

Concept Plan.

Fourth Submission.

November 2020.

2559688 Ontario Inc.







MINTO COMMUNITIES - CANADA

200-180 Kent Street Ottawa, Ontario K1P 0B6 t | 613.786.3279

MINTO.COM

PREPARED BY



NAK DESIGN STRATEGIES

421 Roncesvalles Avenue Toronto, Ontario M6R 2N1 t | 416.340.8700

NAKDESIGNSTRATEGIES.COM

Section A. Context & Analysis







Section B. Neighbourhood Design



Vision & Design Principles.



Neighbourhood Master Plan.



Built Form.



Open Space.



Road Network.



Context & Analysis. Section A.

- 1 Kanata Context.
- 2 Kanata North Context.
- 3 Site Analysis.

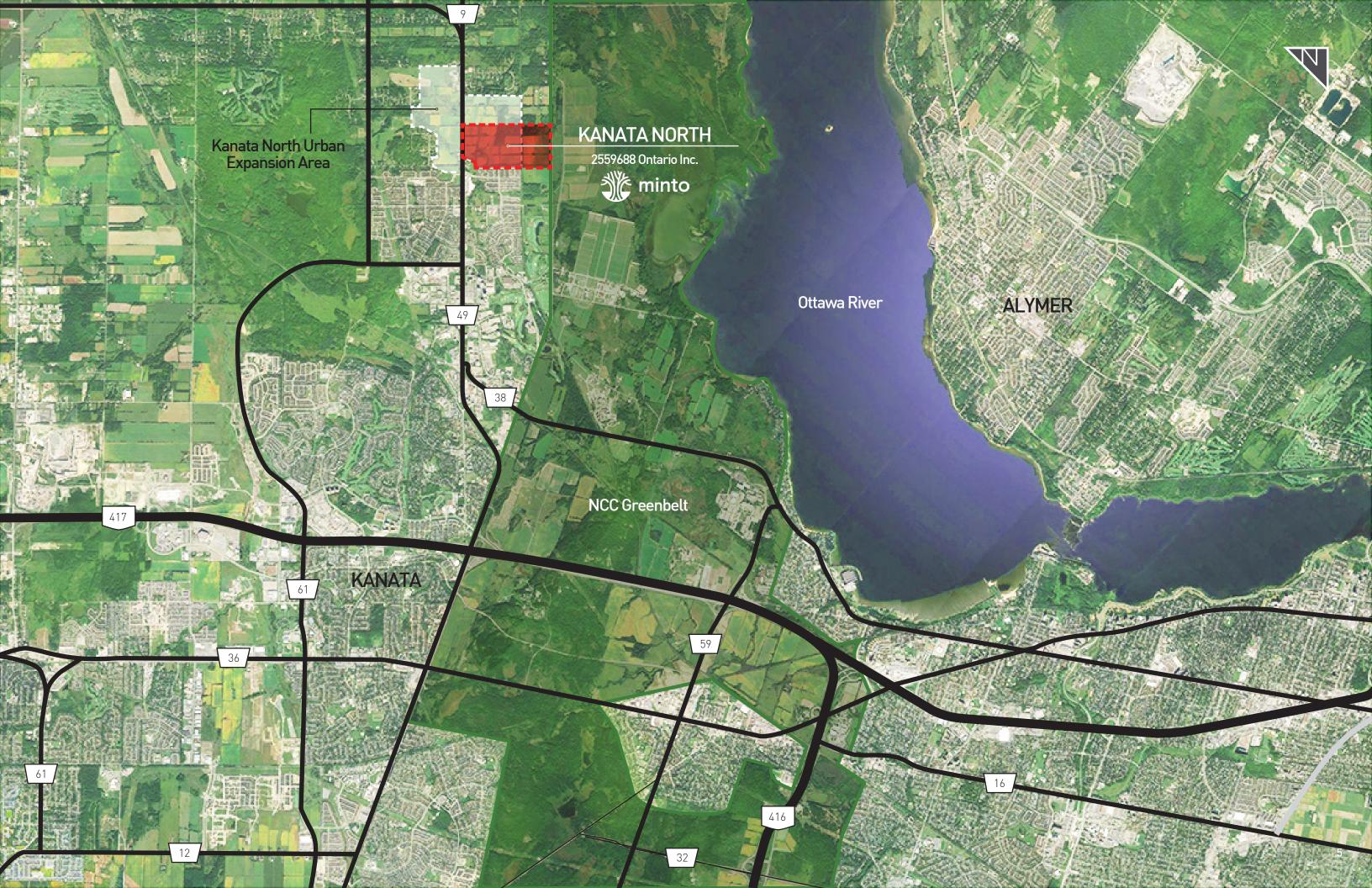
Kanata Context. 1



As one of the largest suburbs of Ottawa, Kanata is experiencing an increased demand for residential development. In order to accommodate and plan for the projected growth Kanata and other suburbs within Ottawa will experience, the City has designated 11 areas as Urban Expansion Study Areas. One of these selected areas is the Kanata North Urban Expansion Area (KNUEA), a 181.0 hectare (447.6 acres) area bordered by a decommissioned CN rail corridor to the east, Hillsview Estate Subdivision to the north, the Marchbrook Circle and Panandrick subdivisions to the west, and the established communities of Morgan's Grant, Briarbrook, and Brookside to the south. The area is now considered part of the General Urban Area, with policy directives for growth contained with the Kanata North Community Design Plan.

Legend





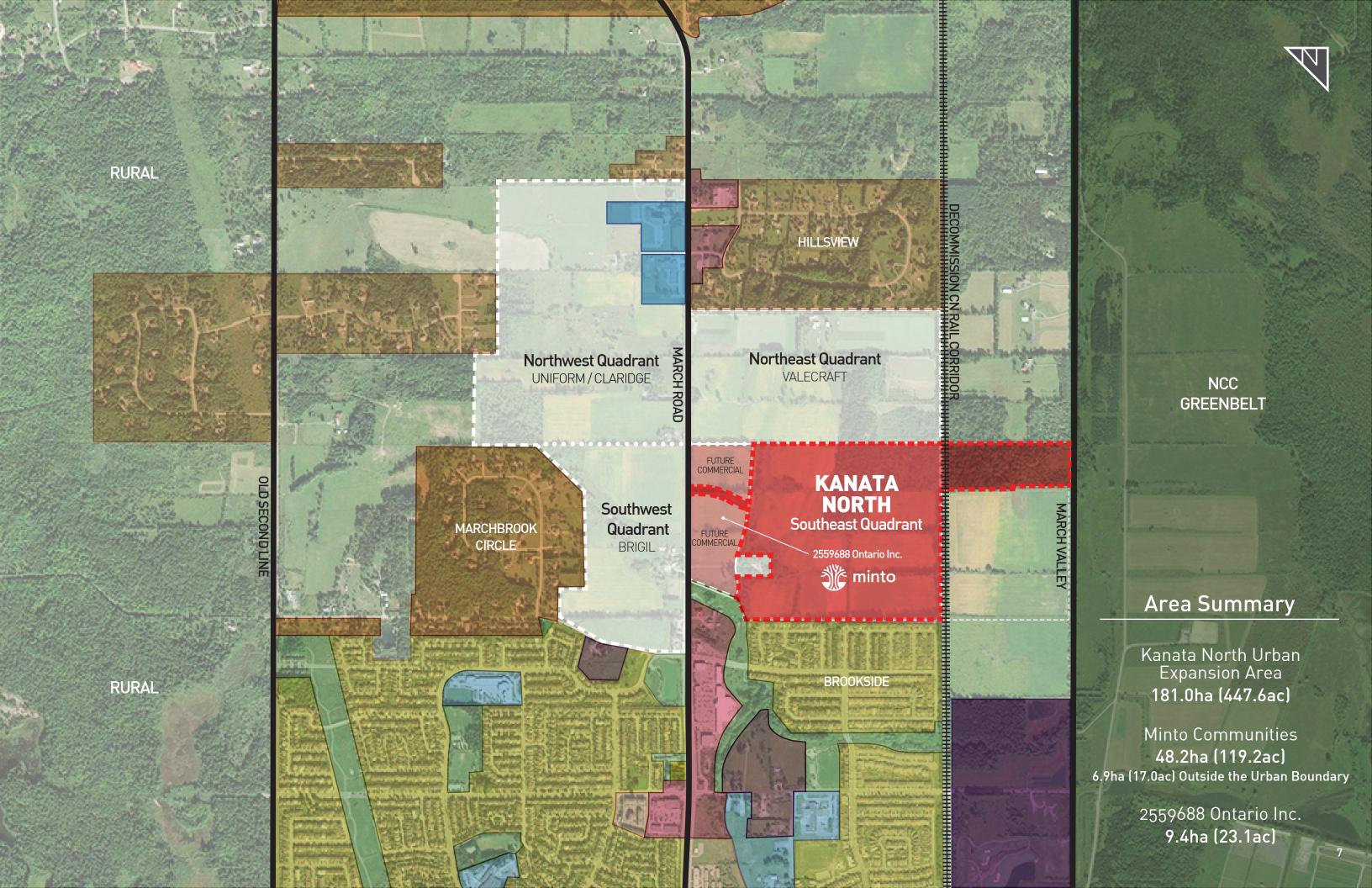
Kanata North Context.



Minto Kanata North, 48,22 hectares (119,15 acres), is located within the southeast quadrant of the Kanata North Urban Expansion Area (KNUEA), as set forth by the Kanata North Community Design Plan (CDP). The lands are accessible from March Road and are surrounded by a variety of uses, including existing residential, agricultural land, a decommissioned CN rail corridor, a tributary, and future retail/ commercial. Permitted land uses have therefore been forecasted to complement the existing uses, including various residential typologies and retail/commercial.

As Kanata continues to expand, sufficient services and infrastructure must be provided to accommodate growth. March Road represents the main north-south corridor that provides access to and from the KNUEA and has been classified as a major urban arterial. More infrastructure improvements are therefore being planned for the March Road Corridor to accommodate the safe and efficient movement of goods and people, including high-order transit in the form of a bus rapid transit service.

Legend Multi-Unit Residential Street-Oriented Residential Privately Serviced Residential Retail and Commercial Undeveloped Urban Enterprise Area Institutional Subject Site KNUEA Quadrant Boundary KNUEA



Site Analysis.



Existing features present both opportunities and constraints to the development at Kanata North. As mentioned previously, the subject lands are bounded by a variety of land uses. Adjacencies have therefore been acknowledged and integrated into the planning and design of the neighbourhood.

A portion of the Shirley's Brook Tributary 2 runs north-south along the western edge of the site. This corridor, which will be conveyed to the City through the plan of subdivision approval, is designated as an Urban Natural Feature within the City of Ottawa's Official Plan. Due to its classification and sensitivity, a 40m buffer surrounds this natural feature to accommodate vegetation and minimize adverse impacts from adjacent land uses. A portion of this corridor has been retained by 2559688 Ontario Inc. for access to the existing farmhouse.

Additional depth and vegetative buffering will also be provided in areas that abut existing residential lands for transitional and privacy considerations. The decommissioned CN rail corridor running along the east boundary of the site will also present a unique interface for the incoming neighbourhood. Although the corridor has yet to be re-designated, its future potential presents a valuable asset to the overall community.

