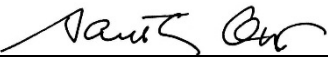




| | |
|----------------|--------------------------------|
| SUBJECT | CAPITAL PROJECTS UPDATE |
|----------------|--------------------------------|

| | |
|---------------------|-------------------------|
| MEETING DATE | DECEMBER 5, 2017 |
|---------------------|-------------------------|

APPROVED FOR SUBMISSION Forwarded to the Board of Governors on the Recommendation of the President



 Santa J. Ono, President and Vice-Chancellor

FOR INFORMATION

| | |
|--------------------|------------------|
| Report Date | November 3, 2017 |
|--------------------|------------------|

- Presented By**
- Andrew Simpson, Vice-President Finance & Operations
 - Andrew Szeri, Provost and Vice-President Academic
 - Deborah Buszard, Deputy Vice-Chancellor and Principal, UBC Okanagan
 - Philip Steenkamp, Vice-President External Relations
 - Pam Ratner, Vice-Provost and AVP Enrolment & Academic Facilities
 - John Metras, Managing Director, Infrastructure Development
 - Jennifer Burns, Chief Information Officer
 - Peter Smailes, Treasurer
 - Michael White, Associate Vice-President, Campus + Community Planning
 - Aubrey Kelly, President & CEO, UBC Properties Trust

EXECUTIVE SUMMARY

At each meeting, the Board receives a status update on current capital projects and capital priorities in planning. This includes details on major capital building projects (>\$5 million) as well as a summary of routine capital renewal and renovation projects (<=\$5 million). Information on Infrastructure Impact Charge (IIC) projects and Information Technology (IT) projects is also included.

Major Building Projects

There are currently six major capital building projects in construction and another two projects in design. The total value of these eight projects is \$329 million. Summary and detail information on these projects is provided in Attachments 1 and 2. Building projects completed since January 1, 2010 are included in Attachment 5 for reference.

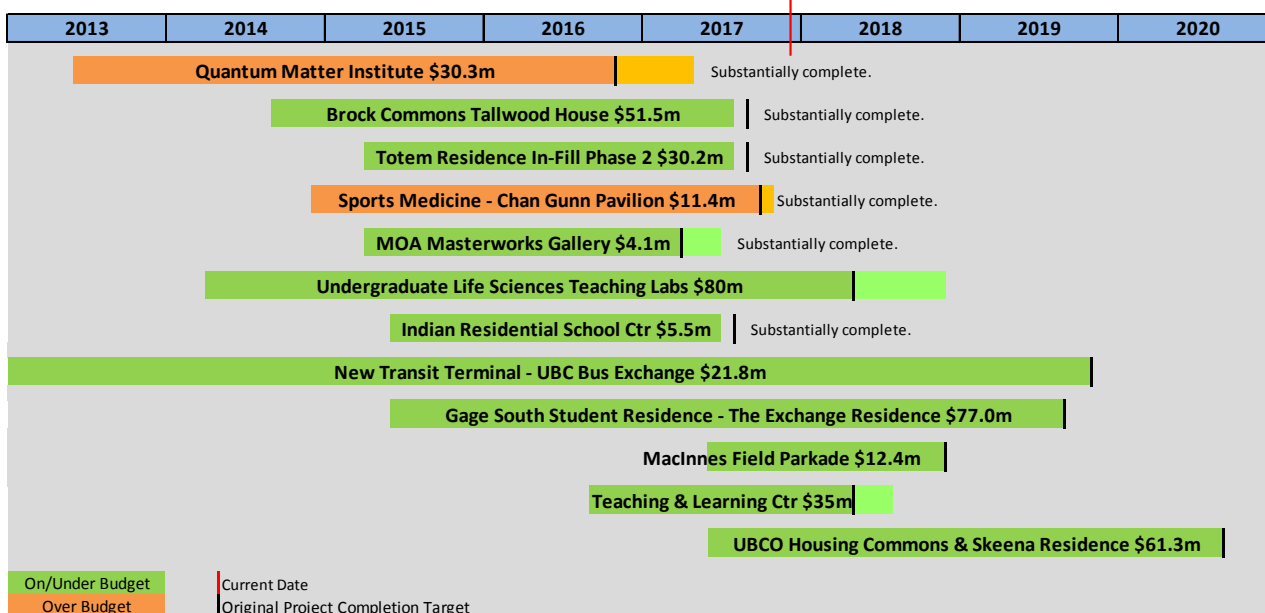
Major building projects are generally proceeding on schedule and on budget. Challenges have been experienced with some projects requiring use of the Retained Risk Fund to address unanticipated cost overages. The following are key updates:

- Recently Completed Projects (since the June 2017 Board meeting):
 - MOA Masterworks Gallery – June 20, 2017 occupancy
 - Indian Residential School History & Dialogue Centre – June 21, 2017 occupancy
 - Brock Commons Tallwood House – July 6, 2017 occupancy
 - Totem Park Residence In-Fill Phase 2 – July 20, 2017 occupancy
 - Sports Medicine Centre Chan Gunn Pavilion – Oct 27, 2017 occupancy

- Federal Strategic Investment Fund (SIF) Projects – The schedules for the Undergraduate Life Sciences Teaching Labs and UBCO Teaching & Learning Centre projects have pushed substantial completion 6 months and 3 months respectively beyond the April 30, 2018 SIF-mandated deadline. AVED has initiated discussions with the Federal SIF program to shift the completion deadline which was widely recognized as too aggressive and potentially driving poor project decisions and additional costs. The project teams are working on creative ways to accelerate schedule through efficient work coordination without impacting budget. The other smaller UBC SIF projects (e.g. Sports Medicine Centre) will be completed within the original deadline.
- Retained Risk Fund – The Retained Risk Fund (UBC Policy #125) provides internal “self-insurance” for major capital projects to address cost overages resulting from unanticipated construction issues that cannot be managed with standard project contingencies. The Retained Risk Fund had a total balance of \$9.11 million on July 31, 2017. This includes \$8.73m for the Vancouver campus and \$0.38m for the Okanagan campus. The following projects currently require support from the Fund:
 - Orchard Commons/Vantage College - \$2.3m for construction coordination issues and overtime costs to achieve completion deadline. As previously signaled this amount has increased by \$250k to resolve outstanding payment disputes with trades.
 - Engineering Student Centre - \$272k to address costs associated with delays incurred during installation of the wood structure. This is a reduction from the previous estimated retained risk requirement of \$520k.
 - Brock Commons Tallwood House - \$175k due to drywall anti-dumping tariff imposed by Canada Border Services Agency part way through construction. This was an extraordinary charge outside the control of the project team.
 - Quantum Matter Institute - \$600k due to construction delay costs (construction manager general conditions, construction financing) and additional roof installation costs not recoverable from trades or design team.

The Old SUB Swing Space project (routine capital program) has also experienced increased costs due to extraordinary asbestos abatement requirements. The project team has managed these costs to date within original contingencies and funding sources but retained risk funding may be required. Factoring in the above known deductions and planned Retained Risks fees not yet collected for projects currently in design, the Retained Risk balance will be approximately \$5.89m at fiscal year end (\$5.51m Vancouver, \$0.38m Okanagan). This is in compliance with the target level for the Retained Risk Fund of 1% of the value of active projects.

Major Building Project Status



Major IT Projects

Major information technology projects currently in planning or implementation include the Student Academic System Initiative (SASI), Administrative Systems Renewal (HR/Finance), and Customer Relationship Management (CRM) System. A listing of major IT projects is provided in Attachment 3.

