



Shadow Study

Rangeview Estates Development Master Plan

Mississauga, ON

Rangeview Landowners Group Inc.

November 2022



Job Number
20167

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Introduction and Summary

The following shadow study has been prepared by Bousfields Inc., on behalf of the Rangeview Landowners Group Inc., to demonstrate the general shadow impacts cast by the proposed building forms envisioned in the Rangeview Estates Development Master Plan (Rangeview DMP). The Rangeview DMP will primarily be composed of mid-rise built form; with a mix of low-rise buildings and taller elements. The built form illustrated in this shadow study – and the corresponding DMP – is conceptual, with the exact designs and architectural details being determined at a later development approvals process when each parcel plans to develop. Built form demonstrated within the Lakeview Village Development area was interpreted from publicly available documents.

Bousfields Inc. has prepared this shadow study in accordance with the terms of reference associated with the preparation of a Development Master Plan. This shadow study is generally based on the requirements set out in Mississauga's Urban Design Terms of Reference – Standards for Shadow Studies June 2014.

1.1 Site Latitude and Longitude

The latitude and longitude for the Rangeview Estates Precinct was defined by SketchUp Pro:

- Latitude: 43.574577 N
- Longitude: 79.559169 W

Astronomic north was also determined by geolocating the 3-Dimensional model in SketchUp Pro.

1.2 Time Zone

Eastern Time Zone (ET)

Standard Time: UTC - 5 hours - applies on December 21st

Daylight Time: UTC - 4 hours - applies on June 21st and September 21st

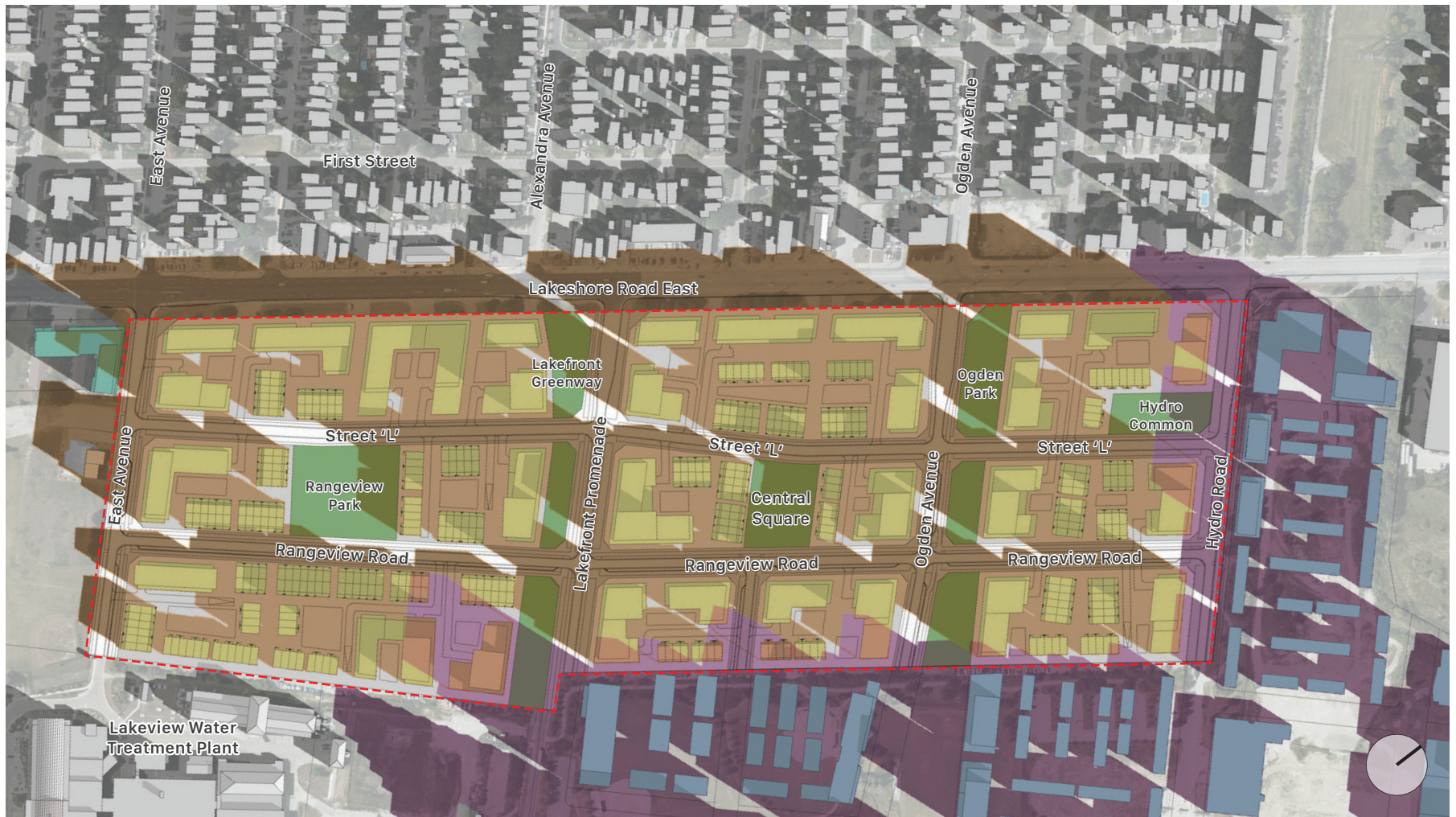
1.3 Software Used to Prepare Shadow Analysis

SketchUp Pro was used for 3-Dimensional modeling and exporting the shadow study imagery. The exported images were compiled and developed in Adobe Photoshop.

1.4 Summary of Analysis

In general, the shadows cast by the Rangeview DMP buildings on proposed parks - and the immediate context - are relatively limited and appropriate. The shadows cast are typical of an intensified, urban environment that includes mid-rise and taller buildings. The proposed parks experience minimal, to no, shadow impacts within hourly intervals before and after solar noon. Shadow impacts on the proposed parks generally occur during the mornings and late afternoons. Overall, it is important to note that this shadow study demonstrates general massing envelopes that are conceptual, and are subject to change at a later development approvals process.

