

Shadow Studies

The following shadow studies demonstrates the shadow impacts of the proposed development during the Spring / Fall Equinox. The proposed site currently has a one-storey building.

The proposed building is a 19 Storey residential building consisting of 132 units.

Lot Area: 1,981 m²
 Building Area: 1,567 m²
 Gross Floor Area: 12,708 m²
 Building Height: 60m + Mechanical Penthouse
 March 21st Sunrise: ±7:20am
 March 21st Sunset: ±7:33pm

The shadow impact study takes place from 8:50am until 6:03pm at hourly intervals, and is located at:
 Latitude: N43 degrees:15' 38.412"
 Longitude: W79 degrees:51' 53.49"

The as of right massing model is based off of a 17m high building for a H zone.

Mitigation measures include:

- 11 meter step at levels 3-16 along Robert St. and John St.
- 15.5 meter step at levels 3-16 along Robert St. and John St.

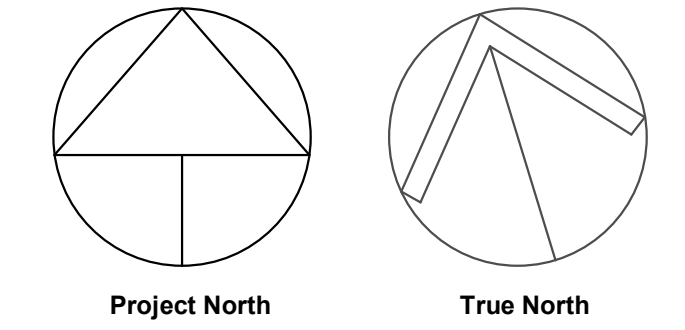
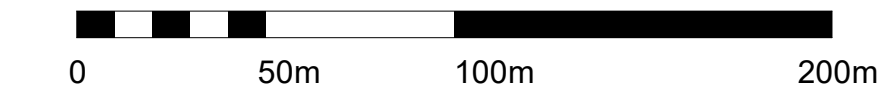
March 21st (Spring Equinox)

The proposed development has the following:

- No impact on the residential buildings across from the development on the North Side and John St N.
- Minor impact on the Parkland across from the development on John St. N between 3:03pm and 5:03pm.
- After 4:03pm, the proposed development will add new shadows as the existing Residential on the North end of John St N. adjacent from the proposed development is already casting large shadows; no new shadows will be cast at 5:47pm.
- No new shadows will impact McLaren Park

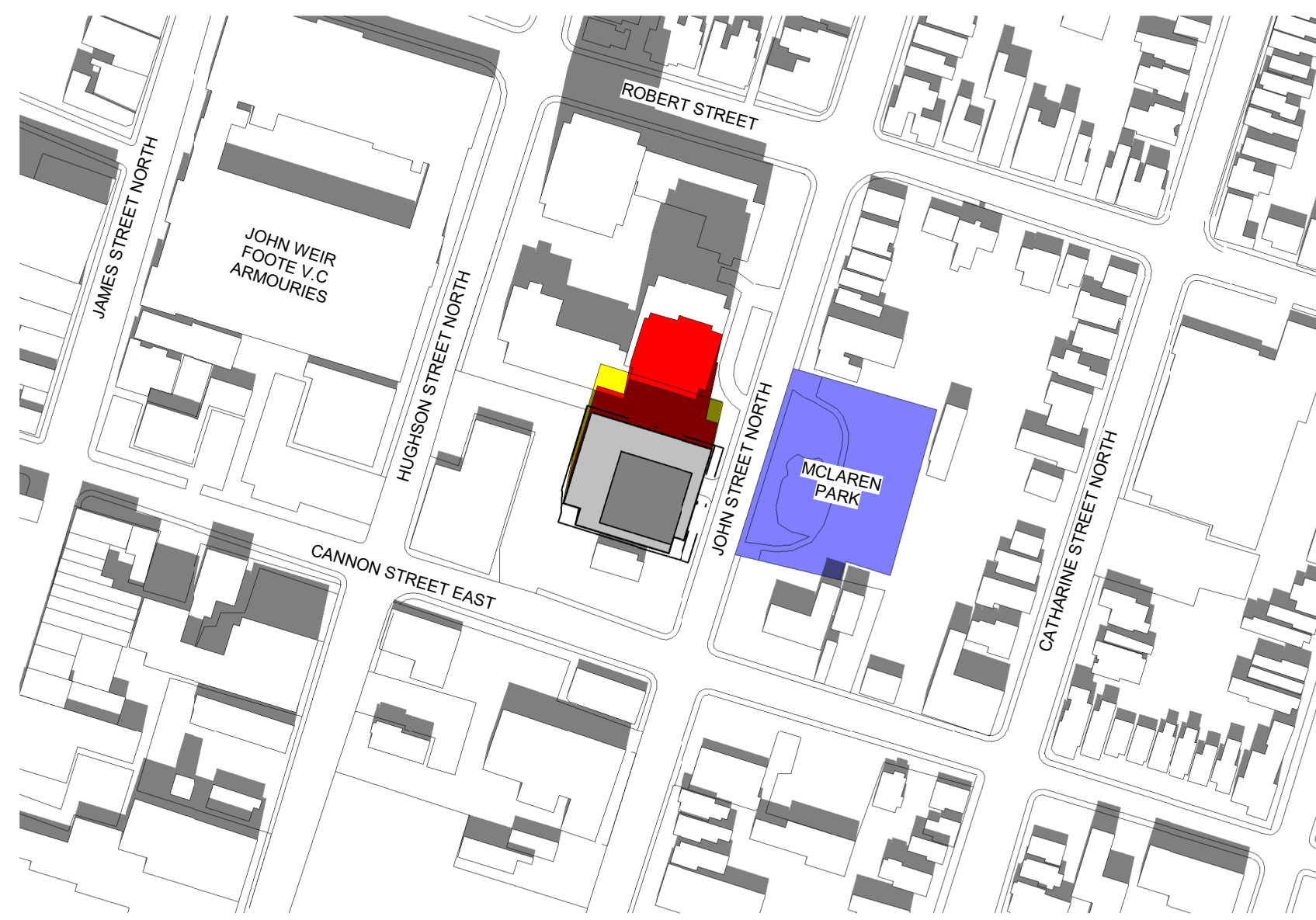
Legend

- PROPOSED DEVELOPMENT SHADOWS
- PARKLAND & HAMILTON GENERAL HOSPITAL
- EXISTING SHADOWS
- BY RIGHT SHADOWS
- PROPOSED BUILDING FOOTPRINT
- PROPERTY LINE



GENERAL NOTES

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
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7. THE CONSULTANT ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS MADE OR ACTIONS BASED ON THE CONTRACT DOCUMENTS.



