# Kanala North

# Concept Plan.

Fourth Submission. November 2020.

> 2559688 Ontario Inc. minto Communities



PREPARED FOR



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#### Section A. Context & Analysis





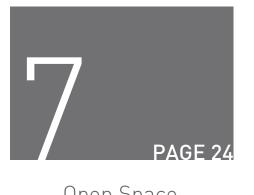
#### Section B. Neighbourhood Design



Vision & Design Principles.



Neighbourhood Master Plan.



Open Space.



Road Network.



Site Analysis.



Built Form.



# Context & Analysis. Section A.

Kanata Context.



3 Site Analysis.

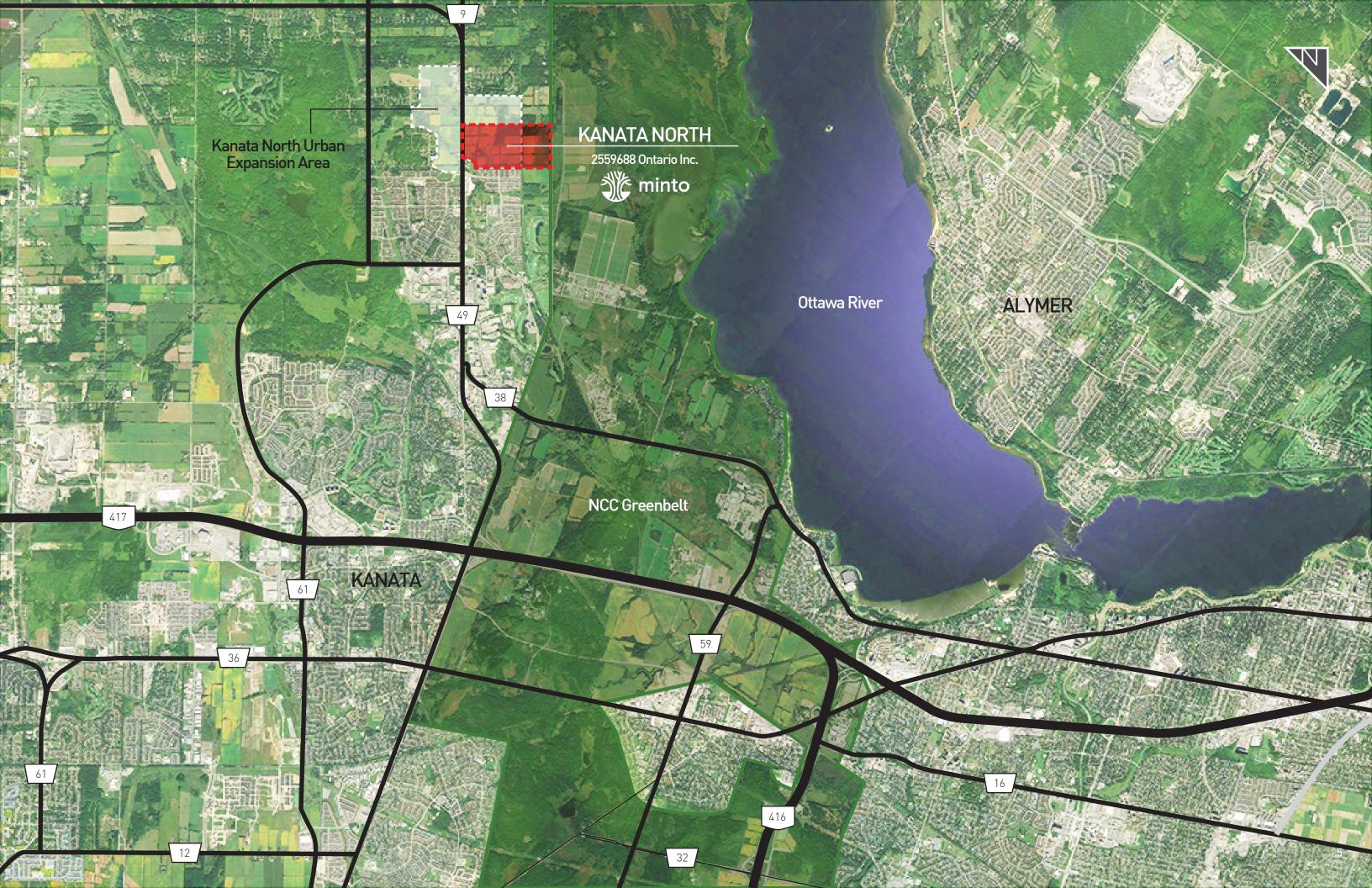
As one of the largest suburbs of Ottawa, Kanata is experiencing an increased demand for residential development. In order to accommodate and plan for the projected growth Kanata and other suburbs within Ottawa will experience, the City has designated 11 areas as Urban Expansion Study Areas. One of these 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.