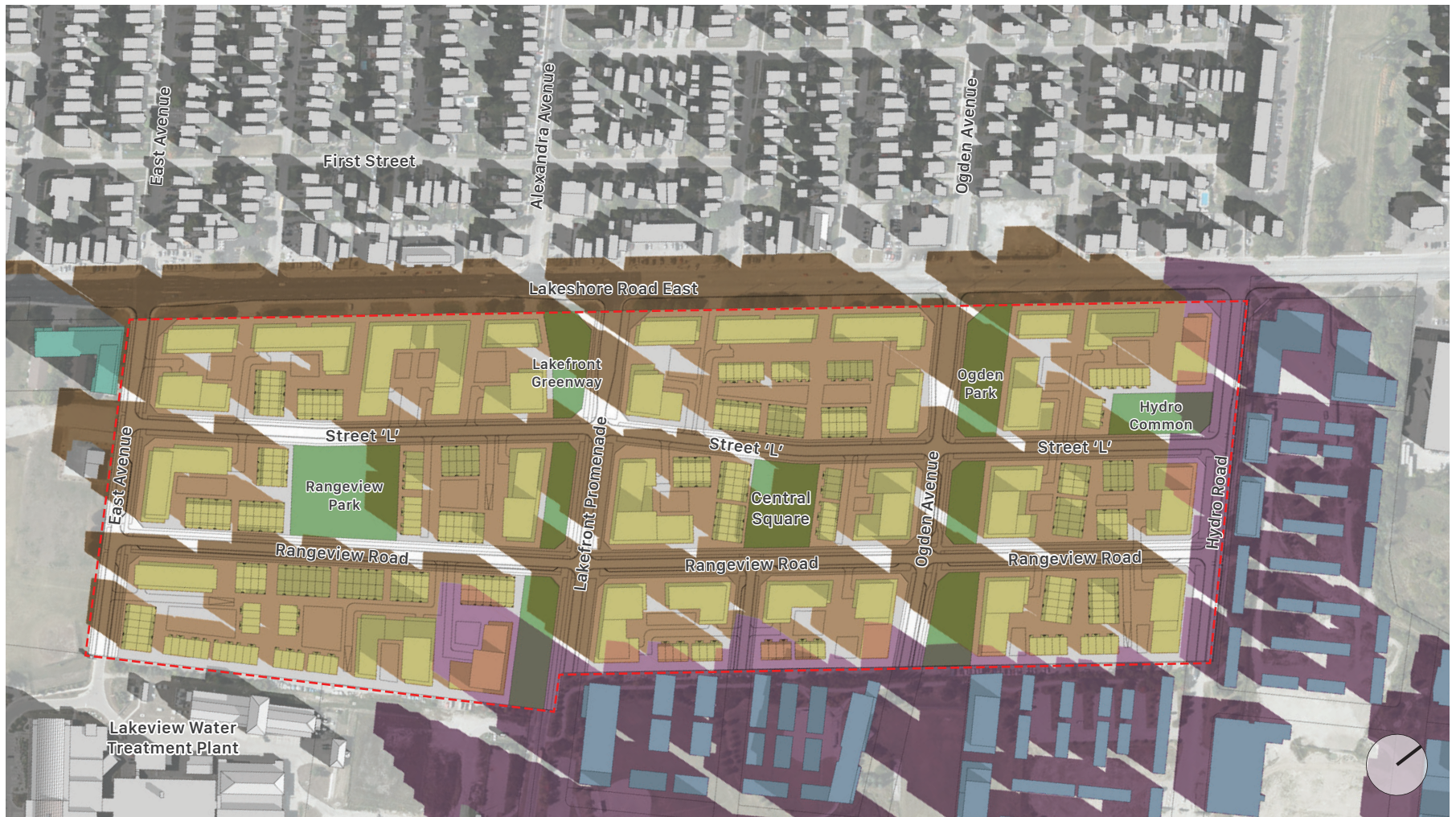
7:07am - June 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
	Proposed Rangeview Estates Built Form		Lakeview Village Development Built Form		Approved Development(s)
	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

7:20am - June 21st



Legend

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8:20am - June 21st



Legend

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9:20am - June 21st



Legend

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10:20am - June 21st



Legend

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11:20am - June 21st



Legend

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	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

12:20pm - June 21st



Legend

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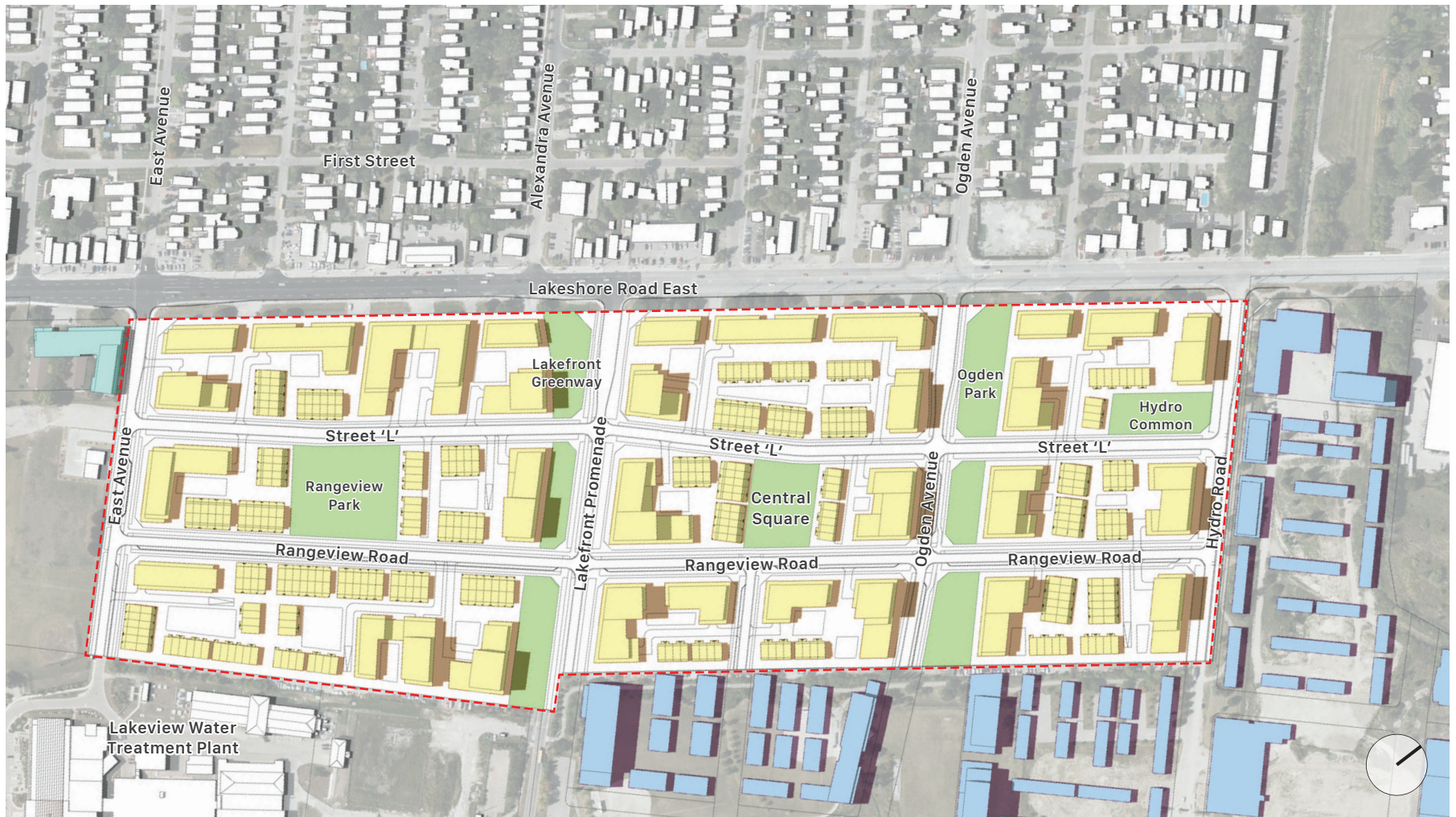
1:20pm - June 21st



