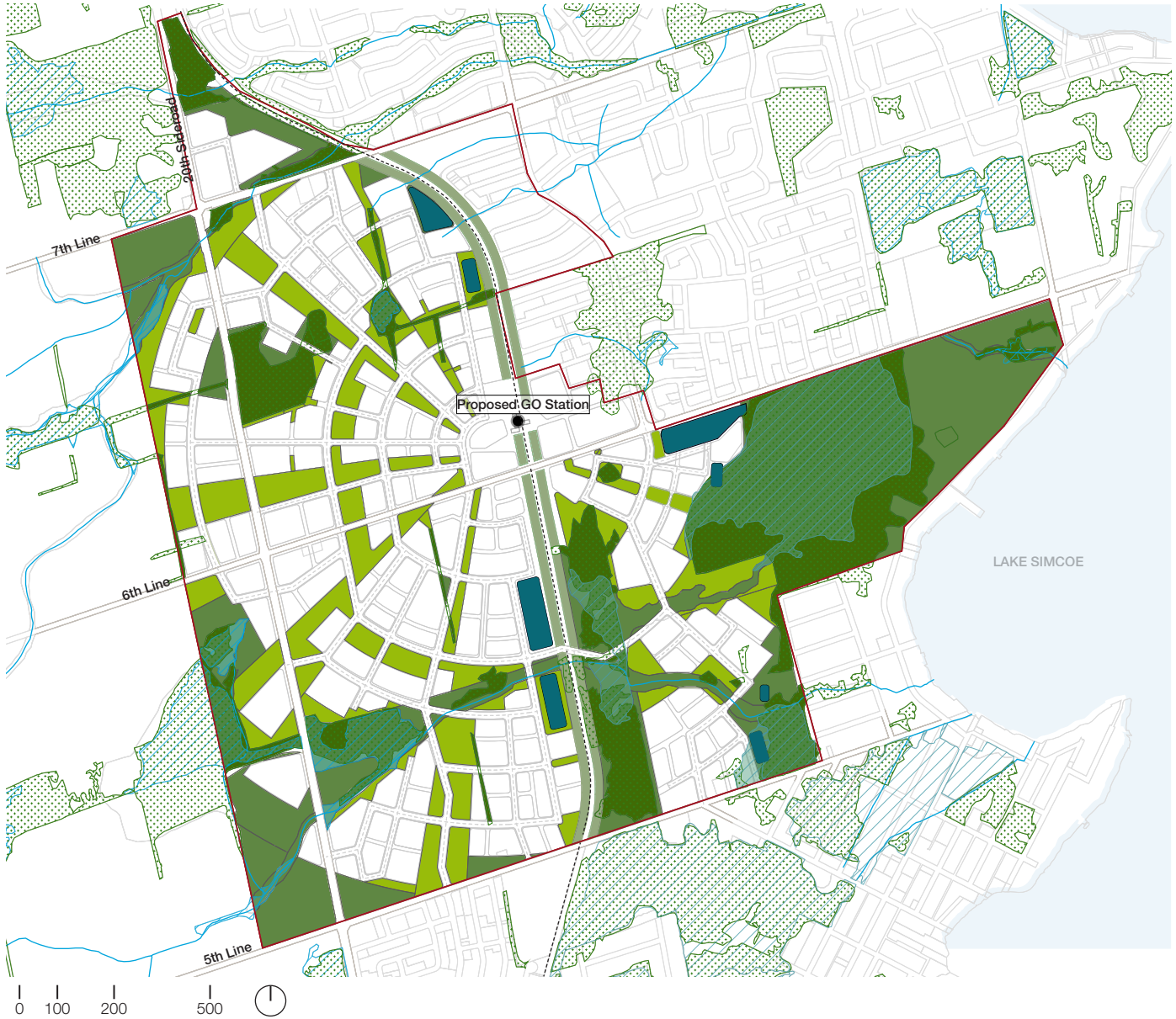
PUBLIC REALM / PARKS AND OPEN SPACES

1. From what you observed today, does the plan provide the right types of parks and open spaces?

2. Does the plan provide parks and open spaces in the right locations?

3. How would you improve the types and/or locations of parks and open spaces?

Public Realm Open Spaces and Natural Features



Buffer Area	162,709 sqm
Key Natural Heritage Features	1,107,662 sqm
Parks and Open Spaces	739,707 sqm
New Woodland	811,634 sqm
	2,887,712 sqm

Red line boundary area: 582.05 ha

of which:

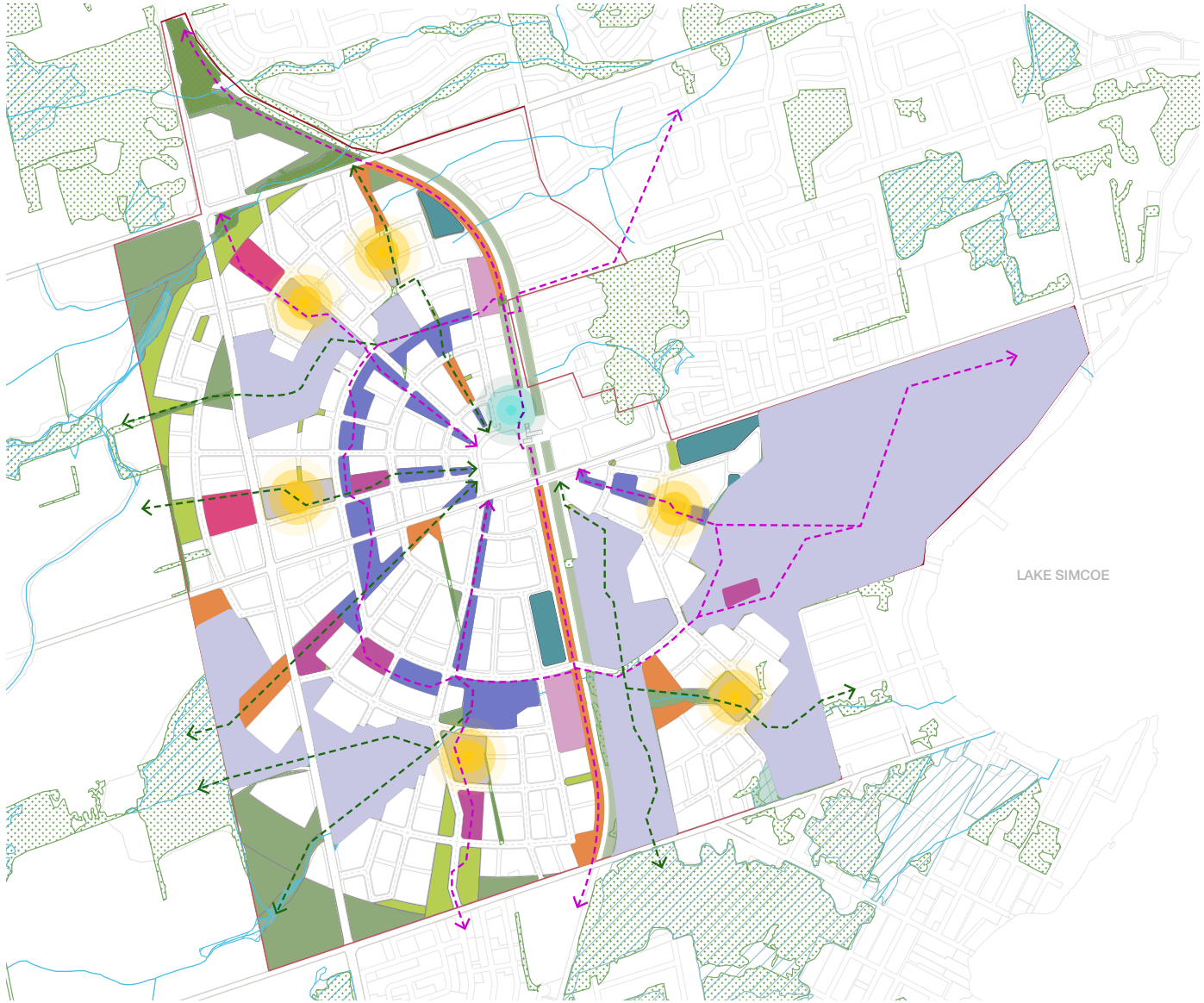
Total green space (existing+proposed): 288.77 ha = 50%

Total developable area (building parcels): 161.18 ha = 28%

Roads & infrastructure (existing+proposed): 132.10 ha = 22%

- Watercourses
- Key Natural Heritage Features
  - Provincially Significant Wetlands
  - Unevaluated Wetlands
  - Woodlands
- Buffer Area
- Public Parks and Open Spaces
- New Woodland
- Balancing Pond

Public Realm Potential Open Space Characterization



Transit Square

Public Squares (to be located within highlighted area)