6 SHADOW STUDY BASE MARCH 21 1PM
1:2000



5 SHADOW STUDY BASE MARCH 21 12 NOON
1:2000



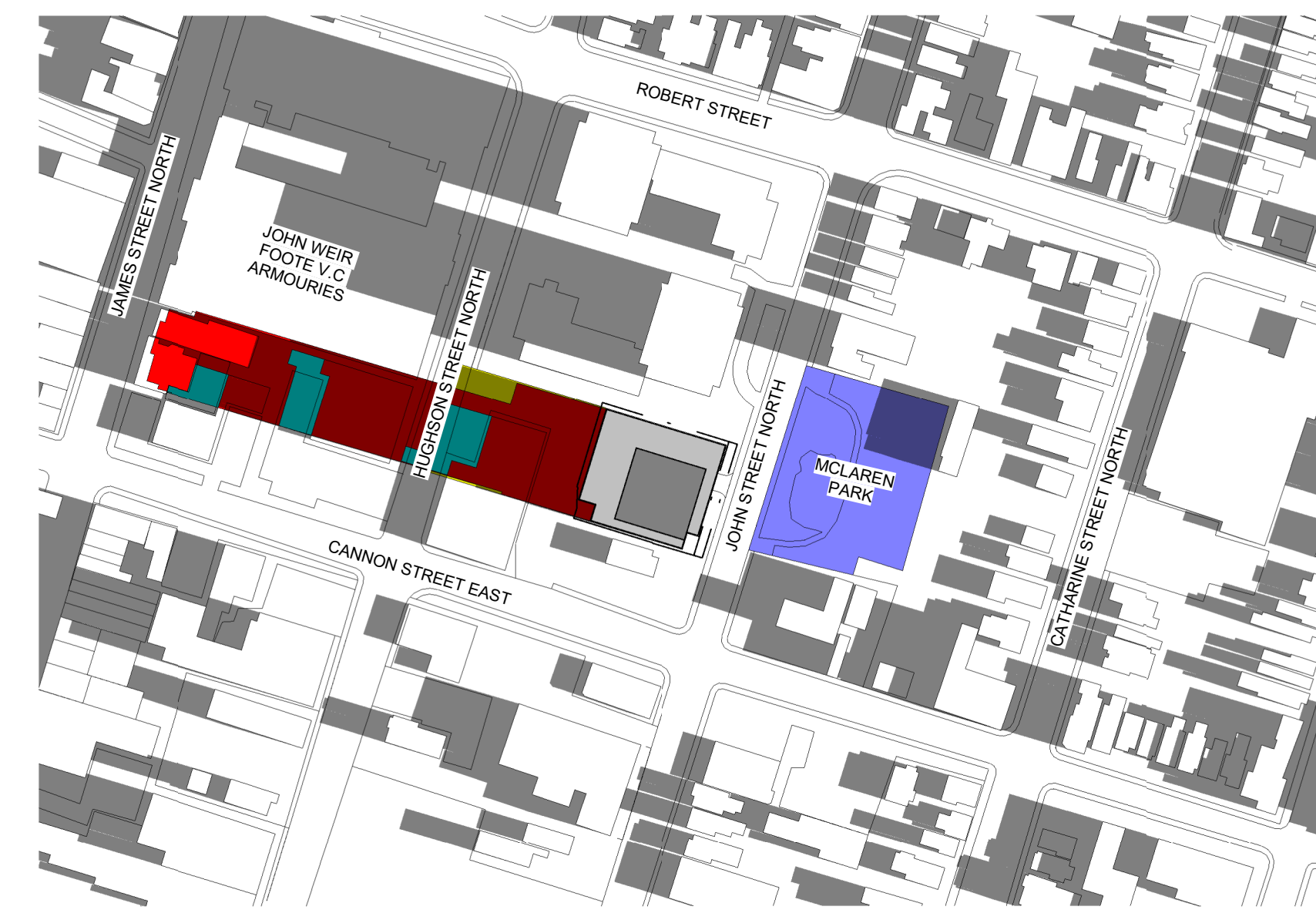
4 SHADOW STUDY BASE MARCH 21 11AM
1:2000



3 SHADOW STUDY BASE MARCH 21 10AM
1:2000



2 SHADOW STUDY BASE MARCH 21 9AM (90+ MINUTES AFTER SUNRISE)
1:2000



1 SHADOW STUDY BASE MARCH 21 8AM (45 MINUTES AFTER SUNRISE)
1:2000

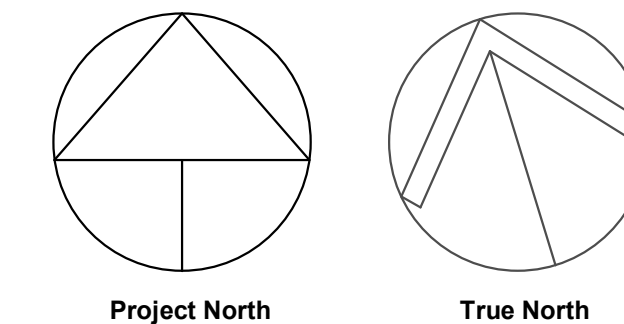
No.	Date	Revision

srm ARCHITECTS INC.	Project No.	22018
	Project Date	
	Drawn by	ECB
	Checked by	Checker
	Plot Date / Time	2022-11-17 9:49:35 AM