Upcoming Board Approval Requests

| Project Name | Dec 2017 | Feb 2018 | Apr 2018 | Jun 2018 |
|---|----------|----------|----------|----------|
| Bioenergy Research & Demonstration Facility Expansion | Board 1 | | | |
| UBCO Housing Commons + Skeena Residence | | | Board 2 | |

Routine Capital Projects

Routine capital includes cyclical maintenance, rehabilitation, upgrade and renovation projects associated with campus buildings and infrastructure. These projects are generally valued less than \$5m and are funded from a variety of internal sources - Building Operations, Energy & Water Services, Faculties/Departments, Student Housing & Hospitality Services, Athletics and Parking – as well as with a contribution from the Ministry of Advanced Education (AVED) for capital maintenance of core academic facilities.

The Ministry of Advanced Education (AVED) has increased Routine Capital funding to UBC to address much needed capital maintenance in campus buildings. The amounts are as follows:

- 2016/17: \$34.98m (received)
- 2017/18: \$39.49m (planned)
- 2018/19: \$44.13m (planned)

AVED has specified that these funds be directed toward reduction of deferred maintenance in core academic facilities and that the overall package of projects in each year must be cost-shared between AVED and UBC on a 75%/25% basis. A small portion of the funding (\$1.66m) is allocated toward Carbon Neutral Capital Program projects. An overview of the program was provided in the 2017/18 Operating Budget.

Significant current routine capital projects outside the AVED-funded program include:

- 1) Fitness Facility Expansion (Old SUB and Student Recreation Centre) - \$4.8 million
 - Addresses significant shortage of fitness space. Funded from Central operating budget.
- 2) Stem Cell Biology Research Lab (Biomedical Research Centre) - \$4.39 million
 - Supports high profile faculty hire. Funded from Central operating budget and Excellence Fund.
- 3) MOA Education Centre - \$4.56 million
 - Provides new theatre gallery for public education programming. Funded by Canadian Heritage, donor funding, MOA reserves and operating budget, and Faculty of Arts operating budget
- 4) Graduate Research Commons & related projects at Koerner Library - \$4.3m
 - Provides technology-rich space and services for graduate scholarship and advanced research. Renovates space for Provost's Office and Office of VP Finance & Operations to accommodate working group changes. Funded through Central operating budget and donor funding.
- 5) 3T MRI Imaging Lab (Centre for Brain Health) - \$2.29m
 - Provides the facility for a new 3T whole body MRI for research use. Funded through CFI/BCKDF, Faculty of Medicine, Vancouver Coastal Health Research Institute and Central operating budget. Imaging equipment procurement is separate.
- 6) PET MRI Imaging Lab (Centre for Brain Health) - \$3.3m
 - Provides facility for new PET MRI for research use. Funded through CFI/BCKDF. Imaging equipment procurement is separate.
- 7) Baseball Stadium Upgrade - \$4.91m
 - Scope includes renovated field surface, improved lighting, new safety netting, dugouts, spectator seating, press box, scoreboard, and spectator circulation. Primarily donor funded with a \$500k contribution from UBC.
- 8) UBCO Transit Exchange - \$2.87m (Completed)
 - Expansion of transit exchange to address short-term needs and future demands. Funded by BC Transit and grants obtained through the Federal Government. UBC provides the land in-kind.

Infrastructure Impact Charge (IIC) Program

The IIC program includes utility, roads and public realm projects required to meet the needs of campus growth. Funding is provided through Infrastructure Impacts Charges on neighbourhood and ancillary development projects. A separate information report on the IIC program is provided annually to the Board.

Capital Priorities in Planning

Attachment 4 shows proposed major capital building projects currently in planning that have not yet been brought forward for Board approval. The UBC Executive undertakes an annual prioritization review of major capital priorities with assistance from the Capital Planning Working Group. This process generates an updated Five-Year Capital Plan that is submitted each year to the Provincial government. The Board of Governors approved the latest Five-Year Capital Plan (2018/19 – 2022/23) in June 2017.

Seismic Mitigation Plan

Work is currently underway to update the seismic mitigation (or resilience) plan for the Vancouver campus. A seismic hazard assessment and screening-level building vulnerability assessments have been completed by our consultant (Arup). The hazard assessment quantifies the seismic hazard facing the campus and reflects current knowledge of earthquake types, intensities, return periods and probabilities. The building vulnerability assessments utilize FEMA visual screening methodology augmented with simplified structural analysis to provide a reasonable and conservative identification of high risk buildings. These assessments led to a recommended list of 22 priority buildings for which detailed structural engineering analysis using advanced 3D modelling will now be undertaken to determine specific structural vulnerabilities, retrofit strategies and costs. Arup additionally provided a set of operational recommendations to improve campus resilience in the event of an earthquake. The results of this work to date were presented to the Board in September 2017. The next update is scheduled for February 2018.

INSTITUTIONAL STRATEGIC PRIORITIES SUPPORTED

✓ Learning ✓ Research ✓ Innovation ✓ Engagement ✓ International
(Internal / External)
or ✓ Operational

DESCRIPTION & RATIONALE The Capital Projects Update provides summary information on major capital building projects (>\$5 million), routine capital renewals and renovations, Infrastructure Impact Charge (IIC) projects and Information Technology (IT) projects.

Details provided on major building projects include schedule, budget, costs to date, confirmed funding sources, outstanding unfunded amounts, and debt financing requirements for each project. Also included is an estimate of the impact that each project has toward reducing the University's deferred maintenance backlog, either due to demolition of old facilities to make way for new construction or as result of major building renewal.

A separate section on Capital Priorities is included to show proposed projects currently in planning that have not yet been brought forward for Board 1 approval. These Capital Priorities have been determined through consultation with academic and operational stakeholders on both the Vancouver and Okanagan campuses. Final decisions on capital priorities are made by the UBC Executive.

Information on major building projects completed since 2010 is also provided.

| | |
|---|--|
| BENEFITS Learning, Research, Financial, Sustainability & Reputational | On-going capital investment in physical infrastructure and information technology provides direct support and significant benefit to UBC's core objectives of teaching, learning, research excellence, student experience and community engagement. |
| RISKS Financial, Operational & Reputational | Capital projects are subject to cost, schedule and funding risks. These risks are managed through careful planning, on-going monitoring and use of contingency allowances in project budgets. UBC also has in place a Retained Risk Fund (RRF) for building projects >\$2.5 million. The RRF acts as an internal self-insurance fund to address unforeseen cost impacts that cannot otherwise be addressed through standard project contingencies. Each major capital project pays into the RRF and is eligible for support with approval from the Provost and Vice President Finance & Operations as per the terms of Policy #125 – Retained Risk Fund for Major Capital Projects. |
| COSTS Capital & Lifecycle Operating | Cost details on current projects are provided in the Attachments. |
| FINANCIAL Funding Sources, Impact on Liquidity | Funding and financing details on current projects are provided in the Attachments. |
| SCHEDULE Implementation Timeline | Schedule details on current projects are provided in the Attachments. |
| CONSULTATION Relevant Units, Internal & External Constituencies | <p>Major building projects at UBC are developed in consultation with campus stakeholders and are subject to Executive and Board approval processes as well as a review and approval process by Campus & Community Planning (C&CP) for issuance of a development permit (DP). The DP process involves review of the project schematic design by the Advisory Urban Design Panel (AUDP) and the Development Review Committee (DRC). A public open house is held for each DP application in order to engage with the campus community and solicit input on the proposed project.</p> <p>UBC Capital Priorities are developed in accordance with the University's established Capital Planning Principles, as follows:</p> <ol style="list-style-type: none"> 1. Academic Consultation - Capital infrastructure needs and priorities are identified through on-going consultation with academic stakeholders including Deans, Provost's Office, Deputy Vice Chancellor Office (Okanagan campus), VP Students Office, VP Research Office and unit heads. |

