12		
1445	Coast live oak	Quercus agrifolia	N	6		
1446	Cork Oak	Quercus suber	I	6		
1447	Cork Oak	Quercus suber	I	6		
1448	Cork Oak	Quercus suber	I	6		
1449	Cork Oak	Quercus suber	I	5		
1450	Coast live oak	Quercus agrifolia	N	6		
1451	Coast live oak	Quercus agrifolia	N	10	6	6
1452	Coast live oak	Quercus agrifolia	N	9	6	
1453	Coast live oak	Quercus agrifolia	N	10	8	8
1454	Coast live oak	Quercus agrifolia	N	6	5	4
1455	Coast live oak	Quercus agrifolia	N	10	10	8
1456	Coast live oak	Quercus agrifolia	N	10	1.0	ľ
1457	California bay	Umbellularia californica	N	8	7	7
1457	California bay	Umbellularia californica	N	20	15	12
	1		_	_	1.5	14
1459	California bay	Umbellularia californica	N	16	-	
1460	California bay	Umbellularia californica	N	11	-	
1461	California bay	Umbellularia californica	N	14		
1462	California bay	Umbellularia californica	N	13	12	11

1464	California bay	Umbellularia californica	N	15		
1465	California bay	Umbellularia californica	N	15		
1466	California bay	Umbellularia californica	N	15	9	
1467	Coast live oak	Quercus agrifolia	N	26		
1468	California bay	Umbellularia californica	N	9	$\vdash$	
1469	California bay	Umbellularia californica	N	17		
1470	California bay	Umbellularia californica	N	9	+	
		<del> </del>		+	+	+
1471	California bay	Umbellularia californica	N	20	+	-
1472	California bay	Umbellularia californica	N	13	+	-
1473	California bay	Umbellularia californica	N	13	₩	+
1474	California bay	Umbellularia californica	N	14	12	
1475	Coast live oak	Quercus agrifolia	N	28		
1476	California bay	Umbellularia californica	N	11	10	6
1477	California bay	Umbellularia californica	N	28	Т	
1478	California bay	Umbellularia californica	N	23		
1479	California bay	Umbellularia californica	N	20	18	
1480	Coast live oak	Quercus agrifolia	N	31	+	1
1481	California bay	Umbellularia californica	N	13	$\vdash$	+
		1	_	+	<del>  -</del>	+
1482	California bay	Umbellularia californica	N	8	7	
1483	California bay	Umbellularia californica	N	20	-	_
1484	California bay	Umbellularia californica	N	14		
1486	California bay	Umbellularia californica	N	9	8	
1487	California bay	Umbellularia californica	N	10		
1488	California bay	Umbellularia californica	N	17		
1489	California bay	Umbellularia californica	N	9		
1490	California bay	Umbellularia californica	N	27	t	T
1491	California bay	Umbellularia californica	N	8	$\vdash$	+
	<del></del>		+	+	+	+
1492	California bay	Umbellularia californica	N	13	-	+
1493	California bay	Umbellularia californica	N	8	—	+
1494	California bay	Umbellularia californica	N	8		
1495	California bay	Umbellularia californica	N	8		
1496	California bay	Umbellularia californica	N	10		
1497	California bay	Umbellularia californica	N	9		
1498	California bay	Umbellularia californica	N	11		
1500	California bay	Umbellularia californica	N	33	1	
1501	California bay	Umbellularia californica	N	10	10	9
	Coast live oak	<u> </u>	N	10	6	,
1502		Quercus agrifolia		_	_	+
1503	Coast live oak	Quercus agrifolia	N	11	7	
1504	Coast live oak	Quercus agrifolia	N	14	13	10
1505	Coast live oak	Quercus agrifolia	N	11		_
1506	Coast live oak	Quercus agrifolia	N	8		
1507	Coast live oak	Quercus agrifolia	N	10	10	
1509	Coast live oak	Quercus agrifolia	N	13	8	
1510	Coast live oak	Quercus agrifolia	N	6		
1511	Coast live oak	Quercus agrifolia	N	13	11	10
1512	Coast live oak	Quercus agrifolia	N	20	+	1
			N	9	8	+
1513	Coast live oak	Quercus agrifolia		_	18	
1514	Valley oak	Quercus lobata	N	19	-	-
1515	California bay	Umbellularia californica	N	8	₩	+
1516	California bay	Umbellularia californica	N	8	_	$\bot$
1517	California bay	Umbellularia californica	N	9		
1518	California bay	Umbellularia californica	N	15	13	$\perp$
1519	Coast live oak	Quercus agrifolia	N	18	T	
1521	California bay	Umbellularia californica	N	10	T T	1
1522	California bay	Umbellularia californica	N	15	$\overline{}$	1
1523	Coast live oak	Quercus agrifolia	N	34	+	+
1524		Umbellularia californica	N	7	7	6
	California bay			+	+-	10
1525	Coast live oak	Quercus agrifolia	N	16	+-	+
1526	Coast live oak	Quercus agrifolia	N	12	₩	+
1527	California bay	Umbellularia californica	N	11	8	1
1528	Coast live oak	Quercus agrifolia	N	24		
1529	Coast live oak	Quercus agrifolia	N	14		$L^{T}$
1530	Coast live oak	Quercus agrifolia	N	18	T	
1531	Coast live oak	Quercus agrifolia	N	16	T	1
1532	Coast live oak	Quercus agrifolia	N	19	+	+
	_		_	+	+-	+
1533	Coast live oak	Quercus agrifolia	N	16	+-	+
1534	California bay	Umbellularia californica	N	11	+-	+
1535	Coast live oak	Quercus agrifolia	N	14	_	1
1536	California bay	Umbellularia californica	N	6	1	1
1537	California bay	Umbellularia californica	N	8	7	
1538	Coast live oak	Quercus agrifolia	N	15	T	
			1	+	1	_

1340	Camorina bay	Cintendiaria camorinea	11	U		
1541	California bay	Umbellularia californica	N	13	12	12
1542	Coast live oak	Quercus agrifolia	N	6		-
		<del>                                     </del>	+		<del>                                     </del>	+-
1543	Coast live oak	Quercus agrifolia	N	28	-	-
1544	Coast live oak	Quercus agrifolia	N	10		
1545	California bay	Umbellularia californica	N	9		
1546	California bay	Umbellularia californica	N	6	6	1
			+		+	-
1547	Coast live oak	Quercus agrifolia	N	16		
1548	California bay	Umbellularia californica	N	6	6	
1549	California bay	Umbellularia californica	N	6		T
1550	Coast live oak	Quercus agrifolia	N	26	<u> </u>	+-
		-	+	_	₩	+-
1551	California bay	Umbellularia californica	N	7		
1552	Coast live oak	Quercus agrifolia	N	12		
1553	California bay	Umbellularia californica	N	10	10	9
	Coast live oak	t	N		+	+-
1554		Quercus agrifolia	+	11	10	-
1555	Coast live oak	Quercus agrifolia	N	30		
1556	California bay	Umbellularia californica	N	8	7	6
1557	California bay	Umbellularia californica	N	9	8	7
		t	+	<del></del>	-	ť
1558	California bay	Umbellularia californica	N	7	—	-
1559	Coast live oak	Quercus agrifolia	N	20		
1560	California bay	Umbellularia californica	N	7		Т
1561	<u> </u>	Umbellularia californica	N	6	<del>                                     </del>	<del>                                     </del>
	California bay		+		<del>                                     </del>	+-
1562	California bay	Umbellularia californica	N	6	4	
1563	California bay	Umbellularia californica	N	14	9	1
1564	California bay	Umbellularia californica	N	6		1
		<del> </del>		_	+	+-
1565	Coast live oak	Quercus agrifolia	N	20	—	-
1566	Coast live oak	Quercus agrifolia	N	20		
1567	California bay	Umbellularia californica	N	7	6	6
1568		<u> </u>	N	7	<del>Ť</del>	Ť
	Coast live oak	Quercus agrifolia	+	_		-
1569	Coast live oak	Quercus agrifolia	N	22		
1570	California bay	Umbellularia californica	N	6		
1571	Coast live oak	Quercus agrifolia	N	16	-	+-
		-	+	_	$\vdash$	+
1572	Coast live oak	Quercus agrifolia	N	20	<u> </u>	↓
1573	Coast live oak	Quercus agrifolia	N	14		
1574	Valley oak	Quercus lobata	N	22		T
1575	California bay	Umbellularia californica	N	7	-	+-
		+	+	_	₩	+
1576	California bay	Umbellularia californica	N	9	$\perp$	
1577	Coast live oak	Quercus agrifolia	N	1577		
1578	Coast live oak	Quercus agrifolia	N	16		1
		<del>                                     </del>	+		7	7
1579	California bay	Umbellularia californica	N	10	+	1/
1580	Valley oak	Quercus lobata	N	19	14	
1581	Coast live oak	Quercus agrifolia	N	29		
1582	California bay	Umbellularia californica	N	10	6	6
			+		+	+
1583	Valley oak	Quercus lobata	N	25		_
1584	California bay	Umbellularia californica	N	6	4	
1585	California bay	Umbellularia californica	N	7		
1586	Coast live oak	Quercus agrifolia	N	16		
		· ·	+	_	0	+-
1587	California bay	Umbellularia californica	N	10	8	_
1589	California bay	Umbellularia californica	N	11	10	7
1590	Coast live oak	Quercus agrifolia	N	10		
1591	California bay	Umbellularia californica	N	9	<b>†</b>	$\vdash$
			+	_	+	+
1592	Coast live oak	Quercus agrifolia	N	17	₩	_
1593	California bay	Umbellularia californica	N	8	7	L
1594	Coast live oak	Quercus agrifolia	N	6		
1595	California bay	Umbellularia californica	N	11	7	+
		<del>                                     </del>	+ -		+'-	$\vdash$
1596	Coast live oak	Quercus agrifolia	N	22	ــــــ	1
1597	Valley oak	Quercus lobata	N	17	1	
1598	Coast live oak	Quercus agrifolia	N	6		
		-	+	_	<del>                                     </del>	+
1599	Coast live oak	Quercus agrifolia	N	24	<del> </del>	+
1600	California bay	Umbellularia californica	N	9	9	
1601	Coast live oak	Quercus agrifolia	N	22		
1602	Coast live oak	Quercus agrifolia	N	15		
			+	_	+	+
1603	California bay	Umbellularia californica	N	8	—	1
1604	Coast live oak	Quercus agrifolia	N	11		L
1605	Coast live oak	Quercus agrifolia	N	10		
			+		+	+-
1606	Coast live oak	Quercus agrifolia	N	12	₩	$\vdash$
1607	California bay	Umbellularia californica	N	12	<u></u>	L
1608	Coast live oak	Quercus agrifolia	N	18		1
	Coast live oak		N		<del>                                     </del>	$\vdash$
1609		Quercus agrifolia	+	18	$\leftarrow$	+
1610	Coast live oak	Quercus agrifolia	N	12		$\perp$
1611	Coast live oak	Quercus agrifolia	N	22	17	
1612			+		1	†
	California bay	Umbellularia californica	N			

1613	Coast live oak	Quercus agrifolia	N	16		
1614	Coast live oak	Quercus agrifolia	N	14		
1615	Coast live oak	Quercus agrifolia	N	9	T	+
				+	1.0	+-
1616	California bay	Umbellularia californica	N	13	12	
1617	Coast live oak	Quercus agrifolia	N	7	5	
1618	Coast live oak	Quercus agrifolia	N	8		
1619	California bay	Umbellularia californica	N	7	i –	1
			+	_	+	+-
1620	Coast live oak	Quercus agrifolia	N	29	<b>↓</b>	
1621	California bay	Umbellularia californica	N	10	6	
1622	California bay	Umbellularia californica	N	12		
1623	California bay	Umbellularia californica	N	17	<del>                                     </del>	+
	<del>'</del>	1		_		+-
1624	California bay	Umbellularia californica	N	7	6	
1625	California bay	Umbellularia californica	N	7	6	6
1626	California bay	Umbellularia californica	N	12	10	6
1627	Coast live oak	Quercus agrifolia	N	21	-	+
		·		_	+	+
1628	Valley oak	Quercus lobata	N	12		
1629	Coast live oak	Quercus agrifolia	N	22		
1630	California bay	Umbellularia californica	N	6		
1631	California bay	Umbellularia californica	N	14	11	6
				_	111	10
1632	Coast live oak	Quercus agrifolia	N	18		
1633	California bay	Umbellularia californica	N	6	6	1
1634	Coast live oak	Quercus agrifolia	N	16		1
			+	+	+	+
1635	California bay	Umbellularia californica	N	8	$\vdash$	+
1636	Coast live oak	Quercus agrifolia	N	15		
1637	California bay	Umbellularia californica	N	9		
1638	Coast live oak	Quercus agrifolia	N	15	9	T
	+	1		_	-	+
1639	Coast live oak	Quercus agrifolia	N	20	19	14
1640	California bay	Umbellularia californica	N	18	L	L
1641	Coast live oak	Quercus agrifolia	N	28		$\top$
	+	<u> </u>		_	-	+
1642	California bay	Umbellularia californica	N	7	6	_
1643	California bay	Umbellularia californica	N	6	6	6
1644	Coast live oak	Quercus agrifolia	N	18		
1645	Coast live oak	Quercus agrifolia	N	14	-	
	_		+	_	<del>                                     </del>	+-
1646	California bay	Umbellularia californica	N	9	-	+-
1647	California bay	Umbellularia californica	N	7		
1648	Coast live oak	Quercus agrifolia	N	22		
1649	Coast live oak	Quercus agrifolia	N	20	-	$\top$
	_		+	_		+
1650	Coast live oak	Quercus agrifolia	N	20	20	_
1651	California bay	Umbellularia californica	N	9		
1652	Coast live oak	Quercus agrifolia	N	20		
1653	California bay	Umbellularia californica	N	11	10	+
	<del>'</del>		+	_	10	+-
1654	California bay	Umbellularia californica	N	12	$\vdash$	
1655	Coast live oak	Quercus agrifolia	N	9		
1656	Coast live oak	Quercus agrifolia	N	13		
1657	Coast live oak	Quercus agrifolia	N	21	-	1
		· · · · · · · · · · · · · · · · · · ·	+	_	-	+
1658	California bay	Umbellularia californica	N	13	_	-
1659	Coast live oak	Quercus agrifolia	N	20	18	
1660	Valley oak	Quercus lobata	N	16		
1661	California bay	Umbellularia californica	N	17	t	+
			_	_	<del>                                     </del>	+
1662	California bay	Umbellularia californica	N	6	4	1
1663	California bay	Umbellularia californica	N	7	5	$\perp$
1664	Coast live oak	Quercus agrifolia	N	17	9	
1665	Coast live oak	Quercus agrifolia	N	20	t - t	+-
		· -	_	_	_	+
1666	Coast live oak	Quercus agrifolia	N	14	_	_
1667	California bay	Umbellularia californica	N	7		1
1668	Coast live oak	Quercus agrifolia	N	23		1
			+	_	-	+
1669	Coast live oak	Quercus agrifolia	N	13	-	+
1670	Coast live oak	Quercus agrifolia	N	18		
1671	Coast live oak	Quercus agrifolia	N	12		1
1672	Coast live oak	Quercus agrifolia	N	12		1
	+			_	+	+-
1673	Coast live oak	Quercus agrifolia	N	12	_	+-
1674	California bay	Umbellularia californica	N	23		
1675	California bay	Umbellularia californica	N	25		
1676	Coast live oak	Quercus agrifolia	N	22	1	$\top$
		<del>                                     </del>	+	_	+	+
1677	Valley oak	Quercus lobata	N	12	<u> </u>	
1678	California bay	Umbellularia californica	N	15		
1679	California bay	Umbellularia californica	N	6		$\top$
		<u> </u>		_	<del>                                     </del>	+-
1680	Coast live oak	Quercus agrifolia	N	6	_	+-
1681	California bay	Umbellularia californica	N	6	5	
1682	California bay	Umbellularia californica	N	9		1
1683	California bay	Umbellularia californica	N	6		1
		+		+	+	+
1684	California bay	Umbellularia californica	N	10		1

