



PROJECT SUMMARY

Project Johnson Building, Bishop's University, Lennoxville, Québec, Canada.

Description Construction of a new rooftop research greenhouse. 1 200 sq.ft of rooftop greenhouses in 1 research zone.

Completion Date 2019

Construction Value \$ 733,000



Role

Capital Greenhouse, in collaboration with *Greenhouse Engineering*, was the greenhouse specialist for the Research greenhouse, responsible for the programming phase, for the design services for the greenhouse structure, greenhouse systems, lighting, mechanical and electrical work and greenhouse computer control system. Complete greenhouse design, drawings and specifications. Coordination with MEP engineers of the main building. Construction phase services included shop drawing review, site meetings.

Design Challenges Demolition of existing rooftop greenhouse
Construction on top of an existing five story building.
Rain water harvesting system.
Vertical and horizontal curtains to prevent supplemental light spillage, due to an existing telescope nearby on campus.
Greenhouse designed for hops.



rooftop greenhouse



rooftop greenhouse



Hops crops



Hops crops



Inside of the greenhouse space, at end of construction phase



Rainwater harvesting system



Rain water storage tanks

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References

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