2. **Funding Allocation** - UBC capital funding (exclusive of government funding, self-funding projects such as student housing, and donor funding) should be allocated among infrastructure categories according to the following target ratio: 70% academic, 20% student experience, 10% campus community. This is the best current estimate of the appropriate allocation to support learning and research priorities, meet student needs and provide necessary community infrastructure. The allocation model will be regularly reviewed. Allocation of UBC capital funding for recent, current and planned projects is as follows:

| | Academic | Student Experience | Campus Community |
|--|------------|--------------------|------------------|
| <i>Target allocation</i> | 70% | 20% | 10% |
| Projects completed since January 1, 2010 | 56% | 19% | 25% |
| Current projects in design or construction | 81% | 19% | 0% |
| Five-Year Capital Plan projects | 78% | 16% | 6% |
| Future priorities | 78% | 21% | 1% |
| Total of all projects above | 70% | 18% | 12% |

3. **Operational Overlay** - Building Operations, Energy & Water Services and Risk Management Services are consulted to determine deferred maintenance, seismic and other operational priorities and opportunities for synergies.
4. **Fundraising and Financing Assessment** - The Development Office prepares donor fundraising assessments for specific projects and establishes fundraising goals with reasonable (though not guaranteed) probabilities of success based on known donor prospects. Treasury determines the available financing capacity for specific projects based on current and projected internal liquidity.
5. **Efficiency** - Stated infrastructure needs are assessed against accepted standards. The proposed Capital projects are those that provide the most effective and efficient use of land, building space and capital. Opportunities are sought to optimize and re-use existing infrastructure first before replacing or expanding. Academic priorities are synergized with infrastructure renewal/seismic priorities wherever possible.
6. **Flexibility** - Flexibility is allowed in the Capital Plan in order to respond to emerging priorities and funding opportunities. Funding opportunities and financing capacity are key factors in determining project timing.

7. **Integration** - The Capital Plan is developed through integration of academic needs, strategic priorities, infrastructure renewal and risk management requirements, target UBC funding allocation and alignment with government priorities. The Provost (Vancouver campus) and Deputy Vice Chancellor (Okanagan campus) make the final decisions on capital priorities to be presented for Executive and Board approval.
8. **Approval** - Capital priorities are reviewed and approved by the Executive, and then the Board of Governors, at least once per year. Mandatory approval is required in advance of submission of the UBC Five-Year Capital Plan to the Province in June each year.
9. **On-going Review** - Minor adjustments to the capital priorities can take place throughout the year in response to emerging issues. The Board receives an up to date list of capital priorities at every Board meeting.

| | |
|-----------------------------|--------------------|
| Previous Report Date | September 21, 2017 |
|-----------------------------|--------------------|

| | |
|-----------------|-----------------|
| Decision | For Information |
|-----------------|-----------------|

| | |
|---------------------------|--|
| Action / Follow Up | |
|---------------------------|--|

Attachments:

- 1) Capital Projects Update – Summary by Project Type and Board Approval Level
- 2) Major Capital Building Projects – Detailed Information
- 3) Information Technology (IT) Projects – Detailed Information
- 4) Five-Year Capital Plan + Future Capital Priorities
- 5) Capital Projects Completed since January 1, 2010

Capital Projects Update - Summary by Project Type and Board Approval Level

As of Oct 31, 2017

Dollar figures are all in \$000's

| Project Type/ Approval Level | GBA (s.f.) ¹ | Project Budget (\$000's) | Projected Final | Costs to Date | Confirmed Funding Sources | | | | | | | | Unfunded | % Unfunded | Reduction to Deferred Maintenance ² | Financing | | | |
|--|-------------------------|--------------------------|--------------------|------------------|---------------------------|-----------------|------------------|-----------------|--------------------------|------------------|------------------------|------------------|----------------|--------------|--|------------------|------------------|---------------------|------------------|
| | | | | | Prov Gov | Fed Gov | UBCV Central | UBCO Central | Land Dvpt Costs or Taxes | Self-Funded | Faculty or Unit Funded | Fundraising | | | | UBC Central Debt | Self-Funded Debt | Faculty / Unit Debt | Total Debt |
| Infrastructure Projects | | | | | | | | | | | | | | | | | | | |
| <i>Major Capital Buildings</i> | | | | | | | | | | | | | | | | | | | |
| Board 1 - In design | 166,195 | \$119,593 | \$119,593 | \$845 | \$0 | \$0 | \$54,343 | \$657 | \$2 | \$60,686 | \$3,250 | \$0 | \$655 | 0.55% | \$37,336 | \$30,000 | \$60,686 | \$0 | \$90,686 |
| Board 2 - In design | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | 0.00% | \$0 | \$0 | \$0 | \$0 | \$0 |
| Board 3 - In construction | 677,662 | \$270,252 | \$270,973 | \$91,353 | \$31,294 | \$55,168 | \$48,235 | \$0 | \$12,910 | \$89,408 | \$5,295 | \$24,752 | \$3,912 | 1.44% | \$42,374 | \$37,400 | \$126,908 | \$25,596 | \$189,904 |
| Complete - Board 4 pending | 1,707,527 | \$695,766 | \$700,898 | \$687,644 | \$44,536 | \$24,018 | \$126,410 | \$1,750 | \$43,300 | \$351,449 | \$17,250 | \$87,148 | \$5,006 | 0.71% | \$13,697 | \$47,037 | \$295,184 | \$161,191 | \$503,412 |
| Major Capital Building Projects | 2,551,384 | \$1,085,611 | \$1,091,464 | \$779,842 | \$75,830 | \$79,186 | \$228,987 | \$2,407 | \$56,212 | \$501,543 | \$25,794 | \$111,900 | \$9,573 | 0.88% | \$93,407 | \$114,437 | \$482,778 | \$186,787 | \$784,002 |
| <i>Routine Capital Projects</i> | | | | | | | | | | | | | | | | | | | |
| Building Operations | | \$44,964 | \$45,454 | \$24,775 | \$33,723 | \$0 | \$11,731 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | 0.00% | \$44,964 | \$0 | \$0 | \$0 | \$0 |
| Energy & Water Services | | \$2,733 | \$2,733 | \$100 | \$2,050 | \$0 | \$683 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | 0.00% | \$2,733 | \$0 | \$0 | \$0 | \$0 |
| Faculties/Departments | | \$51,556 | \$51,556 | \$22,984 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$51,556 | \$0 | \$0 | 0.00% | \$0 | \$0 | \$0 | \$0 | \$0 |
| Student Housing & Hospitality | | \$17,975 | \$17,426 | \$7,969 | \$0 | \$0 | \$0 | \$0 | \$0 | \$17,426 | \$0 | \$0 | \$0 | 0.00% | \$6,400 | \$0 | \$0 | \$0 | \$0 |
| Parking Services | | \$1,130 | \$1,130 | \$410 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,130 | \$0 | \$0 | \$0 | 0.00% | \$0 | \$0 | \$0 | \$0 | \$0 |
| Athletics | | \$10,541 | \$10,541 | \$564 | \$0 | \$0 | \$5,300 | \$0 | \$0 | \$0 | \$831 | \$4,410 | \$0 | 0.00% | \$0 | \$0 | \$0 | \$0 | \$0 |
| UBC Okanagan | | \$10,967 | \$10,967 | \$4,207 | \$633 | \$2,748 | \$0 | \$7,586 | \$0 | \$0 | \$0 | \$0 | \$0 | 0.00% | \$683 | \$0 | \$0 | \$0 | \$0 |
| Routine Capital Building Projects³ | | \$139,865 | \$139,806 | \$61,010 | \$36,406 | \$2,748 | \$17,714 | \$7,586 | \$0 | \$18,556 | \$52,386 | \$4,410 | \$0 | 0.00% | \$54,780 | \$0 | \$0 | \$0 | \$0 |
| Infrastructure Impact Charge (IIC) Projects ⁴ | | \$9,710 | \$9,710 | \$990 | \$0 | \$0 | \$0 | \$0 | \$9,710 | \$0 | \$0 | \$0 | \$0 | 0.00% | \$0 | \$9,310 | \$0 | \$0 | \$9,310 |
| Subtotal - Infrastructure Projects | | \$1,235,186 | \$1,240,980 | \$841,842 | \$112,236 | \$81,934 | \$246,701 | \$9,993 | \$65,922 | \$520,099 | \$78,181 | \$116,310 | \$9,573 | 0.77% | \$148,187 | \$123,747 | \$482,778 | \$186,787 | \$793,312 |
| Information Technology Projects | | | | | | | | | | | | | | | | | | | |
| Major IT Projects | | \$211,010 | \$211,010 | \$30,143 | \$0 | \$0 | \$209,410 | \$0 | \$0 | \$0 | \$1,600 | \$0 | \$0 | 0.00% | \$0 | \$204,180 | \$0 | \$0 | \$204,180 |
| Routine IT Projects | | \$34,856 | \$35,552 | \$21,005 | \$709 | \$0 | \$18,910 | \$939 | \$0 | \$25 | \$14,683 | \$0 | \$286 | 0.80% | \$0 | \$0 | \$0 | \$0 | \$0 |
| Subtotal - IT Projects⁵ | | \$245,866 | \$246,562 | \$51,148 | \$709 | \$0 | \$228,320 | \$939 | \$0 | \$25 | \$16,283 | \$0 | \$286 | 0.12% | \$0 | \$204,180 | \$0 | \$0 | \$204,180 |
| Grand Total | 2,551,384 | \$1,481,052 | \$1,487,542 | \$892,990 | \$112,945 | \$81,934 | \$475,021 | \$10,932 | \$65,922 | \$520,124 | \$94,464 | \$116,310 | \$9,859 | 0.66% | \$148,187 | \$327,927 | \$482,778 | \$186,787 | \$997,492 |