1685	California bay	Umbellularia californica	N	9		Т
1686	California bay	Umbellularia californica	N	9	L	T
1687	California bay	Umbellularia californica	N	12		
1688	California bay	Umbellularia californica	N	10		
1689	California bay	Umbellularia californica	N	12		L
1690	California bay	Umbellularia californica	N	8		1
1691	California bay	Umbellularia californica	N	9	8	$\vdash$
1692	California bay	Umbellularia californica	N	14		$\vdash$
1693	California bay	Umbellularia californica	N	12	-	$\vdash$
1694	Coast live oak	Quercus agrifolia	N N	27	-	+
1695 1696	Coast live oak	Quercus agrifolia Quercus agrifolia	N	20	1	$\vdash$
1697	California bay	Umbellularia californica	N	12	<u> </u>	+
1700	California bay	Umbellularia californica	N	6		t
1701	California bay	Umbellularia californica	N	15		T
1702	California bay	Umbellularia californica	N	13		T
1703	California bay	Umbellularia californica	N	9		L
1704	California bay	Umbellularia californica	N	13		
1705	California bay	Umbellularia californica	N	10		
1706	Coast live oak	Quercus agrifolia	N	18		L
1707	California bay	Umbellularia californica	N	16		$\perp$
1708	California bay	Umbellularia californica	N	9	8	$\vdash$
1709	Coast live oak	Quercus agrifolia	N	22	-	$\vdash$
1710	California bay	Umbellularia californica	N N	8	+-	$\vdash$
1711 1712	Alder Interior Live Oak	Alnus sp.  Quercus wislizeni	N	8	1	$\vdash$
1713	Apple Apple	Malus sp.	I	12	<del>                                     </del>	+
1714	Coast live oak	Quercus agrifolia	N	18		T
1715	Coast live oak	Quercus agrifolia	N	25		t
1716	Coast live oak	Quercus agrifolia	N	15		T
1717	Coast live oak	Quercus agrifolia	N	6		
1718	Crape Myrtle	Lagerstroemia sp.	I	7		
1719	Crape Myrtle	Lagerstroemia sp.	I	6	$oxed{\Box}$	L
1720	Coast live oak	Quercus agrifolia	N	9		L
1721	Coast live oak	Quercus agrifolia	N	16	<u> </u>	$\vdash$
1722	Coast live oak	Quercus agrifolia	N	18	1	$\vdash$
1723	Coast live oak	Quercus agrifolia	N	12	11	$\vdash$
1724	Coast live oak	Quercus agrifolia	N N	20		$\vdash$
1725 1726	Coast live oak	Quercus agrifolia Quercus agrifolia	N	17 28	1	$\vdash$
1726	Coast live oak	Quercus agrifolia Quercus agrifolia	N	7		H
1728	Coast live oak	Quercus agrifolia	N	21		t
1729	Interior Live Oak	Quercus wislizeni	N	18		T
1730	Interior Live Oak	Quercus wislizeni	N	12		T
1731	Coast live oak	Quercus agrifolia	N	7		İ
1732	Coast live oak	Quercus agrifolia	N	8		
1733	Coast live oak	Quercus agrifolia	N	7	6	Г
1734	Coast live oak	Quercus agrifolia	N	26		
1735	Coast live oak	Quercus agrifolia	N	32		$\vdash$
1736	Coast live oak	Quercus agrifolia	N	16	-	$\vdash$
1737	Coast live oak	Quercus agrifolia	N	28	7	-
1738	California bay	Umbellularia californica	N	9	7	7
1739 1740	California bay Coast live oak	Umbellularia californica	N N	10	9	8
1741	California bay	Quercus agrifolia Umbellularia californica	N	9	8	8
1742	California bay	Umbellularia californica	N	11	10	9
1743	California bay	Umbellularia californica	N	18	Ť.	ŕ
1744	California bay	Umbellularia californica	N	12	10	9
1745	California bay	Umbellularia californica	N	30		Γ
1746	Coast live oak	Quercus agrifolia	N	12	10	
1747	Coast live oak	Quercus agrifolia	N	17	16	15
1748	Coast live oak	Quercus agrifolia	N	11		Ľ
1749	Coast live oak	Quercus agrifolia	N	6	4	L
1750	Coast live oak	Quercus agrifolia	N	6		$\vdash$
1751	Coast live oak	Quercus agrifolia	N	8	-	$\vdash$
1752	Coast live oak	Quercus agrifolia	N	20	-	$\vdash$
1753	Coast live oak	Quercus agrifolia	N	23	-	$\vdash$
1754	Valley oak	Quercus lobata Umbellularia californica	N N	25 15		+
1755 1756	California bay Coast live oak	Quercus agrifolia	N	8	$\vdash$	$\vdash$
1757	Valley oak	Quercus lobata	N	26		t
/			+	+	+	+
1758	California bay	Umbellularia californica	N	12	1	1

1850	California bay	Umbellularia californica	0	13			2037	Coast live oak	Quercus agrifolia
1849	Coast live oak	Quercus agrifolia	0	24	†		2036	California bay California bay	Umbellularia californi Umbellularia californi
1848	California bay	Umbellularia californica	0	16	<del>                                     </del>		2035	Coast live oak  California bay	Umbellularia californi
1847	California bay	Umbellularia californica	0	42	<del>                                     </del>		2034	Coast live oak	Quercus agrifolia
1846	California bay	Umbellularia californica	0	10	<del> </del>		2033	California bay California bay	Umbellularia californi Umbellularia californi
1844 1845	California bay California bay	Umbellularia californica Umbellularia californica	0	7	5		2032	California bay	Umbellularia californi
1843	California bay	Umbellularia californica	0	11	+	-	2030	California bay	Umbellularia californi
1842	California bay	Umbellularia californica	0	10	<del></del>		2029	California bay	Umbellularia californi
1841	California bay	Umbellularia californica	0	7			2028	California bay	Umbellularia californi
1840	California bay	Umbellularia californica	0	20			2027	California bay	Umbellularia californi
1839	California bay	Umbellularia californica	0	9	+		2025 2026	California bay California bay	Umbellularia californi Umbellularia californi
1837 1838	California bay  California bay	Umbellularia californica Umbellularia californica	0	11 5	9		2024	Coast live oak	Quercus agrifolia
1836	California bay	Umbellularia californica	0	7	0		2022	California bay	Umbellularia californi
1835	California bay	Umbellularia californica	0	12	<u> </u>		2021	California bay	Umbellularia californi
1834	Coast live oak	Quercus agrifolia	0	19			2020	California bay	Umbellularia californi
1833	Coast live oak	Quercus agrifolia	0	20			2010	California bay	Umbellularia californi
1832	Coast live oak	Quercus agrifolia	0	11	+		2006	California bay California bay	Umbellularia californi Umbellularia californi
1830 1831	Coast live oak  Coast live oak	Quercus agrifolia  Quercus agrifolia	0	15 12	+-		2005	California bay	Umbellularia californi
1829	Coast live oak	Quercus agrifolia	0	16	+	-	2004	California bay	Umbellularia californi
1828	California bay	Umbellularia californica	0	24	₩		2002	California bay	Umbellularia californi
1827	California bay	Umbellularia californica	0	8			2001	California bay	Umbellularia californi
1825	California bay	Umbellularia californica	0	17			2000	California bay	Umbellularia californi
1824	Coast live oak	Quercus agrifolia	0	10	+		1994 1999	California bay California bay	Umbellularia californi Umbellularia californi
1819 1822	Coast live oak Coast live oak	Quercus agrifolia Quercus agrifolia	0	24 18	+-		1992	California bay	Umbellularia californi
1818	Coast live oak	Quercus agrifolia	0	34	25	18	1990	Coast live oak	Quercus agrifolia
1817	California bay	Umbellularia californica	0	5	3		1988	California bay	Umbellularia californi
1816	California bay	Umbellularia californica	0	9	7		1985	California bay	Umbellularia californi Umbellularia californi
1815	California bay	Umbellularia californica	0	8	+		1984 1985	California bay California bay	Umbellularia californi Umbellularia californi
1814	California buckeye	Aesculus californica	0	15			1982	California bay	Umbellularia californi
1813	California bay	Umbellularia californica	0	20	$\perp$		1979	California bay	Umbellularia californi
1812	Coast live oak	Quercus agrifolia	0	29			1978	California bay	Umbellularia californi
1811	California bay	Umbellularia californica	0	18			1977	California bay	Umbellularia californi
1809 1810	California bay  California bay	Umbellularia californica Umbellularia californica	0	5	+		1975 1976	California bay California bay	Umbellularia californi Umbellularia californi
1808	California bay	Umbellularia californica	0	10	9	9	1974	California bay	Umbellularia californi
1807	Coast live oak	Quercus agrifolia	0	14	<u> </u>		1973	California bay	Umbellularia californi
1806	California bay	Umbellularia californica	0	17			1971	California bay	Umbellularia californi
1805	California bay	Umbellularia californica	0	6	6		1968	California bay	Umbellularia californi
1804	California bay	Umbellularia californica	0	27	+		1967	California bay	Umbellularia californi
1801 1802	Cork oak California bay	Quercus suber Umbellularia californica	0	25 24	+		1959 1965	California bay California bay	Umbellularia californi Umbellularia californi
1789	Mimosa	Albizia julibrissin	I	17	+	-	1955	Coast live oak	Quercus agrifolia
1788	California bay	Umbellularia californica	N	16	9	<b> </b>	1944	California bay	Umbellularia californi
1782	California bay	Umbellularia californica	N	6			1943	California bay	Umbellularia californi
1781	Coast live oak	Quercus agrifolia	N	10			1942	California bay	Umbellularia californi
17/9	Coast live oak	Quercus agrifolia	N	16	13	10	1882	California bay	Umbellularia californi Umbellularia californi
1778 1779	Coast live oak  Coast live oak	Quercus agrifolia  Quercus agrifolia	N N	10	+		1879 1882	California bay California bay	Umbellularia californi Umbellularia californi
1777	Coast live oak	Quercus agrifolia	N	15	₩		1878	Coast live oak	Quercus agrifolia
1776	Coast live oak	Quercus agrifolia	N	8	7		1877	California bay	Umbellularia californi
1775	California bay	Umbellularia californica	N	15	13	12	1875	California bay	Umbellularia californi
1774	Coast live oak	Quercus agrifolia	N	12	11	7	1874	California bay	Umbellularia californi
1773	California bay	Umbellularia californica	N	12	4		1871	California bay	Umbellularia californi
1771 1772	Coast live oak Coast live oak	Quercus agrifolia Quercus agrifolia	N N	21 13	11		1868 1870	California bay California bay	Umbellularia californi Umbellularia californi
1770	Coast live oak	Quercus agrifolia	N	14	12		1867	California bay	Umbellularia californi
1769	Coast live oak	Quercus agrifolia	N	20			1866	California bay	Umbellularia californi
1768	Coast live oak	Quercus agrifolia	N	16	16		1865	California bay	Umbellularia californi
1767	Coast live oak	Quercus iobata  Quercus agrifolia	N	28	+		1864	Coast live oak	Quercus agrifolia
1765 1766	Valley oak Valley oak	Quercus lobata  Quercus lobata	N N	13 22	10	$\vdash$	1862 1863	Coast live oak California bay	Quercus agrifolia Umbellularia californi
1764	Coast live oak	Quercus agrifolia	N	12	11		1861	Coast live oak	Quercus agrifolia
1763	Coast live oak	Quercus agrifolia	N	17			1860	California bay	Umbellularia californi
1762	California bay	Umbellularia californica	N	16	14	10	1859	California bay	Umbellularia californi
	Coast live oak	Quercus agrifolia	N	22	21	21	1858	California bay	Umbellularia californi
1760 1761	Coast live oak	Quercus agrifolia	N	13			1852	Coast live oak	Quercus agrifolia