- Market Square
- Neighbourhood Square
- Neighbourhood Gardens

Active Hub

Multi-use Sports Field/Pitches

Potential Ice Rink From Frozen Balancing Pond

Allotments/Orchards

Wildlife Park/Nature Reserve

Civic City Park/Urban Park

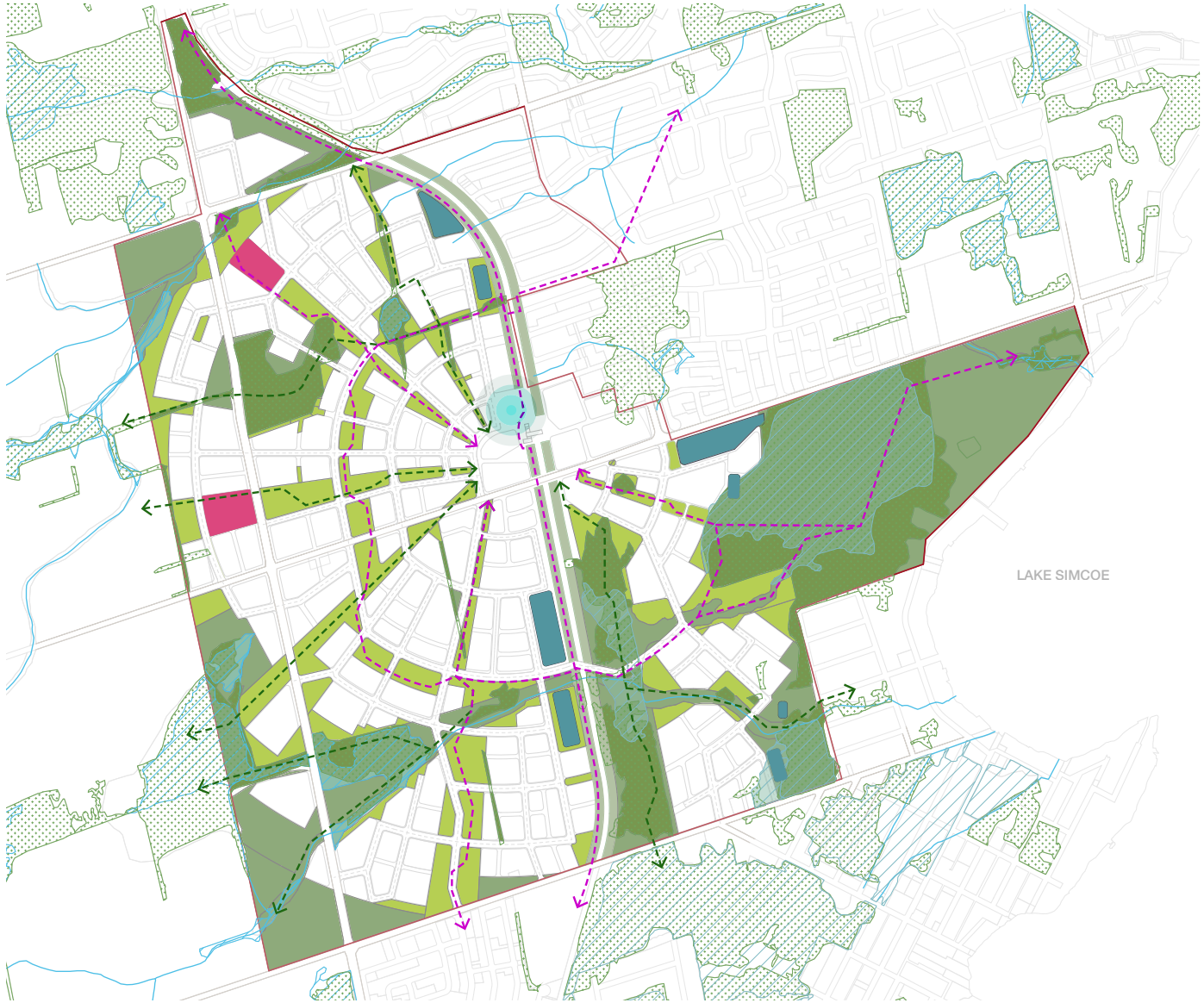
Proposed Cycle Path

Proposed Multi-Use Trail

CYCLE PATH

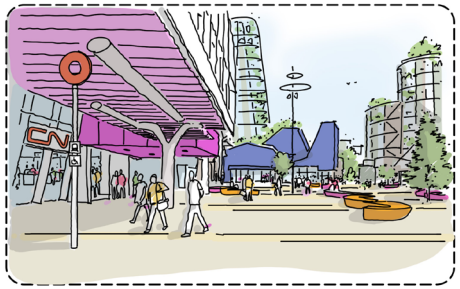
MULTI-USE TRAIL

Public Realm Potential Open Space Characterization



Transit Square

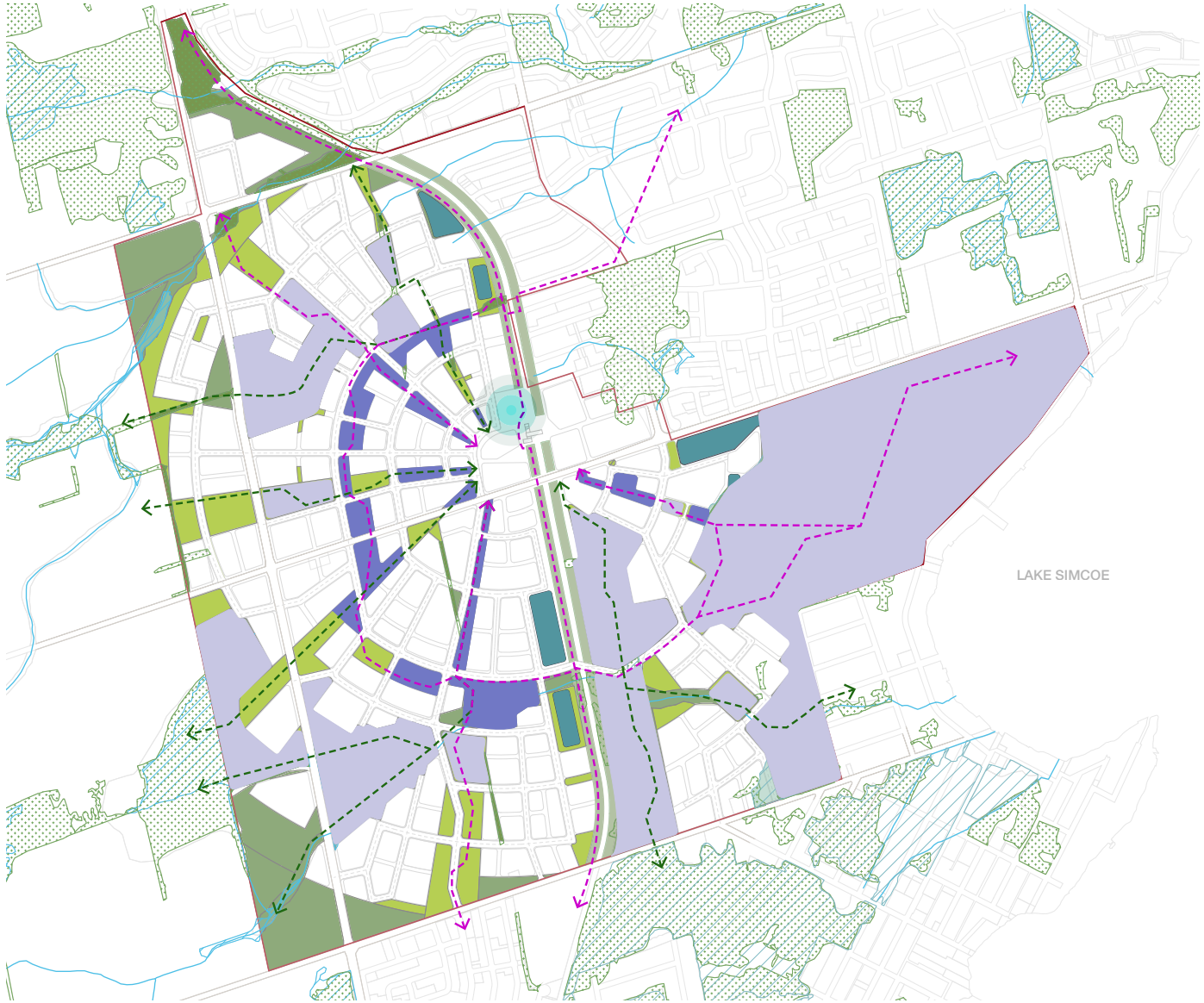
Landmark
Meeting Point
Station
Busy
Vibrant



Active Hub

Landmark
Sports Events
Multi-Functional
Concerts
Large Events
Active

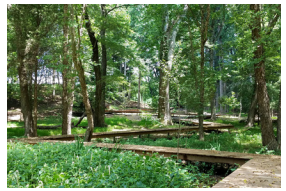
Public Realm Potential Open Space Characterization



Transit Square

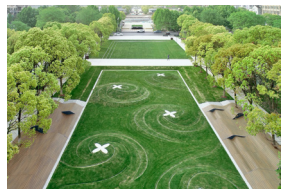
Wildlife Park/Nature Reserve

Rural
Trees
Nature
Calm
Walking Trails

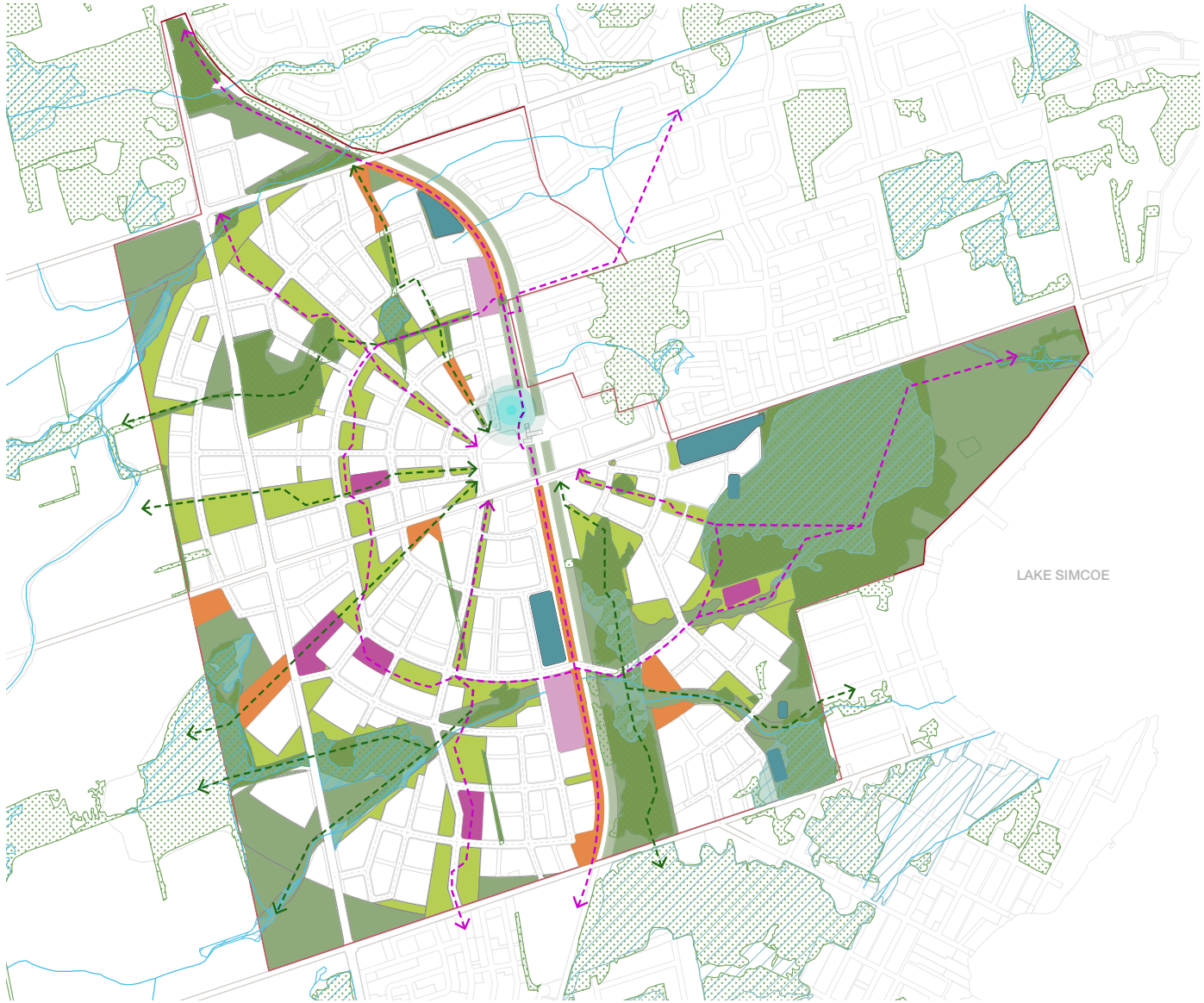


Civic City Park/Urban Park

Varied Activities
Clear Views
Well Lit
Seating
Greenery



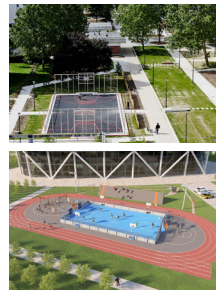
Public Realm Potential Open Space Characterization

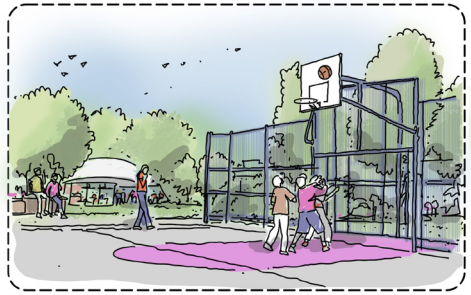


Transit Square

Multi-use Sports Field/Pitches

Active
Parking
Open Space
Amenities





Potential Ice Rink from Frozen Balancing Pond

Sports
Leisure
Seasonal
Festive
Active

Allotments/Orchards

Community
Peaceful
Meeting Point
Urban Farming
Inclusion

Schedules - Public Realm Potential Open Space Characterization

Transit Square

Public Squares (to be located within highlighted area)

Market Square
Food markets
Seasonal markets
Restaurants
Lively
Seating

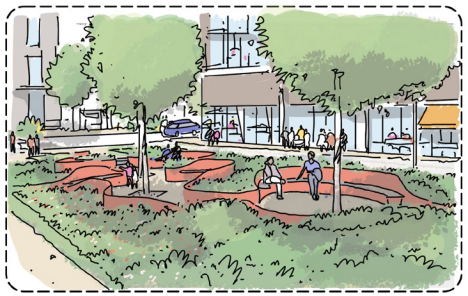


Neighbourhood Square
Events
Performances
Parties
Activities
Fairs



Neighbourhood Garden
Peaceful
Green
Seating
Nature





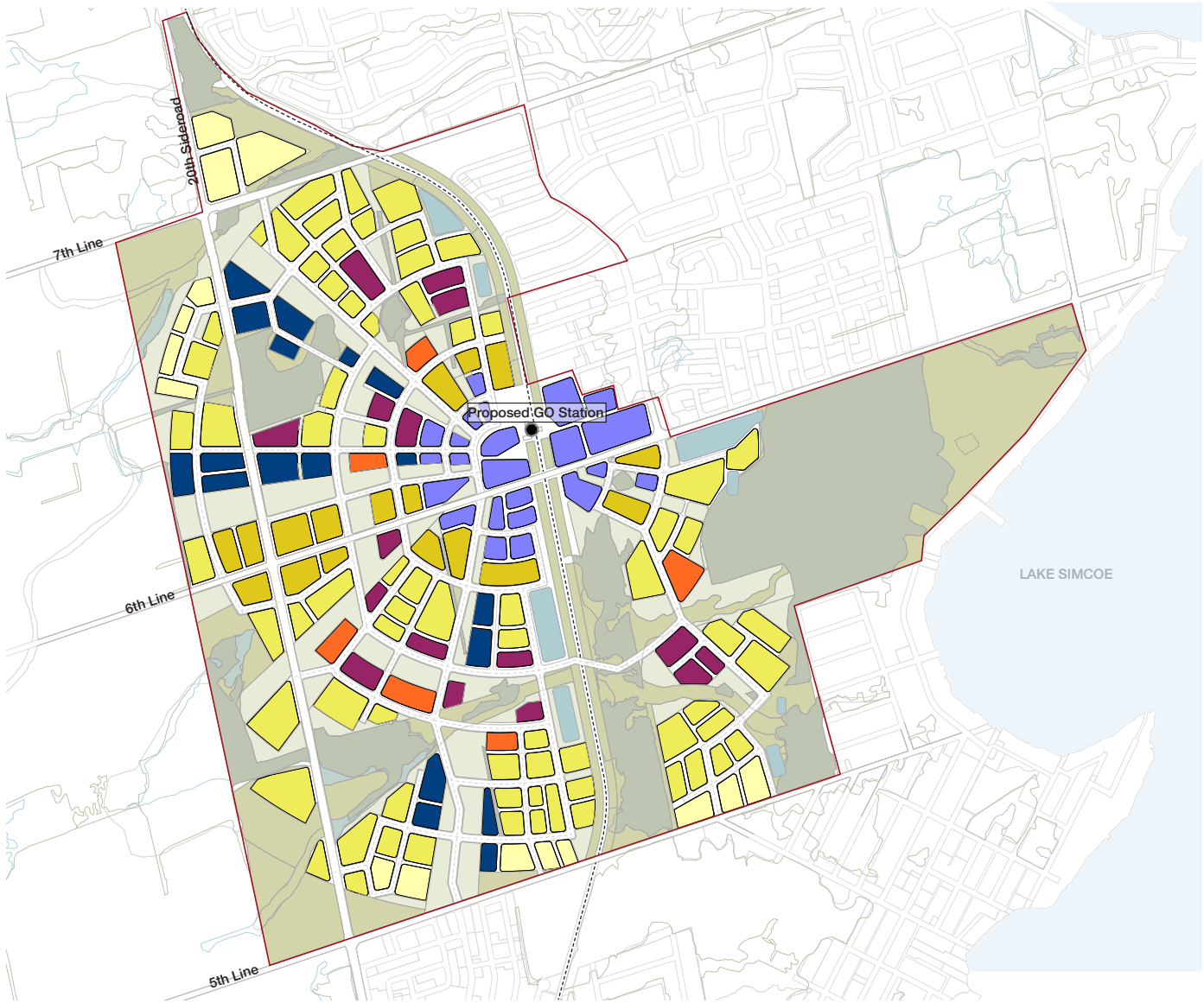
LAND USE

1. Do you agree with the proposed mix of land uses?

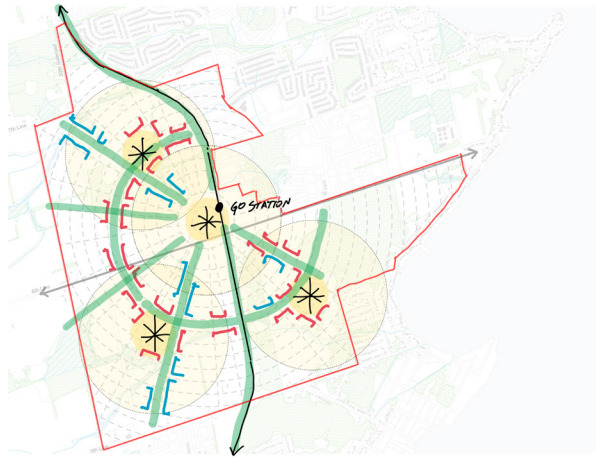
2. What would you change?