Legend

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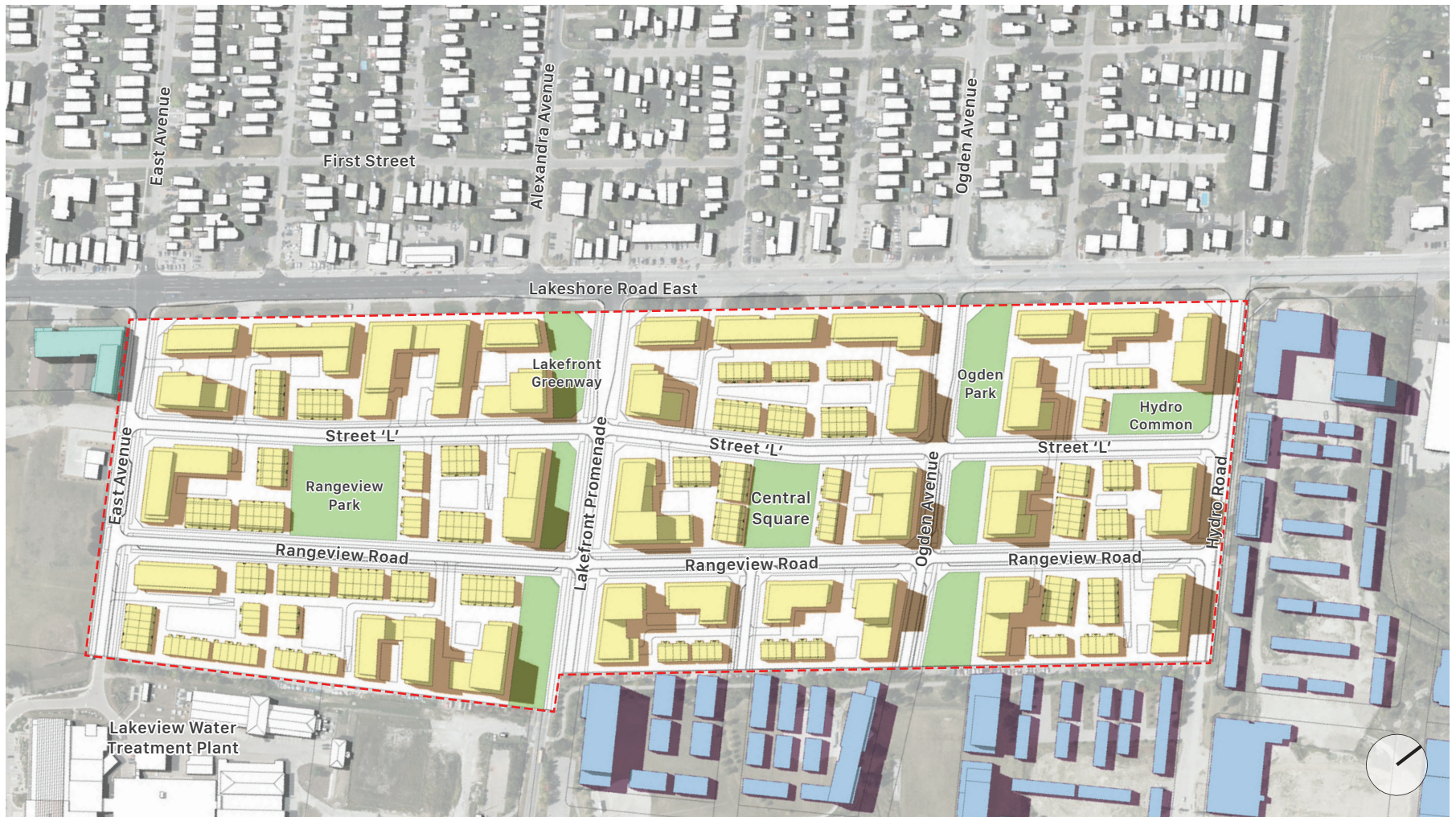
2:20pm - June 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
	Proposed Rangeview Estates Built Form		Lakeview Village Development Built Form		Approved Development(s)
	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

3:20pm - June 21st



Legend

- | | | |
|---|---|--|
| Rangeview Estates | Proposed Rangeview Estates Parkland | Existing Buildings |
| Proposed Rangeview Estates Built Form | Lakeview Village Development Built Form | Approved Development(s) |
| Shadows Cast by Proposed Rangeview Estates Built Form | Shadows Cast by Lakeview Village Development Built Form | Shadows Cast by Existing Buildings and Approved Development(s) |

4:20pm - June 21st



Legend

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5:20pm - June 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
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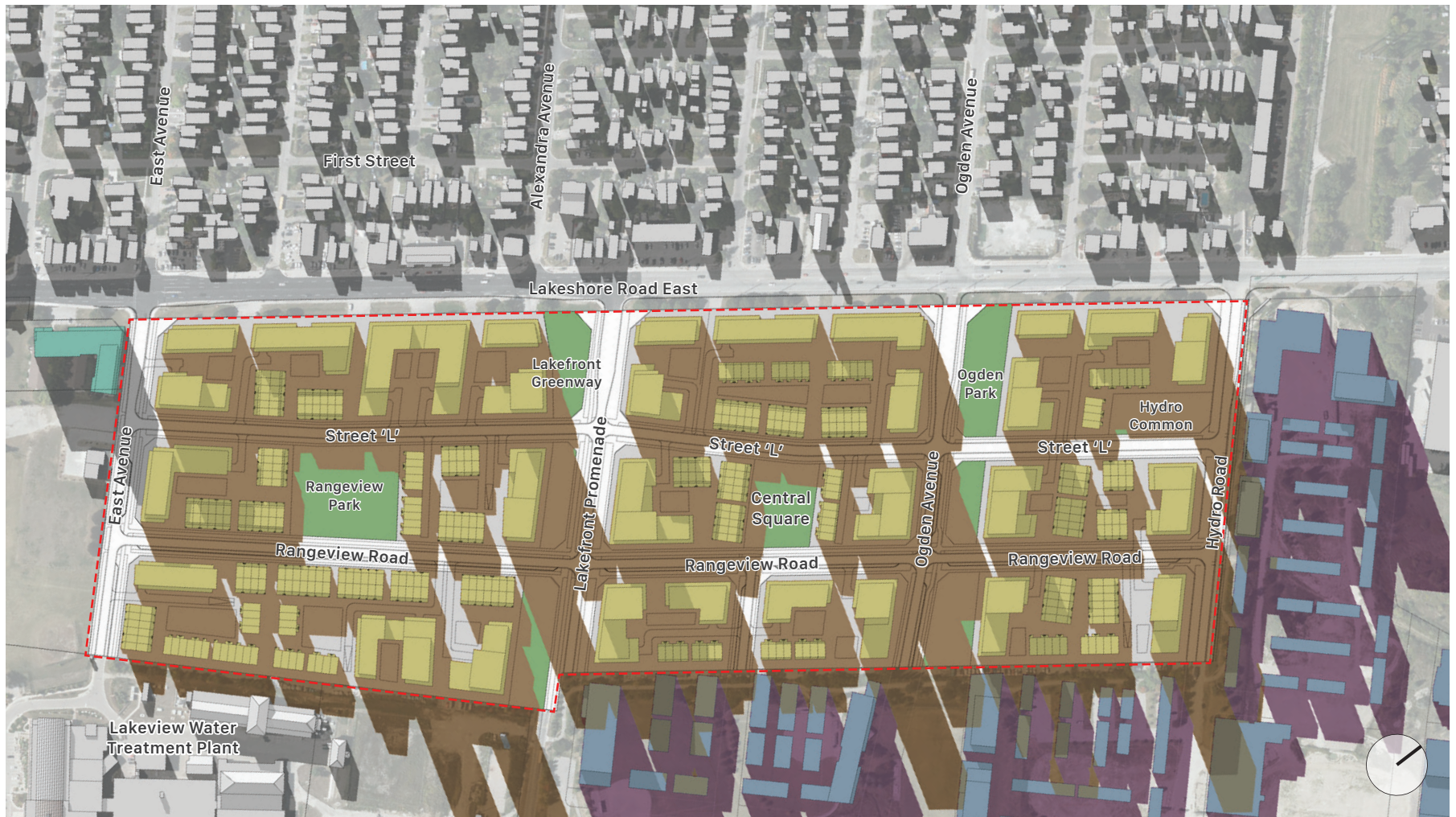
6:20pm - June 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
	Proposed Rangeview Estates Built Form		Lakeview Village Development Built Form		Approved Development(s)
	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