Lastly, an existing woodlot and a proposed stormwater management pond east of the site, currently outside of the Urban Boundary, will be conveyed to the City through the draft plan process.

Existing Woodlot / Treed Area Tributary Corridor

Future	Com	me	erci	а
	٥.		_	

Legend

Existing Single-Detached



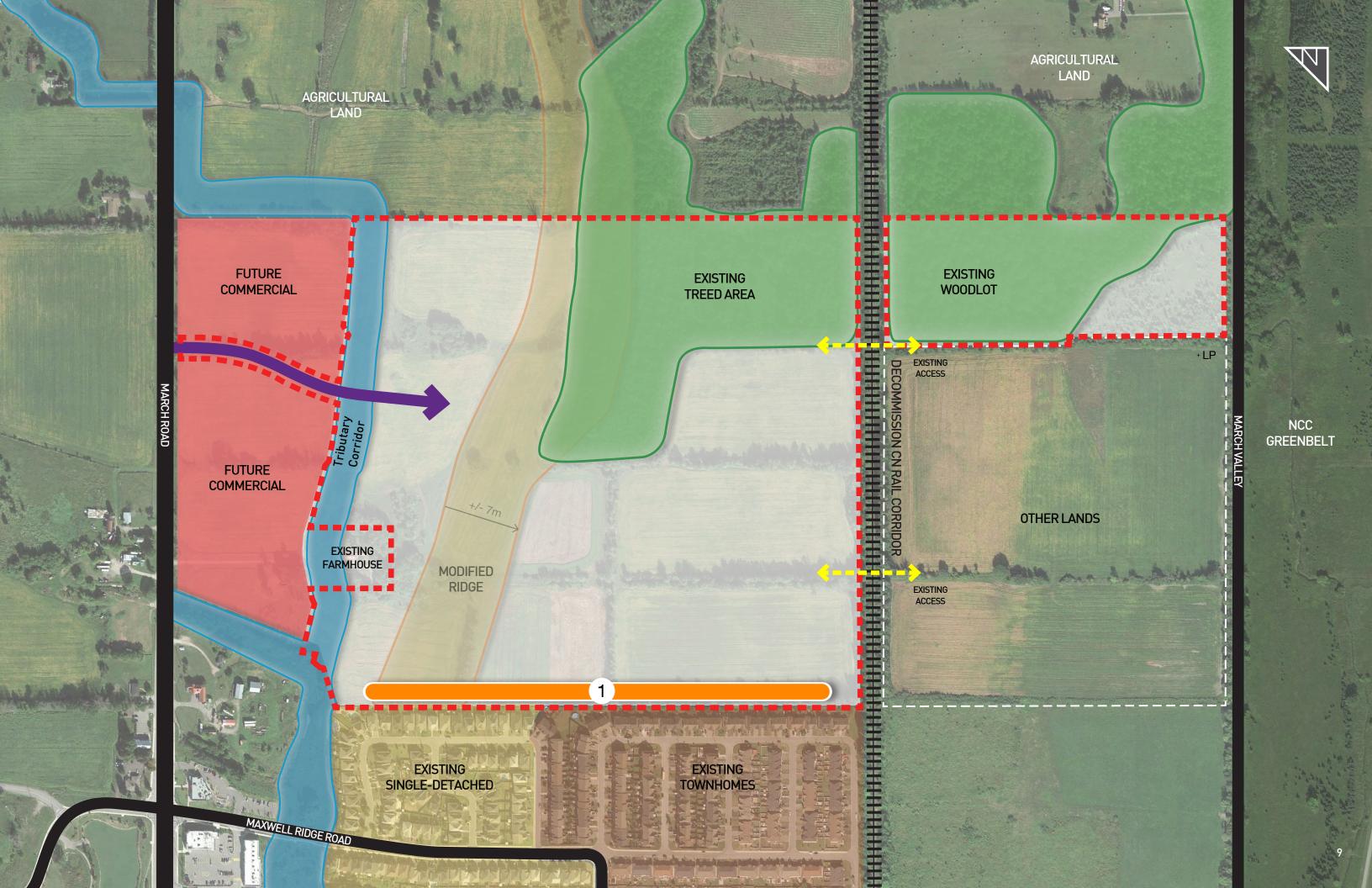
Decommissioned CN Rail Corridor













Neighbourhood Design. Section B.

- 4 Vision & Design Principles.
- 5 Neighbourhood Master Plan.
- 6 Built Form.
- 7 Open Space.
- 8 Road Network.

Vision & Design Principles. 4



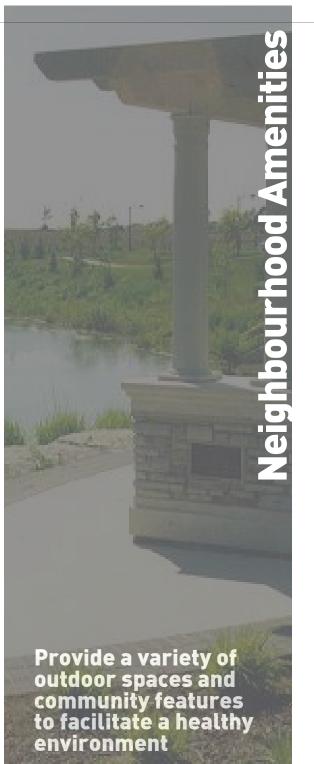


Through the creation of a mindful, integrated, and cohesive network of parks, open spaces, roads, and pathways, Minto Kanata North will be an identifiable neighbourhood respectful of the regional charm, and complementary to the surrounding communities.

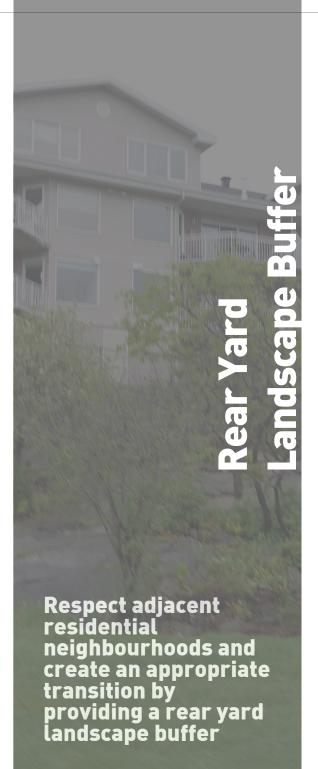












Neighbourhood Master Plan.



The Minto Kanata North Neighbourhood will be designed with the intent of providing thorough connectivity and accessibility for residents and visitors throughout the community. The presented road pattern features both collectors and local roads that allow for easy access to the school, neighbourhood park, parkette, and future commercial sites. This network of streets has also been designed to improve walkability and connectivity to neighbourhood amenities, with pathways situated throughout to increase access to existing and future developments and open spaces.

The main neighbourhood entry, directly off of March Road, will include aesthetically enhanced gateway features and an improved collector road streetscape to provide a 'sense of arrival' for both residents and visitors. The design and character of these features will also be reflected in various landscape components, markers, and fencing treatments to create a consistent theme throughout the neighbourhood.

Homes backing onto the existing residential neighbourhood to the south have been designed to complement the existing built form typologies and will have additional depth to accommodate a landscape buffer. Please note, landscape buffer subject to a Tree Conservation Report (TCR).

Another key component of the plan is the network of integrated parks and open spaces. These strategically placed amenities, located along major roads and at key terminations, will cater to the surrounding population and offer opportunities for both passive and active outdoor activities. Additionally, the tributary corridor to the west will further improve north-south connectivity through the creation of a recreational pathway (3m Tributary Corridor Trail).

Overall, Minto Kanata North will provide a distinct neighbourhood identity that respects, preserves, and enhances existing open spaces and natural features.

Single-Detached Front Drive Townhomes Back-To-Back Townhomes Future Commercial School Stormwater Pond Parks & Open Space Recreational Pathway Rail Corridor Woodlot

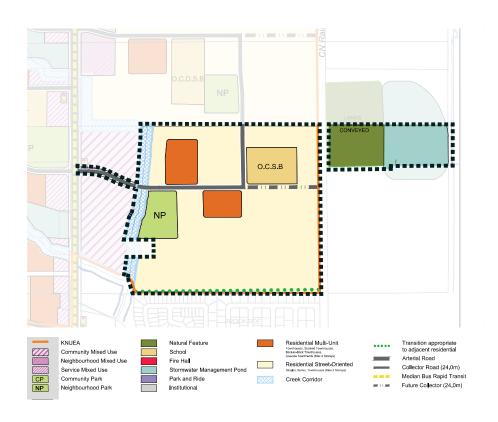
Tributary



Built Form. 6

In conformity with the CDP, housing that will be incorporated in Minto Kanata North include single-detached homes, front drive townhomes, and back-to-back townhomes, all having a maximum of three storeys. These typologies are consistent with the existing neighbourhood to the south. Blocks backing onto this development will benefit from having deeper lot depths that reflect the adjacent residential conditions and create an appropriate transition/buffer.

The subject lands will also contain a 2.51 hectare school site, a 2.57 hectare neighbourhood park, and a smaller 0.48 hectare parkette, all of which are of acceptable size and in conformance with the CDP.



Kanata North - CDP Land Use Plan

Figure 5 Land Use Map



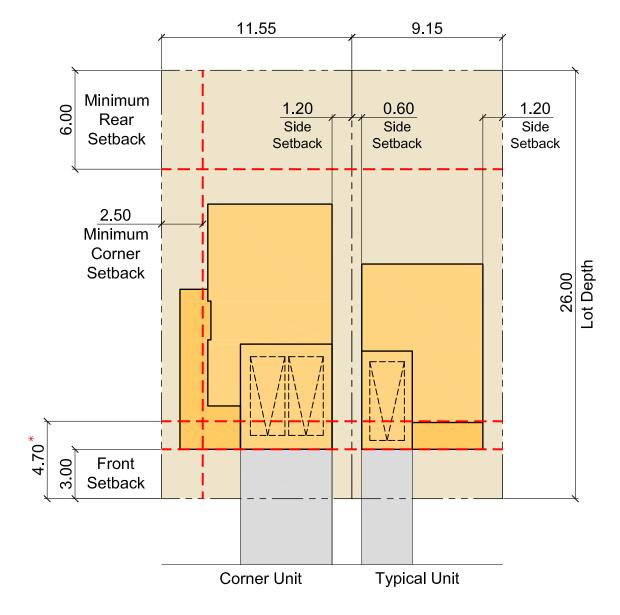


36.00 KNUEA Average Density (units per gross hectare)

Minimum

Unit Count	Number of Units	% of Total	
Single-Detached	324	35%	DENSITY
Front Drive Townhome	481	53%	41.8
Back-To-Back Townhome	110	12%	UPH
Total	915	100%	OTT

30' Single-Detached Home.