**175 JOHN ST N,
HAMILTON**

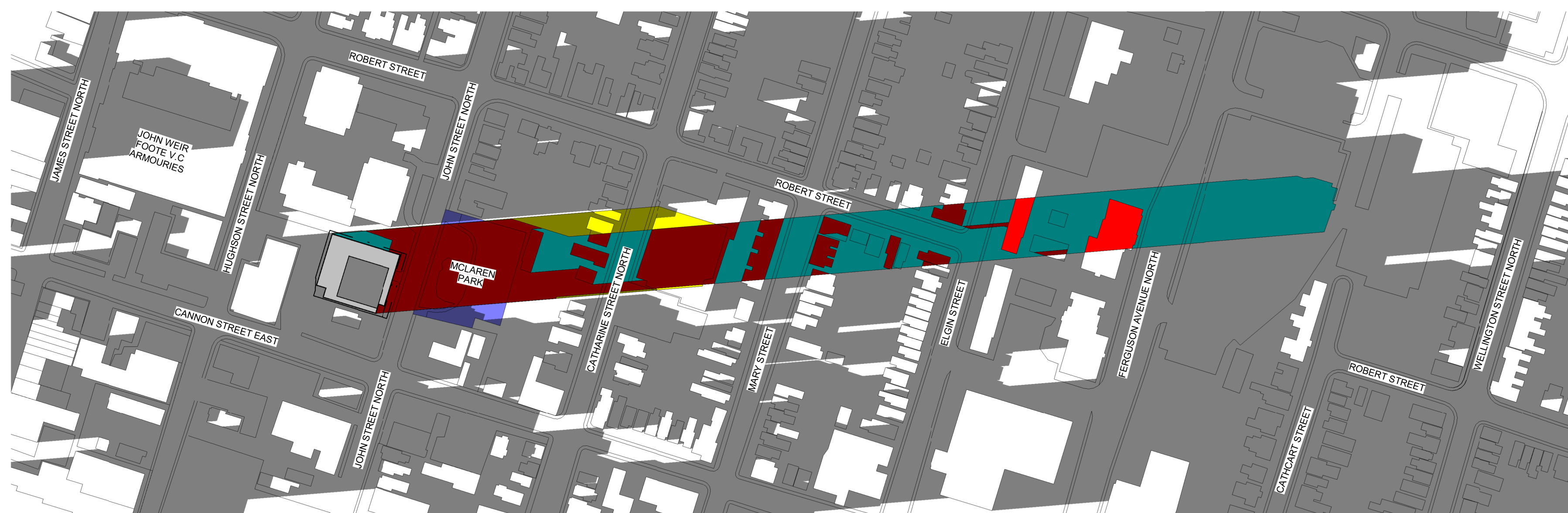
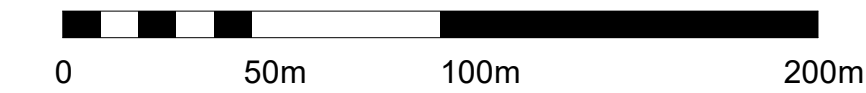
**SHADOW STUDIES -
MARCH 21st (1/2)**