3. Where should these land uses be located?

Land Use Designations

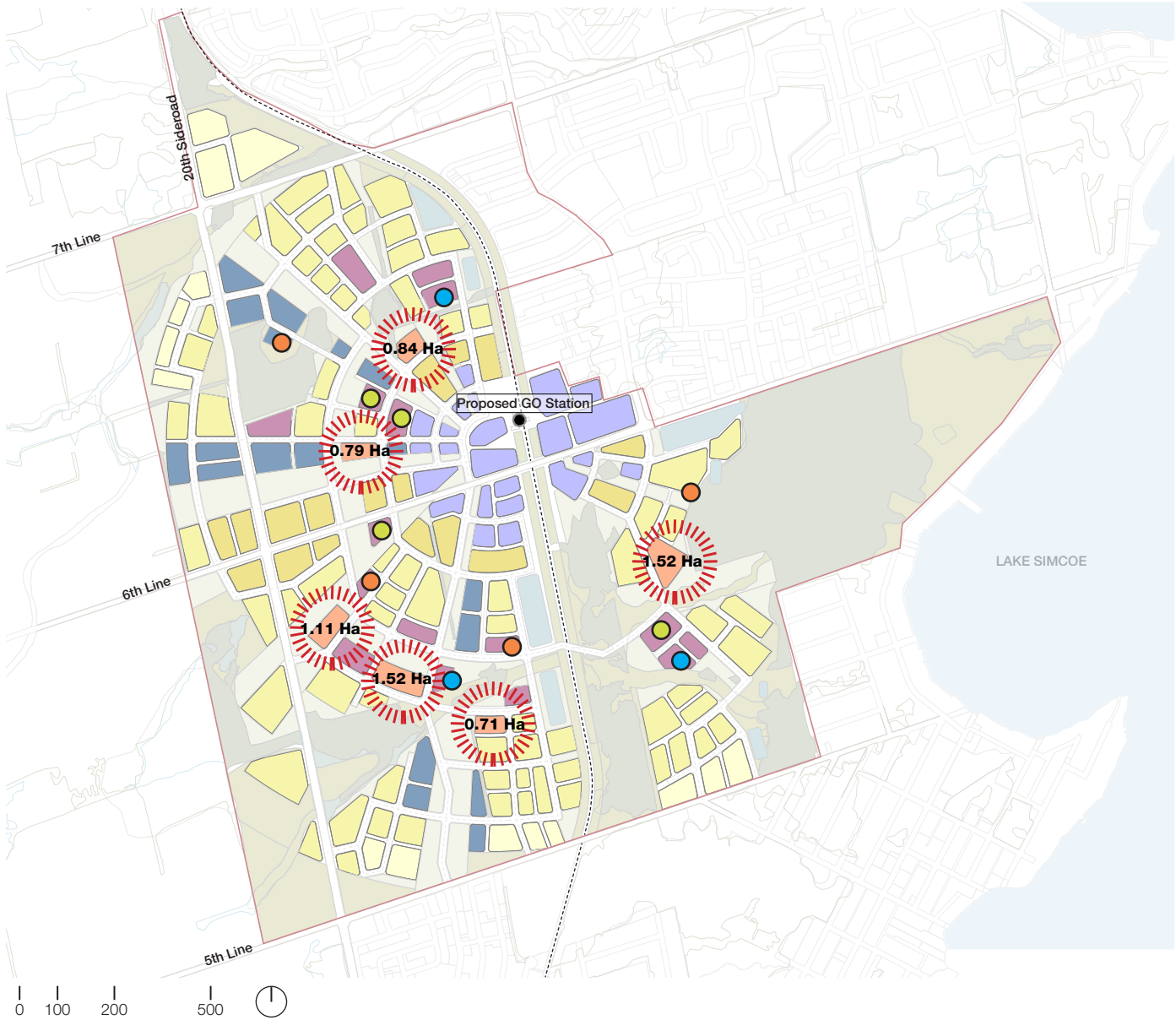


TOTAL NSA (Net Saleable Area): 471.76 ha
of which
Residential = 376.17 ha = 80%
Community = 23.11 ha = 5%
Commercial = 72.48 ha = 15%



- Residential_Low Density
- Residential_Medium Density
- Residential_High Density
- Neighbourhood Commercial Area
- Education (primary/secondary school)
- Mixed Commercial/Employment Area
- Major Transit Station Mixed Use Area

Land Use Community Services and Facilities



Community/Civic spaces definition (schools & others): engagement with school boards and other community services to define requirements

Secondary Plan to spaceproof/safeguard required services

- Potential nursery/day care/health
- Potential cultural/civic facility
- Potential recreational / community service
- Potential school location - size to be checked

BUILDING HEIGHTS / URBAN DESIGN

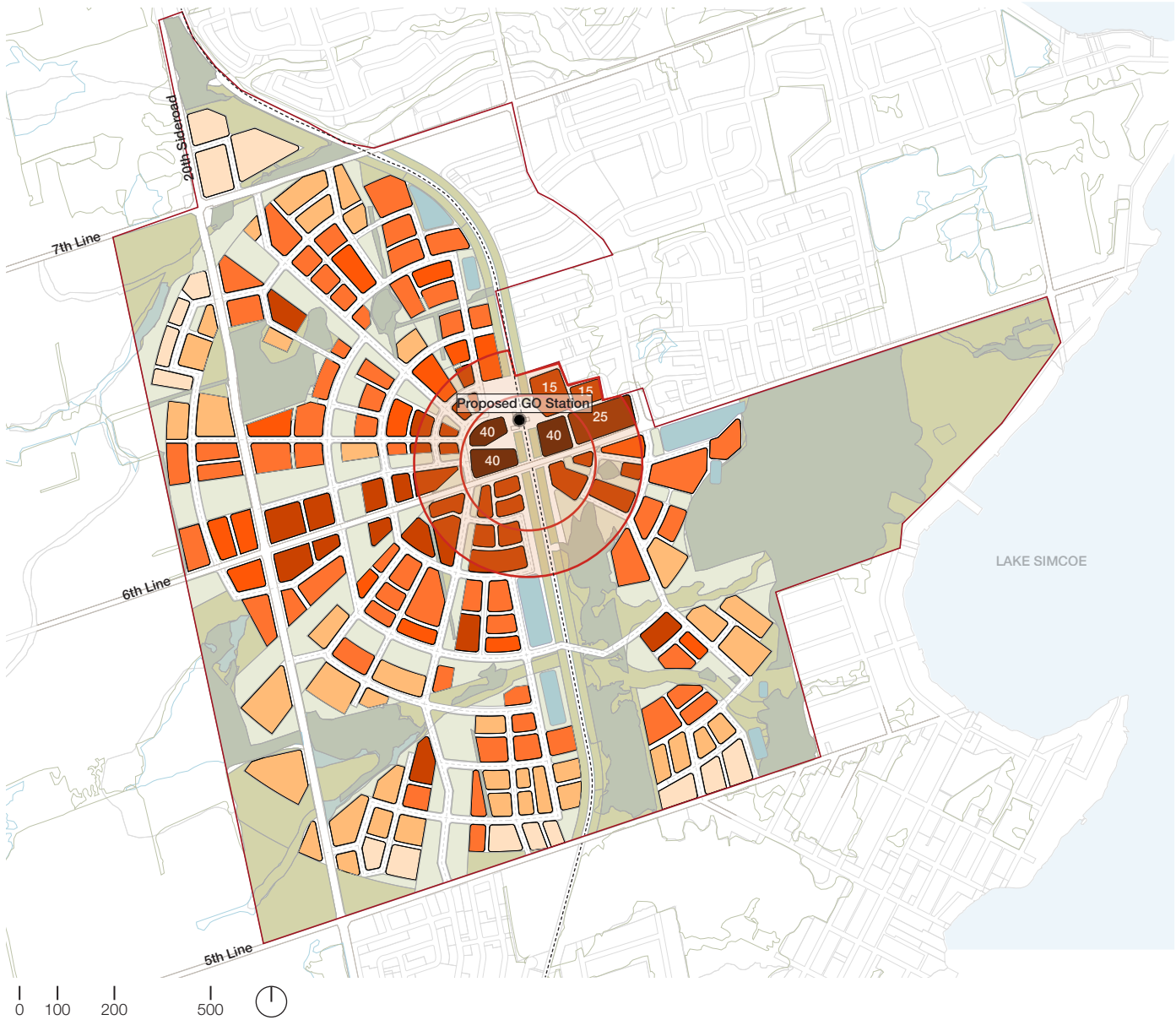
1. Where should building heights be lower/higher?

2. Do the proposed building heights transition well to the surrounding areas? If not, how should these height transitions be implemented?

3. What innovative community design features are important to include within the study area? Examples include views, wayfinding, rail corridor crossings, signage, gateways and entry points.

4. Where would you locate these features?

Building Form Heights



Building Heights - min and max:

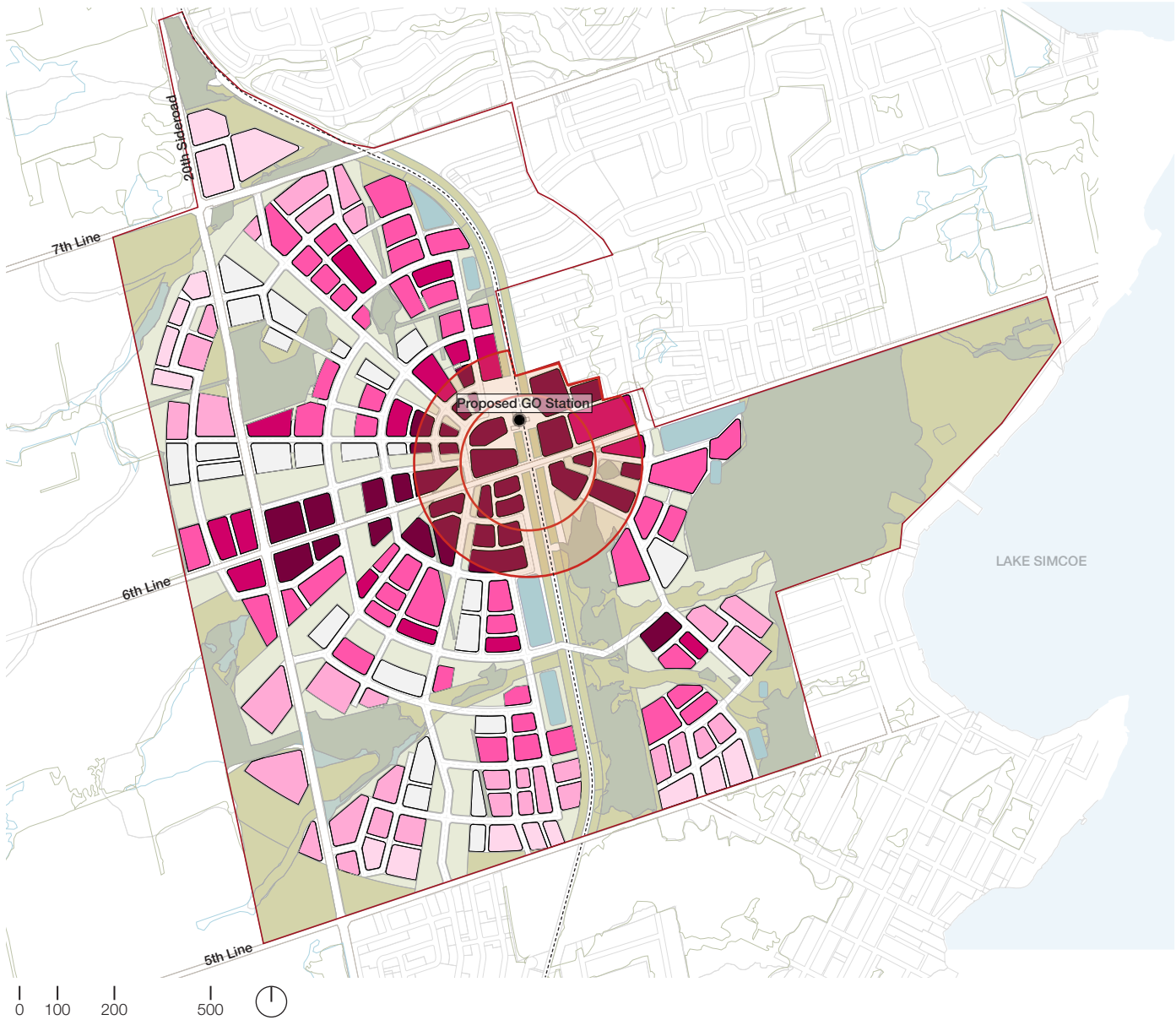
Transit-Oriented Communities (TOC) 1 – 225m radius:
The minimum building height within TOC1 is 6-storeys and the maximum is 40-storeys.