1 - Gross building area is the total floor area including the unrentable area in square feet.

2 - Current total deferred maintenance for Vancouver campus is \$1.38 billion per AVED facility condition database (including deferred maintenance associated with existing steam district energy system).

3 - Cyclical maintenance, rehabilitation, upgrade and renovation projects >\$50,000 and <=\$5 million underway or completed in current fiscal year. Includes projects funded by AVED, Building Operations, Energy & Water Services, Faculties/Departments, Student Housing & Hospitality Services (SHHS), Athletics and Parking.

4 - IIC funded utility, roads and public realm projects underway or completed in current fiscal year. A separate report on the overall IIC Plan is also provided annually to the Board.

5 - IT projects, major (>\$5 million) and routine (>\$50,000 and <=\$5 million), currently in planning/design or completed in the fiscal year.

Major Capital Building Projects - Detailed Information

As of Oct 31, 2017
Dollar figures are all in \$000's



Grey = Complete, Board 4 Pending
Green = Board 3
Yellow = Board 2
Pink = Board 1

Dollar figures are all in \$000's

Attachment 2

| Project Name | Faculty / Dep. | Schedule | | | Gross Building Area (SF) Final Approved | GSF Final Build | Capital Cost | | | Current Status/ Issues + Variances | Funding | | | | | | | | Reduction to Deferred Maintenance | Financing | | | Funding/Financing Comments | | | |
|--|--|--|----------|---------------------------------|---|-----------------|--------------------------|--------------------------|--------------------------|---|---------------------------|-----------------|------------------|----------------|------------------|------------------|--------------------|--------------------------|-----------------------------------|------------------|-----------------|--------------------|--|--|--|--|
| | | Target Completion Final Approved | % Compl. | Actual Completion (Occupancy) | | | Budget Final Approved | Projected Final Cost | Costs to Date | | Confirmed Funding Sources | | | | | | | | | UBC Central Debt | Self-Funded | Faculty/ Unit Debt | | Total Debt | | |
| | | Prov Gov | Fed Gov | UBCV Central | | | UBCO Central | Land Dvpt Cost or Taxes | Self-Funded | | Faculty or Unit Funded | Fundraising | Unfunded | % Unfunded | UBC Central Debt | Self-Funded | Faculty/ Unit Debt | Total Debt | | | | | | | | |
| UBC-Vancouver | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Djavad Mowafaghian Centre for Brain Health | Vancouver Coastal Health Centre for Brain Research | OCT-13 | 97% | NOV-13 | 152,558 | 172,385 | \$69,757 | \$70,471 | \$68,695 | Completed and occupied. Basement fit-out underway for Preclinical Discovery Centre (PDC). Additional PDC cost covered by internal sources. | \$24,565 | \$19,716 | \$924 | | | | \$25,266 | \$0 | 0.00% | | | | | | \$0 | Included in the Faculty fundraising amount is approx \$3.4M investment income earned from provincial and federal funding received. |
| Robert H Lee Alumni Centre | Alumni Association | APR-15 | 98% | APR-15 | 41,700 | 41,700 | \$19,515 | \$19,515 | \$19,145 | Completed and occupied. | | | \$1,272 | | | | \$18,243 | \$0 | 0.00% | | \$1,000 | | \$11,117 | \$12,117 | Unfunded amount to be filled from Alumni fundraising if needed | |
| Student Union Building | AMS | NOV-14 to JUN-15 | 100% | MAY-15 | 253,750 | 209,000 | \$106,760 | \$108,065 | \$107,756 | Completed and occupied. Expected \$1.3 m cost increase to be covered by AMS student fees. | | | \$25,000 | | | \$82,940 | \$125 | \$0 | 0.00% | | \$25,000 | \$68,000 | | \$93,000 | Debt financing will be required for the project. \$58.0M of the loan will be funded by future AMS student levy, and \$25.0M will be funded from future UBC operating budget. | |
| UBC Dairy Education & Research Centre on-site Researcher Housing | Land & Food Systems | SEP-15 | 98% | SEP-15 | 11,600 | 11,600 | \$3,500 | \$3,500 | \$3,413 | Completed and occupied. | | | | | \$400 | \$2,844 | \$256 | \$0 | 0.00% | | | | | \$0 | Faculty has contributed extra funding to cover donation shortage. Once donation is received, amount will be refund to faculty. | |
| Baseball Training Facility | Athletics | DEC-15 | 99% | SEP-15 | 20,000 | 20,000 | \$3,500 | \$3,916 | \$3,885 | Completed and occupied. Costs include \$416K in client-requested scope additions which have been recovered from client. | | | | | | \$243 | \$3,642 | \$0 | 0.00% | | | | | \$0 | Project has gone over the budget due to client-requested scope additions. Unfunded amount amount to be covered by Athletics. | |
| Iona Building Acquisition- Vancouver School of Economics | Arts | DEC-15 | 100% | DEC-15 | 99,663 | 99,663 | \$33,500 | \$34,006 | \$34,006 | Completed and occupied. Arts funded \$500k for additional 100-seat lecture theatre. | | | \$15,000 | | \$2,300 | \$5,600 | \$11,100 | \$6 | 0.02% | | \$15,000 | | \$18,500 | \$33,500 | Arts added \$0.5M for 100 seat lecture theatre. | |
| Bentley Family Hall at Loon Lake | Forestry | New Hall JUN-15 Conversion JUN-16 | 99% | APR-16 | 6,315 | 6,315 | \$3,000 | \$2,850 | \$2,818 | New dining hall and conversion of old dining to dormitory are both completed and occupied. | | | | | | \$284 | \$2,566 | \$0 | 0.00% | | | | | \$0 | Faculty contribution represent the shortage from committed fundraising. This shortage is guaranteed by Faculty of Forestry. | |
| Ponderosa Commons (Phase 2) | SHHS | SEP to DEC-15 | 100% | JUN-16 | 288,903 | 288,903 | \$77,829 | \$75,290 | \$75,237 | Completed and occupied. | | | \$6,037 | | \$500 | \$60,212 | \$8,279 | \$262 | \$0 | 0.00% | \$13,638 | \$6,037 | \$60,211 | \$4,500 | \$70,748 | \$60.2M debt will be serviced with housing rental revenue. \$6.0M debt will be covered by Central. \$4.5M debt will be serviced by Fac of Education has put in extra funding to cover fundraising shortfall. |
| UBC Vancouver District Energy System | Energy & Water Services | DEC-15 Old Steam Plant Demo DEC-16 | 96% | JUN-16 Old Steam Plant Demo TBD | N/A | N/A | \$88,300 | \$88,300 | \$84,826 | System completed and in-use. Currently addressing deficiencies with some domestic hot water heat exchangers. Allowance remaining for demolition of old Powerhouse. | \$6,955 | | \$71,345 | | \$10,000 | | | \$0 | 0.00% | | | | \$78,300 | \$78,300 | Received 6.95M from AVED. Max of \$78.3M internal financing to be repaid from Energy & Water Services budget using cost savings generated by the project. | |
| Aquatic Centre | Athletics | NOV-16 | 100% | DEC-16 | 74,448 | | \$39,900 | \$39,900 | \$39,910 | Completed and occupied. | | | | | \$28,500 | | \$6,400 | \$5,000 | 12.53% | | | \$11,400 | | \$11,400 | Unfunded amount to be filled from fundraising or Athletics operating budget. Internal loan of 6.29M has already been set up | |
| Orchard Commons, Mixed-Use Student Housing | SHHS/ Vantage College | JUL-16 | 100% | SEP-16 | 448,686 | | \$127,474 | \$131,624 | \$131,526 | Completed and occupied. Additional costs due to construction issues covered by Retained Risk (\$2.3m). Additional costs for scope changes covered by SHHS (\$1.85m). Final variance still to be confirmed. | | | \$2,300 | | \$1,000 | \$128,324 | | \$0 | 0.00% | \$59 | | | \$126,474 | \$126,474 | Max of 101.8M will be paid from future student housing rents. 24.7M from Vantage College future revenue. | |
| Henry Angus Tower - Seismic Upgrades | C&CP | SEP-16 | 90% | JAN-17 | | | \$4,162 | \$4,592 | \$4,118 | Completed and occupied. Additional costs related to utility system damage to be recovered from contractor insurance. | \$360 | | \$4,232 | | | | | \$0 | 0.00% | | | | | \$0 | | |