Drawing Scale: As indicated
 Status:
 PRELIMINARY
 Drawing No. Revision No.
D4.1

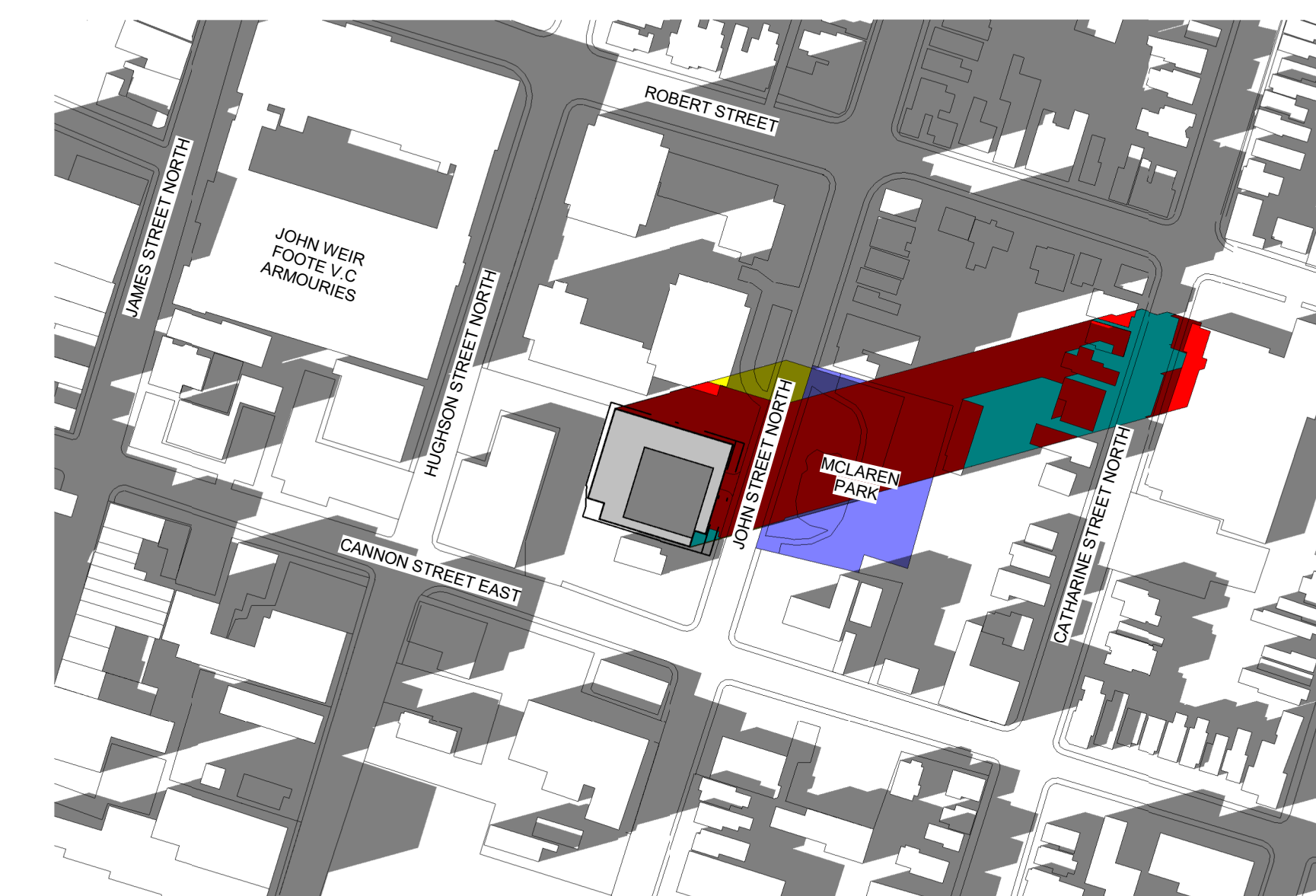


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- Legend**
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 - PARKLAND & HAMILTON GENERAL HOSPITAL
 - EXISTING SHADOWS
 - BY RIGHT SHADOWS
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 - PROPERTY LINE



5 SHADOW STUDY BASE MARCH 21 6 PM (90 MINUTES BEFORE SUNSET)
1:2000



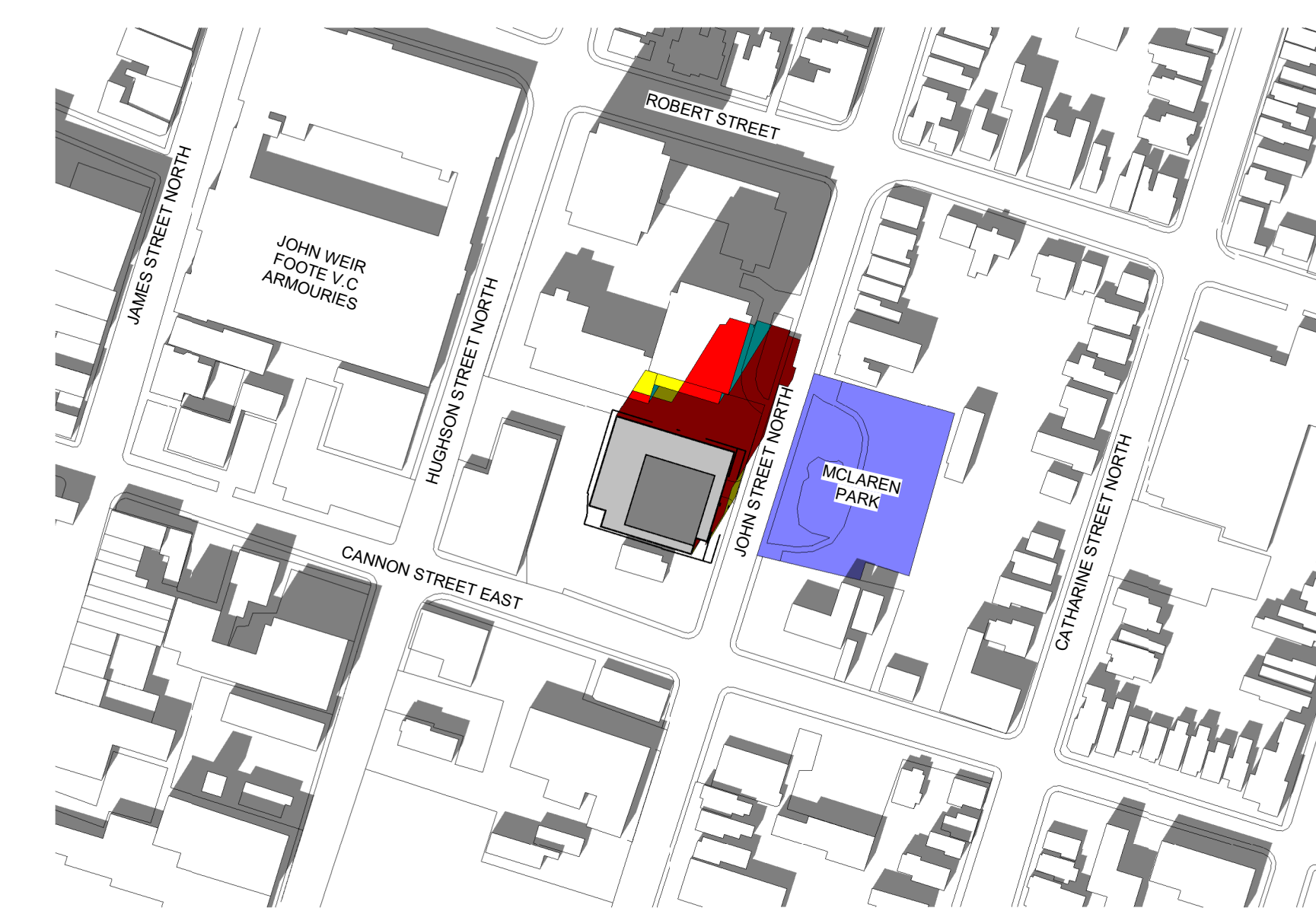
4 SHADOW STUDY BASE MARCH 21 5 PM
1:2000



3 SHADOW STUDY BASE MARCH 21 4 PM
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2 SHADOW STUDY BASE MARCH 21 3PM
1:2000



1 SHADOW STUDY BASE MARCH 21 2PM
1:2000

No.	Date	Revision

srm
ARCHITECTS INC.

