UC RIVERSITY OF CALIFORNIA

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STRATEGIC PLAN STUDENT HOUSING UPDATE

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HANBURY EVANS WRIGHT VLATTAS + COMPANY ARCHITECTURE + PLANNING



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A COLLABORATIVE EFFORT

The University of California, Riverside Strategic Plan for Student Housing is the result of a collaborative effort led by the Strategic Plan for Student Housing Update Planning Committee and Hanbury Evans Wright Vlattas + Company. The process included participation by resident and non-resident students, undergraduate and graduate students, special interest groups, University staff, and University administration. We also recognize the contribution of Walker Macy, the University's consultant for the Campus Aggregate Master Planning Study (CAMPS) who provided the whole campus rendering for this report. The Strategic Plan for Student Housing incorporates ideas generated through on-site workshops, focus groups, planning team meetings, presentations and reviews, the planning consultant's physical and community analysis and evaluation of the existing housing system, the campus fabric, and the context of the City of Riverside.

The entire planning team is grateful to all who have devoted their vision, time, ideas, and energy to the process of the planning and creation of the Strategic Plan for Student Housing.

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New Housing Sites on East and West Campus

EXECUTIVE SUMMARY

The University of California, Riverside (UCR) Strategic Plan for Student Housing advances the housing component of the University's 2005 Long Range Development Plan and provides a sustainable framework that supports the projected campus growth to 25,500 during the event horizon of the plan and recognizes an ultimate campus enrollment of 31,000 as projected in the 2008 Campus Aggregate Master Planning Study. This plan encourages the perpetuation of the signature strengths of the UCR campus and strives to achieve an ideal future residential community.

This plan achieves the residential goals of UCR's 2005 Long Range Development Plan (LRDP) over a 18-year time frame. This includes the accommodation of 50 percent of the UCR students (including 75 percent of the freshmen) in campus housing and a total projected enrollment growth to 25,500 students by 2026. To achieve these goals, this plan requires nearly a \$1.3 billion dollar investment over five cycles of new construction within a 18-year time frame.

The primary organizing concept of this plan is the provision of new residential neighborhoods on the existing East Campus and on the proposed West Campus. These neighborhoods build on the strengths of the existing residential program and provide the University with the following:

Undergraduate Housing

• 3,000 total new residence hall-style beds and associated parking on the East Campus, providing programs and space allocations primarily targeted for first-year students, with space for returning students.

Upperclassmen and Graduate Student Housing

- Removal of 375 existing apartment beds at Bannockburn
- Removal of 450 existing apartment beds at Falkirk
- 4,288 total new apartment-style beds and associated parking on the East and West Campus, providing independent lifestyle living with all the conveniences of living on campus
- 336 small group housing beds and associated parking on the East Campus
- 300 apartment-style housing beds and associated parking on the West Campus for medical students

Family Housing

- Removal of 268 existing family units from the Canyon Crest Site on East Campus.
- 708 total new family housing units and associated parking in apartment and townhouse-style residences on the West Campus, targeted toward the needs of families with dependents.

Related Programs

Recreation, child care, dining, and student services facilities are provided throughout the new neighborhoods to meet the diverse needs of the residents and the University at large. These amenities shall be funded via their respective unit's budgets.

Recreation

• New recreation fields distributed to each neighborhood for use by residents, intramural sports and summer camp programs.

- New recreation building on the West Campus for use by the residents and the campus community.
- · A swimming pool in each new residential neighborhood.
- Dedicated tot lots in each of the family housing blocks.
- Dedicated green space for each neighborhood for informal recreation.

Child Development Centers

- Two new child development centers for the West Campus to serve the resident population and the campus community.
- · Dedicated parking for the child development centers.

Dining and Student Services

- One new full-service dining facility to serve the existing and proposed residence hall population.
- Existing dining facilities at Aberdeen-Inverness and Lothian to remain in operation to support the dining program and provide community space for the residents.
- A convenience store/deli to serve the residence hall population on the Canyon Crest Site.
- An emporium to be located at Aberdeen-Inverness Hall to support renovated student common spaces.
- Demolition of the existing Veitch facility and the construction of a multi-purpose student activities center incorporating Counseling and Health services on the Veitch Site.

This plan provides a phased approach, allowing the University to advance incremental components of the plan and the opportunity to accelerate, postpone, or adjust the phases to meet the changing needs of the University over the 18-year period and beyond.



OVERVIEW

UCR is experiencing a growth cycle with a present enrollment of approximately 16,500 (academic year 2006-07) students that is expected to increase to an estimated 20,000 students by 2012-13 projected and 25,000 students by 2025-26 projected. The University desires to align the housing program with the projected enrollment and physical campus growth. Further, it is the desire of the University, and the objective of the University's 2005 Long Range Development Plan (LRDP), to increase the housing goal from 35 percent to 50 percent of the UCR students (including 75 percent of the freshmen and 50 percent of transfer students) in University housing. In 2007, UCR housed approximately 30 percent of students.

The LRDP includes the following goals, which can be enhanced through the successful execution of the Strategic Plan for Student Housing:

- Increase the critical mass of the on-campus community and improve opportunities for social interaction, socialization, and learning.
- Improve University town/gown connections and interaction, including improving opportunities along University Avenue.
- Emphasize strong connection and accessibility within campus and within the surrounding community.
- Create a regional model of planning, design and environmental stewardship, protecting the natural environment and incorporating sustainable planning and design practices.
- Enhance the UCR image with a unique design expression.

With these goals, the Strategic Plan for Student Housing also must preserve UCR's current housing mission of providing residents responsive and supportive staff and superlative programs that foster student success.

The University's enrollment growth will create new demands for offcampus as well as on-campus housing. The University Community Plan, developed by the City of Riverside, and the University's LRDP, identify University Avenue as a unique opportunity to capture development and activity to benefit the city and the University.

As the Strategic Plan for Student Housing advances, it is recommended that the plan remain current and responsive to the private sector housing occupancy rates and the status of private sector housing, retail, and recreation proposals and projects. Pending the status of those initiatives, the University may choose to advance or delay certain components of the plan; however, it is not anticipated that the private sector development will alter the general targets / capacities recommended in the Strategic Plan for Student Housing.



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REPORT SUMMARY

In March 2007, The University of California, Riverside, commissioned Hanbury Evans Wright Vlattas + Company to update the 2003 Strategic Plan for Housing. The goal of the update is to accommodate UCR's residential growth over the next 18 years through the advancement of residential concepts in accordance with the basic land use development as established in the University's 2005 Long Range Development Plan (LRDP). This is achieved through the development of a sustainable housing plan that supports and accommodates the projected resident growth, encourages the perpetuation of signature strengths of the UCR campus, and strives to achieve an ideal residential community.

The following outline represents the primary areas of exploration and the framework that was developed, each of which is further defined in the context of this document.

Ideal Residential Community

The Ideal Residential Community Models are targeted for each student group, and the Principles of Planning define and provide the framework for the logical organization of the physical environment of each neighborhood.

Program Development

Program Development includes both interior and exterior space requirements. Building program models provide the framework for the area required per student. This is accomplished through the analysis of student community space programs, which model the size and quantity of spaces for each targeted student group.

Strategic Plan for Student Housing

The physical planning recommendations that accomplish the programmatic requirements of the plan to provide strong campus and community connections. It is responsive to each site's unique natural environment providing opportunities for strong student communities that enhance and diversify the residential living opportunities at UCR.

Phasing and Implementation Plan

The Phasing and Implementation Plan is a framework of action for targeted growth over 18 years. The targets specified will only be met as demand exists. The phasing plan is presented as a comprehensive total campus plan within the context of the site on a per-neighborhood basis, to accomplish an anticipated campus capacity for housing 50 percent of 25,500 students projected by 2026-27.



THE IDEAL RESIDENTIAL COMMUNITY ideal residential models

The ideal residential community for UCR is one that is unique to student needs, offers an appropriate mix of living options, addresses the mission/vision of the University resident population, meets the targets as proposed in the LRDP, and enhances and contributes to the campus fabric, physically, socially, and academically.

The fundamental organizing element and signature strength around the existing residential communities at UCR is the identifiable neighborhood. Aberdeen-Inverness, Lothian, Pentland Hills, Glen Mor, and the various apartment neighborhoods are each unique in their offerings and identifiable as both physical and social communities.

This Strategic Plan for Student Housing recommends strengthening and extending the existing neighborhood concept as a model for future residential growth. To guide this growth successfully, this plan bases its proposed concepts on the development of Ideal Residential Community Models, which must be understood for each targeted student group, and on the Principles of Planning, which define and provide the framework for the logical organization of the physical environment of each neighborhood.

Ideal Residential Model

An Ideal Residential Model is shaped by the institution's unique physical and societal attributes of community, academics, and identity. At UCR, these attributes must be defined and balanced with the ability of the University to meet the needs of its student sub-markets, to be responsive to projected enrollment growth, to be informed by current and forecasted trends in student housing, and ultimately, to be framed in the context of UCR's signature strengths, campus fabric, and mission. The characteristics of these attributes are defined below in general terms and in the roll that each attribute plays at UCR.

Community

The residential community is defined by the community response to the needs of the:

- individual student,
- residential community, and
- · connections to the broader campus.

UCR's strong focus on first-year, transfer students and associated residence life programming, apartment communities for upperclassmen and graduate students, and the provision for family housing, are signature strengths of the housing system. In focus groups and open campus meetings, students identified the housing offerings as contributing to both their attraction to and their desire to remain at the University.

To meet the diverse needs of the individual student groups at UCR, new housing offerings should continue to allow students to "grow through the system," providing affordable, intentional, and desirable choices for entering freshmen, transfer students, upperclassmen, graduates, and families.

Academics

The residential community shall be supportive and reflective of the academic mission of the University.

This includes spaces for individual and group study and technology support, such as computer labs and printing centers. Additionally, as the University seeks to achieve world leadership in select academic areas, housing offerings can enhance and support this mission, particularly in the development of graduate housing for use in the recruitment of top students in these select fields.

Identity

Physical and social environments provide the greatest opportunities for sense of place and individual community identity.

The physical identity of UCR housing is predominately defined by the natural environment and the designed landscape. The social identity is predominately defined by the distinct neighborhood identity, the organization of the communities within each neighborhood, and the actual civic spaces for each community. Distinguishing features that shape the existing identity, and that will influence the new identity, include the park-like settings of the residence halls, the civic spaces and pools of the apartment communities, and the variety of green spaces in family housing, from tot lots to larger scaled parks. The recreation spaces for the individual neighborhoods provide open space identity to the residential areas.

A unique identity of the West Campus includes the citrus heritage, which can be incorporated through selective preservation or reference to existing citrus groves.

Ideal Residential Models are used to generate physical space program models for each neighborhood, so that the quantity and type of area required per student or per unit is understood and balanced against the programmatic objectives of the University and the students' needs. These program models can be found in the building programs section of this report and provide the basis for developing concepts that test the densities, capacities, and opportunities of each site.

The Principles of Planning guide conceptualization for each neighborhood, through the integration of the specific Ideal Residential Model and the unique opportunities of each site.

Each neighborhood is planned to have a discernible hierarchy that provides a sense of logic for the built and natural environment and the supporting systems of the community. The planning principles for each neighborhood shall include a strong sense of community and identity, identifiable edges and centers, and an intentional network of connections and destinations. The Principles of Planning are used to generate and reinforce the physical site concepts for each neighborhood so that the quality of land use and placement of program space provide the maximum opportunity to build a strong resident community. These concepts are graphically presented in the Campus Housing Strategic Plan section of this report.

Community and Identity

Each neighborhood shall provide a unique sense of identity and a strong sense of community for the residents. Identity and community emerge from both the physical and the social attributes of the neighborhood and the site. Physical features include geographic location, the natural and naturalized landscape environment, the architecture, and the campus and town relationships. The social environment is defined by the programmatic objectives of the neighborhood, the physical adjacencies, and the neighborhood amenities. The social environment is further enhanced through strong physical connections, defined sense of arrival, social nodes that provide opportunities for chance encounters and resident interaction.

Edges and Centers

Each neighborhood shall have a structure with a defined center and discernible edges. The center shall be a focal point of the community, defined by civic spaces and community buildings, such as dining commons, student services, plazas, etc. These spaces and buildings shall occupy important sites, and they shall be oriented and designed to generate and terminate important view corridors. The edges can be less distinct and vary in character but generally define the limits of the community through natural features, landscape, open space, and background buildings.

Connections and Destinations

Each neighborhood shall have a circulation system that creates a hierarchy of public and residential paths and connections. The physical placement of pedestrian paths, transit connections, and neighborhood streets, shall take into consideration the natural desire lines and shall intercept public spaces to intentionally capture activities and increase the critical mass of on-campus community. This improves opportunities for informal interaction, socialization, and learning. Vehicular traffic in the neighborhoods is designed to be local, slow, and to minimize through–traffic to avoid pedestrian/ bicycle/vehicular conflicts.



Staff Townhouse



Staff Townhouse Second Floor



Typical Unit Plan



Typical Unit Plan



Three Bedroom Family Unit



Two Bedroom Semi-Suite Apartment



PROGRAM DEVELOPMENT

The building programs for each component of residence life is the translation of the Ideal Residential Model into specific spatial objectives, including quantity, size, and relationship of spaces for each student sub-market, including first-year students, transfer students, upperclassmen, graduate students, and families.

The program models are planning guides. The actual spaces and assignable to non-assignable space may vary in the final design. The goal of the program is to outline an informed and reasonable range of space detail so that reliable site tests and budgets can be articulated in preparation for the next phases of development.

The consensus of the University relative to attributes and amenities required by each student group is represented in the Student Lifestyles Matrix found on pages 14-15. The individual model programs also are included for residence halls, apartments, and family housing. The exterior space program is equally critical to the success of each neighborhood and the campus fabric. The general criteria for exterior space programming are outlined below.

General Exterior Program for Residential Communities at UCR

- The new residential areas shall be identifiable communities, each with its own unique expression.
- The residence hall communities and dining areas shall populate and invigorate the existing campus connections and paths, and shall reinforce UCR's unique landscape features.
- The circulation space and organization of all residences, and their relationship to each other, shall facilitate informal gatherings, chance encounters, and contact between neighbors.

- Community and support spaces shall be provided in each building/community to serve the needs of the residents. However, the larger community activities, such as dining for residence halls, computer lab use, etc., shall be visible, accessible, and centralized in neighborhood or regional centers to enhance the identity of the community. At the same time, these should be accessible and visible to serve the larger campus community.
- Each neighborhood shall have dedicated open space and outdoor rooms/gathering spaces to balance the individual living needs of students with social opportunities, creating a spirit of collegiality.
- Each neighborhood shall have dedicated exterior bike storage that is visible and accessible to residents.
- Each neighborhood shall integrate open recreation fields as articulated in the LRDP. These fields shall serve both the residents and the campus community.
- Neighborhoods shall have strong campus connections. Residents shall have appropriate access to their cars; however, the neighborhoods shall be organized around the pedestrian campus experience and shall promote walking, bicycle riding, and use of the transit system.
- Neighborhoods shall respond to regional climate and shall protect and enhance the natural environment.
- Neighborhoods shall have a unique design expression and shall complement the campus fabric through materials and landscape.

student lifestyles matrix

	1 INDIVIDUAL	2 RESIDENTIAL COMMUNITY	3 CAMPUS COMMUNITY
First Year	Privacy / Bath (low student: bath ratio; 4:1)	Desired Socialization	Mail / Front Desk
Community Size: 1,000 - 1,200 Beds	Connection between room and circulation;	Large program area (scheduled 1/ every 2 wks)	Visual and physical access to dining
Residential Community Size: 500 - 600 Beds	students want to prop doors open	Desire no door closers for socialization	Recreation
Staff Ratio: 1:50 or less	Security	Visual connection to other rooms is desired	Bike Storage
	Showers; dressing area desired	(non-contiguous communities are an issue)	Parking Ratio 1:4
	Big Windows	Small Meeting spaces	Transit Stops
		Game rooms	Dedicated green spaces
		Study areas and areas for academic support	Relationship to green space
		Flexible program areas / multi-purpose	After hours food service desired / C-Store
		Identity	Computer Lab / Print Center
		Laundry	Pool
		Gaming Lounge	Fitness Room
Transfers	Offer a package deal - appealing	Laundry/study space	Location to promote campus activities
Integrated in all Neighborhoods	Locate / live w/ other transfers	Small group study with storage	
	Desire apartments or single rooms	Mature environment	
		Gaming Lounge	
Upperclassmen	Privacy / quiet	Community Programs / Social	Bike Storage
Community Size - 200 - 400	Amenity balanced with affordability	Laundry in or proximate to living unit	Transit Stops
Staff Ratio: 1:100	Provide both furnished and unfurnished apts.		Computer Labs / Print Centers
			Apartments Parking Ratio 1:2
			Gaming lounge
Graduate		Laundry/study space	
Community Size - 400	Wireless Internet	Small group study with storage	Convenience Store
(500 Max)	Studio/efficiency units - high percentage	Mail	Recreation Space
Single Student	3 and 4 (single bedroom) units - low percentage	Vending	Bike Storage
Family	2 bedroom apartments	Medium conference room	Transit Stops
Visiting Scholar (monthly rental)	1 bedroom apartments	Social Lounge	Fitness room
		Computer Lab	Business Center
		Gaming Lounge	
		Mail boxes adjacent to lobby	

student lifestyles matrix

	1 INDIVIDUAL	2 RESIDENTIAL COMMUNITY	3 CAMPUS COMMUNITY
Medical Student		Laundry/study space	
Community Size 150 - 300	Wireless internet	Small group study with storage	Frequent Shuttle Pick-up
Single Student	Studio/efficiency units	Vending	Proximate Parking (Ratio 1:1)
Family	2 bedroom apartments - low percentage	Large conference room with kitchenette	Convenience store
Visiting Scholar	1 bedroom apartments	Mail boxes adjacent to lobby	Business Center
		Social Lounge	
		Computer Lab	
		Fitness room	
Family	Affordability	Community space	Child Development Center
Community Size - 150 - 300	2-bedroom and 3-bedroom units	Desire vertical vs. horizontal separation	Defined "identifiable" neighborhood
	Size less important than "home like"	Proximity to neighbors important	Recreation Fields, Recreation Center
	Personal yard space	Secure tot lots	Playground, tot lots, and picnic areas
	Personal Storage	Quiet study areas	Residential scale; 2-story desired vs. 3 story
	Flats	Computer lab	Proximate parking (Ratio 1.5:1)
	Townhouses		Pool
	Laundry		Retail food, but no formal dining facility
	High Speed Internet		Connections to campus - bike, pedestrian
	Unfurnished		path, shuttles
			Convenience store (at Recreation Center)
			Perceptual / actual community security
			Transit system families can use
			Gaming Lounge
Group Housing		Chapter room for 50	Parking (Ratio 1:2)
Community Size - 20 - 28 Beds	Wireless internet	Study Room	Accommodate expansion
	Houses	Yard space	Close to campus
		Living Room	Gaming Lounge
		Laundry	Bicycle Storage (Exterior)
		Full Kitchen	Social event space for 100-200
		Architectural distinctiveness	Exterior Guest Parking
		RA is part of the organization	Central Mail Pavilion

Space #	Space / Description	Quantity	ASF	Total ASF	Occupancy	Comments
	Staff			0		
982	Staff Apartment	0	600	0	2	
	Residential Spaces			65,376		
982	2 Bedrooms / 1 Bath	24	600	14,400	48	
982	3 Bedrooms / 2 Baths	12	748	8,976	36	
981	4 Bedrooms / 2 Baths Option 2	35	1,200	42,000	140	
	Support Spaces			6,300		
720	Student Personal Storage	14	210	2,940	12	
402	Housekeeping/Custodial Closets	7	70	490	1	
920	Telecommunication Closets	7	70	490	1	
985	Laundry/Vending	14	170	2,380	6	
	Total ASF			71,676		
	Program Efficiency Ratio @ 66%					
	Target GSF			108,600		
	Target GSF/Bed			380		



Entry St. Petersburg, Florida

Notes: • Residential spaces include space allocations for accessibility requirements

• Exterior Space program included in Strategic Plan for Housing Document

• 380 GSF/Bed is for planning and budget purposes; program refinement required in program and design phase

• Non assignable area per U.C. program standards

• Program assumes building to achieve the program bed count of 224 beds, including parking at the Ground Floor with three floors of residential above.