1851	Coast live oak	Quercus agrifolia	0	30		
1852	Coast live oak	Quercus agrifolia	0	8		
1858	California bay	Umbellularia californica	0	10		
1859	California bay	Umbellularia californica	0	12	12	
1860	California bay	Umbellularia californica	0	7		
1861	Coast live oak	Quercus agrifolia	0	17		1
1862	Coast live oak	Quercus agrifolia	0	20		
	+			_		1
1863	California bay	Umbellularia californica	0	12		1
1864	Coast live oak	Quercus agrifolia	0	20		
1865	California bay	Umbellularia californica	0	6		
1866	California bay	Umbellularia californica	0	12		
1867	California bay	Umbellularia californica	0	9		
1868	California bay	Umbellularia californica	0	8	8	
1870	California bay	Umbellularia californica	0	14	12	8
1871	California bay	Umbellularia californica	0	6		
1874	California bay	Umbellularia californica	0	17		
1875	California bay	Umbellularia californica	0	8		
1877	California bay	Umbellularia californica	0	19	~18	17
			+		-	17
1878	Coast live oak	Quercus agrifolia	0	14	12	-
1879	California bay	Umbellularia californica	0	10		
1882	California bay	Umbellularia californica	0	5		
1888	California bay	Umbellularia californica	0	16	8	
1942	California bay	Umbellularia californica	N	12		
1943	California bay	Umbellularia californica	N	13	10	
1944	California bay	Umbellularia californica	N	8	4	
1955	Coast live oak	Quercus agrifolia	N	42	36	1
1959	California bay	Umbellularia californica	N	7	4	
	California bay		N	_	4	
1965		Umbellularia californica		27		
1967	California bay	Umbellularia californica	N	11	10	
1968	California bay	Umbellularia californica	N	9		
1971	California bay	Umbellularia californica	N	12		
1973	California bay	Umbellularia californica	N	10		
1974	California bay	Umbellularia californica	N	11		
1975	California bay	Umbellularia californica	N	9		
1976	California bay	Umbellularia californica	N	18	7	
1977	California bay	Umbellularia californica	N	14	7	6
1978	California bay	Umbellularia californica	N	8	_	1
				-	10	
1979	California bay	Umbellularia californica	N	21	18	
1982	California bay	Umbellularia californica	N	7		
1984	California bay	Umbellularia californica	N	32		
1985	California bay	Umbellularia californica	N	7		
1986	California bay	Umbellularia californica	N	14		
1988	California bay	Umbellularia californica	N	12		
1990	Coast live oak	Quercus agrifolia	N	30		
1992	California bay	Umbellularia californica	N	36	22	
1994	California bay	Umbellularia californica	N	6		
1999	California bay	Umbellularia californica	N	11		
-	<del></del>			7	-	-
2000	California bay	Umbellularia californica	N	_	6	5
2001	California bay	Umbellularia californica	N	16	15	8
2002	California bay	Umbellularia californica	N	8	6	_
2004	California bay	Umbellularia californica	N	13		
2005	California bay	Umbellularia californica	N	24	19	
2006	California bay	Umbellularia californica	N	15		
2008	California bay	Umbellularia californica	N	10	4	
2010	California bay	Umbellularia californica	N	17	12	
2020	California bay	Umbellularia californica	N	11	7	
2021	<del></del>	Umbellularia californica	N	7	ŕ	
	California bay					1
2022	California bay	Umbellularia californica	N	20	-	1
2024	Coast live oak	Quercus agrifolia	N	31		1
2025	California bay	Umbellularia californica	N	19	6	
2026	California bay	Umbellularia californica	N	18	14	
2027	California bay	Umbellularia californica	N	9		
2028	California bay	Umbellularia californica	N	14	10	
2029	California bay	Umbellularia californica	N	14	14	8
2030	California bay	Umbellularia californica	N	22	19	16
2030	California bay	Umbellularia californica		_	17	10
-		<del> </del>	N	11	10	1
2033	California bay	Umbellularia californica	N	20	18	1
2034	California bay	Umbellularia californica	N	9		1
2035	Coast live oak	Quercus agrifolia	N	17		
2036	California bay	Umbellularia californica	N	8		
2037	California bay	Umbellularia californica	N	13	13	
<b>—</b>	- · · · ·	1	1	1	1	_

1851	Coast live oak	Quercus agrifolia	0	30	I		1	2039	Coast live oak	Quercus agrifolia	N	22	18	1
1852	Coast live oak	Quercus agrifolia	0	8			1	2039	California bay	Umbellularia californica	N	16	18	
1858	California bay	Umbellularia californica	0	10			ł	2041	California bay	Umbellularia californica	N	12	10	5
1859	California bay	Umbellularia californica	0	12	12		i	2042	California bay	Umbellularia californica	N	7	5	<u> </u>
1860	California bay	Umbellularia californica	0	7			İ	2043	Coast live oak	Quercus agrifolia	N	17		
1861	Coast live oak	Quercus agrifolia	0	17				2044	Coast live oak	Quercus agrifolia	N	22		
1862	Coast live oak	Quercus agrifolia	0	20				2045	California bay	Umbellularia californica	N	18	14	13
1863	California bay	Umbellularia californica	0	12			ļ	2046	California bay	Umbellularia californica	N	10	10	
1864	Coast live oak	Quercus agrifolia	0	20				2047	California bay	Umbellularia californica	N	10		
1865	California bay	Umbellularia californica	0	6			1	2048	California bay	Umbellularia californica	N	13	_	<u> </u>
1866	California bay	Umbellularia californica Umbellularia californica	0	12			ł	2049	California bay	Umbellularia californica Umbellularia californica	N	9	7	-
1867 1868	California bay California bay	Umbellularia californica	0	8	8		1	2050	California bay California bay	Umbellularia californica	N N	9	9	7
1870	California bay	Umbellularia californica	0	14	12	8	ł	2052	Coast live oak	Quercus agrifolia	N	22	,	<del> </del>
1871	California bay	Umbellularia californica	0	6	12		ł	2056	California bay	Umbellularia californica	N	16	14	8
1874	California bay	Umbellularia californica	0	17			1	2058	California bay	Umbellularia californica	N	11	1	<u> </u>
1875	California bay	Umbellularia californica	0	8			i	2059	Coast live oak	Quercus agrifolia	N	25		<u> </u>
1877	California bay	Umbellularia californica	0	19	~18	17	1	2062	California bay	Umbellularia californica	N	11	11	11
1878	Coast live oak	Quercus agrifolia	0	14	12		ĺ	2064	California bay	Umbellularia californica	N	10	9	
1879	California bay	Umbellularia californica	0	10				2065	Coast live oak	Quercus agrifolia	N	25		
1882	California bay	Umbellularia californica	0	5				2066	California bay	Umbellularia californica	N	11	7	
1888	California bay	Umbellularia californica	0	16	8			2067	Coast live oak	Quercus agrifolia	N	25	ļ	
1942	California bay	Umbellularia californica	N	12			-	2068	California bay	Umbellularia californica	N	6	-	<u> </u>
1943	California bay	Umbellularia californica	N	13	10		-	2069	California bay	Umbellularia californica	N	14		<u> </u>
1944	California bay	Umbellularia californica	N	8	4		ł	2070	California bay	Umbellularia californica	N	11	11	-
1955 1959	Coast live oak California bay	Quercus agrifolia Umbellularia californica	N N	42 7	36 4	-	1	2072	California bay California bay	Umbellularia californica Umbellularia californica	N N	16 16	-	+
1965	California bay	Umbellularia californica	N	27	4		ł	2073	California bay	Umbellularia californica	N	8	6	<del>                                     </del>
1967	California bay	Umbellularia californica	N	11	10		1	2075	California bay	Umbellularia californica	N	10	0	<del>                                     </del>
1968	California bay	Umbellularia californica	N	9	10		i	2076	California bay	Umbellularia californica	N	10	5	<del>                                     </del>
1971	California bay	Umbellularia californica	N	12			1	2077	Coast live oak	Quercus agrifolia	N	29		
1973	California bay	Umbellularia californica	N	10			ĺ	2079	California bay	Umbellularia californica	N	8	8	7
1974	California bay	Umbellularia californica	N	11			1	2082	Coast live oak	Quercus agrifolia	N	13		
1975	California bay	Umbellularia californica	N	9				2083	Coast live oak	Quercus agrifolia	N	15		
1976	California bay	Umbellularia californica	N	18	7			2084	California bay	Umbellularia californica	N	11		
1977	California bay	Umbellularia californica	N	14	7	6	ļ	2085	California bay	Umbellularia californica	N	7	6	
1978	California bay	Umbellularia californica	N	8				2086	California bay	Umbellularia californica	N	20	ļ	
1979	California bay	Umbellularia californica	N	21	18		ļ	2088	California bay	Umbellularia californica	N	14	14	11
1982	California bay	Umbellularia californica	N	7			ł	2089	California bay	Umbellularia californica	N	20	-	-
1984 1985	California bay California bay	Umbellularia californica Umbellularia californica	N N	32 7			ł	2091	California bay California bay	Umbellularia californica Umbellularia californica	N N	8	10	-
1986	California bay	Umbellularia californica	N	14			ł	2092	California bay	Umbellularia californica	N	10	9	-
1988	California bay	Umbellularia californica	N	12			ł	2096	California bay	Umbellularia californica	N	14	,	
1990	Coast live oak	Quercus agrifolia	N	30			1	2097	California bay	Umbellularia californica	N	7		$\vdash$
1992	California bay	Umbellularia californica	N	36	22		i	2098	California bay	Umbellularia californica	N	20	14	9
1994	California bay	Umbellularia californica	N	6			1	2099	California bay	Umbellularia californica	N	18	14	13
1999	California bay	Umbellularia californica	N	11			ĺ	2103	California bay	Umbellularia californica	N	27		
2000	California bay	Umbellularia californica	N	7	6	5		2105	Coast live oak	Quercus agrifolia	N	13		
2001	California bay	Umbellularia californica	N	16	15	8	]	2106	California bay	Umbellularia californica	N	22		
2002	California bay	Umbellularia californica	N	8	6		1	2107	Coast live oak	Quercus agrifolia	N	23		
2004	California bay	Umbellularia californica	N	13			ļ	2109	California bay	Umbellularia californica	N	14		
2005	California bay	Umbellularia californica	N	24	19		ļ	2111	California bay	Umbellularia californica	N	9	ļ. —	<u> </u>
2006	California bay	Umbellularia californica	N	15		-	ł	2112	California bay	Umbellularia californica	N	13	9	10
2008	California bay	Umbellularia californica	N N	10	4	<u> </u>	1	2114	California bay California	Umbellularia californica	N N	22 8	14	10
2010	California bay California bay	Umbellularia californica Umbellularia californica	N	17 11	12 7		ł	2115	buckeye	Aesculus californica	IN IN	8	0	٦
2020	California bay	Umbellularia californica	N	7	ľ	<u> </u>	1	2116	California bay	Umbellularia californica	N	20		
2021	California bay	Umbellularia californica	N	20			1	2117	Elderberry	Sambucus sp.	N	4		
2024	Coast live oak	Quercus agrifolia	N	31			1	2118	California bay	Umbellularia californica	N	17	16	14
2025	California bay	Umbellularia californica	N	19	6		1	2119	California bay	Umbellularia californica	N	10		
2026	California bay	Umbellularia californica	N	18	14		1	2120	California bay	Umbellularia californica	N	18		
2027	California bay	Umbellularia californica	N	9			]	2121	California bay	Umbellularia californica	N	8		
2028	California bay	Umbellularia californica	N	14	10		]	2123	California bay	Umbellularia californica	N	18	6	<u> </u>
2029	California bay	Umbellularia californica	N	14	14	8	1	2124	California bay	Umbellularia californica	N	13		-
2030	California bay	Umbellularia californica	N	22	19	16	1	2127	California bay	Umbellularia californica	N	12	-	₩
2032	California bay	Umbellularia californica	N	11				2128	California bay	Umbellularia californica	N	17	4	<del>                                     </del>
2033	California bay	Umbellularia californica	N	20	18		-	2130	California bay	Umbellularia californica	N	9	4	+
2034	California bay	Umbellularia californica	N	9	-		-	2131 2138	California bay California bay	Umbellularia californica Umbellularia californica	N N	8 10	-	+-
2035	Coast live oak	Quercus agrifolia	N	17	-	-	-	2138	California bay	Umbellularia californica	N	14	-	+-
2036	California bay	Umbellularia californica	N	8	12		1	2141	California bay	Umbellularia californica	N	13		$\vdash$
2037	California bay	Umbellularia californica	N	13	13	<u> </u>	1	2142	California bay	Umbellularia californica	N	11		$\vdash$
1.7038	Coast live oak	Quercus agrifolia	N	9	1	1	1		1 - minor ma bay	1 camornica	1-,	1 * *	i.	1

2143	Coast live oak	Quercus agrifolia	N	12		
2144	California bay	Umbellularia californica	N	15		
2145	California bay	Umbellularia californica	N	14	11	10
2146	California bay	Umbellularia californica	N	9		
2147	California bay	Umbellularia californica	N	21	11	8
2148 2150	California bay California bay	Umbellularia californica Umbellularia californica	N N	7	4	
2150	California bay	Umbellularia californica	N	9	4	
2152	California bay	Umbellularia californica	N	9	7	
2154	California bay	Umbellularia californica	N	6		
2155	California bay	Umbellularia californica	N	16		
2156	California bay	Umbellularia californica	N	7		
2157	California bay	Umbellularia californica	N	10	8	5
2158	California bay	Umbellularia californica	N	13	10	9
2159	California bay	Umbellularia californica	N	13		
2160	California bay	Umbellularia californica	N	14	12	10
2161	Toyon	Heteromeles arbutifolia	N	7		
2162	California bay	Umbellularia californica	N	16		
2163	Coast live oak	Quercus agrifolia	N	18	10	
2164	California bay	Umbellularia californica	N	37		
2165 2166	California bay California bay	Umbellularia californica Umbellularia californica	N N	8	11	7
2167	Coast live oak	Quercus agrifolia	N	19	11	/
2171	Coast live oak	Quercus agrifolia	N	19	13	13
2173	California bay	Umbellularia californica	N	8	7	13
2174	California bay	Umbellularia californica	N	27	9	8
2177	Coast live oak	Quercus agrifolia	N	23	19	
2178	California bay	Umbellularia californica	N	8	17	
2180	California bay	Umbellularia californica	N	38		
2185	California bay	Umbellularia californica	N	15	4	
2186	California bay	Umbellularia californica	N	15		
2187	California bay	Umbellularia californica	N	14	9	
2188	California bay	Umbellularia californica	N	10		
2189	California bay	Umbellularia californica	N	33		
2193	Coast live oak	Quercus agrifolia	N	25		
2203	Coast live oak	Quercus agrifolia	N	13	10	6
2209	California bay	Umbellularia californica	N	7		
2216	California bay	Umbellularia californica	N	7		
2221	Coast live oak	Quercus agrifolia	N	23		
2222	California bay	Umbellularia californica	N	6		
2223	California bay	Umbellularia californica	N	18		
2224	California bay	Umbellularia californica	N	19	9	
2225	California bay	Umbellularia californica	N	8		
2226	Coast live oak	Quercus agrifolia	N	23		
2227	California bay	Umbellularia californica	N	6	4	
2228	California bay	Umbellularia californica	N	8	8	
2229	California bay	Umbellularia californica	N	13	5	_
2230	California bay	Umbellularia californica	N	11	8	5
2231	California bay	Umbellularia californica Umbellularia californica	N N	13	9	8
2233	California bay California bay	Umbellularia californica	N	8	,	0
2234	Coast live oak	Quercus agrifolia	N	27		
2235	California bay	Umbellularia californica	N	6		
2236	Coast live oak	Quercus agrifolia	N	14		
2237	California bay	Umbellularia californica	N	15	7	5
2238	California bay	Umbellularia californica	N	8	8	5
2239	Coast live oak	Quercus agrifolia	N	26		
2240	California bay	Umbellularia californica	N	19		
2241	Coast live oak	Quercus agrifolia	N	18		
2242	California bay	Umbellularia californica	N	9		
2243	California bay	Umbellularia californica	N	31		
2244	Coast live oak	Quercus agrifolia	N	26		
2245	Coast live oak	Quercus agrifolia	N	29		
2246	California bay	Umbellularia californica	N	6		
2247	California bay	Umbellularia californica	N	6		
2248	California bay	Umbellularia californica	N	9	9	8
2249	California bay	Umbellularia californica	N	7		
2250	California bay	Umbellularia californica	N	22	8	
2251	California bay	Umbellularia californica	N	8	7	
2252	California bay	Umbellularia californica	N	9		
2253	California bay	Umbellularia californica	N	14	8	8
2254	California bay	Umbellularia californica	N	9	6	

