FOOTHILL COLLEGE

Foothill College 2014
FACILITIES MASTER PLAN UPDATE

Foothill College Campus
Foothill-De Anza Education Center

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Foothill College 2014
FACILITIES MASTER PLAN UPDATE

FOOTHILL-DE ANZA COMMUNITY COLLEGE DISTRICT

JULY 2014

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LETTER FROM THE PRESIDENT

It is with a great sense of excitement and pride that Foothill College presents its 2014 Facilities Master Plan Update. Guided by site design concepts adopted in 2009 and the current Educational Master Plan, the key themes of the work herein are:

Flexibility: *Provide modern, flexible facilities to support current and emerging models of instructional and service delivery.*

Sustainability: *Seize opportunities for sustainable design practices.*

Aesthetics: *Maintain the award-winning physical beauty of the campus.*

Stewardship: *Prioritize the best use of Measure C funding in response to projected enrollment trends.*

The historic highlight of this plan is the vision for the Foothill-De Anza Education Center that will open in September of 2016. Foothill, De Anza, and Mission colleges will collaborate in offering programs of instruction, student services, workforce development, and community outreach. This new facility will be a regional asset for all of Silicon Valley and represents a bright future for our underrepresented and underserved populations.

Foothill College was founded in 1957 with the motto: Educational Opportunity for All. Our Facilities Master Plan is one of the tools by which we will make good on that promise.

Judy C. Miner, Ed.D.
Foothill College, *President*

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INTRODUCTION

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INTRODUCTION

FOOTHILL COLLEGE MISSION STATEMENT

OUR MISSION

Foothill College offers educational excellence to diverse students seeking transfer, career preparation and enhancement, and basic skills mastery. We are committed to innovation, ongoing improvement, accessibility and serving our community.

OUR VISION

Foothill College envisions itself as a community of scholars where a diverse population of students, faculty and staff intersect and are engaged in the search for truth and meaning. We recognize that by necessity this search must be informed by a multiplicity of disciplinary modes of inquiry. In order to ensure that every student has the opportunity to share in this vision, Foothill College commits itself to providing students with the necessary student support services, outstanding instruction, and opportunities for leadership both within and outside the classroom. By enacting this vision, the college ensures that it remains the distinctive and innovative institution it has been since its inception.

OUR VALUES

Honesty, Integrity, Trust, Openness, Transparency, Forgiveness, Sustainability

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INTRODUCTION

Photo: Ellie Van Houtte

OUR PURPOSE

To provide access to educational opportunity for all with innovation and distinction.

Foothill College offers:

- An associate in arts or associate in science degree, or specialty certificate;
- Preparation for transfer to another college, university or post secondary institution;
- Career education, training, and services;
- Basic skills, English as a Second Language (ESL), leadership skills and student development; and
- Student support services to promote student success.

Foothill's success is measured by the following quality indicators:

- Access: Educational Opportunity for All
- Student Success: Completion of Student Goals
- Pedagogy, Scholarship, and Support of Learning
- Climate for Learning
- Fiscal and Enrollment Stability
- Reputation: Innovation and Distinctiveness

PURPOSE OF THE FACILITIES MASTER PLAN

The purpose of the 2014 Foothill College Facilities Master Plan is to provide a guide for future campus development at the Foothill College Campus in Los Altos Hills, California, and at the planned, new Foothill-De Anza Education Center at the site of the former Onizuka Air Force Station in Sunnyvale, California. The plan describes how the college's campuses will be improved to meet the educational mission, to serve changing needs and to support the projected enrollment.

The offices of the Foothill-De Anza Community College District are located on the Foothill College campus. The district facilities are accounted for separately from the college on the district space inventory and are not included in the Foothill College Facilities Master Plan.

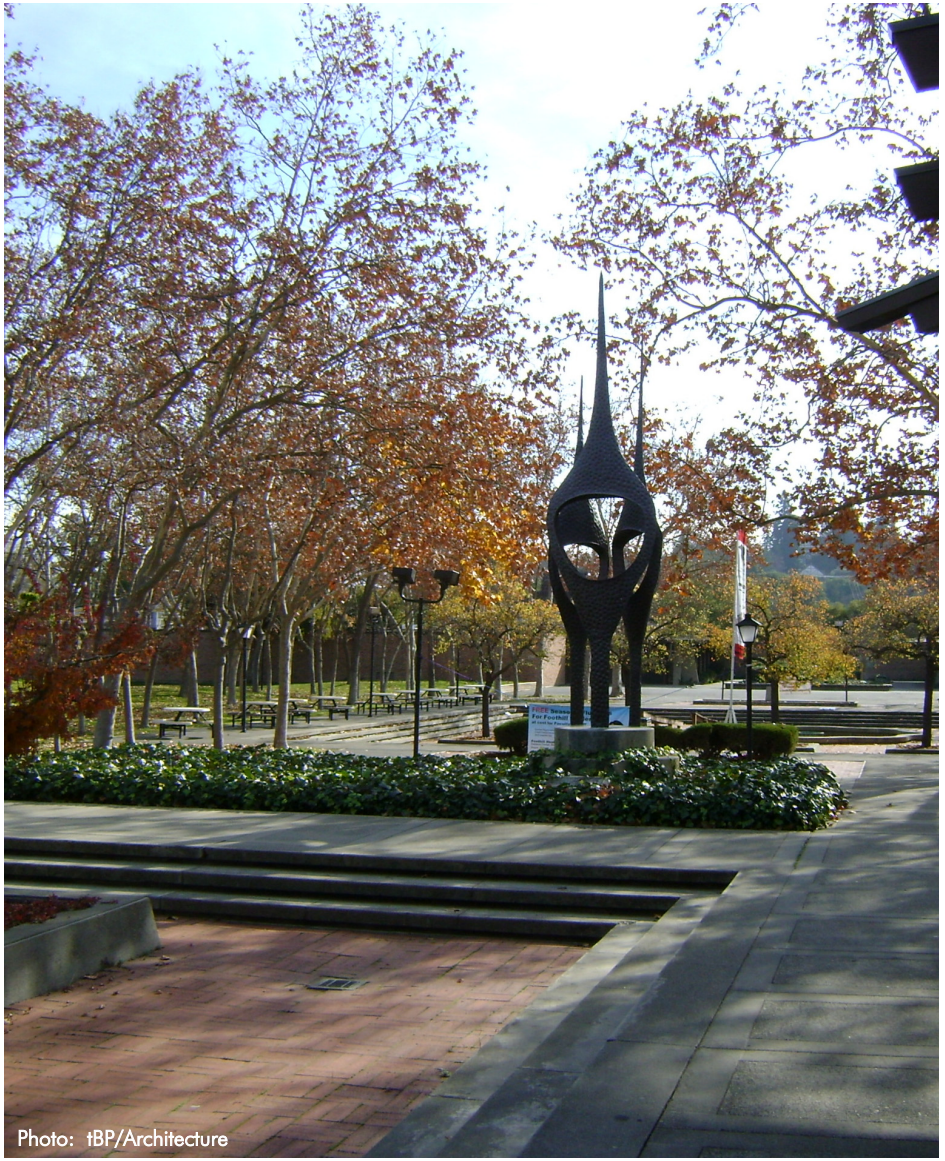

Photo: tBP/Architecture

PLANNING PROCESS

The 2014 Foothill College Facilities Master Plan is the result of a participatory planning process involving representatives of the college and the district. The process began with the review of a number of previous planning studies, including:

- 2010 –2015 Foothill College Technology Master Plan (2014 Update)
- 2011 Foothill College Educational and Strategic Master Plan
- 2009 Foothill College Sustainability Management Plan
- 2009 Foothill College Site Design Concepts
- 2007 Foothill-De Anza CCD Facilities Master Plan Update
- 2004 Foothill-De Anza CCD Planning Guidelines
- 1999 Foothill-De Anza CCD Facilities Master Plan

Next, the college implemented a planning process that included the analysis of factors, including:

- Results of Measure E and Measure C Bond Programs
- Updated Educational Planning Forecasts
- Future Site and Facility Needs

Based on the review and analysis, the college defined its Facilities Master Plan Goals and documented its vision for future development. The recommendations are presented in this 2014 Facilities Master Plan Update.