#### Kanata Context.





Kanata Context Map Figure 1



## 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.

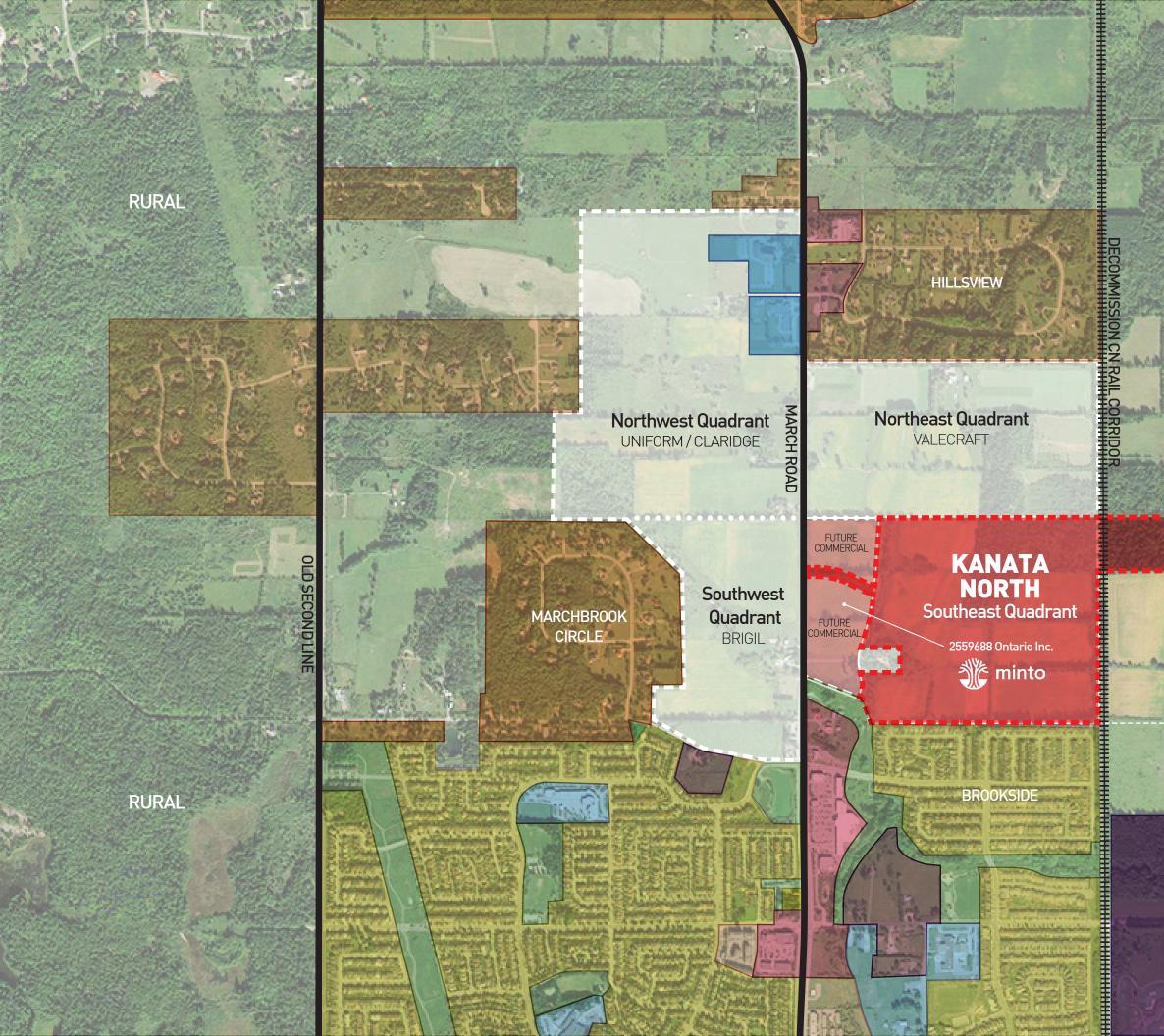


#### Legend

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

Fiaure 2

Kanata North Context Map





#### NCC GREENBELT

#### Area Summary

MARCH VALLEY

Kanata North Urban Expansion Area 181.0ha (447.6ac)

Minto Communities 48.2ha (119.2ac) 6.9ha (17.0ac) Outside the Urban Boundary

> 2559688 Ontario Inc. **9.4ha (23.1ac)**

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.

