



Campus Core Study
University of California Davis

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The exhibits include the plan illustrative and an enlarged plan, the goals, and a series of diagrams defining the structure of the campus. There are three types of diagrams: campus emblems reveal the existing framework elements of the campus; strategy diagrams represent the goals for the plan; and the technical diagrams record the approach for implementation.

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Introduction

The Campus Core study identifies and guides new campus development to provide additional capacity for educational facilities within the campus core, in a manner that contributes to campus's character and function.

The study focuses on the educational facilities within the 500-acre campus core, broadly defined by Old/New Davis Road (south), Russell Boulevard (north), A Street (east), and La Rue Road (west). The study quantifies the "supply side" of campus development potential, identifying the extent and density of the new construction opportunities to address the increased facility need for the next decade. The University will use this information to guide the "demand" side for instructional and research program growth.

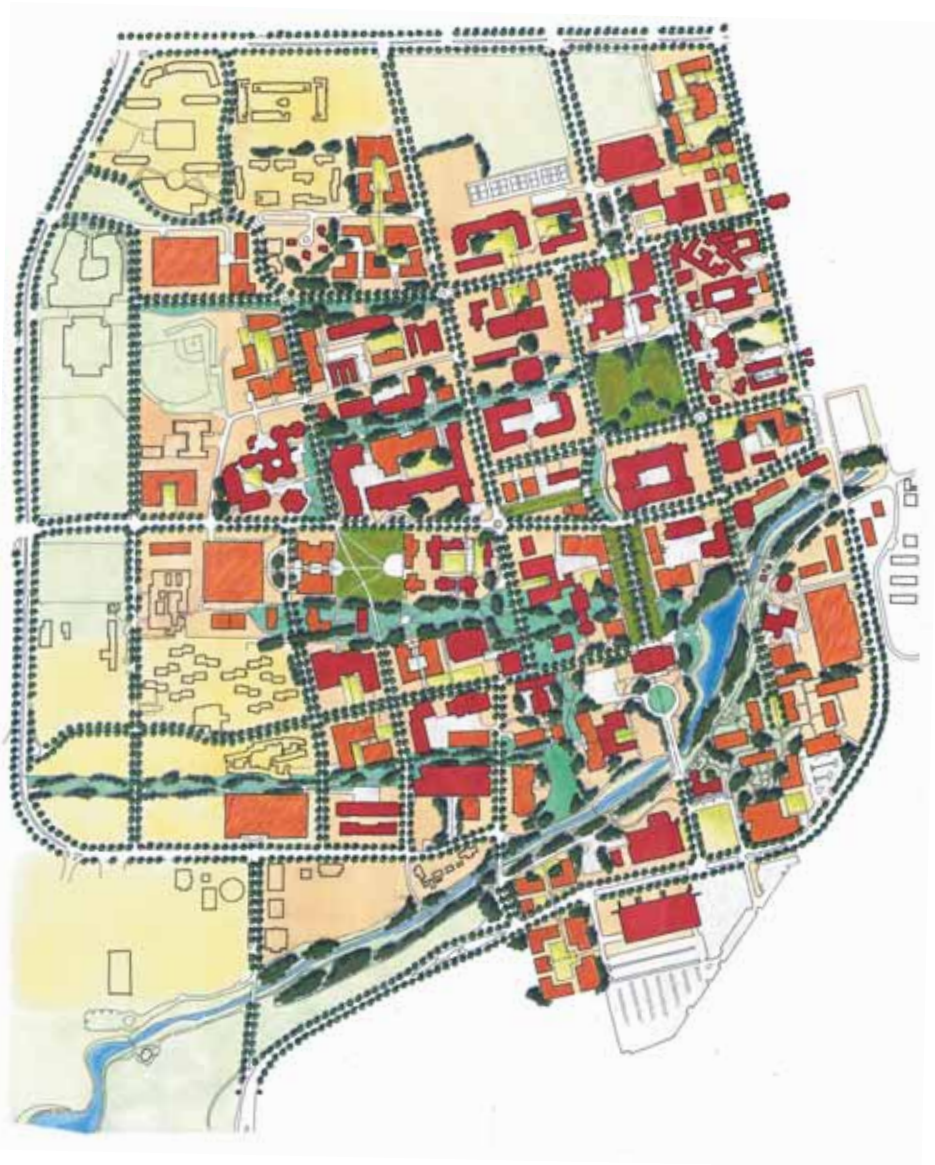
The plan guides new construction to improve the quality of life on campus, defining the campus's civic structure, open space framework, and circulation network.

1

Campus Core Illustrative

The Illustrative Plan depicts the plan for the Campus Core study. New building footprints and district greens express the intent of the campus core fabric interlaced with a carefully defined network of Bicycle Boulevards and Garden Walks. Campus greens, including the existing Quad, form the nucleus of the campus core center.

The buildings are shown in two tones – the deep-red tone indicates existing buildings to remain in the near-term and the orange tone indicates future new buildings constructed to meet facility demand. Tree-lined corridors define the Bicycle Boulevards while the bright green ground plane identifies Garden Walks. The areas at the edges of the plan treated with gold and green washes are athletic, recreational and residential uses that support the educational campus core.



Illustrative Plan
UC Davis Campus Core Study

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The Plan Enlargement

The enlargement provides a glimpse into the southern portion of the campus center. The Silo complex **(1)** and a new Library **(2)** frame a new campus community quadrangle. South of the Silo complex, a Garden Walk **(3)** links the campus center with the Arboretum. Bicycle Boulevards **(4)**, framed by street trees, provide north-south and east-west circulation access throughout the campus core. Adjacent courtyards and greens complement existing facilities (in red) and new facilities (in orange). These open space elements contribute to the campus open space system, providing character and a means of circulation for the campus.



Keymap



Plan Enlargement UC Davis Campus Core Study

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3

Goals

The following goals embody the broad physical objectives for the future of the campus core.

Extend physical connections beyond the Campus Core to the:

City of Davis
Campus Health Science Center



Reinforce and extend the campus's identity through the use of existing campus emblems:

The Quad
Tree-lined streets
The Arboretum
Student centers
City and agricultural grids



Plan future buildings to reinforce the open space framework and improve the campus fabric



Enrich the quality of campus life through a hierarchy of campus open spaces:

Landmark quadrangles for civic structure
The Arboretum landscape as a regional amenity
Bicycle Boulevards and Garden Walks as links
Web of small greens for building clusters



Form an expanded campus center to serve and connect the academic precincts through the:

Siting of civic campus buildings such as
libraries and student centers
Creation of significant campus open spaces
to serve as a focus of campus life



Balance and clarify the bicycle and pedestrian circulation system by developing:

Bicycle Boulevards
Garden Walks

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Campus Emblems

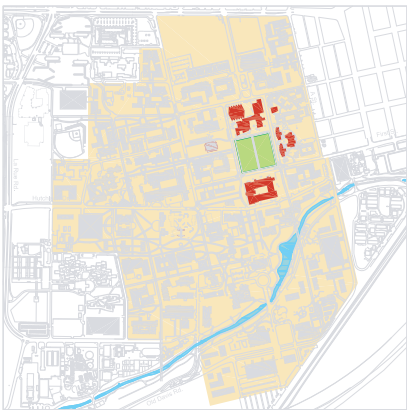
The campus emblems are the landmark “found objects” that form the character of the existing campus core. These landmarks record the current image of the campus and reflect the physical and cultural history of its use. The Quad, the campus central green, embodies the sectional grid - a remnant of the past agricultural use - and the original nucleus of campus core.