BACKGROUND

CREATION OF THE ORIGINAL CAMPUS

Foothill College is regarded as one of the most beautiful and successful community colleges in the United States. Founded in 1957, it was the founders' idea to build a community college that would define a new level of quality and innovation within the community college system. They selected a 122-acre site for the permanent campus in the hillside community of Los Altos Hills, California, and commissioned renowned architects Ernest J. Kump of Palo Alto and Masten & Hurd of San Francisco, as well as landscape architects Sasaki, Walker and Associates as the designers. It was their charge to "…convey an atmosphere [that is …] friendly, personalized and informal. Offices of faculty, counselors and administrators must be readily accessible to students." In 1962, Time Magazine said, "Starting from scratch, Calvin C. Flint has already made Foothill a mountaintop among U.S. junior colleges, the fastest growing segment of U.S. Higher Education." The American Institute of Architects gave the campus an Honor Award in 1962 and an Award of Merit in 1963. The campus design was very successful during its first 40 years. In 1980, The campus received a special commendation from the same group for "excellence in design that has stood the test of time."

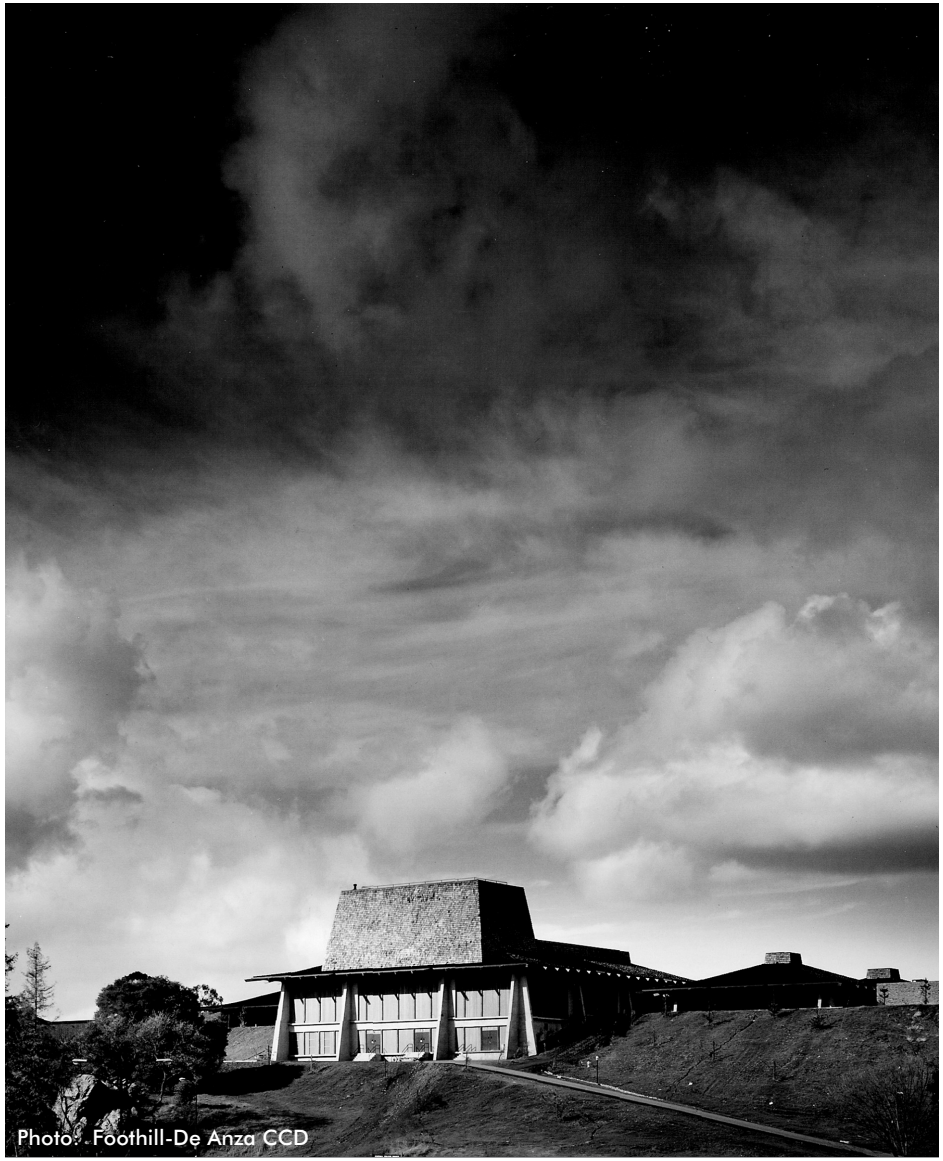

Photo: Foothill-De Anza CCD


Photo: WRNS Studio

In 1984, the college established its Middlefield satellite campus in leased space at the Cubberley Community Center in Palo Alto, California.

CAMPUS RENEWAL FOR THE 21ST CENTURY

In 1999, Foothill College embarked on an important period of renewal, modernization and expansion of its physical environment. In that year, voters approved a $248 million bond (Measure E) to finance construction and maintenance of campus facilities in the Foothill-De Anza Community College District. In 2006, voters approved a $490.8 million bond (Measure C) to improve facilities at both colleges and to acquire property for an education center. Foothill College carefully planned facilities development to support its educational vision and future enrollment by establishing policies for buildings and site improvements, technology and sustainability.

Foothill College has prudently managed these bond funds to modernize and expand its campus environments to support the progress of its educational mission.

INTRODUCTION

The Foothill-De Anza Community College District marked its golden anniversary in 2007, celebrating its first 50 years of excellence, opportunity and innovation in educating a growing and diverse student body.

NEW CAMPUS: FOOTHILL-DE ANZA EDUCATION CENTER

In 2012, the Foothill-De Anza Community College District acquired a site at the former Onizuka Air Force Station to construct a permanent education center as a home for programs from the Middlefield campus, Foothill and De Anza colleges, as well as other community colleges in the area. The leased space at the existing Middlefield campus will be vacated.

Photo: tBP/Architecture

Photo: Ellie Van Houtte

GOALS OF THE 2014 FACILITIES MASTER PLAN UPDATE

Based on the college's educational planning:

- Manage enrollment to focus on growth in online learning opportunities, at the Foothill-De Anza Education Center, and at other off-campus locations.
- Provide modern, flexible facilities to support emerging models of instructional and service delivery.
- Renew the useful life of existing facilities through modernization and renovation to support current and future instruction and support functions.
- Replace portable buildings with permanent space to provide state of the art facilities, and to distribute campus functions in appropriate locations.
- Upgrade and expand infrastructure to support campus development.
- Maintain campus award-winning aesthetics.

- Maintain sustainable landscape through use of drought-tolerant plants utilizing water-wise technology and energy conservation systems.

- Implement design principles that will result in a LEED Gold certification for the education center that will then evolve into teaching and learning strategies for building occupants.

- Use technology as a tool to support equitable learning outcomes across modalities and locations.

- Create learning environments that support student equity strategies.

Photo: WRNS Studio

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EDUCATIONAL PLANNING

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EDUCATIONAL PLANNING

EDUCATIONAL PLANNING DATA

PURPOSE

The educational planning data provide quantified information about students, instructional activities and needs for on-campus space, according to state standards for community colleges. For the purposes of facilities master planning, this information is used to analyze the type and amount of campuswide space that is needed to support future enrollments and programs as envisioned in the college's educational plans. The educational planning data are used, for example, in the district's annual five year capital outlay plans and in establishing parameters for future facilities projects.

The college is currently in the early planning stages for the new Foothill-De Anza Education Center. The new campus will house programs that will be relocated from the Middlefield campus and from the Foothill College main campus.

Photo: Gino de Grandis

BACKGROUND OF THE EDUCATIONAL PLANNING DATA

2011 Foothill College Educational and Strategic Master Plan

The college's Educational and Strategic Master Plan is the foundation of the 2014 Facilities Master Plan Update. The plan identifies a target headcount enrollment for the college of 18,000 students. The 2011 plan and recent, actual data are used by the college to prepare projections of future enrollment and full-time equivalent students (FTES).

EDUCATIONAL STRATEGIC MASTER PLAN INSTITUTIONAL GOALS

Foothill College Core Mission: BASIC SKILLS

- Improve student achievement outcomes for basic skills courses
- Improve student outcomes and close the achievement gap

Foothill College Core Mission: TRANSFER

- Improve student outcomes and close the achievement gap
- Improve student success

Foothill College Core Mission: WORKFORCE

- Improve outcomes of vocational students
- Improve student achievement outcomes

Foothill College Core Mission: STEWARDSHIP OF RESOURCES

- End fiscal years with positive cash balances
- Provide appropriate staffing

State Standards for Community College Space

Title 5 of the California Administrative Code prescribes a set of benchmark standards for the utilization and planning of facilities in public community colleges. For the purposes of master planning, the standards are used to quantify campuswide space needs to support future enrollments and programs as envisioned in the college's educational planning process. The state standards are applied to the college's 2025 enrollment projections in order to forecast the space needs for all types of space at the main campus.