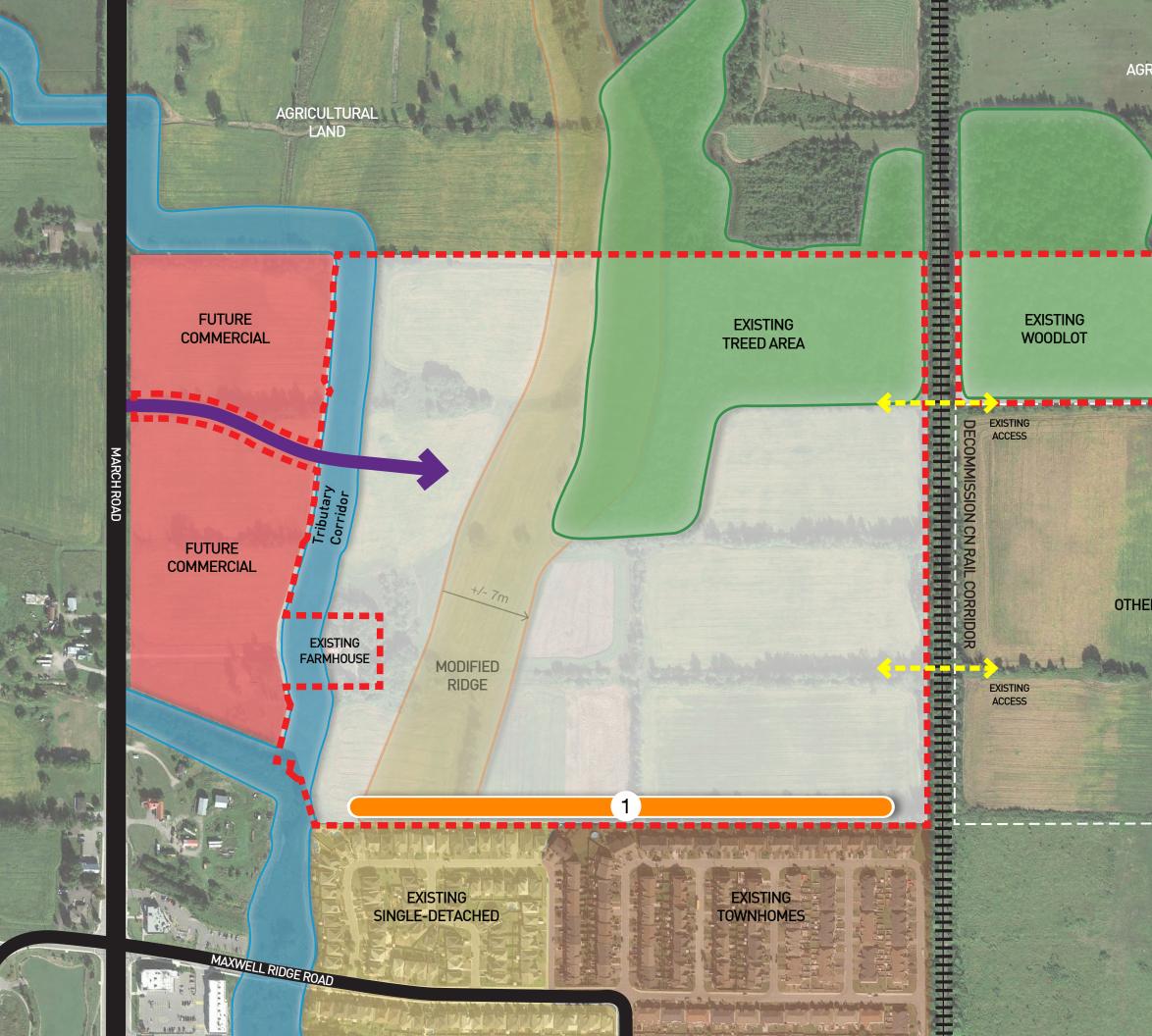
A portion of the Shirley's Brook Tributary 2 runs north-south along the western edge of the site. This corridor, which will be conveyed to the City through the plan of subdivision approval, is designated as an Urban Natural Feature within the City of Ottawa's Official Plan. Due to its classification 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.

# Site Analysis.

#### Legend

Existing Woodlot / Treed Area
Tributary Corridor
Future Commercial
Existing Single-Detached
Existing Townhomes
Subject Site
Decommissioned CN Rail Corridor
Major Roads
Neighbourhood Entry Road
Existing Access
Adjacent Existing Residential



AGRICULTURAL LAND



#### OTHER LANDS

NCC GREENBELT

+ LP

MARCH VALLEY

			_	
2				
				1-2010
- 19	199			
	112	1	1	



# Neighbourhood Design. Section B.

- 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.





Offer housing types and forms that are consistent with the surrounding neighbourhoods and entire Kanata North Community **Compatibility of B** 

Strategically place parks and open spaces within the neighbourhood that will benefit all residents

# Accessible Open Space

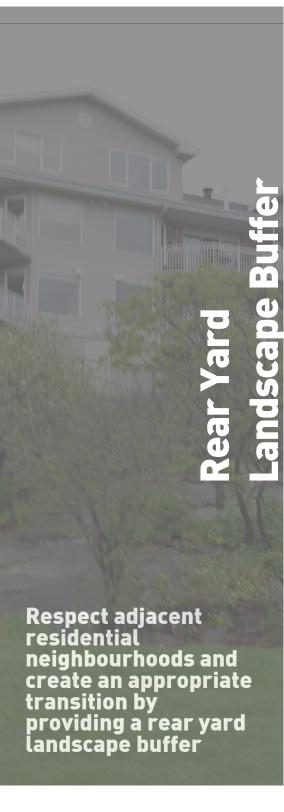
menities Neighbourhood Provide a variety of outdoor spaces and community features to facilitate a healthy

environment

Create a network of pathways and linkages throughout the neighbourhood that connect key features



**Strong Street Presence &** 



# 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.





Legend

Kanata North Master Plan



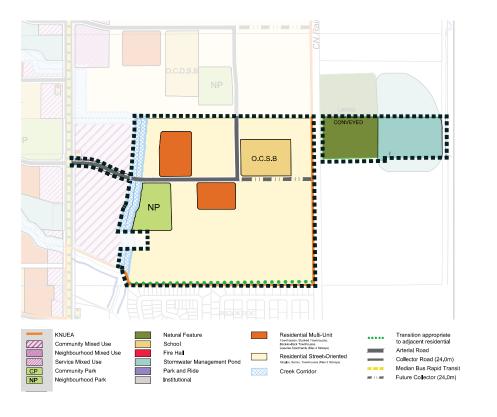
Stormwater Pond (4.48 Ha / 11.07 Ac)

OTHER LANDS

Area 1 - Sensitive Soils

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.

with the CDP.