- * 4.7m Front Setback For Sensitive Soils
- ** 5.0m Rear Yard Setback For Lots Abutting Existing Residential





Traditional Style



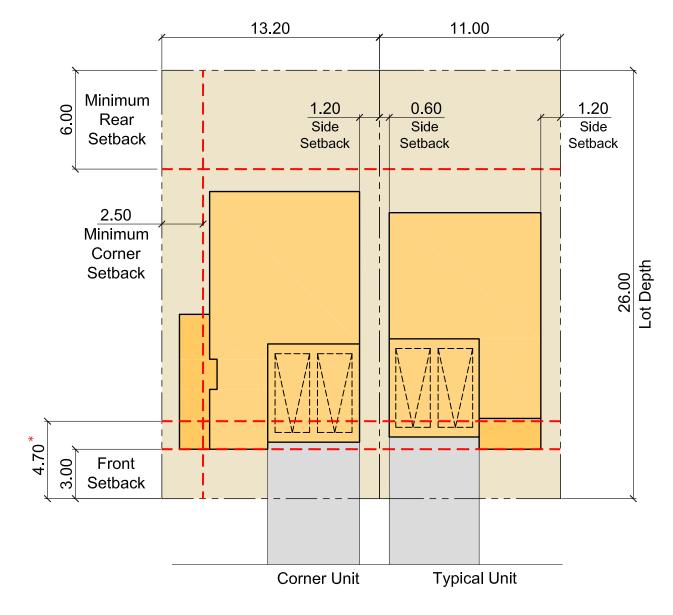
Traditional Style



Contemporary Corner Product

dure 7 Conceptual Architectural Renderings - 30' Single-Detached Home

36' Single-Detached Home.



- * 4.7m Front Setback For Sensitive Soils
- ** 5.0m Rear Yard Setback For Lots Abutting Existing Residential





Contemporary Style



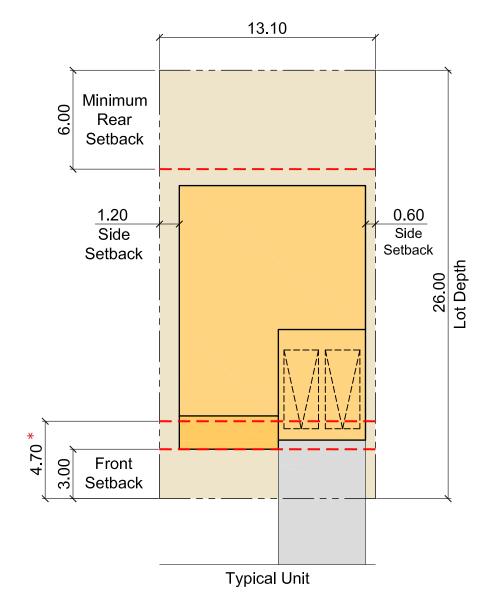
Traditional Style



Traditional Corner Product

igure 9 Conceptual Architectural Renderings - 36' Single-Detached Home

43' Single-Detached Home.



- * 4.7m Front Setback For Sensitive Soils
- ** 5.0m Rear Yard Setback For Lots Abutting Existing Residential





Traditional Style



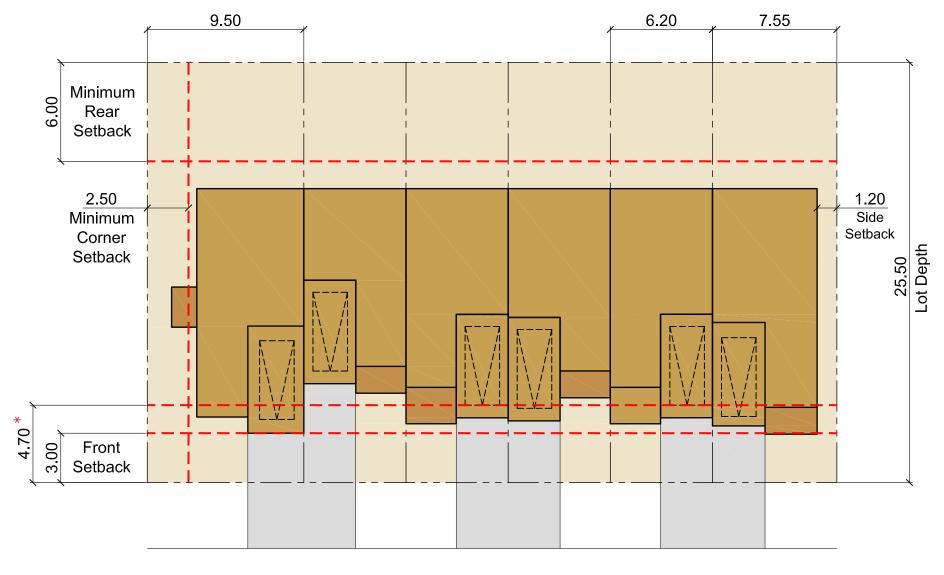
Traditional Style



Contemporary Style

Gonceptual Architectural Renderings - 43' Single-Detached Home

Front Drive Townhome.





Traditional Style



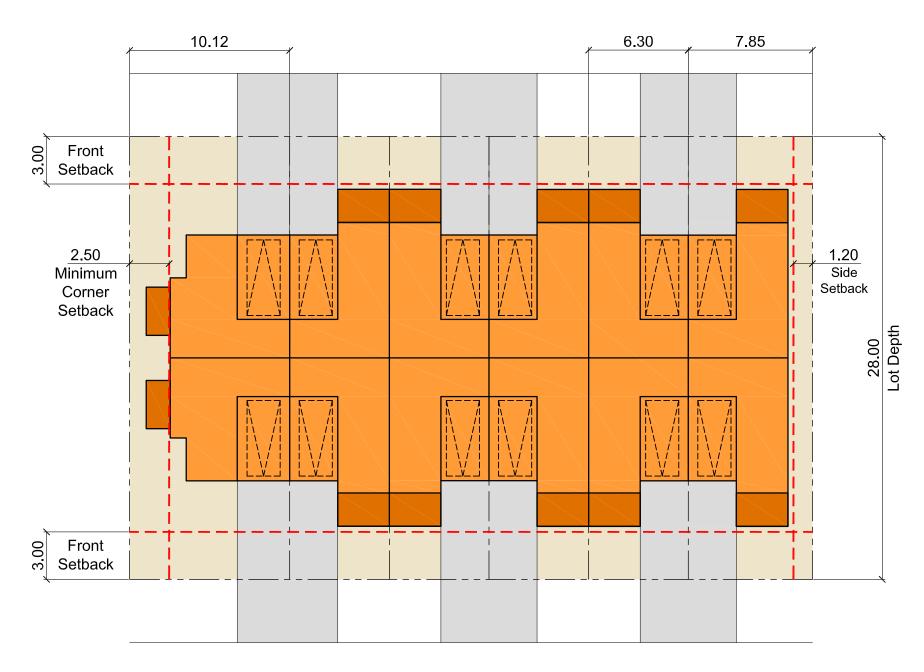
Contemporary Style

- * 4.7m Front Setback For Sensitive Soils
- ** 5.0m Rear Yard Setback For Lots Abutting Existing Residential

Figure 12 Front Drive Townhomes Lotting Standard and Measurements

Figure 13 Conceptual Front Drive Townhomes Renderings

Back-To-Back Townhome.





Traditional Style

Figure 14 Back-To-Back Townhomes Lotting Standard and Measurements

Figure 15 Conceptual Back-To-Back Townhomes Rendering

Setback Summary.

Product	30' Singles	36' Singles	43' Singles	
Single-Detached	11,55 9,15 Minimum Rear Setback Seback Seba	13.20 11.00 Rear Setback Setback Setback Setback 2.50 Minimum Corner Setback Setback Setback Setback Setback Corner Setback Typical Unit	13,10 Minimum Rear Setback 1,20 Side Setback 1,20 Side Setback 1,20 Side Setback 7 ypical Unit	
Front Yard Setback	3.00m	3.00m	3.00m	
	4.70m (for sensitive soils)	4.70m (for sensitive soils)	4.70m (for sensitive soils)	
Rear Yard	6.00m	6.00m	6.00m	
Setback	5.00m (abutting existing residential)	5.00m (abutting existing residential)	5.00m (abutting existing residential)	
Interior Side Yard Setback	1.80m (with the min on one side at least 0.6)	1.80m (with the min on one side at least 0.6)	1.80m (with the min on one side at least 0.6)	
Corner Side Yard Setback	2.50m	2.50m	2.50m	

Product	Front Drive Townhomes Back-To-Back Townhome		
Townhomes	9.50 Menmum Rear Setback 2.50 Minimum Corner Setback 9.50 Front Setback	10.12 6.30 7.85 Front Setback 98	
Front Yard Setback	3.00m	3.00m	
	4.70m (for sensitive soils)	-	
Rear Yard	6.00m	-	
Setback	5.00m (abutting existing residential)	-	
Interior Side Yard Setback	1.20m	1.20m	
Corner Side Yard Setback	2.50m	2.50m	

Open Space. 7

As fundamental and valued elements of Minto Kanata North, parks, open spaces, and natural features will be strategically located to cater to the recreational needs of residents and visitors. Depending on final grading permissions, where appropriate, these open spaces will be embedded with Low Impact Development principles and practices such as swales, rain gardens, and permeable surfaces. The preserved woodlot and stormwater pond will provide additional open space and trails while adding to the overall diversity of the neighbourhood. Overall, parks, open spaces, and natural features will be publicly accessible, visible, and located along primary roads.

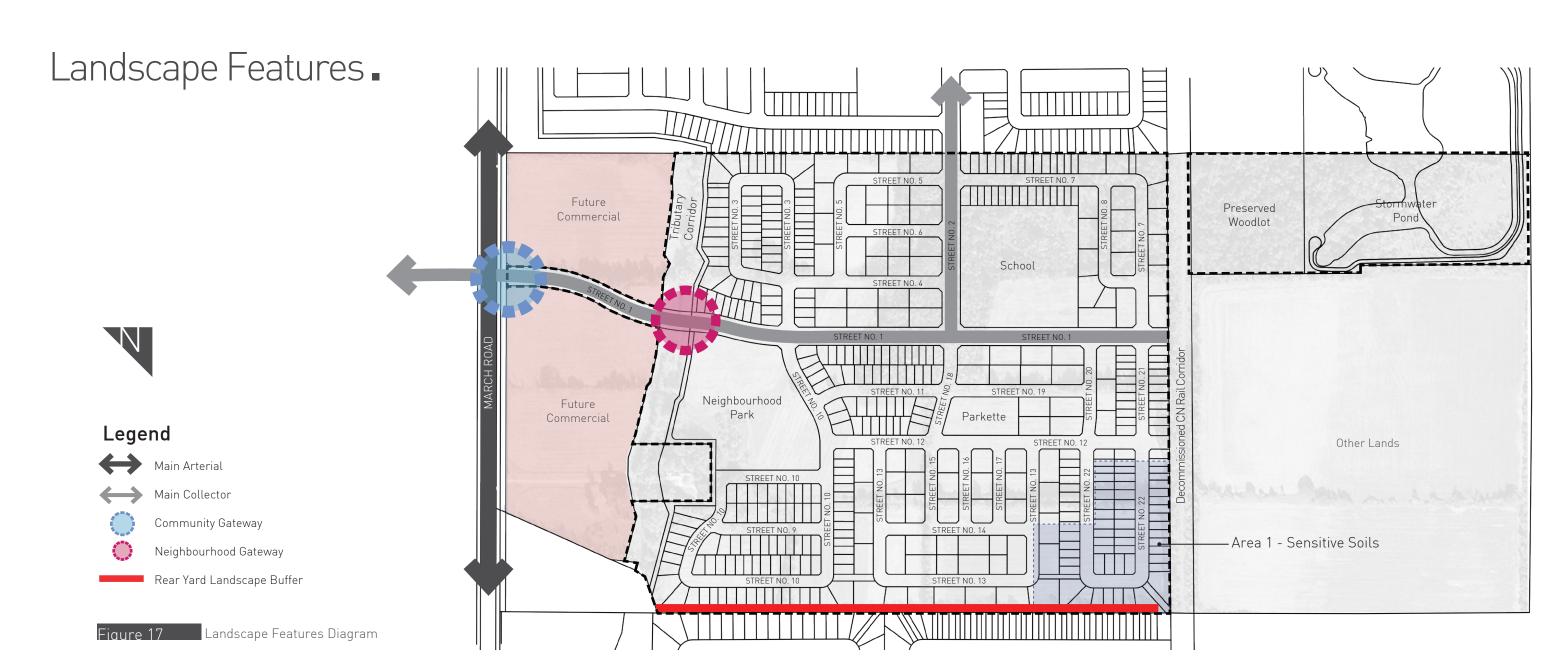
The parks are categorized into two typologies:

- Neighbourhood Park (1.20 3.20 ha) Active/passive park space with play equipment, shade structures, sports fields, multi-purpose courts, and seating
- Parkette (0.40 1.20 ha) Active/passive park space with small playground equipment and seating areas.