Transit-Oriented Communities (TOC) 2 – between 225m and 425m radius:
The minimum building height in TOC2 is 4-storeys and the maximum is 15-storeys, unless the building fronts onto the 6th Line, in which case it is 25-storeys.

Please note we limited the height of buildings for the plots within the Minister's Zoning Order (MZO) boundary and fronting the 6th line in order to limit Floor Index Space (FSI).

- MZO
- No. of Storeys_ 2 to 3
- No. of Storeys_ 3 to 4
- No. of Storeys_ 4 to 6
- No. of Storeys_ 6 to 10
- No. of Storeys_ 10 to 15
- No. of Storeys_ 15 to 25
- No. of Storeys_ 25 to 40

Building Form Residential Densities



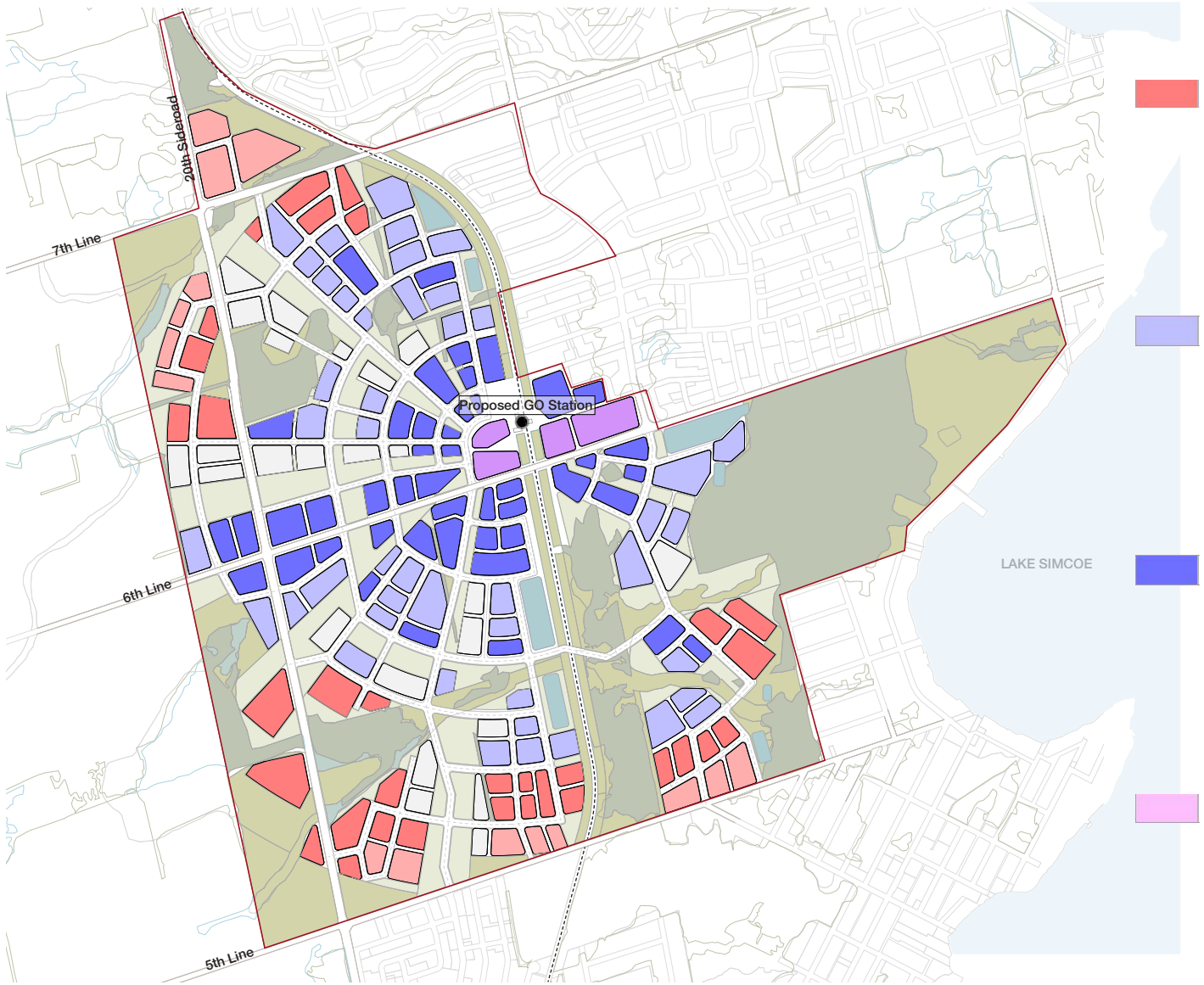
Building Densities - min:

Transit-Oriented Communities (TOC) 1 – 225m radius:
Minimum density of 200 dwelling units per hectare.

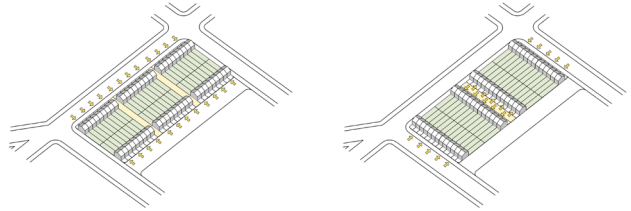
Transit-Oriented Communities (TOC) 1 – between 225m and 425m radius:
Minimum density of 150 dwelling units per hectare.

- MZO
- 50 to 100 dwellings/hectare
- 100 to 150 dwellings/hectare
- 150 to 300 dwellings/hectare
- 300 to 500 dwellings/hectare
- 500 to 900 dwellings/hectare

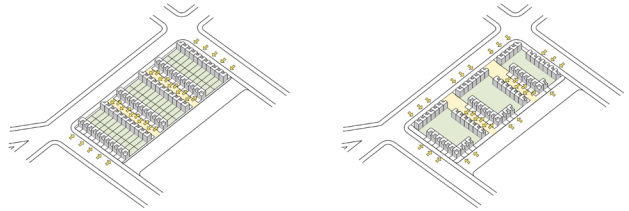
Building Form Typologies



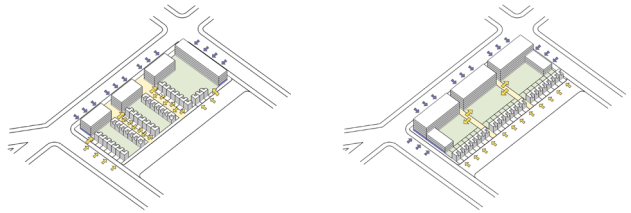
Low density - terraced houses



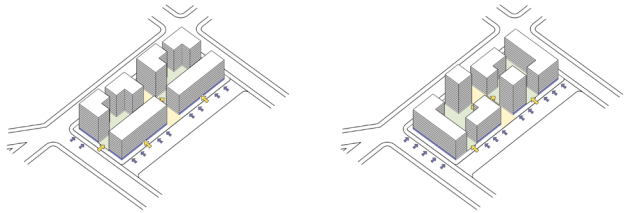
Medium density - townhouses



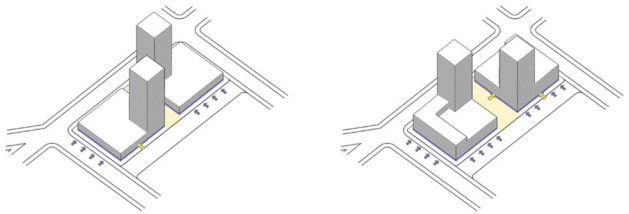
Medium density - mixed block (flats + townhouses)



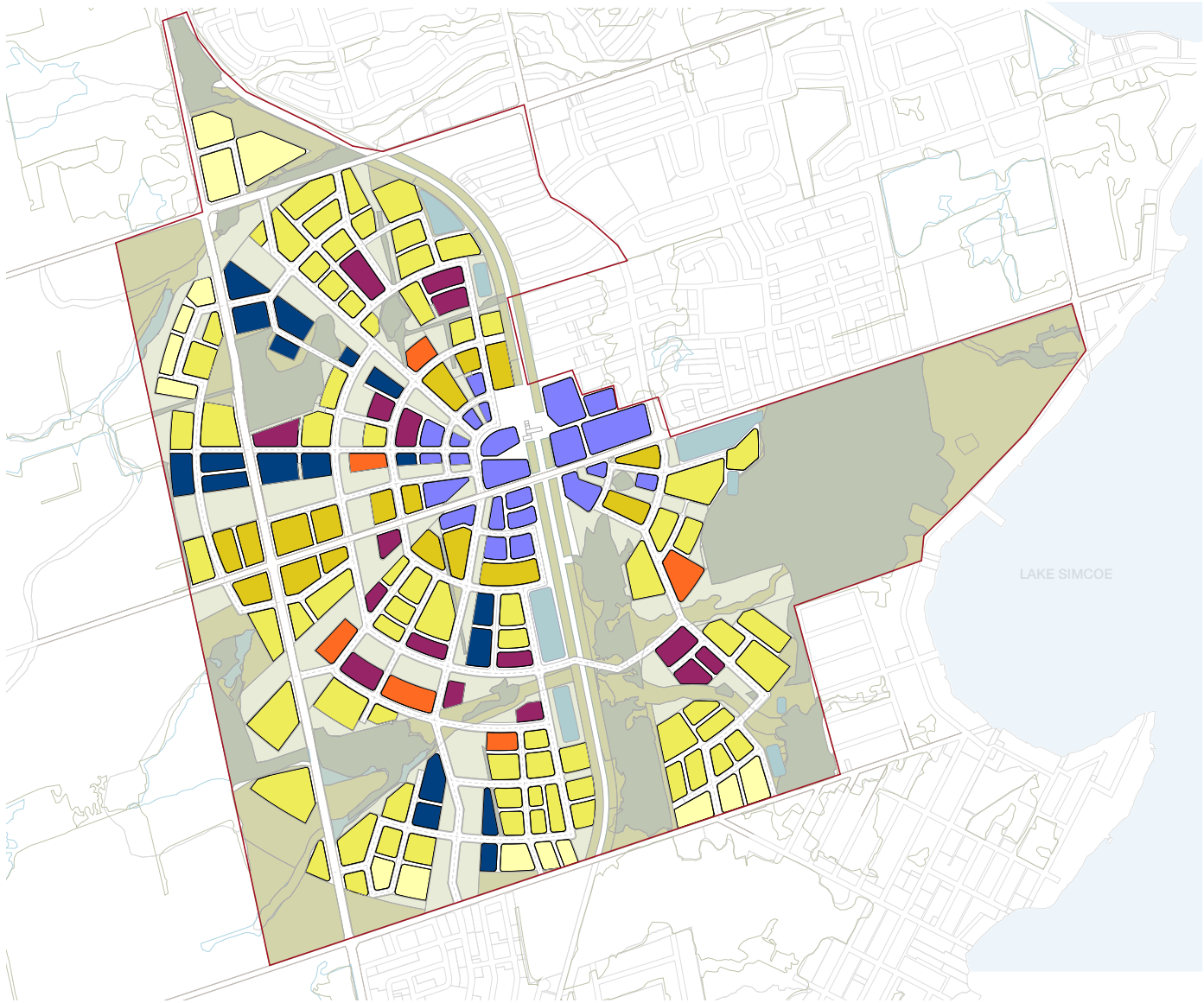
High density - perimeter block



High density - tower on podium



Employment typologies

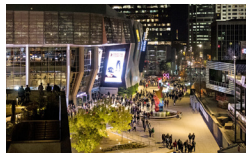


RECREATION AND TOURISM

Stadium/ Sports Arena
Arts/ Culture: Performing arts, cultural centre, art gallery, exhibition/ convention centre.
Lakefront Drawcards/ Activities: Cafe/ food vans, bike hire, seasonal attractions
Festivals/ Events

Est. Employment Density **15/sqm**

Key Locations




ENTERPRISE/ LIGHT INDUSTRIAL

Larger footprint light industrial/ commercial: Green manufacturing, local distribution, warehousing, small scale manufacturing/ production.

Est. Employment Density **47/sqm**

Site Specific


INSTITUTIONAL/ EDUCATION

Neighbourhood/ Urban Core: Primary school, childcare, community centre, library, religious facilities, healthcare (inc. flexi/ dual- use spaces).

Urban Core: (Above) plus high school (urban), higher education/ training. aged care, medical services.

Est. Employment Density **60/sqm**

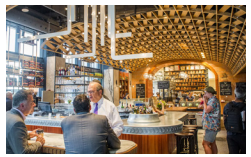
Key Locations


URBAN NEIGHBOURHOODS

Daily needs within walk/ cycle of homes: Retail, commercial ie. grocery, cafe, restaurants, bakery, services (drycleaner, shoe repairs, hairdresser, vet, mechanic), office, co-working, bike store, clothing store, gift shop, medical (dentist/ doctor/ physio).

Est. Employment Density **18/sqm**

Main Streets/High Streets, Village Centres

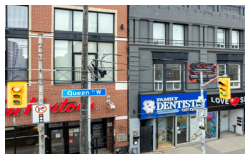



URBAN CORE “EDGE”

Retail, commercial: Cafe, restaurants, gyms and spa, convenience retail, small businesses (accountant, real estate), office, co-working, services and medical.

Est. Employment Density **40/sqm**

Ground Floor Activation on Key Streets

URBAN CORE

Office/ retail: larger floorplate employers.

Entertainment: Cinema, gaming.

Services: City service providers.

Est. Employment Density **36/sqm**

Mixed/multi-use


CONCEPTUAL ROAD NETWORK & MOBILITY

1. Does the plan provide sufficient connectivity to areas outside the study area for all transportation modes? Please suggest improvements to the network for the various transportation modes.