Planning Horizon

In order to quantify the educational program needs and develop recommendations for facilities, the planning team worked closely with college staff to generate the required planning data. The base year is 2013, the most recent year for which actual data are available. The horizon year is 2025. This provides a convenient interval to project future enrollments and program utilization. The quantified information is useful for the planning process and for the development of the recommendations that are described in this Facilities Master Plan Update. It is important to note that the exact year in which a projected student enrollment is met is not critical. It is more important to understand that the projections for student enrollment are master-planned so that when these forecasts are achieved, the college will have the appropriate level of instructional programs, support services, facilities and staffing.

FORECASTS OF ENROLLMENT AND FTES

Levels of enrollment and FTES are forecasted to anticipate future needs for space for the Foothill College campus and the new Foothill-De Anza Education Center.

Assumptions and Methodology

The forecasts of headcount enrollment and FTES are based on the following assumptions:

- With the completion of planned projects, the Foothill College campus will be developed to its maximum capacity, and the existing facilities will be adequate to support future instructional and support programs.
- Enrollment management to focus on growth in online learning opportunities, at the Foothill-De Anza Education Center, and at other off-campus locations.
- The actual FTES data include information collected at the existing Middlefield campus. The projections include Foothill College programs only, and do not include enrollment from other institutions.

The following data sources and methods are the starting points for the forecast.

- 2013 – 2014 total FTES was estimated at P2 at 12,010.
- Off-campus FTES was credited to the main campus for space planning purposes.
- Non-credit FTES was not included in the analysis.
- Total college FTES growth through 2025 will be 1,269 (10.6% of 12,010).
- FTES growth at the education center will be 1,163 (89.5% of 1,300).
- FTES growth at the main campus will be 106 (1% of 10,710).
- Fall 2013 320 Report data was used to determine FTES for laboratory space calculations.
- The ratio of lecture to laboratory FTES will remain unchanged at each campus.

Online Learning Opportunities

Twenty-eight percent (28%) of all Foothill College FTES is generated by courses taught exclusively online, with no on-campus meetings or impact on instructional facilities. The state standards for space do not currently distinguish between online and on-campus classes when calculating allowable academic space at a community college. The college may opt to assign this FTES to either the Foothill College campus or to the education center. This year, the college has opted to shift some of this enrollment to the education center. The educational planning data include this shift.

Actual and Forecast Total FTES at Each Campus

The following table shows actual and forecasted total FTES at each campus.

Foothill College CREDIT - FTES FORECAST			
Campus	**2014**	**2025**	**Change**
Foothill College campus Total	**10,710**	**10,816**	**106**
Education Center Total	**1,300**	**2,463**	**1,163**
GRAND TOTAL	**12,010**	**13,279**	**1,269**

Actual and Forecast FTEF at Each Campus

The state standards for community colleges include values for campuswide office space by full-time equivalent faculty (FTEF).

The following table shows the FTEF data for actual 2013 and the projection for 2025. The base data are from the California Community College Chancellor's Office Data Mart. It is assumed that future FTEF will grow proportionally with FTES at each campus.

Foothill College FULL-TIME EQUIVALENT FACULTY		
Campus	**Actual 2013**	**Forecast 2025**
Foothill College campus	266	268
Education Center	33	63
GRAND TOTAL	299	331

FUTURE SPACE NEEDS

Information about student enrollment and utilization is used in facilities planning to analyze needs for space according to state standards. Space is expressed in assignable square feet (ASF), a measure of usable area.

As mentioned previously, this Facilities Master Plan Update contains calculations of anticipated future space needs for Foothill College and the new Foothill-De Anza Education Center.

Academic Space Needs at Foothill College

The following tables show the space needs for the college as of Fall 2014. The table includes the actual ASF of lecture and laboratory space. It then shows the amount of space the college "should" require as per Title 5 standards. The final column shows the amount of surplus space the campus will have by the year 2025. The college will have more lecture and laboratory space than would be proscribed by Title 5 standards.

ACADEMIC SPACE NEEDS SUMMARY 2025 - Foothill College campus			
	Actual ASF 2013	**Qualifying ASF 2025**	**Space Need/ (Surplus)**
Lecture	**67,313**	**52,497**	**(14,816)**
Laboratory	**118,024**	**108,702**	**(9,322)**

The following table provides the same information for the education center. The "Proposed ASF" on this table is the square footage proposed for the new center. This includes 10 lecture classrooms and 9 laboratories. The "Qualifying" column shows how much space the center will need in each category according to Title 5 standards. This calculation uses the growth forecast discussed on pages 13-14. The final column shows the difference. That is, the amount of additional space that will be needed by 2025 (or when FTES reaches the 2025 growth target).

ACADEMIC SPACE NEEDS SUMMARY 2025 - Education Center			
	New Center Proposed ASF	Qualifying* ASF 2025	Additional Space Needed
Lecture	10,010	11,648	1,638
Laboratory	9,314	28,174	18,860
* *Per Title 5 space standards*			

Office Space Needs at Foothill College

Office space needs are calculated by multiplying the total FTEF by 140. The resulting ASF includes faculty offices, conference rooms and student services space.

The ASF requirements for office space in 2025 are as follows:

Foothill College - OFFICE SPACE NEEDS 2025	
	2025 Forecasted
Foothill College campus	37,545 ASF
Education Center	8,753 ASF
GRAND TOTAL	46,298 ASF

Photo: Bob Swanson Photography

CONCLUSIONS OF THE EDUCATIONAL PLANNING DATA

Foothill College Campus

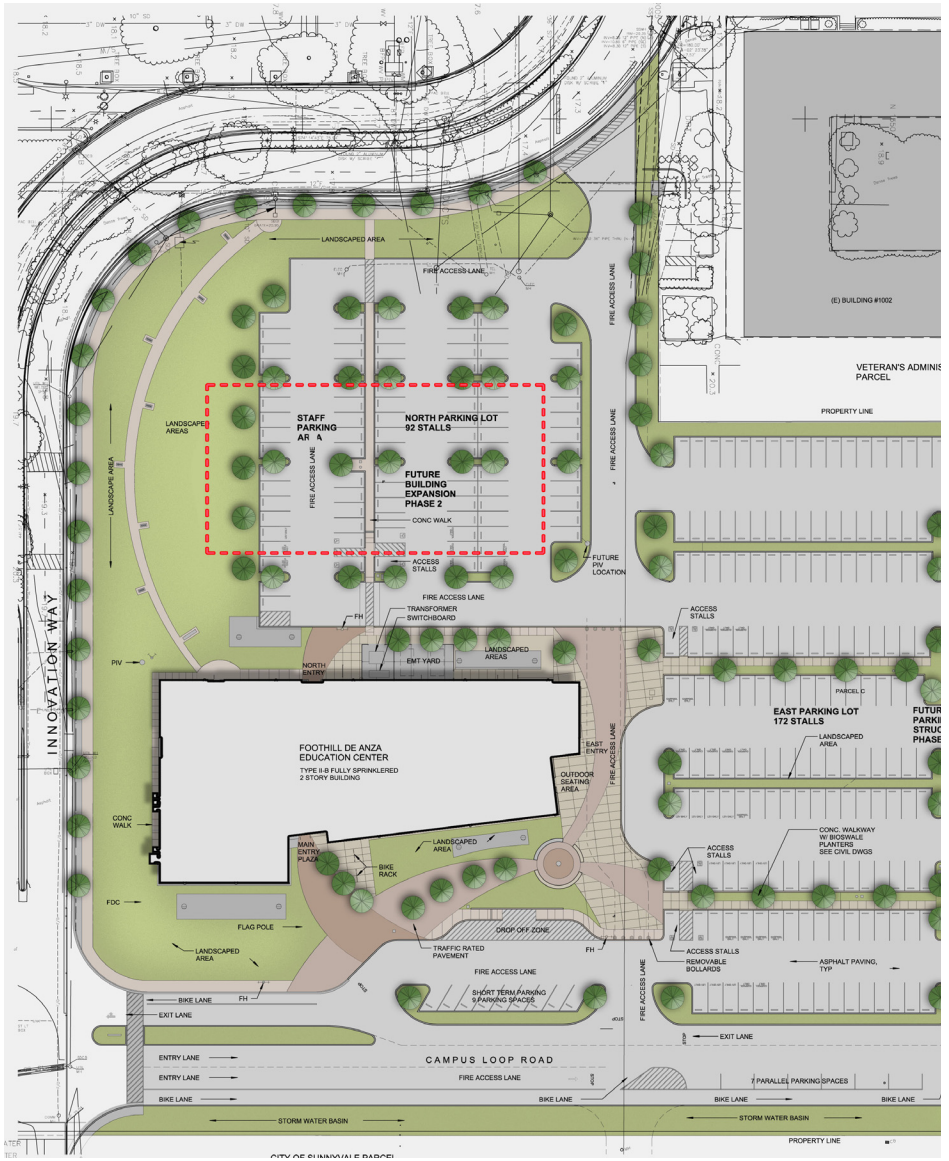
Facilities planning involves the evaluation of "right space, right size" facilities to support the college's educational vision. From a campuswide perspective, the Foothill College campus will be developed to capacity when currently planned projects are complete. The type and amount of facilities space at the campus will be adequate to accommodate the headcount enrollment forecast in this plan.