## Built Form 6

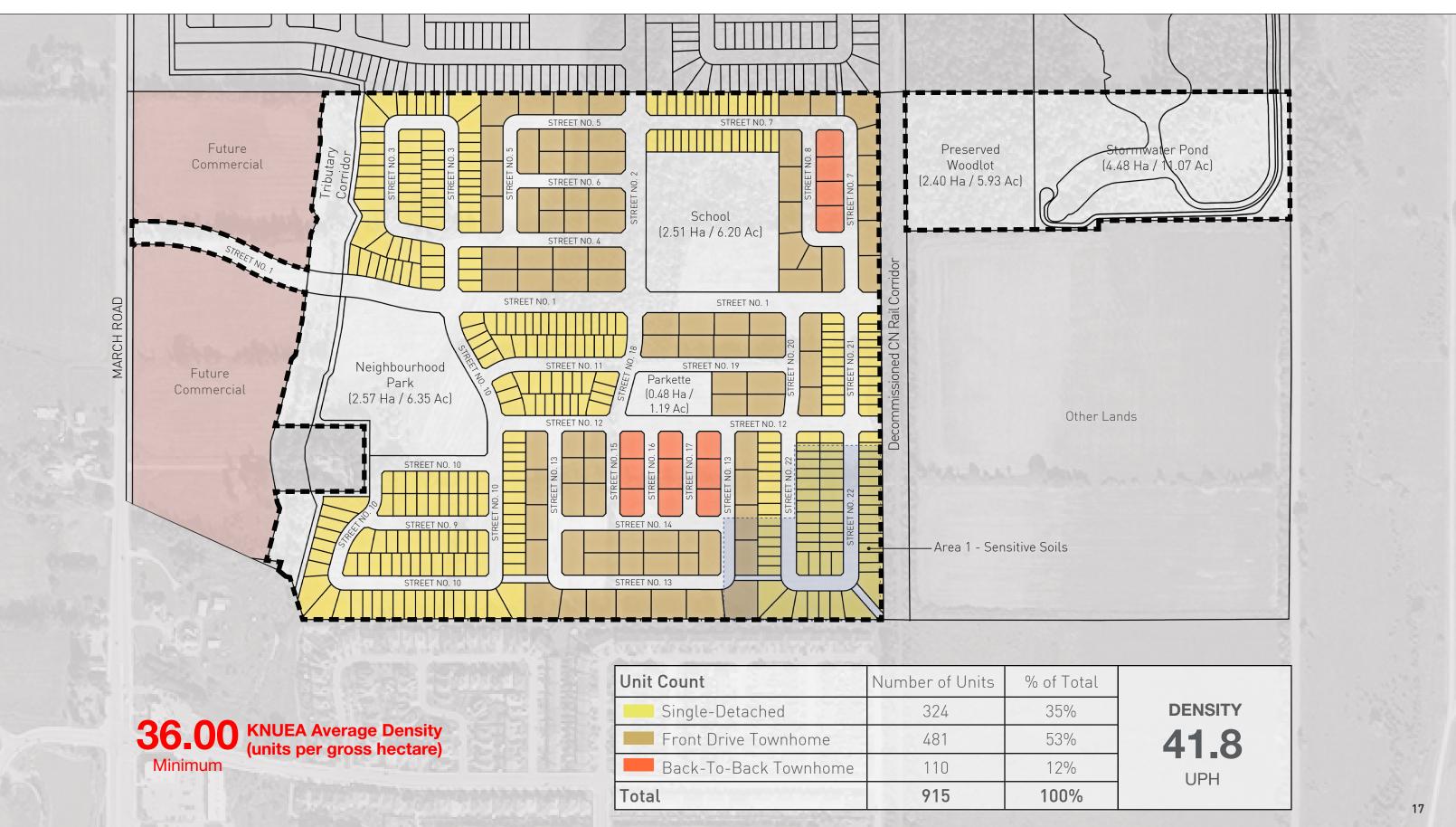


The subject lands will also contain a 2.51 hectare school site, a 2.57 hectare neighbourhood park, and a smaller 0.48 hectare parkette, all of which are of acceptable size and in conformance

Kanata North - CDP Land Use Plan



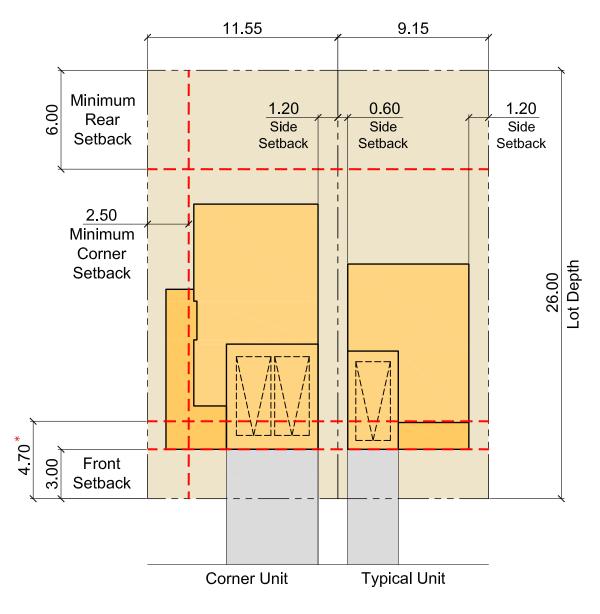




<b>36.00</b>	KNUEA Average Density
Minimum	(units per gross hectare)