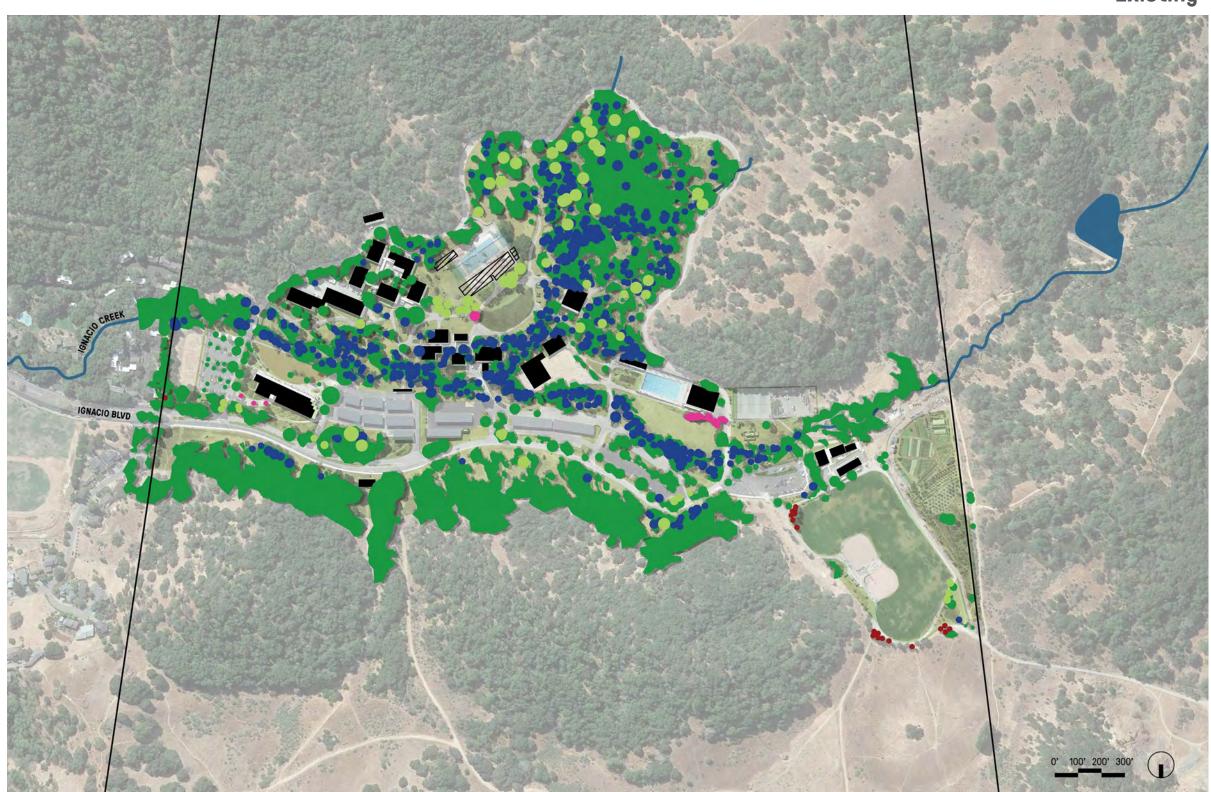
2255	California bay	Umbellularia californica	N	15	11	Ţ
2256	California bay	Umbellularia californica	N	12	11	1
2263 2269	California bay	Umbellularia californica  Aesculus californica	N N	13 15	12	+
2272	California bay	Umbellularia californica	N	16	13	+
2273	California bay	Umbellularia californica	N	14	13	ť
2274	California bay	Umbellularia californica	N	12	7	İ
2275	California bay	Umbellularia californica	N	13		Ţ
2276	California bay	Umbellularia californica	N	13	12	1
2277 2289	California bay California bay	Umbellularia californica Umbellularia californica	N N	6	6	+
2289	California bay	Umbellularia californica	N	9	8	1 8
2297	California bay	Umbellularia californica	N	22	14	Í
2298	California bay	Umbellularia californica	N	13		Ţ
2299	California bay	Umbellularia californica	N	11	+	+
2300	California bay California bay	Umbellularia californica Umbellularia californica	N N	9	14	+
2302	California bay	Umbellularia californica	N	22	1.1	ť
2304	California bay	Umbellularia californica	N	12	6	İ
2307	California bay	Umbellularia californica	N	12		ſ
2308	California bay	Umbellularia californica	N	11 7	10	1
2309	California bay Coast live oak	Umbellularia californica  Quercus agrifolia	N N	18	12	-
2311	California bay	Umbellularia californica	N	8	5	Ť
2312	California bay	Umbellularia californica	N	7		ļ
2313	California bay	Umbellularia californica	N	9	ļ	1
2314	California bay Coast live oak	Umbellularia californica  Quercus agrifolia	N N	10	6	14
2325	Coast live oak	Quercus agrifolia	N	36	+	$\dagger$
2328	California bay	Umbellularia californica	N	12	10	İ
2329	California bay	Umbellularia californica	N	9	7	Ţ
2330	California bay	Umbellularia californica	N	10	9	1
2332	California bay California bay	Umbellularia californica Umbellularia californica	N N	15	9	+
2337	California bay	Umbellularia californica	N	14	ť	$\dagger$
2341	California bay	Umbellularia californica	N	16	12	İ
2342	California bay	Umbellularia californica	N	18	12	ſ
2343	California bay	Umbellularia californica Umbellularia californica	N N	7	10	15
2344	California bay California bay	Umbellularia californica	N N	12	5	+
2351	California bay	Umbellularia californica	N	7		İ
2352	California bay	Umbellularia californica	N	13	11	1
2353	Coast live oak	Quercus agrifolia	N	22	+	+
2354	California bay California bay	Umbellularia californica Umbellularia californica	N N	8	+	+
2356	California bay	Umbellularia californica	N	19	+	+
2357	California bay	Umbellularia californica	N	12		İ
2358	California bay	Umbellularia californica	N	11		Ţ
2359	California bay	Umbellularia californica	N	19	-	+
2360	California bay California bay	Umbellularia californica Umbellularia californica	N N	12	10	+
2362	California bay	Umbellularia californica	N	7	10	$^{\dagger}$
2363	Coast live oak	Quercus agrifolia	N	20		İ
2364	California bay	Umbellularia californica	N	9	4	Ţ
2366	California bay	Umbellularia californica	N	13	9	1
2368	California bay California bay	Umbellularia californica Umbellularia californica	N N	13	+	+
2371	California bay	Umbellularia californica	N	11		t
2380	California bay	Umbellularia californica	N	9		ļ
2399	California bay	Umbellularia californica	N	19	<del> </del>	1
2400	California bay California bay	Umbellularia californica Umbellularia californica	N N	32 9	7	+
2401	California bay	Umbellularia californica	N	7	+	+
2409	California bay	Umbellularia californica	N	13	L	t
2410	California bay	Umbellularia californica	N	14		Ţ
2411	Coast live oak	Quercus agrifolia	N	15	+	+
2412 2414	California bay California	Umbellularia californica  Aesculus californica	N N	12	+	$\dagger$
2415	buckeye	TT 1 11 1	l N	1,0	$\perp$	1
2415	California bay	Umbellularia californica	N	18	1.4	+
2416	California bay	Umbellularia californica	N	17	14	L

2438						
	California bay	Umbellularia californica	N	8	5	5
2439	California bay	Umbellularia californica	N	8	7	
2441	California bay	Umbellularia californica	N	19		
2442	California bay	Umbellularia californica	N	16		
2443	California bay	Umbellularia californica	N	18		
2444	California bay	Umbellularia californica	N	17		_
2445	California bay	Umbellularia californica	N	19		
2446	California bay	Umbellularia californica	N	12	12	11
2450	California bay	Umbellularia californica	N	26	20	14
2452	California bay	Umbellularia californica	N	35	29	23
2460	California bay	Umbellularia californica	N	17		+
2463 2465	California bay	Umbellularia californica	N	10	6	8
	California bay	Umbellularia californica	N N	30	10	8
2466 2467	California bay	Umbellularia californica Umbellularia californica	N	16 7	10	+
2469	California bay	Umbellularia californica	N	20		+
2470	California bay California bay	Umbellularia californica	N	17		
2471	California bay	Umbellularia californica	N	26	12	+
2471	California bay	Umbellularia californica	N	7	12	
2473	California bay	Umbellularia californica	N	14	1	+
2475	California bay	Umbellularia californica	N	48	+	+
2476	California bay	Umbellularia californica	N	12	1	+
2478	California bay	Umbellularia californica	N	12		1
2480	California bay	Umbellularia californica	N	12	<u> </u>	+
2483	California bay	Umbellularia californica	N	9	8	+
2484	California bay	Umbellularia californica	N	16	15	11
2485	California bay	Umbellularia californica	N	12	1	1
2486	California bay	Umbellularia californica	N	12		
2487	California bay	Umbellularia californica	N	21	18	
2488	California bay	Umbellularia californica	N	28		
2489	California bay	Umbellularia californica	N	30	19	12
2492	California bay	Umbellularia californica	N	18	16	
2505	Coast live oak	Quercus agrifolia	N	25		
2552	California bay	Umbellularia californica	N	16	8	7
2554	California buckeye	Aesculus californica	N	14		
2557	California bay	Umbellularia californica	N	10	8	6
2558	California bay	Umbellularia californica	N	14		
2597	California bay	Umbellularia californica	N	8	6	
2598	California bay	Umbellularia californica	N	8	6	4
2599	California bay	Umbellularia californica	N	10		
2600	California bay	Umbellularia californica	N	13		
2601	California bay	Umbellularia californica	N	16		
2604	California bay	Umbellularia californica	N	12		
2605	California bay	Umbellularia californica	N	15	11	
2606	Elderberry	Sambucus sp.	N	6		
2607	California bay	Umbellularia californica	N	8		
2608	California bay	Umbellularia californica	N	24	12	
2609	Coast live oak	Quercus agrifolia	N	19	17	+
2610	California bay	Umbellularia californica	N	7	1.0	1
2611	California bay	Umbellularia californica	N	21	13	+-
2612	California bay	Umbellularia californica	N	13	5	-
2613	California bay	Umbellularia californica	N	11	+-	+
2614	California bay	Umbellularia californica	N	8	15	12
2615	California bay	Umbellularia californica	N	18	15	12
2616	California bay	Umbellularia californica	N	15	1	+
2617	California bay California bay	Umbellularia californica	N	7	7	+
2618	<del></del>	Umbellularia californica	N	9	7	+
2619 2620	California bay Coast live oak	Umbellularia californica  Quercus agrifolia	N N	10	+	+
2624	California bay	Umbellularia californica	N	9	3	1
2625	California bay	Umbellularia californica	N	7	1	+
2626	California bay	Umbellularia californica	N	40	11	+
2634	California bay	Umbellularia californica	N	8	7	+
2635	Coast live oak	Quercus agrifolia	N	7	ť	+
2637	California bay	Umbellularia californica	N	14	<del>                                     </del>	+
2638	California bay	Umbellularia californica	N	8	1	+
2640	California bay	Umbellularia californica	N	7	6	+
	California bay	Umbellularia californica	N	70	Ť	+
	, carrier and buy		+	+	-	-
2641 2643	California bay	Umbellularia californica	N	13	8	