Future Learning Environments

In the future, the college anticipates an exciting continuation of recent, rapid advances in teaching methodologies and technologies. A new challenge will be to provide flexible learning environments that can easily accommodate the changes. There will be new opportunities to use the state standards to evaluate the meaning of "right space, right size" to use existing and new facilities more efficiently to support programs and control facilities costs.

Foothill-De Anza Education Center

This report contains basic quantified data for Foothill College that will be helpful to the future analysis of educational planning forecasts for space needs at the new Foothill-De Anza Education Center. It is anticipated that students from Foothill College, De Anza College, Mission College and possibly other educational institutions will enroll at the Foothill-De Anza Education Center. Plans for enrollment from outside of Foothill College will provide information for space needs analysis.



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FOOTHILL COLLEGE CAMPUS

EXISTING CONDITIONS AT THE FOOTHILL COLLEGE CAMPUS

This section describes the history and direction of development at the Foothill College campus.

During the period of campus renewal that began in 1999, facilities improvements at the main campus have been planned to support the progress of the college's learning ideals. The college prepared a Facilities Master Plan in 1999, and an update in 2007. The 2014 Facilities Master Plan is an update of previous documents that outlines the big picture ideas for campus development. In addition, the college has also established initiatives for technology and sustainability.


Photo: tBP/Architecture

Photo: Google Maps

PREVIOUS PLANNING FOR CAMPUS RENEWAL

1999 Facilities Master Plan

The challenge of the 1999 Foothill College Master Plan is to accommodate the needs of a growing college while maintaining the original design and architectural integrity of the exceptional Foothill College campus. Goals of the plan include:

- Develop facilities improvements that will enhance the ideals of the original campus design.
- Renovate and modernize aging facilities to meet current codes, support instructional needs and changing technology, and extend the service life of campus resources.
- Activate unused space in existing facilities.
- Construct additional space to support current and future enrollments.
- Remove portables and replace with permanent space.
- Reorganize spaces to cluster related uses.
- Consolidate student services in a one-stop shop at a new front door to the campus.
- Develop support spaces for current and future technology.
- Enhance connections between the campus core and the area to the north of the Loop Road.
- Improve pedestrian and vehicular circulation over the steep topography of the campus.
- Reconfigure the main campus entrance to provide improved access.
- Realign the Loop Road and upgrade pedestrian crossings to alleviate traffic conflicts.
- Provide an information center to direct users and visitors to parking and destinations.
- Increase campus parking to support current and future enrollment.
- Develop usable outdoor spaces for campus events and informal student interaction.
- Enhance passive outdoor spaces that are integral to the culture of Foothill College.
- Develop outdoor spaces to support instructional programs.
- Upgrade and extend infrastructure to support campus development and expansion.
- Upgrade the central plant to support current and future campus development.

1999 PLAN RECOMMENDATIONS

Foothill College | Foothill College Campus

2014 FACILITIES MASTER PLAN UPDATE


Photo: tBP/Architecture

2007 Foothill College Facilities Master Plan Update

The plan addresses the following goals of the college for development of the Foothill College campus.

- Renovate aging facilities to address current educational needs and technological advances.
- Provide additional instructional space for growing programs, including chemistry, physics, nanotechnology, life and health science programs, adaptive learning, and learning communities.
- Ensure the safety of students, faculty and staff through the development of safe and accessible vehicular and pedestrian paths.
- Consolidate related programs into clusters to maximize resources and to provide easier access to students, faculty and staff.
- Enhance the overall appearance of the campus by replacing temporary buildings (portables, modulars, etc.) with permanent facilities.

2007 PLAN RECOMMENDATIONS

Foothill College | Foothill College Campus

2014 FACILITIES MASTER PLAN UPDATE


Photo: tBP/Architecture

2009 Foothill College Site Design Concepts

The site design concepts addressed site and landscape improvements in a holistic way that meshes well with the college's long-term vision and goals toward a more sustainable future. The concept designs sought to bring innovative solutions together with an acute understanding and appreciation of the original qualities and principles of the Foothill College campus. The main goals of this effort were:

- To protect, renew, and enhance the integrity of the original campus
- To program and prioritize the best use of Measure C funding
- To provide appropriate concept designs and standards for future site improvements
- To promote a sense of security through attentiveness to public safety
- To provide code-compliant accessibility between buildings and landscaped areas
- To clarify the separation of the vehicular and pedestrian modes of transit
- To seize opportunities for sustainable design practices where possible

2009 SITE DESIGN CONCEPTS

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HISTORY OF CAMPUS DEVELOPMENT

Original Campus Construction

1960s – Inspired by the Acropolis of Athens, development begins with the construction of the campus core instructional buildings and the physical education complex, connected by a bridge over the campus loop road in the ravine.

1970s – Construction of several small buildings to house support functions.

1980s – Development of the Japanese Cultural Center.

1990s – Small facilities constructed to house support programs.

Photo: Foothill-De Anza CCD

Era of Campus Renewal

2000s – Expansion of the campus on the hillsides created a welcoming new 'face' of the campus at the front door, as well as the new Campus Center, creating convenient new pathways up to the hilltop campus core.

Development included:

- The Lower Campus
- Specialized labs
- Central Plant
- Temporary Village to house swing space and construction support services
- Modernization of most campus buildings
- Removal of several small portable and obsolete facilities, replaced with modern, permanent space.

2010s – Campus expansion to the west, including an extension of campus pathways.

- Athletic Fields
- Physical Sciences and Engineering Center
- Completion of the modernization of older facilities

HISTORY OF CAMPUS DEVELOPMENT

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EXISTING CAMPUS DEVELOPMENT

Photo: tBP/Architecture

EXISTING CAMPUS DEVELOPMENT

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2014 FACILITIES MASTER PLAN UPDATE

PROJECTS COMPLETED SINCE 1999

In general, campus facilities are in suitable condition to support instruction and related programs. Aging buildings have been modernized to support the college's educational vision. New facilities have expanded the campus capacity to accommodate increased enrollment. Site improvements have expanded parking and have enhanced circulation, safety, and significant outdoor spaces.