The generous landscape of tree-lined streets reflect an agricultural theme and rural setting. The Arboretum, oriented around a natural land feature, portrays the study of plant material. The student centers were sited within and adjacent to agricultural uses (the Silo and the Quad). The overlapping of the city and agricultural grids is apparent in the grid shift and differing scales.



ARBORETUM

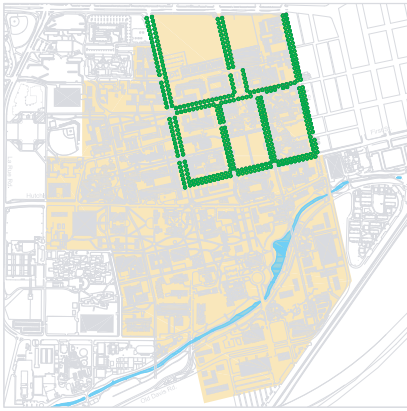
- Historic creek bed
- Educational & recreational resource
- Informal character contrasts with grid



CIVIC BUILDINGS & CIVIC SPACES

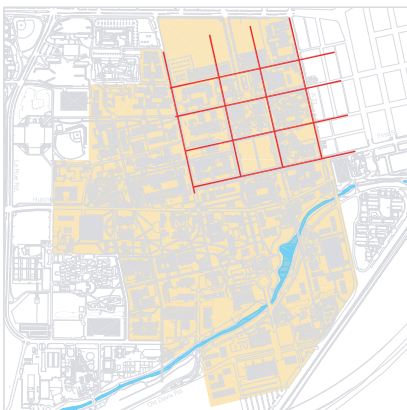
- The Quad is 5 acres
- Campus green at center
- Central library with student activities on edges





BICYCLE BOULEVARDS

- Bicycle is a campus icon
- Visual connectors
- Extension of city grid
- Tree-lined canopy



CITY GRID

- Aligns with railroad
- Strong city & campus connections
- Organizer of buildings & open spaces
- Finer scale than agricultural grid





HISTORIC SHINGLE BUILDINGS

- Original campus buildings
- Associated with campus greens
- Student activity centers
- Counterpoint to taller buildings



GREEN EDGES/ COMMUNITY INTERFACE

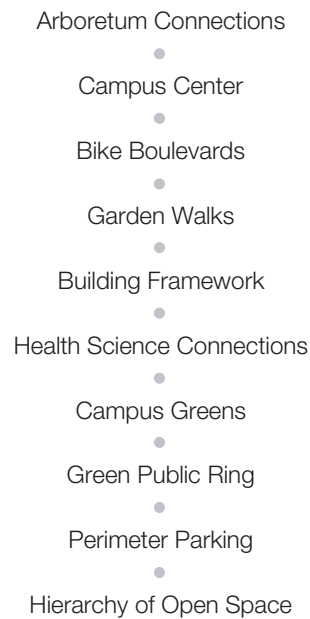
- Open to community
- Not 'walled-off'
- Park-like image

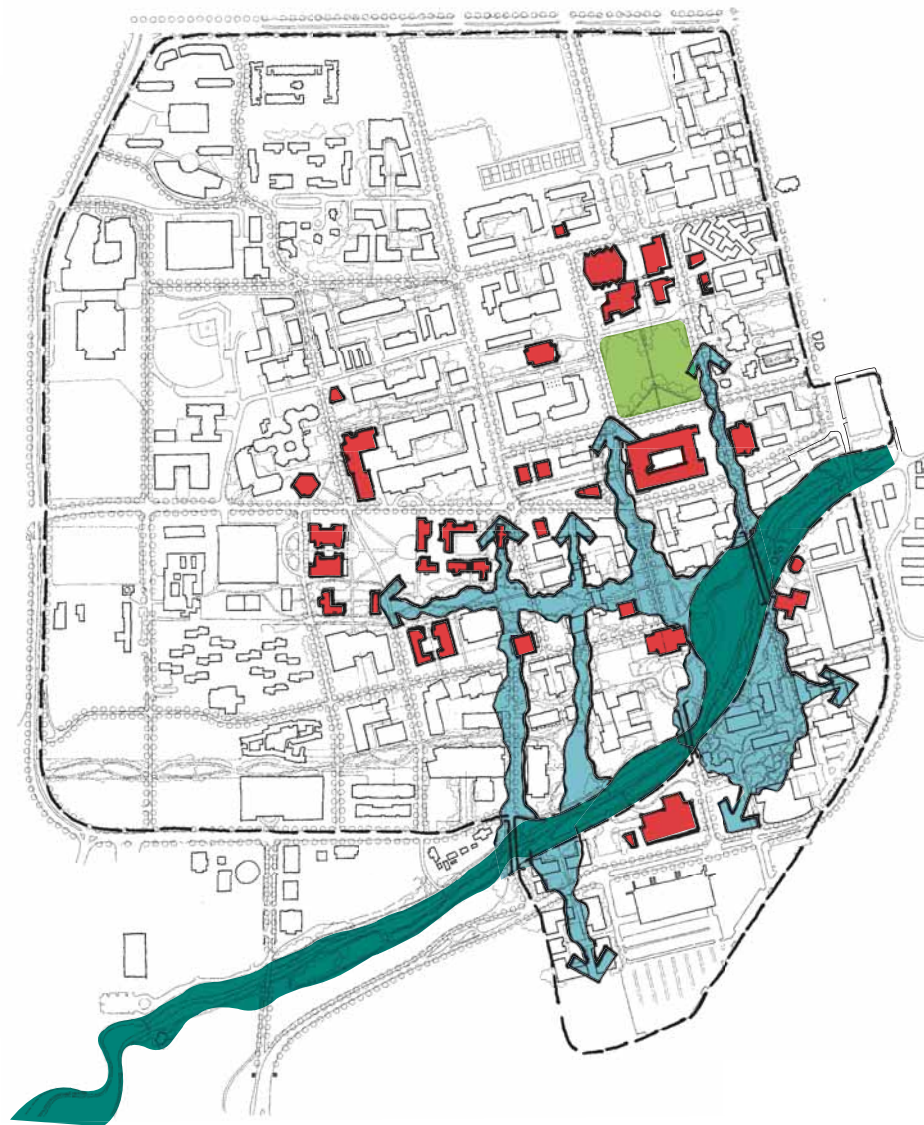


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Strategy Diagrams

The strategy diagrams are conceptual physical expressions of the campus goals. The strategies build upon the campus emblems; enhancing the campus core through an expanded network of campus buildings, open space, and circulation networks.

