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CAPITAL PROJECTS OFFICE

TO: Business Board

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DATE: September 17, 2002 for September 30, 2002

AGENDA ITEM: 4(b)

ITEM IDENTIFICATION:

Capital Project: University College Residence

JURISDICTIONAL INFORMATION:

Pursuant to Section 5.2 of its Terms of Reference, the Business Board approves expenditures for, and the execution of, capital projects. It is the Business Board's duty to ensure the financial plan, the extent to which full funding is committed and obtainable, and whether there are any significant outstanding and unresolved issues with respect to the project.

PREVIOUS ACTION TAKEN:

None. This is the first time this project has been presented to the Business Board.

HIGHLIGHTS:

The demand for residence places at the University of Toronto, especially places for first year students, has grown steadily over the last few years. University College has the most critical need for student housing of all colleges on the St. George campus, currently accommodating only 12% of its students. This compares unfavourably with similar colleges notably Victoria, St. Michael's and Trinity, where the corresponding numbers are 24%, 24% and 36% respectively. University College's current residences – Whitney Hall and the Sir Daniel Wilson residence – together accommodate approximately 450 students. The proposed University College Residence Expansion will significantly increase this number of student residence accommodations.

In January 2000, a Project Committee was established with the Principal of University College chairing the Committee comprising students, faculty and staff. Key alumni also formed an informal advisory group to the Principal. Over the past two years the College

has examined a number of potential building sites. These have included the western edge of the back campus which was rejected, and more recently an investigation undertaken by Diamond and Schmitt Architects Inc. to add a north/south wing to complete the eastern edge of the Sir Daniel Wilson residence quadrangle in addition to building on an approved building site (Site 22).

This latter plan, presented as a formal Project Planning Report, was approved by the University Affairs Board in April, 2002 with the knowledge that the Sir Daniel Wilson residence quadrangle is currently zoned UOS (University Open Space) within the City of Toronto zoning by-laws and would have required re-zoning of the site. The Project Planning Report was also approved at both the Planning & Budget Committee and the Academic Board; at these meetings it was clearly stated that some revisions of the site were envisaged and that the subsequent re-approval could be required. This revised location was also unanimously approved by University College Council and the University College Alumni Association following numerous town hall meetings that extensively explored the various options.

Discussions were subsequently initiated with the City of Toronto about this proposed location. It was immediately clear that the City was reluctant to consider any rezoning of this site, but were receptive to the concept of increased massing on Site 22 to accommodate the proposed space program. To proceed required the appointment of consultants to explore massing options.

The proposed residence designed by Zeidler Grinnell Partnership Architects on Site 22 will be 11 storeys high and provide 292 beds.

The residence will be approximately 7,400 gross square meters and the total project cost is \$22.0 million.

The target opening date is January 2005.

FINANCIAL AND/OR PLANNING IMPLICATIONS:

Scope of Review:

The University College residence expansion proposal requires the construction of a, 292 bed, dormitory style residence with a newly constructed kitchen. The residence is scheduled to open in 2004/05 and will be operated by the UC residence ancillary.

The model submitted by University College includes the following financial parameters:

1. The projected cost of the new residence is \$22,000,000. This project cost includes approximately \$500,000 for the construction of a kitchen, \$1,015,000 for new furniture and equipment and \$360,000 to maintain the current structural configuration of the drama facility.
2. Current funding for the project has been identified as, \$2,500,000 in donations, of which, 60% has already been raised, and the assumption that

another \$1,000,000 will be raised before the residence opening. Ancillary contributions consist of \$1,485,000 from the UC residence ancillary and \$800,000 from the UC food service ancillary. Academic Priorities Fund support of \$ 70,000 for the drama facility. The remaining \$17,145,000 funded externally.

3. The proposed monthly bed rates for the new residence are set at \$597, with the existing residence at \$570. The combined blended rate would be \$581 per month.

