REPORT TO THE BOARD OF GOVERNORS

SUBJECT UNDERGRADUATE LIFE SCIENCES TEACHING LABS RENEWAL

MEETING DATE DECEMBER 2, 2014

Forwarded to the Board of Governors on the Recommendation of the President

APPROVED FOR SUBMISSION

Arvind Gupta, President and Vice-Chancellor

and And

Presented By David Farrar, Provost & Vice-President Academic

Lisa Castle, Vice-President Human Resources

(Acting Vice-President Resources & Operations)

Simon Peacock, Dean, Faculty of Science

Gavin Stuart, Vice-Provost, Health and Dean, Faculty of Medicine John Metras, Managing Director, Infrastructure Development

Michael White, Associate Vice-President, Campus + Community Planning

Peter Smailes, Treasurer

Al Poettcker, President & CEO, UBC Properties Trust

Report Date November 12, 2014

DECISION REQUESTED

IT IS HEREBY REQUESTED that the UBC Board of Governors grant BOARD 2 approval for the Undergraduate Life Sciences Teaching Labs Renewal project with authorization to issue the development permit and a funding release of \$5,500,000 to complete working drawings and tender documents and to proceed with swing space renovation and site works.

Capital Budget \$80,000,000 Operating Budget \$1,503,000

Schedule Program

Authorization to issue development permit Proceed to working drawings and tender

Funding Release \$5,500,0000

Information

Expenses to Date \$498,294 Funding releases to Date \$1,500,000

EXECUTIVE SUMMARY

The Undergraduate Life Sciences Teaching Labs Renewal project involves an \$80 million renewal and expansion of the Biological Sciences complex to provide modern, well equipped teaching laboratories for over 2,000 students enrolled in undergraduate life sciences programs. This will replace and consolidate deteriorated teaching labs in the Biological Sciences Centre and North, Wesbrook and D.H. Copp buildings. The project will also address seismic risk associated with three of these buildings and ultimately result in the elimination of up to \$85M in deferred maintenance.

A functional program has been completed and aligned with the proposed project budget.

Funding is proposed to be contributed from three sources:

- 1) Pending Treasury Board Approval, the Ministry of Advanced Education has approved in principle a contribution (\$21.25 million) toward the renewal portion of the project.
- 2) An internal loan (\$21.25 million) repaid from the Central Operating Budget.
- 3) An internal loan (\$37.5 million) repaid from the Trek Endowment using the 3.5% annual spending allocation attributable to \$57.3 million in incremental endowed land development revenue made possible in part by this project. This land development revenue would be generated by shifting two rental University Housing projects (for those who work at or attend UBC) from Wesbrook Place to form part of the redevelopment of the current General Services & Administration Building (GSAB) and D.H. Copp building sites on University Boulevard. GSAB tenants have been relocated as part of a previously planned project to the Gerald McGavin, Donald Rix and Technology Enterprise Facility 3 buildings making the site available for development. Functional programming for the GSAB site and planning for the demolition of GSAB are underway. D.H. Copp uses would be shifted to the renewed and expanded Biological Sciences complex after its targeted completion in July 2017 thus making the D.H. Copp site available for development. Shifting the rental projects from Wesbrook Place frees up Market Leasehold gross buildable area in Wesbrook Place that would consequently generate \$57.3 million in prepaid lease revenue for endowment. The annual 3.5% endowment spending allocation on this amount will support debt service for a \$37.5 million loan for the Undergraduate Life Sciences Teaching Labs (Biological Sciences Renew) project. A schematic showing the flow of funds is provided in Attachment 1.

This represents a creative opportunity to develop a vibrant mixed-use academic gateway to campus, while at the same time supporting a much needed infrastructure renewal project impacting thousands of students.

Campus & Community Planning (C&CP) is in the process of developing, testing and consulting on options for the University Boulevard gateway area, including: the academic programming for the GSAB and Copp sites; the mix of uses in the precinct and integration of University Housing; and the design of gateway buildings and public realm to reinforce the academic gateway and arrival experience.

This Board 2 approval request is specifically for the Undergraduate Life Science Teaching project, including the proposed funding model. The project is a top priority in the UBC Capital Plan and received Board 1 approval on April 14, 2014. Separate Board approvals will be sought at the appropriate time for academic/housing projects in the University Boulevard area.

COMMITMENT(s)

Place and Promise The University provides the opportunity for transformative student learning through outstanding teaching and research, enriched educational experiences, and rewarding campus life.

Place and Promise Foster UBC's globally influential areas of research excellence.

ACTION(s)

Develop new global centres of excellence at UBC with international partners.

Enhance infrastructure to support leading edge research.

Description & Rationale

Background and Academic Need

UBC delivers life sciences teaching programs to more than 2,000 FTE students, preparing students for further study or a career in the life sciences sector. Laboratory experiences are essential to learning, providing hands-on opportunities to explore practical problems and conduct research.

Life sciences teaching programs are currently delivered in deteriorating buildings that are 1960-70's era or older and represent significant seismic risk. Original lab configuration and infrastructure hampers the ability of instructors to develop progressive teaching methods centered on student collaboration. Teaching lab sizes limit the ability of programs to respond to increased student demand for placement. Building finishes and systems are beyond or nearing the end of their serviceable life and renovation of individual labs is limited by the inability to improve overall deteriorating building infrastructure.