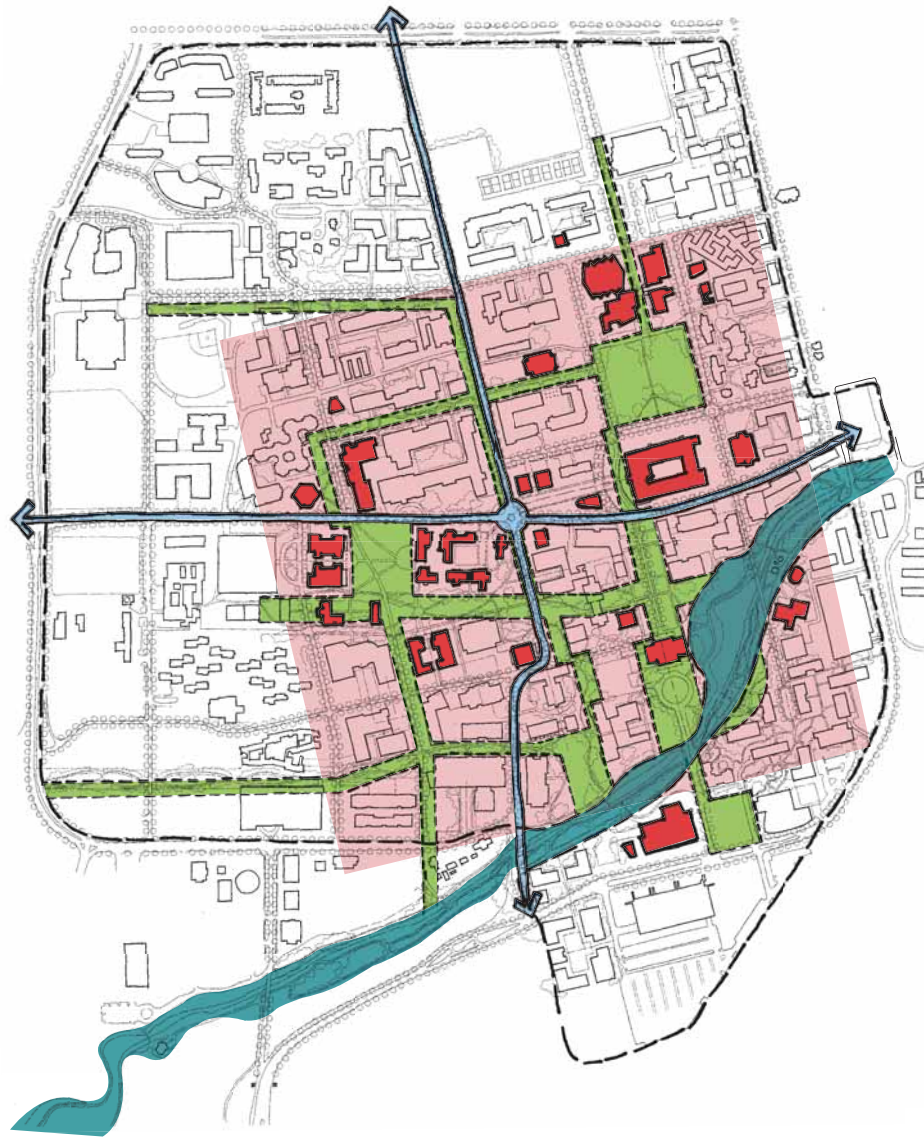




Arboretum Connections **UC Davis Campus Core Study**

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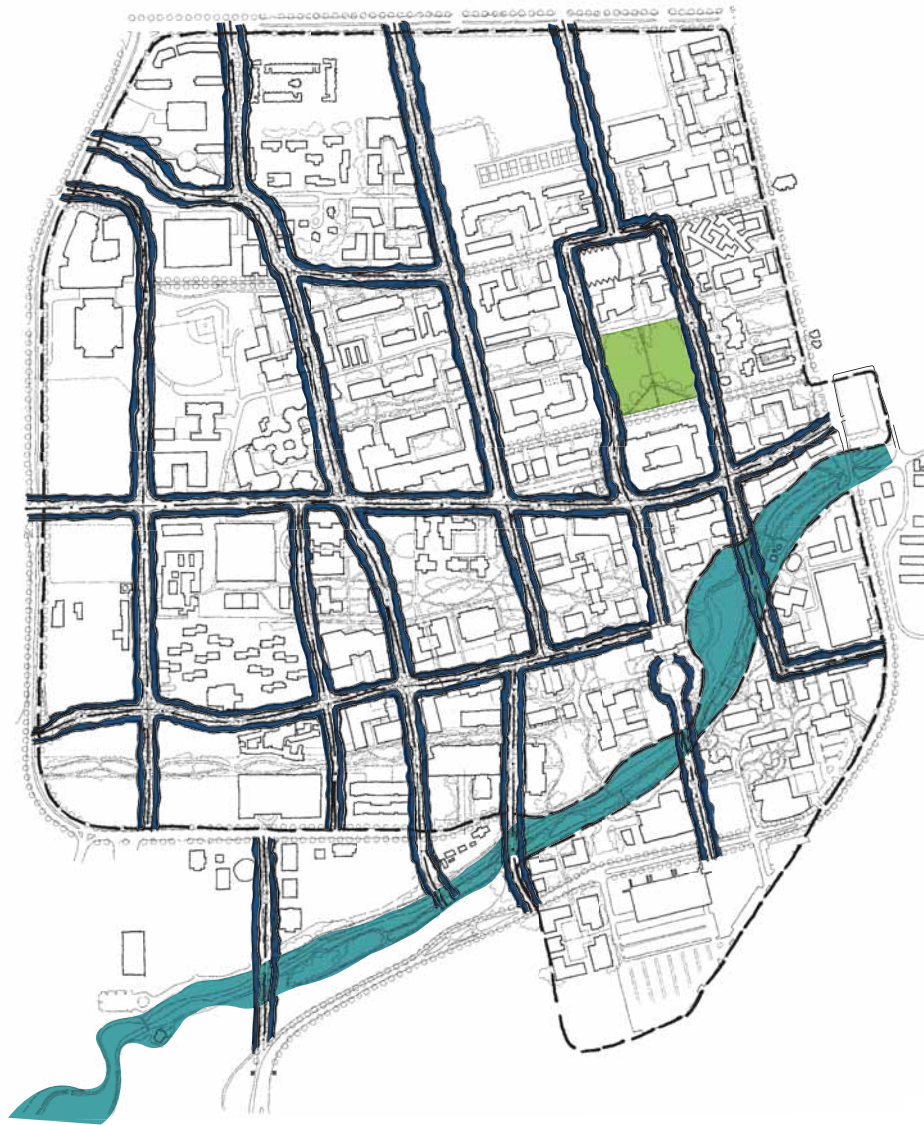
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Campus Center
 UC Davis Campus Core Study

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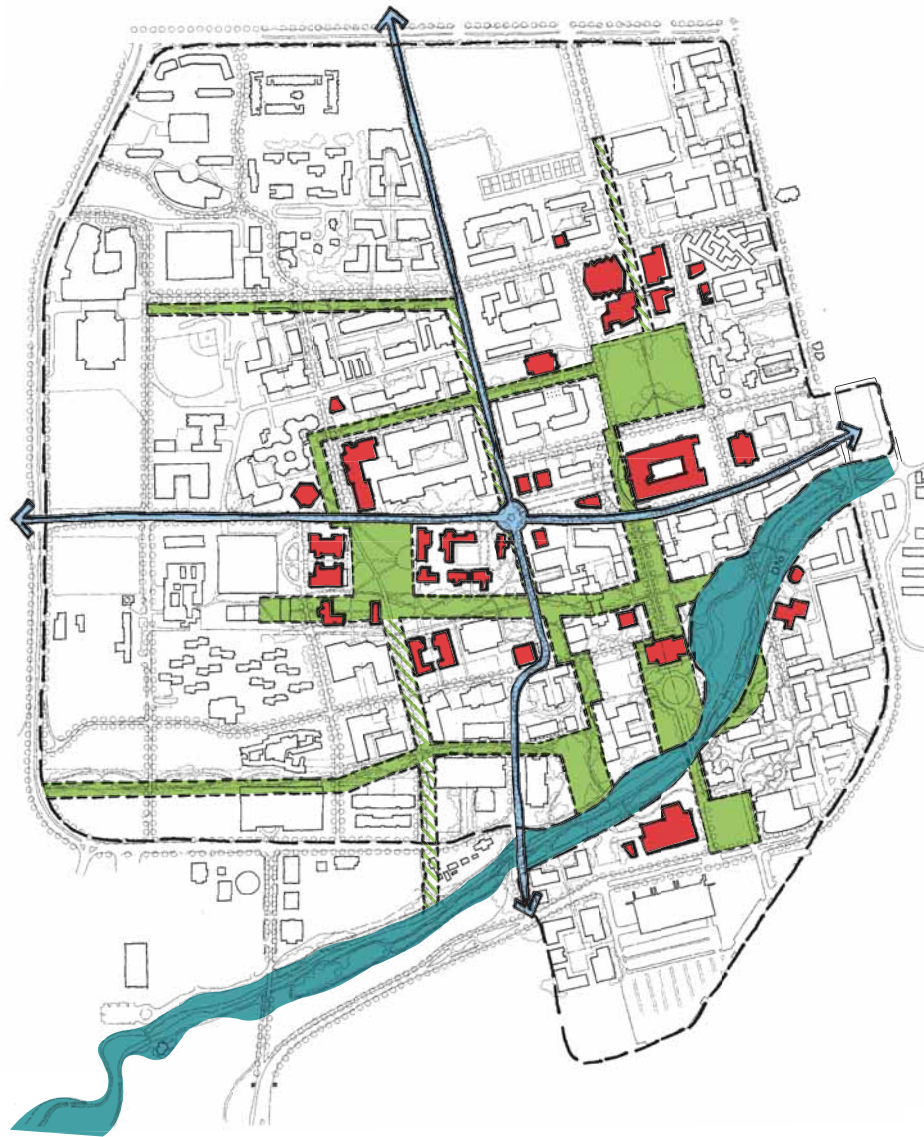