Residential Street Parking at Lower Level St. Petersburg, Fla.

apartment program model



Highlighted areas indicate Apartment Housing The program model for the student apartments is designed to be flexible to meet the needs of graduates and older undergraduate students. The program is composed primarily of apartment units with two, three, and four single occupancy bedrooms. The model is based on a community of 224 students to generate an area-per-unit for planning and budget purposes. Due to the varying sizes of the residential blocks and streets, program features, and phasing needs, the final community size/number of buildings/phase may vary; however, the planning figure of 380 gsf/bed should not be exceeded as an average for the total program.

The apartment program provides an ideal housing model to build over parking, providing secure parking and housing around an elevated courtyard. This concept allows the housing, parking, recreation and amenity densities desired by the LRDP to be met without increasing land area. The photographs shown on the facing page are examples of successful neighborhoods with similar residential/parking programs and configurations.

The plan diagrams shown on the following pages provide a basic urban block that responds to this program and were utilized in developing density tests. The actual configuration will vary to suit the site, capacity, and program needs of each neighborhood.

The apartment program for medical student housing is not intended to use the podium model. It is envisioned that the medical student housing program will utilize predominantly two-bedroom units.



Elevated courtyard over parking St. Petersburg, Fla.

apartment program model





3 story over parking podium

- 2 Bedroom Units 17 3 Bedroom Units 42 4 Bedroom Units 12
 - TOTAL BEDS 208

apartment program model







Space #	Space / Description	Quantity	ASF	Total ASF	Occupancy	Comments
	Staff / Living Spaces			13,720		
982	1-Bedroom Apt. (2/Hall)	2	504	1,008	1	Head Resident Staff
911	1-Person Suite (1/Hall)	1	384	384	1	Program Coordinator
982	2-Bedroom Apt. (1/300)	4	810	3,240	2	Resident Director Staff
911	Bedrm w/Private Bath (1:38 +/-)	32	284	9,088	1	Resident Assistant (RA)
	Student Residences			146,928		
914	4-Person Semi-Suite (2D)	240	562	134,880	960	
912	2-Person Semi-Suite (2S)	24	502	12,048	48	
913	3-Person Semi-Suite (1S/1D)	48	501	24,048	96	
911	1-Person Suite (1S)	0	284	0	0	
912	2-Person Suite (1D)	32	284	9,088	64	
	Residential Community			23,520		
630	Student Lounges	32	550	17,600	15-30	
920	Hall Kitchen	32	140	4,480	15-30	
920	Trash & Recycle (Hall)	12	120	1,440	0	
	Residence Services Office			3,667		
335	Lobby/Reception/Waiting	1	537	537	8	
320	Resident Director Office	1	120	120		
320	Head Resident Office	1	100	100		
320	RSO Manager Office	1	160	160		
320	Staff Offices	5	120	600		
335	Staff Workroom	1	225	225		
335	Staff Restroom	1	60	60		
335	Staff Workstations	3	120	360		
630/929	Staff Lounge/Kitchenette	1	120	120		
340	Conference Room	1	325	325		
410	Poster Room	1	160	160		
335	Storage	1	300	300		
615	Mail Room/Boxes	1	600	600		



Pentland Hills

The program model for residence halls is designed to meet the study and living needs of the firstyear student, the development of a strong residential community, and strong campus connections. The model is based on a community of 600 students to generate an area/student for planning and budget purposes. Due to the unique site features, program features and phasing needs, the final community size/ building groups will vary in size; however, the planning figure of 280 gsf/bed should not be exceeded as an average for the total residence hall program.

residence hall program model

Space #	Space / Description	Quantity	ASF	Total ASF	Occupancy	Comments
	Community / Academic			4,300		
130	Seminar rooms	4	300	1,200	0	
410	Small Group Study	6	150	900	0	
630	Fitness Room	1	1,000	1,000	0	
260/110	Computer Lab or Classroom	1	800	800	30	
630	Gaming Lounge	1	400	400	0	
630	Living Room	1	1,200	1,200		
340	Multipurpose Room	1	6,000	6,000		
	Support Spaces			12,800		
985	Laundry/Vending	16	375	6,000	0	
335	Public Restrooms	2	250	0	0	Note 1
720	Student Personal Storage	2	600	1,200	0	
510	Mechanical Space	2	120	0	0	Note 1
920	Housekeeping Closets	32	80	0	0	Note 1
510	Telecommunications	32	100	3,200	0	
920	Trash Recycle Collection Room	4	500	2,000	0	
610	Unassigned	1	400	400	0	
	Subtotal ASF			204,935		
	Program Efficiency Ratio @ 70%					-
	Target GSF			292,764		
	Target GSF/Bed @ 1168 Beds (1,207 beds including Staff)			280		

Note: 1 Non assignable area per U.C. program standards

residence hall program model







RSO/Community Space

residence hall program model



group housing program model

Space #	Space / Description	Quantity	ASF	Total ASF	Occupancy	Comments
	Staff			432		
982	Housing Director Apartment 1:200 (2 bedroom Apt.)	0	756	0	1	
911	1-Person Bedroom	2	216	432	2	
	Residential Spaces - Suites			7,548		
912	2-Person Bedrooms	28	216	6,048	56	
912	Bath-Suite	6	250	1,500		
	Common Areas			2,185		
675	Entry Lobby	1	170	170		
630	Living Room	1	725	725	28	
920	Kitchen (Residential Scale)	1	200	200		
985	Laundry	1	70	70		
320	Office/Library	1	220	220		
935	Public Restrooms for the Chapter Room	2	50	0		Note 1
630	Chapter Room	1	800	800		
630	Multi-Purpose Room (Shared with other Groups)	1	2,400		200	
	Support Spaces			190		
920	Pantry/Housekeeping	1	60	60	0	
335	Storage	1	130	130	0	
510	Communication Closet	1	150	0		Note 1
	Total ASF			10,355		
	Program Efficiency Ratio @ 70%					
	Target GSF			14,793		



Target GSF/Bed

Notes: 1 Non assignable area per U.C. program standards

group housing program model



The program model for group housing provides an option for any student club and organization who wish to live in a small group house environment. The house model provides single or double occupancy bedrooms on each floor, with a common kitchen and living room at the first floor. The option exists for these groups to have a semi- or detached activities/meeting room sized to accommodate additional group members or invited guest to participate in group functions. It is anticipated that the group housing would be located on the north perimeter of the Canyon Crest site along Blaine Street. It is anticipated that the group houses would be configured as three story duplex buildings with two groups sharing a structure. Each individual group could accommodate between 20 and 28 beds for a potential total of 56 beds per house. This design allows a building scale and density along the street compatible with other university buildings nearby. The site provides an opportunity for 12 different groups to share a common lawn for activities and combined events.

family housing program model

Space #	Space / Description	Quantity	ASF	Total ASF	Comments
	Residential Spaces			323,370	
982	2 Bed / 1 Bath Apartment	190	810	153,900	
981	3 Bed / 1.5 Bath Apartment	58	975	56,550	
982	2 Bedroom Townhouse	72	875	63,000	
982	3 Bedroom Townhouse	48	1,040	49,920	
	Community Building		·	4,135	
675	Lobby/Reception and Vending	1	300	300	Resident Services Office
320	Resident Services Office Reception	1	100	100	
320	Resident Services Offices	4	110	440	
615	Mail Boxes	1	250	250	Based on 350 mail boxes
335	Staff Lounge and Kitchenette	1	195	195	
335	Copy and Work Area	1	80	80	
340	Conference Room	1	300	300	
335	Staff Restroom	1	140	140	
335	Facility Storage	1	160	160	
610/620	Multi-Purpose Room	1	1,200	1,200	After School Program
410	Computer Lab	1	350	350	
410	Library	1	400	400	
615	Kitchen	1	220	220	
	Support Spaces			600	
510	Communications Closets	10	120	0	Note 1
920	Housekeeping Closets	10	120	0	Note 1
615	Pool Storage and equipment room	1	300	300	
335	Public Restrooms	2	150	0	Note 1. Located adjacent to pool area
510	Central Telephone Switching Room	1	300	300	
	Total ASF			323,970	
	Efficiency Ratio for Apartments @ 80%			263,063	
	Efficiency Ratio for Townhouse @ 90%			125,467	
	Efficiency Ratio for Community Space @ 70%			6,764	
	Target GSF			395,293	

Notes: 1 Non assignable area per U.C. program standards

family housing program model



The program model for the family housing is designed to provide a comprehensive neighborhood for the conveniences and needs of family living, including townhouse and apartment-style residences, child care, and neighborhood amenities of a campus recreation center and swimming pool. The model is based on a community of 368 units to generate an area-per-unit for planning and budget purposes. Due to the varying sizes of the residential blocks, program features, and phasing needs, the final community size/number of buildings/phase may vary; however, the planning figure of 1,075 gsf/unit should not be exceeded as an average for the total family housing program.

Family housing is to be implemented in two phases of development The first phase of 368 units and a second phase of 340 units. Each phase will include a child development center for 144 students, community center and swimming pool. A small maintenance office will be located at the eastern end of Phase I.

child development center program model

Space #	Space / Description	Quantity	ASF	Total ASF	Comments
	Administrative			1,125	
675	Drop-off and Entry/Lobby/Car Seat/Stroller Storage	1	270	270	
675	Reception / Waiting / Check-in/-Out	1	220	220	
320	Offices	2	120	240	
670	Small Conference Room	1	70	70	
675	Staff Lounge / Kitchen	1	225	225	
335	Copy Center	1	100	100	
	Child Care	·		8,386	
670	Infant Rooms / Sleeping / Play	1	800	800	
670	Toddler Room Class / Play Rooms	1	540	540	
670	Preschool Class / Play Rooms	3	930	2,790	
670	Children's Restrooms at Classrooms	7	75-123	801	
670	Mother's Room	1	100	100	
670	Toddler II Room: Older Toddlers or Pre-School	1	930	930	
670	Kindergarten Room	1	960	960	
675	Observation Room	5	80	400	
675	Storage Closet @ Classroom	7	30	210	
670	Curriculum Room	1	255	255	
670	Child Isolation room	1	100	100	
670	Child mildly ill room	1	500	500	
	Commons Areas	·		380	
340	Conference/Multi-Purpose Room	1	380	380	
	Support Area			787	
675	Kitchen/Pantry/Loading	1	375	375	
675	Laundry	1	72	72	
675	Maintenance / Access Control Office	1	75	75	
675	Staff Restroom	2	62	0	Note 1
675	Facility Storage	1	265	265	
335	Public Restroom	2	150	0	Note 1
	Subtotal ASF Program Efficiency Ratio @ 73%			10,678	
	Target GSF			14.627	



Notes: 1 Non assignable area per U.C. program standards

child development center program model



The child development center model is based on a model created for the expansion of the existing center on Watkins Drive. The program accommodates a maximum capacity of 144 students with associated open space. The building configuration shown on the plans reflects the floor plan to be used on the East Campus site. The area shown is the gross area and includes circulation and building systems but does not include exterior spaces.

The child development centers will be located with the community center for each phase of family housing. It is anticipated that the two buildings will share a common parking lot.

medical student apartment program model

Space #	Space / Description	Quantity	ASF	Total ASF	Occupancy	Comments
	Staff			600		
982	Visiting Scholar Apartment 1:150 (1 bedroom Apt.)	1	600	600	1	
	Residential Spaces			94,660		
982	Efficiency/Studio	150	308	46,200	150	
982	2 Bedroom Apartment / 1 Bath	35	756	26,460	70	
981	4 Bedrooms Apartment / 2 Baths	20	1,100	22,000	80	
	Community Spaces			5,030		
675	Lobby w/ Desk Area	1	400	400	20	
320	Staff Offices (with storage)	1	180	180	2	
410	Small Group Study with Storage	4	220	880	6 to 8	
670	Medium Conference Room	1	320	320	12	
670	Large Conference Room with Kitchenette	1	750	750	20+	
985	Laundry with Study Space	1	150	150	150	
615	Mail Boxes (adjacent to lobby)	1	150	150	0	
985	Vending	1	100	100	0	
935	Public Restrooms	2	150	0	0	Note 1
630	Social Lounge	1	550	550		
260	Computer Lab	1	400	400		
630	Fitness Room	1	400	400		
610	Business Center	1	250	250		
610/615	Convenience Store	1	500	500		
	Support Spaces			0		
510	Telecommunications Closets	4	120	0	0	Note 1
920	Housekeeping Closets	4	120	0	0	Note 1
	Total ASF			100,290		
	Program Efficiency Ratio @ 70%					
	Target GSF			143,271		
	T : 005/D !					

Target GSF/Bed

Notes: 1 Non assignable area per U.C. program standards

medical student apartment program model



The School of Medicine (SOM) is to be located in the West Camps at the corner of Martin Luther King Boulevard and Chicago Avenue. It is anticipated that the school will accommodate approximately 300 students. Student housing plans to provide space for these 300 students in two 150 bed four-story buildings will be located on the Northeastern corner of the SOM site. Parking for the student housing will be located in an adjacent parking garage.

housing office expansion program model

Space #	Space / Description	Quantity	ASF	Total ASF	Comments
	Housing Services Administrative Offices			3,957	
320	Lobby / Reception / Waiting	1	537	537	
335	Support Staff Work Stations	5	120	600	
340	Conference Room	2	325	650	
320	Executive Offices	5	200	1,000	
320	Private Offices	4	150	600	
630/920	Staff Breakroom / Kitchen	1	120	120	
335	Supply / Support / Copy / Printer	1	250	250	
335	Administrative Storage	1	200	200	
	Support Spaces			0	
510	Mechanical Space	1	120	0	Note 1
920	Custodial Services	1	100	0	Noto 1
			120	0	Note 1
920	Housekeeping Closets	1	80	0	Note 1
920 335	Housekeeping Closets Public Restrooms	1 2	80	0 0 0	Note 1 Note 1
920 335 510	Housekeeping Closets Public Restrooms Telecommunications	1 2 1	80 250 120	0 0 0	Note 1 Note 1 Note 1 Note 1
920 335 510	Housekeeping Closets Public Restrooms Telecommunications Total ASF		80 250 120	0 0 0 3,957	Note 1 Note 1 Note 1 Note 1 Note 1

Note 1 Non assignable area per U.C. program standards
housing office expansion program model



The current housing office is located adjacent to Bannockburn Apartments on Canyon Crest Drive. Recent expansion of the student residence system has placed pressure on the current staff and as the system grows to accommodate the enrollment targets anticipated in the LRDP additional staff will be required.

The new facility will be located on the parking lot on the west side of the existing office. The building will be designed in such a way to share the existing courtyard on the north side of the existing office.

The new building will include public restrooms that can be accessed from either inside the building or from the courtyard.

bannockburn offices/retail program model

Space / Description	Quantity	ASF	Total ASF	Comments
Retail Spaces			71,500	
University Bookstore	1	50,000	50,000	
Food Venue / Restaurant	3	1,000	3,000	
Hair Salon	1	1,000	1,000	
Retail Vendors	4	1,000	4,000	
Coffee Bar / Convenience Store	1	1,500	1,500	
Computer Repair	1	2,000	2,000	
Unassigned Office Space	1	10,000	10,000	
Support Spaces			750	
Mechanical Space	1	120	0	Note 1
Public Restrooms (Male)	1	500	0	Note 1
Public Restrooms (Female)	1	750	0	Note 1
Telecommunications	1	120	0	Note 1
Loading Dock / Service Corridor	1	750	750	
Total ASE			72 250	
Unenclosed space (loading dock)	1	570	285	
Unenclosed space (Patio / café seating)	1	1,000	500	
Internal Net to Gross Factor (80%)			90,813	
	Space / Description Retail Spaces University Bookstore Food Venue / Restaurant Hair Salon Retail Vendors Coffee Bar / Convenience Store Computer Repair Unassigned Office Space Support Spaces Mechanical Space Public Restrooms (Male) Public Restrooms (Female) Telecommunications Loading Dock / Service Corridor Total ASF Unenclosed space (Patio / café seating) Internal Net to Gross Factor (80%)	Space / DescriptionQuantityRetail SpacesIUniversity Bookstore1Food Venue / Restaurant3Hair Salon1Retail Vendors4Coffee Bar / Convenience Store1Computer Repair1Unassigned Office Space1Support Spaces1Mechanical Space1Public Restrooms (Male)1Public Restrooms (Female)1Total ASF1Unenclosed space (loading dock)1Unenclosed space (Patio / café seating)1	Space / Description Quantity ASF Retail Spaces	Space / Description Quantity ASF Total ASF Retail Spaces 71,500 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 3,000 3,000 3,000 3,000 3,000 3,000 1 1,000

Note 1 Non assignable area per U.C. program standards

bannockburn offices/retail program model



The Bannockburn offices and retail program is intended to replace those services lost with the demolition of the existing Bannockburn residence and provide additional space for the relocation of the campus bookstore. A portion of the parking required for the facility will be located on site and a portion is anticipated to be provided in a proposed parking structure across the street. It is anticipated that the building will be three-stories and that a pedestrian bridge across Canyon Crest Drive will connect at the parking structure. Retail food service venues are expected to be located along the sidewalk on the West side of Canyon Crest Drive will take advantage of the pedestrian flow between campus and residences to the North.