| National Soccer Development Centre - Field House Training Facility & Practice Fields (Vancouver Whitecaps - UBC Athletics Partnership) | Athletics | Fields OCT-15 Fieldhouse DEC-16 | 93% | JUN-17 | 37,980 | 37,800 | \$27,244 | \$27,244 | \$25,460 | Completed and occupied. Minor variance of under \$20k is projected and will be covered by client. | \$11,006 | | | \$1,750 | \$3,300 | | \$11,188 | \$0 | 0.00% | | | | | \$0 | UBCPT contributing total of 3.3M (825K for Core project + 2.475M for relocation cost to consolidate uses within Thunderbird Park) to the project. | |
| Museum of Anthropology - Northwest Coast Masterworks Gallery | Arts | MAR-17 | 82% | JUN-17 | 2,700 | | \$4,100 | \$4,100 | \$3,355 | Completed and occupied. Some remaining deficiency work to address. | | \$1,500 | | | | | \$2,600 | \$0 | 0.00% | \$0 | | \$600 | \$600 | Donor will be funding 2.6M towards Phase 1 of the project, remaining funding to be cover by Federal (500K) & Canadian Heritage (1M). | | |
| Indian Residential School History & Dialogue Centre | First Nations House of Learning | JUL-17 | 73% | JUN-17 | 6,523 | | \$5,500 | \$5,800 | \$4,260 | Completed and occupied. AV exhibit is on-going and is being completed by client. The additional \$300K is a funded increase. | | | \$300 | | | \$5,500 | \$0 | 0.00% | \$0 | | | | \$0 | Undesignated donor funding has been allocated to cover the full project cost. | | |
| Brock Commons Phase 1 - Tall Wood Student Residence | SHHS | SEP-17 | 100% | JUL-17 | 162,750 | | \$51,525 | \$51,525 | \$50,326 | Completed and occupied. Drywall anti-dumping tariff to be covered by Retained Risk (\$175k). This was an extraordinary cost outside control of project team. | \$1,650 | \$2,802 | | | | \$47,073 | | \$0 | 0.00% | \$0 | | | \$47,073 | \$47,073 | \$47.1M internal loan to be repaid with future rental revenue. | |
| Totem Park Residence In-Fill (Phase 2) | SHHS | AUG-17 | 98% | JUL-17 | 99,951 | | \$30,200 | \$30,200 | \$28,908 | Completed and occupied. Work on sports courts will continue and be completed in 2 phases. Final costs for sports court will be \$300k higher due to scope improvements separately funded SHHS. | | | | | | \$30,200 | | \$0 | 0.00% | \$0 | | \$30,200 | \$30,200 | \$30.2M internal loan to be repaid with future rental revenue. | | |
| IIC Projects | C&CP | To be completed in phases over a 15 year period. | | | N/A | N/A | Please refer to IIC Plan | Please refer to IIC Plan | Please refer to IIC Plan | Current public realm projects in construction include: Library Gardens | | | | | | | | Please refer to IIC Plan | Please refer to IIC Plan | | | | | \$0 | Public Realm projects are funded by Infrastructure Impact Charges. | |
| Geological Field School - ON HOLD | Science | TBC | 5% | | 10,824 | 10,824 | \$2,400 | \$2,400 | \$131 | The donors were not content with original scheme. A new design team has been engaged and initial concept design completed. Awaiting feedback from donors prior to proceeding with detailed design. | | | | | | \$932 | \$1,468 | 61.17% | | | | | \$0 | Unfunded amount to be filled from fundraising. | | |
| Quantum Matter Institute / Advanced Materials & Process Engineering Laboratory | Applied Science/ Science | OCT-16 | 96% | APR-17 | 51,667 | 51,667 | \$30,269 | \$30,869 | \$29,722 | Base building completed and occupied. Cost overage covered by Retained Risk (\$600k). AMPEL lab renovation projects to proceed with original \$1m budget allowance plus additional funding from Science, Applied Science and Central. | | \$3,345 | \$12,600 | | | \$4,601 | \$8,000 | \$2,323 | 7.53% | \$12,600 | | \$12,601 | \$25,201 | Unfunded amount result from CERC Indirect Cost allocation no long available. Treasury is working with Science to set up additional financing. Internal loan has been issued for 6.201M fundraising. \$1.6M Science, \$1.6M UBC Central & \$3.0M Applied Science. | | |
| Sports Medicine Centre - Chan Gunn Pavilion | Medicine/ Education (Kinesiology) | SEP-17 | 75% | OCT-17 | 21,173 | | \$11,425 | \$11,546 | \$8,698 | Provisional occupancy received on Oct 27. Budget overage projected with costs to be recovered from building users. Working with CM to mitigate overrun. | | \$4,731 | | | | \$694 | \$6,000 | \$121 | 1.05% | \$2,827 | \$2,250 | \$3,175 | \$5,425 | Internal loan will be issued for the faculty portion of the debt. | | |
| Undergraduate Life Sciences Teaching Labs Renew | Science/ Medicine | JUL-18 | 29% | | 176,625 | | \$80,000 | \$80,000 | \$23,083 | Construction underway. Substantial completion now expected in Nov 2018. Delays due to weather and hazardous materials discovered during demolition. | \$11,838 | \$32,528 | \$35,635 | | | | \$0 | 0.00% | \$39,547 | \$22,550 | \$37,500 | \$60,050 | 35.6M loan will be paid from Central operating budget. | | | |
| UBC Exchange (New Bus Transit Terminal) | C&CP | AUG-19 | 40% | | N/A | | \$21,750 | \$21,750 | \$8,735 | Interim bus facility complete. Balance of construction underway. Currently on budget and on schedule. | \$8,840 | | | \$12,910 | | | \$0 | 0.00% | \$0 | | | | \$0 | TransLink to provide up to \$8.84 M plus an allowance for cost escalation. | | |
| Exchange Residence (at Gage South) | SHHS | AUG-19 | 17% | | 290,000 | | \$76,973 | \$76,973 | \$13,335 | Construction underway. Some design coordination challenges. Currently on budget and on schedule. | | | | | | \$76,973 | | \$0 | 0.00% | \$0 | | \$76,973 | \$76,973 | Project currently proposed to be financed through an internal loan. | | |
| UBC Life Building - ON HOLD | VP Students | (TBC) | 1% | | 166,195 | | \$58,250 | \$58,250 | \$845 | Building system renewal to be completed as part of Routine Capital project to develop building for temporary swing space. UBC Life program planned for Phase 2 in 2020. Cost for Phase 2 scope expected to be in range of \$30m. | | | \$54,343 | | \$2 | \$3,250 | | \$655 | 1.12% | \$37,336 | \$30,000 | | \$30,000 | \$30M debt will be covered from future Central operating budget. | | |
| MacInnes Field Underground Parkade | Parking | SEP-20 | 0% | | 64,966 | | \$12,435 | \$12,435 | \$0 | Project is undergoing initial design. Bulk and detailed excavation tender packages, and BP phase 1 excavation permit package are in progress. | | | | | | \$12,435 | | \$0 | 0.00% | | | \$12,435 | \$12,435 | | | |
| SUBTOTAL (UBC-V) | | | | | 2,488,977 | | \$989,268 | \$995,121 | \$772,193 | | \$65,214 | \$64,622 | \$228,987 | \$1,750 | \$56,212 | \$440,857 | \$25,794 | \$102,080 | \$9,573 | 0.96% | \$93,407 | \$114,437 | \$422,092 | \$176,967 | \$713,496 | |
| UBC-Okanagan | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Teaching & Learning Centre | UBCO Library | APR-18 | 22% | | 62,407 | | \$35,000 | \$35,000 | \$7,649 | Fast track project delivery. Construction underway. Substantial completion expected in Jul 2018. Delays due to winter weather. | \$10,616 | \$14,564 | | | | \$9,820 | \$0 | 0.00% | | | | \$9,820 | \$9,820 | | | |
| Housing Commons & Skeena Residence | SHHS | AUG-20 | 0% | | | | \$61,343 | \$61,343 | \$0 | Architect selection complete. Consultants will be selected shortly and schematic design will begin. | | | \$657 | | \$60,686 | | \$0 | 0.00% | | | \$60,686 | | \$60,686 | \$60,686 | capital cost to be internally financed with debt service paid from systemwide student housing rental and meal plan revenue. | |
| SUBTOTAL (UBC-O) | | | | | 62,407 | | \$96,343 | \$96,343 | \$7,649 | | \$10,616 | \$14,564 | \$0 | \$657 | \$0 | \$60,686 | \$0 | \$9,820 | \$0 | 0.00% | \$0 | \$0 | \$60,686 | \$9,820 | \$70,506 | |