2647	California bay	Umbellularia californica	N	17	П	Т
2648	California bay	Umbellularia californica	N	15		$\vdash$
2649	California bay	Umbellularia californica	N	16	$\vdash$	$\vdash$
2651	California bay	Umbellularia californica	N	7	4	+-
2652	California bay	Umbellularia californica	N	7	5	$\vdash$
2654			N	8	6	+-
2655	California bay California bay	Umbellularia californica Umbellularia californica	N	28	0	+-
			+			+
2658	California bay	Umbellularia californica	N	14		
2661	California bay	Umbellularia californica	N	23	12	-
2664	Coast live oak	Quercus agrifolia	N	~24	~16	
2667	California bay	Umbellularia californica	N	13	13	
2668	California bay	Umbellularia californica	N	8		
2669	California bay	Umbellularia californica	N	13	11	10
2670	California bay	Umbellularia californica	N	8		
2671	California bay	Umbellularia californica	N	12	10	
2672	California bay	Umbellularia californica	N	11		
2676	Coast live oak	Quercus agrifolia	N	14		
2677	California bay	Umbellularia californica	N	11	9	${}^{+}$
2678	California bay	Umbellularia californica	N	12	11	10
2679	California bay	Umbellularia californica	N	20	17	17
			+		17	17
2680	California bay	Umbellularia californica	N	14	-	+
2682	California bay	Umbellularia californica	N	11	7	-
2683	California bay	Umbellularia californica	N	7	<u> </u>	1
2684	California bay	Umbellularia californica	N	23	19	12
2686	California bay	Umbellularia californica	N	38		
2688	California bay	Umbellularia californica	N	12		
2689	California bay	Umbellularia californica	N	25	Γ	П
2690	California bay	Umbellularia californica	N	30		
2691	California bay	Umbellularia californica	N	8		$\top$
2692	California bay	Umbellularia californica	N	62	25	t
2693	California bay	Umbellularia californica	N	14	-	+
	<del></del>	Umbellularia californica	N	10	<del>                                     </del>	+-
2694	California bay		+			+
2695	California bay	Umbellularia californica	N	8	<b>.</b>	<del> </del>
2696	California bay	Umbellularia californica	N	17	16	14
2699	California bay	Umbellularia californica	N	37	~12	↓
2700	California bay	Umbellularia californica	N	8		
2701	California bay	Umbellularia californica	N	9		
2703	California bay	Umbellularia californica	N	13		
2705	California bay	Umbellularia californica	N	21	17	14
2707	California bay	Umbellularia californica	N	14		
2708	California bay	Umbellularia californica	N	29	24	21
2709	California bay	Umbellularia californica	N	12		+
2710	California bay	Umbellularia californica	N	61		+-
2712		Umbellularia californica	N	13	_	+-
	California bay		+			1
2713	California bay	Umbellularia californica	N	15		-
2716	California bay	Umbellularia californica	N	17	14	_
2719	California bay	Umbellularia californica	N	16	_	_
2721	Coast live oak	Quercus agrifolia	N	15		1
2723	California bay	Umbellularia californica	N	19		
2724	California bay	Umbellularia californica	N	10	L	
2725	California bay	Umbellularia californica	N	6	T	
2726	Coast live oak	Quercus agrifolia	N	17		T
2728	California bay	Umbellularia californica	N	14	T T	T
2729	California bay	Umbellularia californica	N	10	$\vdash$	t
2730	Coast live oak	Quercus agrifolia	N	17	$\vdash$	+
	_		+	<del>†                                      </del>	$\vdash$	+
2731	California bay	Umbellularia californica	N	7	$\vdash$	+
2733	California bay	Umbellularia californica	N	9	1.0	1.0
2734	California bay	Umbellularia californica	N	15	12	10
2735	California bay	Umbellularia californica	N	11	<u> </u>	1
2739	California bay	Umbellularia californica	N	11	8	_
2740	Coast live oak	Quercus agrifolia	N	20		
2742	California bay	Umbellularia californica	N	13		
2743	California bay	Umbellularia californica	N	7	6	4
2744	California bay	Umbellularia californica	N	9	6	
2746	California bay	Umbellularia californica	N	11	<u> </u>	$\vdash$
2747	Coast live oak	Quercus agrifolia	N	16	$\vdash$	+
2748		Umbellularia californica	N	12	$\vdash$	+
	California bay		+		$\vdash$	+-
2750	Pacific madrone	Arbutus menziesii	N	21	-	+
2751	Coast live oak	Quercus agrifolia	N	20	-	-
2752	California bay	Umbellularia californica	N	10		
2753	Pacific madrone	Arbutus menziesii	N	21		
2754	California bay	Umbellularia californica	N	10		

2755	California bay	Umbellularia californica	N	10		
2756	California bay	Umbellularia californica	N	12		
2757	Coast live oak	Quercus agrifolia	N	16		
2758	California bay	Umbellularia californica	N	10	8	
2759	California bay	Umbellularia californica	N	10	6	
2760	California bay	Umbellularia californica	N	7		
2761	California bay	Umbellularia californica	N	10	9	
2762	California bay	Umbellularia californica	N	10		
2763	Coast live oak	Quercus agrifolia	N	7		
2764	California bay	Umbellularia californica	N	9		
2765	Coast live oak	Quercus agrifolia	N	8		
2767	California bay	Umbellularia californica	N	6		
2768	Coast live oak	Quercus agrifolia	N	9		
2770	Coast live oak	Quercus agrifolia	N	14		
2771	California bay	Umbellularia californica	N	~24	16	13
2772	California bay	Umbellularia californica	N	12		
2774	California bay	Umbellularia californica	N	8	8	
2775	California bay	Umbellularia californica	N	10	6	
2777	California bay	Umbellularia californica	N	13	12	7
2778	California bay	Umbellularia californica	N	8		
2779	California bay	Umbellularia californica	N	9		
2780	California bay	Umbellularia californica	N	11	9	
2781	California bay	Umbellularia californica	N	7		
2782	California bay	Umbellularia californica	N	21	8	
2783	California bay	Umbellularia californica	N	8	Ť	
2784	California bay	Umbellularia californica	N	18	12	
	California bay	Umbellularia californica	N	12	12	$\vdash$
2785 2786	Coast live oak	Quercus agrifolia	N	16		$\vdash$
	+	Umbellularia californica	N	13	6	3
2787	California bay Coast live oak	t		_	0	3
2788	+	Quercus agrifolia	N N	12		-
2789	California bay	Umbellularia californica				
2790	California bay	Umbellularia californica	N	13	9	9
2791	Coast live oak	Quercus agrifolia	N	13		
2792	California bay	Umbellularia californica	N	14	12	
2793	California bay	Umbellularia californica	N	6	_	_
2794	California bay	Umbellularia californica	N	7	6	
2795	Coast live oak	Quercus agrifolia	N	16		
2802	Coast live oak	Quercus agrifolia	N	5		
2803	Valley oak	Quercus lobata	N	18		
2805	Cork oak	Quercus suber	I	19		
2806	Valley oak	Quercus lobata	N	20		
2807	Valley oak	Quercus lobata	N	22		
2808	Valley oak	Quercus lobata	N	22		_
2818	Valley oak	Quercus lobata	N	17		
2819	Valley oak	Quercus lobata	N	14		
2823	Valley oak	Quercus lobata	N	12		
2824	Valley oak	Quercus lobata	N	13		
2825	Valley oak	Quercus lobata	N	12		
2826	Valley oak	Quercus lobata	N	16		
2827	Valley oak	Quercus lobata	N	13		
2828	Valley oak	Quercus lobata	N	10		
2829	Valley oak	Quercus lobata	N	14		
2830	Valley oak	Quercus lobata	N	20		
2831	Coast live oak	Quercus agrifolia	N	5		
2832	Coast live oak	Quercus agrifolia	N	8		
2834	California bay	Umbellularia californica	N	7		
2835	Coast live oak	Quercus agrifolia	N	29		
2836	California bay	Umbellularia californica	N	24		
2837	California bay	Umbellularia californica	N	10		
2838	California bay	Umbellularia californica	N	14		
2839	California bay	Umbellularia californica	N	28		
2843	Coast live oak	Quercus agrifolia	N	21		
2854	Coast live oak	Quercus agrifolia	N	6		
2855	Coast live oak	Quercus agrifolia	N	~5		$\vdash$
			+	7		$\vdash$
2856	Coast live oak	Quercus agrifolia	N	_		<del>                                     </del>
2857	Valley oak	Quercus lobata	N	24		<u> </u>
2864	Interior Live oak	Quercus wislizeni	N	14	_	$\vdash$
2865	Coast live oak	Quercus agrifolia	N	19		_
2866	Coast live oak	Quercus agrifolia	N	24		<u> </u>
2867	California bay	Umbellularia californica	N	12		$\vdash$
2868	California bay	Umbellularia californica	N	13	_	⊢
2869	Coast live oak	Quercus agrifolia	N	14	I	I

2881	Coast live oak	Quercus agrifolia	N	6	Т	T
2882	California bay	Umbellularia californica	N	12	+	+
2883	California bay	Umbellularia californica	N	22	+	
2884	California bay	Umbellularia californica	N	7	+	+
2885	California bay	Umbellularia californica	N	14	+	+
2886	California bay	Umbellularia californica	N	10	+	+
2887	California bay	Umbellularia californica	N	10	+	+
2888	Coast live oak	Quercus agrifolia	N	6	+	+
2889	Coast live oak	Quercus agrifolia	N	4	+	+
2890	California bay	Umbellularia californica	N	17	+	+-
2891	California bay	Umbellularia californica	N	28	+	+
2892	Coast live oak	Quercus agrifolia	N	34	+	+
2893	California bay	Umbellularia californica	N	16	+	+
2894B	Coast live oak	Quercus agrifolia	N	18	+	+
2894 2894	Coast live oak	Quercus agrifolia	N	15	+	+
2894 2895B	California bay	Umbellularia californica	N	12	+	+
2895D 2895		Umbellularia californica	N	17	+	+
2895 2896B	California bay		N	19	+	+
		Quercus agrifolia Umbellularia californica	N		1.5	-
2896 2897	California bay	Umbellularia californica	N	12	15	9
	California bay		N		10	9
2898	Coast live oak	Quercus agrifolia	N	40	+	1
2899B	California bay	Umbellularia californica		8	+	+
2899	California bay	Umbellularia californica	N N	26	16	-
2900	California bay	Umbellularia californica		24	16	-
2901	Valley oak	Quercus lobata	N	30	+	+
2902	California bay	Umbellularia californica	N	20	1	1
2903	California bay	Umbellularia californica	N	20	14	10
2904	California bay	Umbellularia californica	N	24	22	13
2905	California bay	Umbellularia californica	N	16	14	8
2906	California bay	Umbellularia californica	N	19	_	
2907	California bay	Umbellularia californica	N	16		
2908	California bay	Umbellularia californica	N	22		<u> </u>
2909	California bay	Umbellularia californica	N	23	ļ	ļ
2910	California bay	Umbellularia californica	N	22		
2911	California bay	Umbellularia californica	N	15		
2912	Coast live oak	Quercus agrifolia	N	23		
2913	California bay	Umbellularia californica	N	22	17	$\perp$
2914	California bay	Umbellularia californica	N	17	15	
2915	Valley oak	Quercus lobata	N	21		

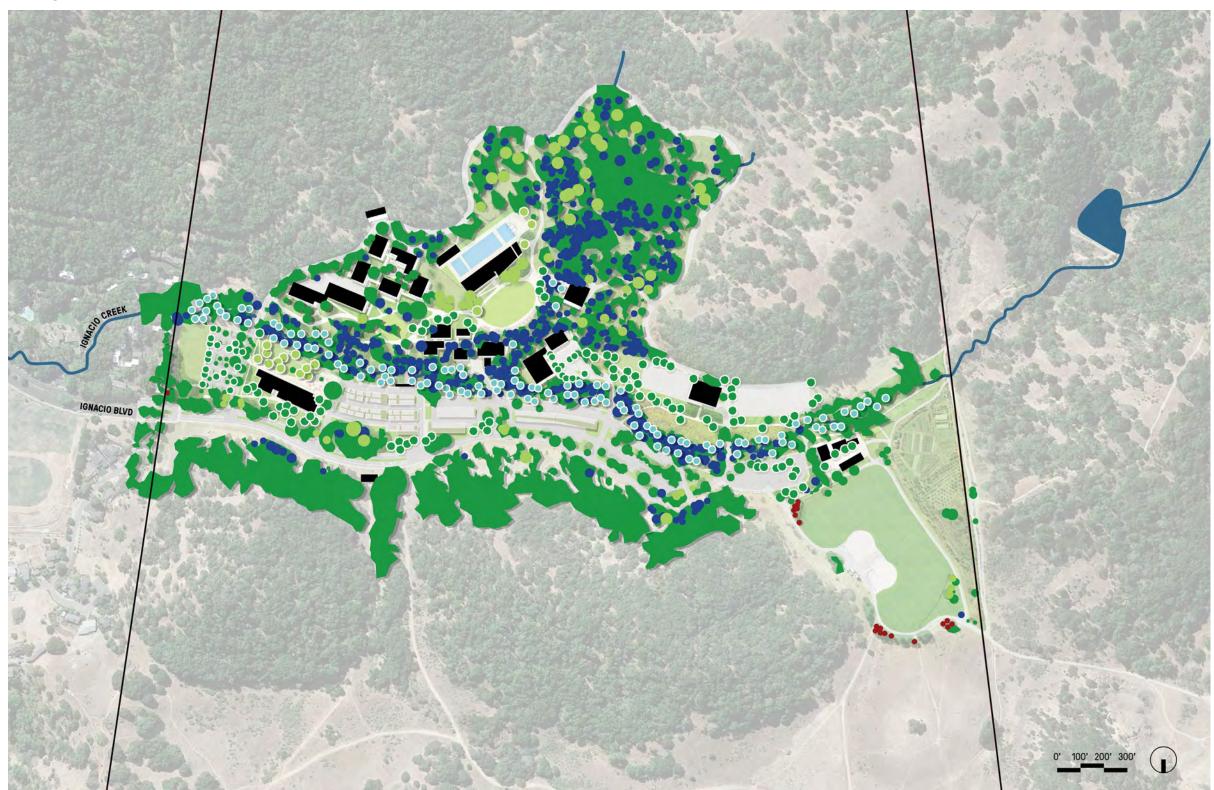


- Existing Oak Woodland (Mostly Coast Live Oak)
- Existing Deciduous Oaks (Valley Oak and English Oak)
- Existing California Bay Trees
- Existing Redwoods
- Existing Non-native Ornamental Trees

- Proposed Live Oaks
  Proposed Valley Oaks
  Proposed Creek Corridor Trees
  (Black Oak, Big Leaf Maple, California Buckeye, Blue Elderberry)

### **Vegetation: Trees**

#### **Proposed**



The Indian Valley Campus' many trees are predominantly broadleaf evergreens, with Coast Live Oaks on drier slopes and California Bays along Ignacio Creek and its branches. Some deciduous oaks - especially Valley Oaks - occur throughout oak woodland and uphill of the Central Green. Of the few trees planted with the development of the campus, notable are deciduous English Oaks marking the entrance drives to parking lots and redwoods on the corners of the Ball Field.

Given the distinct and stunning natural beauty of the campus' setting, and the fact that the campus abuts the Indian Valley and Ignacio Valley Preserves, the Landscape Master Plan proposes using only tree species native to Marin and preferably the Indian Valley watershed going forward, per the Plant Palette later in the report. Proposed tree plantings include a handful of deciduous Valley Oaks to shade the Library Plaza meadow during warmer months and more Coast Live Oaks to shade parking lots P1 and P6. The upcoming planting along Ignacio Creek and its branches includes almost 500 trees consisting of Coast Live Oak, Black Oak, Big Leaf Maple and California Buckeye. Unfortunately, until resolution of Sudden Oak Death, no additional California Bays are to be planted.

