The following shadow studies demonstrates the shadow impacts of the proposed development during the Spring / Fall Equinox. The proposed site is currently located at 2481 Barton Street East, Hamilton, Ontario.

Tower = 17 Storey Tower with a net floor area of 795  $m^2$ Podium = 5 Storey Tower with a net floor area of 1,200 m<sup>2</sup>

March 21st sunrise = 7:20am +/- and sunset = 7:30pm +/-September 21st sunrise = 7:00am +/- and sunset = 7:18pm +/-

The shadow impact study for Spring Equinox takes place from 9:00am until 6:00pm at 1.5 hour intervals. The shadow impact study for Fall Equinox takes place from 8:30am until 6:00pm at 1.5 hour intervals. Latitude:43.236974 Longitude:-79.759063

Mitigation measures include:

- Level 6 has been stepped back at the podium. •
- Level 7-17 are kept away from the East and North property lines. •
- Level 6 to feature outdoor amenities. •
- Building located away from north property line (Project North). Parking entrance and ramp located within building footprint. • •



**1** SHADOW STUDY MARCH 21st 9:00 AM (SUNRISE +/- 7:20 AM) 1:2500



3 SHADOW STUDY MARCH 21st 12:00 PM

#### March 21st (Spring Equinox) The proposed development has the following:

- The proposed development has no impact on Barton Street East on March 21st. •
- The proposed development has no impact on the Centennial Parkway North from +/-10:00am to sunrise. ۲
- The proposed development has no impact on the Covington Street from sunrise to +/- 5:00pm. •
- The proposed development has minor impact on the adjacent commercial / industrial plazas from sunrise to sunset. •

## Conclusion: March 21st.

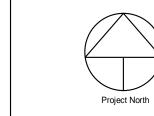
- No impact on public realm, plaza, parks or green spaces. •
- Proposed development is not located within the Downtown Hamilton area. ۲
- Adjacent car dealership is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlight within a typical day • (not including sunlight caused by existing buildings).
- Adjacent gas station is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlight within a typical day (not • including sunlight caused by existing buildings).
- Adjacent industrial property is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlight within a typical • day (not including sunlight caused by existing buildings).
- Sidewalk adjacent to Barton Street is not impacted by shadows. •
- Sidewalk adjacent to Centennial Parkway receives around 11 hours of sunlight a day. •
- The proposed development does not have any impact on any existing surrounding residential buildings •

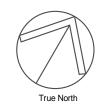


2 SHADOW STUDY MARCH 21st 10:30 AM



4 SHADOW STUDY MARCH 21st 1:30 PM





SHADOW STUDY LEGEND				
	AS-OF-RIGHT SHADOW (4 STOREY, 17m HEIGHT)	PROPERTY LINE		
	PROPOSED DEVELOPMENT SHADOWS (17 STOREY, 53m HEIGHT)	EXTENT OF SHADOW STUDY		
	NEW NET SHADOWS	<b>NOTE:</b> TIMES HAVE BEEN ADJUSTED FOR DAYLIGHT SAVINGS.		
	PROPOSED BUILDING FOOTPRINT			



Scale 1 : 2500FULL SIZE125Scale 1 : 5000HALF SIZE

21033 12/14/22 Prepared by: SRM Architects



The following shadow studies demonstrates the shadow impacts of the proposed development during the Spring / Fall Equinox. The proposed site is currently located at 2481 Barton Street East, Hamilton, Ontario.

Tower = 17 Storey Tower with a net floor area of 795  $m^2$ Podium = 5 Storey Tower with a net floor area of 1,200  $m^2$ 

March 21st sunrise = 7:20am +/- and sunset = 7:30pm +/-September 21st sunrise = 7:00am +/- and sunset = 7:18pm +/-