The proposed project will provide modern, well equipped laboratories and a consolidated home for undergraduate students and teaching faculty in the following programs:

- Faculty of Science: Biology, delivered by Botany and Zoology, currently located in Biological Sciences North Wing and Centre Block
- Faculty of Science: Microbiology & Immunology (M&I), currently located in the **Wesbrook Building**
- Faculty of Medicine: Biochemistry & Molecular Biology (B&MB), and Cellular and Physiological Sciences (CAPS), currently located in the D.H. Copp Building

Project Description

The project will renew Biological Sciences North Wing (built 1976) and replace the deteriorated Biological Sciences Centre Block (built 1948) and 2-storey Workshop Building with a new 5-storey addition on the east side of the courtyard. A project site plan is provided in Attachment 2. Total project area, including rooftop research and teaching greenhouse space, is 174,795 gross square feet. The project builds on the successful renewal of the Biological Sciences West and South Wings completed in 2011 as part of the Knowledge Infrastructure Program funded by the Federal and Provincial governments.

Demolishing Biological Sciences Centre and renewing Biological Sciences North will reduce deferred maintenance by \$45M and significantly reduce structural seismic risks. Teaching programs in Copp and Wesbrook are the primary functions remaining in those buildings, and relocating the programs paves the way for future demolition and an additional deferred maintenance reduction of \$40M.

In the short-term, a consultant team has been engaged to develop a scope of work for functional and life safety upgrades to Wesbrook and minor safety upgrades to Copp which will allow these facilities to be used for swing space to facilitate the Undergraduate Life Sciences Teaching Lab renewal and then potentially the planned Undergraduate Chemistry Teaching Lab renewal project (Wesbrook only). Government funding was secured for a limited portion of the life safety upgrade work and this scope of work has been tendered, awarded, and is under construction. The remainder of the swing space upgrade project has been tendered and the value of this work is noted in the budget as "Swing space cash". Award of contract to undertake this work is pending Board 2 approval and release of funding. The design team also investigated undertaking a limited seismic upgrade to Wesbrook; however the scope of work required was far more extensive than allowed for in the project schedule and budget, and in consultation with Risk Management Services a decision was made to defer this upgrade. It is anticipated that Wesbrook will be demolished following its use as swing space for lab-intensive construction projects.

Functional Program

Resource Planning Group (RPG) was retained to develop a functional program for the project. Total new and renewed building area is approximately 15,408 gross square metres (165,840sf) plus 832 gross square metres (8,956sf) of rooftop research and teaching greenhouse space, for a total of 16,240 gross square metres (174,795sf). The project will include:

- Teaching laboratories for Biology, M&I, B&MB, and CAPS
- Teaching lab support, including preparation rooms, environment chambers, and plant and specimen collections
- Instructors' offices and administrative support
- Student help centre, informal learning space, and student association offices
- Faculty of Science Co-op for life sciences programs (currently in Copp)
- Replacement lecture theatres and classrooms
- Replacement and upgrade of Biological Science complex functions currently in North Wing and Centre Block, including Botany administration hub, post-doctoral and graduate student offices, the Biolmaging Facility, research greenhouse and growth chambers, loading/receiving, central stores, workshops, aquatics research and hummingbird lab.

COSTS
Capital &
Lifecycle Operating

| Capital Development Cost | | | | | | | |
|--------------------------------------|-----|--------|-----|-----|-----------|-----|-----|
| The following was prepared by UBC | | | | | | | |
| Project Services: | Boa | rd 1 | Ī | | Board 2 | | |
| | | \$000s | \$/ | GSF | \$000s | \$/ | GSF |
| Construction | \$ | 51,824 | \$ | 296 | \$ 53,396 | \$ | 305 |
| Design/Construction Contingency | \$ | 1,785 | | | \$ 3,443 | | |
| Construction Management | \$ | 2,073 | | | \$ 2,073 | | |
| Cash Allowances | | 2,633 | | | 2,633 | | |
| Planning & Design | | 5,182 | | | 5,360 | | |
| Furniture & Equipment | | 3,750 | | | 3,023 | | |
| Commissioning, Inspection, Moving | | 829 | | | 617 | | |
| IIC, CAC, Permits, Insurance & Legal | | 525 | | | 863 | | |
| Project Management | | 1,462 | | | 1,462 | | |
| UBC IT/AV/Security Allowance | | 2,000 | | | 2,000 | | |
| Swing Space | | 2,500 | | | 2,922 | | |
| Additional Wesbrook upgrades | | 2,580 | | | - | | |
| Subtotal | \$ | 77,144 | \$ | 443 | \$ 77,792 | \$ | 444 |
| Tax | | 1,230 | | | 1,353 | | |
| Retained Risk Contingency | | 446 | | | 855 | | |
| Construction Financing | | 1,180 | | | - | | |
| Total Project Budget | \$ | 80,000 | \$ | 458 | \$ 80,000 | \$ | 458 |

| Operating Budget | | | |
|-------------------------------------|------------------|----|-------|
| Operating Costs | Annual | | \$/GF |
| Annual Operations + Maintenance | \$ 1,113,444 | \$ | 6.37 |
| Utilities | \$ 389,793 | \$ | 2.23 |
| Total O & M Cost | \$ 1,503,237 | \$ | 8.60 |
| | | | |
| Less: Savings from Demolished Space | \$ 474,931 | | 5.67 |
| Net O & M Cost | \$ 1,028,306 | | |
| | | | |
| Life Cycle Capital Costs | Annual | ; | \$/GF |
| Cyclical Maintenance | \$ 613,530.00 | \$ | 3.51 |
| Modernization / Upgrade | \$ 162,559.00 | \$ | 0.093 |
| Total Capital Renewal Cost | \$ 776,089.00 | \$ | 3.60 |