Photo: Gino de Grandis

Renovations

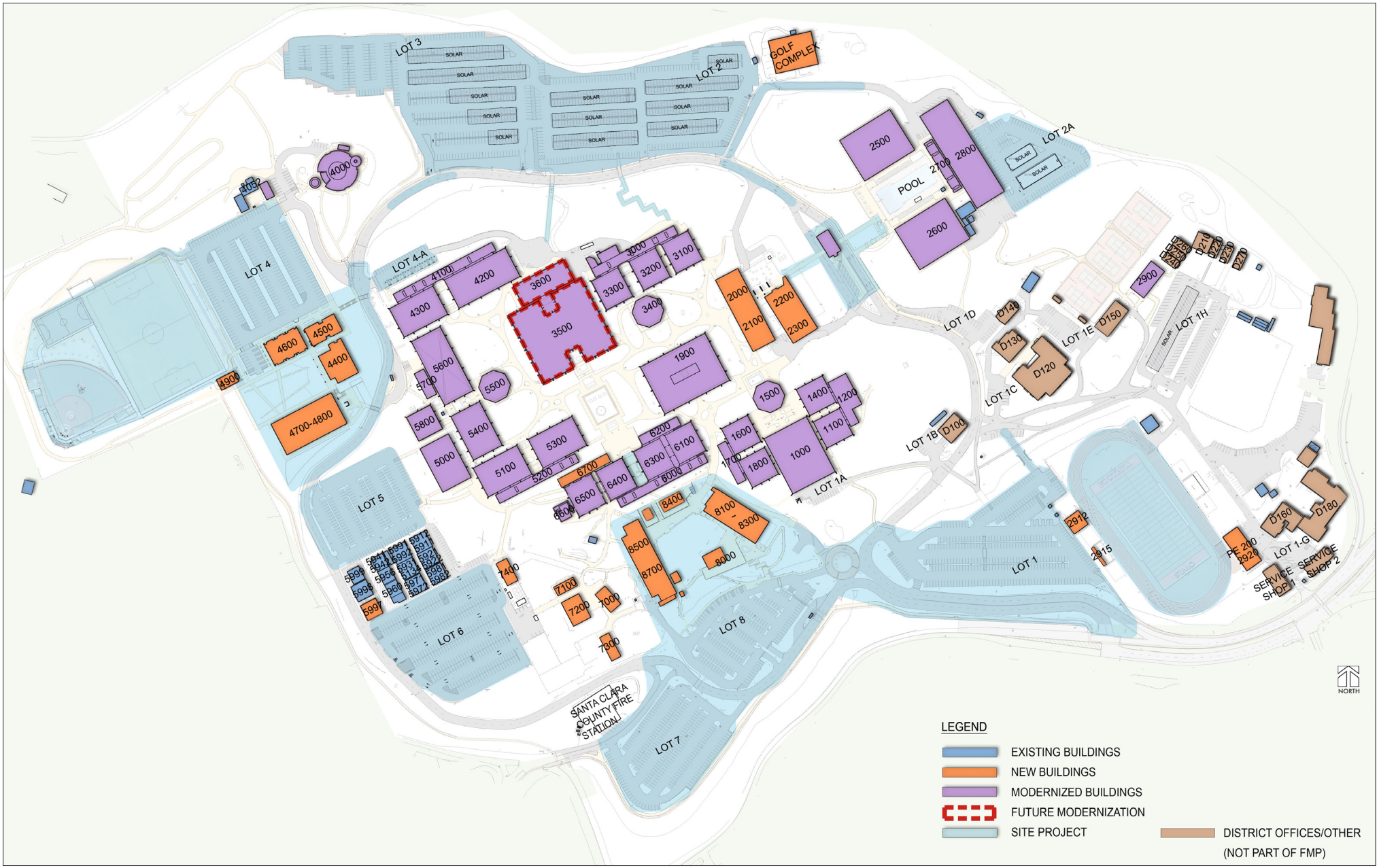
The service lives of 36 campus buildings have been extended with renovations. Upgrades include seismic strengthening, replacement of building systems to increase energy efficiency, ADA compliance for universal access, reorganization of space to cluster related programs, modernized technology, reconfiguration of spaces to support changing instructional methodologies, and refresh of building finishes.

New Construction

More than 157,000 square feet of building space has been added to the campus since 1999. New facilities house flexible classrooms, specialized labs, offices, study space, instructional media and support functions. Major projects include the Campus Center, Lower Campus Complex, Student Services, Lohman Theatre and the Physical Sciences and Engineering Center.

Site Improvements

Major site project accomplishments include a centralized axis through enhanced campus quads and landscaped seating areas, additional athletic fields and new irrigation systems. Infrastructure systems have been upgraded and extended to support campus expansion, along with the new Central Plant.



PROJECTS COMPLETED SINCE 1999

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Photo: tBP/Architecture

EXISTING ZONING

Since 1999 campus functions have been successfully reorganized in existing and new facilities to create clusters of related uses, and a convenient flow for pedestrian traffic.

- Instructional functions are located inside the Loop Road, and on the west side of the campus.
- Athletics and physical education facilities, including buildings, pool, courts and football stadium are located on the east side of the campus.
- Administration functions are centralized at the campus core.
- Student services are conveniently located at the hillside edges of the campus core. Buildings are developed with pathways and stairs that provide convenient gateways from down-slope parking to the hilltop core.
- The FHDA District Offices are currently in temporary space but slated to be relocated to newly constructed facilities within the next few years.

EXISTING CAMPUS ZONING

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EXISTING CIRCULATION

The college has made many circulation improvements to create more convenient access and wayfinding throughout the campus. Accomplishments include:

Gateways

- The main vehicular campus gateway has been reconstructed to provide more convenient access and direction to destinations.
- Welcoming entrances have been developed between parking areas and the campus core.

Photo: WRNS Studio

Roadways

- Intersections and pedestrian crossings have been reconfigured to minimize traffic conflicts.
- Prominent crosswalks link the west area to the campus core.

Pedestrian Pathways

Developed buildings on hillsides to provide easy access between topographical levels. Pedestrian pathways all renovated to meet ADA compliance.

Hillside Routes

Steep portions of pathways and roadways have been regraded.

Bike Path

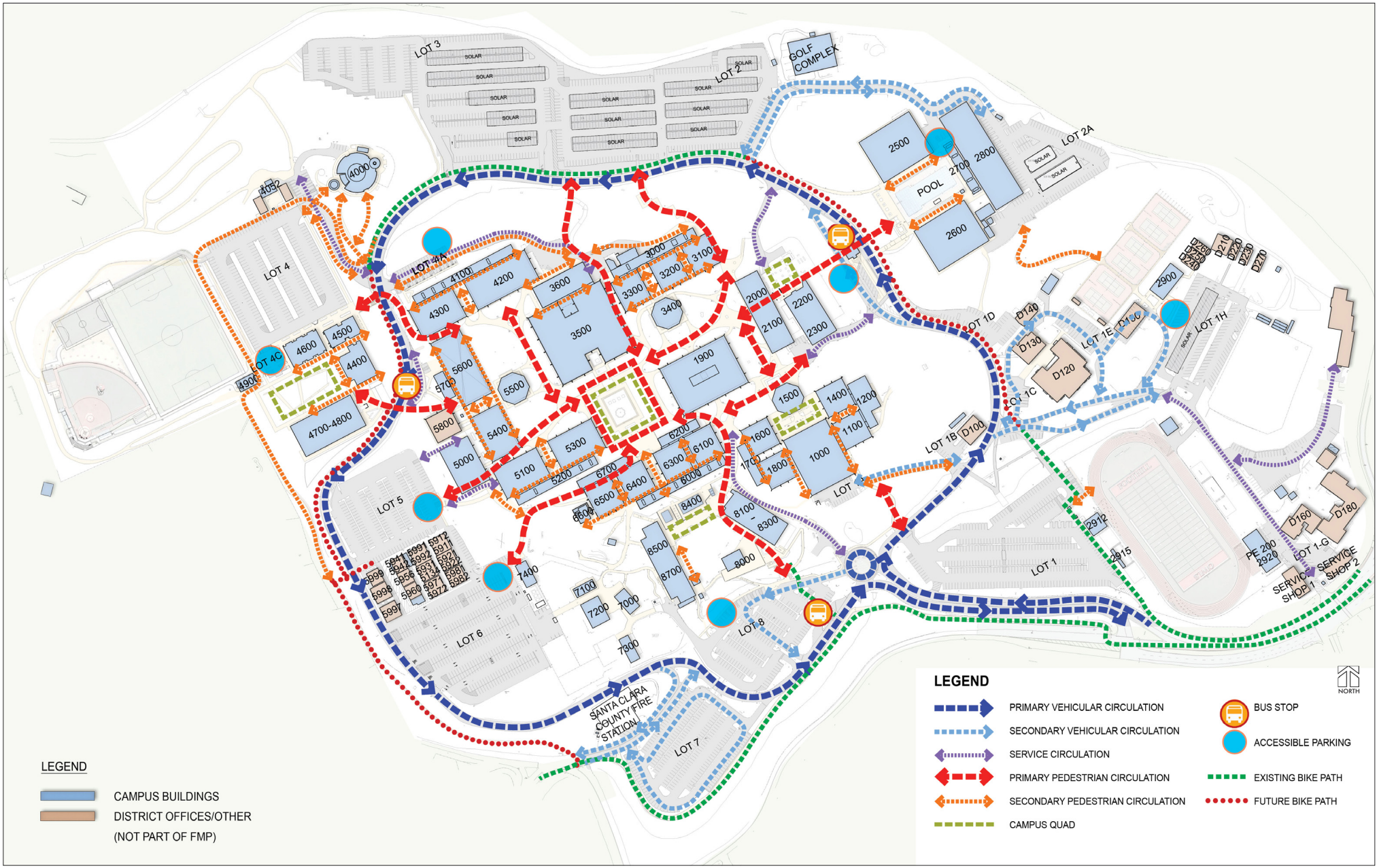
When complete, the new bike path will make a complete loop around the campus.