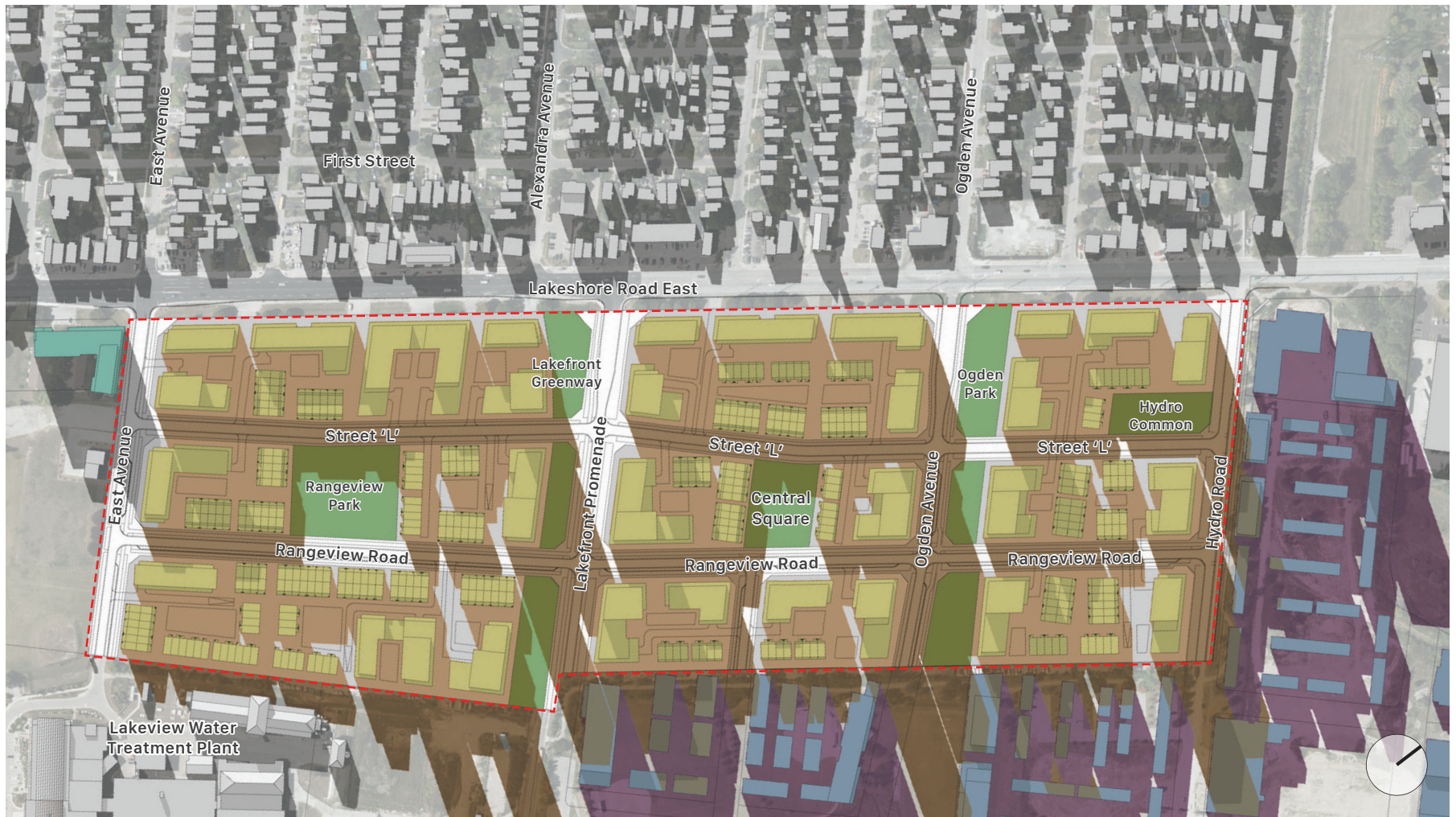
7:20pm - June 21st



Legend

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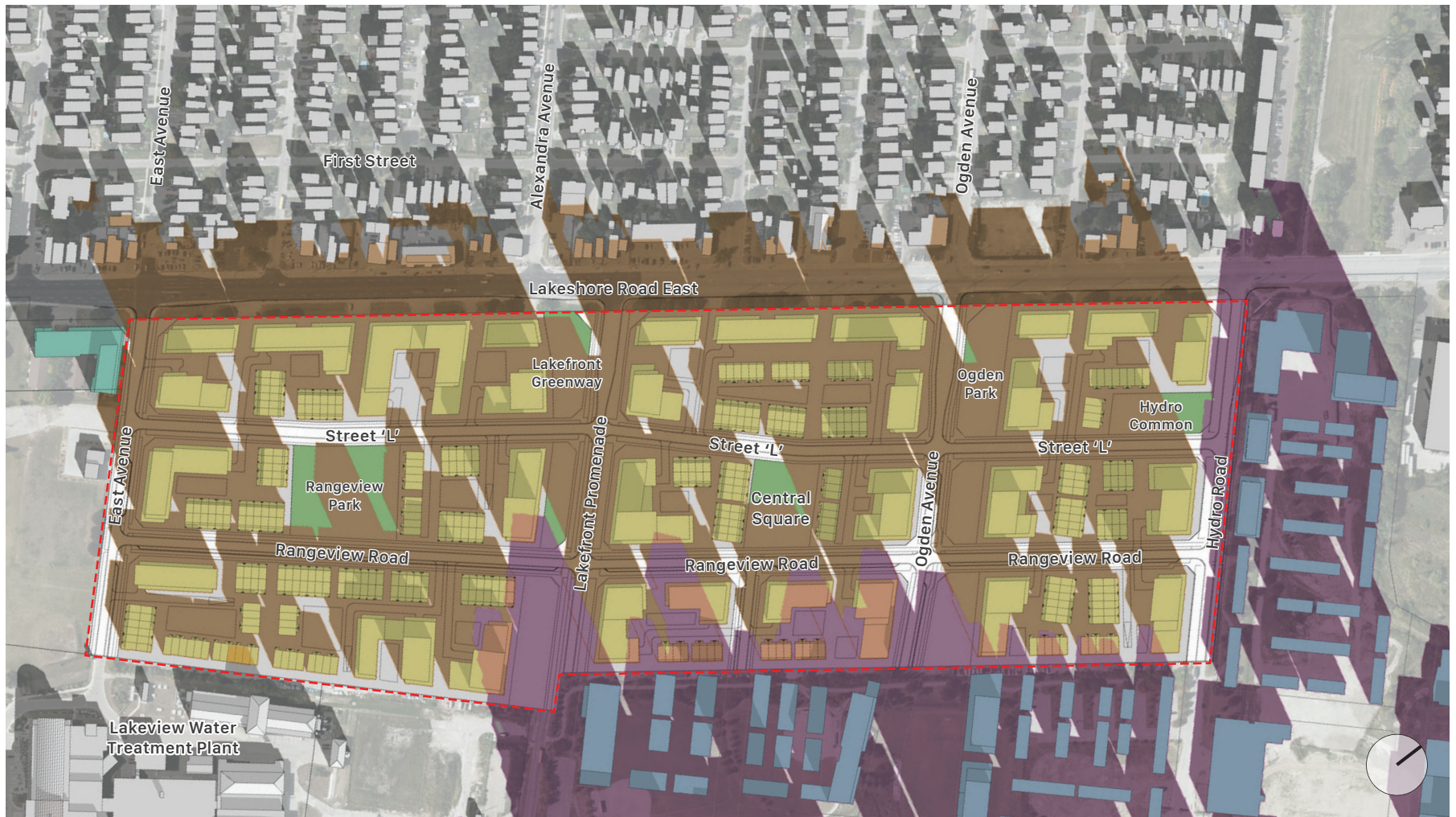
7:33pm - June 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
	Proposed Rangeview Estates Built Form		Lakeview Village Development Built Form		Approved Development(s)
	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

8:35am - September 21st



Legend

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	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

9:12am - September 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
	Proposed Rangeview Estates Built Form		Lakeview Village Development Built Form		Approved Development(s)
	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