Project No. 22018
Project Date
Drawn by ECB
Checked by Checker
Plot Date / Time: 2022-11-17 9:49:38 AM

**175 JOHN ST N,
HAMILTON**

**SHADOW STUDIES -
MARCH 21st (2/2)**

PRELIMINARY

Drawing No. _____
Revision No. _____

Drawing Scale: As indicated
Status: _____

D4.2

C:\Users\elboetche\Documents\22018 - 175 John St N, Hamilton - V6 SHADOW STUDY_eboetche\89101.rvt

Shadow Studies

The following shadow studies demonstrates the shadow impacts of the proposed development during the Spring / Fall Equinox. The proposed site currently has a one-storey building.

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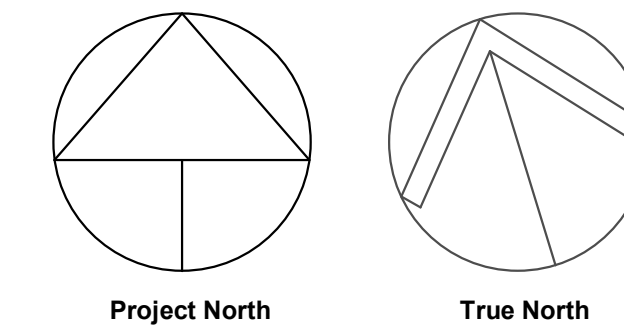
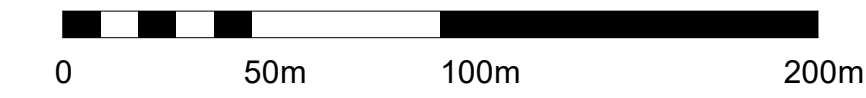
September 21st (Fall Equinox)

The proposed development has the following:

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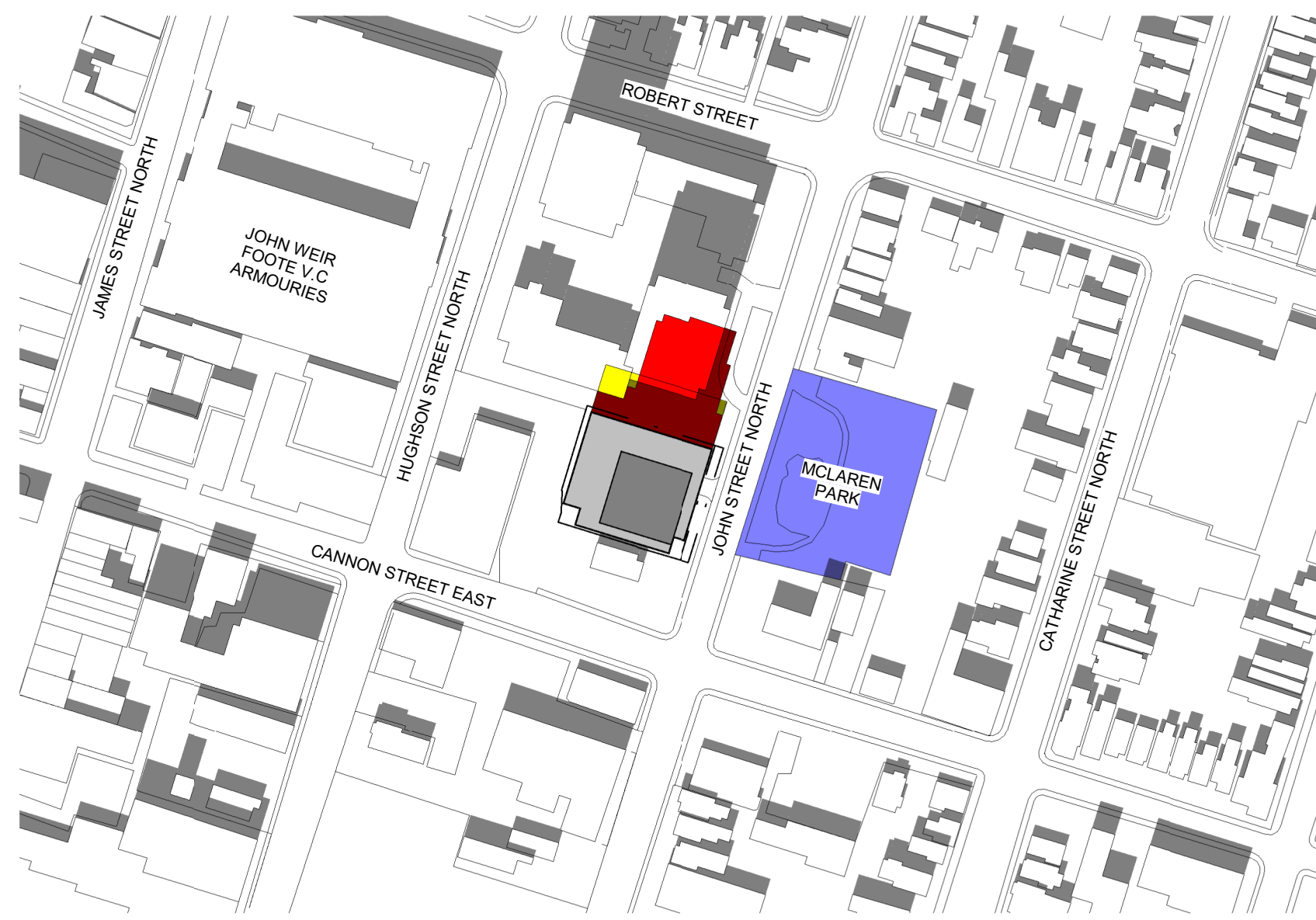
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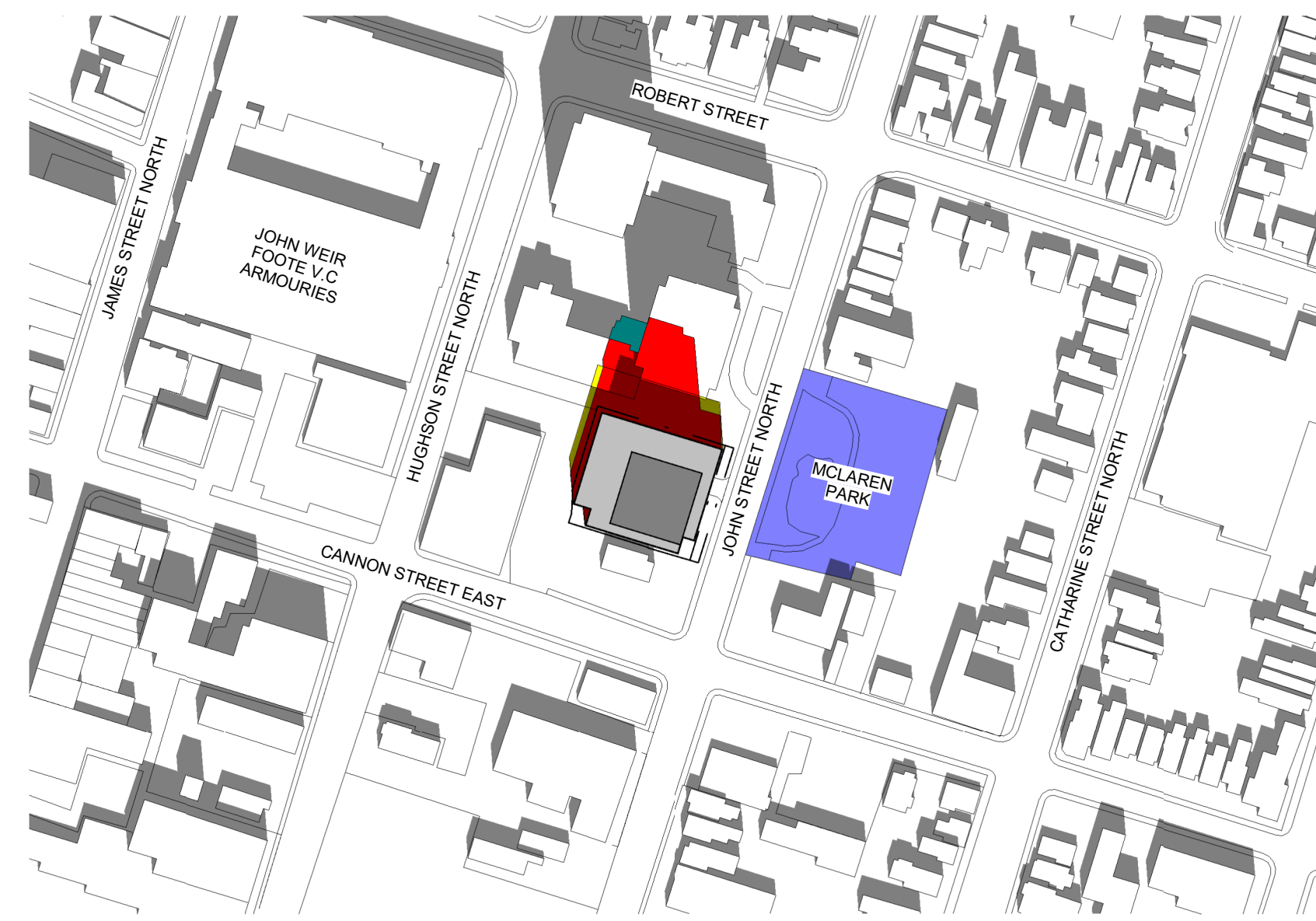