Faculties of Science and Medicine will pay annual net O&M costs for their respective space. Central operating budget will fund Capital Renewal requirements to the extent possible.

FINANCIAL

Funding Plan

Funding Sources, Impact on Debt Ratios

The Undergraduate Life Sciences Teaching Labs project was included as the top priority in the last UBC Five-Year Capital Plan submission to the Provincial Government. This Plan proposed that funding for the project be split 50/50 between the Provincial Government and UBC. The Province has indicated that it has approved in principle the renewal portion of the project only, estimating its cost to be in the range of \$42.5 million. Pending Treasury Board approval in December 2014, the Province would contribute \$21.25 million toward this renewal component. The following funding plan is therefore proposed, including UBC internal sources for the balance of the project funding.

| Funding Source | |
|---|--------------|
| Provincial Government – Pending Treasury Board approval, the Ministry of Advanced Education has approved in principle a contribution toward the renewal portion of the project. | \$21,250,000 |
| Central Operating Budget - Internal loan (30 years, 5.75%) repaid from Central Operating Budget. | \$21,250,000 |
| Trek Endowment – Internal loan (35 years, 5.75%) repaid from Trek Endowment using 3.5% annual spending allocation attributable to the \$57.3 million endowed land development revenue made possible by this project. Details noted below. | \$37,500,000 |
| Total Funding | \$80,000,000 |

The \$57.3 million endowed land development revenue would be generated by shifting two rental University Housing projects (for those who work at or attend UBC) from Wesbrook Place to form part of the redevelopment of the current General Services & Administration Building (GSAB) and D.H. Copp building sites on University Boulevard. Shifting these rental projects would free up 301,500 ft² (132,700 ft² plus 168,800 ft²) of Market Leasehold gross buildable area in Wesbrook Place that would consequently generate \$57.3 million in prepaid lease revenue (\$190/ft² net of servicing and IICs) for endowment. The annual 3.5% endowment spending allocation on this amount will support debt service for a \$37.5 million loan amortized over 35 years at 5.75%. A schematic showing the funds flow is provided in Attachment 3.

GSAB tenants have been relocated to available office space in the Gerald McGavin, Donald Rix and Technology Enterprise Facility 3 buildings. This is part of a proactive strategy to address seismic risk, deferred maintenance and inadequacy of the building for current requirements. Functional programming for the GSAB site and planning for demolition of GSAB are underway. D.H. Copp uses would be shifted to the renewed and expanded Biological Sciences complex after its targeted completion in July 2017 thus making the D.H. Copp site available for development. Both GSAB and D.H. Copp have been assessed as very high risk for structural failure in the event of a seismic event and therefore their demolition represents a net benefit to the University from a risk management perspective.

The current UBC liquidity plan includes the required internal financing for this project, which is a top priority in the UBC Capital Plan. An assessment will be made prior to Board 3 to determine whether sufficient liquidity is available for the project to proceed on the proposed schedule.

UBCPT Financial Analysis of Proposed Land Use Change to GSAB and D.H. Copp Building Sites

The following value to UBC would be generated by shifting rental University Housing projects from Wesbrook Place to Academic lands on University Boulevard:

GSAB Site:

Site Area 47,400 ft² (4,400 m²)

Assumed built form 6-storey wood frame

Assumed FSR 2.8

Rental GBA 132,700 ft²

Copp Site:

Site Area 60,300 ft² (5,600 m²)

Assumed built form 6-storey wood frame

Assumed FSR 2.8

Rental GBA 168,800 ft²

Benefit to Wesbrook Place:

Shifting these rental projects would free up 301,500 ft² (132,700 ft² plus 168,800 ft²) of Market Leasehold gross buildable area (GBA)

Consequently, 301,500 ft² of wood-frame GBA in Wesbrook Place would return to UBC:

- \$57.3 million in prepaid lease revenue (\$190/ft² net of servicing and IICs)
- \$7.5 million in IIC (infrastructure impact charges) revenue (net increase market rate over rate for rental University Housing)
- \$8.0 million in the cost of servicing that could be applied to University Boulevard
- \$1.0 million in CAC (community amenity charges) revenue

Total return to UBC \$73.8 million

Once built, the new wood frame rental projects would generate Appraisal Surplus values of approximately \$33 million to \$38 million (\$110 to \$125/ft²).

The \$57.3 million pre-paid lease revenue would be endowed and the associated increase in annual endowment spending be used to support financing for Undergraduate Life Sciences Teaching Labs project.