First Floor











The program model for the new food service opportunities is designed to meet the diverse dining needs of residents and provide after-hours services, retail operations for the neighborhoods, campus community, teams, and others using the associated recreation fields. This plan recognizes a grill/deli at Glen Mor and dining facilities at Aberdeen-Inverness and Lothian residence halls. In addition, there are convenience stores and retail facilities associated with the West Campus development.

The Glasgow dining facility is proposed to be a two-phase project, coinciding with the associated residence hall construction. The first phase of the facility includes a main kitchen, serving platforms, a dining area serving 941 seats (total both phases), and retail food service. The service style will be "market place" in the main dining area and the retail food service will offer a dining alternative with outdoor seating and good proximity to the recreation fields.

Construction of the first phase of the dining facility will coincide with the second phase of the Dundee Residence Hall and will include construction of the main kitchen and some of the components of the platforms. The second phase of the dining facility will be implemented with the second phase of the residence halls. The phasing of the facility is a design as well as a programmatic issue and will need to be studied in massing and layout prior to finalizing which components occur in each phase.

		- ·	Phase 1	Phase 2			
Space #	Space / Description	Quantity	ASF	ASF	Total ASF	Occupancy	Comments
	Dining				16,756		
610	Marketplace Dining Area		4,116	6,160	10,276		
610	Private Dining Rooms	2	800	800	1,600		
610	Outdoor Marketplace Dining	1	800	2,080	2,880		
615	Lockers/Book Drop		2,000		2,000		
	Servery				7,345		
615	Serving Platforms	1	4,800	2,545	7,345		
	Production Kitchen				5,000		
615	Refrigerated Storage	1	800		800		
615	Frozen Storage	1	560		560		
615	Dry Storage	1	960		960		
615	Special Equipment Storage	1	300		300		
615	Table & Chair Storage	1	300		300		
615	Cold Food Preparation	1	960		960		
615	Hot Food Preparation	1	720		720		
615	Catering Staging	1	400		400		
	Warewashing				1,900		
615	Warewashing	1	1,500		1,500		
615	Pot Washing	1	300		300		
615	Chemical Storage	1	100		100		
	Dining Support				3,180		
615	Loading Dock (Compactor/Baler)	1	550		550		
615	Cardboard storage (at loading dock)	1	200		200		
615	Shipping & Receiving	1	200		200		
615	Cart Washing	1	120		120		
335	Staff Restroom & Lockers	1	700		700		
615	Janitor's Closet	1	120		120		
615	Custodial Equipment Room	1	150		150		
320	Director's Office	1	120		120		
320	Assistant Director's Office	1	120		120		
320	Receiving Office	1	120		120		
320	Food Production Office	1	120		120		
320	Food Production Manager's Office	1	300		300		
320	Student Manager's Office	1	240		240		
340	Conference Boom	1	120		120		













		- ·	Phase 1	Phase 2		-	-
Space #	Space / Description	Quantity	ASF	ASF	Total ASF	Occupancy	Comments
	Dining Offices	. <u> </u>			2,890		
610	Manager's Office	1	120		120		
610	General Office for 5 Work Stations	1	750		750		
610	Storage	1	300		300		
610	Dining Administrative Assistant Office	1	120		120		
610	Unit Manager Office (2 Work Stations)	1	300		300		
610	Catering Sales (2 Workstations)	1	300		300		
610	Catering Manager	1	120		120		
610	Cash Counting Office	1	120		120		
610	Cash Handler Office	1	400		400		
610	Cash Supervisor Office	1	120		120		
610	General Office	2	120		240		
	Residence Life Offices	· ·			4,760		
610	Service Desk - Mail & Equipment	1	150		150		
610	Service Desk - Administration	1	150		150		
610	Lounge Seating	1	400	600	1,000		
610	RHA Staff Workstation Area	1	420		420		
610	RHA Offices - Private	2	120		240		
610	Residence Life Coordinator's Office	2	140		280		
610	RHA Storage	1	120		120		
615	Game Room	1	2,400		2,400		
	Total ASF	·		·	41,831		
	Program Efficiency Ratio @ 70%						
	1st and 2nd Floor Dining Center				59,759		
	Basement Central Mechanical Space	1	1,800		61,559		

retail/deli program model

			Phase 2	Phase 3			
Space #	Space / Description	Quantity	ASF	ASF	Total ASF	Occupancy	Comments
	Convenience Store				2,355		
640	Dry Goods Merchandising	1		630	630		
640	Refrigerated Goods Merchandising	1		500	500		
920	Office	1		120	120		
615	Pool Storage	1		300	300		
615	Pantry	1		300	300		
615	Receiving	1		150	150		
625	Recreation Storage	1		355	355		
	Retail Deli				2,450		
610	Seating and Circulation - Indoor	1		640	640		
610	Seating and Circulation - Outdoor	1		640	640		
615	Cash Counting Room	1		70	70		
615	Storage and Support	1		600	600		
615	Production / Servicing	11		300	300		
615	Queuing	1		200	200		
	Total ASF				4,805		
	Program Efficiency Ratio @ 70%						
	Target GSF				6,864		

retail/deli program model



Fist Floor

The retail/deli program was developed during the Detail Planning Program (DPP) phase for the Dundee residence hall community. It shall be centrally located adjacent to the recreation fields and conference facility. The small community pool is located with the retail/deli to provide a community amenity. It is intended to provide extended service hours to accommodate recreation program activities that occur up to 11:00 p.m. on week nights.

emporium program model

Space #	Space / Description	Quantity	ASF	Total ASF	Comments
	Emporium			2,900	
335	Entry vestibule	1	100	100	
615	Cashiering & Customer Queuing	1	250	250	
615	Coffee Platform & Customer Queuing	1	360	360	
615	Prepared Food Platform & Customer Queuing	1	360	360	
640	Retail Grocery Display Area	1	500	500	
640	Refrigerated Merchandiser	1	250	250	
610	Seating	1	1,080	1,080	
610	Outdoor Seating	1	800	400	Note: Not included in the Total ASF
	Support Spaces			910	
615	Food Platform Support	1	300	300	
615	Storage	1	240	240	
920	Office	1	100	100	
615	Cash Room	1	60	60	
615	Janitor's closet	1	50	50	
610	Employee support	1	160	160	
	Total ASF			3,810	
	Internal Net to Gross Factor (10%)	· ·		381	
	Target GSF			4,191	



Site Plan

emporium program model



conference services program model

Space #	Space / Description	Quantity	ASF	Total ASF	Comments
	Conference Services			1,710	
300	Administrative Assistant	1	120	120	
335	Service Desk - Mail & Equipment	1	150	150	
320	Conference Manager	1	120	120	
320	Sales Manager	1	120	120	
320	Conference Coordinator	2	120	240	
320	Financial Analyst	1	120	120	
335	Waiting/Reception	1	120	120	
320	Student Staff (20) Work Area	1	720	720	
	Meeting / Academic / Programs			19,150	
340	Multi-Purpose (Sub-dividable)	1	7,500	7,500	
345	Pre-Function Area	1	3,750	3,750	
615	Catering Pantry	1	1,500	1,500	
345	AV Equipment Room	1	200	200	
345	Table and Chair Storage	1	750	750	
340	Seminar/Board Room	1	500	500	
340	Meeting Room (250 seats)	1	1,500	1,500	
340	Meeting Room (200 seats)	1	1,200	1,200	
340	Meeting Room (150 seats)	1	900	900	
340	Meeting Room (100 seats)	1	600	600	
340	Meeting Room (75 seats)	1	450	450	
340	Meeting Room (50 seats)	1	300	300	
	Support Spaces				
510	Mechanical/Electrical Space	1	0	0	Note 1
335	Public Restrooms	4	150	0	Note 1
920	Housekeeping/Custodial Storage	1	120	0	Note 1
920	Trash/Recycle Room	1	120	0	Note 1
510	Telecommunications Closet	2	120	0	Note 1
	Total ASF			20,860	
	Program Efficiency Ratio @ 60%				
	Target GSF			34,767	



Site Plan

Note: 1 Non assignable area per U.C. program standards

conference services hall program model



First Floor



Second Floor

The conference services program provides expanded capability for UCR to accommodate the current and potential demand from outside groups for conference space. The facility will provide banquet seating for 500, lecture seating for 750, and classroom/breakout space for between 50 and 250 persons. Its location adjacent to the Glasgow Dining Facility provides appropriate proximity for catering support.

veitch student activity center program model

Space #	Space / Description	Quantity	ASF	Total ASF	Comments
	Public / Common Areas			900	
335	Vestibule	1	400	400	
335	Lobby, Reception	1	500	500	
335	Public Restrooms (Male)	1	600	0	
335	Public Restrooms (Female)	1	1,200	0	
	Program Event Spaces			30,300	
340	Large Multi-Purpose Room (Sub-dividable)	1	21,600	21,600	Garage doors open to the Glen
340	Medium sized Multi-Purpose Room	3	1,800	5,400	
630	Green Room Suite with Bathroom	1	200	200	
335	Event Storage Room	1	2,500	2,500	
335	Technical Equipment Room	1	600	600	
	Administrative Office Area			400	
320	Office	2	140	280	
335	Administrative Storage	1	120	120	
	Student Health and Counseling Center			11,222	
320	Student Health Center	1	8,341	8,341	
320	Counseling Center	1	2,881	2,881	
	Food Service			1,950	
610/615	Convenience Store / Cafe	1	1,200	1,200	
985	Catering Pantry	1	750	750	
	Support Spaces			2,550	
510	Mechanical Space	1	120	0	Note 1
920	Custodial Services	1	120	0	Note 1
920	Housekeeping Closets	1	80	0	Note 1
510	Telecommunications	1	120	0	Note 1
345	Portable Stage Storage	1	300	300	
615	Loading Dock / Service Corridor	1	1,500	1,500	
345	Table and Chair Storage	1	750	750	
	Total ASF		·	47,322	
	Unenclosed space (Patio on the Glen)	1	3,000	1,500	
	Internal Net to Gross Factor (80%)			60,653	



Site Plan

Note 1 Non assignable area per U.C. program standards

veitch student activity center program model



<u>LEGEND</u>

- 1 Student Health
- 2 Counseling Center
- 3 Convenience Store/Cafe
- 4 Women's Restroom
- 5 Men's Restroom
- 6 Medium Multi-Purpose Room
- 7 Lobby/Reception
- 8 Office
- 9 Vestibule
- 10 Large Multi-Purpose Room
- 11 Technical Equipment
- 12 Mechanical
- 13 Green Room
- 14 Support
- 15 Catering Pantry
- 16 Loading/Service
- 17 Storage

Main Level – Second Floor / at Grade

The Veitch site is the nexus of paths leading from the campus to the majority of the existing and proposed residence halls and creates a desirable location for a regional multi-purpose student services building. The site currently houses student health services, the counseling center and career services, and it is recommended that multi-purpose student services functions/programs be incorporated into the new Veitch facility with a retail deli and can incorporate a new student health and counseling center. The student services and deli will be located at the main level with a multi-purpose room opening into the large lawn space to the west. The student health and counseling centers will occupy the lower level of the building that takes advantage of the convenient location of the site and provides the privacy desired by those programs.

The Veitch site is a lush and inviting natural environment. The placement of a new building within this site should be handled sensitively so that the building takes advantage of the landscape with the paths and connections maintaining their ambiance as nature walks. Additionally, the building should create strong interior/exterior relationships that emphasize and celebrate visual and physical connections between the landscape and the civic spaces within the building.

Other key site development features shall:

- preserve natural surroundings.
- preserve emergency vehicle access and parking for students who need to be driven to the student services (e.g., health center).
- provide well-screened services and service truck access.

maintenance program model

Parking Deck Maintenance Lot 22

Space #	Space / Description	Quantity	ASF	Total ASF
	Maintenance Administrative	·		2,860
320	Staff Offices	5	120	600
320	Work Room / Shared office	1	500	500
340	Conference Room	1	800	800
335	Staff Breakroom and Kitchenette	1	140	140
335	Staff Restrooms	2	150	300
335	Lockers	1	150	150
615	Shipping and Receiving Desk	1	120	120
985	Laundry Room	1	250	250
	Maintenance Warehouse and Shops			6,300
610	Warehouse and Shops	1	4,000	4,000
610	Emergency Shower/eye wash station	1	100	100
610	Shop Space	1	500	500
610	Storage	1	1,200	1,200
615	Loading Dock	1	500	500
610	Electric Vehicle Battery Storage	1	100	100
	Maintenance Exterior Spaces			
	Charging Stations for 17 electric powered carts			
	Parking for 10 Grounds and ride-on equipment			
	Parking for 20 Vehicles			
	Enclosure for 4, 4-cubic yard dumpsters			
	Enclosure for 2, 4-cubic yard recycling dumpsters			
	Enclosure for 2, 40-cubic yard green waste dumpsters			
	Total ASF			9,160
	Internal Net to Gross Factor (80%)			11,450

Footnote: Refrigeration Shops, Dining Equipment Shop, and Carpentry Shop square footages are included in 610 - Warehouse and Shops

West Campus Maintenance Facility

Space #	Space / Description	Quantity	ASF	Total ASF
	Maintenance and Grounds Administrative			980
320	Staff Offices	2	120	240
335	Staff Breakroom and Kitchenette	1	200	200
335	Staff Restrooms	2	150	300
335	Lockers	1	240	240
	Maintenance Warehouse and Shops	· ·		1,440
525	Grounds Shop	1	150	150
525	Maintenance Shop	1	150	150
525	Grounds Equipment Storage	1	900	900
615	Recreation Field Storage Room	1	240	240
	Support Space			0
	Total ASF			2,420
	Internal Net to Gross Factor (75%)		·	3,227

maintenance program model



East Campus Maintenance Facility at First Floor of Parking Deck

West Campus Maintenance Facility at Family Housing

UCR's Housing Operation staff developed the model for the Maintenance and Operations programs. This facility is to be located with a proposed parking structure on Parking Lot 22 on the East Campus. This facility replaces existing buildings in the current Canyon Crest site (offices, warehouse, grounds shed, maintenance shop, and dumpsters) while adding space to serve the additional housing proposed in the plan.

A smaller, 3,227 sf facility, specifically for grounds and equipment storage, will be located on West Campus in association with Skye Family Housing.

parking garage program model



First Floor



Typical Floor

parking garage program model



During the Canyon Crest DPP process a preliminary study was conducted to evaluate the potential of providing a parking garage on the east side of Aberdeen-Inverness residence halls on the current site of Lot 22. The garage program includes:

- Approximately 500 cars including the quantity currently provided in Lot 22.
- A new Maintenance shop on the first floor to replace the current maintenance shop that will be lost at Canyon Crest.

recreation program model



recreation program model



In recent years, the recreation program at UCR has experienced growth exceeding the general student population growth. In the academic years 2005-06 and 2006-07, the recreation program saw a growth of 35.8 percent and 10.8 percent respectively. It is anticipated that the growth of the program will level off to a minimum of 6.5 percent per year, more commensurate with campus enrollment growth.

As of the 2007-08 academic year, there were 30 teams (five leagues of six teams) on each of four nights (Monday–Thursday) for a total of 120 teams that use the three fields at Glen Mor. In order to meet demand, recreation programming requires league play four nights per week (Monday–Thursday) from 5 p.m. to 12 a.m. There is a shareduse facility located at the southwest corner of Canyon Crest Drive and Blaine Street consisting of two softball fields jointly owned by the University and the City of Riverside. The University owns the right to use these fields Monday, Tuesday, Thursday, and Friday.

The Strategic Plan for Student Housing is consistent with the 2005 LRDP, and establishes three recreation program expansion sites within the new residential neighborhoods. The LRDP land area targets for each of these areas include:

- 4.6 acres at the Glen Mor site (completed in 2007)
- 11.3 acres at the Canyon Crest site
- 9.6 acres, including a new student recreation center of 55,000 gsf on the West Campus

The Canyon Crest site will accommodate five playing fields. The Glen Mor site provides three playing fields (completed 2007). The West Campus site will accommodate two softball fields and four playing fields.

The site layouts included in The Strategic Plan for Student Housing provide a concept layout for the fields; however, the final layouts may vary. The program for recreation establishes a minimum playing field of 55 yards by 100 yards, with an additional buffer area of 10 yards (minimum) around the perimeter of each field for intramural sports to accommodate soccer league play.

The recreation fields can be used for numerous activities such as housing activity programming, summer camps, athletics, and formal recreation programs.

The recreation center on the West Campus will include a smaller scale version of the recreation center on East Campus and will include community amenities for the family housing residents.

CAMPUS HOUSING STRATEGIC PLAN



The Strategic Plan for Student Housing meets the long-range objectives of the University's LRDP and provides the physical framework to balance the mix of human activity, space needs, and connectivity to the campus and the surrounding region.

In this plan each neighborhood represents the graphical translation of the Ideal Residential Model (building and exterior space program) and Principles of Planning. The concepts test the physical opportunities and the capacities of each site.