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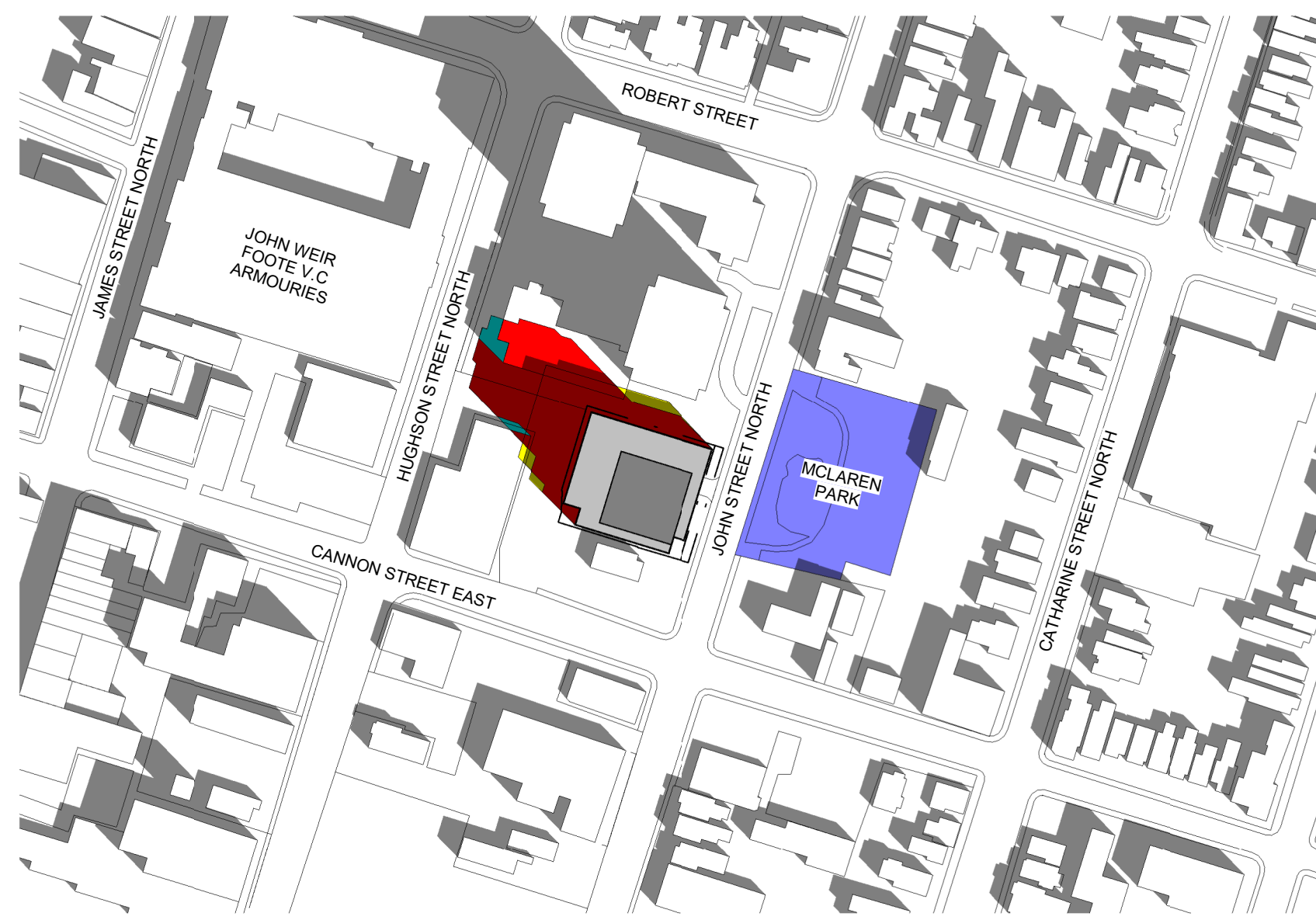
6 SHADOW STUDY BASE SEPTEMBER 21 1PM
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5 SHADOW STUDY BASE SEPTEMBER 21 12 NOON
1:2000