SCHEDULE

Implementation Schedule

Implementation Timeline

The project is targeting completion in June 2017. This will allow time for set-up of teaching labs prior to the start of the 2017/18 academic year. There have been no revisions to the projected schedule since Board 1 reporting.

| | Board 1 | Board 2 |
|---------------------------------------|----------------|----------------|
| Executive 1, 2 | July 2013 | July 2013 |
| PPAC | September 2013 | September 2013 |
| Executive 3 | November 2013 | November 2013 |
| Information report to Board | February 2014 | February 2014 |
| UBC Board 1 | April 2014 | April 2014 |
| Treasury Board Approval of Provincial | Fall 2014 | December 2014 |
| Funding Contribution | | |
| UBC Board 2 | December 2014 | December 2014 |
| UBC Board 3 | June 2015 | June 2015 |
| Construction Start | July 2015 | July 2015 |
| Substantial Completion | June 2017 | June 2017 |
| Final Occupancy | July 2017 | July 2017 |
| Board 4 | June 2019 | June 2019 |

RISKS

Project Risks

Financial, Operational & Reputational

The primary risk for the project is that the Land Development and Central Operating Budget revenues required for project funding are not realized. This would create a funding shortfall requiring other projects supported by the Central Operating Budget to be potentially deferred. UBC Properties Trust has confirmed the potential land development revenue for the market housing development based on extensive experience and track record with similar developments on campus.

BENEFITS

Benefits of the proposed project include:

Learning, Research, Financial, Sustainability & Reputational

- Provides modern teaching labs for 2,000+ students in life sciences program.
- Addresses seismic risk in three high or very high risk buildings
- Eliminates up to \$85 million in deferred maintenance
- Provides rental University Housing for those who work at or attend UBC

CONSULTATION

Relevant Units, Internal & External Constituencies The project is currently ranked as a top priority in the UBC Capital Plan and is a top priority for the Faculties of Science and Medicine. Infrastructure Development - Facilities Planning has worked with the user group to develop the functional program and a swing space plan. The design team has completed schematic design and UBC Project Services has provided preliminary budget costing based on the schematic design drawings. Campus & Community Planning (C&CP) has provided input on off-site utilities, sustainability objectives, siting, and integration with the Public Realm. UBC Energy & Water Services has provided a preliminary assessment of utilities requiring relocation.

Architect selected: Diamond Schmitt/CEI Architecture



The project is managed by UBC Project Services (Infrastructure Development). Project Services managed the successful renewal of Biological Sciences West + South which was completed on time and under budget in 2011.

Following Board 1 approval the development review process for DP 14030 has included reviews by the Advisory Urban Design Panel, where the design was supported, and by the Development Review Committee.

A public open house was held on October 29, 2014 in the atrium of the Earth Sciences Building. Over 50 people attended the open house (35 signed the attendance sheet) and 10 feedback forms were received. Generally, the response to the project was positive. The project is at the stage where a Development Permit can be issued by the Director of Planning.

The planning and approval processes for the redevelopment of the GSAB and Copp sites are underway. Staff are in the process of developing, testing and consulting on options for the University Boulevard gateway area, including: the academic programming for the GSAB and Copp sites; the mix of uses in the precinct and integration of University Housing; and the design of gateway buildings and public realm to reinforce the academic gateway and arrival experience.

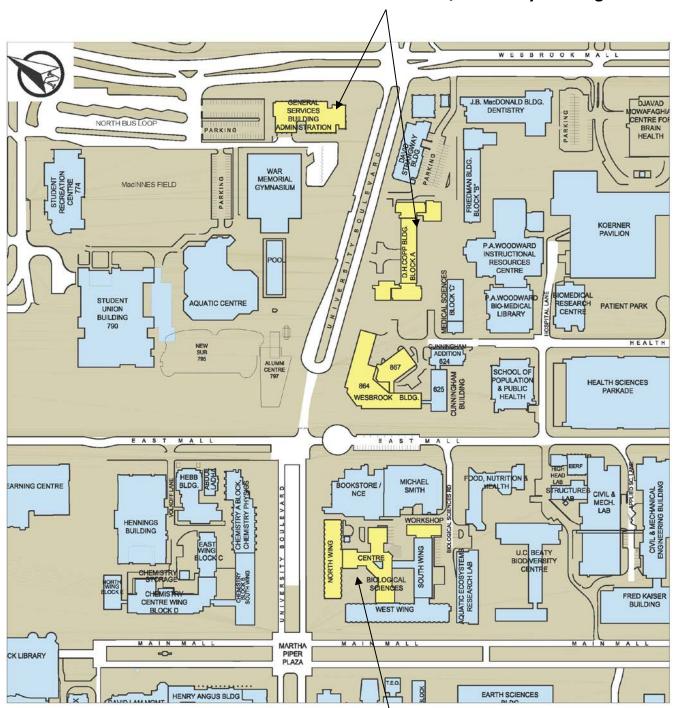
| UBCPT COMMENTS Complete for all reports that include a property component | Date of Review: | | Signed Off by: | |
|--|-----------------|--|----------------|---------------------------------|
| Previous Report Date | e April 14, 20 | 14 | | |
| Decision | • | proval with authorization to undertake schematic design | | me consultant and for a funding |
| Action / Follow Up | | | | |
| B | 5.h 4 | 2044 | | |
| Previous Report Date | e February 4, | 2014 | | |
| Decision | n Informatio | n to Board | | |
| Action / Follow Up | | | | |