2. How would you make streets more walkable and inviting for pedestrians and cyclists?

3. How should the Orbit encourage residents to make trips without use of a personal vehicle?

4. If you lived in the Orbit, what mode—transit, walking, cycling, driving, other—would you like to use for local trips? (If other, please specify)

Mobility Mode Share

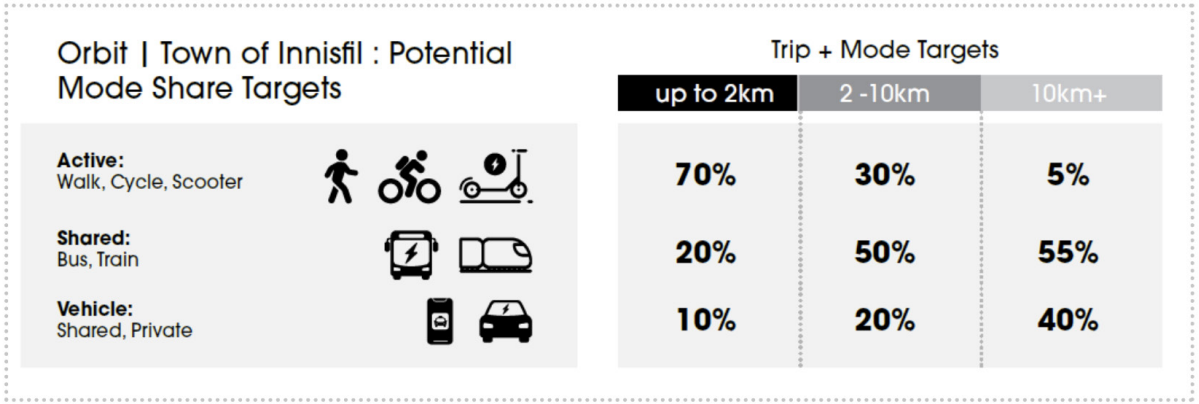
ORBIT should aim for the following split of mode shares during the weekday AM peak:

- Auto (driven or passenger): 33%
- Transit: 20%
- Micro-mobility: 20%
- Walking and other: 25%

The majority of households will still own a private vehicle, but as Table 1 shows, not more than one:

Table 1: Household Vehicle Ownership: Orbit Targets				
0	1	2	3	4+
1%	60%	25%	10%	4%

Mode share targets, broken out by trip length, are as follows:



This recommendation rests on our view of what is feasible for a new, compact, rail-oriented community that aspires to be a 15-minute city in Central Ontario. It relies upon good planning principles and current trends in how Ontarians work, live, and travel.

Mobility Road Network

MAJOR COLLECTOR ROAD


MINOR COLLECTOR ROAD



Transit Priority

LOCAL STREET

Urban

Neighbourhood

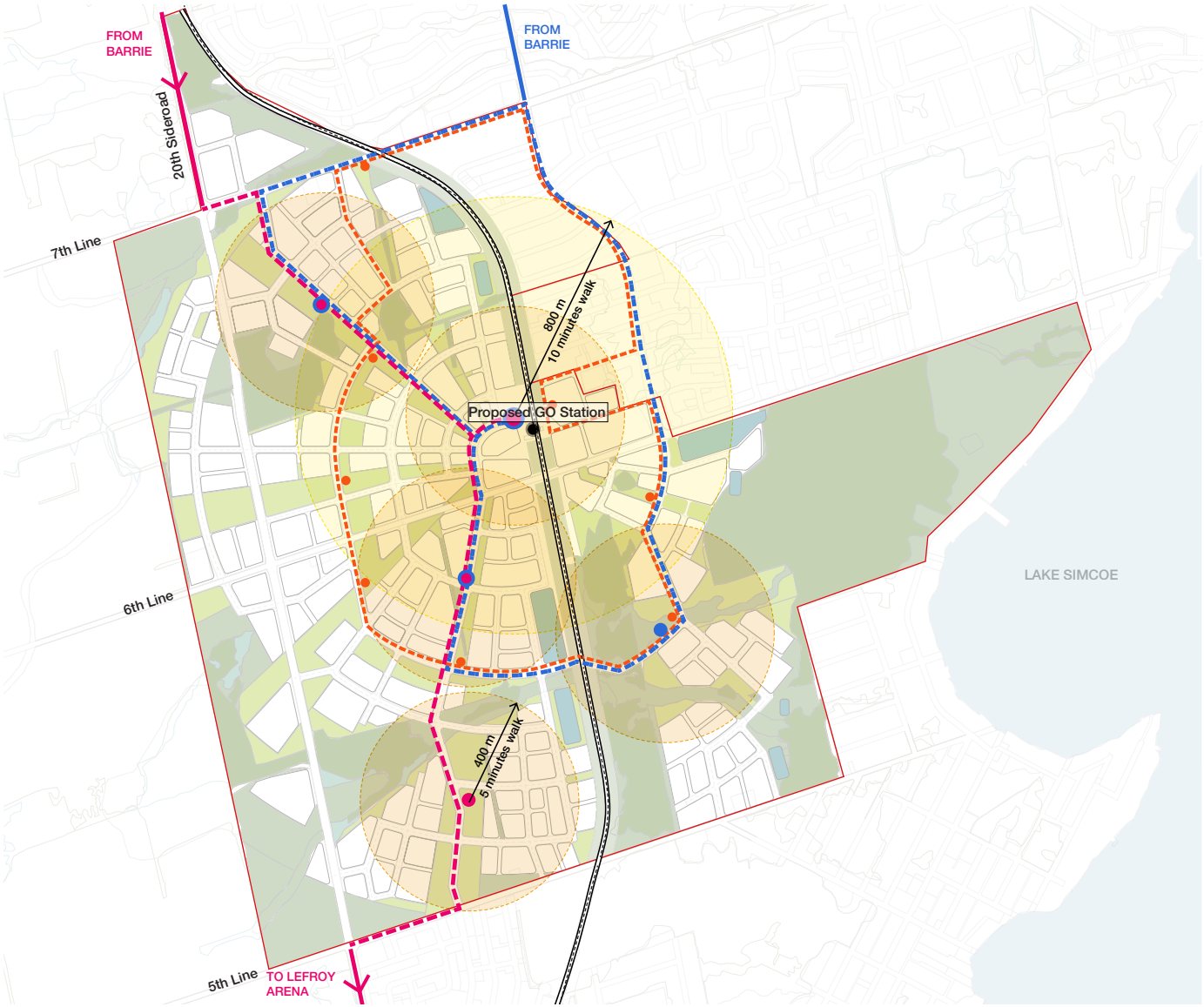
Existing

- Major Collector
- Minor Collector

Proposed

- Minor collector Transit Priority
- Minor collector
- Minor collector Transit & Active Modes
- Local Street Urban
- Local Street Neighbourhood

Mobility Public Transport Network



GO Train

Orbit Loop

Bus (LINX/TMP)

Potential Public Bus

LINX_Route B

TMP_Innisfil Route C

Proposed PT Routes

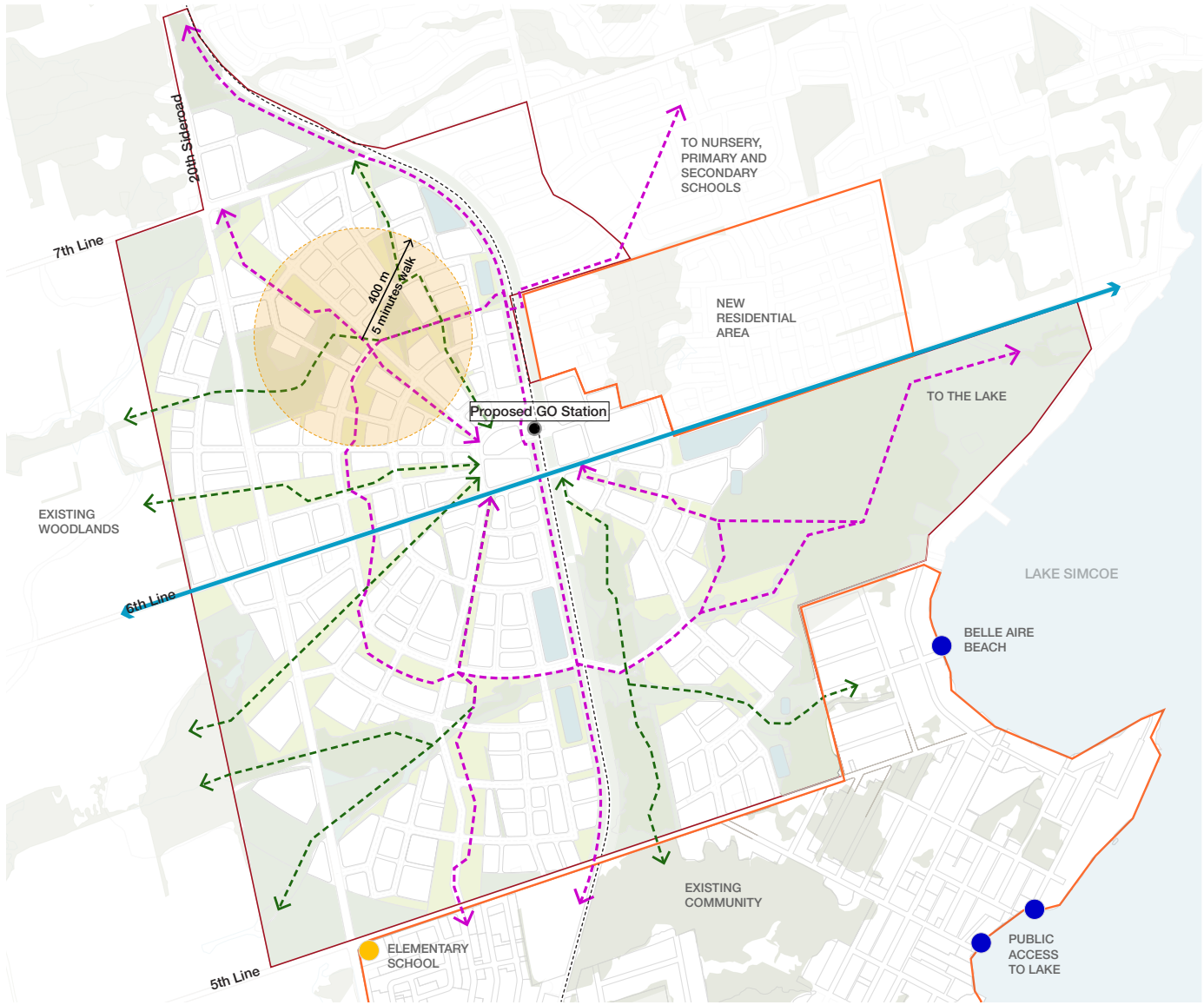
LINX_Route B

TMP_Innisfil Route C

Orbit Loop

Bus Stops

Mobility Active Travel Routes



MULTI-USE TRAIL



CYCLE PATH



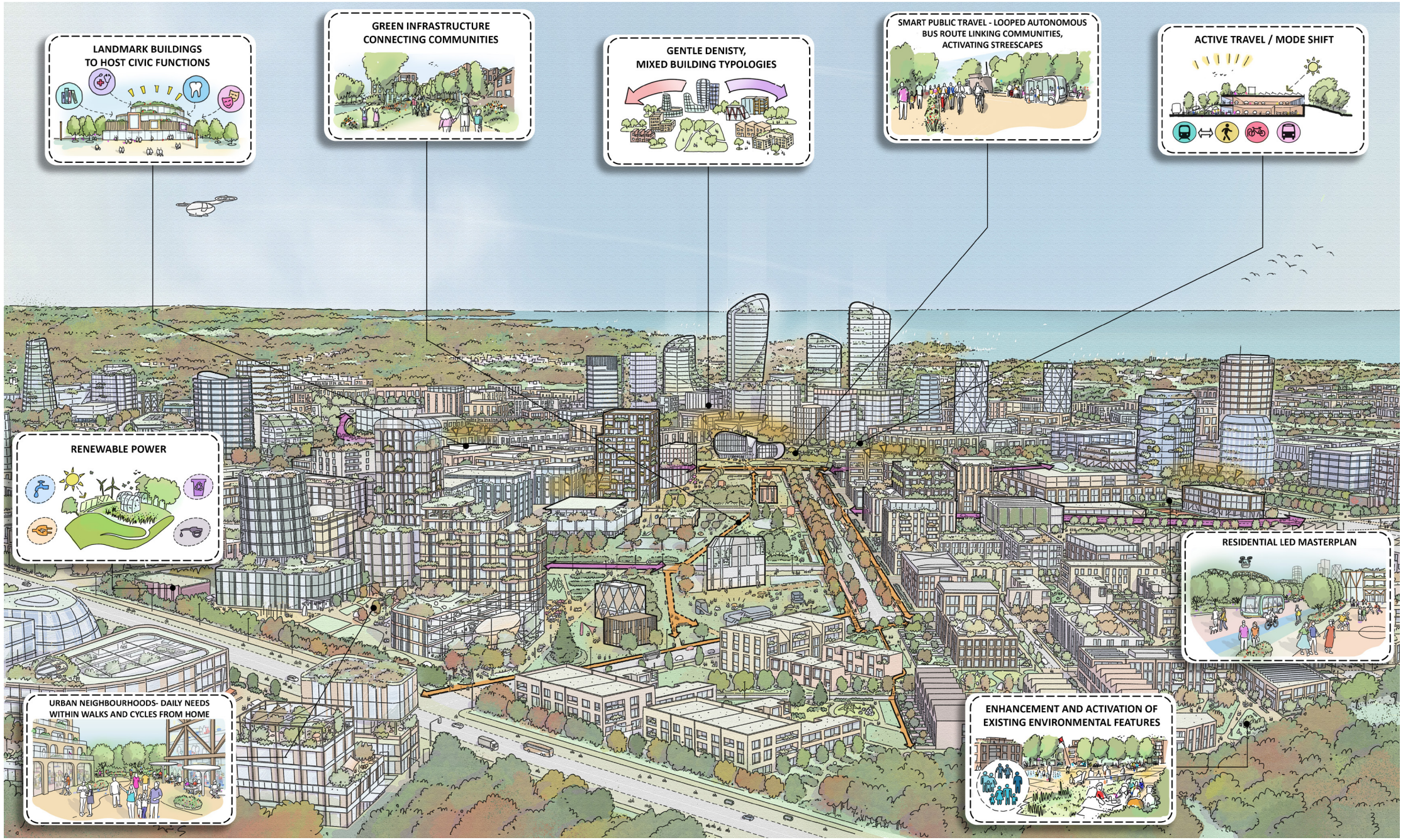
PEDESTRIAN PATH



Proposed Cycle Path

Proposed Multi-Use Trail

Multi-Use Trail


LANDMARK BUILDINGS
TO HOST CIVIC FUNCTIONS
GREEN INFRASTRUCTURE
CONNECTING COMMUNITIES
GENTLE DENISTY,
MIXED BUILDING TYPOLOGIES
SMART PUBLIC TRAVEL - LOOPED AUTONOMOUS
BUS ROUTE LINKING COMMUNITIES,
ACTIVATING STREESCAPES
ACTIVE TRAVEL / MODE SHIFT
RENEWABLE POWER
RESIDENTIAL LED MASTERPLAN
URBAN NEIGHBOURHOODS- DAILY NEEDS
WITHIN WALKS AND CYCLES FROM HOME
ENHANCEMENT AND ACTIVATION OF
EXISTING ENVIRONMENTAL FEATURES