Parking

Parking has been expanded throughout the campus. Accessible parking has been positioned in flat lots adjacent to the college hilltop.

Transit

More transit stops have been developed at convenient access points to the campus core.



EXISTING VEHICULAR & PEDESTRIAN CIRCULATION

Foothill College | Foothill College Campus

2014 FACILITIES MASTER PLAN UPDATE


Photo: Gino de Grandis

TECHNOLOGY

Foothill College Technology Master Plan, 2010–2015, Updated 2014

Foothill College begins its technology plan with the following vision and goals for 2010–2015. Understanding that this plan is intended to provide a general framework for defining institutional planning and organization around technology, we seek outcomes that improve student learning and improve our overall college operations. Through the processes and activities outlined in this plan, we seek to accomplish the following goals in the next five years:

- Deploy technology to create a more dynamic learning environment;
- Meet students' expectations for access to informational resources, the Internet and support for computing devices;
- Provide high-quality learning environments supported by technology;
- Offer the highest quality online learning tools/systems for students and faculty;
- Ensure all students have access to technology to provide student equity in the learning environment.

Important technology accomplishments include secured and improved wireless network that serves the entire campus, and new technology in classrooms and labs to support modern instructional methodologies.

Photo: Marc Knobel

Photo: Gino de Grandis

Photo: David Wakely

SUSTAINABILITY

2008 Foothill College Sustainability Management Plan

The Foothill Sustainability Management Plan (SMP) addresses the charter and mission of the sustainability committee and forms a foundation for our areas of focus, developing goals, metrics, data collection procedures, analysis and reporting functions. The proposed actions identified in the SMP will require the involvement of many members of the college community to support activities that promote environmental stewardship, fiduciary responsibility and community engagement. Goals of the SMP include:

- Community & Civic Engagement
- Hazardous & Solid Waste Reduction & Control
- Transportation, Energy Conservation, Efficiency & CO^2 Reduction
- Water Use Reduction & Control
- Green Procurement – Sustainable Product Use
- LEED Certification of Buildings
- Green Building Design, Construction & Renovation
- Improved Measurement & Verification
- Monitoring & Managing Energy Trends
- Virtual Labs

The Foothill College Center for a Sustainable Future is described on the college website: http://www.foothill.edu/sustainability/.

Materials

- Green Procurement
- Waste Reduction

Greenhouse Gas Reduction

- Online learning as an alternative to driving
- Enhanced public transit stops on the Loop Road
- Completion of a continuous bike path around campus
- Raised student awareness through curriculum
- Eco Pass program
- Ride sharing portal with more than 3,000 users
- Future electrical vehicle (EV) charging stations

Living Gardens

- Used as a teaching classroom for anthropology, biology, horticulture, business and workforce. Horticulture area demonstrates rainwater harvesting and green roof concepts
- Indigenous drought tolerant plantings

Energy Production and Efficiency

- Cogeneration of heat and power
- Solar panels
- One Million Kilowatt Hour Challenge

SUSTAINABILITY

Foothill College | Foothill College Campus
2014 FACILITIES MASTER PLAN UPDATE


Photo: WRNS Studio

MASTER PLAN RECOMMENDATIONS FOR FOOTHILL COLLEGE CAMPUS

The college has determined that the Foothill College campus has been developed to the limits of its desirable carrying capacity. With the completion of recommended projects, campus facilities will be modern and in good condition. The period of renewal and expansion from 1999 to today will have successfully produced a campus that is modern and well-positioned to support the college's educational vision.

The college now looks forward to achieving new levels of educational excellence, especially in the areas of 21st century educational environments, technology, and sustainability. Campus facilities must continue to evolve to support the progress of the college.

FACILITIES MASTER PLAN RECOMMENDATIONS

Renovations

Complete planned renovations of existing buildings to improve energy efficiency, create modern learning environments, upgrade technology and refresh finishes. The 3500 Library and ISC renovation will modernize the facility to create a Teaching and Learning Center that will support the study and learning requirements of the 21st century.

RECOMMENDATIONS

Foothill College | Foothill College Campus
2014 FACILITIES MASTER PLAN UPDATE

Future Construction

- Provide a theatrical scene shop to support the performing arts program
- Provide support buildings for campus programs
- Print Shop/Plant Services Yard

Remove Modulars

- Remove the Temporary Village to expand parking in Lot 5

Landscape and Site Design

- Complete the implementation of the site design concepts
- Replace aging trees
- Refresh existing athletic fields, equipment and provide needed support facilities
- Build one additional lath house to support the environmental horticulture and design program

Sustainability

- Implement planned living labs
- Provide electric vehicle charging stations in Lots 4C and 6
- Complete the bike path
- Install new photovoltaics at PSEC and Lot 4

RECOMMENDATIONS: 21ST CENTURY LEARNING ENVIRONMENTS

Flexible Spaces

With advances in learning technology and teaching methods, new opportunities are increasingly available to use each space in multiple ways. The space needs projection indicates that there will be more than enough space on campus to support future instruction. It is recommended that instructional spaces should be designed to support a multitude of educational activities and to maximize the utilization of existing space.

Celebrate the Campus as a Living Lab

The Foothill College campus has a rich environment of outdoor areas that could be utilized to support instructional programs such as biology, horticulture, engineering and physical sciences. The college has identified many sites that could be designated as a living laboratory for active and passive uses, including observation, research and special projects. The biology department has already gathered significant data about the resources, and the first site has been designated. The idea has the potential to benefit not only students in specific instructional programs, but the entire college community. The college will proceed with thorough analysis of the proposal.

Encourage Experimentation in Learning Methods and Technology

The 2014 Technology Master Plan provides excellent design standards for instructional spaces and the college is active in its experimentation with evolving learning methodologies and technologies. These initiatives need facilities that can be equipped and reconfigured as needed. Ideas include a video/lecture capture classroom, an experimental teaching space, technology-enhanced instruction techniques, two-way videoconferencing, and more. As the space needs analysis shows, there is sufficient instructional space on the campus to use existing facilities as experimental sites. It is recommended that the college should designate existing space for these uses.


Photo: Gino de Grandis

Support Technology Use by the Campus Community

Almost everyone on the campus uses mobile devices for learning, work and social purposes. The college recognizes changing needs of students and staff and strongly advocates for the use of technology connectivity and engagement.

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FOOTHILL-DE ANZA EDUCATION CENTER

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FOOTHILL-DE ANZA EDUCATION CENTER

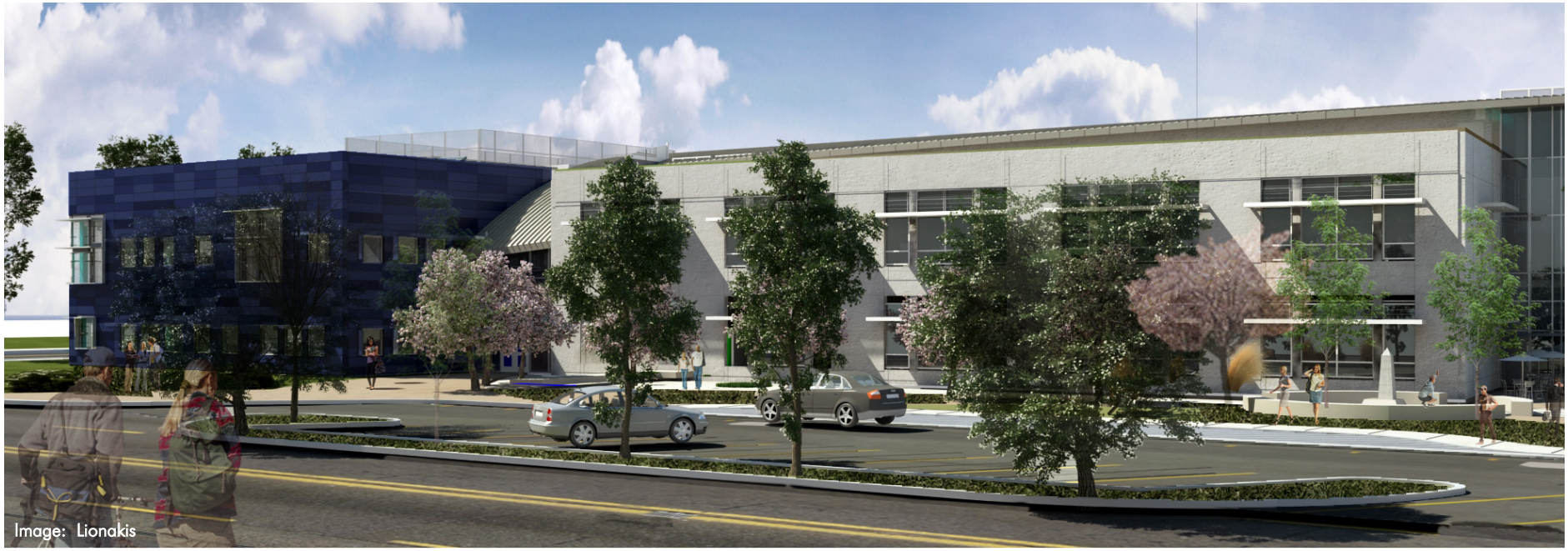


Image: Lionakis

MISSION STATEMENT

VISION

The Foothill-De Anza Education Center will be a regional state-of-the-art facility that equips people from diverse backgrounds with skills to close the growing achievement gap in Silicon Valley.