There are five identifiable neighborhoods, as well as a Student Activities/Student Services facility on the existing Veitch site, to serve existing and new residential neighborhoods:

East Campus

Canyon Crest – Residence halls, group housing, dining and conference facility Glen Mor – Apartment-style housing

Bannockburn – Apartment-style housing, housing services expansion, and offices/retail/services

Plaza – Apartment-style housing

Falkirk – Apartment-style housing

Veitch – Student activities/services

West Campus

Skye Family Housing – Apartment-style housing, child development center and recreation center

West Campus Apartments – Apartment-style housing

Medical School Housing – Apartment-style housing

The recommended neighborhood configurations are the product of rigorous investigation and reviews by the University Planning Committee and a variety of community and public forums.



neighborhood recommendations

	EAST CAMPUS			WEST CAMPUS
Site	Canyon Crest	Glen Mor / Veitch / A-I	Bannockburn / Plaza / Falkirk	West Campus
	8 Total Phases	8 Total Phases	2 Phases	9 Total Phases
Housing Dining/Student	Residence Halls3,000 Beds3, 3.5 and 4-Stories1:4 Parking Space/Student Ratio803 Parking Spaces ³ Group Housing336 Beds3-Stories1:2 Parking Space/Student Ratio208 Parking Spaces ³ Family Housing268 Units DemolishedCommons	Apartments 800 Beds 3, 3.5 and 4-Stories 1:2 Parking Space/Student Ratio Parking Structure at A-I 500 Cars ⁴ Parking Structure at Glen Mor 600 Cars ⁴ Aberdeen-Inverness	Apartments448 Beds at Bannockburn1,040 Beds at Falkirk4-Stories1:2 Parking Space/Student Ratio400 Parking Spaces at Bannockburn'600 Parking Spaces at Falkirk'375 Beds Demolished at Bannockburn450 Beds Demolished at FalkirkHousing Offices Expansion	Apartments2,000+ Beds²4-Stories1:2 Parking Space/Student Radio1,172 Parking Spaces²Family Housing708 Units2-Stories1.5:1 Parking/Space/Unit Ratio1,062 Parking Spaces²Medical Student Housing300 BedsRetail/Convenience Store
Services	Dining – 941 Seats Retail Food Service Deli/Convenience Store Radio Station Demolished Child Care Center (Existing)	Emporium Retail Store Renovated 1st Floor Commons/RSO Veitch Deli/Convenience Store Health Services Counseling Center	60 Parking Spaces	Retail/Student Services Child Development Centers (2@144 students each)
Conference Services	Conference Services Center	2 Intramural Fields (Evisting)	1 Pool/Club House (Falkirk)	Pagrantian Cantor
Kecreation	1 Softball Field 1 Pool) maanalai nelus (Enisting)		50 Parking Spaces 5 Intramural Fields 2 Softball Fields 2 Pools/Community Centers
Support	Maintenance Building			Grounds Maintenance Shop
Notes	¹ Parking distributes among the first floor of some build ² Provided in both surface lots, parallel parking on the s	lings, on street and in surface lots. street and in lots at the recreation fields.		

³ Parking distributed in surface lots and parking structure.

⁴ Accommodates remainder of student parking, recreation parking, and replacement of existing spaces.



East Campus Sites

campus housing strategic plan





Glen Mor Site



Canyon Crest Site

The East Campus is a residential and pedestrian friendly environment. The residential areas are distinct neighborhoods, each having its own social and physical identity. The existing landscape and network of paths and walks knit the neighborhoods together and create visual and physical connections to each other and to the broader campus community.

There are three proposed new neighborhoods on the East Campus plus the enhancement of the Veitch Site as a student services area serving all neighborhoods.

Canyon Crest

Dundee, Edinburgh, and Lennox residence halls, and the group houses compose the new neighborhood for undergraduates and upperclassmen.

Glen Mor Phase 2

New neighborhood for upperclassmen and graduates.

Bannockburn

Reconstructed neighborhood for upperclassmen and graduates.

Falkirk

Reconstructed neighborhood for upperclassmen and graduates.

Veitch

Regional student activities and student services center.

The development of these neighborhoods and the primary circulation routes are consistent with the recommendation of UCR's 2005 Long Range Development Plan. Residential parking will be accommodated in each neighborhood.



Proposed Canyon Crest Site Development Concept

EAST CAMPUS canyon crest



Activity Spine Heading to Neighborhood Center

The Canyon Crest neighborhood achieves its identity and organization through a series of clustered courtyards, accommodating residence halls, small group houses, food service, administrative, community spaces, and recreation fields. The neighborhood commons and primary civic space are geographically centered in the neighborhood and provide a focal point for the neighborhood and a physical and visual link from Aberdeen Drive, a primary neighborhood entry and view corridor.

The courtyard composition is intentionally configured in a density higher than the density of the existing residence hall neighborhoods, providing both social and environmental response benefits. The intimate courtyards provide the opportunity for a heightened sense of community, a unique neighborhood identity, and a pleasant functional relationship between interior and exterior spaces. The courtyards are scaled to be "self-shading," and open-ended to encourage air movement within and between courtyards. The courtyards have the opportunity to provide a significant degree of identity for the residents within the neighborhood, through size, scale/height, and variety in the landscape material. In addition to the courtyards, the neighborhood has a defined recreation zone serving the residents, the adjacent recreation complex, and the campus community.

As referenced in the group housing program model, the houses and their associated open spaces create the opportunity to bring together various clubs and organizations. The scale of the buildings provide a transition between the larger residence hall buildings and the lesser scale buildings on the north side of Blaine Street.

east campus canyon crest

The Group Houses are organized around an activity space with pedestrian paths and yard spaces that weave the residential, social spaces, and the primary community spaces into a comfortable low-scale urban village.

Other key site development features:

- secure edge (architectural streetscape along Blaine Street)
- future 1,500-2,000 car parking garage for commuters and a portion of residential users at Blaine and Canyon Crest
- internal vehicular circulation with access from Blaine Street and Watkins Drive per LRDP
- site entry off of Watkins accommodates child development center expansion
- paths create pedestrian connection between off-campus neighborhoods and campus
- recreation fields serve intramural sports and summer conferences
- dining, retail, and restrooms proximate to recreation fields
- pool and community spaces encourage opportunity for 24hour activity
- clearly defined phasing options



View North to Market Place Dining Center from Intersection of Aberdeen Drive and Linden Street

east campus glen mor



Glen Mor Phase 2

The Glen Mor neighborhood achieves its identity and organization through its response to open space, primarily the recreation fields and the naturalistic features of the site.

Phase 1 of the Glen Mor apartment neighborhood and its retail grill and community spaces opened in the fall of 2007. The buildings occupy the southern edge of the site and its three recreation fields are located along the north edge along Watkins Drive and Valencia Hill Drive. A landscape buffer is provided between the recreation fields and the adjacent private residential neighborhood along Valencia Hill Drive.

On the south edge of the site, the ridge and the arroyo create a unique setting for Phase 2, with buildings that step along the ridge in a "hill-town" fashion, complementing, conceptually, the narrow passages in Pentland Hills. Glen Mor Phase 2 will be connected to Phase 1 via two footbridges that cross the arroyo.

The arroyo will remain undisturbed, reflecting the natural environment.

The neighborhood pedestrian paths complement the existing paths and connections from Lothian and Pentland Hills and to the campus. The grade differential from the ridge to the road, along the southernmost edge, provides a natural location for a parking structure. It is recommended that the upper level deck be designed as an extension of the green space or as additional recreation fields.

east campus glen mor





Glen Mor Phase 1

Other key site development features:

- focus view from housing back to Carillon Tower on campus
- 100-foot buffer along Valencia (berms, evergreen trees, shade trees, groundcovers)
- grill and convenience store to serve all phases of Glen Mor and Pentland Hills neighborhoods provided in fall of 2007
- Phase 2 residences on the ridge and their community spaces overlook the arroyo and boast views of surrounding mountains



Glen Mor Phase 1

east campus veitch





The Veitch site is the nexus of paths leading from the campus to the majority of the existing and proposed residence halls. This creates a desirable location for a regional multi-purpose student activities and student services building. The site currently houses student health services, the counseling center and career services. It is recommended that student health and counseling programs be incorporated into the new Veitch facility at the lower level of the building to insure privacy for those entering the building. It is anticipated that career services will be relocated to another part of campus. The student activities functions/programs will occupy the main floor level, with the large student activities room opening via large doors onto the existing lawn to the west. A retail deli/convenience store will be located on the main level to provide retail food service before and after special functions and to serve students moving between the core campus and the adjacent residence halls.

The Veitch site is a lush and inviting natural environment. The placement of the new building within this site should be handled sensitively so that the buildings don't dominate the landscape and the paths and connections maintain their ambiance as nature walks. Additionally, the building should create strong interior/exterior relationships that emphasize and celebrate visual and physical connections between the landscape and the civic spaces within the building.

Other key site development features:

- preserve natural surroundings
- pedestrian bridge connecting the building to the campus
- preserve emergency vehicle access and parking for students who need to be driven to the student services (e.g., health center)
- · provide well-screened service access






The redevelopment of the Bannockburn and Falkirk sites is driven predominately by issues of obsolescence and the need to create a more easily maintained and suitable living environment for students. Additionally, the capacity of the site is directly related to the parking capacity.

The site plan defines a new public identity for Bannockburn with a strong retail and services edge along Canyon Crest Drive, with the apartments utilizing a podium parking model. Community spaces for Bannockburn and Falkirk will be located on the plaza level of the podium. It is anticipated that Bannockburn residents will share the pool located at Plaza Apartments. The pool club house would need to be renovated/expanded. The Falkirk site will house its own pool and club house.

The buildings of both communities are organized to provide a residential scale yet maximize the density of the housing. To accomplish this, as referenced in the apartment program model, the apartments and their associated courtyards are built over one level of parking. This concept provides the desired number of parking spaces proximate to the residents, yet reinforces the neighborhood's pedestrian environment of courtyards and paths. The elevated courtyards are scaled to be "self-shading," and openended to encourage air movement within and between courtyards. The courtyards also have the opportunity to provide a significant degree of identity for the residents within the neighborhood, through size, scale/height, and variety in the landscape material.

Key site development features:

- new construction of Bannockburn accommodates 448 students (vs. 375 in current configuration)
- new construction of Falkirk accommodates 1,040 students (vs. 450 in current configuration)
- Bannockburn site includes 90,000 gsf of retail/office/services (three-story) with parking for 60 cars
- central pedestrian path connects apartment buildings and adjacent off-site apartments to retail and services on Canyon Crest Drive
- · green space area available for all apartment residents
- additional surface parking on the north, south and west sides of the site
- Bannockburn creates a strong linkage to existing Plaza Apartments

Shown on the following pages are the planning principles that will guide development on the East Campus. The principles were discussed at length on page 11 in the section titled, "Ideal Residential Community" and include:

- Community and Identity
- Edges and Centers
- Connections and Destinations

east campus planning principles

community + identity



Community + Identity

east campus planning principles

edges + centers



Edges + Centers

east campus planning principles

connections + destinations



Connections + Destinations



West Campus – Proposed Development Scheme for Skye Family Housing, West Campus Apartments, and Medical Student Apartments

west campus







UCR's 2005 Long Range Development Plan identifies the West Campus as the primary expansion opportunity for academic, residential, and recreational growth. This Strategic Plan for Student Housing refines those strategies that pertain to the residential and student services planning and phasing concepts for West Campus.

There are two primary residential neighborhoods proposed for West Campus, the Skye neighborhood west of Iowa Avenue for family housing, targeting students with dependents, and an apartment neighborhood east of Iowa Avenue for graduate and upper division students. The neighborhood east of Iowa develops strong pedestrian and student service connections to the West Campus and academic core.

The development of these neighborhoods, densities, and the primary circulation routes are consistent with the recommendations of UCR's 2005 Long Range Development Plan. This document places emphasis on the contiguous zoning of the family area as self inclusive with recreation, community centers, and child development centers exclusively to the west of Iowa Avenue to avoid the need for families with young children to cross major vehicular routes.

Family Housing

The Skye family housing neighborhood is organized around neighborhood parks that will provide open play space and intentionally will minimize through traffic. The parks will define the residential zone and will be used by the residential community for informal as well as special neighborhood events.



Proposed Skye Site Development Concept

west campus



In addition to townhouses, two- and three-bedroom apartments will define the neighborhood blocks in the family housing zone. Both the townhouses and the apartments will have defined "front doors" facing the parks or the streets, with backyards/tot lot space, to create a secure and welcoming environment. The family housing units shall be two stories in height. There will be a combination of street parking and on-site parking in accordance with the LRDP.

Graduate and Upper Division Students

The neighborhood east of Iowa Avenue is organized in urban blocks utilizing elevated courtyards and housing, as referenced in the apartment program model. The apartment blocks are organized around central lawns to extend the campus fabric and to create logical and functional hierarchy in open spaces and connections to the academic and student services zones.

The apartment blocks have a retail and student services spine as a central organizing element. This spine functionally links the family housing neighborhood, the apartments, and the academic zone.

Other key site development features:

- 55,000 sfrecreation center with swimming pool and intramural fields centrally located to the family and apartment housing, with a strong link to the West Campus academic core
- two child development centers accessible by neighborhood walks within the family housing neighborhood (approx. 144 children each)
- phasing strategy allows each phase of development to be complete (if total plan is not implemented for several years)
- future campus support/physical plant area located with access from Chicago Avenue

Shown on the following pages are the planning principles that will guide development on the East Campus. The principles were discussed at length on page 11 in the section titled, "Ideal Residential Community" and include:

- Community and Identity
- Edges and Centers
- Connections and Destinations

west campus planning principles community + identity



Community + Identity

west campus

planning principles

edges + centers



Edges + Centers

west campus planning principles connections + destinations



Connections + *Destinations*

targeted 2008 construction costs

Group Housing\$178	/gsf
Residence Halls\$210	/gsf
Apartments\$178	/gsf
Apartments over Parking*\$248	/gsf
Family Housing Apartments\$132	/gsf
Family Housing Townhouses \$142	/gsf
Glasgow Dining/Retail**\$408	/gsf
Conference Center \$295	/gsf
Retail/Convenience Stores**\$408	/gsf
Veitch Student Services\$295	/gsf
Child Development Center \$203	/gsf
Community Building\$203	/gsf
Offices/Services \$200	/gsf
Recreation Building**\$220	/gsf
Recreation Fields\$1	2/sf
Additive premium for piles/special foundation needs on the	
Glen Mor Phase 2 Site\$	7/sf

* Podium level parking at \$70/sf and housing level at \$178/sf.

** Equipment costs are not included in the \$/gsf. Food service equipment is included with total project costs on the following pages.

The costs (left) represent construction dollar values for 2008. The implementation plans that follow are total project costs, which represent an itemized list of related project costs of building, site, parking, utilities, and streets. The cost per square foot data is drawn from benchmarking projects of similar scale and detail at other campuses, from the RS Means Cost data for 2008, a Schedule of Values for the recently completed Phase 1 of Glen Mor Housing, and from budget plans in DPPs for Canyon Crest, West Campus, and Arroyo. Project cost escalation is calculated at 5% per year from 2008 until 2026.

2008 Unit Costs for	Site Improvements	Site Utilities
Aberdeen-Inverness	\$ 5	\$ 2
Canyon Crest	\$ 10	\$ 4
Glen Mor	\$ 5	\$ 2
Veitch	\$ 5	\$ 2
Campus Apartments	\$ 10	\$ 4
West Campus	\$ 12	\$ 5
Podium Parking	\$ 52	
Building Demolition (Bannockburn, Falkirk, Veitch	\$9 I)	
Building Demolition (Canyon Crest)	\$12,852 /each	
Site Demolition	\$ 0.50	
Surface Parking	\$ 12	

PHASING AND IMPLEMENTATION PLAN

To develop budget projections for the Strategic Plan for Student Housing, the Planning Team utilized pricing data from the Canyon Crest DPP, West Campus Family Housing DPP, and the Glen Mor Phase I Schedule of Values.

A key factor in the establishment of budgets for any project is the desired quality level and the proposed delivery methodology. Due to the variety of housing types and possible construction and delivery methodologies, a wide range of costs are discussed for the larger project types.

The figures to the left represent the baseline assumptions for construction cost per square foot in 2008 dollars, based on the above criteria.

The construction delivery methodologies have not yet been determined by the University. Traditional delivery, as well as alternate and thirdparty development, have been considered; however, recent discussions question the financial advantages of third-party approaches, if the debt remains on the University's balance sheet. Additionally, the University desires to manage the facilities as opposed to having an independent property manager typical to many developer models. The delivery methodology should be considered on a per project / per neighborhood basis, and the operations and quality of construction features should be assessed along with the financial advantages. It is recommended that the University consider alternate delivery methods, especially to the West Campus, particularly the family housing. At the end of this section is a brief definition of construction delivery methodologies.

The sections that follow provide an overview of phasing and costs on a per project basis in both a comprehensive phasing plan and a phasing plan per neighborhood. The comprehensive phasing plan is presented in a series of three-year cycles commencing in 2008 and tracking the LRDP's targeted campus enrollment projects through 2025-26. The years and capacities shown in this phasing and implementation plan represent the earliest targeted completion dates based on the assumptions of this report. Under the proposed plan, the University's goal of achieving 50 percent resident population can be accomplished by 2025-26. The phases of this plan are flexible and may be accelerated or postponed to adjust to meet the changing needs of the University and in response to the schedules and capacities realized in the off-campus housing initiatives or other institutional forces.