Orbit Sustainability Principles

Social & Cultural Identity

- Create a sense of place and inclusivity through design for social and cultural diversity
- Affordable and flexible housing options for all community members

Transport & Movement

- Good cycle and pedestrian paths connecting neighbourhoods
- Transit-friendly neighbourhoods
- Promote zero-emission vehicles (ZEVs)
- ZEV-ready parking

Buildings

- Energy-efficient building design
- Water-efficient fixtures in buildings
- Charging infrastructure for electric and zero-emission vehicles
- Green infrastructure with green roofs, green walls and plants

Flexibility

- Multi-functional spaces that offer more than one use to the community
- Adaptable spaces for a diverse range of community needs

Environment & Green Space

- Creating landscapes that are resilient and support urban forest growth
- Access to local healthy food
- Access to parks, open spaces and green spaces

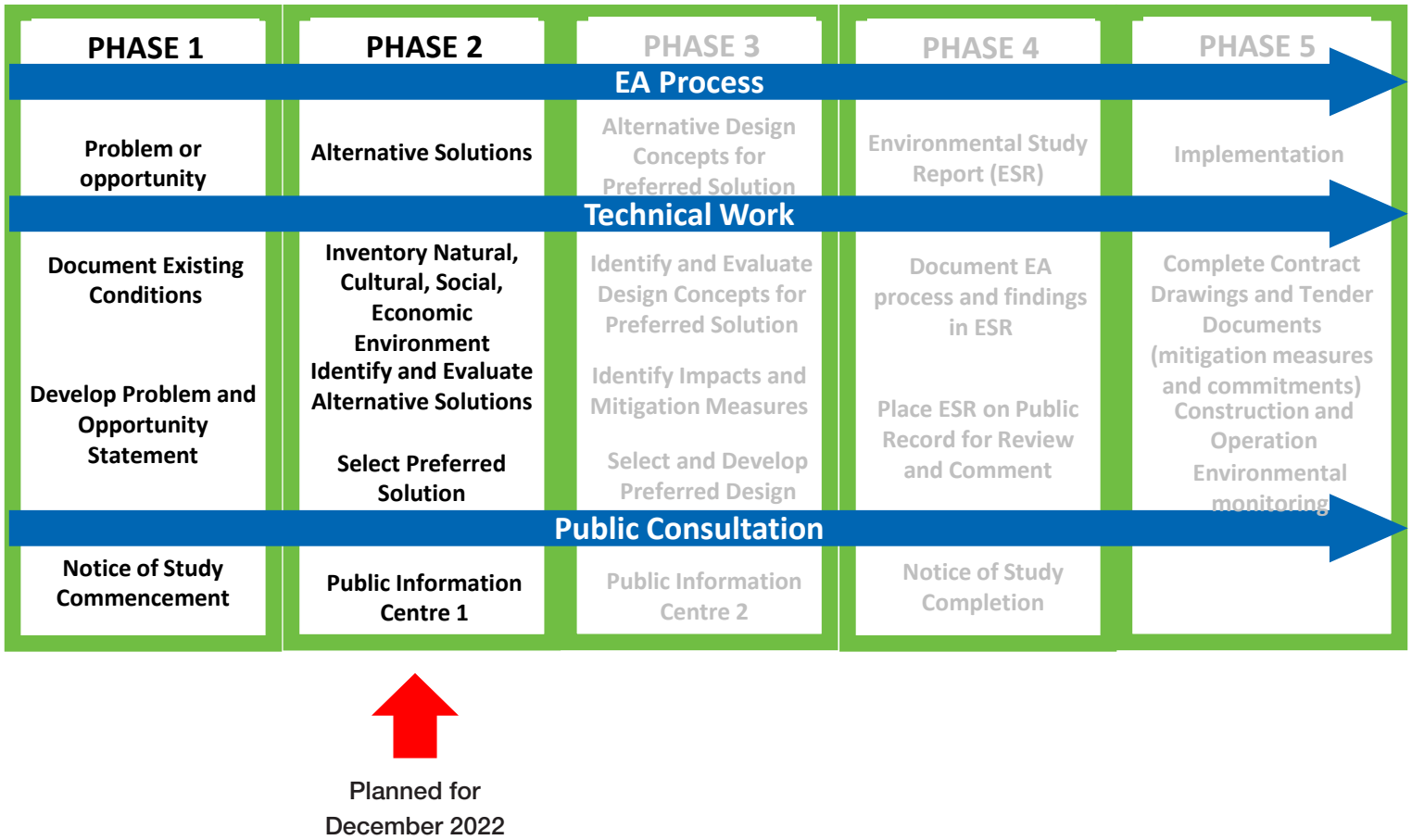
Energy

- Stormwater management and water quality protection during construction
- Low carbon and local energy supply
- Resilience to power disruption and weather events

In order of importance to you, please rank the principles above (1 to 6).

SERVICING MASTER PLAN

Servicing Master Plan Addresses Phases 1 and 2 of the Class EA Process



Planned for December 2022

Municipal Class Environmental Assessment Process:

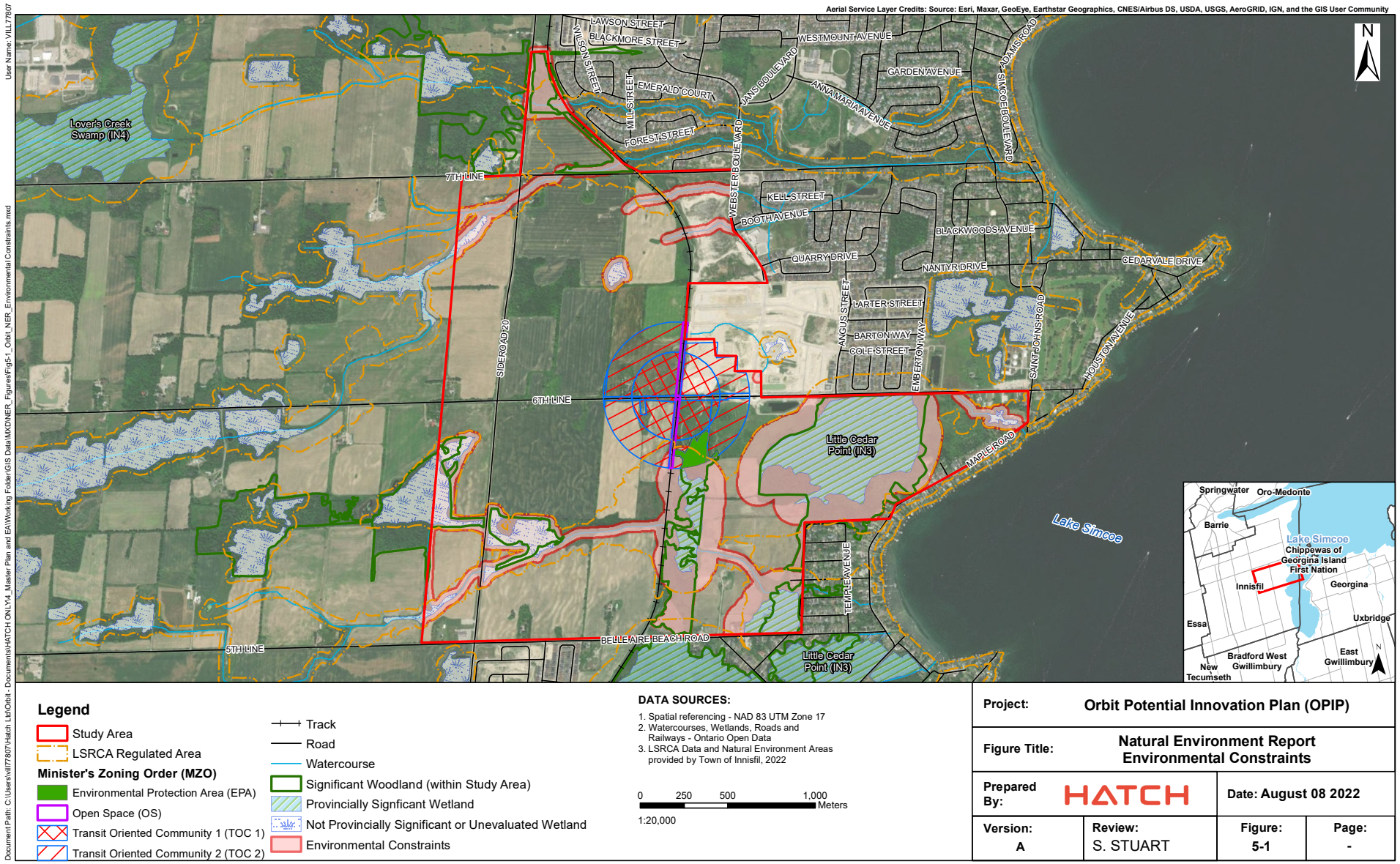
Outlines municipal projects according to their anticipated environmental impact and requires more stringent review as the size of the environmental impact increases.

The Class EA defines a Master Plan as:

"A long-range plan, integrating infrastructure requirements for present and future land use with environmental planning principles. The plan examines the infrastructure system in order to outline a framework for planning subsequent projects and/or developments" (Class EA, 2000, as amended in 2015)

The Servicing Plan being prepared for the OPIP study area includes municipal services (stormwater, wastewater, water and transportation).

Servicing Master Plan Natural Heritage - Environmental Constraints



Servicing Master Plan Natural Heritage – Constraints

- **Species at Risk Habitat:**

  Suitable habitat was identified for 15 Species at Risk within the Study Area.

  Formal surveys shall be conducted to confirm presence of SAR within the Study Area during future stages of the Project

- **Regulated LSRCA lands:**

  210 hectares of land mostly surrounding watercourses and wetlands

- **Unevaluated wetlands with an associated 30m setback:**

  6 unevaluated wetlands identified

- **Significant Woodlands:**

  Several within Study Area

- **Watercourses:**

  Banks Creek, Belle Aire Creek, Cedar Creek

- **Provincially Significant Wetland:**

  Little Cedar Point Provincially Significant Wetland (PSW)

Most properties will be required to undergo a subsequent environmental impact study (EIS) as part of subsequent projects and detailed design work and/or draft plans of subdivision. The Natural Heritage Assessment completed to date have been prepared to inform potential constraints and the basis for subsequent studies.

Servicing Master Plan Lake Simcoe Protection

Lake Simcoe Region County Authority (LSRCA) Policies

In an effort not to contribute to any further degradation of the Lake Simcoe watershed, there are a number of criteria imposed for stormwater management projects:

- Controlling peak storm events
- Improving infiltration
- Reduce turbidity by removing sand / grit
- Addressing total phosphorus to reduce potential of algae blooms
- Controlling storm events to allow water to settle (flash storm)

Lake Simcoe Protection Plan Policies

- Natural heritage evaluation required for development or site alteration within 120m of key natural heritage features
- Policies to minimize impacts of quality and quantity of urban runoff

POPULATION AND PHASING

Community Infrastructure

1. As we develop our phasing plan, what innovative community infrastructure is needed first to support the plan and to enable this growth?

Strategic Partnerships

1. How should the public and private sector work together to provide community infrastructure?

2. Do you have any suggestions for ways in which these partnerships can be innovative and encourage active transportation and transit use?