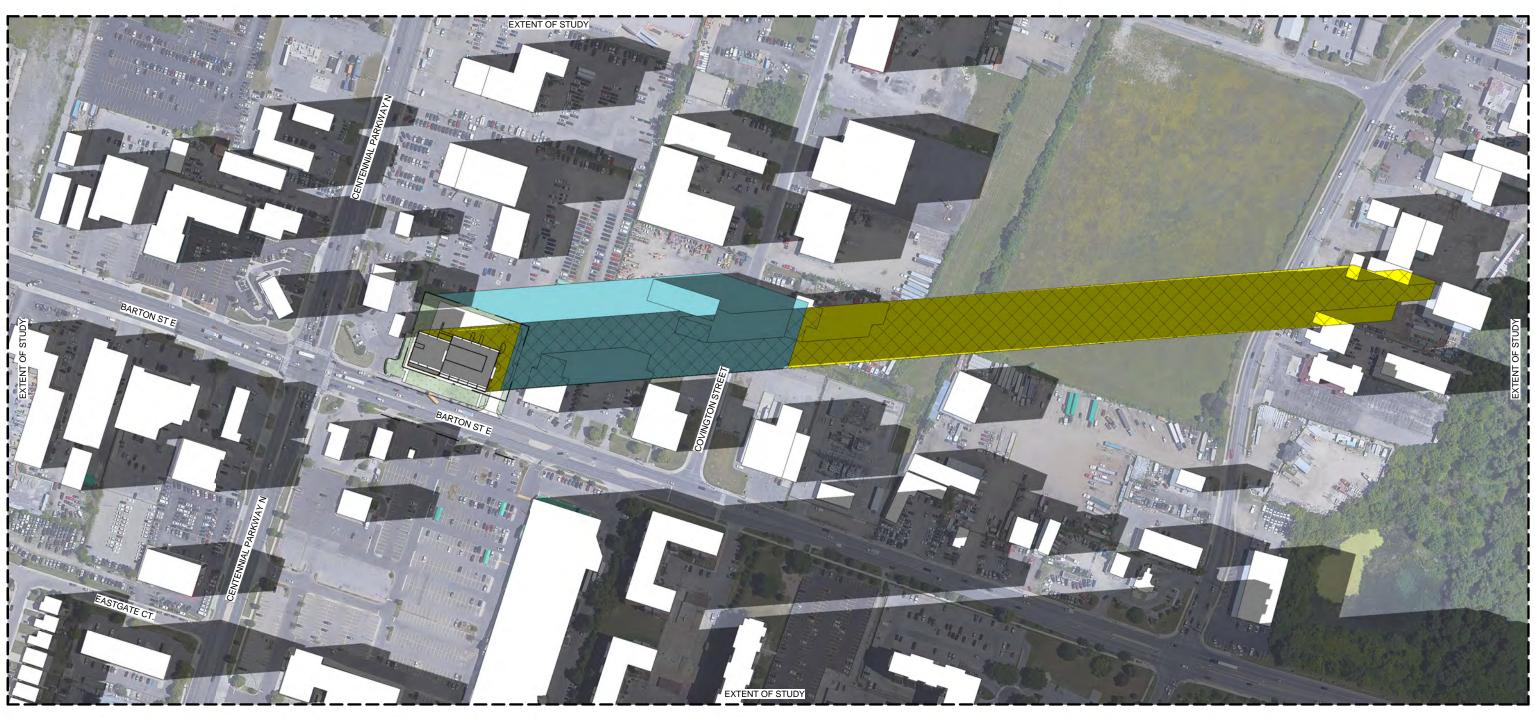
The shadow impact study for Spring Equinox takes place from 9:00am until 6:00pm at 1.5 hour intervals. The shadow impact study for Fall Equinox takes place from 8:30am until 6:00pm at 1.5 hour intervals. Latitude:43.236974 Longitude:-79.759063

Mitigation measures include:

- Level 6 has been stepped back at the podium.
- Level 7-17 are kept away from the East and North property lines.
- Level 6 to feature outdoor amenities.
- Building located away from north property line (Project North).
  Parking entrance and ramp located within building footprint.



1) SHADOW STUDY MARCH 21st 3:00 PM



**3** SHADOW STUDY MARCH 21st 6:00 PM (SUNSET @ 7:30 PM) 1:2500

# March 21st (Spring Equinox) The proposed development has the following:

- The proposed development has no impact on Barton Street East on March 21st.
- The proposed development has no impact on the Centennial Parkway North from +/-10:00am to sunrise.
- The proposed development has no impact on the Covington Street from sunrise to +/- 5:00pm.
- The proposed development has minor impact on the adjacent commercial / industrial plazas from sunrise to sunset.

# Conclusion: March 21st.

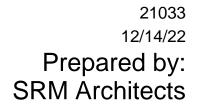
- No impact on public realm, plaza, parks or green spaces.
- Proposed development is not located within the Downtown Hamilton area.
- Adjacent car dealership is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlight v (not including sunlight caused by existing buildings).
- Adjacent gas station is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlight withi including sunlight caused by existing buildings).
- Adjacent industrial property is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlig day (not including sunlight caused by existing buildings).
- Sidewalk adjacent to Barton Street is not impacted by shadows.
- Sidewalk adjacent to Centennial Parkway receives around 11 hours of sunlight a day.
- The proposed development does not have any impact on any existing surrounding residential buildings



2 SHADOW STUDY MARCH 21st 4:30 PM

within a typical day		
in a typical day (not		
ght within a typical		

SHADOW STUDY LEGEND				
	AS-OF-RIGHT SHADOW (4 STOREY, 17m HEIGHT)	PROPERTY LINE		
	PROPOSED DEVELOPMENT SHADOWS (17 STOREY, 53m HEIGHT)	EXTENT OF SHADOW STUDY		
	NEW NET SHADOWS	<b>NOTE:</b> TIMES HAVE BEEN ADJUSTED FOR DAYLIGHT SAVINGS.		
	PROPOSED BUILDING FOOTPRINT			





The following shadow studies demonstrates the shadow impacts of the proposed development during the Spring /Fall Equinox. The proposed site is currently located at 2481 Barton Street East, Hamilton, Ontario.