Major Capital Building Projects - Detailed Information

As of Oct 31, 2017
Dollar figures are all in \$000's



Grey = Complete, Board 4 Pending
Green = Board 3
Yellow = Board 2
Pink = Board 1

Dollar figures are all in \$000's

Attachment 2

| Project Name | Faculty / Dep. | Schedule | | | Gross Building Area (SF) Final Approved | GSF Final Build | Capital Cost | | | Current Status/ Issues + Variances | Funding | | | | | | | | | | Reduction to Deferred Maintenance | Financing | | | | Funding/Financing Comments |
|--------------------|----------------|----------------------------------|----------|-------------------------------|---|-----------------|-----------------------|----------------------|---------------|------------------------------------|---------------------------|----------|--------------|--------------|-------------------------|-------------|------------------------|-------------|----------|------------|-----------------------------------|------------------|-------------|--------------------|------------|----------------------------|
| | | Target Completion Final Approved | % Compl. | Actual Completion (Occupancy) | | | Budget Final Approved | Projected Final Cost | Costs to Date | | Confirmed Funding Sources | | | | | | | | Unfunded | % Unfunded | | UBC Central Debt | Self-Funded | Faculty/ Unit Debt | Total Debt | |
| | | | | | | | | | | | Prov Gov | Fed Gov | UBCV Central | UBCO Central | Land Dvpt Cost or Taxes | Self-Funded | Faculty or Unit Funded | Fundraising | | | | | | | | |
| GRAND TOTAL | | | | | 2,551,384 | | \$1,085,611 | \$1,091,464 | \$779,842 | | \$75,830 | \$79,186 | \$228,987 | \$2,407 | \$56,212 | \$501,543 | \$25,794 | \$111,900 | \$9,573 | 0.88% | \$93,407 | \$114,437 | \$482,778 | \$186,787 | \$784,002 | |

Information Technology (IT) Projects - Detailed Information

Projects underway or completed in the past 12 months - as at September 30, 2017

Attachment 3

| |
|--------------------------|
| Complete |
| Board 3 - Implementation |
| Board 2 - In design |
| Board 1 - In design |
| In Planning or Design |

| Project Name | Faculty / Dep. | Project Rep. | % Compl. | Actual Compl. (Occu.) | Project Budget Final | Projected Final Cost | Costs to Date | Current Status | Issues/Comments | Issues/Comments | Funding | | | | | | | | | | Financing | | | | | | | |
|--|----------------|---------------|----------|-----------------------|-----------------------|-----------------------|----------------------|--------------------------|--------------------------|-----------------|---------------------------|---------|--------------|---------------|-------------------------|-----------------------|------------------------|--------------|-------------|---------------------|-------------|---------------|------------------|-----------------------|--------------------|----------------------|--|--|
| | | | | | | | | | | | Confirmed Funding Sources | | | | | | | | | | Unfunded | % Unfunded | UBC Central Debt | Self-Funded | Faculty/ Unit Debt | Total Debt | Funding/Financing Comments | |
| | | | | | | | | | | | Prov Gov | Fed Gov | UBCV Central | UBCO Central | Land Dvpt Cost or Taxes | Self-Funded | Faculty or Unit Funded | Fundraising | | | | | | | | | | |
| IT - Major Capital (>\$2.5m) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Student Academic System Initiative | | | | Mar-21 | \$ 98,700,000 | \$ 98,700,000 | \$ 22,610,000 | Board 2 - In design | Board 2 - approved | | | | | \$ 98,700,000 | | | | | | \$ - | 0% | \$ 93,750,000 | | | \$ 93,750,000 | Financing determined | | |
| Administrative Systems (Finance, HR, Research, Data Integration) | | | | Mar-21 | \$ 85,000,000 | \$ 85,000,000 | \$ 1,178,000 | Board 1 - In design | Board 1 - approved | | | | | \$ 85,000,000 | | | | | | | | 0% | \$ 85,000,000 | | | \$ 85,000,000 | Financing requirements to be determined. | |
| Recruitment - Customer Relationship Management (CRM) System | UBCV | Travis Debnam | | Mar-19 | \$ 7,710,000 | \$ 7,710,000 | \$ 1,607,000 | Board 3 - Implementation | Board 3 - Implementation | | | | | \$ 6,110,000 | | | | \$ 1,600,000 | | \$ - | 0% | \$ 6,910,000 | | | \$ 6,910,000 | Financing determined | | |
| Learning Technology Ecosystem Renewal | | | | Mar-18 | \$ 6,000,000 | \$ 6,000,000 | \$ 1,143,000 | Board 3 - Implementation | Board 3 - Implementation | | | | | \$ 6,000,000 | | | | | | | | | | | \$ 5,960,000 | Financing determined | | |
| PrISM 1 and 2 | | | | Mar-20 | \$ 8,350,000 | \$ 8,350,000 | \$ 2,172,000 | Board 3 - Implementation | For DVC approval | | | | | \$ 8,350,000 | | | | | | | | | | | \$ 8,340,000 | Financing determined | | |
| Electronic Data Integration Project | | | | Mar-19 | \$ 5,250,000 | \$ 5,250,000 | \$ 1,433,000 | Board 3 - Implementation | Board 3 - Implementation | | | | | \$ 5,250,000 | | | | | | | | | | | \$ 4,220,000 | Financing determined | | |
| Total - Major IT | | | | | \$ 211,010,000 | \$ 211,010,000 | \$ 30,143,000 | | | | | | | \$ - | \$ - | \$ 209,410,000 | \$ - | \$ - | \$ - | \$ 1,600,000 | \$ - | \$ - | 0% | \$ 204,180,000 | \$ - | \$ - | \$ 204,180,000 | |