Attachments

- 1. Context Map with Relevant Buildings
- 2. Biological Sciences North & Centre Project Site
- 3. Land Development Funding Model Flow of Funds
- 4. Undergraduate Life Sciences Teaching Labs Renewal Preliminary Design Rendering
- 5. Capital Project Accountability Scope & Planning
- 6. Capital Project Accountability Budget & Funding

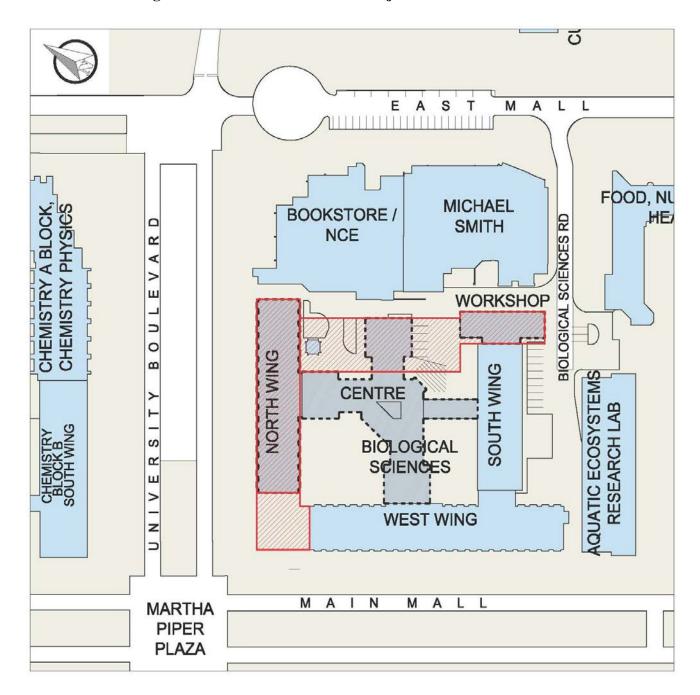
Attachment 1: Context Map with Relevant Buildings

Potential Mixed-Use Academic/University Housing Sites

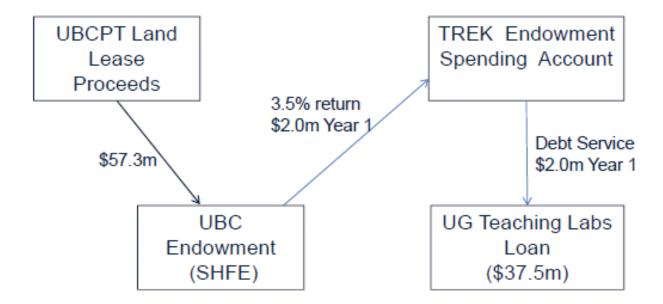


Undergraduate Life Sciences
Teaching Labs Project Site

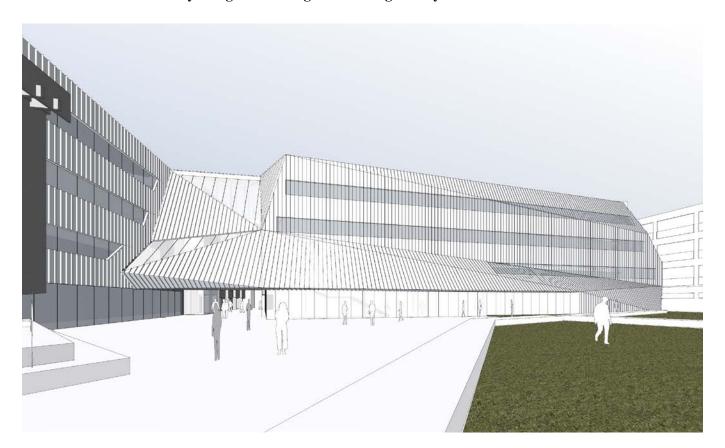
Attachment 2: Biological Sciences North & Centre Project Site



