

## **Appendix E**

Financial Summary

VGH Precinct Buildout  
Estimated Operating and Maintenance Budget Increases

Item	Quantity	Cost / Unit	Total Cost / Year
Street Lighting			
High Pressure Sodium Light (including energy costs)	113	\$325.31	\$36,760
Metal Halide Light (including energy costs)	12	\$379.28	\$4,551
Granite Light Pole Bases	24	\$42	\$1,001
SF Rima Pavers	4 blocks	\$2,000	\$10,000
Granite Sets	5 blocks	\$200	\$1,000
Total Buildout Costs			\$53,312

Academic Ambulatory Care Centre  
Operating Budget Increases

Item	Quantity	Cost / Unit	Total Cost / Year
Street Lighting			
High Pressure Sodium Light Maintenance	10	\$300.18	\$3,002
Energy Costs	10	\$25.13	\$251
Total AACC Costs			\$3,253

Street Lighting

The City of Vancouver does not normally provide pedestrian level lighting as part of its approved level of service. The addition of the proposed pedestrian lights surrounding the VGH precinct would be an increase in the size of the Street Lighting Plant and will require a corresponding increase in the annual maintenance and operating budget.

The City has adopted the use of high pressure sodium (HPS) lighting as its current standard. This technology is used by the majority of North American cities and currently provides the best combination of efficiency and low operating cost. Metal Halide (MH) provides a white light but is less energy efficient and is more costly to maintain because the rated life of the lamp is typically one half of HPS. Using energy efficient lighting technologies reduces energy consumption which is important for sustainability considerations. In addition, lamps with longer rate life means that there is less maintenance costs including less vehicular travel to maintain the lights. Less vehicular usage means less overall air pollution.

On private lands within the VGH precinct MH lights will be installed and to correspond with this, the lighting through the Willow Street Pedestrian Corridor from 12<sup>th</sup> to 13<sup>th</sup> Avenues will have MH lights. All other lighting on City property surrounding the precinct will be HPS lights.

The annual budget increase is summarized as the following in 2006 dollars:

**Estimated Annual Maintenance Increase (Including Energy Costs)**

	Maintenance	Energy	Total
Unit increase Metal Halide (specialty equipment):	\$344.89	\$34.39	\$379.28
Unit increase High Pressure Sodium (specialty equipment):	\$300.18	\$25.13	\$325.31
Unit increase High Pressure Sodium (CoV standard equivalent):	\$161.43	\$25.13	\$186.56*
*for comparison purposes to specialty equipment			
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Total number of fixtures at completion of plan:		Metal Halide	12
		High Pressure Sodium	113
		<b>TOTAL</b>	<b>125</b>
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Net increase Metal Halide (specialty equipment):	\$4138	\$413	\$4,551
Net increase High Pressure Sodium (specialty equipment):	\$33,920	\$2,840	\$36,760
<b>Precinct TOTAL:</b>	<b>\$38,058</b>	<b>\$3,252</b>	<b>\$41,311</b>