MISSION

The Foothill-De Anza Education Center provides programs with pathways to careers, training and education that meet the needs of employers, incumbent workers and future employees, partnerships that seamlessly transition individuals from high school to community college to the university and the workplace, and opportunities for the community to participate in academic and personal enrichment activities.

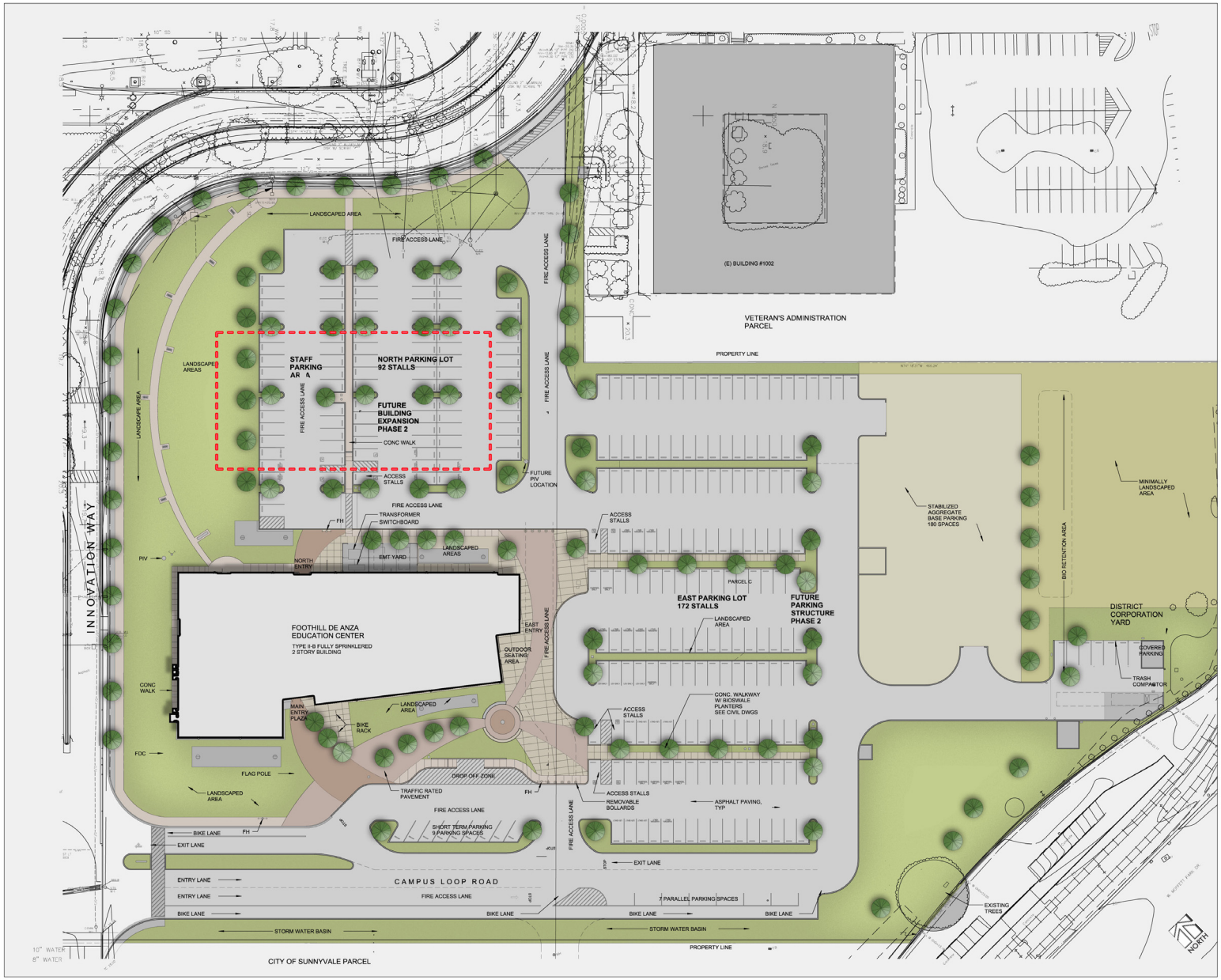

Image: Lionakis

EDUCATION CENTER GOALS

- Reflect sustainability in the programming and building design of the education center
- Establish an education center that provides a sustainable and flexible learning environment
- Meet student needs for university transfer, workforce and basic skills classes
- Provide training and education for incumbent workers based on both employee and employer criteria

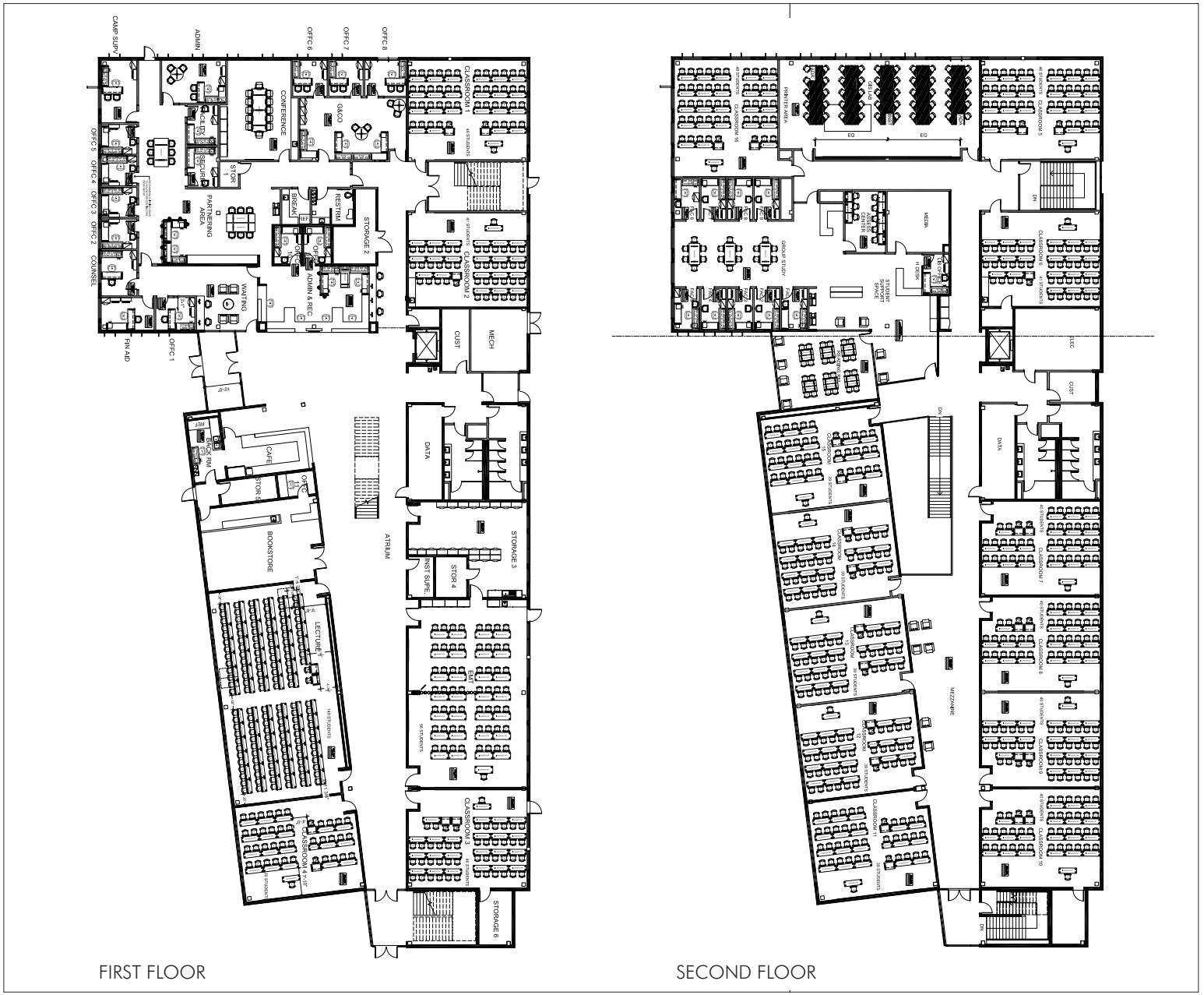
Access and opportunity for all students through innovative student services