# **Vegetation Inventory: Understory Planting**

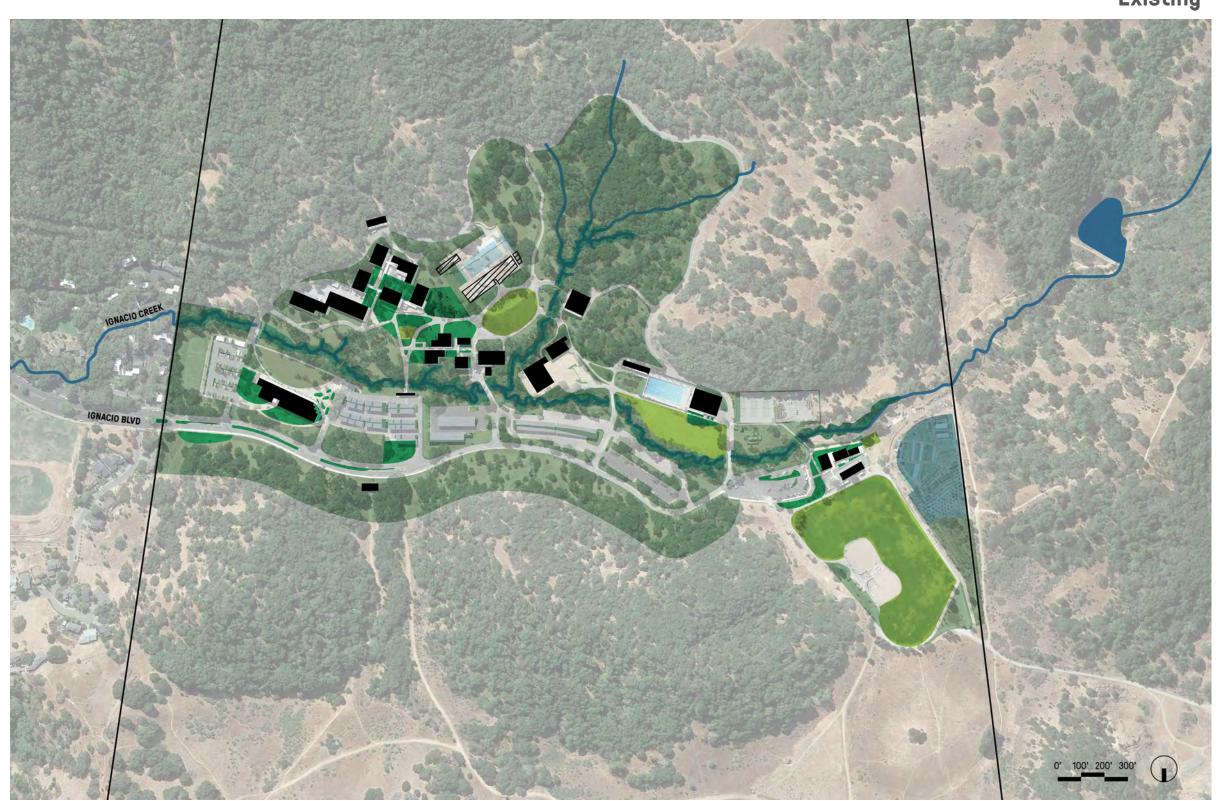
The Indian Valley Campus includes more than 60 species of understory plants, half of which are Marin native species and half introduced. In the campus' oak woodland setting, some of the understory plants are merely young trees. Per Cal-IPC, a handful of the introduced species are categorized as highly invasive in natural settings – Blackberry, French Broom, Spanish Broom and Yellow Star-Thistle – and should be reduced and removed over time. The understory planting inventory is available in AutoCAD and on the associated matrix on the adjacent page as a campus planning and design tool as well as a teaching resource.



Мар#	Species	Latin Name	Native/	
1	Woods (gross as Invulab		Introduced	
2	Weeds/grasses/mulch Irrigated ornamentals		N/I	
	imgated ornamentals	Toxicodendron	11/1	
3	Poison oak	diversilobum	N	
4	Coyote brush	Baccharis pilularis	N	
5	California buckeye	Aesculus californica	N	
6	Fern	Class Polypodiopsida	N/I	
7	California blackberry	Rubus ursinus	N	
8	Horsetail	Equistum telmateia	N/I	
9	Coast live oak	Quercus agrifolia	N	
10	California bay	Umbellularia californica	N	
11	Himalayan blackberry	Rubus armeniacus	T.	
12	Rose	Rosa sp.	N/I	
13	French broom	Genista monspessulana	Ĕ	
14	Honeysuckle	Lonicera sp.	N/I	
15	Cattail	Typha sp.	N/I	
16	Spanish broom	Spartium junceum	1	
17	Common snowberry	Symphoricarpos albus	N	
18	Blue elderberry	Sambucus cerulea	N	
19	Sedge/ tall grasses/ rush	#N/A	N/I	
20	Iris	Iris sp.	N/I	
21	Valley oak	Quercus lobata	N	
22	Lomandra	Lomandra sp.	l.	
23	Ornamental grass		N/I	
24	Pacific wax myrtle	Myrica californica	N	
25	California fuchsia	Epilobium canum	N	
26	Red bud	Cercus sp.	N/I	
27	Thistle	Asteraceae family	N/I	
28	Irrigated turf		20000000	
29	Manzanita	Arctostaphylos sp.	N/I	
30	Coffeeberry	Frangula californica	N	
31	Creeping mahonia	Mahonia repens	N	
32	Currant	Ribes sp.	N/I	
33	Landscape plants		N/I	
34	Interior live oak	Quercus wislizenii	N	
35	Leymus	Lymus sp.	N/I	
36	Chinese pistache	Pisticia chinensis	l.	
37	English oak	Quercus robur	ļ	
38	Rock rose	Cistus sp.	Î	
39	Toyon	Heteromeles arbutifolia	N	

40	Plum	Prunus spp.	
41	Pacific madrone	Arbutus menziesii	N
42	Rose of Sharon	Hibiscus syriacus	
43	Oleander	Nerium oleander	
44	Stinkwort	Dittrichia graveolens	Į.
45	Thomy olive	Elaeagnus pungens	
46	Bottlebrush	Callistemon spp.	)
47	Treasure flower	Gazania regins	
48	European olive	Olea europaea	
49	Sticky Monkey flower	Diplacus aurantiacus	N
50	Creeping lantana	Lantana montevidensis	<b>I</b> <sup>2</sup> <sub>3</sub>
51	Mediterranean spurge	Euphorbia characias	Į
52	Coast silk tassel	Garrya elliptica	N
53	Common thyme	Thymus vulgaris	
54	California sycamore	Platanus racemosa	N
55	Yellow star thistle	Centaurea solstitialis	į.
56	Holy oak	Quercus ilix	
57	Sage	Salvia sp.	N/I
58	Boxwood	Buxus sp.	į,
59	Podocarpus Afrocarpus sp.		
60	Catmint Nepeta sp.		E
61	Japanese pachysandra	Pachysandra terminalis	Ţ
62	Blackwood acacia	Acacia melanoxylon	
63	Ceanothus	Ceanothus spp.	N
64	Black oak	Quercus kelloggii	N
65	Coastal rosemary	Westringia fruticosa	Ĺ
66	Pink trumpet vine	Podranea ricasoliana	Ĺ
67	Deer grass	Muhlenbergia rigens	N

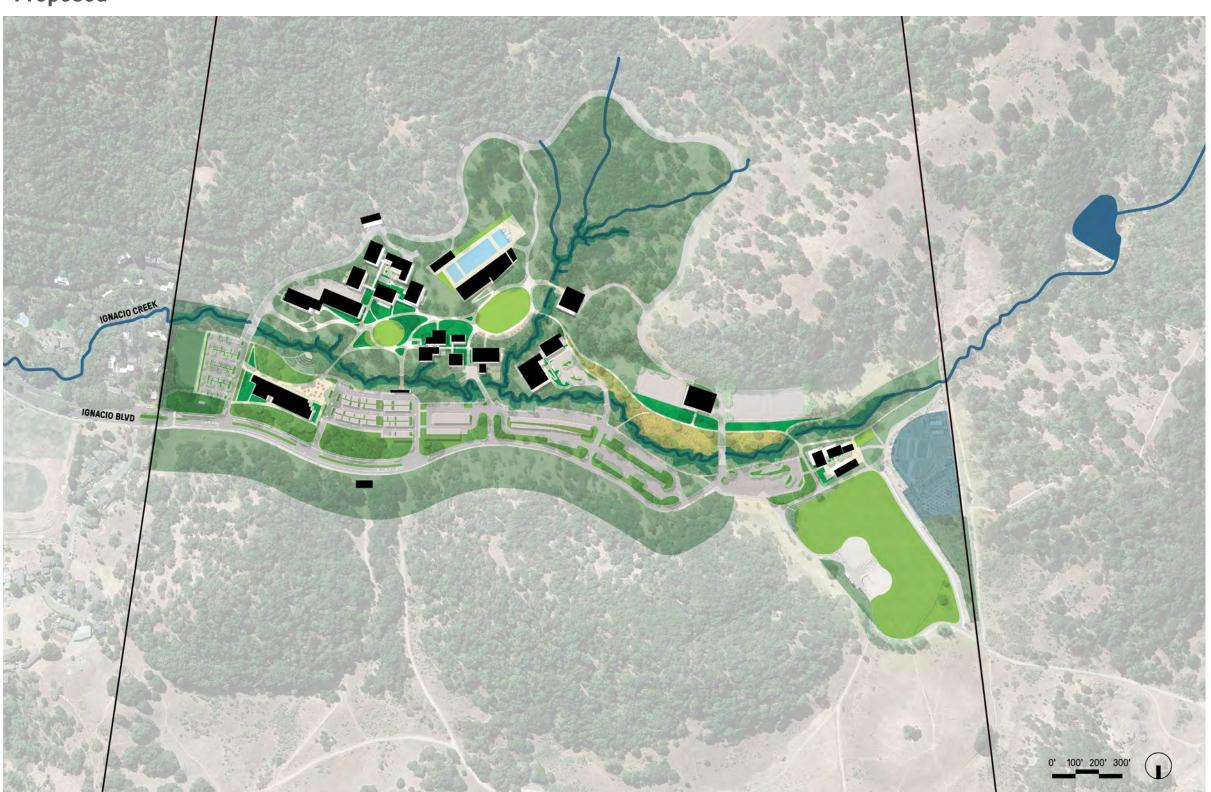
#### **Existing**



Maintained Core:
Shrubs/Groundcover
Maintained Core: Meadow Lawn
Maintained Core: Grassland
Wildflower Meadow
Creek Corridor:
Shrubs/Groundcover
Naturalized Periphery
(Unirrigated)
Organic Farm

#### **Vegetation: Understory Planting**

#### **Proposed**



The Indian Valley Campus' ground plane is predominantly unirrigated naturalized understory vegetation, with small areas of maintained irrigated understory planting surrounding buildings. Maintained irrigated lawn occurs at the Central Garden, Organic Farm and ball felds, with the Campus Green and "swim meet" meadow adjacent to the original pool recently lawn but currently used for construction logistics.

Given the distinct and stunning natural beauty of the campus' setting, and the fact that the campus abuts the Indian Valley and Ignacio Valley Preserves, the Landscape Master Plan proposes focusing on understory species native to Marin and preferably the Indian Valley watershed going forward, per the Plant Palette later in the report. The Landscape Master Plan shows continuing to prioritize maintained irrigated understory planting surrounding buildings and the campus' linked outdoor spaces, both to achieve an attractive and tidier character as well as a fire-smart landscape strategy. Irrigated maintained meadow lawn is shown solely at the campus community gathering spaces at the Central Garden, Campus Green and Organic Farm, and at the ball fields. After the original pool is decommissioned, the "swim meet" lawn is shown converted to a native wildflower meadow.

The campus periphery remains naturalized unirrigated understory planting, which, where possible, will be restored with native species. Significant riparian shrub planting along Ignacio Creek in the next few years will restore creek habitat.

# Fire Hazard Map

Marin County's "MarinMap" GIS mapping shows the Indian Valley Campus in a High fire hazard severity zone, bordering on areas of Very High fire hazard severity to the south and southeast and areas of Moderate fire hazard severity to the west and northwest.

The "MarinMap" GIS mapping also shows the Indian Valley Campus located within the Urban Wildland Interface.





https://www.arcgis.com/home/webmap/viewer.html?panel=gallery&suggest-Field=true&url=https%3A%2F%2Fgis.marinpublic.com%2Farcgis%2Frest%2Fservices%2FMarinMap2%2F0pen\_Data\_Download%2FMapServer%2F70

# Flood Hazard Map



Per FEMA Flood Mapping, the Indian Valley Campus is shown as an Area of Minimal Flood Hazard.

Ignacio Creek is not shown with a flood designation within the campus, and is shown as a regulatory floodway east of the campus.