10:12am - September 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
	Proposed Rangeview Estates Built Form		Lakeview Village Development Built Form		Approved Development(s)
	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

11:12am - September 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
	Proposed Rangeview Estates Built Form		Lakeview Village Development Built Form		Approved Development(s)
	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

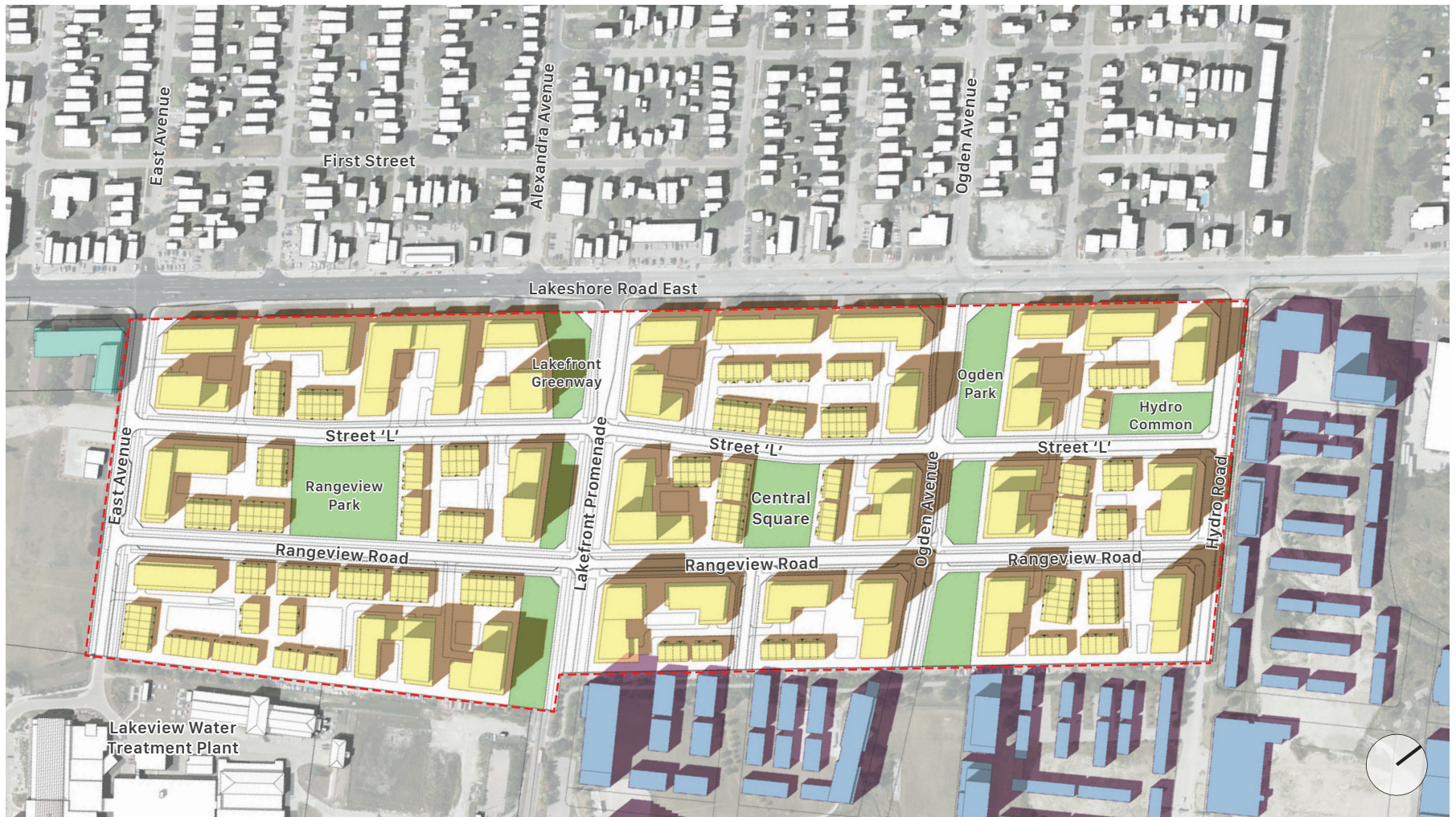
12:12pm - September 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
	Proposed Rangeview Estates Built Form		Lakeview Village Development Built Form		Approved Development(s)
	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