- Encouragement, guidance and support to students from Foothill, De Anza and Mission colleges
- Innovative, collaborative support services that bring together students, staff and faculty from Foothill, De Anza and Mission colleges



SITE PLAN

Foothill College | Foothill-De Anza Education Center
2014 Facilities Master Plan Update



FLOOR PLANS

Foothill College | Foothill-De Anza Education Center

2014 Facilities Master Plan Update

APPENDIX

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List of Measure E/C Projects

Project #	Department	Bldg No.	Program	Built in	Type Const	Measure	Cost	Completion Date
120	FAC	1000	Smithwick Theatre	1961	R	C	$4,712,217	Jul-12
115	FAC		Fine Arts Scene Shop		F		$1,728,567	
104 119	FAC	1100	Music Studio	1961	R	E	P1: $1,243,546 P2: $3,047,546	
104 119	FAC	1200	IDEA/Lab & Practice	1961	R	E	see 1100	
149	FAC	1300	Choral Rehearsal Hall		D		$150,002	Aug-09
104 119	FAC	1400	Choral & Piano/ Studio Theater	1961	R	E	see 1100	
104 119	FAC	1500	Appreciation Hall	1961	R	E	see 1100	
104 119	FAC	1600	Art Classrooms	1961	R	E	see 1100	
104 119	FAC	1700	Fine Arts Division	1961	R	E	see 1100	
104 119	FAC	1800	Ceramics & Graphic	1961	R	E	see 1100	
112		1900	Administration	1961	R	C	$7,132,515	Jun-01
153		2000	Campus Center	2007	N	E	$28,981,723	Aug-07
153		2100	Campus Center	2007	N	E	see 2000	Aug-07
153		2200	Campus Center: Food Services, Dining Rm	2007	N	E	see 2000	Aug-07
153		2300	Campus Center: Bookstore, Hearthside Lounge	2007	N	E	see 2000	Aug-07
115	KA	2500	Auxilary Gym	1961	R	E	$5,254,133	Jun-14
115	KA	2600	Main Gym	1961	R	E	See 2500	Jun-14
	KA	2602	PE Snack Bar & Storage	1972				
115	KA	2700	PE Division Offices	1961	R	E	See 2500	Jul-05

List of Measure E/C Projects

Project #	Department	Bldg No.	Program	Built in	Type Const	Measure	Cost	Completion Date
155	KA	2800	Locker Rooms	1961	R	E	See 2500	Jul-05
	KA	2806	Pool Storage	1961				
109	KA	2900	PE Lab Space/ Field House	1972	R	C	$1,550,179	Jan-11
	KA	2911	Stadium Snack Bar	1972				
146	KA	2912	Stadium Restrooms	2006	N	E	$3,279,778	Sep-06
113	KA	2915	Pressbox & Bleachers	2012	N	C	$1,816,465	Aug-12
146	KA	2920	Field House	2006	N	E	see 2912	Sep-06
120	KA		Stadium and Athletic Fields		R	E	$3,699,827	Dec-05
	KA		Golf Complex					
142			Soccer & Softball Complex	2011	N	C	$4,077,771	Jun-11
142	BSS	3000	BSS Division	1961	R	E	$4,313,624	Jun-03
		3030	Grounds & Cust	1972				
109	BSS	3100	Anthropology	1961	R	E	$1,671,014	
109	BSS	3200	BSS Classroom: Business	1961	R	E	see 3100	
109	BSS	3300	BSS Classroom: Social Sci	1961	R	E	see 3100	
109	BSS	3400	BSS Classrooms: Social Sci	1961	R	E	see 3100	
121	LMT	3500 3600	Library, Media Center, Turorial Center/ ISC	1961	R	C	$9,368,185	May-16
101		4000	Krause Center for Innovation	1969	R	E	$4,491,057	Mar-02
		4001	Observatory	1969				Mar-02
		4050	STEP 2	1992				
		4052	Print Shop					
		4057	STEP 1					
173			Print Shop & Plant services Complex	1991	F			
142	STEM	4100	CTIS & PSME Division	1961	R	E	see 3000	Jun-03
113	STEM	4200	PSME Center/ Engineering	1961	R	E	$1,930,139	Jul-05
113	STEM	4300	Engineering Classroom	1961	R	E	See 4200	Jul-05

Project #	Department	Bldg No.	Program	Built in	Type Const	Measure	Cost	Completion Date
160	PSEC	4400 - 4800	Physical Sciences & Engineering Center	2013	N	C	$58,315,002	Jan-13
101		5000	Forum Classroom	1965	R	C	$3,912,855	Jul-09
105	BHS	5100	Biology	1961	R	C	see 5600	Jul-14
	BHS	5200	BHS Division	1961	R	E	see 3000	Jun-03
153	BHS	5300	Health Technologies: Dental/ Radiology	1961	R	E	SEE 6100	Jul-14
105	PSME	5400	DRC/ Workforce/ VRC	1961	R	C	see 5600	Jul-14
	PSME	5500	PSME General Classrooms	1961	R			Apr-11
105	PSME	5600	General Classroom	1961	R	C	$14,965,944	Jul-14
105 106	PSME	5700	Classroom/ Radio Station	1971	R	C	$816,568	Jul-14
		5710	Disability Res Lab	2000	D	C		2014
105		5800	FH ETS Tech Service	1961	R	C	see 5600	Jul-14
140		5900	Temporary Village/ International Students and Adaptive Learning	2000	N	E	$2,016,275	2000
		5905	Offices	2000	N	E		2000
111		5910	Swing Space	2000	N	E	$1,558,216	2000
111		5997	Disability Resource Center	2000	N	E	see 5910	2000
142	LA	6000	LA faculty Offices	1961	R	E	see 3000	Jun-03
133	LA	6100	Photography	1961	R	E	$2,774,134	Sep-06
148	LA	6200	LA Office/ Radio Station	1961	R	E	$195,828	Mar-01
110	LA	6300 & 6500	LA Classroom	1961	R	E	$3,064,580	Mar-01
	LA	6400	LA Division & Classroom	1961	R			Jun-11
116	JCC	6600	Japanese Cultural Center	1981	R	C	$120,234	Jan-13
	BHS	6700	Health Technologies	2003	R	E	see 3000	Jun-03

List of Measure E/C Projects

Project #	Department	Bldg No.	Program	Built in	Type Const	Measure	Cost	Completion Date
	EHVT	7000	Landscape Construction	2008	N			2008
	EHVT	7100	Green House	2008	N			2008
147	EHVT	7200	Lath House	2008	N	C	$182,567	2008
			Lath House #2		F			
	EHVT	7300	Vet Tech Out Bldg	2008	N			2008
171		7400	Lower Campus Central Plant	2008	N	E	$5,359,885	2008
152		8000 - 8300	Lohman Theatre & Student Services	2008	N	E	$63,754,880	2008
152		8400	Lower Campus Classrooms	2008	N	E	see 8000	2008
152	BHS	8500 8700	Lower Campus Life Sciences	2008	N	E	see 8000	2008
144	Site		Central Campus Site Improv		R	C	$7,812,692	Jun-13
117	Site		Footbridge and Transit Ctr	1961	R		$253,693	
154	Site		PV Arrays		N		$11,807,335	Dec-10
162	Site		Parking & Circ		R	C	$10,140,133	Jan-14
162	Site		New Parking Structure		F		$3,762,940	
	Site		Practice Fields		F			
	Site		Bike Loop					
170	Site		Parking Lot 2a		R	E	$598,207	Jan-05
134	Site		Parking Lot 1 & 7		R	E	$2,600,025	Oct-04
135	Site		Parking Lot 2 & 3		R	E	$1,569,087	Sep-02