

# COREARCHITECTS

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12 December 2022

Re: Shadow Study Analysis

Project No. : 17-382\_58 Wellington East, Guelph

Latitude: N 43 degrees: 32' 35"

Longitude: W 80 degrees: 14' 55"

The shadow study was prepared by CORE Architects Inc. The proposed buildings were massed based on the *Issued for OPA and ZBA* drawing set dated 2 December 2022, also prepared by CORE. In the attached shadow study, the proposed building (23 storey tower) shadow is shown in yellow, the as of right (18 storey tower) shadow is shown in peach, the existing shadows of the context buildings is shown in grey.

True North was determined from the site survey prepared by Black, Shoemaker, Robinson & Donaldson Limited. dated January 12, 2018. The base plan was created by CORE Architects Inc. in sketch up using the survey for the immediate site context and google maps and street view to estimate the location and height of the extended context buildings.

The shadow study times, dates and impacts outlined below were completed in accordance with the *City of Guelph Sun and Shadow Study Terms of Reference*.

## 1. Residential Amenity Space

There is no new shadow impact for more than 2 consecutive hours on any yards, decks, patios or pools or within 3m of the rear of a dwelling. The proposed building cast shadow onto the rear yards of single family dwellings to the northwest in the mornings. The shadow cast clears each yard in 2 hours or less.

## 2. Places where Children Play

With the exception of Heritage park there is are no school yards, tot-lots, or play areas that are shadowed by the proposed building at any time of day. Minimal shadowing happens on the southern edge of Heritage park on April, June & September 21 after 4pm.

### 3. Public Realm

Shadows from the proposed development shadow onto parts of the adjacent sidewalk on Surrey Street East on September 21 in the morning hours, but the sidewalk is completely clear of shadows from 12:00pm onwards.

Shadows from the proposed development allow for 3 hours of sunlight on the adjacent sidewalk on Wyndham Street South in the morning from 9am – 12pm, as the shadow moves along Wyndham at least 1 additional hour of sunlight is provided in sections along the adjacent sidewalk.

### 4. Community Gardens, and turf and flower gardens in Public Parks

There are no community gardens or turf and flower gardens in Public Parks that are impacted by the proposed development.

### 5. Cultural Heritage Resources

There are no historical buildings or landmarks that are impacted by the proposed development.

Sincerely,

A handwritten signature in black ink, appearing to read 'Deni Poletti', with a long, sweeping flourish extending to the right.

Deni Poletti, B.ARCH., OAA  
Principal