Tower = 17 Storey Tower with a net floor area of 795  $m^2$ Podium = 5 Storey Tower with a net floor area of 1,200  $m^2$ 

March 21st sunrise = 7:20am +/- and sunset = 7:30pm +/-September 21st sunrise = 7:00am +/- and sunset = 7:18pm +/-

The shadow impact study for Spring Equinox takes place from 9:00am until 6:00pm at 1.5 hour intervals. The shadow impact study for Fall Equinox takes place from 8:30am until 6:00pm at 1.5 hour intervals. Latitude:43.236974 Longitude:-79.759063

Mitigation measures include:

- Level 6 has been stepped back at the podium.
- Level 7-17 are kept away from the East and North property lines.
- Level 6 to feature outdoor amenities.
- Building located away from north property line (Project North).
- Parking entrance and ramp located within building footprint.



1) SHADOW STUDY SEPTEMBER 21st 8:30 AM (SUNRISE +/- 7:00 AM)



3 SHADOW STUDY SEPTEMBER 21st 11:30 AM

#### September 21st (Fall Equinox) The proposed development has the following:

- The proposed development has no impact on Barton Street East on September 21st.
- The proposed development has no impact on the Centennial Parkway North from +/-10:00am to sunrise.
- The proposed development has no impact on the Covington Street from sunrise to +/- 4:30pm.
- The proposed development has impact on the adjacent commercial / industrial plazas from sunrise to sunset.

## Conclusion: September 21st.

- No impact on public realm, plaza, parks or green spaces.
- Proposed development is not located within the Downtown Hamilton area.
- Adjacent car dealership is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlight within a typical day (not including sunlight caused by existing buildings).
- Adjacent gas station is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlight within a typical day (not including sunlight caused by existing buildings).
  Adjacent industrial property is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlight within a typical day (not including sunlight caused by existing buildings).
- Adjacent commercial plaza is not greatly impacted and receives more than 50% sun coverage, i.e. 8 hours of sunlight within a typical day (not including sunlight caused by existing buildings).
   Sidewalk adjacent to Barton Street is not impacted by shadows.
- Sidewalk adjacent to Centennial Parkway receives around 11 hours of sunlight a day.
- The proposed development does not have any impact on any existing surrounding residential buildings



2 SHADOW STUDY SEPTEMBER 21st 10:00 AM

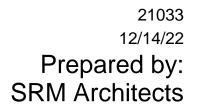


4 SHADOW STUDY SEPTEMBER 21st 1:00 PM



in a typical day (not including sunlight caused by existing buildings). a typical day (not including sunlight caused by existing buildings). within a typical day (not including sunlight caused by existing buildings). within a typical day (not including sunlight caused by existing buildings).

SHADOW STUDY LEGEND				
	AS-OF-RIGHT SHADOW (4 STOREY, 17m HEIGHT)	PROPERTY LINE		
	PROPOSED DEVELOPMENT SHADOWS (17 STOREY, 53m HEIGHT)	EXTENT OF SHADOW STUDY		
	NEW NET SHADOWS	NOTE: TIMES HAVE BEEN ADJUSTED FOR DAYLIGHT SAVINGS.		
	PROPOSED BUILDING FOOTPRINT			





The following shadow studies demonstrates the shadow impacts of the proposed development during the Spring /Fall Equinox. The proposed site is currently located at 2481 Barton Street East, Hamilton, Ontario.

Tower = 17 Storey Tower with a net floor area of  $795 \text{ m}^2$ Podium = 5 Storey Tower with a net floor area of 1,200 m<sup>2</sup>

March 21st sunrise = 7:20am +/- and sunset = 7:30pm +/-September 21st sunrise = 7:00am +/- and sunset = 7:18pm +/-