Bicycle Boulevards

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Garden Walks

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Building Framework
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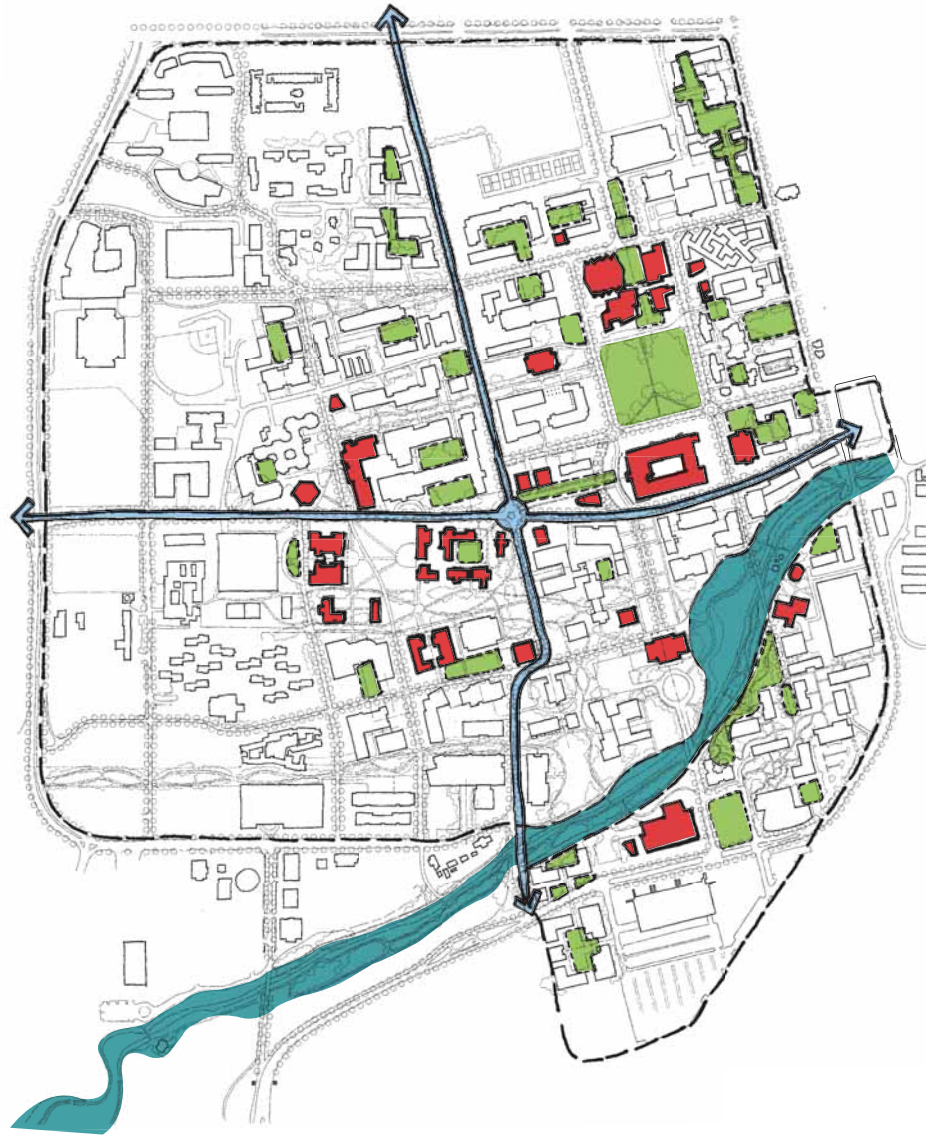
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Health Science Connections UC Davis Campus Core Study

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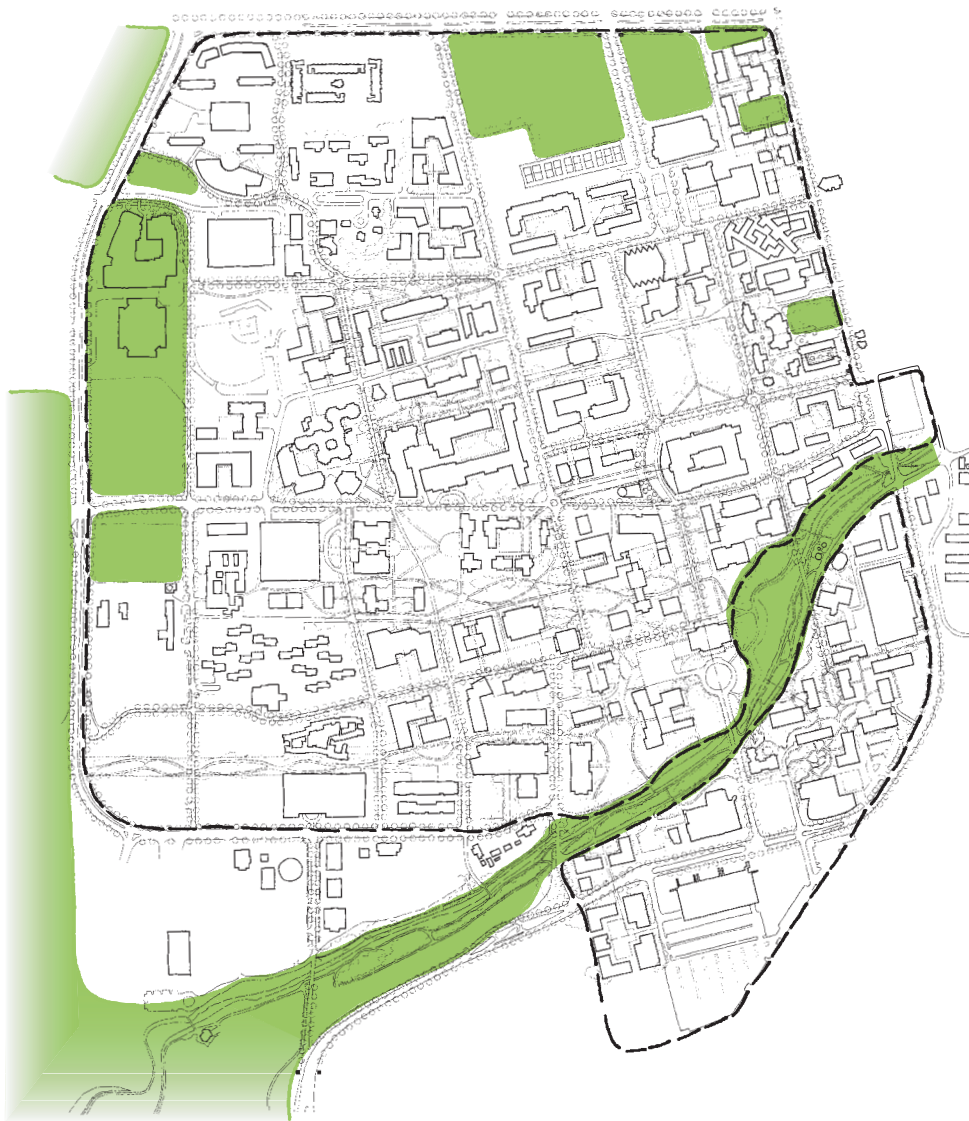