Population and Phasing Preliminary

2021 - 2026 (5 Years)
Dwelling No. _ 2,364
Population No. _ 4,068
Employment No. _ 581

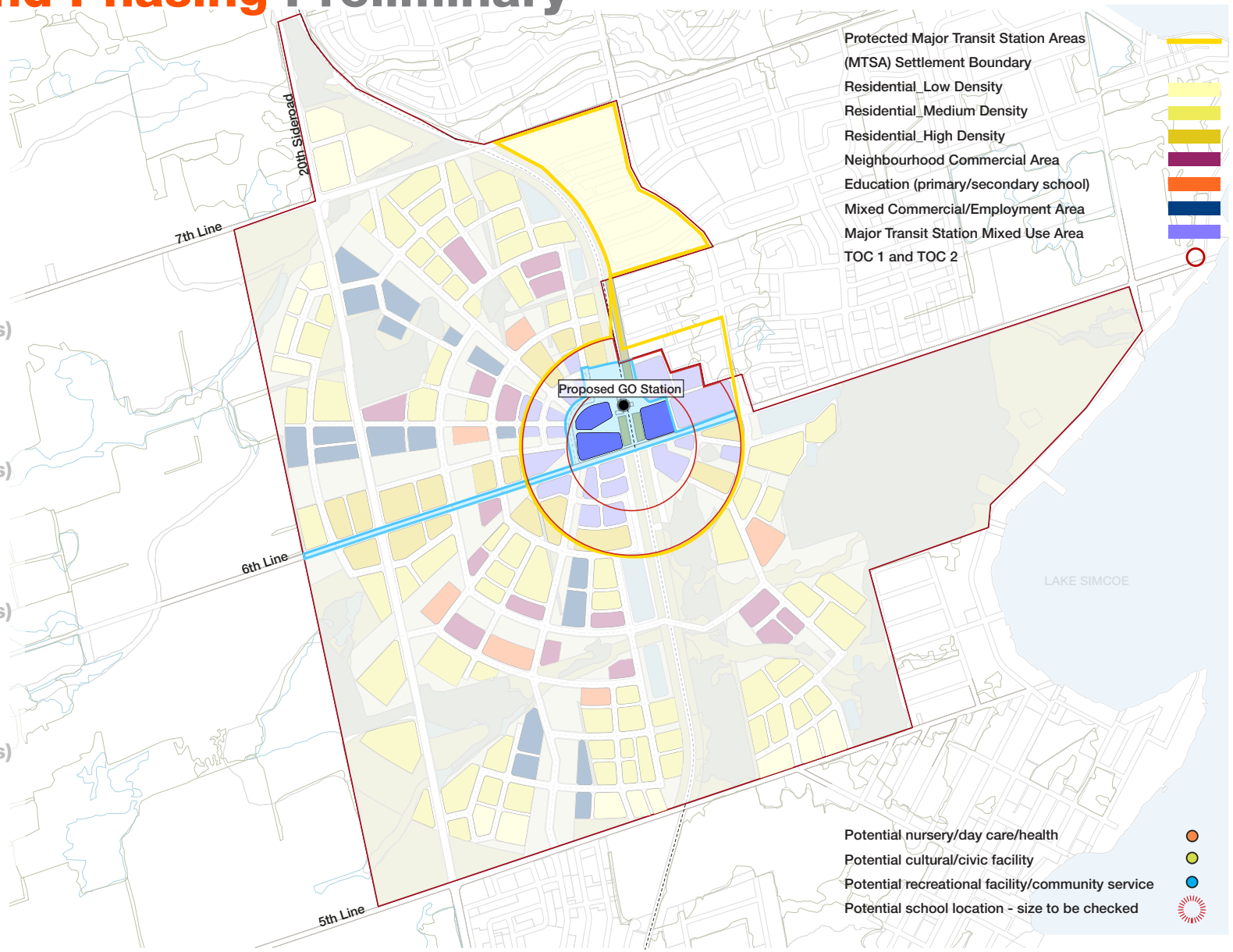
2026 - 2031 (5 Years)
Dwelling No. _ 3,118
Population No. _ 5,336
Employment No. _ 767

2031 - 2051 (20 Years)
Dwelling No. _ 7,608
Population No. _ 13,087
Employment No. _ 1,149

2051 - 2061 (10 Years)
Dwelling No. _ 7,819
Population No. _ 13,993
Employment No. _ 1,662

2061 - 2071 (10 Years)
Dwelling No. _ 7,760
Population No. _ 14,785
Employment No. _ 5,382

2071 - 2091 (20 Years)
Dwelling No. _ 14,675
Population No. _ 31,987
Employment No. _ 8,617



SUBTOTAL 2026
Dwelling No. _ 2,364
Population No. _ 4,068
Employment No. _ 581

Total Population 2091
_ 83,256

0 100 200 500

WORK IN PROGRESS 2022 10 27

Population and Phasing Preliminary

2021 - 2026 (5 Years)
Dwelling No. _ 2,364
Population No. _ 4,068
Employment No. _ 581

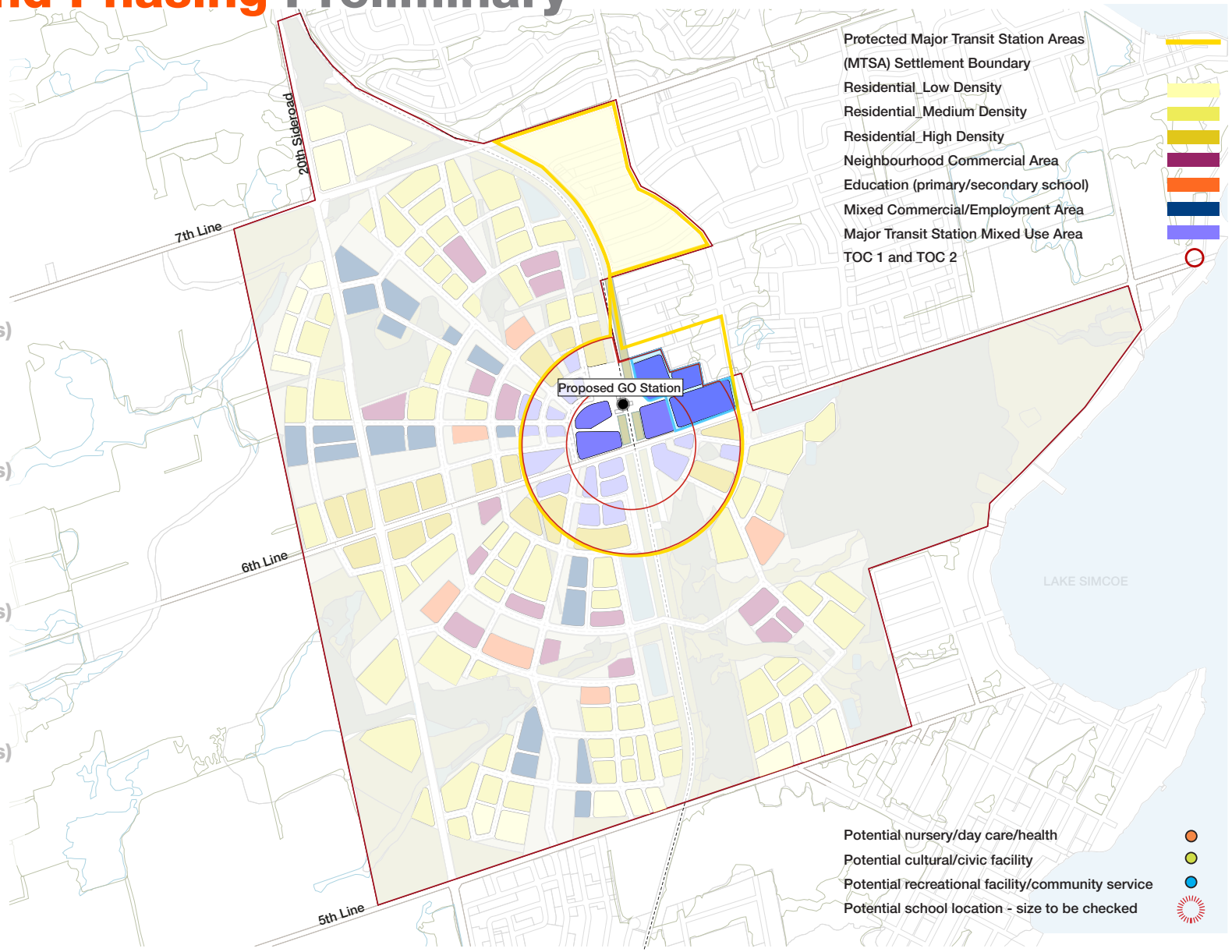
2026 - 2031 (5 Years)
Dwelling No. _ 3,118
Population No. _ 5,336
Employment No. _ 767

2031 - 2051 (20 Years)
Dwelling No. _ 7,608
Population No. _ 13,087
Employment No. _ 1,149

2051 - 2061 (10 Years)
Dwelling No. _ 7,819
Population No. _ 13,993
Employment No. _ 1,662

2061 - 2071 (10 Years)
Dwelling No. _ 7,760
Population No. _ 14,785
Employment No. _ 5,382

2071 - 2091 (20 Years)
Dwelling No. _ 14,675
Population No. _ 31,987
Employment No. _ 8,617



SUBTOTAL 2031
Dwelling No. _ 5,482
Population No. _ 9,404
Employment No. _ 1,348

Total Population 2091
_ 83,256

0 100 200 500

WORK IN PROGRESS 2022 10 27

Population and Phasing Preliminary

2021 - 2026 (5 Years)
Dwelling No. _ 2,364
Population No. _ 4,068
Employment No. _ 581

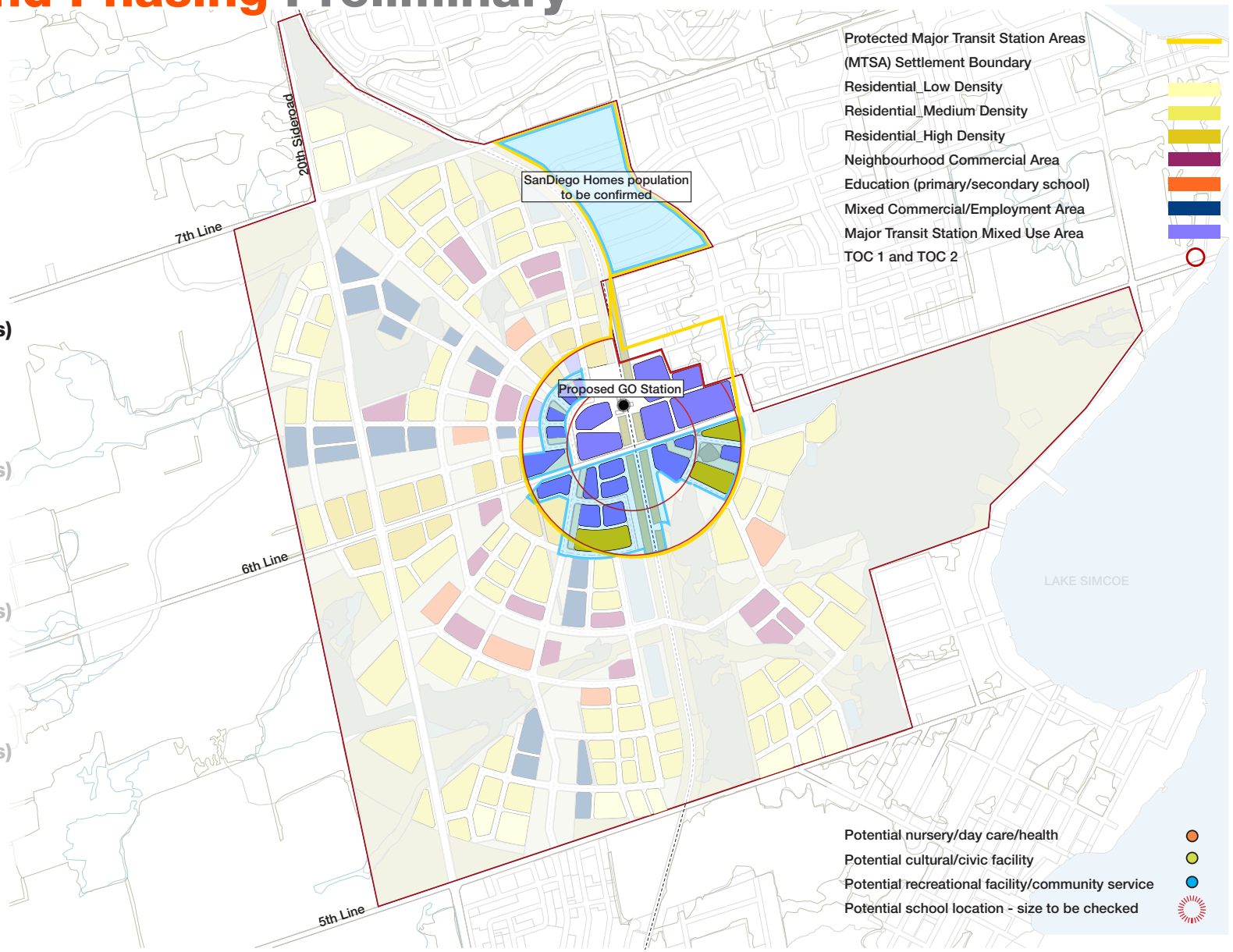
2026 - 2031 (5 Years)
Dwelling No. _ 3,118
Population No. _ 5,336
Employment No. _ 767

2031 - 2051 (20 Years)
Dwelling No. _ 7,608
Population No. _ 13,087
Employment No. _ 1,149

2051 - 2061 (10 Years)
Dwelling No. _ 7,819
Population No. _ 13,993
Employment No. _ 1,662

2061 - 2071 (10 Years)
Dwelling No. _ 7,760
Population No. _ 14,785
Employment No. _ 5,382

2071 - 2091 (20 Years)
Dwelling No. _ 14,675
Population No. _ 31,987
Employment No. _ 8,617



SUBTOTAL 2051
Dwelling No. _ 13,090
Population No. _ 22,491
Employment No. _ 2,497

Total Population 2091 _ 83,256

0 100 200 500

WORK IN PROGRESS 2022 10 27

Population and Phasing Preliminary

2021 - 2026 (5 Years)
Dwelling No. _ 2,364
Population No. _ 4,068
Employment No. _ 581