Kanata North - CDP Parks and Open Space Plan

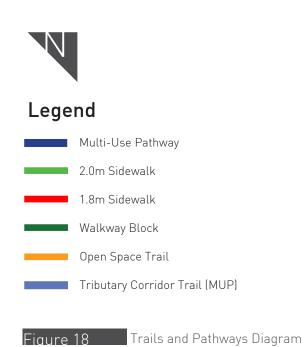








Pedestrian Typologies •











Neighbourhood Park Fit Plan .



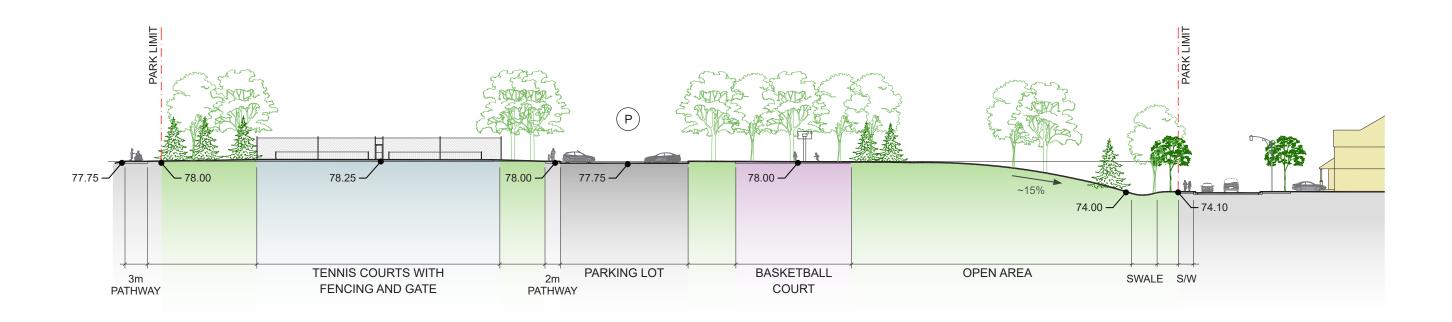
*Conceptual design subject to final detail design and grading

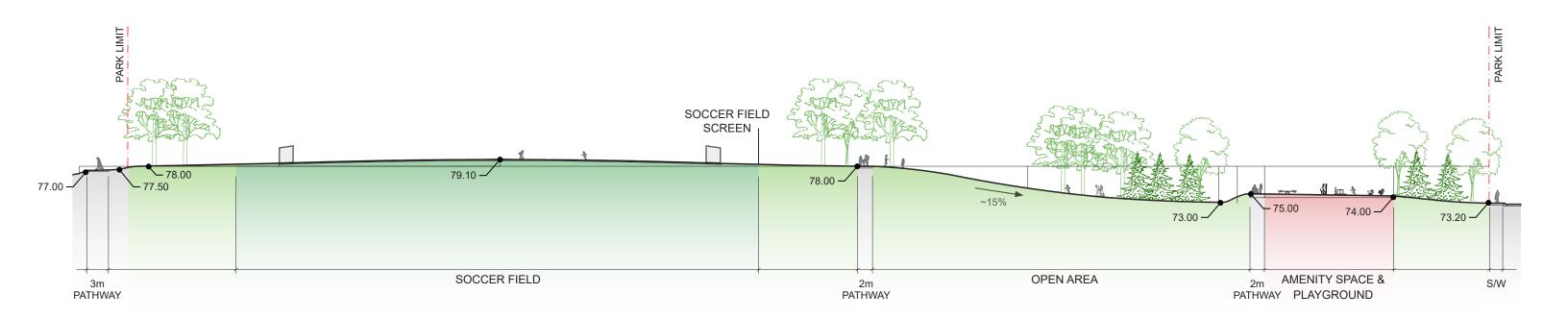






Neighbourhood Park Cross Sections .





Parkette Fit Plan.



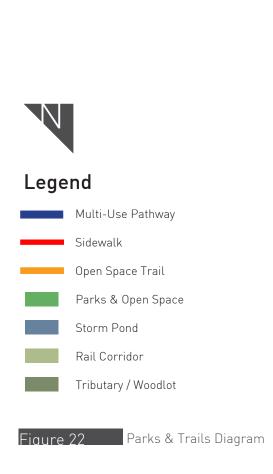
*Conceptual design subject to final detail design and grading







Park Programming Possibilities.





Potential Neighbourhood Park Programming

- Tennis Court (w. lights)
- Basketball Courts
- Intermediate Soccer Field
- Open Lawn / Area
- Playground
- Shade Shelter
- Benches / Seating
- Picnic Tables

- Bike Racks
- Waste Receptacles
- New Trees Planted
- Parking Lot

Potential Parkette Programming

- Open Lawn / Area
- Playground
- Benches / Seating
- Picnic Tables
- Bike Racks
- Waste Receptacles
- New Trees Planted

Rear Yard Buffer Section .



Figure 23 Rear Yard Buffer Section

Due to the existing neighbourhood to the south of Minto Kanata North, the CDP contains guidelines for appropriate transitions between new and existing neighbourhoods. Proposed residential blocks that abut the existing community will be provided with additional depth to accommodate a 6m landscape buffer for retention of an existing treed area, the health of which is to be confirmed by the EIS.



Tributary Corridor Section •

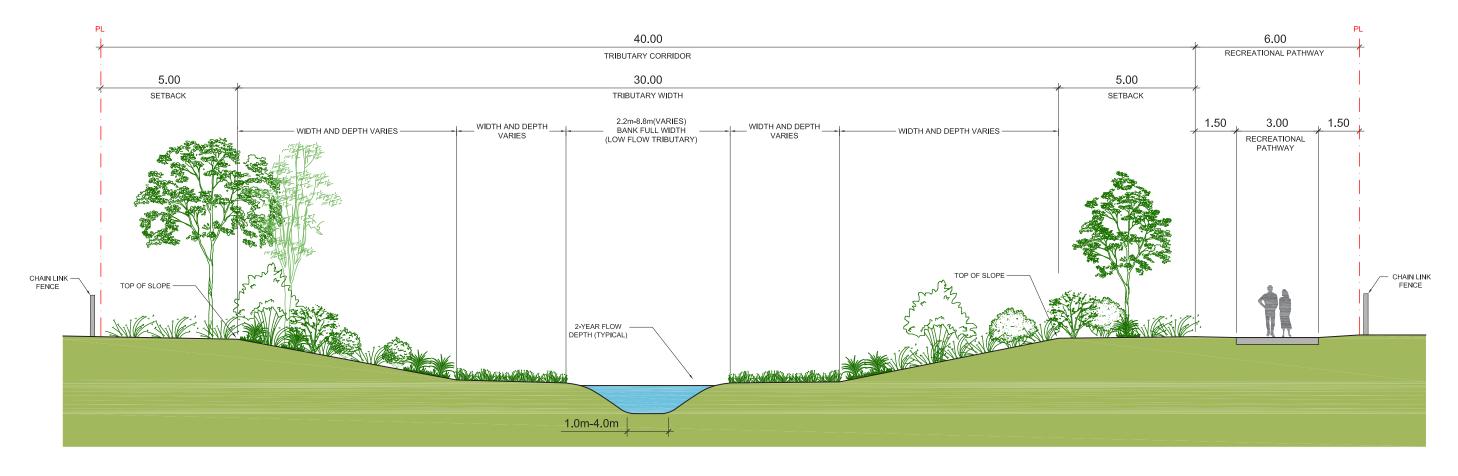
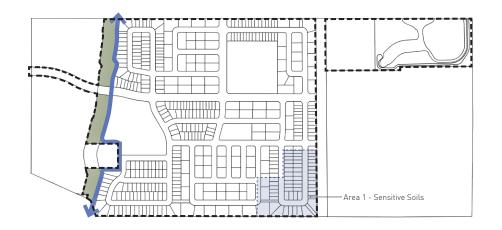


Figure 24 Tributary Corridor Section

Shirley's Brook Tributary 2 is designated as an Urban Natural Feature that runs north-south along the west side of the site. The 40.0m tributary corridor will include a selection of vegetation suitable to the conditions. As outlined in the CDP, just east of the tributary will be a 6.0m recreational pathway allowing for access and views to the natural feature. The corridor will also be directly accessible from the abutting neighbourhood park and various walkway blocks.

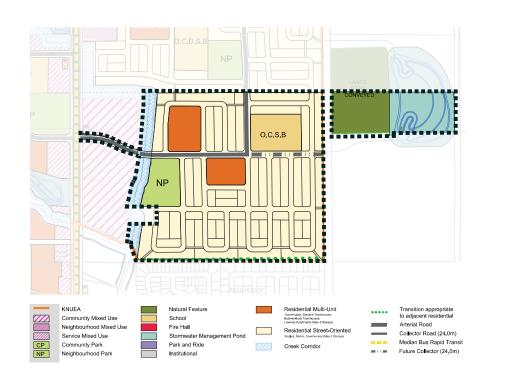


Road Network.