Campus Greens

UC Davis Campus Core Study

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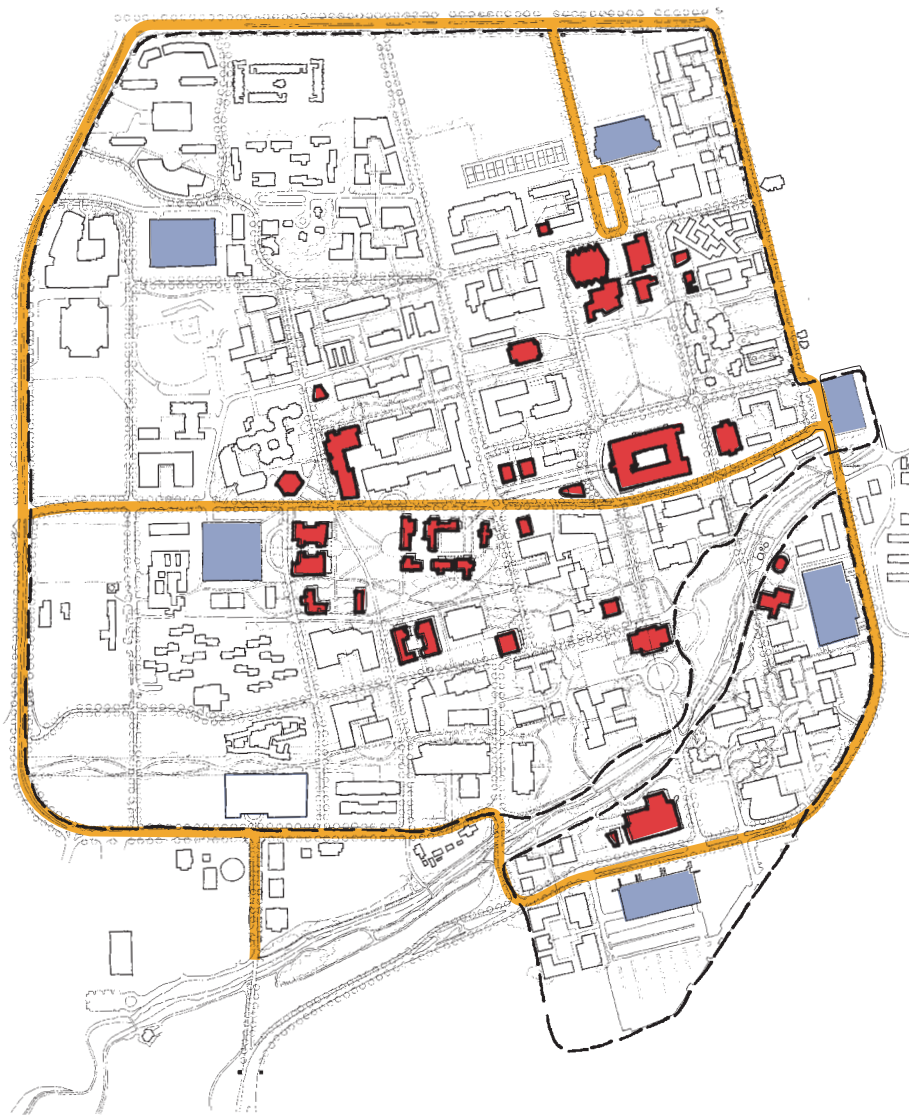
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Green Public Ring
UC Davis Campus Core Study

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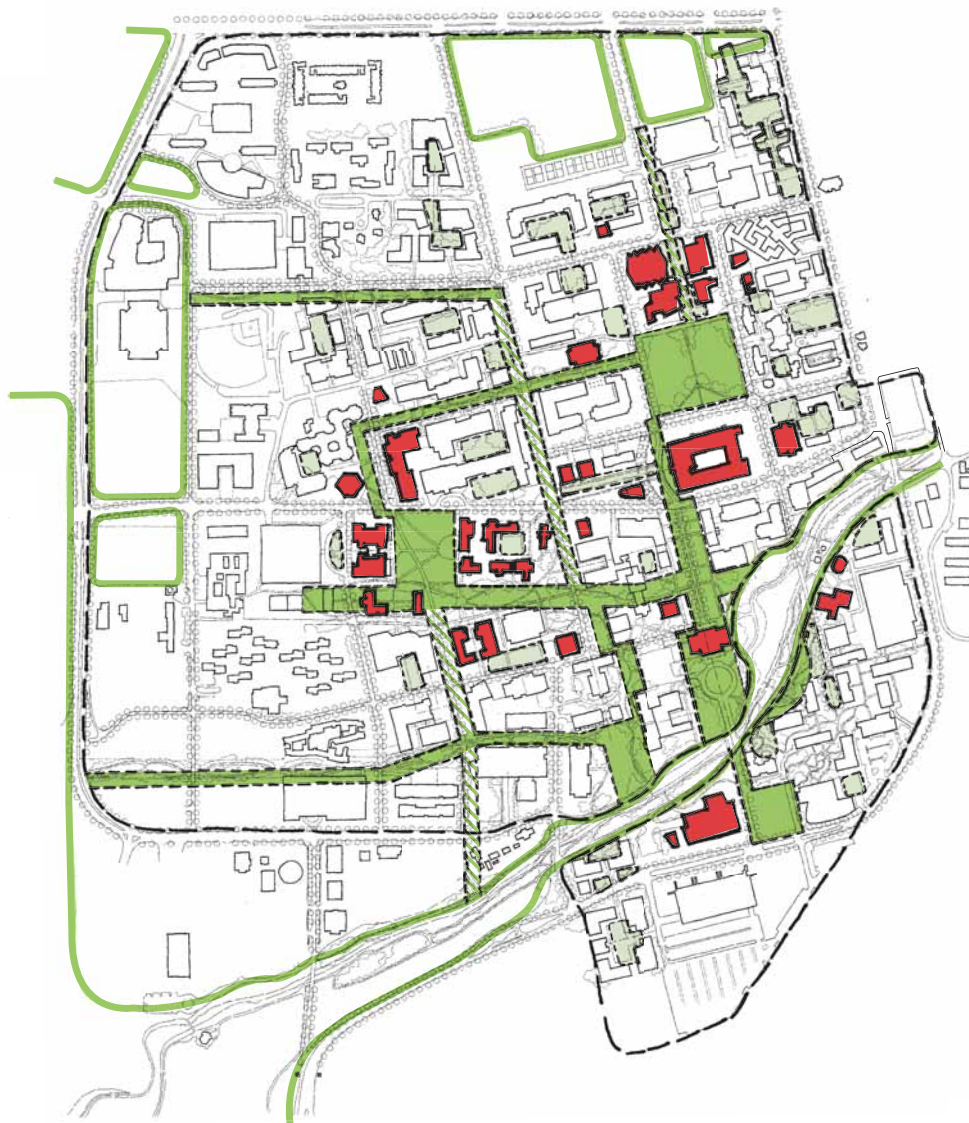
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Perimeter Parking UC Davis Campus Core Study