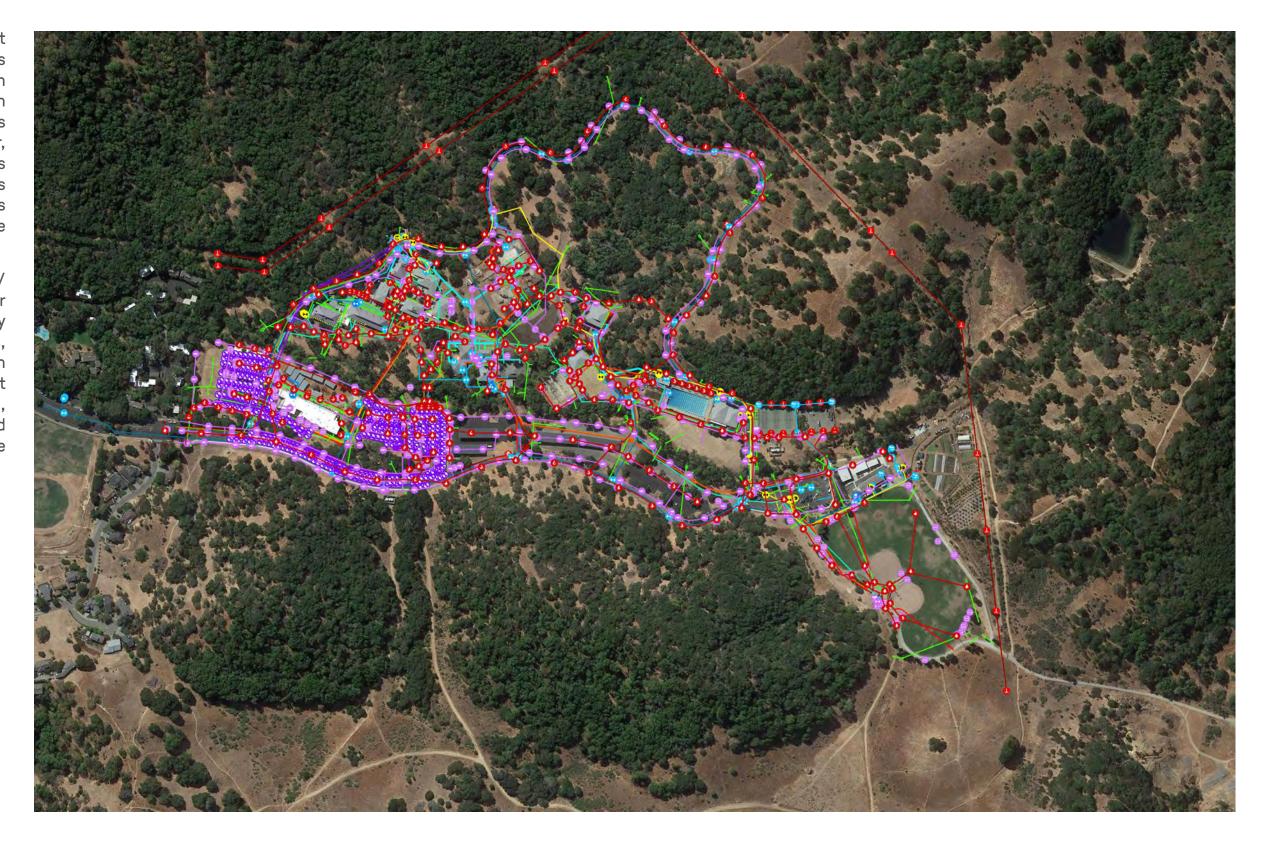
Flood Hazard Zones: Regulatory Floodway **Area of Minimal Flood Hazard** 

MAP PROJECTION: GCS, GEODETIC REFERENCE SYSTEM 1980; VERTICAL DATUM: NAVD88 https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.htm-l?id=8b0adb51996444d4879338b5529aa9cd

### **Campus Utilities Map**

The campus has utility lines traversing most areas to serve buildings, outdoor facilities and campus outdoor spaces, as shown in the campus utilities GIS database. In addition to typical utilities such as pipes and conduits for power, data, gas, water, sewer, and storm drainage, the campus has a geothermal system in the parking areas flanking the Library. The campus also has 52,000sf of photovoltaic panels over the three larger, flatter parking areas.

As on any campus, each building, site/landscape and utility project shall endeavor to locate or shift above-ground utility elements such as transformers, backflows, chillers and overhead lines as well as flush vaults and boxes to least visible and least prominent locations, and where possible, to consolidate and relocate above-ground utility elements below ground or out of the campus core to peripheral areas.





#### **Plant Palette**

#### **TREES**

Mai	ntained	Naturalized	Creek			IVC Watershed	Example on	Hydrozone	Dimensions	Evergreen or		
(	Core	Periphery	Corridor	Botanical Name	Common Name	Native?	Campus (ID #)	(Wucols)	(Height x Width)	Deciduous	Color, Seasonality	Notes
	yes	-	yes	Acer macrophyllum	Big Leaf Maple	Marin	-	M	70' x 50'	deciduous	golden fall foliage	Ignacio Creek planting project
	yes	yes	yes	Aesculus californica	California Buckeye	IVC watershed	1814	VL	30' x 30'	deciduous	white flowers in spring	Ignacio Creek planting project
	1	yes	-	Arbutus menziesii	Madrone	IVC watershed	-	L	35' x 20'	evergreen		
	yes	yes	yes	Quercus agrifolia	Coast Live Oak	IVC watershed	1245	VL	60' x 60'	evergreen	glossy dark green leaves	Ignacio Creek planting project
	yes	yes	yes	Quercus lobata	Valley Oak	IVC watershed	1084	L	75' x 75'	deciduous	bronze or gold fall foliage	
	yes	yes	-	Quercus wislizeni	Interior Live Oak	IVC watershed	507	Ĺ	60' x 60'	evergreen	glossy dark green leaves	

#### LINDEDCTODY

UNDERSTO	IKY										
Maintained	Naturalized	Creek			IVC Watershed	Example on	Hydrozone	Dimensions	Evergreen or		
Core	Periphery	Corridor	Botanical Name	Common Name	Native?	Campus (ID #)	(Wucols)	(Height x Width)	Deciduous	Color, Seasonality	Notes
yes	-	-	Arctostaphylos densiflora 'Howard McMinn'	Howard McMinn Manzanita	cultivar, Sonoma		L	4' x 6'	evergreen		
yes	-	-	Arctostaphylos hookeri 'Ken Taylor'	Ken Taylor Manzanita	cultivar, Marin		L	2' x 6'	evergreen		
yes	yes	-	Arctostaphylos manzanita ssp manzanita	Common Manzanita	IVC watershed		VL	8' x 8'	evergreen		
yes	yes	-	Arctostaphylos montana	Mt Tamalpais Manazanita	Marin		L	2' x 6'	evergreen		
yes	-	-	Arctostaphylos 'Pacific Mist'	Pacific Mist Manzanita	cultivar, S Cal		L	2' x 6'	evergreen	white to pink flowers	
yes	yes	-	Arctostaphylos virgata	Marin Manzanita	Marin		L	6' x 6'	evergreen	·	
-	-	yes	Aristolochia californica	California Pipevine	IVC watershed		L	10'-15' vine	deciduous	cream flowers late winter	
yes	yes	-	Baccharis pilularis consanguinea	Coyote Brush	IVC watershed		L	3' x 5'	evergreen		
yes	-	-	Baccharis pilularis 'Pigeon Point'	Pigeon Point Coyote Brush	cultivar, Marin		L	2' x 5'	evergreen	white to cream flower	
-	-	yes	Cornus sericea ssp occidentalis	Creek Dogwood	Marin		Н	8' x 8'	deciduous	white, purple, red flowers summer	Ignacio Creek planting project
-	yes	-	Corylus cornuta californica	California Hazel	IVC watershed		L	12' x12'	deciduous		
yes	yes	-	Diplacus aurantiacus	Sticky Monkeyflower	IVC watershed		VL	2' x 2'	evergreen	local orange flower	
-	yes	-	Eriogonum fasciculatum	California Buckwheat	IVC watershed		L	2' x 3'	evergreen	<u> </u>	
yes	yes	-	Frangula californica	Coffeeberry	IVC watershed		L	6' x 6'	evergreen	yellowish flower	Ignacio Creek planting project
yes	-	-	Frangula californica 'Mound San Bruno'	Mound San Bruno Coffeeberry	cultivar, Marin		L	4' x 4'	evergreen	yellowish flower	
-	yes	yes	Fragaria vesca	Woodland Strawberry	IVC watershed		M	6" x 24"	evergreen		
yes	ves	-	Garrya elliptica	Wavyleaf Silktassel	Marin		L	15' x 10'	evergreen	white to pink tassel flower	Potentially for screening
yes	ves	-	Heteromeles arbutifolia	Toyon	IVC watershed		VL	25' x 15'	evergreen	showy white flowers, red berries	Ignacio Creek planting project
-	ves	-	Holodiscus discolor	Cream Bush	IVC watershed		L	6' x 6'	deciduous	,	
yes	yes	-	Iris douglasiana var major	Douglas Iris	IVC watershed		L	2' x 2'	perennial	cream flowers	Best in part shade woodland
yes	yes	-	Iris macrosiphon	Long Tubed Iris	IVC watershed		L	2' x 1'	perennial	cream flowers in spring	propagated by IVC Farm
-	-	yes	Juncus patens	Rush	Marin		L	2' x 1'	perennial .	, ,	propagated by IVC Farm
-	-	yes	Lonicera hispidula	California Honeysuckle	IVC watershed		L	4' x 8'; vine	perennial	pink flowers/spring, summer	Ignacio Creek planting project
-	-		Myrica californica	Pacific Wax Myrtle	Marin		L	15' x 15'	evergreen	yellow flowers/summer	Ignacio Creek planting project
yes	yes	-	Penstemon heterophyllus 'Blue Bedder'	Foothill Penstemon	cultivar, Marin		L	2' x 2'	perennial	purple flowers	propagated by IVC Farm
-	yes	-	Rhamnus crocea	Redberry	IVC watershed		L	3' x 3'	evergreen	red berries	
-	-	yes	Rhododendron occidentale	Western Azalea	Marin		M	10' x 10'	deciduous	white, pink flowers/spring	Ignacio Creek planting project
yes	-	yes	Ribes sanguineum	Red Flowering Currant	Marin		L	7' x 7'	deciduous	pink or red flowers	
yes	-	-	Rosa californica	California Wildrose	IVC watershed		L	8' x 10'	semi-deciduous	pink Feb-Nov	Ignacio Creek planting project
-	-	yes	Salix lucida lasiandra	Pacific Willow	Marin		Н	30' x 20'	deciduous	white, yellow flowers/ spring	Ignacio Creek planting project
yes	yes	-	Salvia mellifera	Black Sage	Marin		L	3' x 3'	evergreen		
yes	-	-	Salvia spathacea	Hummingbird Sage	S Marin		L	2' x 3'	evergreen	blue, lilac, purple flowers Mar-July	
-	-	yes	Sambucus nigra cerulea	Blue Elderberry	IVC watershed		L	15' x 15'	deciduous		Ignacio Creek planting project
-	yes	yes	Satureja douglasii	Yerba Buena	IVC watershed		L	6" x 24"	perennial	white flowers spring	
-	yes	yes	Scrophularia californica	California Bee Plant	IVC watershed		L	2' 'x 1'	perennial	red flowers winter, spring	
-	-	yes	Symphoricarpos albus laevigatus	Common Snowberry	IVC watershed		L	4' x 4'	deciduous		Ignacio Creek planting project
-	-		Vaccinium ovatum	Huckleberry	Marin		M	4' x 4'	evergreen	new growth in spring is red	
-	-	yes	Native Ferns Dryopteris arguta, Dryopteris ex	pansa, Polystichum munitum	IVC watershed		M	3' x 2'	evergreen		
yes	yes	-	Native Grasses Festuca californica, Festuca i		i IVC watershed		M to VL	2' height	summer deciduous		
yes	-	-	Meadow Lawn Sod Dwarf Fescue, overseeded with native wildflowers; Alternatives for low use areas include UC Verde Buffalo Grass, Native Bentgrass and Kurapia								

The Indian Valley Campus straddles Ignacio Creek and is nestled in a gently sloping bay and oak woodland valley surrounded by oak woodland hillsides, abutting the Indian Valley and Ignacio Valley Preserves. Given the distinct and stunning natural beauty of the campus' setting, and relatively intact native vegetation within campus, the Landscape Master Plan proposes focusing on tree and understory species native to Marin and preferably the Indian Valley watershed going forward.

Plant species tinted in red are campus framework species, and should be used extensively. Untinted selections are additional species that can be used as appropriate for specific local conditions. Understory plant species are predominantly evergreen carrying leaves throughout the year, waist high, relatively full in character, low water using, and intended to be used in natural form without hedging to reduce maintenance. Meadow lawn and lawn alternatives available in sod are tinted in orange and are the plant palette's sole nonnatives. Photos of select framework species are shown on the following pages.

The campus' Organic Farm & Garden offers a special opportunity to grow native species plants sourced from within the campus, and could be used to propagate "College of Marin" selections for both campuses.

Special thanks to Charlotte Torgovitsky, Garden Ambassador of the California Native Plant Society, for her knowledge and inventory of species native to the Indian Valley watershed.

#### Plant Palette: Trees



Quercus agrifolia (Coast Live Oak)



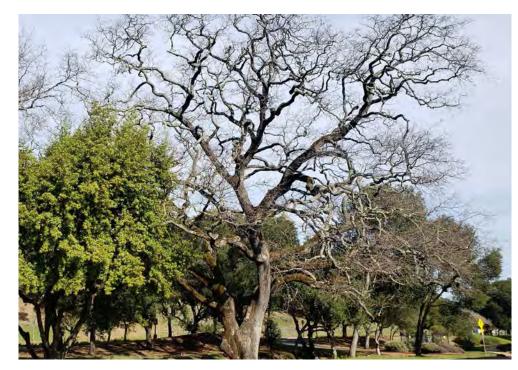
Quercus lobata (Valley Oak)



Quercus agrifolia (Coast Live Oak)



Umbellularia californica (California Bay)

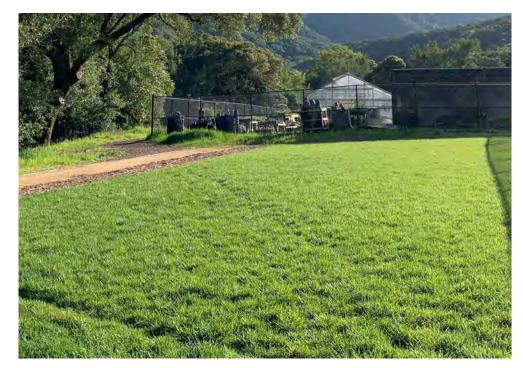


Quercus lobata (Valley Oak)



Quercus wislizeni (Interior Live Oak)

# Plant Palette: Understory



Meadow Lawn, to be overseeded with Native Wildflowers



Salvia mellifera (Black Sage)



Riparian Understory along Creek



Arctostaphylos hookeri 'Ken Taylor' (Ken Taylor Manzanita)



Grassland, to be restored, where possible, with Native Species



Frangula californica 'Mound San Bruno' (Coffeeberry)

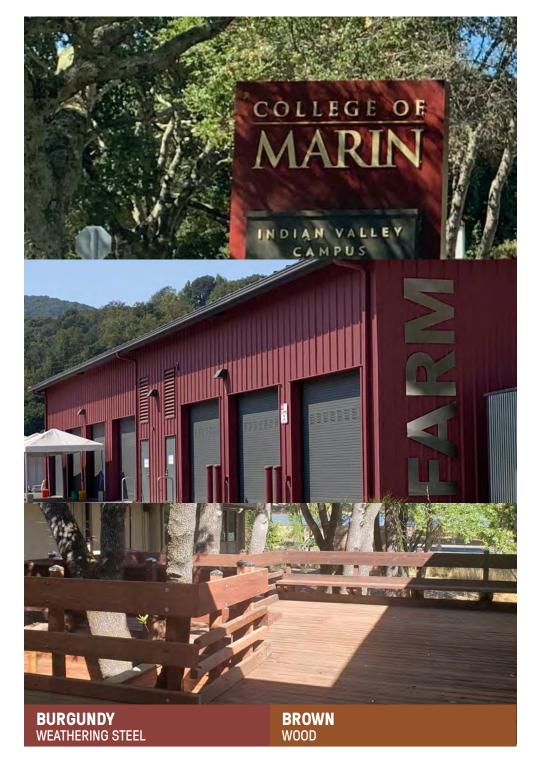
#### **Campus Outdoor Elements**

While the Indian Valley Campus' general character and beauty are established by oak woodland setting and creek, the campus comes alive with people – students, faculty and staff – and the outdoor elements that support them as they go about their studies, dining and socializing. Campus outdoor elements include individual and group tables & chairs and other seating, shade elements, trash receptacles, bike racks, lighting, signage, and paving. The Design Guidelines that follow provide a kit of parts for upcoming projects that build on and enhance the character of the Indian Valley Campus.