1:12pm - September 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
	Proposed Rangeview Estates Built Form		Lakeview Village Development Built Form		Approved Development(s)
	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

2:12pm - September 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
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	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

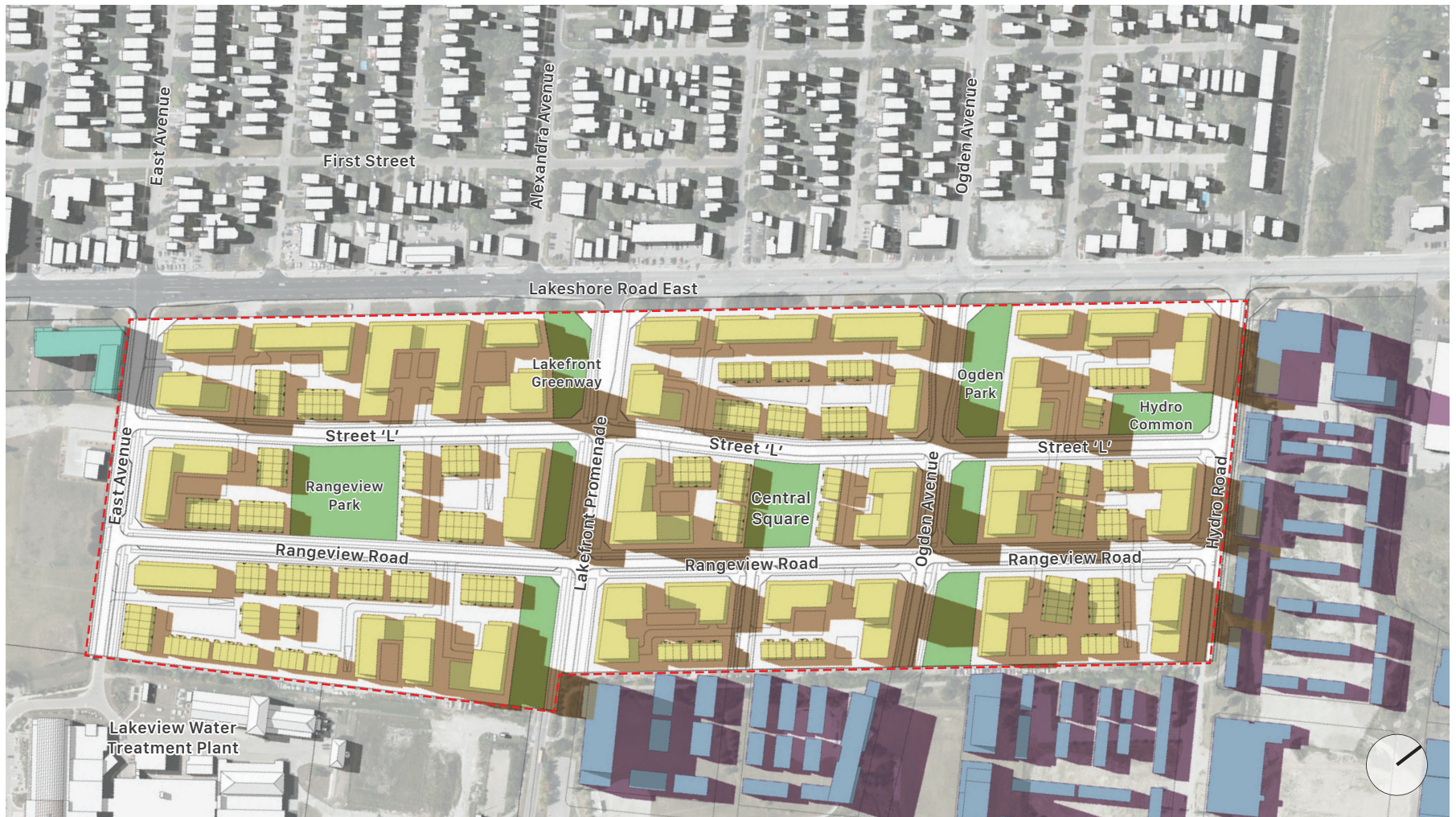
3:12pm - September 21st



Legend

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4:12pm - September 21st



Legend

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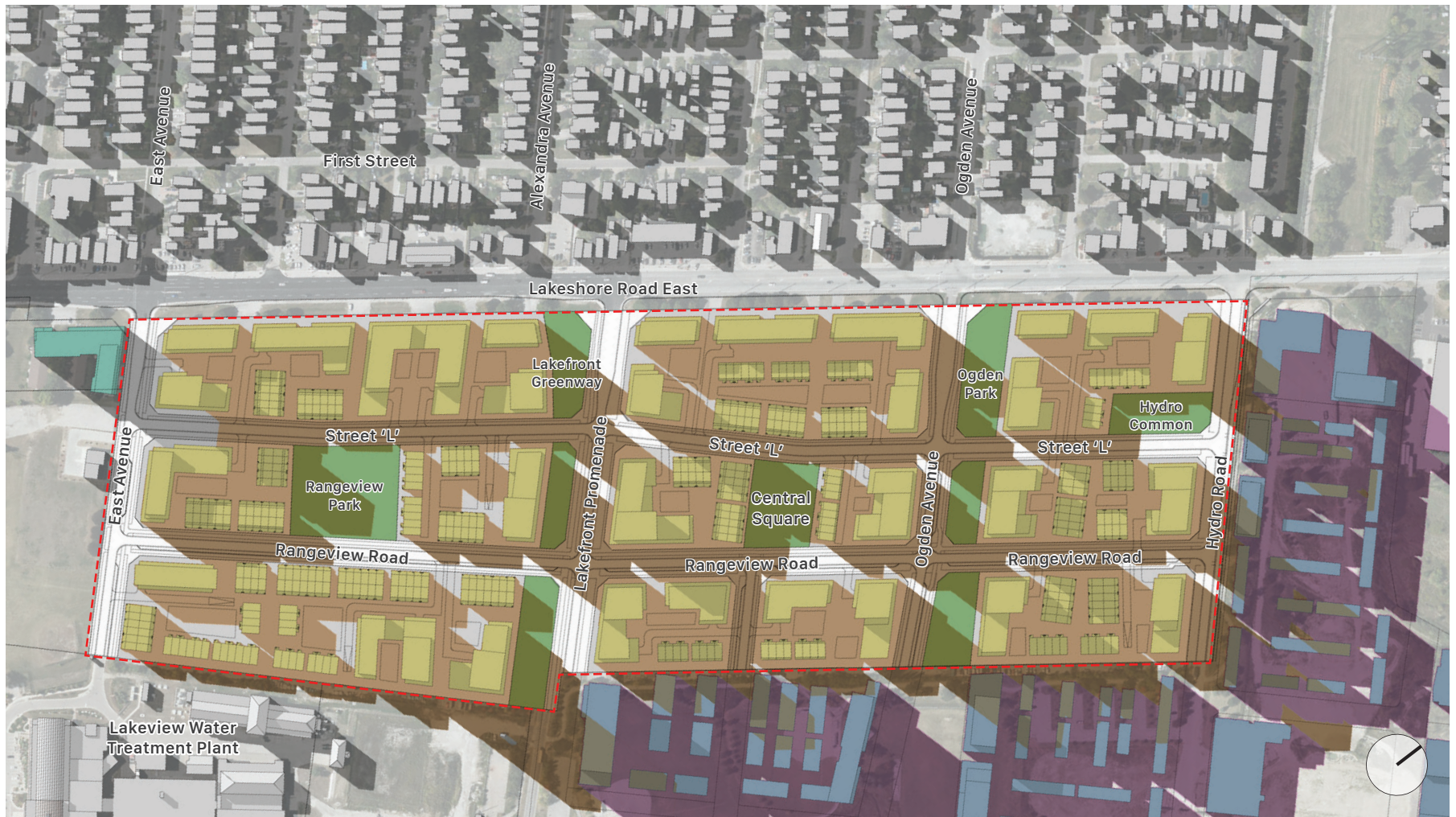
5:12pm - September 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
	Proposed Rangeview Estates Built Form		Lakeview Village Development Built Form		Approved Development(s)
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5:48pm - September 21st