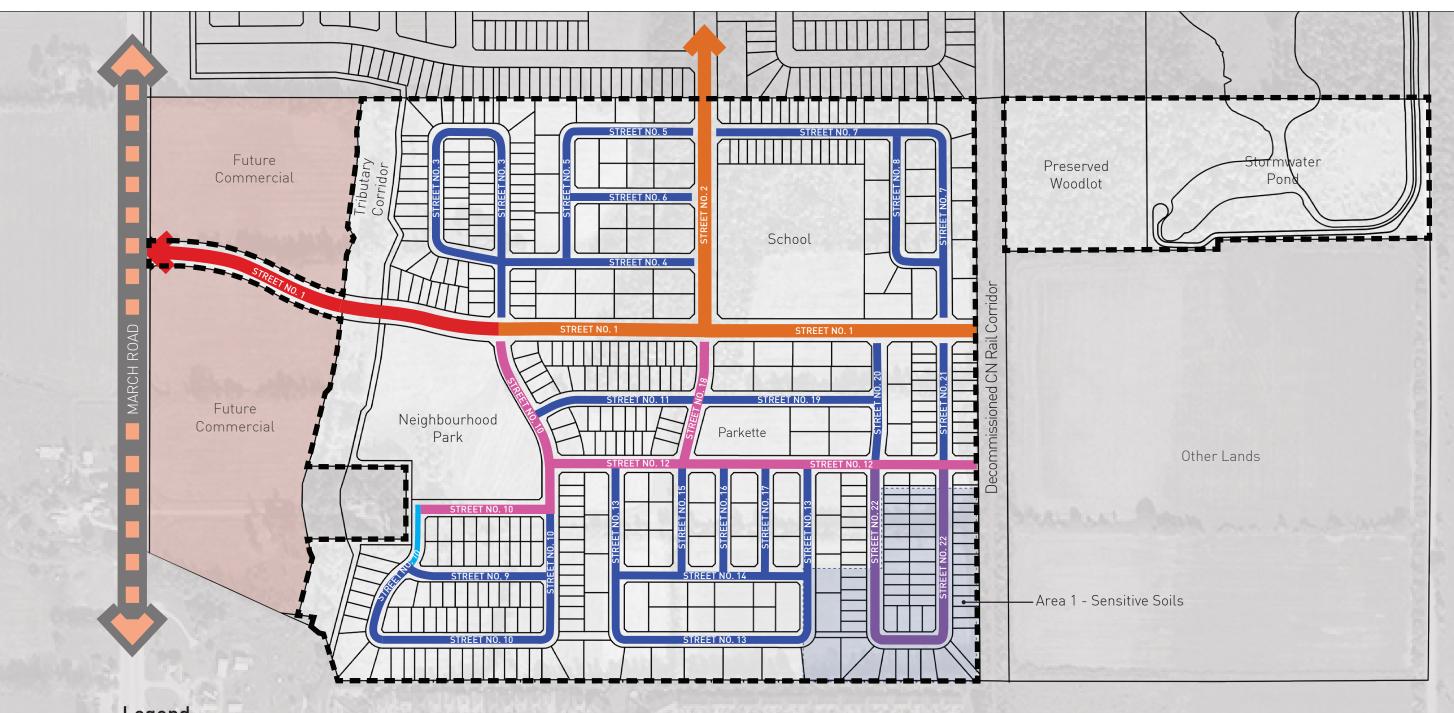


Minto Kanata North will consist of five road typologies that will improve overall connectivity and enhance the character of the neighbourhood. A 26.0m Major Neighbourhood Collector will serve as the main gateway between the residential area and March Road, and a 24.0m Minor Neighbourhood Collector will act as the main 'spine' through the development providing access to any future development north of the site and east of the decommissioned railway corridor. The 18.0m, 16.5m & 14.0m Local Roads will serve as connectors to the Minor Collector, their varying widths associated in response to their specific surroundings and environment. This network of roads will be functional for pedestrians, cyclists, and vehicles while providing terminating views and vistas towards parks and natural features.

As mentioned previously, running north-south along the March Road arterial will be the proposed Kanata North Transitway, a bus rapid transit corridor running between Klondike Road and the terminal Park & Ride Station north of the subject lands.



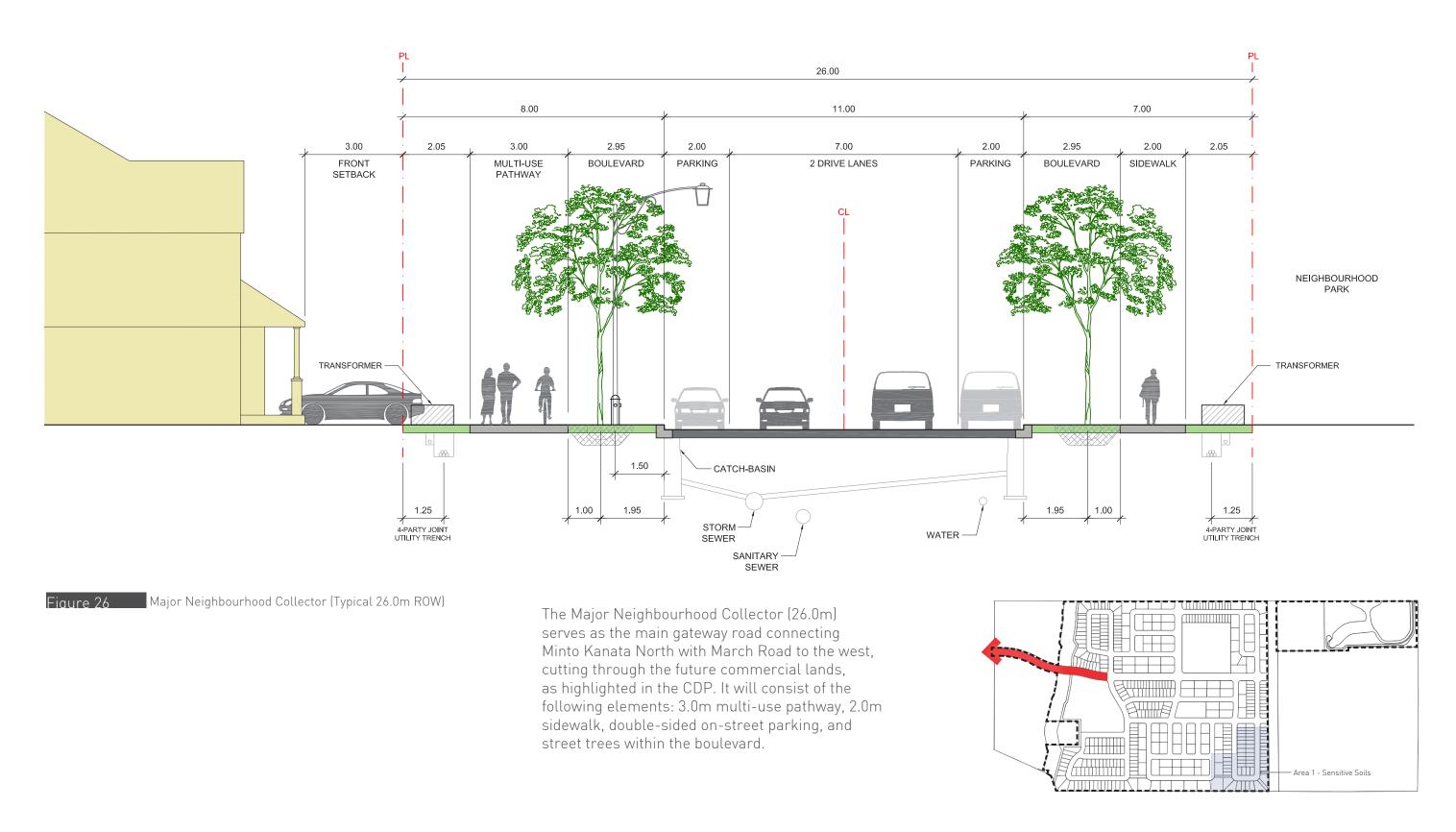
Kanata North - CDP Demonstration Plan



Legend

26.0m Major Collector Road
24.0m Minor Collector Road
18.0m Local Road - Area 1
18.0m Local Road - Area 2
16.5m Local Road
14.0m Local Road
Proposed Bus Rapid Transit Route

Major Neighbourhood Collector Section (26.0m ROW).



Minor Neighbourhood Collector Section (24.0m ROW) .

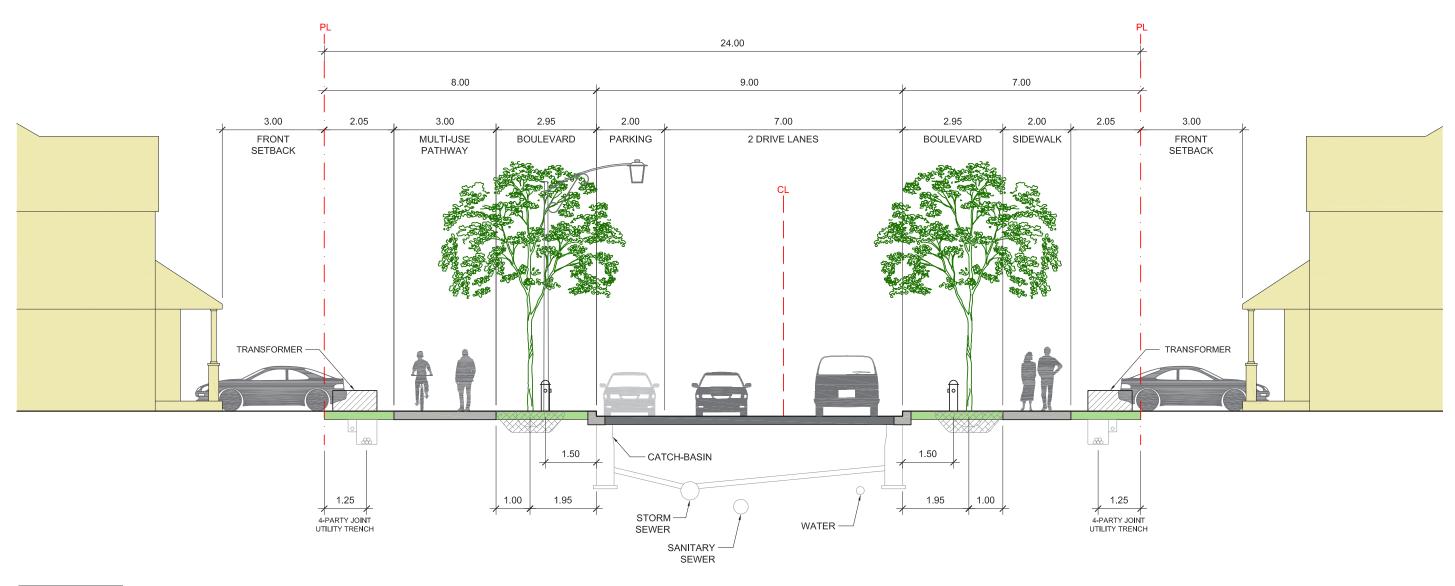


Figure 27 Minor Neighbourhood Collector (Typical 24.0m ROW)

The Minor Neighbourhood Collector (24.0m) serves as the primary thoroughfare connecting the 26.0m Major Collector to the decommissioned CN rail corridor on the east, as well as the future residential development (Valecraft Homes) to the north, as highlighted in the CDP. The 24.0m Minor Collector will be fronted and flanked onto by a mix of single-detached houses and front drive townhomes. It will consist of the following elements: 3.0m multi-use pathway, 2.0m sidewalk, single-sided on-street parking, and street trees within the boulevard.



Local Road Section (18.0m ROW).