comprehensive phasing plan cycle 1 2009 - 2011

	2009				2010				2011						
	Capao	citv		Program	Total Cost	Capa	citv		Program	Total Cost	Capac	itv		Program	Total Cost
	RH	A	FH	- 3		RH	A	FH	- 9		RH	A	FH	- 3	
EXISTING															
Housing (exclusive of overflow beds)							0								
EAST CAMPUS															
Aberdeen-Inverness Benovation	0					0				2 880 701	0				
Emporium									AI Emporium	_,,					
Commons				Wing A off lin	e for renovation				Community S	pace				Wing B off line	e for renovation
Faculty/Staff Housing				0					,					0	
Canvon Crest					0					1.277.407					0
Housing	0	0	0		-	0	0	-50		, , -	0	0	0		
Dining			-									-	-		
Recreation Fields															
Parking Deck/ Maintenance Building		-													
Other															
Glen Mor					0					0					0
Housing	0	0		0		0	0	0			0	0	0		
Dining - "Grill" & Conv. Store															
Recreation Fields															
Garage															
Veitch					0					349,965					0
Veitch Student Services	0	0		0		0	0	0	off line		0	0	0	off line	
Health / Counseling Services															
Campus Apartments					5,954					1,741,648					0
Bannockburn									Housing Offic	e Expansion					
Falkirk															
Plaza															
Potential Acquisition		270		Purchased											
WEAT AANDUA															
WEST CAMPUS					-										440 750 004
west Campus				0	0		0	0		0		0	000	Dharas 4 East	118,753,001
Housing		0		0			0	0				0	368	Phases 1 Fam	nily Housing
Day Care (144 child capacity / phase)														Complete	
Betail / Convenience Store														Complete	
Becreation Fields														Complete	
Becreation Building														Oompiete	
	Capacit	y		Total	Total Cost	Capacit	y		Total	Total Cost	Capacity			Total	Total Cost
	RH	A	FH			RH	A	FH			RH	A	FH		
Totals / Year	0	270	0	270	5,954	0	0	-50	-50	6,249,721	0	0	368	368	118,753,001
Cumulative Totals	2,920	765	268	3,953		2,920	765	218	3,903		2,920	765	586	4,271	
Enrollment Projections / Year				18,050					18,849					19,651	
Transfers				1,200					1,250					1,300	
Graduate Students				2,195					2,366					2,564	
Total % Resident Population				21.90%					20.71%					21.73%	



comprehensive phasing plan cycle 2 2012 - 2014

	2012			2013				2014							
	Cap	acity		Program	Total Cost	Cap	acity		Program	Total Cost	Capa	acity		Program	Total Cost
	RH	A	FH			RH	A	FH	i logiani		RH	A	FH	. regiani	
EXISTING															
Housing (exclusive of overflow beds)															
FAST CAMPUS															
Aberdeen-Inverness Benovation	0				845 208	0					0				3 393 936
Emporium					010,200										0,000,000
Commons				Wing B Con	munity Space				RSO off line f	for renovation				RSO and put	blic restroom expansion
Faculty/Staff Housing				3	, .,									Faculty/Staff	Housing
Convon Croot					65 604 600					0					140.071.402
	600	0	147	Dundoo Pho	00,004,099		0	0		0	026	0	41	Dundoo Pho	142,971,403
Diping	600	0	-147	Dunuee File	ise i complete		0	0			930	0	-41	Phase 1 com	se 27 Group Housing
Bocroation Fields														Complete	ipiele and Dell
Parking Deck/ Maintenance Building														Complete	
Glen Mor					0					0					0
Housing	-506	506	0	RH to Apt	Ŭ	0	0	0		0	0	0	0		Ū.
Dining - "Grill" & Conv. Store			-				•	-				-	-		
Recreation Fields															
Garage															
Veitch					28,793,371					0					0
Veitch Student Services	0	0		0 Complete		0	0	0			0	0	0		
Health / Counseling Services				Complete											
Campus Apartments					2,701,989					0					111,270,323
Bannockburn		-375		Demolition								448		Office/Retail	and Apartments
Falkirk															
Plaza															
Potential Acquisition															
WEST CAMPUS															
West Compus					0					105 100 200					69 107 066
Housing		0	0		0		0	340	Phase 2 Fam	nily Housing		500	0	Phase 1 Ped	ium Apartmonte
Day Care (144 child capacity / phase)		0	0				0	340	Complete	illy Housing		500	0	Thase TT Ou	
Community Center									Complete						
Retail / Convenience Store															
Recreation Fields															
Recreation Building															
· · · · · · · · · · · · · · · · · · ·															
	Capa	city		Total	Total Cost	Capad	city		Total	Total Cost	Capac	ity		Total	Total Cost
	RH	Α	FH			RH	Α	FH			RH	А	FH		
Totals / Year	94	131	-147	78	97,945,267	0	0	340	340	105,180,388	936	948	-41	1,843	325,833,628
Cumulative Totals	3,014	896	439	4,349		3,014	896	779	4,689		3,950	1,844	738	6,532	
Enrollment Projections / Year				20,174					20,856					21,413	
Transfers				1,160					1,220						
Graduate Students				2,788					3,040					00 500/	
Total % Resident Population				21.56%					22.48%					30.50%	



comprehensive phasing plan cycle 3 2015 - 2017

	2015			2016				2017							
	Capa	acity		Program	Total Cost	Capa	acitv		Program	Total Cost	Capa	acitv		Program	Total Cost
	RH	A	FH			RH	A	FH			RH	A	FH		
EXISTING															
Housing (exclusive of overflow beds)															
••••••••••••••••••••••••••••••••••••••															
EAST CAMPUS															
Aberdeen-Inverness Renovation	0				0	0				0	0				0
Emporium															
Commons															
Faculty/Staff Housing															
Canvon Crest					76 545					124 795 044					0
Housing	0	0	0		70,010	600	0	-30	Edinburah E	Phase 1	0	0	0		•
Dining		0	•				0	00	Lamburght	11000 1		0	•		
Becreation Fields															
Parking Deck/ Maintenance Building									Maintenanc	e Warehouse/Shop					
Other									Parking for	500 Cars					
Glen Mor					0					0					0
Housing	0	0	0			0	0	0			0	0	0		
Dining - "Grill" & Conv. Store		-					-								
Recreation Fields															
Garage															
Veitch					0					0					0
Veitch Student Services	0	0	0			0	0	0			0	0	0		
Health / Counseling Services															
Campus Apartments					0					0					0
Bannockburn					0					0					0
Falkirk															
Plaza															
Potential Acquisition															
WEST CAMPLIS															
West Campus					24 200 144					72 072 004					0
Housing		0	0		24,399,144		500	0	Bhasa 2 Ba	/3,0/2,994		0	0		0
Day Care (144 child capacity / phase)		0	0				500	0	111111111111111111111111111111111111111			0	0		
Community Center															
Betail / Convenience Store				Complete											
Recreation Fields															
Recreation Building				Complete											
	Capac	ity		Total	Total Cost	Capac	ity		Total	Total Cost	Capac	ity		Total	Total Cost
	RH	A	FH			RH	A	FH			RH	A	FH		
Totals / Year	0	0	0	0	24,475,689	600	500	-30	1,070	197,868,039	0	0	0	0	0
Cumulative Totals	3,950	1,844	738	6,532		4,550	2,344	708	7,602		4,550	2,344	708	7,602	
Enrollment Projections / Year				21,956					22,302					22,694	
Transfers				855					900					1,000	
Graduate Students				1,812					1,900					2,000	
Total % Resident Population				29.75%					34.09%					33.50%	



comprehensive phasing plan cycle 4 2018 - 2020

Capacity Program Total Cost Capacity Program Total Cost Program Total Cost KISTNG H<		2018				2019				2020						
HH A FH A		Capa	ncity		Program	Total Cost	Capa	acity		Program	Total Cost	Capa	acitv		Program	Total Cost
EXISTING Intervention		BH	A	FH	i logiani		BH	A	FH	riogram		BH	A	FH	i logiani	1010.0001
Heading (actuality a downline tasks) Image: Commons a control of the co	EXISTING															
EAST CAMPUS D O <tho< th=""> O</tho<>	Housing (exclusive of overflow beds)															
EAST CAMPUS Image: control of the control																
Aber des - Inverses D	EAST CAMPUS															
Empound Commons Image: Start Housing Image: Start H	Aberdeen-Inverness Renovation	0				0	0				0	0				0
Commons Packuly Staff Husing Image Structure Staff Structure Stru	Emporium															
Package Staff Housing Interview Interview <td>Commons</td> <td></td>	Commons															
Campon forsat IDC, 569, 501 O IDC, 769, 501 O IDC, 769, 703, 703, 240 Paring Deck/ Maintenance Building IDC, 769, 703, 703, 703, 703, 703, 703, 703, 703	Faculty/Staff Housing															
Housing 600 0 Lemios Phase 1 0 0 0 0 0 0 0 Edinburgh Lemios Phase 2 Parking Deck Mathemanes Building Phase 2 Complete	Canvon Crest					102.569.501					0					74.370.240
Dring Prase 2 Complete Parting Deck/ Maintenance Building	Housing	600	0	0	Lennox Phas	e 1	0	0	0			600	0	0	Edinburgh/Le	nnox Phase 2
Recreation Fields Image: Control of C	Dining				Phase 2 Com	olete									Ŭ	
Parking Dack/ Maintenance Building Image: Second Seco	Recreation Fields															
Other Standblack Standblack O	Parking Deck/ Maintenance Building															
Gen Mor 0 </td <td>Other</td> <td></td>	Other															
Gen Mor 0 </td <td></td> <td>54.057.040</td> <td></td> <td></td> <td></td> <td></td> <td></td>											54.057.040					
Housing D </td <td>Glen Mor</td> <td></td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td></td> <td>400</td> <td>0</td> <td></td> <td>54,357,849</td> <td></td> <td>0</td> <td>0</td> <td></td> <td>0</td>	Glen Mor		0	0		0		400	0		54,357,849		0	0		0
Drinking - Cum a close Distance Distanc	Housing	0	0	0			0	400	0	Ph IIA compl	ete	0	0	0		
Indecedent ratios O	Dining - Gnil & Conv. Store															
Carage 0 <td>Garage</td> <td></td>	Garage															
Veitch 0 <td>Galage</td> <td></td>	Galage															
Velich Student Services 0 0 0 0 0 0 0 0 0 Campus Apartments 0 0 0 0 0 0 0 0 0 0 Bannockburn 0 0 0 0 0 0 0 0 0 Falkik 7 0 0 0 0 0 0 0 0 Plaza 0	Veitch					0					0					0
Health / Counseling Services 0 0 0 Bannockburn 0	Veitch Student Services	0	0	0			0	0	0			0	0	0		
Campus Apartments 0 0 0 Bannockburn Falkirk 0	Health / Counseling Services															
Campus Apartments 0 0 0 0 Bannockkum																
Bannockburn Falkirk Plaza Plaza Potential Acquisition West Campus 150 Phase 1 Medical Student Housing 0 0<td>Campus Apartments</td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td>0</td>	Campus Apartments					0					0					0
Falkrik Plaza	Bannockburn															
Plaza Potential Acquisition Potential Acquisition	Falkirk															
Potential Acquisition WEST CAMPUS Ister of the state of	Plaza															
WEST CAMPUS Image: Compute the second s	Potential Acquisition															
West Campus 18,894,330 0 81,835,174 Housing 150 0 Phase I Medical Student Housing 0 0 500 Phase 3 Podium Apartments Day Care (144 child capacity / phase)	WEST CAMPUS															
Housing 150 0 Phase I Medical Student Housing 0 0 500 0 Phase 3 Podium Apartments Day Care (144 child capacity / phase) Community Center 500 0 Phase 3 Podium Apartments Retail / Convenience Store Recreation Fields	West Campus					18,894,330					0					81,835,174
Day Care (144 child capacity / phase)	Housing		150	0	Phase I Med	lical Student Housing		0	0				500	0	Phase 3 Pod	ium Apartments
Community Center Retail / Convenience Store Recreation Fields Recreation Building Capacity Total Total Cost Capacity Total Total Cost Capacity Total Cost Capacity Total Total Cost Capacity Total Total Cost Capacity Total Cost Capacity Total Cost Totals / Year 600 150 0 750 121,463,831 0 400 0 400 54,357,849 600 500 0 1,100 156,205,414 Cumulative Totals 23,054 23,054 23,377 23,677 1,000 1,000 Total % Resident Population 36,23% 37,44% 37,44% 37,44% 41,61%	Day Care (144 child capacity / phase)															
Capacity Total Total Cost Capacity Total Total Cost Capacity Capacity Capacity Capacity Capacity Cos	Community Center															
Capacity Total Total Cost Capacity Total Capacity Total Compactive Compactive Total Compactive Total Compactive Total Compactive Total Compactive Total Compactive Total Compactive Compactive Total Compactive Compactive Compactive Compactive Compactive Compactive Compactive Compactive	Retail / Convenience Store															
Capacity Total Total Cost Capacity Total Cost Capacity Total Cost RH A FH RH A SR SR <td>Recreation Fields</td> <td></td>	Recreation Fields															
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Recreation Building															
H A FH RH A FH RH A FH RH A FH Totals / Year 600 150 0 750 121,463,831 0 400 0 400 54,357,849 600 500 0 1,100 156,205,414 Cumulative Totals 5,150 2,494 708 8,352 5,150 2,894 708 8,752 5,750 3,394 708 9,852 Enrollment Projections / Year 23,054 23,077 23,677 23,677 23,677 Transfers 1,000 <td< td=""><td></td><td>Capac</td><td>itv</td><td></td><td>Total</td><td>Total Cost</td><td>Capac</td><td>itv</td><td></td><td>Total</td><td>Total Cost</td><td>Capac</td><td>itv</td><td></td><td>Total</td><td>Total Cost</td></td<>		Capac	itv		Total	Total Cost	Capac	itv		Total	Total Cost	Capac	itv		Total	Total Cost
Totals / Year 600 150 0 750 121,463,831 0 400 0 400 54,357,849 600 500 0 1,100 156,205,414 Cumulative Totals 5,150 2,494 708 8,352 5,150 2,894 708 8,752 5,750 3,394 708 9,852 Enrollment Projections / Year 23,054 23,054 1,000 1,000 1,000 1,000 Graduate Students 2,000 2,000 2,000 2,000 2,000 1,000 Total % Resident Population 36,23% 37,44% 37,44% 41,61%		RH	A	FH			RH	A	FH			RH	A	FH		
Cumulative Totals 5,150 2,494 708 8,352 5,150 2,894 708 8,752 5,750 3,394 708 9,852 Enrollment Projections / Year 23,054 23,377 23,677 Transfers 1,000 1,000 1,000 Graduate Students 2,000 2,000 2,000 Total % Resident Population 36,23% 37,44% 41,61%	Totals / Year	600	150	0	750	121,463,831	0	400	0	400	54,357,849	600	500	0	1,100	156,205,414
Enrollment Projections / Year 23,054 23,377 23,677 Transfers 1,000 1,000 1,000 Graduate Students 2,000 2,000 2,000 Total % Resident Population 36,23% 37,44% 41,61%	Cumulative Totals	5,150	2,494	708	8,352		5,150	2,894	708	8,752		5,750	3,394	708	9,852	
Transfers 1,000 1,000 1,000 Graduate Students 2,000 2,000 2,000 Total % Resident Population 36,23% 37,44% 41 61%	Enrollment Projections / Year				23,054					23,377					23,677	
Graduate Students 2,000 2,000 2,000 Total % Resident Population 36,23% 37,44% 41 61%	Transfers				1,000					1,000					1,000	
Total % Resident Population 36.23% 37.44% 41 61%	Graduate Students				2,000					2,000					2,000	
	Total % Resident Population				36.23%					37.44%					41.61%	



comprehensive phasing plan cycle 5 2021 - 2023

	2021				2022				2023						
	Cap	acitv		Program	Total Cost	Capa	icity		Program	Total Cost	Capa	acity		Program	Total Cost
	RH	A	FH	. regram		RH	A	FH	riogram			A	FH	i logiali	
EXISTING															
Housing (exclusive of overflow beds)															
EAST CAMPUS															
Aberdeen-Inverness Renovation	0				0	0				0	0				0
Emporium															
Commons															
Faculty/Staff Housing															
Canyon Crest					0					0					0
Housing	0	0	0			0	0	0			0	0	0		
Dining															
Recreation Fields															
Parking Deck/ Maintenance Building															
Other											_				
Glen Mor					58.010.337					0					0
Housing	0	400	0	Ph IIB compl	ete	0	0	0			0	0	0		
Dining - "Grill" & Conv. Store												-			
Recreation Fields															
Garage															
Veitch					0					0					0
Veitch Student Services		0	0			0	0	0			0	0	0		
Health / Counseling Services															
Campus Apartments					0					0					0
Bannockburn															
Falkirk															
Plaza															
Potential Acquisition															
WEST CAMPUS											_				
West Campus					0					21,413,574					0
Housing		0	0				150	0	Phase 2 Med	lical Student Housing		0	0		
Day Care (144 child capacity / phase)															
Community Center															
Retail / Convenience Store															
Recreation Fields															
Recreation Building															
	Capa	city		Total	Total Cost	Capac	ity		Total	Total Cost	Capac	ity		Total	Total Cost
	RH	A	FH			RH	A	FH			RH	A	FH		
Totals / Year	0	400	0	400	58,010,337	0	150	0	150	21,413,574	0	0	0	0	0
Cumulative Totals	5,750	3,794	708	10,252		5,750	3,944	708	10,402		5,750	3,944	708	10,402	
Enrollment Projections / Year				23,985					24,297					24,613	
Transfers				1,000					1,000					1,000	
Graduate Students				2,000					2,000					2,000	
Total % Resident Population				42.74%					42.81%					42.26%	

cycle 6 2024 - 2026



comprehensive phasing plan cycle 6 2024 - 2026

	2024				2025				2026						
	Capa	acitv		Program	Total Cost	Сара	icitv		Program	Total Cost	Capa	acitv		Program	Total Cost
	RH	A	FH			RH	A	FH			RH	A	FH		
EXISTING															
Housing (exclusive of overflow beds)															
EAST CAMPUS															
Aberdeen-Inverness Renovation	0				0	0				0	0				0
Emporium															
Commons															
Faculty/Staff Housing															
Canyon Crest					0					0					0
Housing	0	0	0			0	0	0			0	0	0		
Dining															
Recreation Fields															
Parking Deck/ Maintenance Building															
Other															
Glen Mor					0					0					0
Housing	0	0	0		•	0	0	0		•	0	0	0		•
Dining - "Grill" & Conv. Store		0					•	•				0			
Recreation Fields															
Garage															
Veitch					0					0					0
Veitch Student Services	0	0	0			0	0	0			0	0	0		
Health / Counseling Services															
Campus Apartments					5,031,445										126,745,252
Bannockburn					· ·										
Falkirk		-450		Demolition								1,0	40		
Plaza															
Potential Acquisition															
WEST CAMPUS															
West Campus					91,568,232					0					0
Housing		500	0	Phase 4 Podi	um Apartments		0	0				0	0		
Day Care (144 child capacity / phase)															
Community Center															
Retail / Convenience Store															
Recreation Fields															
Recreation Building															
	Capac	itv		Total	Total Cost	Capac	itv		Total	Total Cost	Capac	itv		Total	Total Cost
	RH	A	FH			RH	A	FH			RH	A	FH		
Totals / Year	0	50	0	50	96,599,677	0	0	0	0	0	0	1,040	0	1,040	126,745,252
Cumulative Totals	5,750	3,994	708	10,452		5,750	3,994	708	10,452		5,750	5,034	708	11,492	
Enrollment Projections / Year	-			24,933			-		25,257					25,585	
Transfers				1,000					1,000					1,000	
Graduate Students				2,000					2,000					2,000	
Total % Resident Population				41.92%					41.38%					44.92%	

aberdeen-inverness phasing 2010, 2012, 2014







Year 2010	Capacity				Area		Cost	Constr. Costs	Total Costs
Scope of Work	Residence Ha	lls Apart	ment Beds	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements						22,000) 5.00	110,000	
Site Utilities						22,000	2.00	44,000	
Community Spaces					2,860		75.00	214,500	
C-store Deli					4,191		408.00	1,709,928	
Subtotal		0	0	0	7,051	22,000)	2,078,428	
5% Contingency								103,921	
20% Soft costs								436,470	
Subtotal								2,618,819	
Escalation				2.00	-			2,880,701	
Total		0	0	0	7,051	22,000)		2,880,701
Year 2012	Capacity				Area		Cost	Constr. Costs	Total Costs
Scope of Work	Residence Ha	lls Apart	ment Beds	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements						22,000) 5.00	110,000	
Site Utilities						22,000) 2.00	44,000	
Community Spaces					5,400		75.00	405,000	
Subtotal		0	0	0	5,400	22,000)	559,000	
5% Contingency								27,950	
20% Soft costs								117,390	
Subtotal								704,340	
Escalation				4.00				845,208	
Total	<u></u>	0	0	0	5,400	22,000)		845,208
Year 2014	Canacity				Area		Cost	Constr Costs	Total Costs
Scope of Work	Residence Ha	lls Apart	ment Beds	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)	0011011-00010	10101 00010
Site Improvements					(1.1.9 0.01)	26,000	5.00	130,000	
Site Utilities						26,000) 2.00	52,000	
Resident Services Office					4,380		200.00	876,000	
Head Resident (A)		2			2,160		75.00	162,000	
Staff Housing (TH)		4			6,000		142.00	852,000	
Subtotal		0	0	0	12,540	26.000)	2.072.000	
5% Contingency		-	-			-,		103,600	
20% Soft costs								435,120	
Subtotal								2,610,720	
Escalation				6.00				3,393,936	
Total		0	0	0	12,540	26,000)		3,393,936

