
Date: July 16th, 2021
To: Police Services Board
From: Jeremy Hughes, Information Technology Manager
Subject: Ontario CCTV Grant Program

BACKGROUND

The Town of Fort Frances (*the “Town”*), in partnership with the Fort Frances OPP (*“Ontario Provincial Police”*), has a unique opportunity to apply for the Ontario CCTV (*“Closed Circuit Television”*) Grant Program. This one-year grant expands CCTV systems in municipalities as part of the Ontario Guns, Gangs and Violence Reduction Strategy (*“GGVRS”*).

The downtown core of Fort Frances regularly experiences relatively high crime rates. In 2020, 45% of all front line calls for service responded to by the Fort Frances OPP were in the downtown core, up from 40% in 2018 and 2019. These calls include violent, property, drug, and gun and gang related crime, along with operational calls for service. The concentration of calls originating from the downtown core is expected to increase as pandemic restrictions are lifted.

IMPLEMENTATION

The Ontario CCTV Grant Program provides 50% funding, up to a maximum of \$200,000. This opportunity would allow the Town to leverage significant capital savings by:

- Replacing existing standalone video surveillance equipment with a centralized system
- Expanding video surveillance capabilities throughout the downtown core
- Increasing the availability of video surveillance records to the OPP and expediting access to them

This proposal deploys networked surveillance cameras that integrate multiple lenses into 360° viewpoints along routes identified by the OPP. Cameras can be connected through a wireless point-to-multipoint deployment. Other implementations may also be viable. The inclusion of engineering costs to determine an optimal approach is recommended.

EXPECTED OUTCOMES

Video surveillance capabilities support the OPP’s vision for safe communities and a secure Ontario by:

- Decreasing violent crime and gun and gang activity
- Decreasing the time needed to identify suspects and witnesses
- Increasing the use of video surveillance to enhance and support OPP investigations
- Increasing criminal charges and court convictions
- Increasing overall community safety and well-being

Additional community partners and initiatives may further expand and enhance this project.

ATTACHMENTS

Attached is a document titled *2020 Heatmap* (1 page).

Attached is a document titled *Proposed Coverage* (2 pages).

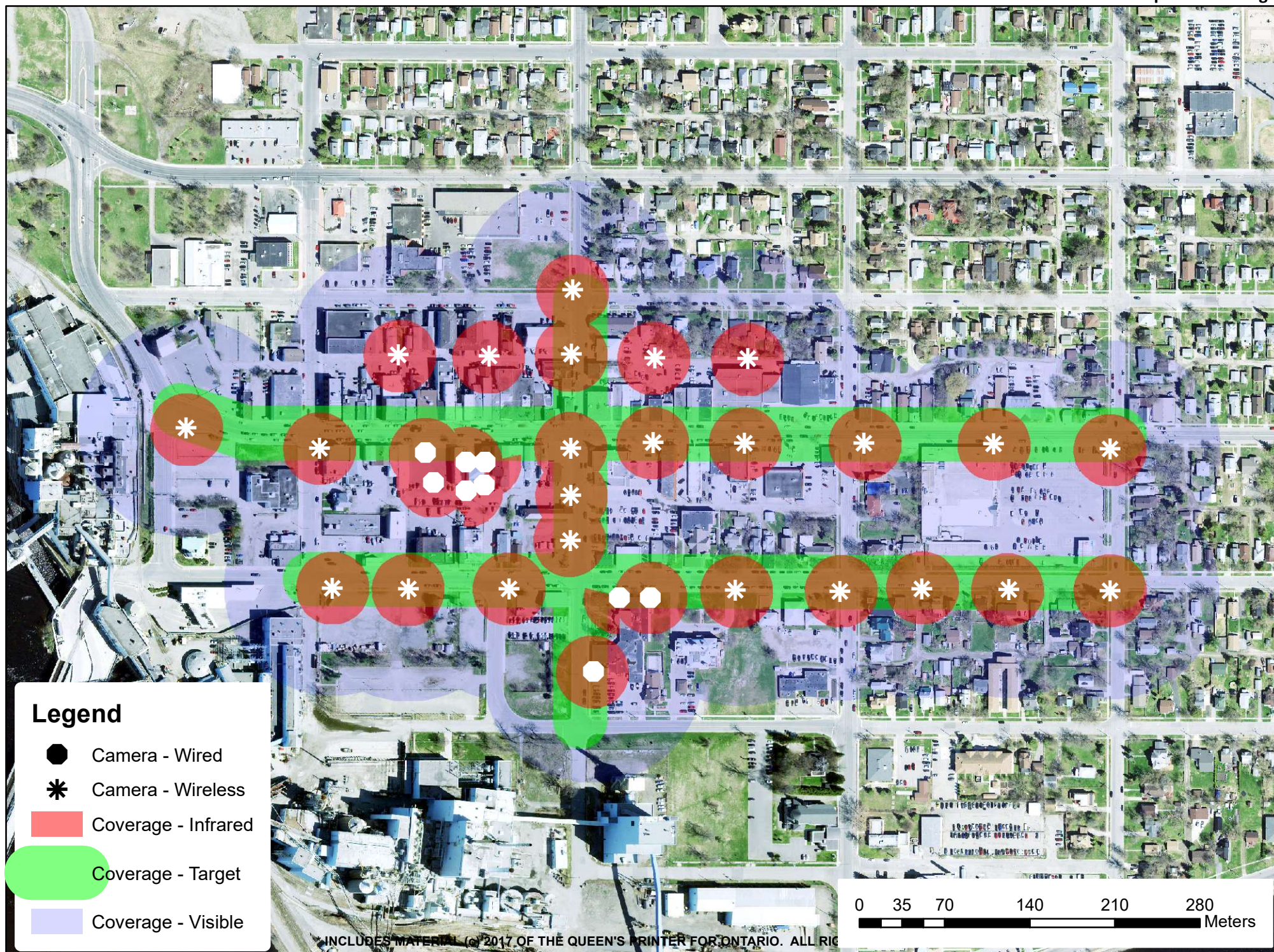
Attached is a document titled *Proposed Budget* (2 pages).