Legend

	Rangeview Estates		Proposed Rangeview Estates Parkland		Existing Buildings
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	Shadows Cast by Proposed Rangeview Estates Built Form		Shadows Cast by Lakeview Village Development Built Form		Shadows Cast by Existing Buildings and Approved Development(s)

9:19am - December 21st



Legend

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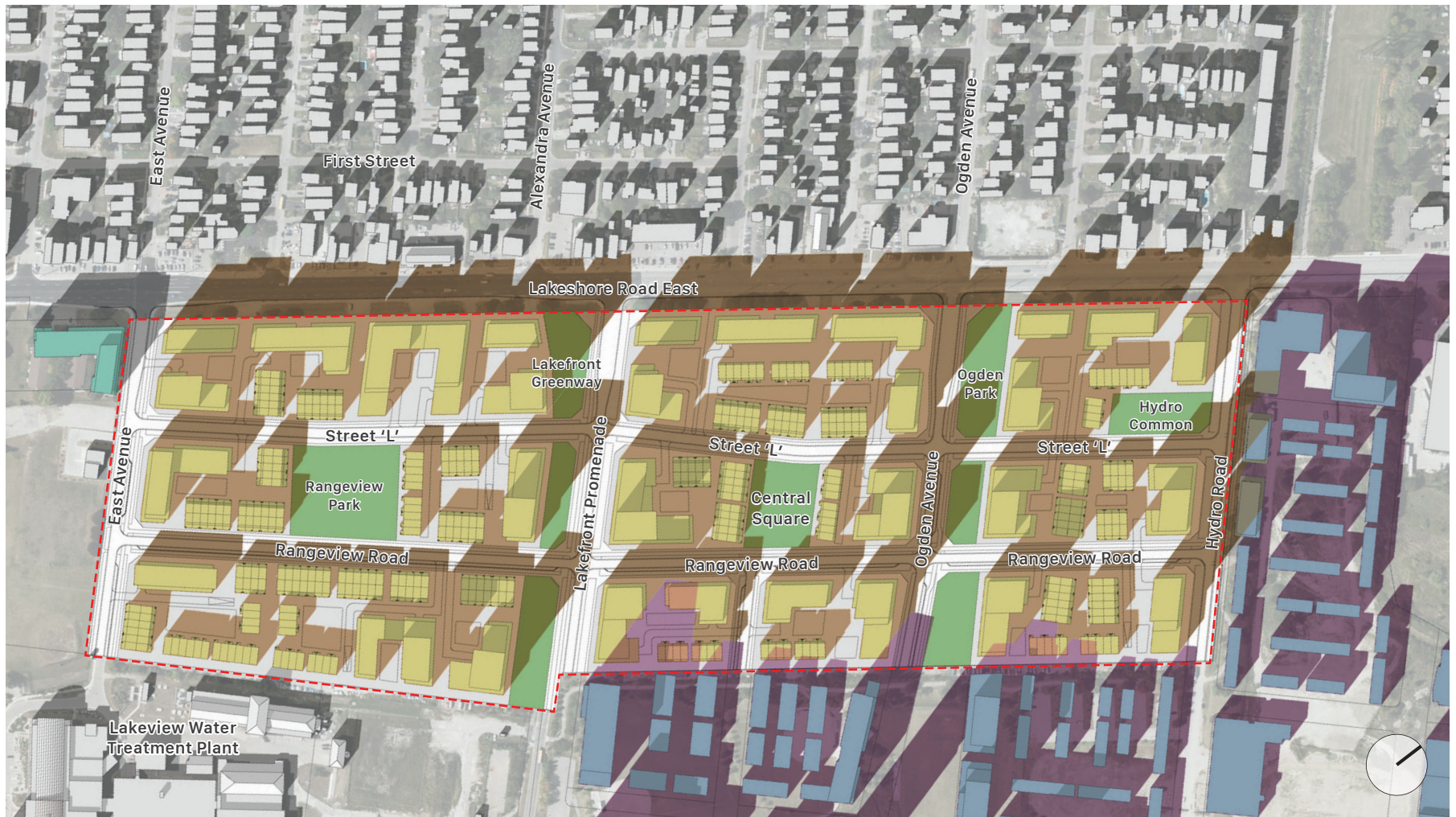
10:17am - December 21st