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

#### 30' Single-Detached Home



\* 4.7m Front Setback For Sensitive Soils

**\*\*** 5.0m Rear Yard Setback For Lots Abutting Existing Residential





Traditional Style

Fiaure 7

Fiaure 6

30' Single-Detached Home Lotting Standard and Measurements

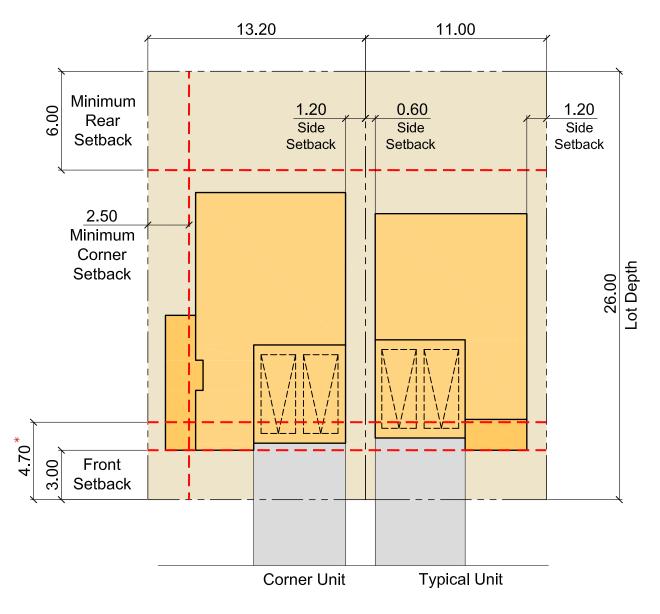
18

Traditional Style

Contemporary Corner Product

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



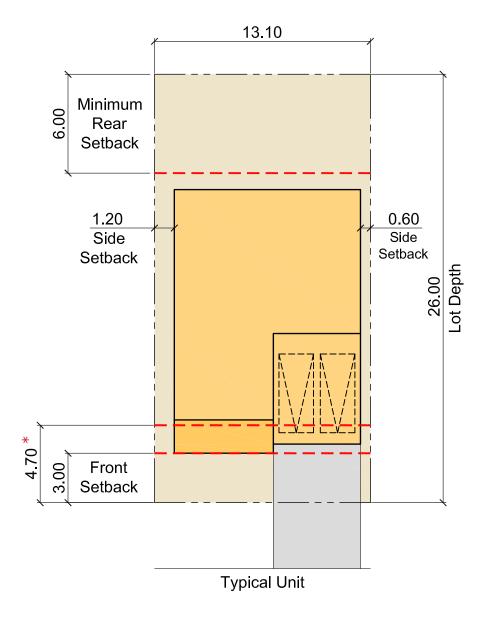


Traditional Style

Contemporary Style

Traditional Corner Product

#### 43' Single-Detached Home



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





Traditional Style

Fiaure 11

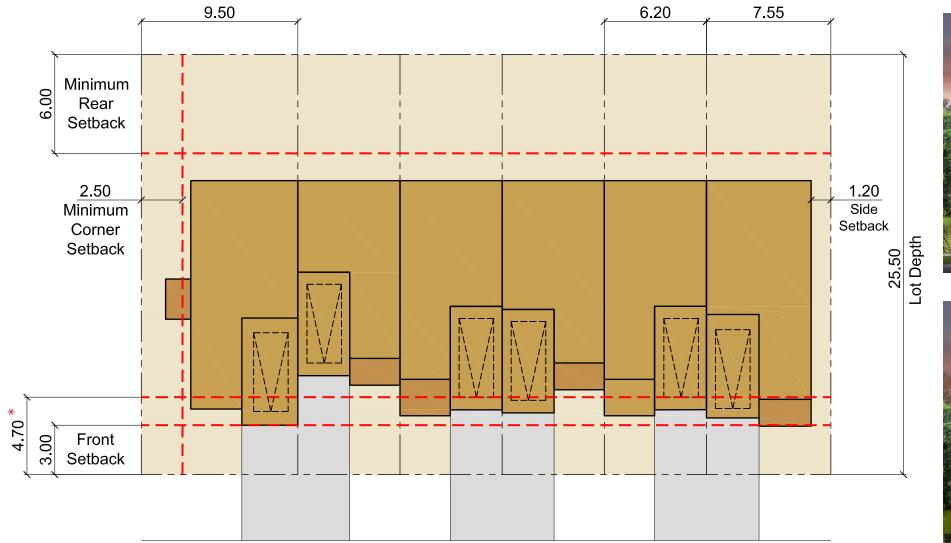
Figure 10 43' Single-Detached Home Lotting Standard and Measurements