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1:2000

No.	Date	Revision
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srm ARCHITECTS INC.

Project No: 22018
 Project Date:
 Drawn by: ECB
 Checked by: Checker
 Plot Date / Time: 2022-11-17 9:49:41 AM

**175 JOHN ST N,
 HAMILTON**

**SHADOW STUDY -
 SEPTEMBER 21st (1/2)**

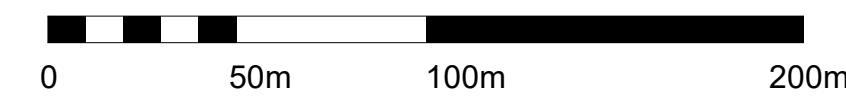
Drawing Scale: As indicated
 Status:

PRELIMINARY
 Drawing No. Revision No.

D4.3

C:\Users\elboettcher\Documents\22018 - 175 John St N, Hamilton - V6 SHADOW STUDY_eboettcherB9LQJ.rvt

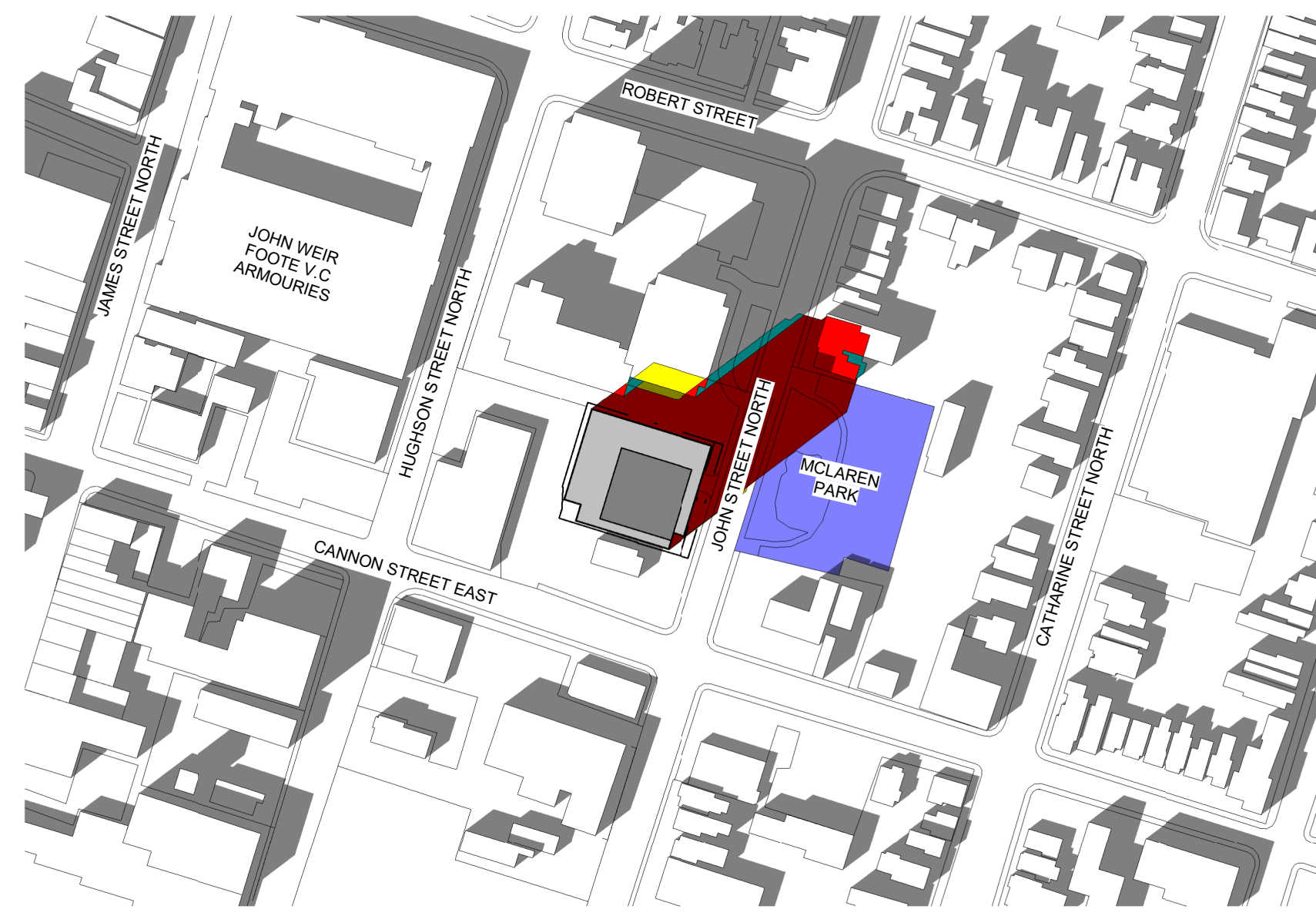
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5 SHADOW STUDY BASE SEPTEMBER 21 5PM
1:2000