Minor Capital Projects

Fiscal 17/18 Projects - as at Jul 31/17
Dollar figures are all in \$000's

| Project Stage | Project Budget (\$000's) | Projected Final | Costs to Date | Confirmed Funding Sources | | | | | | | | Unfunded | % Unfunded | Financing | | | |
|-----------------------|--------------------------|-----------------|-----------------|---------------------------|------------|-----------------|--------------|--------------------------|-------------|------------------------|-------------|--------------|--------------|------------------|------------------|---------------------|------------|
| | | | | Prov Gov | Fed Gov | UBCV Central | UBCO Central | Land Dvpt Costs or Taxes | Self-Funded | Faculty or Unit Funded | Fundraising | | | UBC Central Debt | Self-Funded Debt | Faculty / Unit Debt | Total Debt |
| In Planning or Design | \$6,070 | \$6,856 | \$606 | \$207 | \$0 | \$4,830 | \$10 | \$0 | \$0 | \$1,809 | \$0 | \$0 | 0.00% | \$0 | \$0 | \$0 | \$0 |
| Under Construction | \$13,795 | \$13,849 | \$7,683 | \$223 | \$0 | \$6,168 | \$335 | \$0 | \$0 | \$7,106 | \$0 | \$17 | 0.12% | \$0 | \$0 | \$0 | \$0 |
| Complete | \$14,991 | \$14,847 | \$12,716 | \$279 | \$0 | \$7,912 | \$594 | \$0 | \$25 | \$5,768 | \$0 | \$269 | 1.81% | \$0 | \$0 | \$0 | \$0 |
| Total | \$34,856 | \$35,552 | \$21,005 | \$709 | \$0 | \$18,910 | \$939 | \$0 | \$25 | \$14,683 | \$0 | \$286 | 0.80% | \$0 | \$0 | \$0 | \$0 |

| Project Stage | UBC IT | CTLT | MedIT | UBCO |
|-----------------------|-----------------|----------------|----------------|--------------|
| Under Construction | \$9,465 | \$1,533 | \$2,516 | \$335 |
| In Planning or Design | \$6,649 | \$0 | \$207 | \$0 |
| Complete | \$11,913 | \$211 | \$2,129 | \$594 |
| Total | \$28,027 | \$1,744 | \$4,852 | \$929 |

NOTE: UBCIT Amounts include projects from Enrolment Services, Library, VPRI and Sauder

Projects were identified and prioritized by the UBC Executive with support from the Capital Planning Working Group. The capital priorities list is regularly updated to reflect latest approvals and any budget, funding and schedule changes.

| | Five-Year Capital Plan Projects 2018/19 - 2022/23 ¹ | Faculty /Dept | Preliminary Capital Cost (\$000s) |
|---|--|-------------------------------|-----------------------------------|
| 1 | Biological, Environmental & Biomedical Engineering Building | Applied Science | \$90,000 |
| 2 | Chemistry Laboratory Complex (Undergrad Chemistry Teaching Labs + Chemistry Physics Research Labs) | Science | \$140,000 |
| 3 | UBCO Industrial Scale Engineering Laboratory | Applied Science | \$10,000 |
| 4 | Community Health Sciences Centre + Recreation Fitness Facility + War Memorial Gym Renewal | Kinesiology/Nursing/Athletics | \$190,000 |
| 5 | Math Building Renewal/Replacement (including Klinck Building) | Science | \$100,000 |
| 6 | Geography Building Renewal/Replacement | Arts | \$50,000 |
| 7 | Asian Centre Renovation & Library Addition | Library | \$16,000 |
| 8 | UBC Farm Centre | Land + Food Systems | \$20,000 |
| | Total Academic Priorities | | \$616,000 |

1 - Capital Plan was approved by the Board in Jun 2017 and submitted to the Province in Aug 2017. Projects are listed in priority order.

FUTURE PRIORITIES

Future priority projects are listed in alphabetical order, except housing projects which are listed in order of target completion date.

| | Future Academic Projects | Faculty /Dept | Preliminary Capital Cost (\$000s) |
|--|--|--------------------------|-----------------------------------|
| | Arts Student Centre | Arts | \$5,000 |
| | Belkin Expansion | Arts | \$8,000 |
| | Centre for Interactive Research on Children's Learning Environments (CIRCLE) | Applied Science/Medicine | \$10,000 |
| | Forestry Expansion | Forestry | \$30,000 |
| | Innovation Hub | VP Research | \$20,000 |
| | JB MacDonald Building Expansion | Dentistry | \$51,000 |
| | Music Renewal + Expansion | Arts | \$50,000 |
| | Policy School | Arts | \$30,000 |
| | SALA Building + Lasserre Upgrade | Applied Science | \$50,000 |
| | Sauder Graduate School Expansion | Sauder | \$50,000 |
| | UBC Life Building (Old SUB Renew) - Phase 2 | VP Students | \$30,000 |
| | UBCO Composites Learning Factory | UBCO/Applied Science | \$25,000 |
| | Total Future Academic Projects | | \$311,000 |

| | Deferred Maintenance & Seismic Upgrade Projects ¹ | Faculty /Dept | Preliminary Capital Cost (\$000s) |
|--|--|------------------------|-----------------------------------|
| | Frank Forward Building | Applied Science | \$21,764 |
| | H.R. MacMillan Building Seismic Upgrade + Renewal | Land + Food Systems | \$46,000 |
| | MacLeod Building | Applied Science | \$10,871 |
| | Medical Block C | Science/Medicine | \$25,000 |
| | MOA Great Hall | Arts | \$10,680 |
| | Old Administration | Central Administration | \$2,454 |
| | Psychology (Douglas Kenny Building) | Arts | \$40,000 |
| | Woodward Library | Library | \$17,997 |
| | 1 - To be updated in 2018 based on results of current seismic plan update process. | | |
| | Total Deferred Maintenance & Seismic Upgrade Projects | | \$174,766 |

| | Student Housing & Faculty /Staff Rental Housing Projects (ordered by target delivery date) | Faculty /Dept | Preliminary Capital Cost (\$000s) |
|--|--|------------------|-----------------------------------|
| | Brock Commons Phase 2 | SHHS/Arts | \$125,000 |
| | Copp Student Housing (with Innovation Hub) | SHHS/VP Research | \$100,000 |
| | Mixed-Use Academic/University Rental Housing at Gateway Site | UBCPT | \$37,000 |
| | Armoury Commons | SHHS/Arts | \$100,000 |
| | Walter Gage Infill - Student Residence | SHHS | \$49,000 |
| | Totem Research Field - Student Residence | SHHS | \$124,500 |
| | Health Sciences Commons | SHHS/Medicine | \$82,300 |
| | Total Housing & Faculty/Staff Rental Housing Projects | | \$617,800 |