Conceptual Architectural Renderings - 43' Single-Detached Home

Traditional Style

Contemporary Style

#### Front Drive Townhome





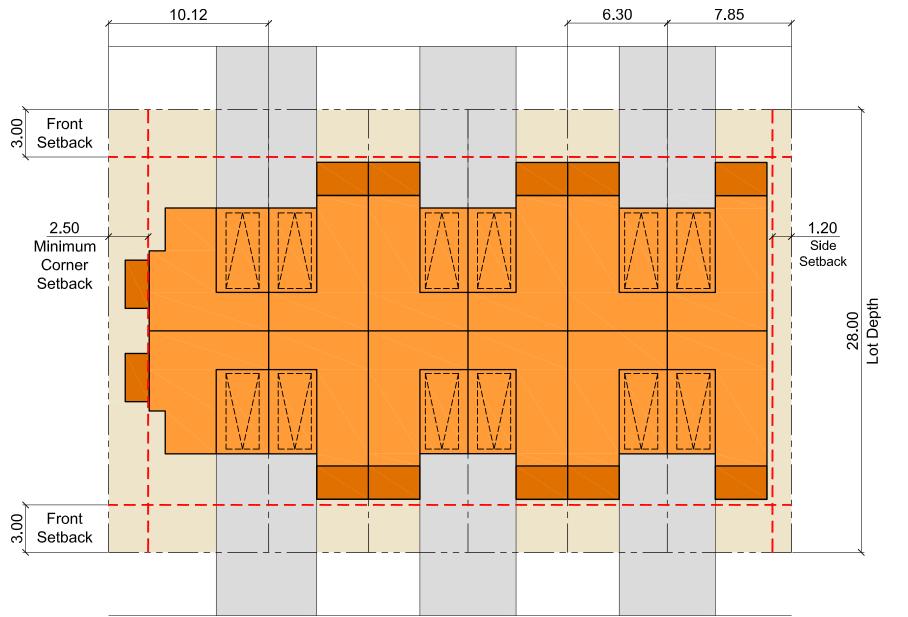


\* 4.7m Front Setback For Sensitive Soils

**\*\*** 5.0m Rear Yard Setback For Lots Abutting Existing Residential

Contemporary Style

#### Back-To-Back Townhome

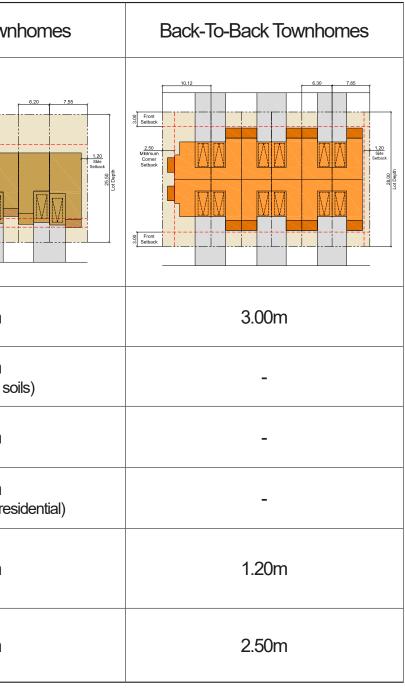




Traditional Style

#### Setback Summary .

Product	30' Singles	36' Singles	43' Singles	Product	Front Drive Town
Single-Detached	Protection of the second secon	Bethack Setback Setback Setback Setback Setback Setback Setback Setback Corner Unit Typical Unit	13.10 Minimum Rear Setback 1.20 Side Setback 1.20 Side Setback 1.20 Side Setback Typical Unit	Townhomes	9.50 Minimum Rear Setback 2.50 Minimum Comer Setback Front
Front Yard Setback	3.00m	3.00m	3.00m	Front Yard	3.00m
	4.70m (for sensitive soils)	4.70m (for sensitive soils)	4.70m (for sensitive soils)	Setback	4.70m (for sensitive so
Rear Yard Setback	6.00m	6.00m	6.00m	Rear Yard	6.00m
	5.00m (abutting existing residential)	5.00m (abutting existing residential)	5.00m (abutting existing residential)	Setback	5.00m (abutting existing res
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)	Interior Side Yard Setback	1.20m
Corner Side Yard Setback	2.50m	2.50m	2.50m	Corner Side Yard Setback	2.50m



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:

- areas.