Police Services Board approval of this report will agree with the recommendation to:

- 1) Apply for the Ontario CCTV Grant Program for the 2021-2022 grant cycle through a partnership between the Town of Fort Frances and the Ontario Provincial Police.

2020 Heatmap

This heatmap displays the distribution of COVID-19 cases in Port Angeles, Washington, for the year 2020. The map shows a dense network of streets, with red circles of varying sizes representing individual cases. The circles are most concentrated in the central urban area, particularly along the main thoroughfares. The Rainy River is visible on the left and bottom edges of the map. The town of Port Angeles is labeled in the center. The map is titled '2020 Heatmap' in the top left corner.





Scenario A – Building Servers

Street	Block	Hardware	Installation	Engineering	Total Capital Costs	Annual Operating Costs
Church Street	200	\$16,731	\$995	\$1,773	\$19,499	\$748
Church Street	300	\$19,128	\$1,235	\$2,036	\$22,399	\$764
Church Street	400	\$16,731	\$995	\$1,773	\$19,499	\$748
Laneway North of Scott Street	200	\$16,795	\$603	\$1,740	\$19,138	\$831
Laneway North of Scott Street	300	\$11,094	\$603	\$1,170	\$12,867	\$499
Portage Avenue	300	\$22,460	\$361	\$2,282	\$25,103	\$835
Portage Avenue	400	\$11,184	\$693	\$1,188	\$13,065	\$499
Portage Avenue	500	\$11,184	\$693	\$1,188	\$13,065	\$499
Scott Street	100	\$5,637	\$391	\$603	\$6,631	\$205
Scott Street	200	\$42,035	\$9,362	\$5,140	\$56,537	\$3,151
Scott Street	300	\$16,731	\$1,438	\$1,817	\$19,986	\$614
Scott Street	400	\$16,731	\$1,881	\$1,861	\$20,473	\$659
Total		\$206,441	\$19,250	\$22,569	\$248,260	\$10,052

Cameras:

- 29x cameras with 360° field of view
 - 116x lenses with 2560 x 1920 resolution @ 24 FPS
- 5x cameras with 105° field of view (already purchased)
 - 5x lenses with 3840 x 2160 resolution @ 15 FPS

Network:

- 25x wireless endpoint access points
- 4x wireless multipoint access points
- 3x network switches

Computer hardware:

- 2x consumer-grade servers
- 2x access laptops

Storage:

- Redundant consumer-grade disks
- Recording 24/7/365
- 3-week retention

Scenario B – Buying Servers

	Street	Block	Hardware	Installation	Engineering	Total Capital Costs	Annual Operating Costs
	Church Street	200	\$19,413	\$995	\$2,041	\$22,449	\$748
	Church Street	300	\$22,024	\$1,235	\$2,326	\$25,585	\$764
	Church Street	400	\$19,413	\$995	\$2,041	\$22,449	\$748
	Laneway North of Scott Street	200	\$18,583	\$603	\$1,919	\$21,105	\$831
	Laneway North of Scott Street	300	\$12,882	\$603	\$1,349	\$14,834	\$499
	Portage Avenue	300	\$35,976	\$361	\$3,634	\$39,971	\$1,407
	Portage Avenue	400	\$12,972	\$693	\$1,367	\$15,032	\$499
	Portage Avenue	500	\$12,972	\$693	\$1,367	\$15,032	\$499
	Scott Street	100	\$6,531	\$391	\$692	\$7,614	\$205
	Scott Street	200	\$59,087	\$9,362	\$6,845	\$75,294	\$3,723
	Scott Street	300	\$19,413	\$1,438	\$2,085	\$22,936	\$614
	Scott Street	400	\$19,413	\$1,881	\$2,129	\$23,423	\$659
	Total		\$258,679	\$19,250	\$27,793	\$305,722	\$11,196

Cameras:

- 29x cameras with 360° field of view
 - 116x lenses with 2560 x 1920 resolution @ 24 FPS
- 5x cameras with 105° field of view (already purchased)
 - 5x lenses with 3840 x 2160 resolution @ 15 FPS

Network:

- 25x wireless endpoint access points
- 4x wireless multipoint access points
- 3x network switches

Computer hardware:

- 2x enterprise-grade servers
- 2x access laptops

Storage:

- Redundant enterprise-grade disks
- Recording 24/7/365
- 3-week retention