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Hierarchy of Open Space

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Technical Diagrams

The technical diagrams provide greater detail to inform and guide implementation of the Campus Core plan. Three diagrams provide the routes and locations for pedestrian, bicycle, vehicular, transit and service routes on and around the study area. The existing and new building diagram displays all the new campus buildings in a numbered format. These building numbers correspond to those found on the campus core capacity table, providing the gross and net OGSF and ASF for new construction achieved within the study. The diagrams contained in this section are:

Pedestrian and Bicycle Circulation



Parking and Transit



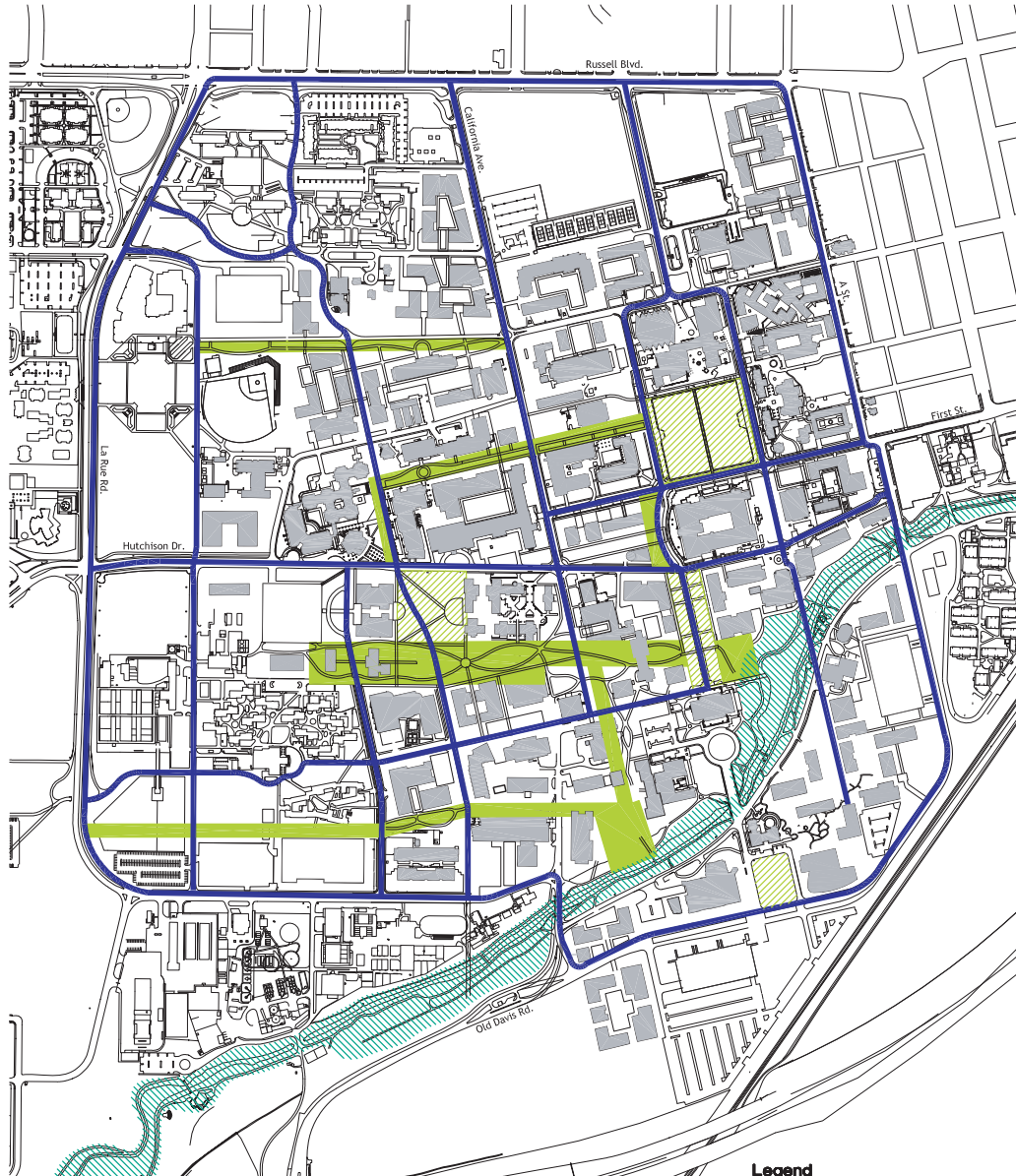
Service Access



Existing and New Core Buildings



Campus Core Capacity Table



Legend

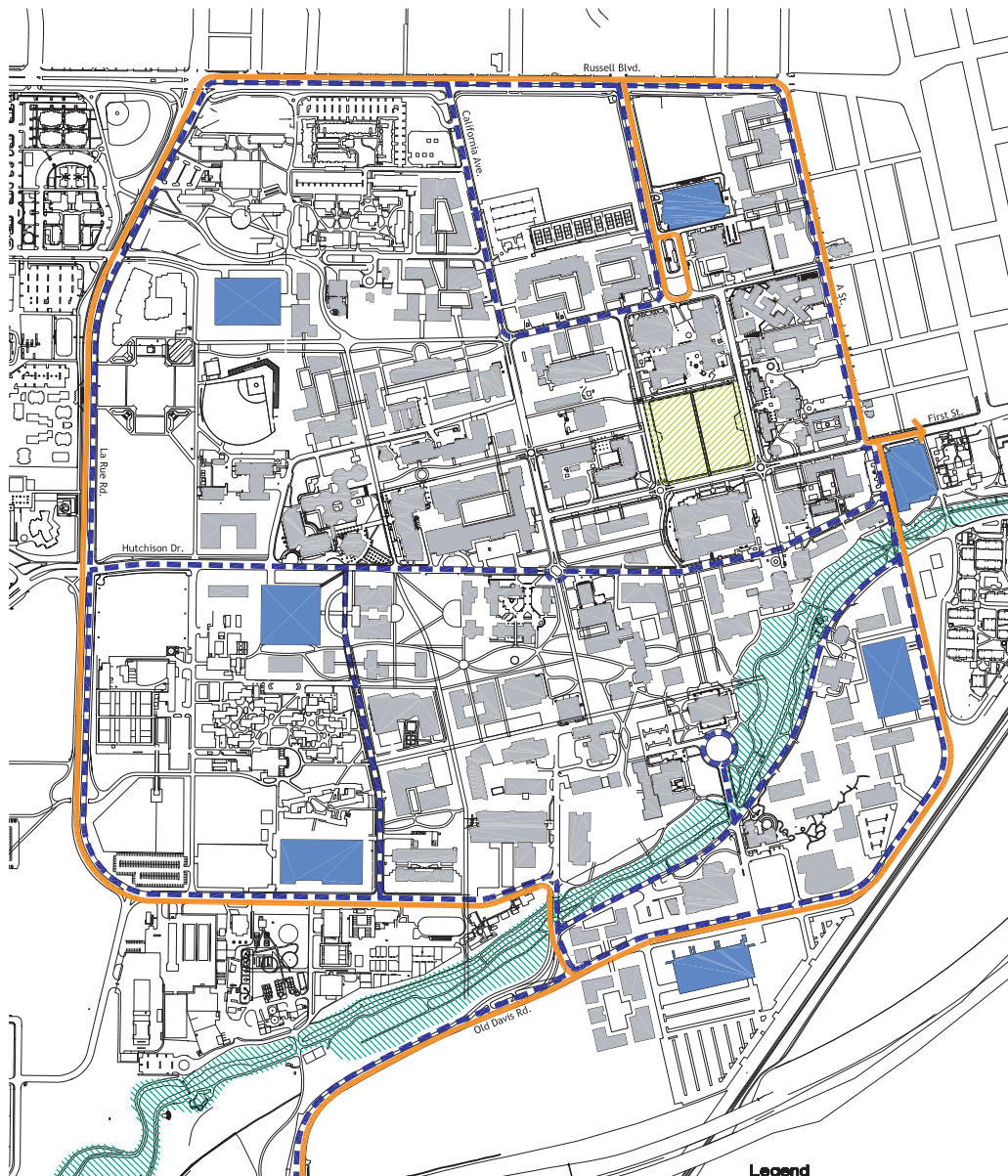
-  Bicycle Boulevard
-  Garden Walk (pedestrian)