1

# Open Space 7

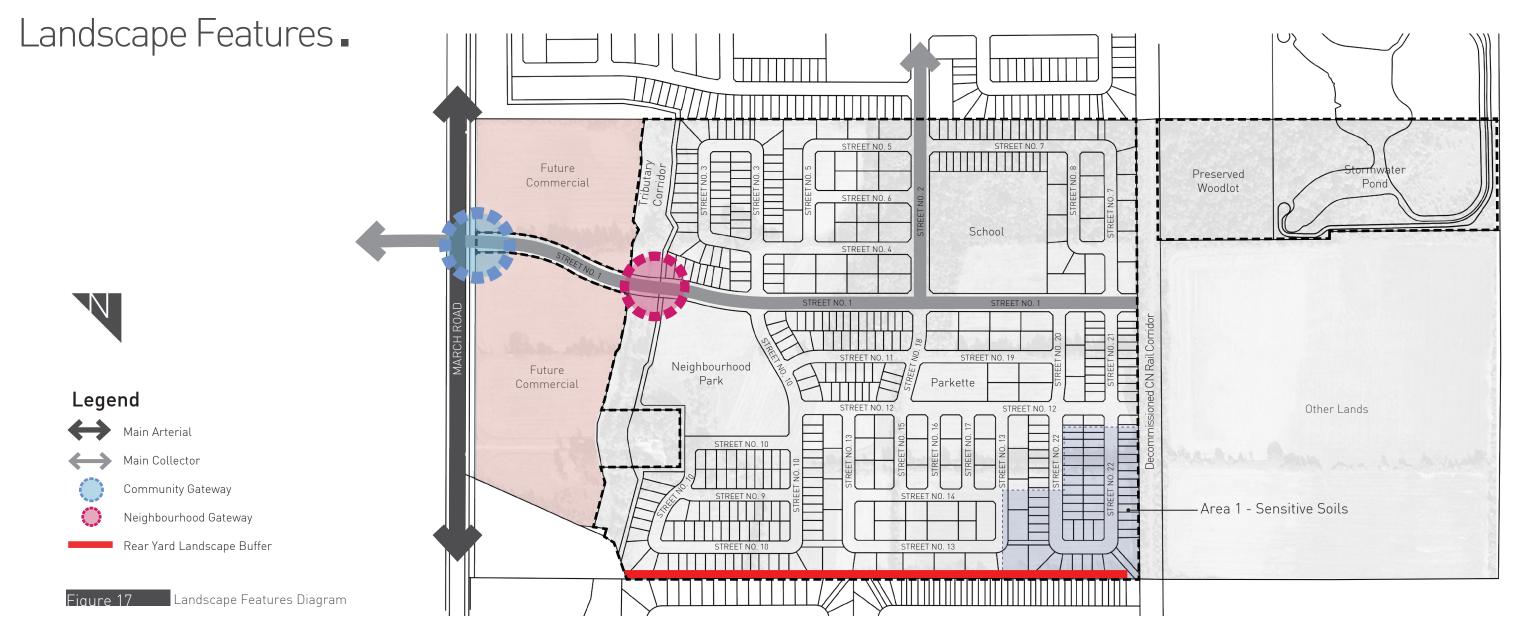


• Neighbourhood Park (1.20 - 3.20 ha) - Active/passive park space with play equipment, shade structures, sports fields, multi-purpose courts, and seating

• 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









Community Gateway

#### Pedestrian Typologies .





Figure 18 Trails and Pathways Diagram



Neighbourhood Sidewalk





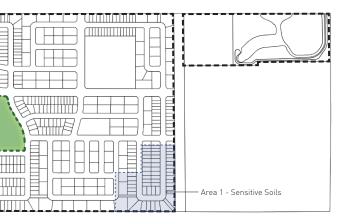
#### Neighbourhood Park Fit Plan



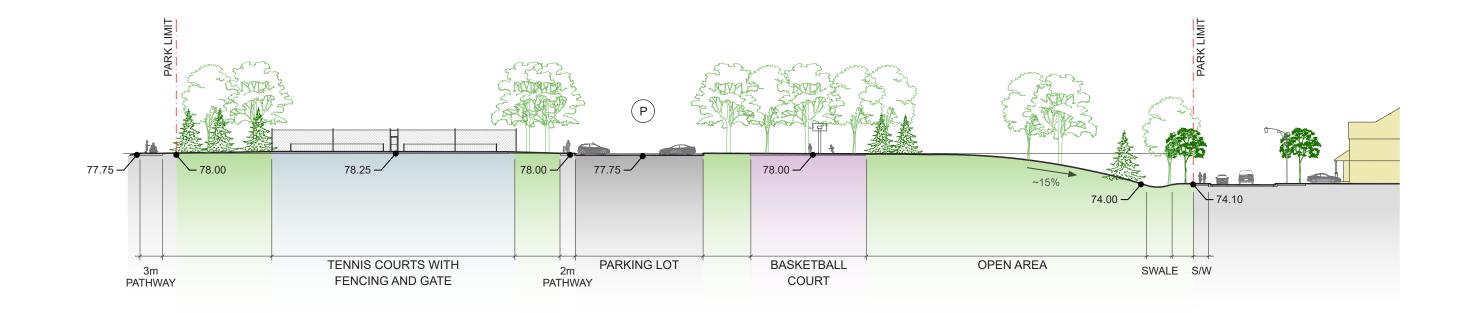
Conceptual design subject to final detail design and grading