canyon crest phasing 2010, 2012, 2014, 2015

2012



canyon crest phasing 2010, 2012, 2014, 2015

Year 2010	Capacity			Area		Cost	Constr. Costs	Total Costs
Scope of Work	Residence Halls Apartn	nent Beds Family	y Other	(Bldg - GSF) (Site - SF)	(\$ per SF)		
Building Demolition			-50	50		14,533.00	726,650	
Site Demolition					390,000	0.50	195,000	
Subtotal	0	0	-50	0	390,000		921,650	
5% Contingency							46,083	
20% Soft costs							193,547	
Subtotal							1,161,279	
Escalation			2.00				1,277,407	
Total	0	0	-50	0	390,000			1,277,407
Year 2012	Capacity			Area		Cost	Constr. Costs	Total Costs
Scope of Work	Residence Halls Apartn	nent Beds Family	y Other	(Bldg - GSF) (Site - SF)	(\$ per SF)		
Site Improvements					390,000	10.00	3,900,000	
Site Utilities					390,000	4.00	1,560,000	
Res Halls (beds)	600			168.000	,	210.00	35.280.000	
Building Demolition			-147	147		14.533.00	2,136,351	
Site Demolition					1.026.000	0.50	513.000	
Subtotal	600	0	-147	168 000	1 416 000	0.00	43 389 351	
5% Contingency		0			.,,		2 169 468	
20% Soft costs							9 111 764	
Subtotal	· · · · · · · · · · · · · · · · · · ·						54 670 582	
Ecolation			4.00				65 604 600	
Escalation			4.00				05,004,099	
Total	600	0	-147	168,000	1,416,000			65,604,699
Year 2014	Capacity			Area		Cost	Constr. Costs	Total Costs
Scope of Work	Besidence Halls Apartn	nent Beds Eamily	v Other	(Bldg - GSE) (3	Site - SF)	(\$ per SE)	00110111 00010	1010.00010
Site Improvements			9 01.101	(5.09 0.01) (533 772	10.00	5 337 720	
Site I Itilities					533 772	4 00	2 135 088	
Bes Halls (beds)	600			168 000	000,772	210.00	35 280 000	
Group Housing	336			90,000		178.00	16 020 000	
Diping (costs)	000		378	46 840		408.00	19 110 720	
C store Deli			570	6 964		408.00	2 200 512	
C-Store Dell				0,004	400.000	400.00	<u> </u>	
Ruilding Domolition			41		492,220	14 522 00	5,900,730	
Site Demolition			-41	41	105.000	14,555.00	07.500	
		0	44	011 704	195,000	0.50	97,500	
Subiotal	936	U	-41	311,704	1,221,000		87,284,129	
5% Contingency							4,364,206	
20% Soft costs							18,329,667	
Subtotal							109,978,003	
Escalation			6.00				142,971,403	
Total	936	0	-41	311,704	1,221,000			142,971,403
Year 2015	Capacity			Area		Cost	Constr. Costs	Total Costs
Scope of Work	Residence Halls Apartn	nent Beds Family	y Other	(Bldg - GSF) (Site - SF)	(\$ per SF)		
Scope of Work Site Demolition	Residence Halls Apartn	nent Beds Family	y Other	(Bldg - GSF) (Site - SF) 90,000	(\$ per SF) 0.50	45,000	
Scope of Work Site Demolition Subtotal	Residence Halls Apartn	nent Beds Family	y Other	(Bldg - GSF) (3	Site - SF) 90,000 90,000	(\$ per SF) 0.50	45,000	

 Site Demolition
 90,000
 0.50
 45,000

 Subtotal
 0
 0
 0
 90,000
 45,000

 5% Contingency
 2,250
 2,250
 9,450
 9,450

 20% Soft costs
 9,450
 56,700
 76,545
 76,545

 Total
 0
 0
 0
 90,000
 76,545

canyon crest phasing 2016, 2018, 2020





Year 2016	Capacity				Area		Cost	Constr. Costs	Total Costs
Scope of Work	Residence Halls	Apartment Beds	Family	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements						285,000	10.00	2,850,000	
Site Utilities						285,000	4.00	1,140,000	
Res Halls (beds)	600)			168,000		210.00	35,280,000	
Parking Deck/Maint. Bldg					191,000		162.00	30,942,000	
Building Demolition				-30	30		14,533.00	435,990	
Site Demolition						195,000	0.50	97,500	
Subtotal	600) (0	-30	359,000	480,000		70,745,490	
5% Contingency								3,537,275	
20% Soft costs								14,856,553	
Subtotal	-							89,139,317	
Escalation				8.00				124,795,044	
Total	600)	0	-30	359,000	480,000			124,795,044
Year 2018	Capacity				Area		Cost	Constr. Costs	Total Costs
Scope of Work	Residence Halls	Apartment Beds	Family	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements						195,000	10.00	1,950,000	
Site Utilities						195,000	4.00	780,000	
Res Halls (beds)	600)			168,000		210.00	35,280,000	
Dining (seats)				565	14,714		408.00	6,003,312	
Conference Center					34,767		295.00	10,256,265	
Subtotal	600) (0	0	217,481	195,000		54,269,577	
5% Contingency								2,713,479	
20% Soft costs								11,396,611	
Subtotal	-							68,379,667	
Escalation				10.00				102,569,501	
Total	600) (0	0	217,481	195,000			102,569,501
Year 2020	Capacity				Area		Cost	Constr. Costs	Total Costs
Scope of Work	Residence Halls	Apartment Beds	Family	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements						115,000	10.00	1,150,000	
Site Utilities						115,000	4.00	460,000	
Res Halls (beds)	600)			168,000		210.00	35,280,000	
Subtotal	600)	0	0	168,000	115,000		36,890,000	
5% Contingency					· · ·			1,844,500	
20% Soft costs								7,746,900	
Subtotal								46,481,400	
Escalation				12.00				74,370,240	
Total	600) (0	0	168,000	115,000			74,370,240

glen mor phasing 2019, 2021





glen mor phasing 2019, 2021

Year 2019	Capacity			Area		Cost	Constr. Costs	Total Costs
Scope of Work	Residence Halls Apa	rtment Beds	Other	(Bldg - GSF) (S	lite - SF)	(\$ per SF)		
Site Improvements					111,000	5.00	555,000	
Site Utilities					111,000	2.00	222,000	
Apartments (beds)		400		152,000		178.00	27,056,000	
Subtotal	0	400	0	152,000	111,000		27,833,000	
5% Contingency							1,391,650	
20% Soft costs							5,844,930	
Subtotal							35,069,580	
Escalation			11.00				54,357,849	
Total	0	400	0	152,000	111,000			54,357,849
Year 2021	Capacity			Area		Cost	Constr. Costs	Total Costs
Scope of Work	Residence Halls Apa	rtment Beds	Other	(Bldg - GSF) (S	lite - SF)	(\$ per SF)		
Site Improvements					121,000	5.00	605,000	
Site Utilities					121,000	2.00	242,000	
Apartments (beds)		400		152,000		178.00	27,056,000	
Subtotal	0	400	0	152,000	121,000)	27,903,000	
5% Contingency							1,395,150	
20% Soft costs							5,859,630	
Subtotal							35,157,780	
Escalation			13.00				58,010,337	
							,,	
Total	0	400	0	152,000	121,000	1		58,010,337

veitch phasing 2010, 2012


veitch phasing 2010, 2012

Year 2010	Capacity					Area		Cost	Constr. Costs	Total Costs
Scope of Work						(Bldg - GSF) (Si	ite - SF)	(\$ per SF)		
Building Demolition						20,000		9.00	180,000	
Site Demolition							145,000	0.50	72,500	
Subtotal		0	0	0		20,000	145,000)	252,500	
5% Contingency									12,625	
20% Soft costs									53,025	
Subtotal									318,150	
Escalation					2.00				349,965	
Total		0	0	0		20,000	145,000	1		349,965
Year 2012	Capacity					Area		Cost	Constr. Costs	Total Costs
Scope of Work						(Bldg - GSF) (Si	ite - SF)	(\$ per SF)		
Site Improvements							145,000	5.00	725,000	
Site Utilities							145,000	2.00	290,000	
Student Activity Center						59,453		295.00	17,538,635	
C-store Deli						1,200		408.00	489,600	
Subtotal		0	0	0		60,653	145,000		19,043,235	
5% Contingency									952,162	
20% Soft costs									3,999,079	
Subtotal									23,994,476	
Escalation					4.00				28,793,371	
Total	- <u> </u>	0	0	0		60,653	145,000	1		28,793,371

campus apartments phasing 2009, 2010, 2012, 2014



campus apartments phasing 2009, 2010, 2012, 2014

Scope of Work Apartment Beds Other (Bldg - G Apartments/Existing 270	SF) (Site - SF)	(\$ per SF)		
Apartments/Existing 270				
			0	
Site Demolition 0	9	0,000 0.50	4,500	
Subtotal 0 270 0	0 9	,000	4,500	
5% Contingency		,	225	
20% Soft costs			945	
Subtotal			5 670	
Escalation 1.00			5,070	
			5,554	
Total 0 270 0	0 9	,000		5,954
Year 2010 Capacity Area		Cost	Constr. Costs	Total Costs
Scope of Work Apartment Beds Other (Bldg - C	SF) (Site - SF)	(\$ per SF)		
Site Improvements	9	,000 10.00	90,000	
Site Utilities	9	,000 4.00	36,000	
Retail/Office 0	5.653	200.00	1.130.600	
Subtotal 0 0 0	5 653 9	000	1 256 600	
5% Contingency	0,000 0	,000	62 830	
20% Soft costs			263,886	
Subtotal			1 592 216	
			1,303,310	
			1,741,040	
Total 0 0 0	5,653 9	,000		1,741,648
Year 2012 Capacity Area		Cost	Constr. Costs	Total Costs
Scope of Work Apartment Beds Other (Bldg - G	SF) (Site - SF)	(\$ per SF)		
Building Demolition -375 18	1,670	9.00	1,635,030	
Site Demolition	304	,000 0.50	152,000	
Subtotal 0 -375 0 18	1,670 304	,000	1,787,030	
5% Contingency			89,352	
20% Soft costs			375,276	
Subtotal			2,251,658	
Escalation 4.00			2,701,989	
Total 0 -375 0 18	1,670 304	,000		2,701,989
Year 2014 Capacity Area		Cost	Constr. Costs	Total Costs
Scope of Work Apartment Beds Other (Bidg - C	SE) (Site - SE)	(\$ per SE)	23	
Site Improvements	304		3 040 000	
Site I Itilities	204	,000 4.00	1 216 000	
Parking Podium Loval	204	2000 70.00	5 740 000	
	02 E1	000 10.00	612,000	
Parking (surface)	0.000	,000 12.00	012,000	
Apartments/roolum 448 22	0,000	178.00	39,160,000	
	0,813	200.00	18,162,600	
Subtotal 0 448 0 31	0,813 437	,000	67,930,600	
5% Contingency			3,396,530	
20% Soft costs			14,265,426	
Subtotal			85,592,556	
Escalation 6.00			111,270,323	
Total 0 448 0 31	0,813 437	,000		111,270,323

campus apartments phasing 2024, 2026



campus apartments phasing 2024, 2026

Year 2024	Capacity					Area			Cost	Constr. Costs	Total Costs
Scope of Work		Apartme	ent Beds	Othe	r	(Bldg - GSF)	(Site - S	SF)	(\$ per SF)		
Building Demolition			-450			216,000)		9.00	1,944,000	
Site Demolition			0				54	48,900	0.50	274,450	
Subtotal		0	-450	0		216,000) 54	48,900		2,218,450	
5% Contingency										110,923	
20% Soft costs										465,875	
Subtotal	-									2,795,247	
Escalation					16.00					5,031,445	
Total		0	-450	0		216,000) 54	48,900			5,031,445
Year 2026	Capacity					Area			Cost	Constr. Costs	Total Costs
Scope of Work		Apartme	ent Beds	Othe	r	(Bldg - GSF)	(Site - S	SF)	(\$ per SF)		
Site Improvements							54	48,900	10.00	5,489,000	
Site Utilities							54	48,900	4.00	2,195,600	
Parking Podium Level							18	80,400	70.00	12,628,000	
Parking (surface)							(65,000	12.00	780,000	
Apartments/Podium			1,040			395,200)		178.00	70,345,600	
Community Building						4,600)		202.00	929,200	
Pool						17,000)		202.00	3,434,000	
Subtotal		0	1,040	0		416,800) 79	94,300		95,801,400	
5% Contingency										4,790,070	
20% Soft costs										20,118,294	
Subtotal						-				120,709,764	
Escalation					1.00					126,745,252	
Total		0	1,040	0		416,800) 79	94,300			126,745,252

west campus phasing 2011, 2013, 2014





2013

2014



west campus phasing 2011, 2013, 2014

Year 2011	Capacity				Area		Cost	Constr. Costs	Total Costs
Scope of Work	Apartment Beds	Family	Family	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements						533,610	12.00	6,403,320	
Site Utilities						533,610	0.00	2,532,600	
Streets							0.00	7,476,300	
Family Housing (Apt.)			248		283,063		132.00	37,364,316	
Family Housing (TH)			120		125,467		142.00	17,816,314	
CDC building					14,627		203.00	2,969,281	
CDC site						51,340	20.00	1,026,800	
Recreation Fields						302,742	9.50	2,876,049	
Recreation Fields Parking						121,968	12.00	1,463,616	
Maintenance Building					3,227		162.00	522,774	
Maintenance Bldgs Site Work						13,068	10.00	130,680	
Community Center					6,764		203.00	1,373,092	
Subtotal	()	368	0	433,148	1,022,728		81,955,142	
5% Contingency						, ,		4,097,757	
20% Soft costs								17.210.580	
Subtotal					-			103,263,479	
Escalation	· · · · · · · · · · · · · · · · · · ·			3.00				118,753,001	
	· · · · · · · · · · · · · · · · · · ·								
Total	()	368	0	433,148	1,022,728			118,753,001
Vear 2013	Capacity				Area		Cost	Constr. Costs	Total Costs
Seene of Work		Family	Family	Other	(Bida COE)	(Cite CE)	(f per CE)	CONSIL COSIS	10101 00515
Site Improvements	Apartment beus	Family	ганну	Other	(Blug - GSF)	(Sile - SF)	(\$ per SF)	5 762 400	
Site Improvements						400,200	<u> </u>	3,762,400	
Streete	·					400,200	0.00	2,279,340	
Sileeis	· · · · · · · · · · · · · · · · · · ·		049		265.050		122.00	3,407,000	
Family Housing (Apt.)	· · · · · · · · · · · · · · · · · · ·		240		205,950		142.00	10,000,000	
Parmily Housing (TH)			92		96,045		142.00	13,638,390	
					14,627	51.040	203.00	2,969,281	
CDC sile						51,340	20.00	1,026,800	
Recreation Fields					0.704	121,968	9.50	1,158,696	
Community Center		<u> </u>	040	0	0,704	050 500	203.00	1,373,092	
Subiolal	()	340	0	383,380	653,508		00,781,199	
	· · · · · · · · · · · · · · · · · · ·							3,339,060	
20% Soft costs	·							14,024,052	
Subtotal	·							84,144,311	
Escalation				5.00				105,180,388	
Total	()	340	0	383,386	653,508			105,180,388
Year 2014	Capacity				Area		Cost	Constr. Costs	Total Costs
Scope of Work	Apartment Beds	Family	Family	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements			~ ,			300.000	12.00	3,600.000	
Site Utilities						300.000	5.00	1,500,000	
Streets						,	0.00	1,294,900	
Parking Podium Level						80.000	70.00	5.600.000	
Apartments (beds)	500)			190.000		156.00	29.640.000	
Subtotal	500)	0	0	190,000	380.000		41 634 900	
5% Contingency		,	Ū	•	100,000	000,000		2 081 745	
20% Soft costs								8 743 329	
Subtotal	·							52 459 974	
Escalation				6.00				68 197 966	
				0.00					
Total	500)	0	0	190,000	380,000			68,197,966