Area 1 - High Plasticity Soils

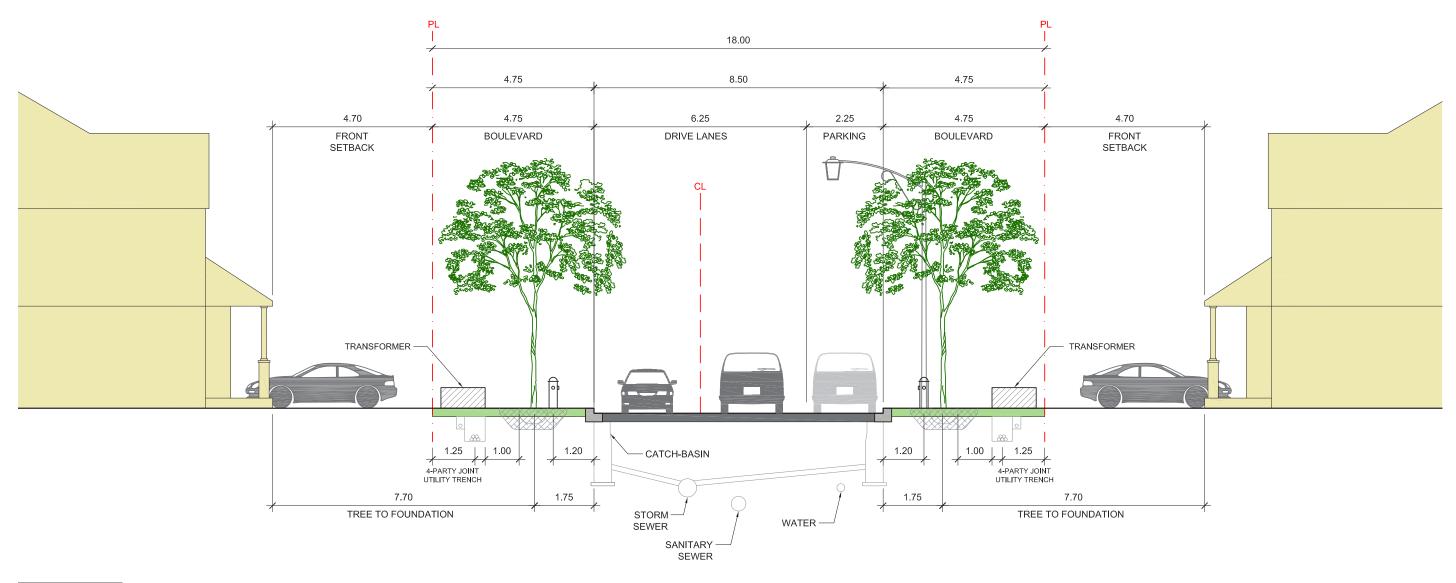


Figure 28 Local Road (Typical 18.0m ROW - Area 1)

A Local Road (18.0m) without sidewalk will serve as the primary street within Area 1, the portion of the site containing high plasticity soils. This extra width, along with a 4.70m front setback, will allow for significant tree growth to take place (7.70m tree to foundation separation). The Local Road (18.0m) - Area 1 will consist of the following elements: single-sided on-street parking and street trees within the boulevard.



Local Road Section (18.0m ROW).

Area 2 - Low to Medium Plasticity Soils

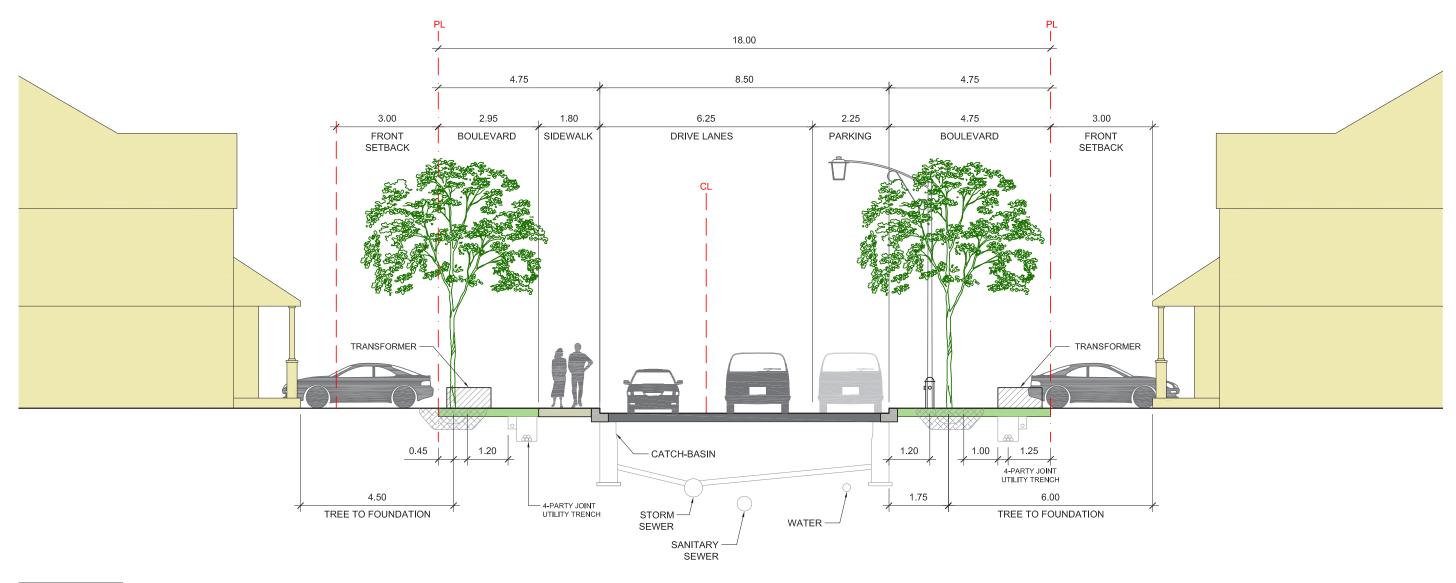


Figure 29 Local Road (Typical 18.0m ROW - Area 2)

Within Area 2, the Local Road (18.0m) with sidewalks will serve as the primary local roads within the neighbourhood, providing residents a safe means of connecting to all trails, parks, and open spaces. The Local Road (18.0m) Area 2 will consist of the following elements: single-sided onstreet parking, street trees within the boulevard, and a 1.8m single curb-face sidewalk.



Local Road Section (16.5m ROW).

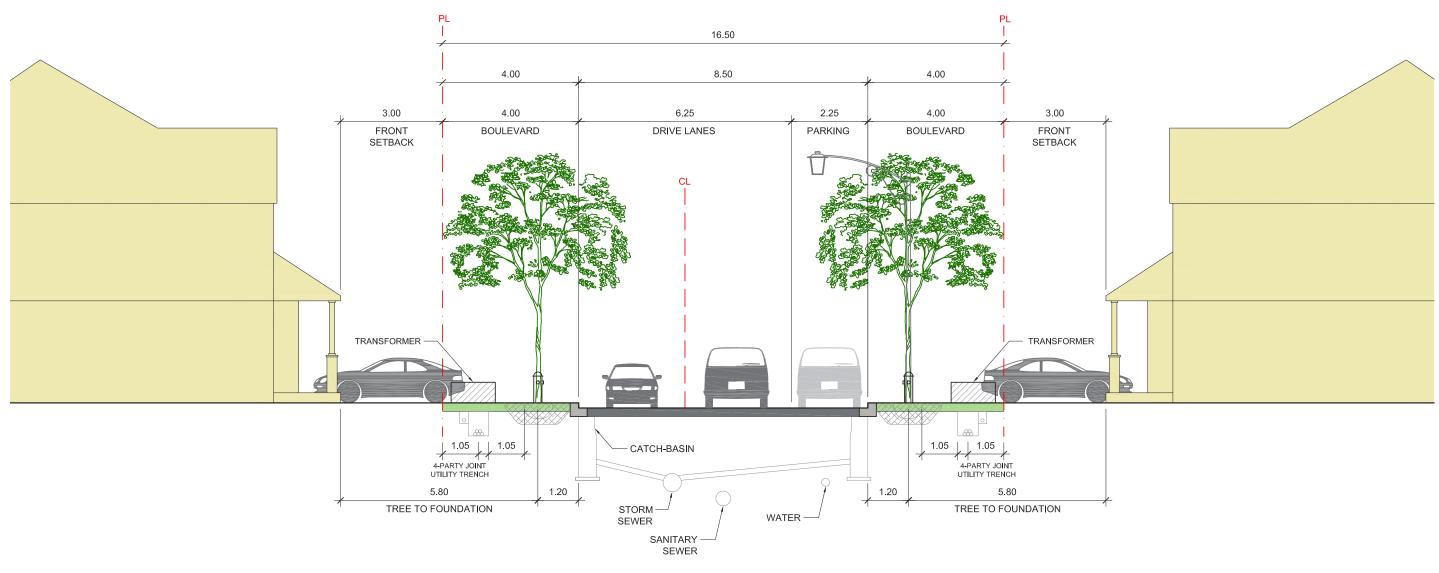
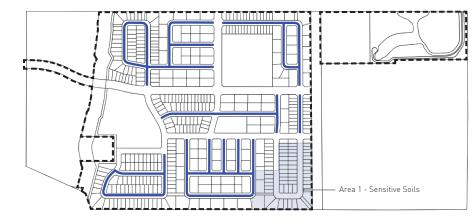


Figure 30 Local Road (Typical 16.5m ROW)

The Local Roads (16.5m) will also serve as a secondary right-of-way within the neighbourhood. As highlighted in the CDP, these streets will further improve connectivity to the neighbourhood's parks, open spaces, and school site, and future development to the east of the subject site. The Local Road (16.5m) will consist of the following elements: single-sided on-street parking and street trees.



Local Road Section (14.0m ROW).