Legend

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11:17am - December 21st



Legend

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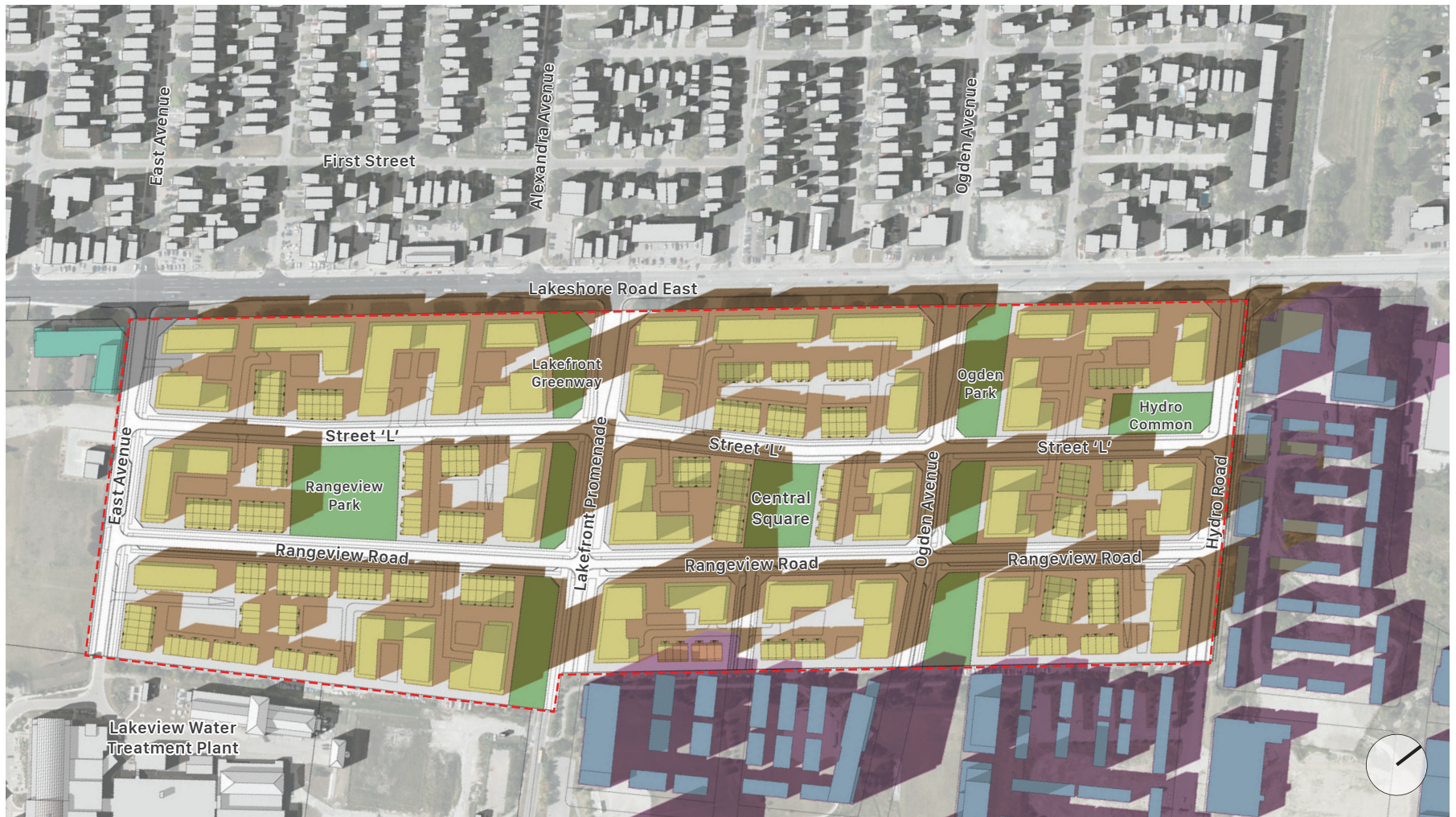
12:17pm - December 21st



Legend

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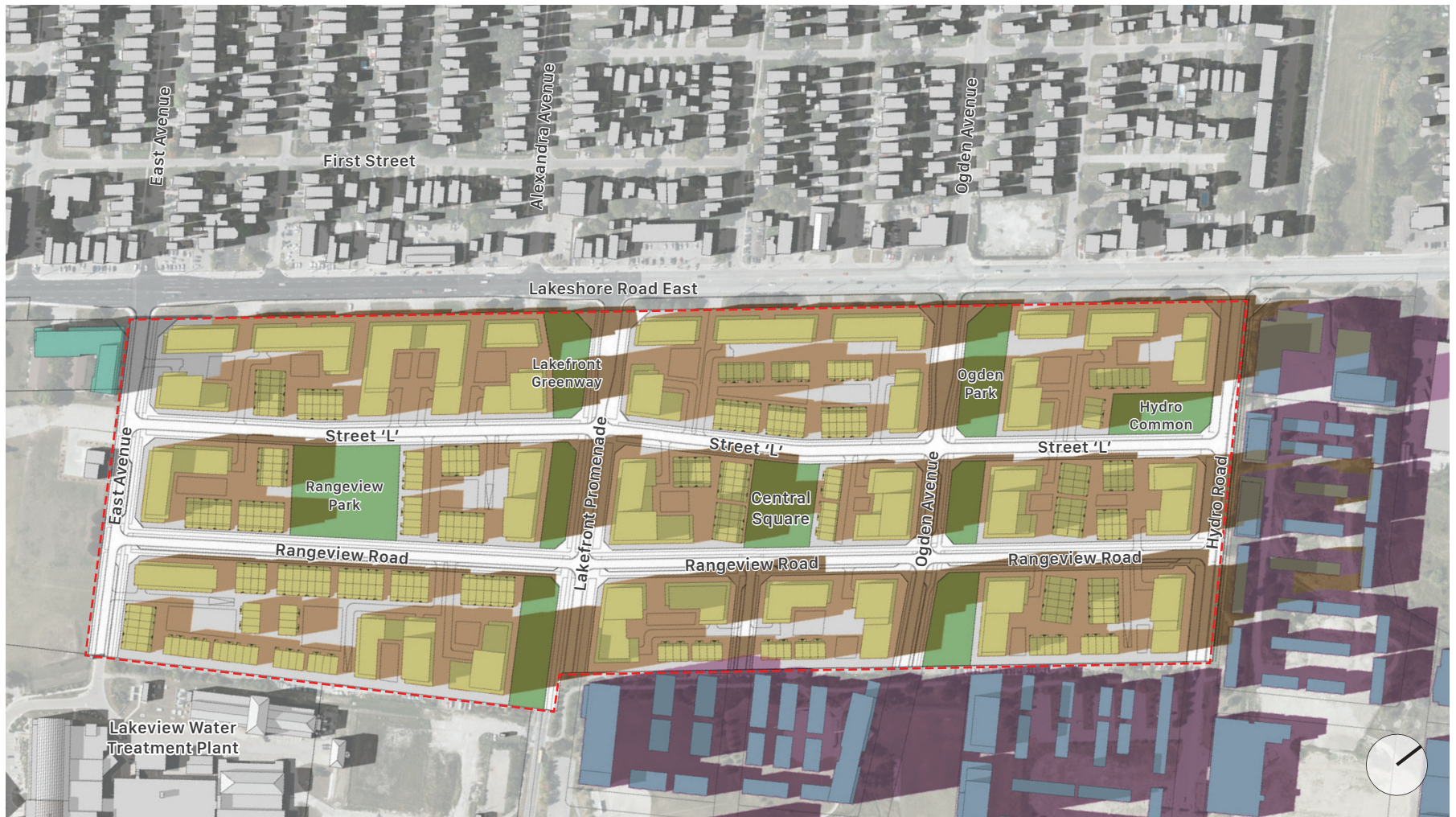
1:17pm - December 21st



Legend

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2:17pm - December 21st



Legend

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