Attachment 3: Land Development Funding Model – Flow of Funds



Attachment 4: Preliminary Design Rendering - East Wing Courtyard Elevation



Attachment 5: Capital Project Accountability Scope & Planning

| LIRC | PROJECT NAME | | | | CURRENT APPROVAL S | STATUS | | |
|--|---|--|--|--|--|--|---|---|
| | Project Name: | Undergraduate L | ife Sciences Te | aching Labs | | | Level | Approval Dat |
| The state of the s | Department/Unit: | Faculty of Science | | | Executive: | | 3 | Dec. 16, 2003 |
| | Sponsor: | David Farrar, Pro | vost & VP Acade | emic | Board: | | 1 | April 14, 2014 |
| ROJECT | DESCRIPTION | | | | FUNCTIONAL PROGRAM | VI | | |
| Developme | nt Type: | Renovation & Exp | ansion | | Space Type | Net SM | Net SF | Gross SF |
| acility Typ | oe: | Teaching Labora | tories, Classro | oms, Office & | Expansion | 6,489 | 69,847 | 115,24 |
| | | Support; Core Bu | ilding & Resear | rch Functions | Renovation | 3,052 | 32,851 | 50,59 |
| Fross Build | ding Area: | 174,795 gross so | quare feet (16,2 | 40 gsm) | Rooftop Greenhouses | 693 | 7,464 | 8,95 |
| Capital Cos | | \$80,000,000 | | | | | | |
| .ocation/Si | | UBC Vancouver | | | Total | 110,162 | 174,79 | |
| rimary Us | ers / Tenants: | Science - Botany, op; Medicine - Bio | | | | | | |
| PROJECT | RATIONALE & BI | ENEFITS | | | | | | |
| leed/Ben | | | Description | | | | | |
| | Research Environ | ment | Modern, well- | equipped tea | ching laboratories for stude | ents in life scien | ces programs | |
| Student An | | | | | | | | |
| Community Other Bene | | | | | consolidate deteriorated tea | | 5: 1 : 10: | |
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| Board 1 Board 2 Board 3 Construct Substanti Occupand Board 4 Project Ma Architect AUDP Review | cion Start al Completion cy MENT PROCESS anager diew ew Committee | Diamond Schmit | up to \$85Mino housing. Rep completes the Target April-2014 Nov-2014 Jun-2015 Jun-2017 July 2017 Jun-2019 | deferred main lacement of the renewal of re Actual | tenance. Completion of the le deteriorating Biosci comp search facilities for Zoology SUSTAINABILITY GOAL Indicator Certification: Energy Efficiency Level: Energy Use Intensity: GHG Reduction: Const Waste Recycling Water Use Efficiency Innovative Features: Construction Manager Infrastructure Development | project will up the lex research sup and Botany. S Tar. LEED Gold TBD % better the 221 kWh/tt² TBD % better the TBC % recyclin TBD % better the table with the table with the table will be the table will be table with the table will be table with the table will be tab | get man MNECB man standard g rate man standard | re-development uilding functions Actual |
| Board 1 Board 2 Board 3 Construct Substanti Occupand Board 4 DEVELOPI Project Ma Architect AUDP Revieue Dev. Revieue | cion Start al Completion cy MENT PROCESS anager diew ew Committee | Date Nov-2014 Oct-2014 | up to \$85Mino housing. Rep completes the Target April-2014 Nov-2014 Jun-2015 Jun-2017 July 2017 Jun-2019 | deferred main lacement of the renewal of re Actual | tenance. Completion of the le deteriorating Biosci comp search facilities for Zoology SUSTAINABILITY GOAL Indicator Certification: Energy Efficiency Level: Energy Use Intensity: GHG Reduction: Const Waste Recycling Water Use Efficiency Innovative Features: Construction Manager Infrastructure Development | project will up the lex research sup and Botany. S Tar. LEED Gold TBD % better the 221 kWh/tt² TBD % better the TBC % recyclin TBD % better the table with the table with the table will be the table will be table with the table will be table with the table will be tab | get man MNECB man standard g rate man standard | re-development uilding functions Actual |
| Board 1 Board 2 Board 3 Construct Substanti Occupand Board 4 DEVELOPI Project Ma Architect AUDP Revieue Dev. Revieue | cion Start al Completion cy MENT PROCESS anager view ew Committee en House ent Permit | Date Nov-2014 Oct-2014 Oct-2014 | up to \$85Mino housing. Rep completes the Target April-2014 Nov-2014 Jun-2015 Jun-2017 July 2017 Jun-2019 | deferred main lacement of the renewal of re Actual | tenance. Completion of the le deteriorating Biosci comp search facilities for Zoology SUSTAINABILITY GOAL Indicator Certification: Energy Efficiency Level: Energy Use Intensity: GHG Reduction: Const Waste Recycling Water Use Efficiency Innovative Features: Construction Manager Infrastructure Development | project will up the lex research sup and Botany. S Tar. LEED Gold TBD % better the 221 kWh/tt² TBD % better the TBC % recyclin TBD % better the table with the table with the table will be the table will be table with the table will be table with the table will be tab | get man MNECB man standard g rate man standard | re-development uilding functions Actual |