west campus phasing 2015, 2016, 2018, 2020



Year 2015	Capacity			Area		Cost	Constr. Costs	Total Costs
Scope of Work	Apartment Beds Family	Family	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements					132,000	12.00	1,584,000	
Site Utilities					132,000	5.00	660,000	
Recreation Building				55,000		220.00	12,100,000	
Subtotal	0	0	0	55,000	132.000		14.344.000	
5% Contingency			-		,		717 200	
20% Soft costs							3 012 240	
Subtotal							18 073 440	
Escalation			7.00				24 300 144	
Localation			7.00				24,000,144	
Total	0	0	0	55,000	132,000			24,399,144
Year 2016	Capacity			Area		Cost	Constr. Costs	Total Costs
Scope of Work	Apartment Beds Family	Family	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements					300,000	12.00	3,600,000	
Site Utilities					300,000	5.00	1,500,000	
Streets					,	0.00	1.084.600	
Parking Podium Level					80.000	70.00	5.600.000	
Apartments (beds)	500			190.000		156.00	29 640 000	
Subtotal	500	0	0	190,000	380.000	100.00	41 424 600	
5% Contingency		0	0	100,000	000,000		2 071 230	
20% Soft costs							2,071,200	
20% Soli Cosis							50,099,100	
Subiolal			0.00				52,194,996	
Escalation			8.00				/3,072,994	
Total	500	0	0	190,000	380,000			73,072,994
Year 2018	Capacity			Area		Cost	Constr. Costs	Total Costs
Scope of Work	Apartment Beds Family	Family	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements					65,000	12.00	780,000	
Site Utilities					65,000	5.00	325,000	
Medical Students (Apt.)	150			57,000		156.00	8,892,000	
Subtotal	150	0	0	57.000	65.000		9.997.000	
5% Contingency		-			/		499.850	
20% Soft costs							2 099 370	
Subtotal			· · · · ·				12 596 220	
Escalation							12,000,220	
			10.00				18.894.330	
			10.00				18,894,330	
Total	150	0	10.00 0	57,000	65,000		18,894,330	18,894,330
Total Year 2020	150 Capacity	0	0 10.00	57,000 Area	65,000	Cost	<u>18,894,330</u> Constr. Costs	18,894,330 Total Costs
Total Year 2020 Scope of Work	150 Capacity Apartment Beds Family	0 Family	0 Other	57,000 Area (Bldg - GSF)	65,000 (Site - SF)	Cost (\$ per SF)	18,894,330 Constr. Costs	18,894,330 Total Costs
Total Year 2020 Scope of Work Site Improvements	150 Capacity Apartment Beds Family	0 Family	0 0	57,000 Area (Bldg - GSF)	65,000 (Site - SF) 290,000	Cost (\$ per SF) 12.00	 Constr. Costs 	18,894,330 Total Costs
Total Year 2020 Scope of Work Site Improvements Site Utilities	150 Capacity Apartment Beds Family	0 Family	0 Other	57,000 Area (Bldg - GSF)	65,000 (Site - SF) 290,000 290,000	Cost (\$ per SF) 12.00 5.00	<u>Constr. Costs</u> <u>3,480,000</u> 1,450,000	18,894,330 Total Costs
Total Year 2020 Scope of Work Site Improvements Site Utilities Parking (spaces)	150 Capacity Apartment Beds Family	0 Family	0 0 Other	57,000 Area (Bldg - GSF)	65,000 (Site - SF) 290,000 290,000 35,237	Cost (\$ per SF) 12.00 5.00 12.00	 Constr. Costs 	18,894,330 Total Costs
Total Year 2020 Scope of Work Site Improvements Site Utilities Parking (spaces) Parking Podium Level	150 Capacity Apartment Beds Family	0 Family	0 0 0ther	57,000 Area (Bldg - GSF)	65,000 (Site - SF) 290,000 290,000 35,237 80,000	Cost (\$ per SF) 12.00 5.00 12.00 70.00	18,894,330 Constr. Costs 3,480,000 1,450,000 422,844 5,600,000	18,894,330 Total Costs
Total Year 2020 Scope of Work Site Improvements Site Utilities Parking (spaces) Parking Podium Level Apartments (beds)	150 Capacity Apartment Beds Family	0 Family	0 0 Other	57,000 Area (Bldg - GSF) 	65,000 (Site - SF) 290,000 290,000 35,237 80,000	Cost (\$ per SF) 12.00 5.00 12.00 70.00 156.00	18,894,330 Constr. Costs 3,480,000 1,450,000 422,844 5,600,000 29,640,000	18,894,330 Total Costs
Year 2020 Scope of Work Site Improvements Site Utilities Parking (spaces) Parking Podium Level Apartments (beds) Subtotal	Lapacity Apartment Beds Family 500 500	0 Family	0 0 0 0 0	57,000 Area (Bldg - GSF) 	(Site - SF) 290,000 290,000 35,237 80,000 405,237	Cost (\$ per SF) 12.00 5.00 12.00 70.00 156.00	18,894,330 Constr. Costs 3,480,000 1,450,000 422,844 5,600,000 29,640,000 40,592,844	18,894,330 Total Costs
Year 2020 Scope of Work Site Improvements Site Utilities Parking (spaces) Parking Podium Level Apartments (beds) Subtotal 5% Contingency	Logacity Apartment Beds Family 500 500	0 Family 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	57,000 Area (Bldg - GSF) 	(Site - SF) 290,000 290,000 35,237 80,000 405,237	Cost (\$ per SF) 12.00 5.00 12.00 70.00 156.00	18,894,330 Constr. Costs 3,480,000 1,450,000 422,844 5,600,000 29,640,000 40,592,844 2,029,642	18,894,330 Total Costs
Total Year 2020 Scope of Work Site Improvements Site Utilities Parking (spaces) Parking Podium Level Apartments (beds) Subtotal 5% Contingency 20% Soft costs	Logacity Apartment Beds Family 500 500	0 Family 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	57,000 Area (Bldg - GSF) 190,000 190,000	65,000 (Site - SF) 290,000 290,000 35,237 80,000 405,237	Cost (\$ per SF) 12.00 5.00 12.00 70.00 156.00	18,894,330 Constr. Costs 3,480,000 1,450,000 422,844 5,600,000 29,640,000 40,592,844 2,029,642 8,524,497	18,894,330 Total Costs
Total Year 2020 Scope of Work Site Improvements Site Utilities Parking (spaces) Parking Podium Level Apartments (beds) Subtotal 5% Contingency 20% Soft costs Subtotal	150 Capacity Apartment Beds Family 500 500	0 Family 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	57,000 Area (Bldg - GSF) 	65,000 (Site - SF) 290,000 290,000 35,237 80,000 405,237	Cost (\$ per SF) 12.00 5.00 12.00 70.00 156.00	18,894,330 Constr. Costs 3,480,000 1,450,000 422,844 5,600,000 29,640,000 40,592,844 2,029,642 8,524,497 5,1146,027	18,894,330 Total Costs
Year 2020 Scope of Work Site Improvements Site Utilities Parking (spaces) Parking Podium Level Apartments (beds) Subtotal 5% Contingency 20% Soft costs Subtotal	Lapacity Apartment Beds Family 500 500	0 Family 0	0 0 0 0 0	57,000 Area (Bldg - GSF) 	65,000 (Site - SF) 290,000 290,000 35,237 80,000 405,237	Cost (\$ per SF) 12.00 5.00 12.00 70.00 156.00	18,894,330 Constr. Costs 3,480,000 1,450,000 422,844 5,600,000 29,640,000 40,592,844 2,029,642 8,524,497 51,146,983 81,925,174	18,894,330 Total Costs
Total Year 2020 Scope of Work Site Improvements Site Utilities Parking (spaces) Parking Podium Level Apartments (beds) Subtotal 5% Contingency 20% Soft costs Subtotal Escalation	150 Capacity Apartment Beds Family 500 500	0 Family 0	10.00 0 Other 0 12.00	57,000 Area (Bldg - GSF) 	65,000 (Site - SF) 290,000 290,000 35,237 80,000 405,237	Cost (\$ per SF) 12.00 5.00 12.00 70.00 156.00	18,894,330 Constr. Costs 3,480,000 1,450,000 422,844 5,600,000 29,640,000 40,592,844 2,029,642 8,524,497 51,146,983 81,835,174	18,894,330 Total Costs

west campus phasing 2022, 2024

2022 2024 -0 100000

Year 2022	Capacity				Area		Cost	Constr. Costs	Total Costs
Scope of Work	Apartment Beds	Family	Family	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements						65,000) 12.00	780,000	
Site Utilities						65,000	5.00	325,000	
Medical Students (Apt.)	150)			57,000)	156.00	8,892,000	
Subtotal	150)	0	0	57,000) 65,000)	9,997,000	
5% Contingency								499,850	
20% Soft costs								2,099,370	
Subtotal								12,596,220	
Escalation				14.00				21,413,574	
Total	150)	0	0	57,000	65,000)		21,413,574
Year 2024	Capacity				Area		Cost	Constr. Costs	Total Costs
Scope of Work	Apartment Beds	Family	Family	Other	(Bldg - GSF)	(Site - SF)	(\$ per SF)		
Site Improvements						290,000) 12.00	3,480,000	
Site Utilities						290,000	5.00	1,450,000	
Streets							0.00	204,000	
Parking Podium Level						80,000	70.00	5,600,000	
Apartments (beds)	500)			190,000)	156.00	29,640,000	
Subtotal	500)	0	0	190,000	370,000)	40,374,000	
5% Contingency								2,018,700	
20% Soft costs								8,478,540	
Subtotal								50,871,240	
Escalation	-			16.00				91,568,232	
Total	500)	0	0	190,000	370,000)		91,568,232

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DESIGN AND CONSTRUCTION DELIVERY METHODOLOGIES

The University has many processes and methods available to advance this work. The outline below is focused on design and construction methods. In addition to these choices, the University also must engage in design/construction team procurement methods, total project management and interface between multiple sites, contractors and phases, and the various contract options.

Traditional Design/Bid/Build

This is the traditional design and construction approach for institutional construction. While institutions are more frequently utilizing alternate processes, this process allows for the traditional reviews and design assurances desired by many colleges and universities. Traditionally the architect is responsible for the coordination of the design team, the design and the production of construction documents and the project is put out to bid. The bid list can be open or a select list of bidders. The owner has independent contracts with both the architect and the contractor.

Benefits

- · Owner has a clear picture of the design/end product
- Owner has participated and provided input in the design process
- Competitive bidding
- Architect is typically qualifications-based; selected by the University

Challenges

- Two points of contact for the University
- Typically, the longest project delivery schedule

- In public sector work, the low bidder typically is awarded the work and this may not yield the greatest value for the Owner
- Requires a good construction management team by the University, which typically yields higher total project costs

Design/Build

There are many versions of design/build. However, the hallmark of the system is one source of responsibility, as the design and the construction are executed by a team. The team may be one firm or a conglomerate of firms. Variations of this approach primarily are involved with the selection process. In the most common method, the selection process is a design/cost proposal in which a qualifications proposal produces a shortlist of teams. In this case, each shortlisted team advances a design and presents a total package – design and a budget. The University selects the best total package/value. Typically a stipend is allocated to each shortlisted team. In some instances the selection process is qualifications-based, and this allows the University to establish a budget and participate in the design process once the team is on board.

Design/Build/Qualifications Based

Benefits

- Owner has an opportunity to participate and provide input in the design process
- · Consolidated schedule for team selection and design/pricing
- Owner has a single contract and source of responsibility
- Early lock-in on project costs that meet the Owner's budget
- Single selection process
- Frequently results in reduced total costs

design and construction delivery methodologies

Challenges

- Owner cannot independently select architect and contractor and may not favor the paired options
- Owner's involvement, while positive, will reduce a key value of the design/build process
- Owner does not have enough data at the point of selection to guarantee the quality of the project
- University must be positioned to make accelerated decisions
- Requirements imposed by many state institutions may offset the theoretical advantages of the process

Design/Build/Design and Price Proposal Based

Benefits

- Owner has an opportunity to participate and provide input in the design process
- Consolidated schedule for team selection and design/pricing
- Owner has a single contract and source of responsibility
- Early lock-in on project costs that meet the Owner's budget
- Single selection process
- Frequently results in reduced total costs

Challenges

- Owner has limited opportunity to participate and provide input in the design process
- Team comes on board with many decisions made and changes to the design, post selection, offset the value of the process
- Owner cannot independently select architect and contractor and may not favor the paired options

- Owner has limited data at the point of selection to guarantee the quality of the project
- University must be positioned to have key decision makers present at the selection process and to make accelerated decisions in the initial phases of the work
- Requirements imposed by many state institutions may offset the theoretical advantages of the process

Construction Management

The hallmark of the Construction Management (CM) process is to bring a contractor on board in the initial phase of the work providing their expertise in construction methods and costs early, toward the benefit of the design and budget decisions. The CM can act in this capacity independent of the actual contractor procurement process or can perform as a "CM at Risk," where the CM guarantees the construction cost at a designated point in the project and essentially acts as the general contractor. The CM process is typically qualifications-based and occurs at or before Schematic Design to provide the greatest value to the University.

Benefits

- Early design and budget decisions have the value of contractor involvement
- Costs are monitored independent of the design team
- · University is not locked into the contractor
- Equity relationship between all parties to reach the owner's goals

design and construction delivery methodologies

Challenges

- Typically the Construction Manager desires to wait until Construction Documents to lock in the price, and the "at risk" factor is lost
- Limited positive impact on construction schedule, contractor procurement or design process
- The quality of the contractor's cost resources are sometimes limited pending the current bidding climate
- Contractors have a greater desire to build than to estimate; the value of the process varies greatly with the contractor

Independent Project Management

Independent project management is a management process not a specific delivery methodology; however, it is a method for selecting and managing delivery methodologies on multi-phase, multi-site projects. The Project Management Team monitors the interface between phases or projects and creates a single source of responsibility for all schedules and the respective budgets. The Project Management process is typically qualifications-based, and like the CM process, occurs at or before schematic design to provide the greatest value to the University. An architect, a contractor, or a firm that specializes in project management can perform this role.

Benefits

- Single source of schedule and budget management between multiple sites that may have integrated design issues such as infrastructure or phased completion
- Costs and schedule are monitored independent of the design and construction team
- Project Manager's prime incentive is to work in the best interest of the owner

 Works well for owners who do not have the trained staff or infrastructure to manage the project for the University

Challenges

- Doesn't work well on small projects
- Adds a layer of cost to a project that may be redundant with University processes

Private Developer

The privatized development process is new to most colleges and universities. The developer, on land leased from the University, owns the project. In some cases, the University can arrange to manage the project; however, the developer typically manages the property as well. In the past, the value to the University has been the ability to advance the project without adding debt to the University's balance sheet; however, recent discussions at UCR have indicated that this may not currently be possible.

Benefits

- Minimizes level of University financial and construction risk
- Maximum schedule and cost advantages, as the processes do not involve institutional processes, reviews, and typically adhere only to local code building (not institutional) standards
- Minimizes impact on University staffing needs for new projects
- Alternative financing opportunities
- Alternative if the institution does not have the resources or capacity to meet their needs in a timely fashion

design and construction delivery methodologies

Challenges

- · Minimal level of University involvement
- Project is "on campus" and is at risk for not meeting the University standards for image, construction, and management
- University has minimal control over the process or operations
- · May not reflect the institutional mission
- Ties up land for a specific length of time which might interfere with newer institutional goals

In addition to the methods above, there are opportunities to blend the methods and create scenarios that best fit the University's agenda and the specific project plans. In a plan of this scale, the University would be well served to consider the methods and processes of the total management of the project, whether it is internal or outsourced. This will assist in mitigating issues associated with cross-project coordination, such as those associated with infrastructure packages and construction projects. In some instances, the University may desire to package multiple components of the work under a single contract.

SUPPORTING MATERIALS



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existing facilities introduction

During the initial visit to the campus, the planning team toured the existing facilities. The purpose of this section of the report is to document the observations and to make any recommendations based on the walkthrough and any empirical data that was collected in the course of the study effort. The Canyon Crest family housing, and Bannockburn and Falkirk student apartments are recommended for replacement in the Strategic Plan for Student Housing. Excluding Bannockburn and Falkirk, the existing campus apartments (Plaza and the third party developed land-lease apartment communities of Stonehaven and International Village), appear to meet the needs of the student desiring independent living. These neighborhoods will sustain themselves for the forseeable future with routine maintenance and aesthetic refreshing.

The undergraduate housing facilities are in good condition relative to their age and in benchmarking against facilities of similar age and design nationally. UCR is fortunate to have undergraduate facilities that were designed intentionally around fostering student communities. Most student housing facilities at other institutions that were built in the time frame of Aberdeen-Inverness (A-I) to the first phase of Lothian were focused on "warehousing" students and are absent many of the amenities found in the UCR facilities.

The community bathrooms are the primary drawback of the existing undergraduate facilities, as they are not the first choice of most students, and they are limiting regarding summer conference use. The student rooms are generally adequate in size; however, the University may consider increasing the percent of rooms offered as single occupancy rooms over time, as there is a consistent trend in pressures for single occupancy rooms for health, personal, or study reasons. Student feedback in the course of the study suggests that the double occupancy/community model is accepted and positive for the first-year experience, which is the current use of these facilities. In particular, it was noted that A-I builds an exceptionally tight student community, and is valued for that outcome.

The ratio of common space to total area is adequate to provide current and future flexibility for the University. Both A-I and Lothian provide diversity in size, type, and distribution of community space. The Strategic Plan for Student Housing provides new dining venues, however, the existing dining halls in A-I and Lothian will continue to be the primary dining areas for those residents. The existing dining and kitchen areas at A-I will need to be renovated to be kept up to date and accommodate student preferences. It is also anticipated that both A-I and Lothian's dining facilities will provide the meal plan needs for students in the first phase of residence hall construction at Dundee. It is also anticipated that the new retail emporium at A-I will augment food options for students in the east campus residence halls. Other opportunities include:

- Kitchen facilities renovated, to function as a centralized processing for specific food service products. The A-I kitchen offers excellent opportunity to create a centralized bakery. The Lothian kitchen provides an opportunity to create a centralized "cold prep" facility.
- Late-night food/retail option potentially at the proposed A-I emporium to provide light meals, general convenience items, and opportunities for evening socialization.
- Dining rooms as lecture/ program space and breakout rooms
- Veitch to be reconstructed to provide residence life program space replacing dining rooms which are currently heavily used for this purpose.

Additional opportunities for improvement can be found, but are relatively minor steps and do not impact capacity, general configuration, or use. In general, observations and recommendations established in this report are focused on opportunities to enhance amenities for students, create spaces of identity within the community, or to take advantage of existing spaces through new uses.

The following information documents the observations and preliminary thoughts of the planning team for the existing residence halls. Action on these recommendations should be balanced with the impact on the total system.

lothian

The West Wing of Lothian was built in 1963 and the East Wing in 1990. The two phases of Lothian consist of five wings or halls connected by a central lobby area. The design occupancy is 996, with an overflow occupancy of 1,012. There is a dining facility in Lothian that was recently renovated and provides 432 seats.

Community Strengths

Close-knit community; Wireless access.

Common Areas and Facilities

Dining; Computer room; Laundry rooms; Piano and other instrument practice rooms; Mailboxes; Game room and vending machines; Weight/exercise room.

Corridors and Support Space

Bike storage area.

Student Room, Mix, Size, Condition

Lothian is configured as a traditional residence hall with students primarily in double bedrooms with community hall bathrooms.

Location and Site Issues

Located close to the Veitch Student Services Building and easily accessible to the core campus.

Existing Challenges

Enclosed courtyard is underutilized. The "caves" in West Lothian derived their name because they are not well connected.











Diagrams Showing an Overview of Ideas

Best Opportunities for Improvement

- Create visual and physical access from the interior lounge spaces to the courtyards.
- Use the interior courtyards to bring natural light into the long hallways; this may require reconfiguring or deleting a few bedrooms.
- Enhance the courtyards with landscape and site features that will generate activity, provide areas for quiet study, and possible outdoor program space.
- Provide a sense of privacy from the student rooms at the courtyard location, using overhead planes such as canopies, trellises, and awnings.
- Provide exterior landscape and task lighting for evening activities.
- Enclose garden space with natural or screen walls.
- Consider incorporation of a water feature for acoustic benefit and variety in the exterior space.
- Consider reconfiguration of the "caves" (jogged hall ends) into upperclassmen suites or special interest group housing, creating a unique opportunity that utilizes the ends of the building and the associated courtyard.
- The bathroom configuration was not objectionable to students, and is typically cost prohibitive to reconfigure. When bathrooms are due for an upgrade, consider transforming to community baths with a very high level of finish, aesthetic, and privacy.

aberdeen-inverness

Aberdeen-Inverness (A-I) was built in 1959. It is configured in eight wings or halls that are connected to a common circulation spine. The design occupancy is 792, with overflow occupancy of 892. The large dining hall located in the middle of the building also functions as a large programming space. On the ground floor, the circulation spine is flanked by student support spaces and offers a common, high visibility thoroughfare for the residents to interact. The amount of light and "see and be seen" spaces in this central space is very positive and valuable to the student community.