(See Appendix 1 for Model Criteria & Summary)

Financial Analysis:

The proposed UC residence is very similar in size and style to the New College residence and the expectation is that operationally, they would be similar. The revenue and expense projections contained within the UC financial model were compared to those submitted by the New College residence operation as part of their request for a Capital Project appropriation increase.

The UC model was found to contain expenditures levels that were on average \$252,000 lower than those contained within the New College submission. The difference mainly being attributed to lower staffing costs. The monthly bed rates were also compared and found to be slightly higher in the UC model than the NC model. The starting monthly bed rate at UC is \$597 as opposed to \$560 for New College. The rate difference of \$37 per month reflects a 7% premium over New College, with this premium increasing to 8% by year 10. The average capital renewal provision in UC model exceeds the New College model by approximately \$670,000 per year. This mainly attributed to the difference in age of the two buildings.

Ancillary contributions of \$2,285,000 are comprised of \$1,485,000 from the UC residence ancillary and \$800,000 from the UC food ancillary. In both cases, these contributions will consume most of the unappropriated surplus anticipated in their current long-range plans. The residence ancillary expects to have \$534,000 remaining in its capital renewal reserve at the beginning of the 2004-05 fiscal year. The low capital renewal reserve represents a risk factor in this proposal, particularly when combined with annual break-even for the combined ancillary in year 5 and cumulative break-even in year 8 and the deferral of capital renewal contributions on the new residence until year 6.

The current financial model yields a per bed cost of \$71,370, based on the total project costs specifically related to the residence portion only. On an overall total project cost basis the cost per bed is \$75,342. The annual cost of external financing is \$1,587,935 based on the ancillary meeting its internal funding projections of \$4,855,000.

Identified Risk Factors:

1. Outstanding donations of \$1,000,000 will be raised by September 2004.
2. Ancillary contributions totalling \$2,285,000 will be available for project funding.
3. Construction costs exceeding current project projections.

Sensitivity analysis:

Since the capital project contains multiple risk factors, a sensitivity analysis was prepared to account for the various possibilities. Medium-case and worst-case scenarios were modelled. The results of the financial analysis are summarized in Appendix 2.

Conclusion:

The financial plan submitted by University College will support the current level of construction costs and meet the required breakeven criteria of year 5 annually and year 8 cumulatively. However, this is contingent on three underlying risk factors. Firstly, the ancillary contributions, which are based on forecasted surpluses, actually materialize and are available in 2004. Secondly, the assumption that UC will be able to raise \$1,000,000 in additional donations before the opening of the residence in 2004. Thirdly, construction costs do not exceed current project projections. The first risk factors is categorized as high, with the second and third categorized as low. Overall the project would be categorized as medium risk.

This financial model has been investigated and approved by the Financial Services Department and conforms to University policy guidelines.

RECOMMENDATION:

Subject to the understanding that the rates of the University College residence ancillary operation are increased sufficiently to ensure that the operation continues to recover its own costs,

THAT the Business Board concur with the following parts of the prospective recommendation of the Academic Board:

- THAT the project cost of \$22,000,000 be approved, with the funding sources as follows:
 1. Donation from University College of \$2,500,000
 2. University College Residence Ancillary allocation of \$1,485,000
 3. University College Food Service allocation of \$800,000
 4. University Infrastructure Investment Fund allocation of \$70,000
 5. Financing in the amount of \$17,145,000 to be repaid from the residence fee revenues over a 25
 6. -year amortization period at 8% per annum.

THAT the Vice-President, Business Affairs be authorized to execute the University College Residence project at a cost not to exceed \$22,000,000 and to arrange such interim and long-term financing as required, from either internal or external sources.