Pedestrian and Bicycle Circulation UC Davis Campus Core Study

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Legend

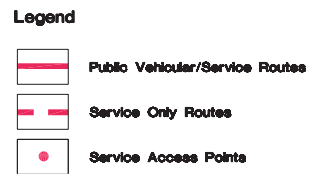
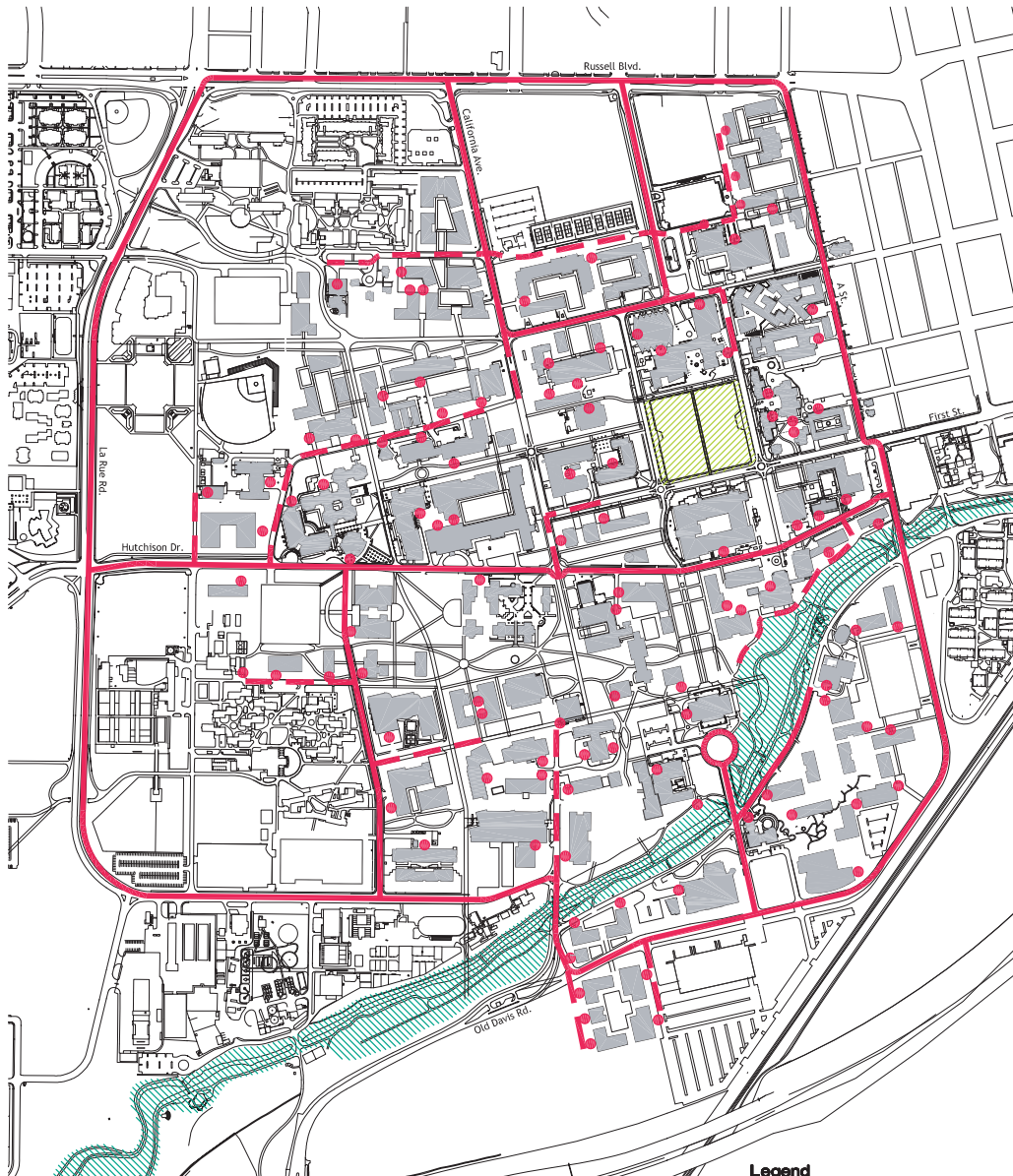
-  Public Vehicular Routes
-  Transit Routes



Parking and Transit **UC Davis Campus Core Study**

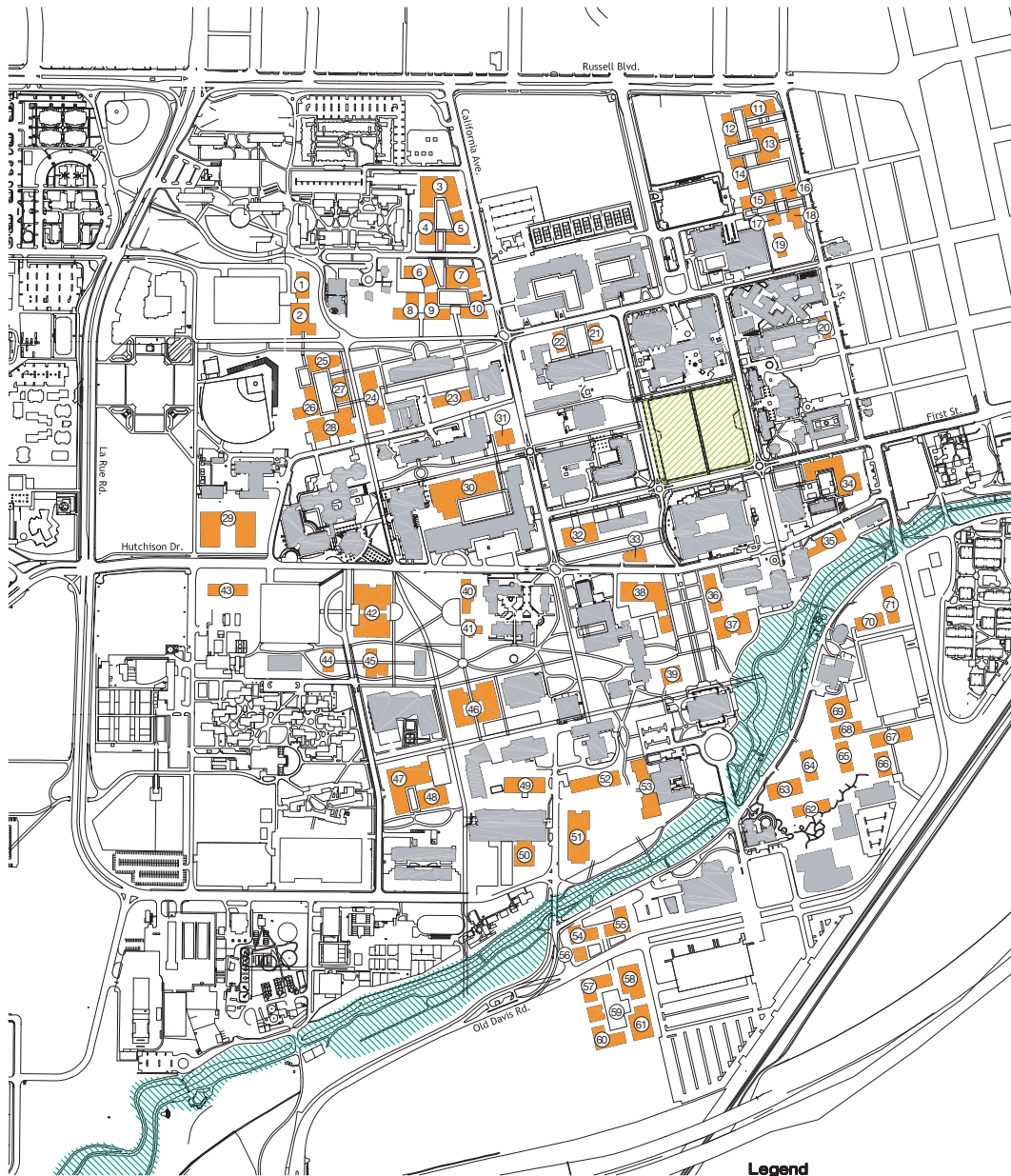
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Service Access