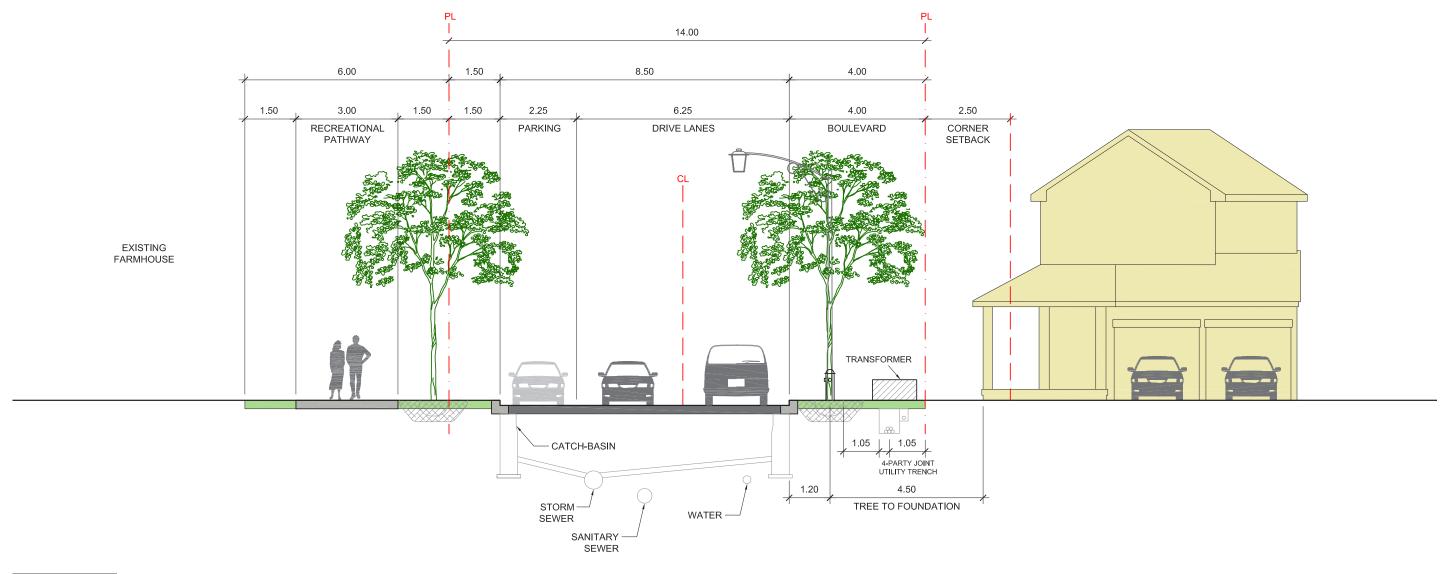


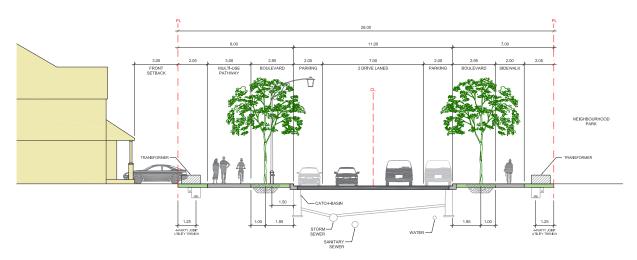
Figure 31 Local Road (Typical 14.0m ROW)

The Local Road (14.0m) serves as a short window street along the western edge of the site, connecting residents in the south to the neighbourhood park. Flanked by an existing farmhouse and the tributary corridor recreational pathway to the west, with single-detached homes to the east, it will consist of the following elements: single-sided on-street parking and street trees within the boulevard on one side.

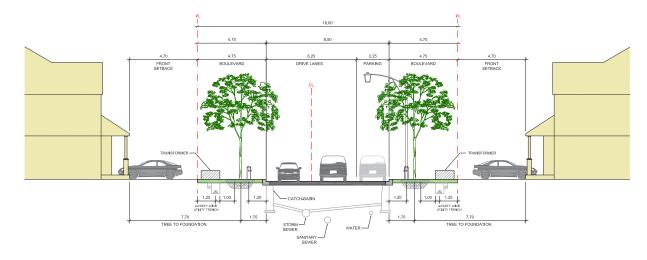


Road Network Summary.

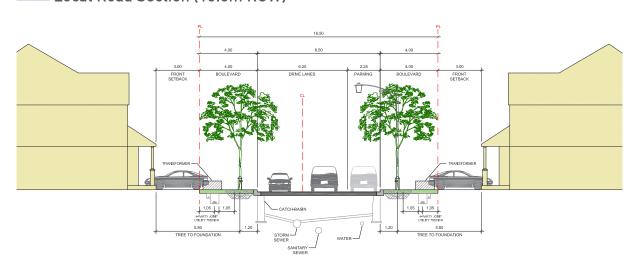
Major Neighbourhood Collector Section (26.0m ROW)



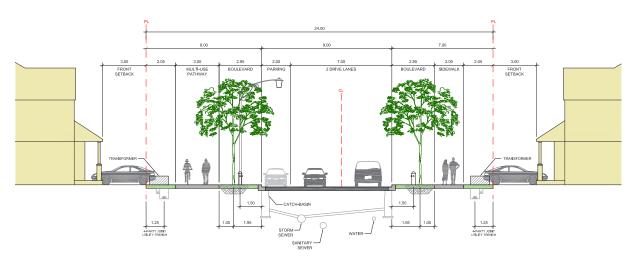
Local Road Section (18.0m ROW - Area 1)



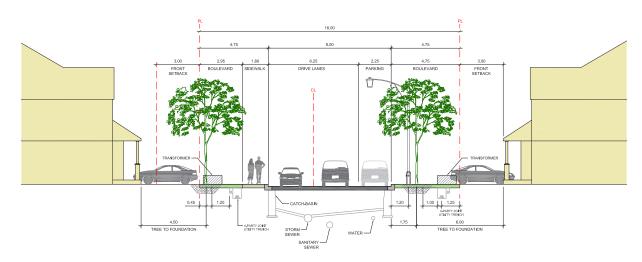
Local Road Section (16.5m ROW)



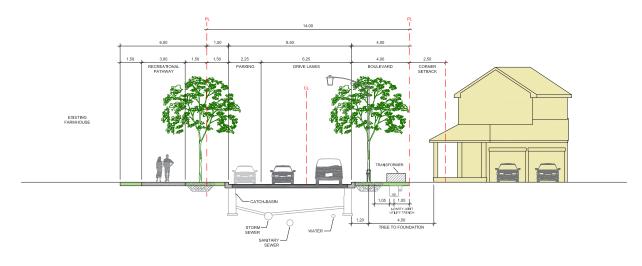
Minor Neighbourhood Collector Section (24.0m ROW)



Local Road Section (18.0m ROW - Area 2)



Local Road Section (14.0m ROW)



Local Road (16.5m ROW) Street Tree Demonstration

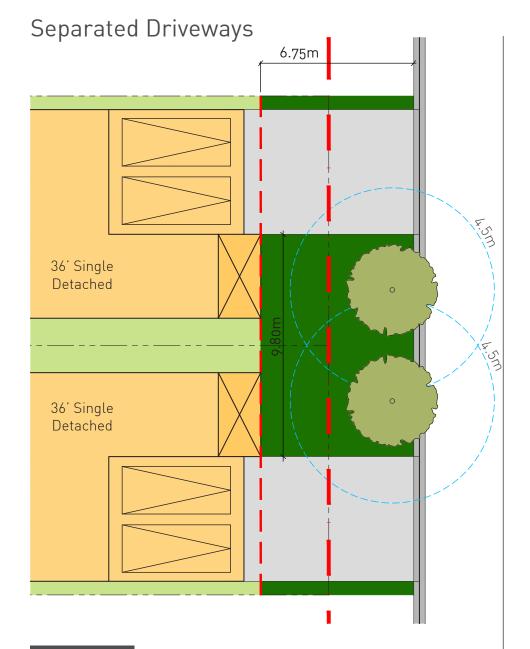
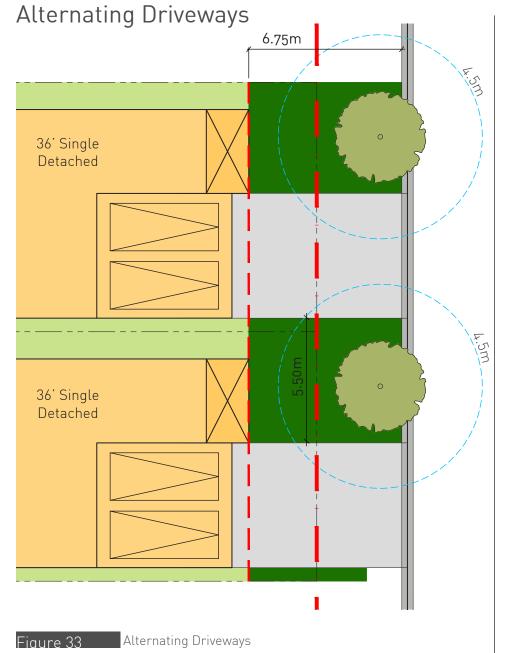


Figure 32 Separated Driveways

Length: 9.80m Width: 6.75m Depth: 1.50m Soil Volume

99.2_{m³}



Length: 5.50m

Width: 6.75m

Depth: 1.50m

55.7_{m³} Soil Volume

Front Drive Townhomes

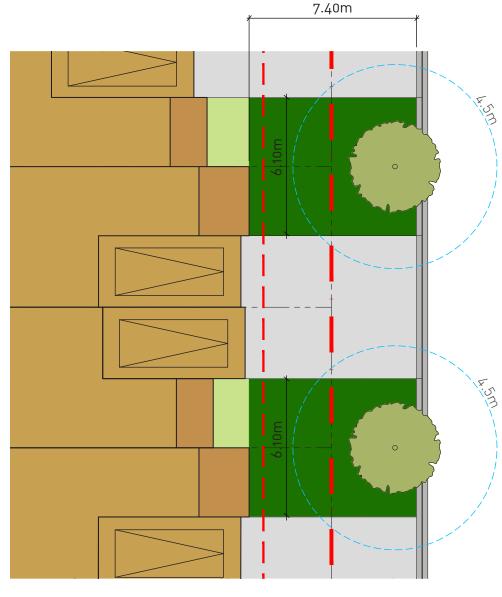


Figure 34 Paired Driveways

Length: 6.10m Width: 7.40m

67.7_{m³} Soil Volume

Depth: 1.50m

^{*}Minimum soil volume required for medium sized trees = 30m³ **Final streetscape design to be completed at the detail design stage

Local Road (18.0m ROW) Street Tree Demonstration

Area 1 - High Plasticity Soils

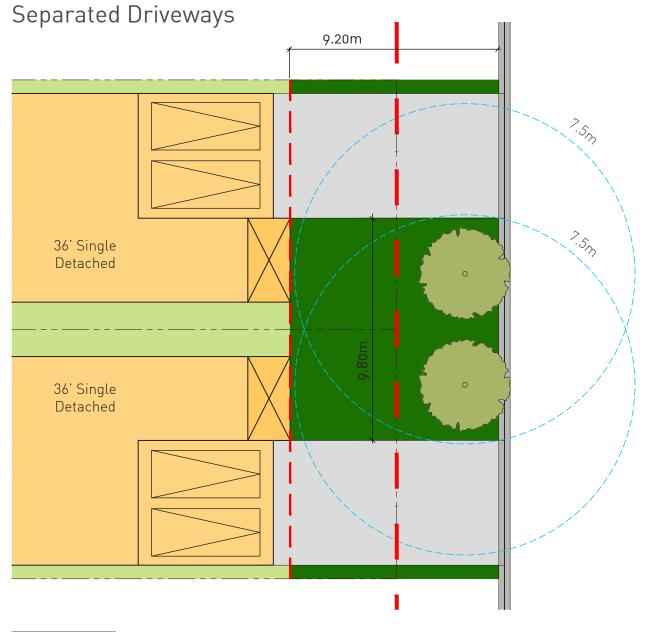
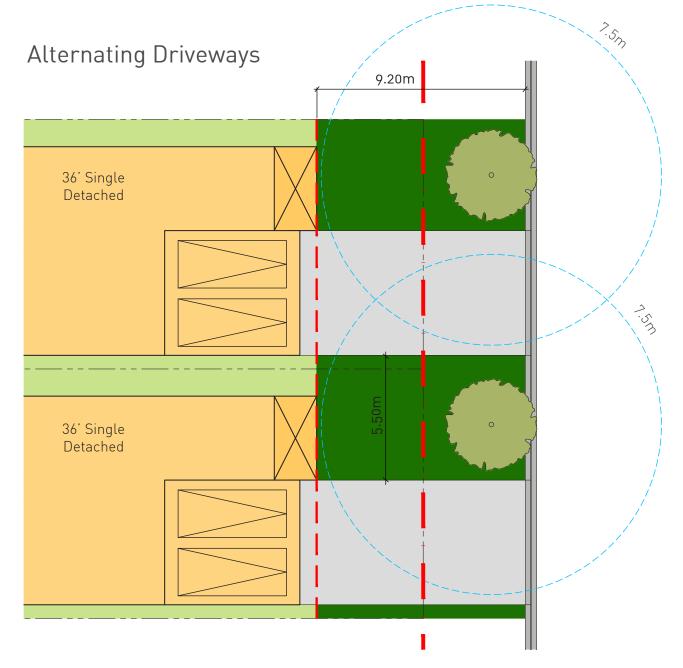


Figure 35 Separated Driveways

Width: 9.20m

Length: 9.80m 135.2_{m³} Soil Volume

Depth: 1.50m



Alternating Driveways

Length: 5.50m

Width: 9.20m

Depth: 1.50m

75.9_{m³}

Soil Volume

Local Road (18.0m ROW) Street Tree Demonstration .