Community Strengths

Close knit community; Organization of the wings; many places to meet and study; Dining Hall; Programming; Large rooms; Large windows connect common spaces to exterior community; Central spine that is highly populated; Wireless access.

Common Areas and Facilities

Programming for group gatherings, study, activities are facilitated on the ground floor with a variety of spaces.

Corridors and Support Space Bike storage area.

Student Room, Mix, Size, Condition

Units are configured primarily in double bedrooms, with shared group bathrooms.

Location and Site Issues

Located along a potential major circulation route to campus from Dundee.

Existing Challenges

Bathroom configurations; basement laundry; additional student storage in basement,; exterior spaces; poor lighting in common areas; lack of natural light in residential wings.



aberdeen-inverness common space renovation program

Comments

Total ASF

ASF



	Residential Spaces			5,712	
982	2-Bedroom Townhouse. (1/200)	4	1,050	4,200	Resident Director
982	2-Bedroom Apt. (1/Hall)	2	756	1,512	Head Resident
	Community Space			5,860	
335	Entry vestibule	1	100	100	
130	Large Meeting Rooms	3	500	1,500	
130	Small Meeting Rooms	6	150	900	
260/110	Computer Lab/Classroom	1	360	360	
630	Gaming Lounge	1	800	800	
630	Fitness Room	1	1,000	1,000	
630	Living Room	1	1,200	1,200	
	Resident Services Office			3,067	
335	Lobby/Reception/Waiting	1	537	537	
320	Resident Director Office	1	120	120	
320	Head Resident Office	1	100	100	
320	RSO Manager Office	1	160	160	
320	Staff Offices	5	120	600	
335	Staff Workroom	1	225	225	
335	Staff Work Stations	3	120	360	
335	Staff Restroom	1	60	60	
630/920	Staff Lounge/Kitchenette	1	120	120	
340	Conference Room	1	325	325	
410	Poster Room	1	160	160	
335	Storage	1	300	300	
615	Mail	1	350	350	
	Support Spaces			0	
335	Public Restrooms	2	250	0	Note 1
510	Mechanical Space	1	120	0	Note 1
920	Custodial Services	1	120	0	Note 1
920	Housekeeping Closets	1	80	0	Note 1
510	Telecommunications	1	100	0	Note 1
	Total ASF			14,639	
-	Add Emporium			4,191	
	Internal Net to Gross Factor (70%)			25.104	

Quantity

Circulation
 Dining
 Emergency Exits
 Lounge
 Main Entrances
 Office / Support
 Other Common Areas
 Staff Apartment

Housing

KEY

Note 1 Non assignable area per U.C. program standards

Space / Description

Space #

aberdeen-inverness

Proposed Improvements

- Wings A and D will be renovated in three phases and reconfigured to provide community space that is entered from the outside making the space more accessible to students.
- Wing D will maintain a large living room and game room but also provide a retail emporium with outdoor seating. (Phase 1)
- The resident services office will be expanded to provide more staff workspace and offices with a reconfigured mail area. (Phase 1)
- The restrooms will be expanded to accommodate the enhanced community space and dining area capacity. (Phase 1)
- Wing A will include meeting rooms, a computer lab, fitness center and storage. A new outdoor courtyard will be created on the southside for another function.(Phase 2)
- Four townhouses will be developed on the east side of Aberdeen Drive to provide a more spacious accommodation for residence life staff. (Phase 3)





pentland hills

Phase I of Pentland Hills was built in 2000 and Phase II in 2002. The maximum total occupancy is 1,132.

Community Strengths

Extensive classroom and community space on the ground level; vertical organization provides opportunity for specific community identity.

Common Areas and Facilities

Game rooms; Piano practice rooms; Weight rooms; Computer lab; Cable and internet access; Storage.

Student Room, Mix, Size, Condition

Vertical suite organization on second and third floors; horizontal suite organization on the first floor.

Location and Site Issues

Located between Aberdeen-Inverness and Glen Mor, and adjacent to Veitch and Lothian, on a path that connects the three facilities.

Opportunities / Challenges

Vertical organization makes it difficult for larger-scale community building; and organization makes it inefficient for the custodial staff to clean.







pentland hills



Best Opportunities for Improvement

• As new housing is brought online elsewhere on campus, consider using a portion of Pentland Hills as additional Special Purpose Housing.



SUSTAINABLE DESIGN

The University of California, Riverside desires to maximize environmentally responsible opportunities of the Strategic Plan for Student Housing. This plan offers multiple project events that may be viewed as an opportunity, within each individual project's respective budget, to test and implement those strategies that yield the greatest performance for the University over time.

This plan reinforces several strategies, consistent with the University's LRDP, that contribute greatly toward achieving an environmentally responsible living environment. In general this plan reinforces, through layout and planning principles, the following actions that contribute to sustainable opportunities at UCR:

- Site selection and development that supports efficient land use, effective storm water management, and a pedestrian focused community with easy access to transit locations, bike paths, and campus connections.
- Preservation and re-establishment of natural land features and vegetation.
- Building masses that contribute to shading exterior spaces, opportunities for natural day lighting at interior spaces, and preservation of significant view corridors.
- Opportunities for establishment of a landscape composed of native species or low water requiring plant material.
- Dedicated program and site space that support the collection, storage and removal of recyclable materials.
- Project budgets that allow the University flexibility in material and building system choices on a per-project basis. This allows the University to evaluate the life-cycle costs, principles of sustainable development and the social impact of each option.

- UCR has adopted the 2005 Campus Green Building Baseline as a LEED-equivalent rating system. Based on LEED-NC 2.1 the Baseline is used to substantiate UCR's commitment to the wise use of natural resources. Each project event of the plan is unique in its location on campus and provides an opportunity to expand the baseline to achieve additional points within each category. The Baseline identifies the following areas of focus:
- 1. Sustainable Site Design
- 2. Water Efficiency
- 3. Energy and Atmosphere
- 4. Materials and Resources
- 5. Indoor Environmental Quality
- 6. Innovation in Design

In specific response to environmental opportunities for a student residential community, this plan recommends the following actions for consideration by the University:

- 1. Students desire to be environmentally conscious as a lifestyle not a special action therefore finish materials should be used that provide visible and physical evidence of the University's commitment to the environment, and "pride of place" for the students. Examples of how this could be implemented include:
 - Finishes that promote the use of recycled materials, such as tiles made from recycled soda bottles.
 - Finishes that use rapidly renewable materials sources that are also highly durable in student environments, such as cork or bamboo flooring.

sustainable design

- Lighting that mitigates light pollution, in particular site lighting standards and exterior building lighting.
- Natural outdoor environments that encourage habitats for birds, butterflies, and other visible evidence that the environment is desired by animals as well as people.
- 2. Develop visible icons that can become sources of community identity regarding commitment to the environment.

The natural features of the sites, as well as opportunities regarding the environment, can provide a significant source of community identity that is aligned with environmentally responsible actions. Examples of this include:

- · The enhancement of natural features such as the arroyo.
- The prominent placement and celebration of physical features that provide visible reminders of community commitment to the environment. Good examples of this include solar-powered lighting, translating the student's everyday familiarity of a solar powered calculator into the physical built environment. Other examples include use of photovoltaics and windmills for winddriven energy sources.
- 3. Creating an environment of sites and buildings that educate students, staff, and the public.

As an institution of higher education, UCR can use the development of any project as an opportunity to create a three-dimensional textbook out of the built and natural environment.

• Design features that can be visible to the residents and visitors and that communicate, sometimes through written explanation (signage, general literature, etc.), the intent and the commitment

- of the University. Once communicated and established, these features will become known and appreciated by the broader community.
- The natural landscape as an educational tool through the identification and short narrative of the native plant species on site.
- Allow the project the opportunity to "test" products and processes. While there is always risk associated with using new materials and processes, there can also be rewards. The University is an environment of exploration and discovery, and projects of this magnitude allow the opportunity to test, even in a limited application, within the project.

sustainable design



Glen Mor Site



Aerial View of Campus

Scope	LEED 2.1 LEED Campus Only	Laboration Leader Laboration L	Prerequisite	EAST CAMPUS	WEST CAMPUS	Notes
Sustainable Sites	Y	SS Prerequisite 1 - Erosion & Sedimentation Control				
Sustainable Sites	Y	SS 1 - Site Selection		1	0	CPP Point
Sustainable Sites	Y	SS 2 - Development Density				
Sustainable Sites	Y	SS 3 - Brownfield Redevelopment				
		SS 4.1 - Alternative Transportation- Public Transportation				
Sustainable Sites	Y	Access		1	1	CPP Point
		SS 4.2 - Alternative Transportation - Bicycle Storage $\&$				
Sustainable Sites	Y	Changing Rooms		1	1	CPP Point
Sustainable Sites	Y	Vehicles				
Sustainable Sites	Y	SS 4.4 - Alternative Transportation- Parking Capacity				
		SS 5.1 - Reduced Site Disturbance- Protect or Restore Open				
Sustainable Sites	Y	Space				
Sustainable Sites	Y	SS 5.2 - Reduced Site Disturbance- Development Footprint		1	1	CPP Point
Sustainable Sites	Y	SS 6.1 - Stormwater Management- Rate and Quantity				
Sustainable Sites	Y	SS 6.2 - Stormwater Management- Treatment				
Sustainable Sites	Y	SS 7.1 - Heat Island Effect - Non-Roof				
Sustainable Sites	Y	SS 7.2 - Heat Islands Effect - Roof				
Sustainable Sites	Y	SS 8.1 - Light Pollution Reduction - Exterior Lighting				
		(Campus AG) SS 8.2 - Light Pollution Reduction - Exterior				
Sustainable Sites	Y	Lighting Master Plan				
Sustainable Sites	Y	(Campus AG) SS 9 - Mixed Use Development				
		(Campus AG) SS 10 - Natural Resource Salvage and Rescue,				
Sustainable Sites	Y	and Green Landscaping				
Sustainable Sites		(Campus AG) SS 11 - Greenways and Wildlife Corridors				
Sustainable Sites		Y Effluent				
Sustainable Sites		Y Labs21 SS 12.2 - Safety & Risk Management - Water Effluent				

campus green build baseline checklist and evaluation matrix

Scope	LEED 2.1	LEED Campus Only	Labs21 EPC Only	ltem	Prerequisite	EAST CAMPUS	WEST CAMPUS	Notes
Water Efficiency	Y			WE 1.1 - Water Efficient Landscaping- Reduce by 50%				
				WE 1.2 - Water Efficient Landscaping- No Potable Use or No				
Water Efficiency	Y			Irrigation				
Water Efficiency	Y			WE 2 - Innovative Wastewater Technologies				
Water Efficiency	Y			WE 3.1 - Water Use Reduction - 20% Reduction		1	1	PP/ODC Point
Water Efficiency	Y			WE 3.2 - Water Use Reduction- 30% Reduction				,
Water Efficiency			Y	Labs21 WE 4.1 - Process Water Eficiency				
Water Efficiency			Y	Labs21 WE 4.1 - Process Water Eficiency				
			-	EA Prerequisite 1 - Fundamental Building Systems				
Energy & Atmosphere	Y			Commissioning				
Energy & Atmosphere	Y			EA Prerequisite 2 - Minimum Energy Performance				
Energy & Atmosphere	Y			EA Prerequisite 3 - CFC Reduction in HVAC&R Equipment				
				Labs21 EA Prerequisite 2 - Assess Minimum Ventilation				
Energy & Atmosphere			Y	Requirements				
Energy & Atmosphere	Y			EA 1 - Optimize Energy Performance		4	4	PP/ODC Point
Energy & Atmosphere	Y			EA 2.1 - Renewable Energy- 5%				· · · · · ·
Energy & Atmosphere	Y			EA 2.2 - Renewable Energy - 10%				
Energy & Atmosphere	Y			EA 2.3 - Renewable Energy- 20%				
Energy & Atmosphere	Y			EA 3 - Additional Commissioning				
Energy & Atmosphere	Y			EA 4 - Ozone Protection				
Energy & Atmosphere	Y			EA 5.1 - Measurement and Verification - Building Systems		1	1	PP Point
				(Campus AG) EA 5.2 - Measurement and Verification – Central				
Energy & Atmosphere		Υ		Monitoring and Control				
Energy & Atmosphere	Y			EA 6 - Green Power				
Energy & Atmosphere		Y		(Campus AG) EA 7 - Atmospheric Emissions				
Energy & Atmosphere		Y		(Campus AG) EA 8 - CO2 Reduction				
				(Campus AG) EA 9.1 - Combined Heat and Power – 60%				
Energy & Atmosphere		Υ		Efficiency				
				(Campus AG) EA 9.2 - Combined Heat and Power – 75%				
Energy & Atmosphere		Y		Efficiency				
Energy & Atmosphere			Y	Labs21 EA 10 - Energy Supply Efficiency				
Energy & Atmosphere			Y	Labs21 EA 11 - Improve Laboratory Equipment Efficiency				
Energy & Atmosphere			Y	Labs21 EA 12.1 - Right-size Laboratory Equipment Load				
				Labs21 EA 12.2 - Right-size Laboratory Equipment Load				
Energy & Atmosphere			Y	Metering				

Scope	LEED 2.1 LEED Campus Only	Labs21 EPC Only	ltem	Prerequisite	EAST CAMPUS WEST CAMPUS	Notes
Materials & Resources		Y	Labs21 MR Prerequisite 2 - Hazardous Material Handling			
Materials & Resources	Y		MR 1.1 - Building Reuse- Maintain 75% of Existing Walls, Floors and Roof			
Materials & Resources	Y		Floors and Roof			
Materials & Resources	Y		MR 1.3 - Building Reuse- Maintain 100% of Shell/Structure and 50% of Non-Shell/Non-Structure			
Materials & Resources	Y		MR 2.1 - Construction Waste Management- Divert 50% From Landfill		1 1	ODC Point
Materials & Resources	Y		MR 2.2 - Construction Waste Management- Divert 75% From Landfill			
Materials & Resources	Y		MR 3.1 - Resource Reuse: 5%			
Materials & Resources	Y		MR 3.2 - Resource Reuse- 10%			
Materials & Resources	Y		MR 4.1 - Recycled Content: Use 5% post-consumer or 10% postconsumer + post-industrial			
Materials & Resources	Y		post-consumer + post-industrial			
Materials & Resources	Y		MR 5.1 - Regional Materials- 20% manufactured regionally		1 1	ODC Point
Materials & Resources	Y		MR 5.2 - Regional Materials- 50% extracted regionally			
Materials & Resources	Y		MR 6 - Rapidly Renewable Materials			
Materials & Resources	Y		MR 7 - Certified Wood			
Materials & Resources	Y	Y	(Campus AG) MR 8 - Site Recycling and Solid Waste Management Master Plan & Labs21 MR 8 - Chemical Resource Management			

	D 2.1	D Campus Only	s21 EPC Only		equisite	T CAMPUS	ST CAMPUS	
Scope	Ε Ε Ε		Lab	Item	Prer	EAS	WES	Notes
				IEQ Prerequisite 2 - Environmental Tobacco Smoke (ETS)				
Indoor Envt'l Quality	Y			Control				
Indoor Envt'l Quality			Y	Labs21 IEQ Prerequisite 3 - Laboratory Ventilation				
Indoor Envt'l Quality			Y	Labs21 IEQ Prerequisite 4 - Exterior Door Notification System				
Indoor Envt'l Quality	Y			IEQ 1 - Carbon Dioxide (CO2) Monitoring				
Indoor Envt'l Quality	Y			IEQ 2 - Ventilation Effectiveness				
				IEQ 3.1 - Construction IAQ Management Plan- During				
Indoor Envt'l Quality	Y			Construction		1	1	ODC Point
				IEQ 3.2 - Construction IAQ Management Plan- After				
Indoor Envt'l Quality	Y			Construction		1	1	ODC Point
Indoor Envt'l Quality	Y			IEQ 4.1 - Low-Emitting Materials- Adhesives & Sealants		1	1	ODC Point
Indoor Envt'l Quality	Y			IEQ 4.2 - Low-Emitting Materials- Paints and Coatings		1	1	ODC Point
Indoor Envt'l Quality	Y			IEQ 4.3 - Low-Emitting Materials- Carpet		1	1	ODC Point
Indoor Envt'l Quality	Y			IEQ 4.4 - Low-Emitting Materials- Composite Wood				
Indoor Envt'l Quality	Y			IEQ 5 - Indoor Chemical & Pollutant Source Control		1	1	ODC Point
Indoor Envt'l Quality	Y			IEQ 6.1 - Controllability of Systems- Perimeter Spaces				
Indoor Envt'l Quality	Y			IEQ 6.2 - Controllability of Systems- Non-Perimeter Spaces				
Indoor Envt'l Quality	Y			IEQ 7.1 - Thermal Comfort- Compliance with ASHRAE 55- 1992		1	1	ODC Point
Indoor Envt'l Quality	Y			IEQ 7.2 - Thermal Comfort- Permanent Monitoring System				
Indoor Envt'l Quality	Y			IEQ 8.1 - Daylight and Views- Daylight 75% of Spaces				
Indoor Envt'l Quality	Y			IEQ 8.2 - Daylight and Views- Views for 90% of Spaces				
Indoor Envt'l Quality		Y		(Campus AG) IEQ 9 - Lighting Quality				
Indoor Envt'l Quality		Y		(Campus AG) IEQ 10 - Acoustic Quality				
Indoor Envt'l Quality			Y	Labs21 IEQ 11 - Indoor Environmental Safety		_		
Innovation in Design		V	V	ID 1 Innovation in Design				
Innovation in Design	V	Y	Y	ID 2 - LEED Accredited Professional		1	1	ODC Point
	I	1	I			1	1	
				TOTAL BASELINE:		20	19	
LEED Certification Levels:								

Certified26 to 32 pointsSilver33 to 38 pointsGold39 to 51 pointsPlatinum52+ points

140 HANBURY EVANS WRIGHT VLATTAS ARCHITECTURE + COMPANY PLANNING