UC Davis Campus Core Study



Legend

- Existing Buildings
- New Buildings



Existing and New Buildings

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Capacity Analysis

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New Construction							
Building No.	Primary Use	Width	Length	Floorplate	Floors	OGSF 80%	OGSF:ASF 1.40
1		55	130	7,150	3	17,200	12,300
2 a	lab	110	160	17,600	3	42,200	30,100
2 b		55	40	2,200	3	5,300	3,800
3 a	lab	110	190	20,900	3	50,200	35,900
3 b		55	110	6,050	3	14,500	10,400
4		55	160	8,800	3	21,100	15,100
5		55	230	12,650	5	50,600	36,100
6		55	180	9,900	3	23,800	17,000
7	lab	110	160	17,600	5	70,400	50,300
8		55	200	11,000	3	26,400	18,900
9		55	200	11,000	4	35,200	25,100
10		55	150	8,250	5	33,000	23,600
11		55	170	9,350	3	22,400	16,000
12		55	160	8,800	5	35,200	25,100
13	lab	110	190	20,900	5	83,600	59,700
14		55	160	8,800	5	35,200	25,100
15		55	180	9,900	5	39,600	28,300
16		55	80	4,400	3	10,600	7,600
17		55	80	4,400	3	10,600	7,600
18		55	100	5,500	3	13,200	9,400
19		55	130	7,150	5	28,600	20,400
20		55	110	6,050	5	24,200	17,300
21		55	110	6,050	3	14,500	10,400
22		55	110	6,050	3	14,500	10,400
23		55	180	9,900	4	31,700	22,600
24		55	280	15,400	5	61,600	44,000
25		75	170	12,750	6	61,200	43,700
26		55	180	9,900	6	47,500	33,900
27		55	130	7,150	6	34,300	24,500
28	lab	110	230	25,300	6	121,400	86,700
29 a	lab	110	360	39,600	5	158,400	113,100
29 b		55	80	4,400	5	17,600	12,600
30	lab	110	420	46,200	5	184,800	132,000
31		55	100	5,500	3	13,200	9,400
32		55	200	11,000	2	17,600	12,600
33		55	120	6,600	2	10,600	7,600
34 a		75	75	5,625	4	18,000	12,900
34 b		55	350	19,250	4	61,600	44,000
35		55	175	9,625	4	30,800	22,000
36		55	200	11,000	5	44,000	31,400
37	lab	110	180	19,800	5	79,200	56,600
38	lab	110	230	25,300	5	101,200	72,300
39		55	100	5,500	4	17,600	12,600
40		55	160	8,800	2	14,100	10,100
41		55	140	7,700	2	12,300	8,800
42	library	110	400	44,000	5	176,000	125,700
43		55	210	11,550	5	46,200	33,000
44		55	110	6,050	2	9,700	6,900
45		55	210	11,550	2	18,500	13,200
46		75	400	30,000	5	120,000	85,700
47 a	lab	110	220	24,200	5	96,800	69,100
47 b		55	140	7,700	5	30,800	22,000
48	lab	110	150	16,500	5	66,000	47,100
49		55	220	12,100	5	48,400	34,600
50	lab	110	110	12,100	4	38,700	27,600
51	lab	110	270	29,700	5	118,800	84,900
52		55	160	8,800	6	42,200	30,100
53		55	320	17,600	4	56,300	40,200
54		55	180	9,900	3	23,800	17,000
55		55	200	11,000	3	26,400	18,900
56		55	55	3,025	2	4,800	3,400
57		55	220	12,100	5	48,400	34,600
58	lab	110	160	17,600	6	84,500	60,400
59		75	75	5,625	4	18,000	12,900
60		55	220	12,100	5	48,400	34,600
61	lab	110	160	17,600	6	84,500	60,400
62		55	200	11,000	3	26,400	18,900
63		75	180	13,500	3	32,400	23,100
64		55	160	8,800	3	21,100	15,100
65		55	160	8,800	4	28,200	20,100
66		55	130	7,150	5	28,600	20,400
67		55	220	12,100	5	48,400	34,600
68		55	180	9,900	4	31,700	22,600
69	lab	110	110	12,100	4	38,700	27,600
70		55	150	8,250	4	26,400	18,900
71		55	190	10,450	5	41,800	29,900

Total New Construction	3,392,000	2,423,000
Total Facilities Removed	1,071,000	785,000
Net Increase	2,321,000	1,638,000
	OGSF	ASF
	Rounded	Rounded

7

Bike Boulevard and Garden Walk Plan Enlargements

The Bicycle Boulevards and the Garden Walks will provide a balanced system for pedestrians and bicycle travel in the campus core. While both the boulevards and the walks will accommodate bicycles and pedestrians, the intent is for the boulevards to be bicycle dominant, and the walks to be pedestrian dominant. This is achieved in the Garden Walks by clearly differentiating areas for pedestrian use from those for bicyclists. Within the Bicycle Boulevards, the central area is for bicyclists, with pedestrian paths on either side.

The networks of boulevards and walks generally alternate throughout the campus. The Bicycle Boulevards stretch farther out to the edges of the campus core while the Garden Walks focus within the study area particularly around and within the campus center uses.



① Bikeway



Keymap



Bike Boulevard UC Davis Campus Core Study



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- ① Pedestrian Walk
- ② Bikeway



Keymap



Garden Walk

UC Davis Campus Core Study



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Arboretum Connections



Campus Center



Bicycle Boulevards



Garden Walks



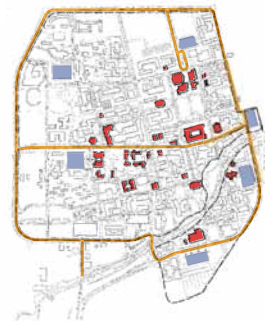
Building Framework



Campus Greens



Green Public Ring



Perimeter Parking



Hierarchy of Open Space

UC Davis Campus Core Study