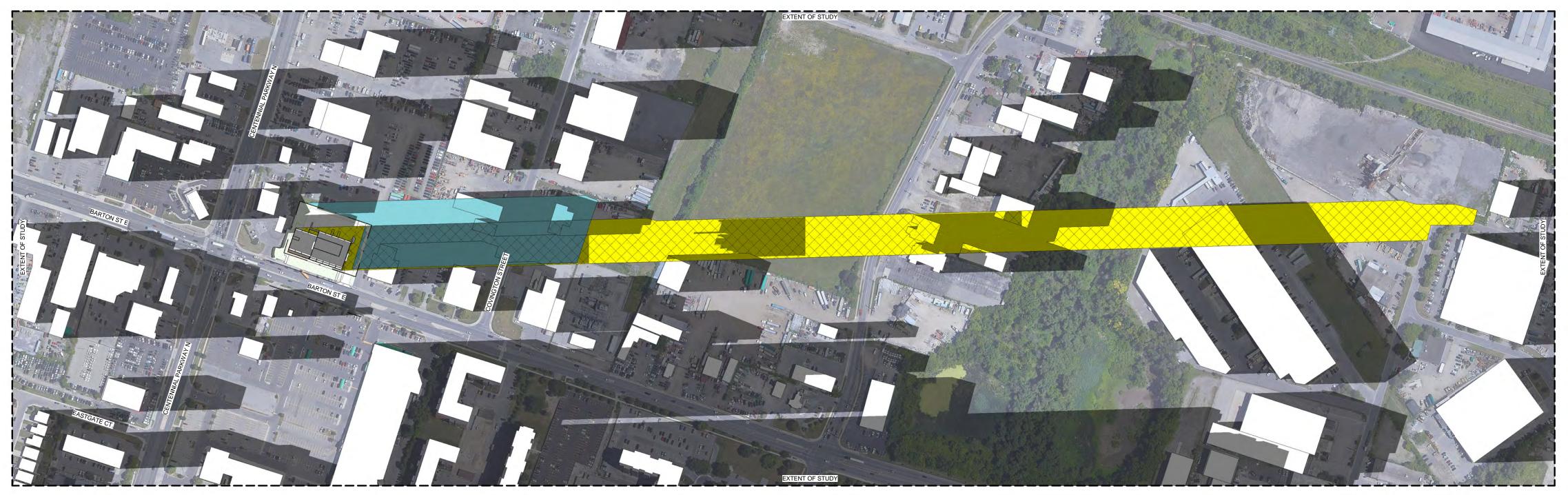
The shadow impact study for Spring Equinox takes place from 9:00am until 6:00pm at 1.5 hour intervals. The shadow impact study for Fall Equinox takes place from 8:30am until 6:00pm at 1.5 hour intervals. Latitude:43.236974 Longitude:-79.759063

Mitigation measures include:

- Level 6 has been stepped back at the podium. •
- Level 7-17 are kept away from the East and North property lines.
- Level 6 to feature outdoor amenities. •
- Building located away from north property line (Project North). •
- Parking entrance and ramp located within building footprint. •



SHADOW STUDY SEPTEMBER 21st 2:30 PM  $(\mathbf{1})$ 



3 SHADOW STUDY SEPTEMBER 21st 6:00 PM (SUNSET @ 7:18 PM)

#### September 21st (Fall Equinox) The proposed development has the following:

- The proposed development has no impact on Barton Street East on September 21st.
- The proposed development has no impact on the Centennial Parkway North from +/-10:00am to sunrise. •
- The proposed development has no impact on the Covington Street from sunrise to +/- 4:30pm.
- The proposed development has impact on the adjacent commercial / industrial plazas from sunrise to sunset. •

## Conclusion: September 21st.

- No impact on public realm, plaza, parks or green spaces.
- Proposed development is not located within the Downtown Hamilton area.
- Adjacent car dealership is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlight within a typical day (not including sunlight caused by existing buildings). •
- Adjacent gas station is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlight within a typical day (not including sunlight caused by existing buildings).
- Adjacent industrial property is not greatly impacted and receives more than 50% sun coverage, i.e. 7 hours of sunlight within a typical day (not including sunlight caused by existing buildings). Adjacent commercial plaza is not greatly impacted and receives more than 50% sun coverage, i.e. 8 hours of sunlight within a typical day (not including sunlight caused by existing buildings).
- Sidewalk adjacent to Barton Street is not impacted by shadows. •
- Sidewalk adjacent to Centennial Parkway receives around 11 hours of sunlight a day. •
- The proposed development does not have any impact on any existing surrounding residential buildings



2 SHADOW STUDY SEPTEMBER 21st 4:00 PM



SHADOW STUDY LEGEND				
	AS-OF-RIGHT SHADOW (4 STOREY, 17m HEIGHT)	PROPERTY LINE		
	PROPOSED DEVELOPMENT SHADOWS (17 STOREY, 53m HEIGHT)	EXTENT OF SHADOW STUDY		
	NEW NET SHADOWS	NOTE: TIMES HAVE BEEN ADJUSTED FOR DAYLIGHT SAVINGS.		
	PROPOSED BUILDING FOOTPRINT			