Area 2 - Low to Medium Plasticity Soils

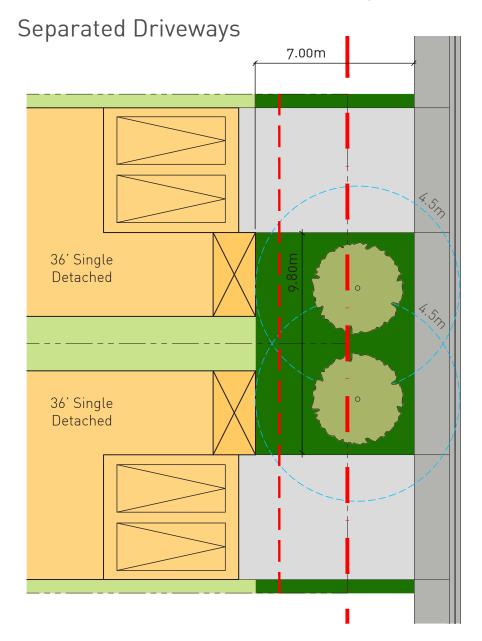
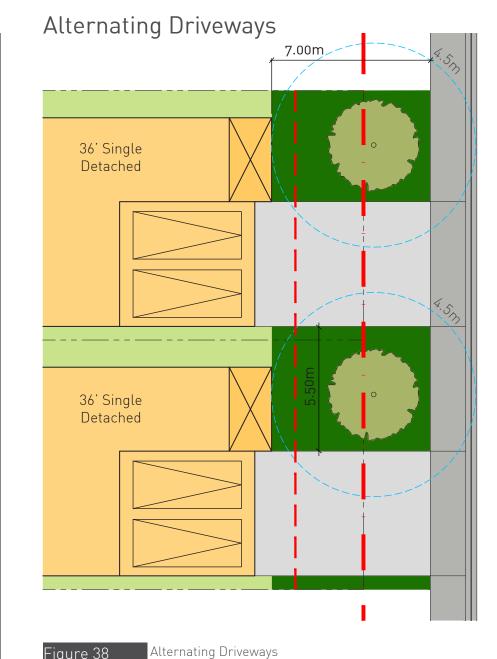


Figure 37 Separated Driveways

Length: 9.80m Width: 7.00m Depth: 1.50m 102.9_{m³}



-idure 38 Alternating Drivew

Length: 5.50m Width: 7.00m Depth: 1.50m

57.8_{m³}

Front Drive Townhomes

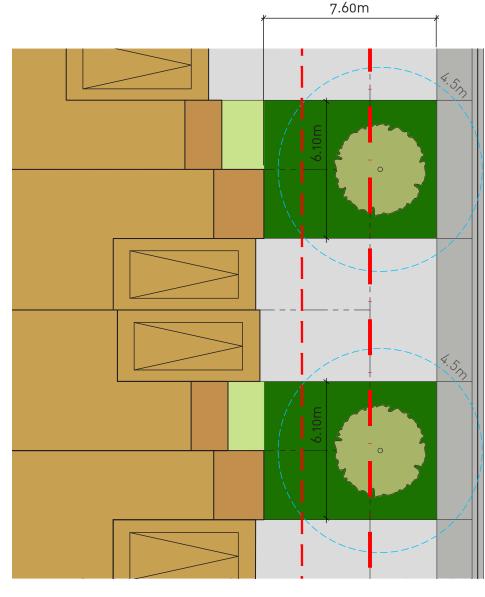


Figure 39 Paired Driveways

Length: 6.10m Width: 7.60m

69.5_{m³}

Depth: 1.50m

^{*}Minimum soil volume required for medium sized trees = 30m³
**Final streetscape design to be completed at the detail design stage

Local Road (16.5m ROW) Parking Demonstration •

Single-Detached Streetscape

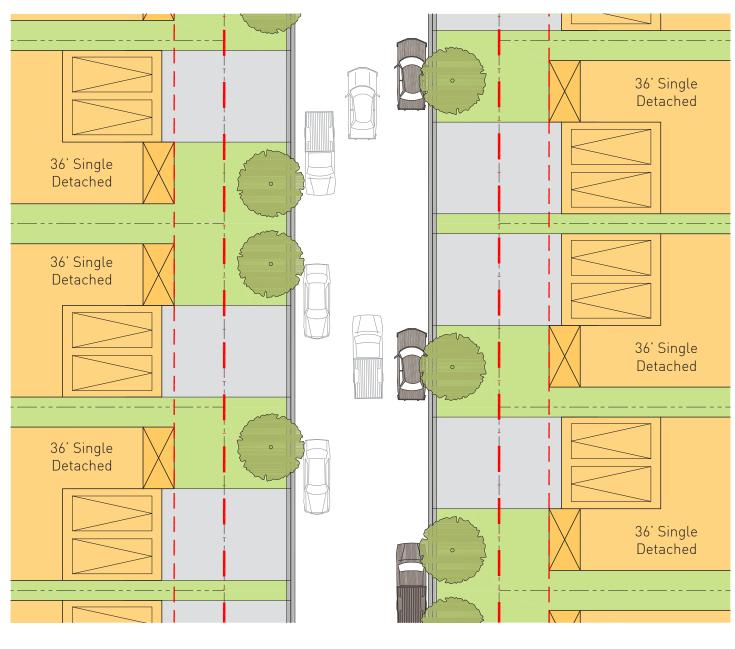


Figure 40 Single-Detached On-Street Parking Configuration

Front Drive Townhomes Streetscape

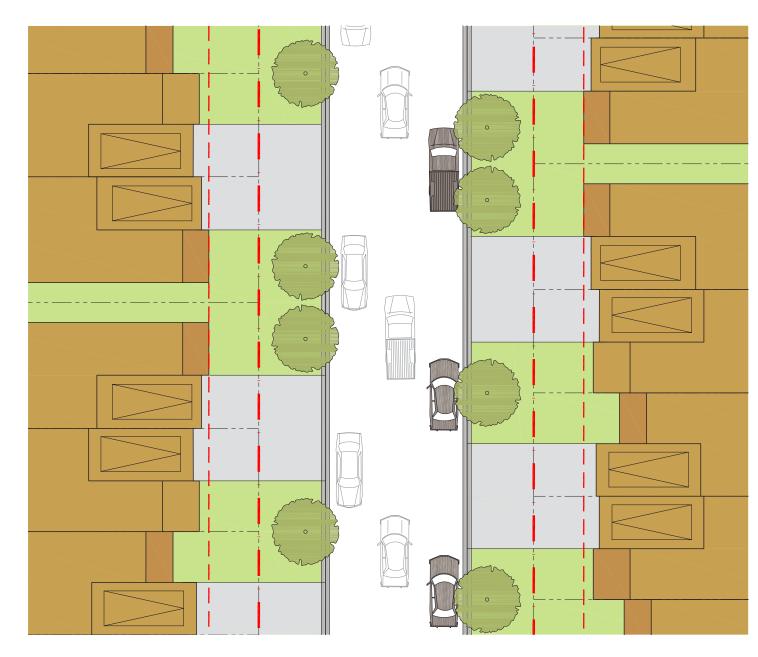


Figure 41 Front Drive Townhomes On-Street Parking Configuration

Local Road (18.0m ROW) Parking Demonstration •

Single-Detached Streetscape

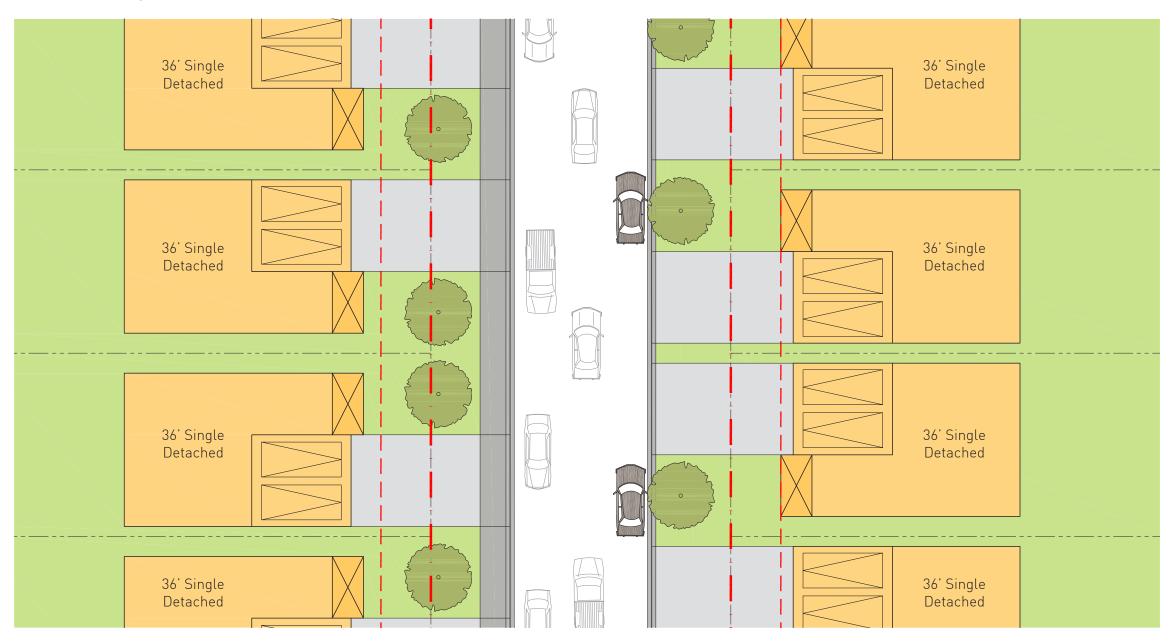


Figure 42 Single-Detached On-Street Parking Configuration

Parking Plan.