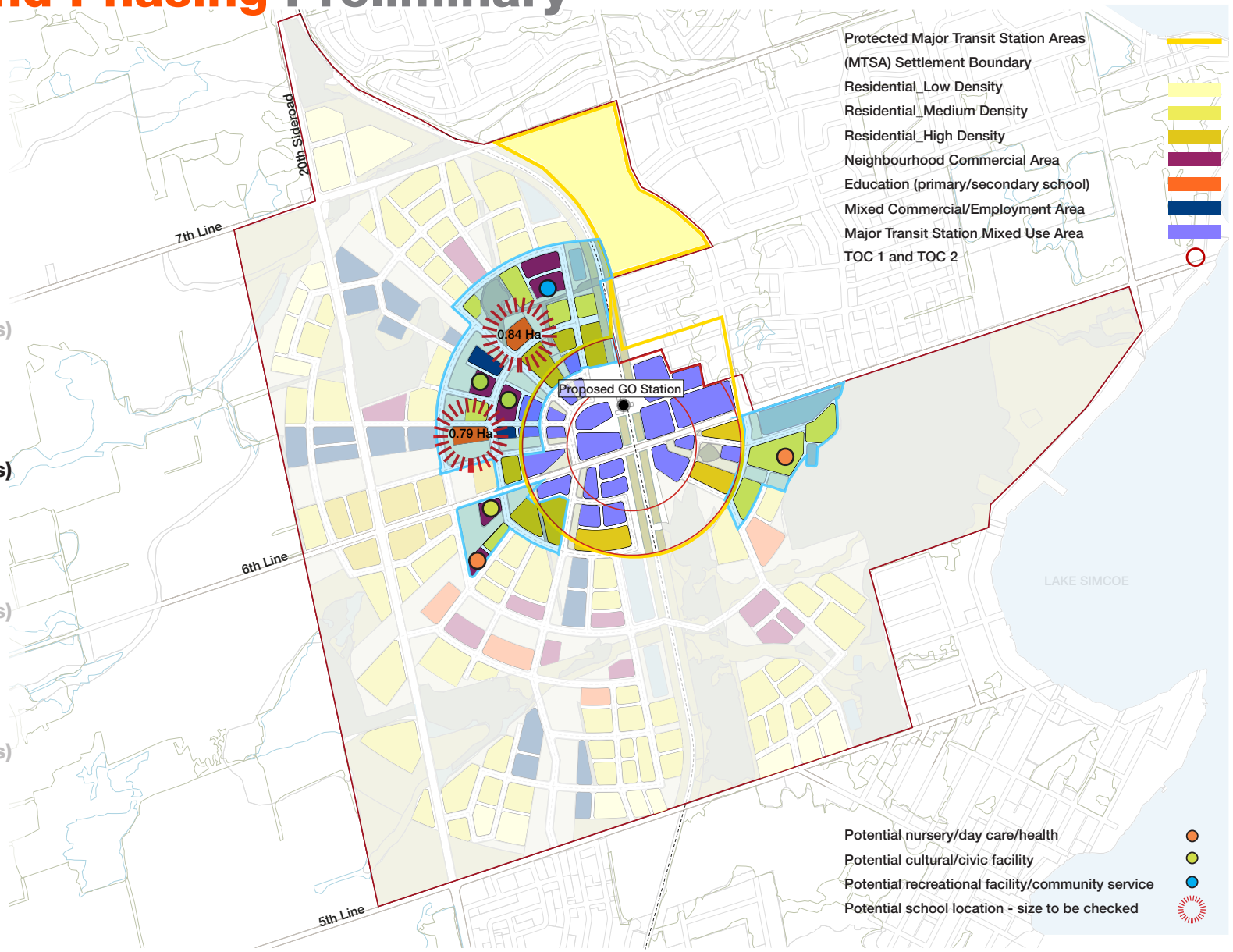
2026 - 2031 (5 Years)
Dwelling No. _ 3,118
Population No. _ 5,336
Employment No. _ 767

2031 - 2051 (20 Years)
Dwelling No. _ 7,608
Population No. _ 13,087
Employment No. _ 1,149

2051 - 2061 (10 Years)
Dwelling No. _ 7,819
Population No. _ 13,993
Employment No. _ 1,662

2061 - 2071 (10 Years)
Dwelling No. _ 7,760
Population No. _ 14,785
Employment No. _ 5,382

2071 - 2091 (20 Years)
Dwelling No. _ 14,675
Population No. _ 31,987
Employment No. _ 8,617



SUBTOTAL 2061
Dwelling No. _ 20,909
Population No. _ 36,484
Employment No. _ 4,159

Total Population 2091
_ 83,256

0 100 200 500

WORK IN PROGRESS 2022 10 27

Population and Phasing Preliminary

2021 - 2026 (5 Years)
Dwelling No. _ 2,364
Population No. _ 4,068
Employment No. _ 581

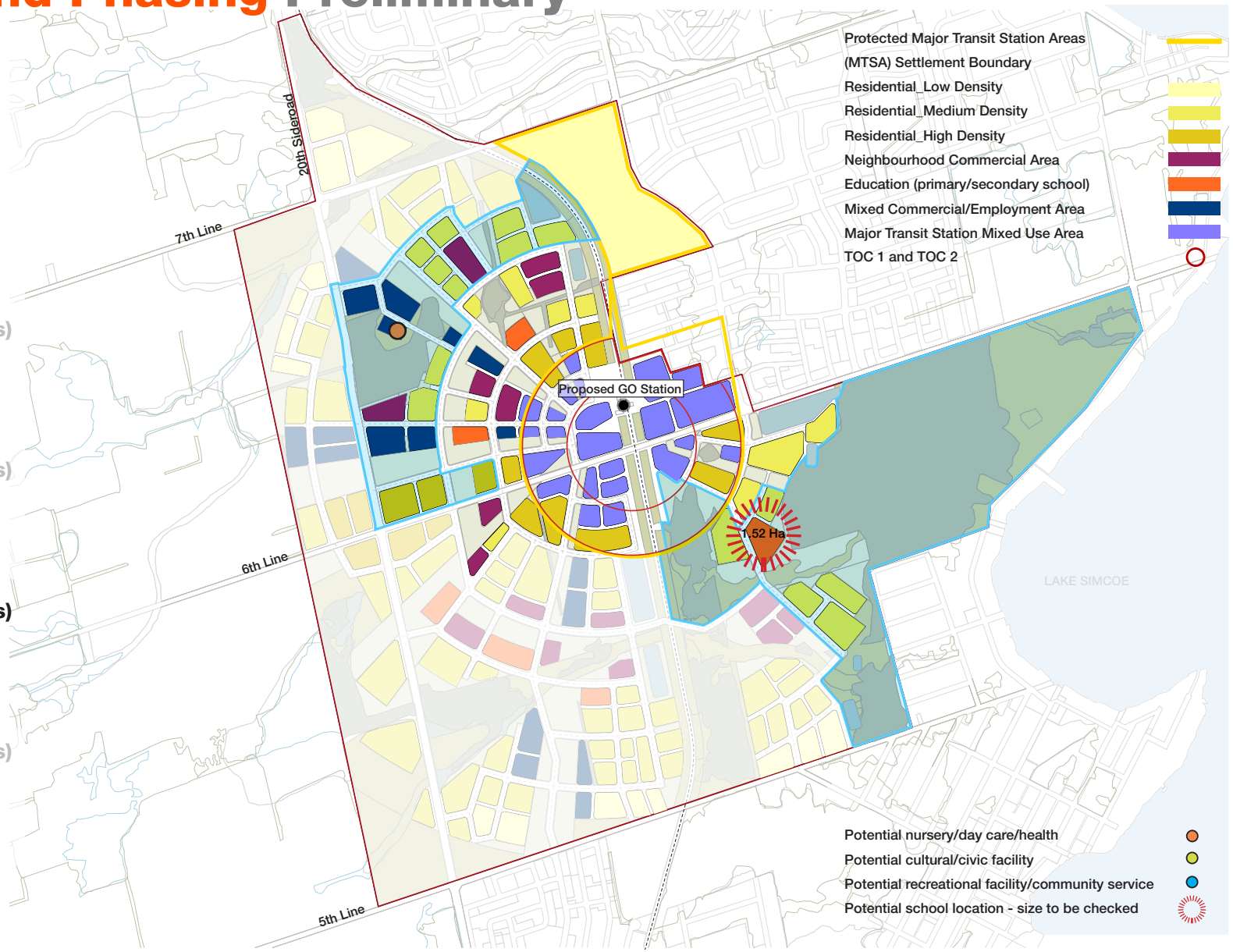
2026 - 2031 (5 Years)
Dwelling No. _ 3,118
Population No. _ 5,336
Employment No. _ 767

2031 - 2051 (20 Years)
Dwelling No. _ 7,608
Population No. _ 13,087
Employment No. _ 1,149

2051 - 2061 (10 Years)
Dwelling No. _ 7,819
Population No. _ 13,993
Employment No. _ 1,662

2061 - 2071 (10 Years)
Dwelling No. _ 7,760
Population No. _ 14,785
Employment No. _ 5,382

2071 - 2091 (20 Years)
Dwelling No. _ 14,675
Population No. _ 31,987
Employment No. _ 8,617



SUBTOTAL 2071
Dwelling No. _ 28,669
Population No. _ 51,269
Employment No. _ 9,541

Total Population 2091
_ 83,256

0 100 200 500

WORK IN PROGRESS 2022 10 27

Population and Phasing Preliminary

2021 - 2026 (5 Years)
Dwelling No. _ 2,364
Population No. _ 4,068
Employment No. _ 581

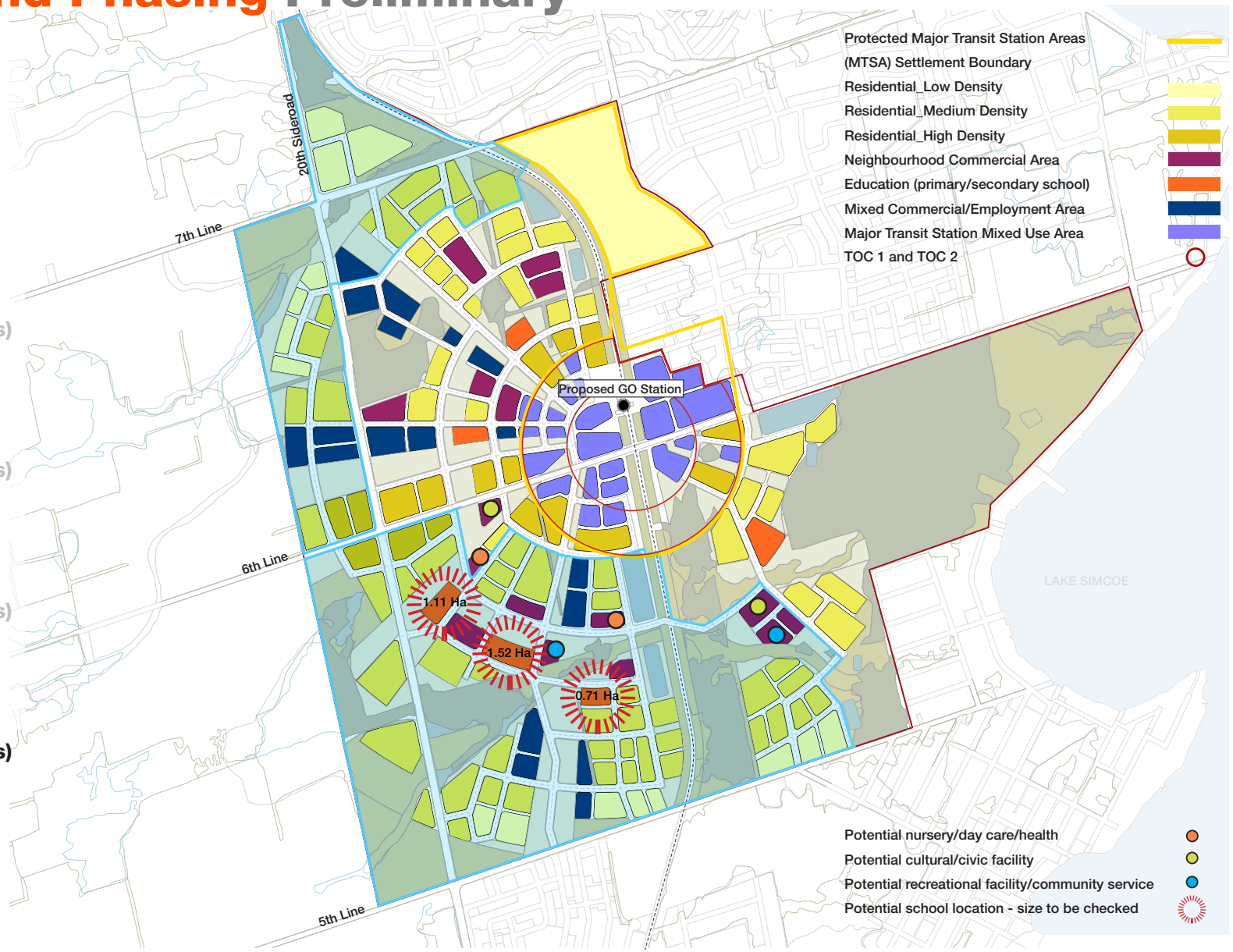
2026 - 2031 (5 Years)
Dwelling No. _ 3,118
Population No. _ 5,336
Employment No. _ 767

2031 - 2051 (20 Years)
Dwelling No. _ 7,608
Population No. _ 13,087
Employment No. _ 1,149

2051 - 2061 (10 Years)
Dwelling No. _ 7,819
Population No. _ 13,993
Employment No. _ 1,662

2061 - 2071 (10 Years)
Dwelling No. _ 7,760
Population No. _ 14,785
Employment No. _ 5,382

2071 - 2091 (20 Years)
Dwelling No. _ 14,675
Population No. _ 31,987
Employment No. _ 8,617



SUBTOTAL 2091
Dwelling No. _ 43,344
Population No. _ 83,256
Employment No. _ 18,158

Total Population 2091
_ 83,256

0 100 200 500

WORK IN PROGRESS 2022 10 27