| Board 1 Board 2 Board 3 Construct Substanti Occupand Board 4 DEVELOPI Project Ma Architect AUDP Revie Public Ope Developm Building P | ion Start al Completion by MENT PROCESS anager view bw Committee en House ent Permit | Date Nov-2014 Oct-2014 Oct-2014 Jan-2015 Jun-2015 | up to \$85M in a housing. Rep completes the Target April-2014 Nov-2014 Jun-2015 Jun-2015 Jun-2017 July 2017 Jun-2019 | deferred main lacement of the renewal of re Actual | tenance. Completion of the le deteriorating Biosci comp search facilities for Zoology SUSTAINABILITY GOAL Indicator Certification: Energy Efficiency Level: Energy Use Intensity: GHG Reduction: Const Waste Recycling Water Use Efficiency Innovative Features: Construction Manager Infrastructure Development | project will up the lex research sup and Botany. S Tar. LEED Gold TBD % better the 221 kWh/tt² TBD % better the TBC % recyclin TBD % better the table with the table with the table will be the table will be table with the table will be table with the table will be tab | get man MNECB man standard g rate man standard | re-development uilding functions Actual |
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| UBC | | | | | | | | | | | | | | |
|--|--|---|---|--|---|--|---------------|--|----------------------------|---|---------------------------------------|---------------------------------------|--|--|
| | Project Name: | Undergraduate Life S | ciences T | Teaching L | abs | | | | | | | | | |
| | Department/Unit: | Faculty of Science, Fa | culty of M | edicine | | | | | | | | | | |
| | Sponsor: | David Farrar, Provost | & VP Aca | dem ic | | | | | | | | | | |
| APITAL | BUDGET (\$000s | | | | | | LIFE-CYCLE | OPERATING | BUI | OGET | | | | |
| | evelopment Cos | | •n | 000s | | \$/GSF | Operating C | | | \nnual \$ | \$/0 | 29F | Funding Sou | |
| onstructi | - | <u>.</u> | \$ | 53,396 | \$ | 305 | Ops & Maint | | | 1,113,444 | \$ | 6.37 | Faculties | |
| | | | \$ | 3,443 | ٦ | 303 | Utilities | enance | \$ | 389,793 | | 2.23 | Faculties | |
| | nstruction Continge on Management | ericy | \$ | 2,073 | | | Gross Total | OSM Cost | - | 1,503,237 | - | 8.60 | Faculties | |
| ash Allow | | | Y | 2,633 | | | | vings from | \$ | 474,931 | - | 5.67 | ruculuca | |
| lanning 8 | | | | 5,360 | | | | ed Space** | Ť | 17 1,001 | · · | 0.01 | | |
| | & Equipment | | | 3,023 | | | Net O&M Co | · · · · · · · · · · · · · · · · · · · | s | 1.028.306 | | | Faculties | |
| | oning, Inspection, | Movina | | 617 | | | | d from Whitest | | | excludes | s landsca | | |
| | Permits, Insuranc | | | 863 | | | | NS: Bio Ctr 59, | | | | | | |
| | anagement | <u></u> | | 1,462 | | | 1 | top Mech PH 2 | | • | | - | | |
| | //Security Allowar | nce | | 2,000 | | | 1 | ke 6738GSF; V | | | | | | |
| wing Spa | | | | 2,922 | | | | 2 GSF (7782 GS | | | | | | |
| ubtotal | | | \$ | 77,792 | Ś | 444 | Life-Cycle C | apital Costs | - | Annual \$ | \$/0 | SSF | Funding Sou | |
| ax | | | Ť | 1,353 | Ť | | Cyclical Main | - | \$ | 613,530 | - | 3.51 | Central | |
| | Risk Contingency | | | 855 | | | Modernizatio | | \$ | 162,559 | \$ | 0.93 | Central | |
| | on Financing | | | - | | | | enewal Cost | _ | 776,090 | \$ | 4.44 | Central | |
| | ject Budget | | \$ | 80,000 | \$ | 458 | | | Ť | , | - | | | |
| | _ | | * | | _ | | | | | | | | | |
| Sanital Dec | dest Naton | \$/GSF unit rates will v | anywith a | mac that a | ro ir | n ronowed | Opposition D | udast Natas | Fac | ultion of Scio | nco and N | Andicino. | will pay O&M co | |
| арпан ви | dget Notes: | and new portions of p | - | ileas iliai a | iie ii | Tellewed | Operating B | ludget Notes: | | | | | wiii pay Odivi co al costs will be | |
| | | una new portions orp | riojout. | | | | | | | led to the de | | | | |
| | | | | | | | | | | rating budge | | , ibio by a | o commun | |
| HINDING | AGREEMENTS | (\$000s) | | | | | FINANCING | AGREEMENT | | 9 9 | | | | |
| | ing Source | Liability with: | Com | mitted | | No ourse dif | | | | nan Ams | Amort | Int | Ann Dover | |
| UBC Cer | | | | mitted | _ | Secured* | | rviced By: | | oan Amt | Amort | Int. | Ann. Payme | |
| Provincia | | Internally financed | \$ | 21,250 | | - | Central | Op Budget | \$ | 21,250 | 30 | 5.75% | \$ 1, | |
| Trek End | | l-t | \$ | 21,250 | \$ | - | Trek Endov | rms and | • | 07.500 | 0.5 | F 750/ | . | |
| Hek EIK | OWITIEN | Internally financed | \$ | 37,500 | \$ | • | Hek Elicov | virient | \$ | 37,500 | 35 | 5.75% | | |
| | | | | | | | | | | | | | | |
| | | | | | | - | | | - | | | | \$ | |
| Total | | | • | 90,000 | \$ | - | Total | | • | 50 750 | | | \$ | |
| Total Funding | paid or firmly com | mitted to be paid before | \$ | 80,000 | \$ | - | Total | in this case m | \$ | 58,750 | e for unea | acumed for | \$ \$ 3, | |
| Funding | | mitted to be paid before | | | \$ | - | * Loan amts | in this case re | pres | ent liabilitie | | | \$ 3, nding sources | |
| | | mitted to be paid befo | | | \$ | - | | | pres Und | ent liabilitie ergrad Life S | Sciences | Teaching | \$ 3, Inding sources Labs Projectis | |
| Funding | | mitted to be paid befo | | | \$ | - | * Loan amts | | Und top | ent liabilitie ergrad Life S priority proje | ct in the C | Teaching apital Pla | \$ 3, Inding sources Labs Projectis | |