UC Residence Proposal - September 2002 Submission

Model Criteria & Summary

Standard criteria:		
New Residence scheduled to open September 2004 (2004-05)		
<u>Number of beds</u>		
existing	452	
new-original	292	
new-additional beds	0	
Total	<u>744</u>	
Occupancy rates	98.00%	
<u>Mortgage terms:</u>		
rate	8%	
amortization-years	25	
compounding (monthly)	12	
<u>Capital renewal to start in year:</u>		
existing	1	
new	6	
and to be calculated at a rate of	1.50%	
<u>Breakeven target for total ancillary operation:</u>		
annual (year)	2008-9	5
cumulative (year)	2011-12	8

Variables within various models:

<u>Project costs:</u>	Building	Furn & Equip	Total
Residence -original cost for 292beds	\$20,125,000	\$715,000	\$20,840,000
Kitchen: Food Service	\$500,000	\$300,000	\$800,000
Drama	\$360,000		\$360,000
Construction costs for total project	\$20,985,000	\$1,015,000	\$22,000,000
Max construction cost borne by operations	\$20,985,000	\$1,015,000	\$22,000,000
Shortfall			

<u>Cost per bed (based on projects attributable to residence only):</u>	<u>Annual cost of external financing based on total cost (1):</u>	
Residence	\$71,370	\$1,587,935 -net of \$3.695 mil funding
Residence (total)	<u>\$71,370</u>	<u>\$1,587,935</u>

<u>Sources of funding:</u>	Residence	Food Service	Drama	Total
Donations-original submission	\$2,210,000.00		\$290,000.00	\$2,500,000.00
APF Support			\$70,000.00	\$70,000.00
Departmental contributions	\$1,485,000.00	\$800,000.00		\$2,285,000.00
Net funding (excl. financing)	\$3,695,000.00	\$800,000.00	\$360,000.00	\$4,855,000.00
External financing (1)	\$17,145,000.00			\$17,145,000.00
	<u>\$20,840,000.00</u>	<u>\$800,000.00</u>	<u>\$360,000.00</u>	<u>\$22,000,000.00</u>

Monthly bed rates in year 1 and year 5:

	<u>2004-05</u>	<u>avg annual incr to Yr 5</u>	<u>2008-09</u>
existing	\$570	6.25%	\$726
new	\$597	5.00%	\$726
Blended rate*	<u>\$581</u>	<u>5.63%</u>	<u>\$726</u>

*using weighted average calculation

Appendix 2

UC Residence Proposal - September 2002 Submission

Sensitivity Analysis on Opening Rates if Project Costs Increase and Funding Shortfall Occurs

	Model 1	Model 2	Model 3	Model 4
	<u>UC Submission</u>	<u>Medium Case</u>	<u>Worst Case</u>	<u>Original Policies UC Submission</u>
Project Cost Overrun of 10%	\$0	\$0	\$2,150,000	\$0
Donation Shortfall	\$0	\$0	\$1,000,000	\$0
Ancillary Contribution Shortfall	\$0	\$2,285,000	\$2,285,000	\$0
<u>Monthly Residence Rate Required</u>				
New Residence Opening Rate	\$597	\$605	\$640	\$682
Existing Residence Opening Rate	\$570	\$577	\$611	\$651
Blended Residence Opening Rate	\$581	\$588	\$622	\$663
<u>Monthly Rate Change from Submitted Model</u>				
New Residence	N/A	\$8.00	\$43.00	\$85.00
Existing Residence	N/A	\$7.00	\$41.00	\$81.00
<u>Percentage Change from Submitted Model</u>				
New Residence	N/A	1%	7%	14%
Existing Residence	N/A	1%	7%	14%
IRR - Combined Operations	9.04%	9.34%	9.69%	12.11%
IRR - New Residence	3.36%	3.56%	3.57%	5.25%
NPV - Combined Operations (Cashflows before financing costs and net of capital cost)	\$2,755,458	\$3,588,506	\$4,940,321	\$11,610,875



4 September 2002

University College Residence
University of Toronto

Zeidler Grinnell Partnership



ARCHITECTS



UNIVERSITY COLLEGE RESIDENCE EXPANSION
SOUTH ELEVATION



UNIVERSITY COLLEGE RESIDENCE EXPANSION
WEST ELEVATION

4 September 2002

University College Residence
University of Toronto

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