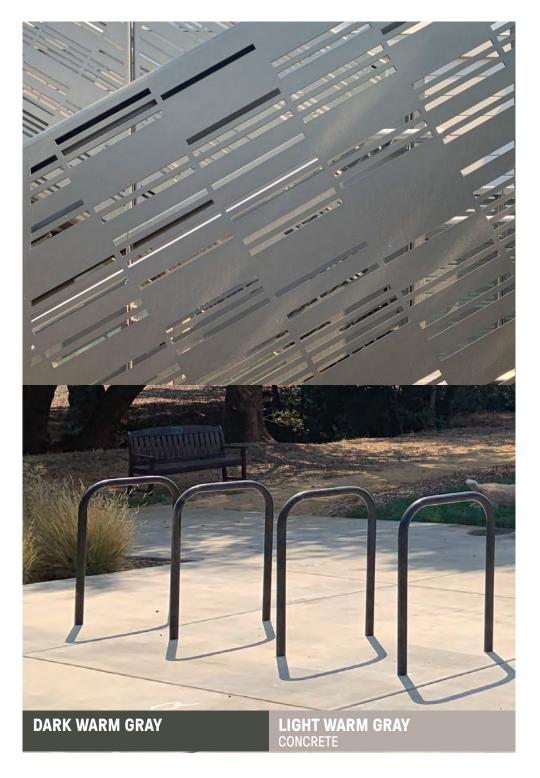
#### Color Palette

The Indian Valley Campus' many trees as well as views of the surrounding wooded hillsides provide a rich dark green setting with natural beauty for the campus. The colors of the most appealing existing site furnishings either attractively contrast – with burgundy/rusts, neutral silvered woods, whites, and light warm grays – or harmonize – with "tree trunk" browns and dark warm grays – with this setting. The corollary of this is to avoid jarring, unnatural colors, especially yellow, throughout campus.

### **Color Palette**







### **Site Furnishings**

The Indian Valley Campus' existing site furnishings include a wide range of designs and materials, with some working well and many furnishings older and becoming less usable and even unattractive. Ideally tables & chairs and other furniture are replaced about every two decades to keep the campus attractive and inviting.

#### Site Furnishings Palette

The Site Furnishings Palette includes durable, attractive furniture for both groups and individuals, to create a better used and more beautiful campus. The most common comment from students is a desire for more site furniture in attractive outdoor spaces, and this palette responds to that. New selections include rectangular communal tables & benches, round loose tables & chairs, and large umbrellas for adjustable shade. Existing selections carried forward include the recent pole lights and bike racks used at the Organic Farm. Special campus lighting for the proposed Library Plaza are light columns with aimable lights and space for banners.





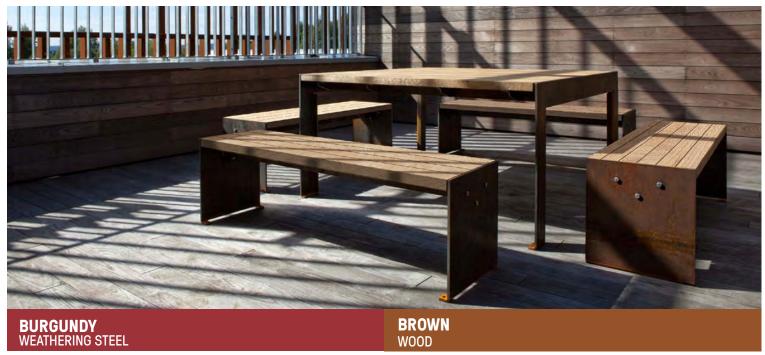








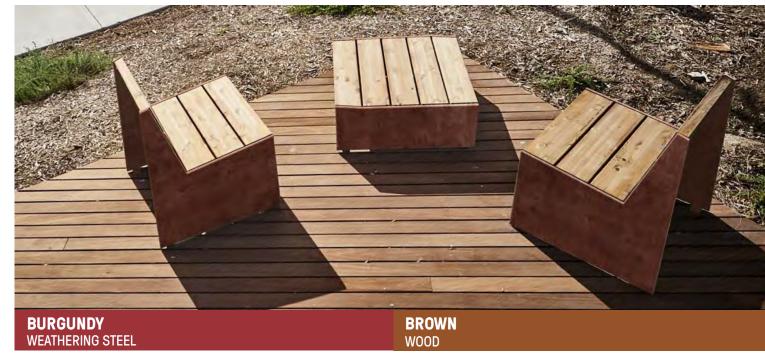
# **Site Furnishings Palette**



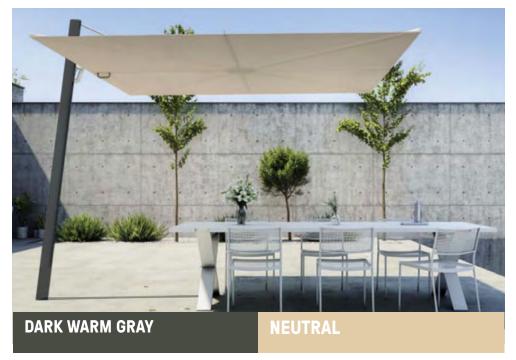
Communal Tables & Benches: Vestre Vroom, with Via Benches



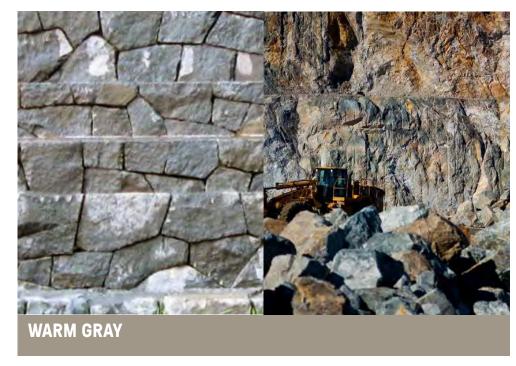
Loose Tables & Chairs: Landscape Forms Chipman



Lounge Furniture: Vestre Vroom



Umbrella: Umbrosa Spectra Ux Cantilever Umbrella



Stone Seat Walls: Local Graywacke Sandstone

# **Site Furnishings**



# **Site Furnishings Palette**



Typical Pole Light: AAL Largent (Existing)



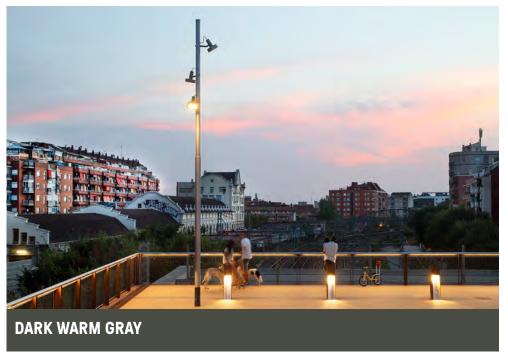
Trash Receptacles: Vestre Vroom



Main Walk Pole Light: Louis Poulsen Nest



Bike Rack: Ground Control Systems Hoop Runner (Existing)



Special Column Light: Landscape Forms Arne



**Bollard: Precast Concrete** 

#### **Existing**

As with the site furnishings, the Indian Valley Campus' existing signage includes a range of designs and materials, with some continuing to fit well with the campus and Color Palette and some out of place or superseded by more recent signs. Existing signage carried forward as proposed prototypes include the Campus Sign in the Ignacio Boulevard median, Vehicular Wayfinding Signs, and Pedestrian Wayfinding Signs. New selections include a digital screen wall, if needed, integrated with the Campus Sign, updated campus maps, and inspirational poetry and wayfinding integrated into the campus main walk's stone ribbon.

In addition to continuing to refine campus signage, as more people have smartphones maintaining a digital map of campus which can zoom into buildings to provide information about departments and rooms as well as events is becoming valuable.



**Campus Sign** 



**Digital Screen Wall** 



**Vehicular Wayfinding Sign** 



Campus Map



**Pedestrian Wayfinding Sign** 



Campus Map

# Signage

#### **Proposed**



Campus Sign



Digital Screen Wall, if needed, Integrated with Campus Sign



Vehicular Wayfinding Sign



Campus Map



**Pedestrian Wayfinding Sign** 



Poetry in Campus Main Walk's Stone Ribbon

#### **Campus Paving**

The Indian Valley Campus' paving in the pedestrian realm generally consists of a "nature preserve" vocabulary of wood decked bridges across Ignacio Creek and curvilinear asphalt walks. Paving within and around building clusters tends to be natural color concrete or wood decking. A few areas have other paving, such as the embossed colored concrete paving at the Library and flagstone "carpets" at the Central Garden.

The pedestrian realm paving palette continues forward the subset of the existing materials most in keeping with the campus "nature preserve" character. This includes wood decked bridges over the Creek and wood decking near special trees, and curvilinear asphalt walks, with an added ribbon of local stone from Marin's San Rafael Quarry highlighting the campus main walk (see prototype next page). Within and around buildings and building clusters, including a five foot non-combustible zone, paving is natural color concrete or gravel (see prototype next page).

Walls and seat walls shall be local stone from Marin's San Rafael Quarry (see prototype next page). Stairs, where needed, shall be natural color concrete, and handrails shall be brushed stainless steel.



Asphalt at Parking Lot



**Concrete Paving** 



**Colored Concrete Paving** 



**Concrete Seat Wall** 



**Concrete Planter** 



**Wood Decked Pedestrian Bridge** 



**Gravel** 



**Gravel Zone at Farm Building** 

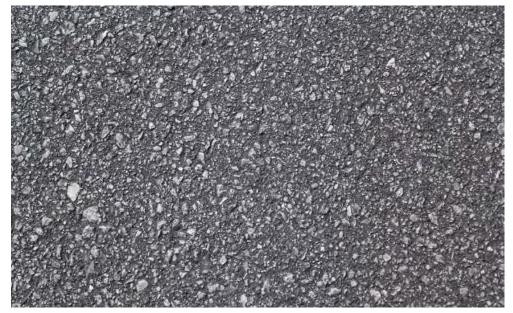


**Decomposed Granite** 



Flagstone at Central Garden

# **Campus Paving Palette**







**Asphalt** 

Concrete

**Wood Decking** 

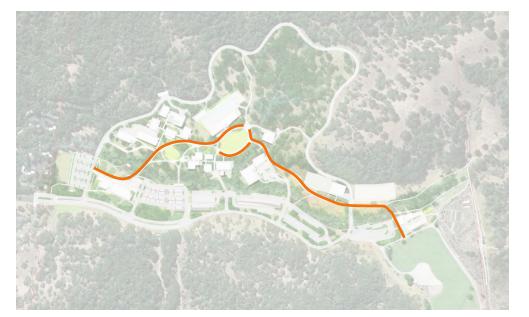




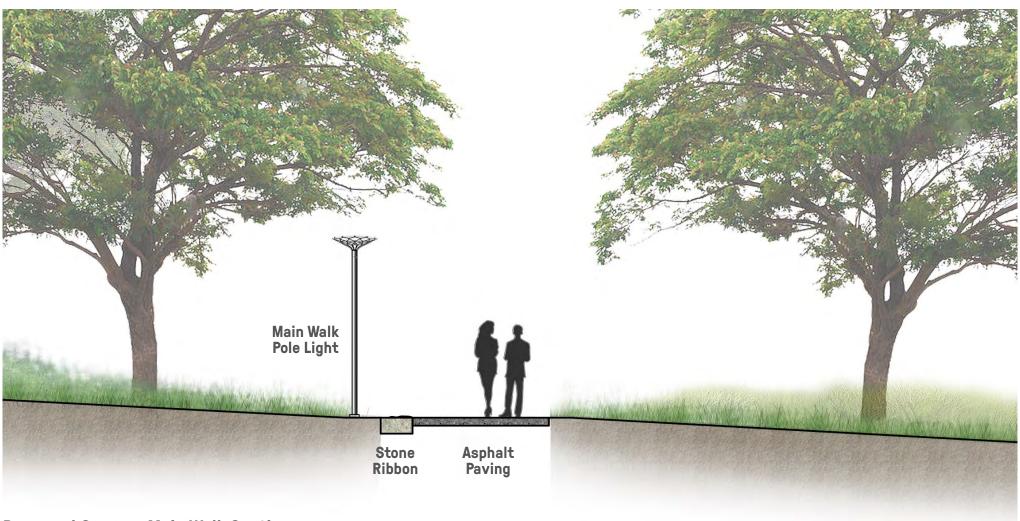
Gravel

Local Stone, from Marin's San Rafael Quarry

# **Campus Paving & Wall Prototypes**



**Campus Main Walk** 



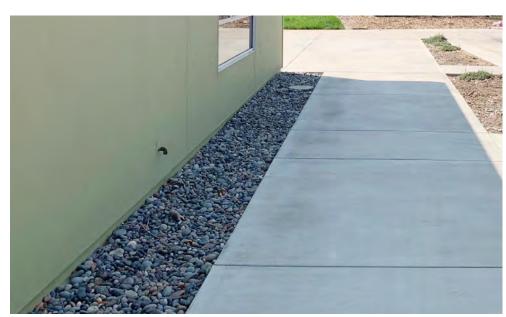
#### **Proposed Campus Main Walk Section**



Material: Asphalt + 2' Wide Ribbon of Local Stone from Marin's San Rafael Quarry + Poetry at Special Locations



Non-Combustible Zone around Buildings



Example at Organic Farm



**Material: Gravel or Concrete Paving** 



Seat Walls at Outdoor Classrooms and Terrace with Seating



**Outdoor Classroom** 



Material: Graywacke Sandstone, from Marin's San Rafael Quarry