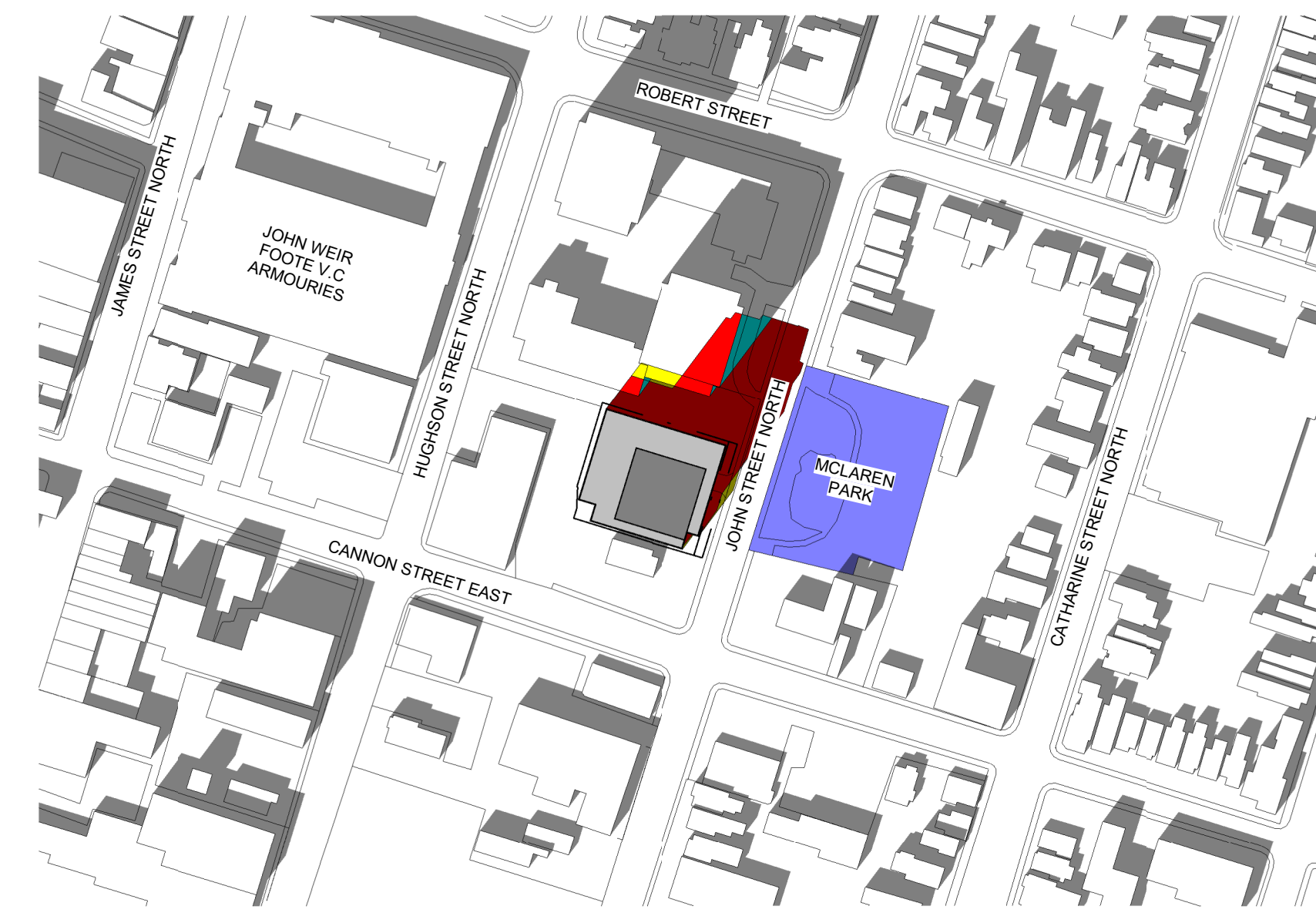
4 SHADOW STUDY BASE SEPTEMBER 21 6PM (90 MINUTES BEFORE SUNSET)
1:2000



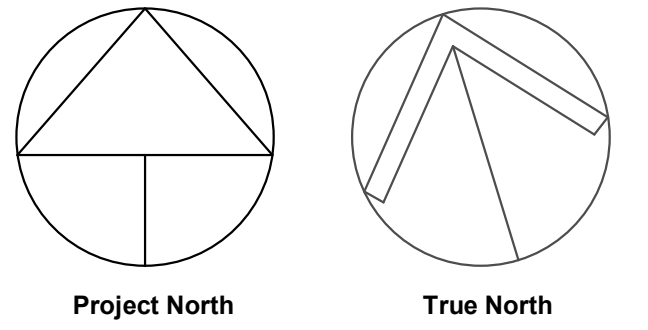
2 SHADOW STUDY BASE SEPTEMBER 21 3PM
1:2000



3 SHADOW STUDY BASE SEPTEMBER 21 4PM
1:2000



1 SHADOW STUDY BASE SEPTEMBER 21 2PM
1:2000



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ARCHITECTS INC.

Project No. 22018
Project Date
Drawn by ECB
Checked by Checker
Plot Date / Time: 2022-11-17 9:49:43 AM

**175 JOHN ST N,
HAMILTON**

**SHADOW STUDY -
SEPTEMBER 21st (2/2)**

Drawing Scale: As indicated
Status:

PRELIMINARY
Drawing No. Revision No.

D4.4