| Funding | | mitted to be paid befo | | | \$ | - | * Loan amts | | Und top ther | ent liabilitie ergrad Life S priority proje | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, inding sources Labs Project is in Plan and able to support | |
| Funding Funding N | otes: | | ore end o | | \$ | - | * Loan amts | | Und top ther | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, inding sources Labs Project is in Plan and able to support | |
| Funding Number of States Funding No. | otes: | nmitted to be paid before the | ore end o | | \$ | - | * Loan amts | y Impact: | Und top ther | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, inding sources Labs Project is in Plan and ible to support i ect. | |
| Funding Number of States Funding No. | otes: REQUIREMENT REQUIREMENT | S CHECKLIST & SIG | N-OFF | f construc | \$ \$ tion | - | * Loan amts | y Impact: SIGNATURE | Und top ther im m | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, anding sources Labs Project is in Plan and able to support tect. | |
| Funding Nunding N | otes: | S CHECKLIST & SIG | N-OFF NAME Dean, F | f construc | \$ tion | - - ence | * Loan amts | y Impact: SIGNATURE Simon Peaco | Und top ther im m | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, inding sources Labs Project is in Plan and ible to support i ect. | |
| Funding Notice of the Project Technology | otes: REQUIREMENT REQUIREMENT | S CHECKLIST & SIG | N-OFF NAME Dean, F | f construc | \$ tion | - - ence | * Loan amts | y Impact: SIGNATURE | Und top ther im m | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, anding sources Labs Project is in Plan and able to support tect. | |
| Funding Number of States Funding No. | otes: REQUIREMENT REQUIREMENT | S CHECKLIST & SIG | N-OFF NAME Dean, F | f construc | \$ tion | ence licine | * Loan amts | y Impact: SIGNATURE Simon Peaco | Und top ther im m | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, anding sources Labs Project is in Plan and able to support tect. | |
| Funding Number of States Funding No. | REQUIREMENTS REQUIREMENT Programmatic ne Project scope and P3 screen | S CHECKLIST & SIG | N-OFF NAME Dean, F Dean, F | f construct faculty of Staculty of Stacult | \$ stion | ence licine | * Loan amts | SIGNATURE Simon Peaco Gavin Stuart | Und top ther im m | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, anding sources Labs Project is in Plan and able to support tect. DATE 12-Nov-14 | |
| Funding Number of States Funding No. | REQUIREMENTS REQUIREMENT Programmatic ne Project scope and P3 screen Project manager a | S CHECKLIST & SIG | N-OFF NAME Dean, F Dean, F | f construct faculty of Staculty of Nature Deve | \$ stion | ence licine | * Loan amts | SIGNATURE Simon Peaco Gavin Stuart | Und top ther im m | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, anding sources Labs Project is in Plan and able to support tect. DATE 12-Nov-14 | |
| Funding Number of States Funding No. | REQUIREMENTS REQUIREMENT Programmatic ne Project scope and P3 screen | S CHECKLIST & SIG | N-OFF NAME Dean, F Dean, F | f construct faculty of Staculty of Nature Deve | \$ stion | ence licine | * Loan amts | SIGNATURE Simon Peaco Gavin Stuart | Und top ther im m | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, anding sources Labs Project is in Plan and able to support tect. DATE 12-Nov-14 | |
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| Funding Number of States Funding No. | REQUIREMENTS REQUIREMENT Programmatic ne Project scope and P3 screen Project manager a Swing space required Project site Development revie | s CHECKLIST & SIG | N-OFF NAME Dean, F Dean, F Infrastru Managir | faculty of S faculty of N faculty of N incture Deve ng Director | \$ stion Scie Med | ence licine ment | * Loan amts | SIGNATURE Simon Peaco Gavin Stuart John Metras | Und top ther im m | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, anding sources Labs Project is in Plan and able to support tect. DATE 12-Nov-14 | |
| Funding Nunding N | REQUIREMENT REQUIREMENT Programmatic ne Project scope and P3 screen Project manager a Swing space requ | s CHECKLIST & SIG | N-OFF NAME Dean, F Dean, F Infrastru Managir | faculty of Saculty of Paculty of | \$ stion Scie Med | ence licine ment | * Loan amts | SIGNATURE Simon Peaco Gavin Stuart John Metras | Und top ther im m | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, anding sources Labs Project is in Plan and able to support tect. DATE 12-Nov-14 | |
| Funding Notice of the ROJECT | REQUIREMENTS REQUIREMENT Programmatic ne Project scope and P3 screen Project manager a Swing space required Project site Development revie | s CHECKLIST & SIG | N-OFF NAME Dean, F Dean, F Infrastru Managir | faculty of saculty of lacture Deve ag Director as & Community Vice Progression | \$ stion Scie Med | ence licine ment | * Loan amts | SIGNATURE Simon Peaco Gavin Stuart John Metras | Und top ther imm | ent liabilitie lergrad Life S priority projec efore sufficie | ciences et in the C nt liquidit | Teaching apital Pla y is availa | \$ 3, anding sources Labs Project is in Plan and able to support tect. DATE 12-Nov-14 | |
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