

49 South Service Rd. Mississauga

Shadow Study Written Analysis  
Prepared – October 5, 2022

The latitude and longitude used in the preparation of the shadow study is as follows:

Latitude: 43 degrees 35' 20" N  
Longitude: 79 degrees 38' 40" W

North has been determined using a UTM coordinate system using NAD 83 Original to determine north.

The Origin/Source Plan is derived from observed reference points A and B having a bearing of N37°35'55"E by real time network (RTN) observation, and are referred to the 6° UTM Coordinate system, zone 17, central meridian 81°00' West Longitude. (3° modified transverse Mercator projection, NAD 83 (CSRS-2010))

The following is the summary of all the shadow impact criteria that has been met.

3.1. Residential Private Outdoor Amenity Spaces:

There is no shadow impact within more than two consecutive hourly test times within the impact zone of nearby residential properties.

3.2. Communal Outdoor Amenity Areas:

Shadows from proposed developments allow for full sun on the communal outdoor amenity areas more than half the time, on June 21, September 21 and December 21.

**PARTNERS**

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3.3. Public Realm including sidewalks, open spaces, parks and plazas:

There is no incremental shade from the proposed development on the opposite boulevard including the full width of the sidewalk on September 21 at 12:12 p.m., 1:12 p.m. and 2:12 p.m., and three consecutive times at 9:12 a.m., 10:12 a.m. and 11:12 a.m.

There are no public open spaces, parks and plazas near the proposed development.

3.4. Turf and flower gardens in public parks:

The proposed development's shadow does not impact the growing season from March to October of any public park.

3.5. Building Faces to allow for the possibility of using solar energy:

The proposed development does not have a shadow impact for more than two consecutive hourly test times in the No Impact zone on September 21.



Sincerely,

Brent Whitby