| | Athletics & Recreation Projects | Faculty /Dept | Preliminary Capital Cost (\$000s) |
|--|--|------------------------|-----------------------------------|
| | Baseball Stadium | Athletics & Recreation | \$9,000 |
| | Thunderbird Stadium Redevelopment | Athletics & Recreation | \$30,000 |
| | UBCO Gymnasium Expansion | UBCO Athletics | \$30,000 |
| | Total Athletics & Recreation Projects | | \$69,000 |

| | Campus Operations Projects | Faculty /Dept | Preliminary Capital Cost (\$000s) |
|--|---|-----------------------------|-----------------------------------|
| | Bioenergy Research & Demonstration Facility Expansion | Energy & Water Services | \$14,845 |
| | Cogeneration Plant | Energy & Water Services | \$56,000 |
| | Rapid Transit | Campus & Community Planning | TBD |
| | Total Campus Operations Projects | | \$70,845 |

| | | | |
|--|---|--|--------------------|
| | Total Future Priorities | | \$1,243,411 |
| | Total Five-Year Capital Plan + Future Priorities | | \$1,859,411 |

UBC Capital Projects Completed since January 1, 2010

Attachment 5

As of Oct 31, 2017

Dollar figures are all in \$000's

| Project Name | Faculty / Dept | Completion | Gross Building Area | Capital Cost | Current Status |
|---|---------------------------------|---------------|---------------------|--------------------|--|
| Projects completed since January 2010 (for historical context): | | | | | |
| UBC Renew Phase 1 - Old Auditorium | Arts | APR-10 | 32,734 | \$20,141 | Complete |
| UBC Renew Phase 1 - Buchanan A | Arts | JUN-10 | 30,753 | \$12,147 | Complete |
| T-bird Stadium Turf Field and Grass Rugby Fields | Athletics | AUG-10 | N/A | \$2,661 | Complete |
| UBCO Student Housing Phase 3B | SHHS | AUG-10 | 42,618 | \$8,120 | Complete |
| UBCO Arts & Science Building 2 | Arts & Science | SEP-10 | 86,225 | \$41,543 | Complete |
| School of Population & Public Health | Medicine | SEPT-10 | 30,000 | \$7,819 | Complete |
| UBC Renew Phase 2A BioSciences West & South | Science | MAR-11 | 151,669 | \$61,900 | Complete |
| UBCO Reichwald Health Sciences Centre | Medicine | APR-11 | 48,158 | \$30,650 | Complete |
| Tennis Facility | Athletics | JUN-11 | 71,000 | \$9,345 | Complete |
| UBCO Engineering Management Building | Applied Science | AUG-11 | 180,532 | \$69,611 | Complete |
| Norman B. Keevil Institute of Mining Engineering | Applied Science | AUG-11 | 10,312 | \$4,027 | Complete |
| Totem In-Fill Student Housing Project | SHHS | AUG-11 | 181,706 | \$38,255 | Complete |
| Wayne & William White Engineering Design Centre | Applied Science | AUG-11 | 20,148 | \$8,326 | Complete |
| Centre for Integrated Research in Sustainability (CIRS) | VP Research | AUG-11 | 58,373 | \$36,781 | Complete |
| Childcare Expansion - Phase 1 | SHHS | SEP-10/SEP-11 | 17,388 | \$3,543 | Complete |
| Faculty of Law - Allard Hall | Law | SEP-11 | 141,345 | \$55,901 | Complete |
| UBCO Student Housing Phase 4 | SHHS | SEP-11 | 68,213 | \$14,058 | Complete |
| UBCO Geoexchange Phase 3 | UBCO | OCT-11 | N/A | \$6,494 | Complete |
| Centre for Comparative Medicine | VP Research | NOV-11 | 75,933 | \$37,030 | Complete |
| Sauder School of Business Building Project | Sauder | JAN-12 | 265,820 | \$69,934 | Complete |
| UBCO Fitness / Wellness Centre | UBCO Athletics | JAN-13 | 8,500 | \$4,060 | Complete |
| Bioenergy Research & Demonstration Project | Energy & Water Services | JUL-12 | 19,773 | \$27,400 | Complete |
| Earth Science Building (ESB) | Science | AUG-12 | 164,020 | \$74,700 | Complete |
| Pharmaceutical Sciences/CDRD + Modified Barrier Facility & University Data Centre | PharmSci | SEP-12 | 246,182 | \$150,903 | Complete |
| Gerald McGavin UBC Rugby Centre | Athletics | JAN-13 | 5,150 | \$2,500 | Complete |
| Leon & Thea Koerner University Centre | Peter Wall/SHHS | SEP-13 | 38,000 | \$6,038 | Complete |
| Ponderosa Commons (Phase 1) | SHHS | SEP-NOV-13 | 298,731 | \$87,655 | Complete |
| Djavad Mowafaghian Centre for Brain Health | Medicine/ Vancouver | NOV-13 | 152,558 | \$69,757 | Complete. Separate basement tenant fit-out underway. |
| Bookstore Renovation & Expansion | Bookstore | AUG-14 | 8,800 | \$6,608 | Complete |
| Robert H. Lee Alumni Centre | Alumni Assoc | APR-15 | 41,700 | \$19,478 | Complete |
| New Student Union Building | AMS | MAY-15 | 253,750 | \$108,760 | Complete |
| Library PARC | Library | SEP-15 | 24,540 | \$11,140 | Complete |
| Engineering Student Centre | EUS | SEP-15 | 10,058 | \$5,740 | Complete |
| Dairy Education & Research Centre - Researcher Housing (Aqassiz) | Land + Food Systems | SEP-15 | 11,600 | \$3,500 | Complete |
| Bentley Family Dining Hall at Loon Lake | Forestry | SEP-15 | 6,315 | \$3,000 | Complete |
| Baseball Training Facility | Athletics | SEP-15 | 20,000 | \$3,861 | Complete |
| Iona Building Acquisition - Vancouver School of Economics | Arts | DEC-15 | 99,663 | \$33,500 | Complete |
| Ponderosa Commons (Phase 2) | SHHS | JUN-16 | 288,903 | \$77,829 | Complete |
| UBC Vancouver District Energy System | Energy + Water Services | JUN-16 | N/A | \$88,300 | Complete |
| Orchard Commons, Mixed-Use Student Housing | SHHS/Vantage College | SEP-16 | 448,686 | \$131,274 | Complete |
| Aquatic Centre | Athletics | DEC-16 | 74,448 | \$39,900 | Complete |
| Henry Angus Tower Seismic Upgrade | Sauder | JAN-17 | 0 | \$4,162 | Complete |
| Quantum Matter Institute | Science/Applied Science | APR-17 | 51,882 | \$30,269 | Complete |
| National Soccer Development Centre | Athletics | JUN-17 | 30,000 | \$27,244 | Complete |
| MOA Northwest Coast Masterworks Gallery | Arts | JUN-17 | 2,700 | \$4,100 | Complete |
| Indian Residential Schools History & Dialogue Centre | First Nations House of Learning | JUN-17 | 6,523 | \$5,500 | Complete |
| Brock Commons Phase 1 - Tall Wood Student Residence | SHHS | JUL-17 | 162,750 | \$51,525 | Complete |
| Totem Park Residence In-Fill Phase 2 | SHHS | JUL-17 | 99,951 | \$30,200 | Complete |
| | | | | | |
| Total Completed Projects | | | | \$1,647,188 | |