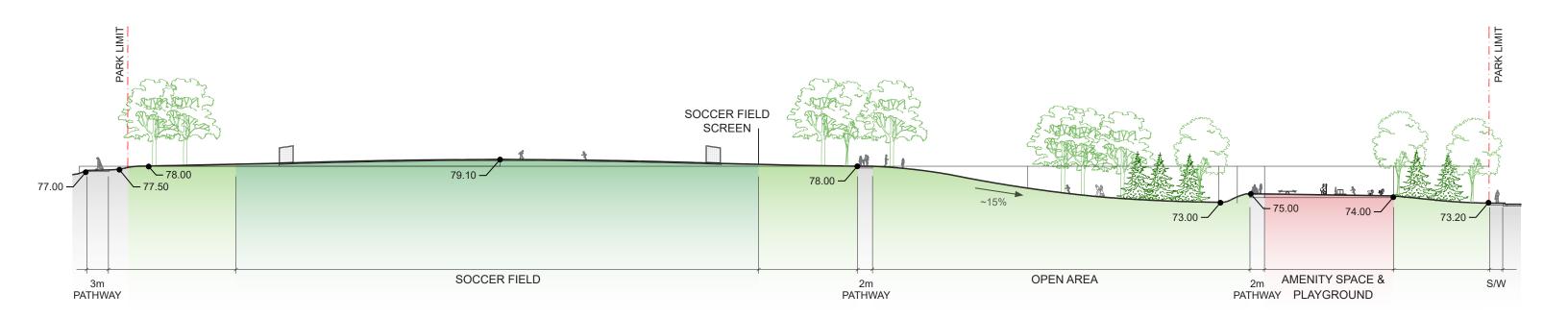






#### Neighbourhood Park Cross Sections .





#### Parkette Fit Plan







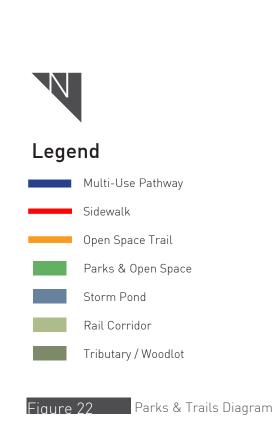








#### Park Programming Possibilities.





#### 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

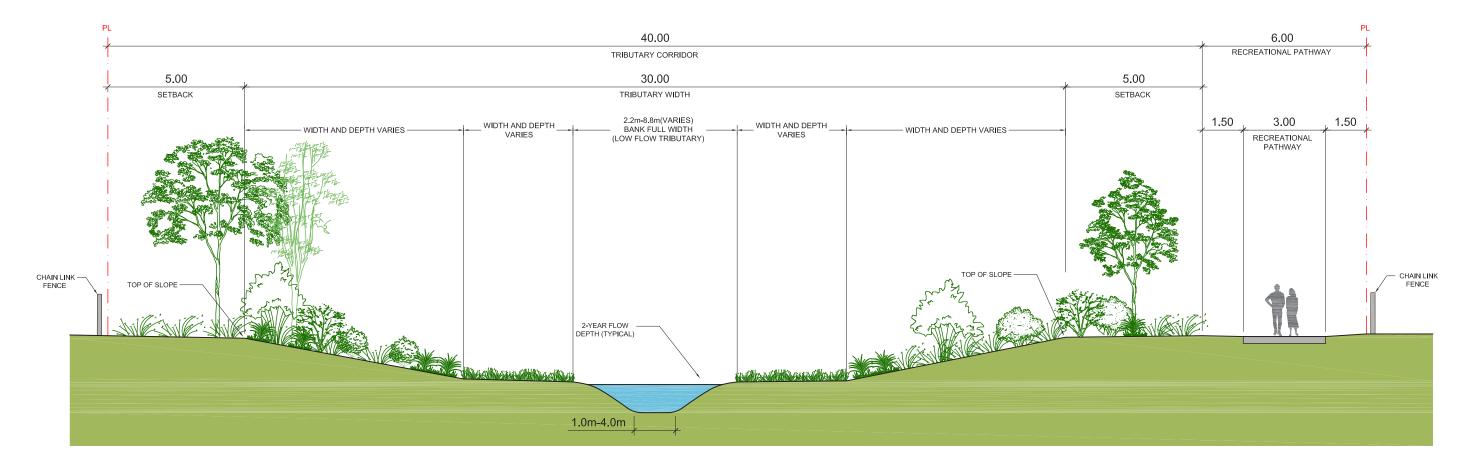


Figure 23 Rear Yard Buffer Section

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.

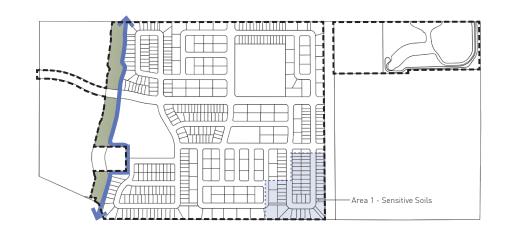


#### Tributary Corridor Section

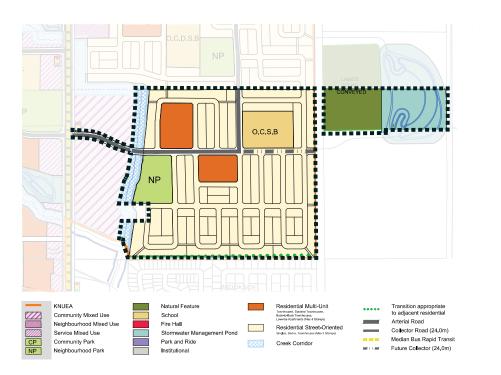




Shirley's Brook Tributary 2 is designated as an Urban Natural Feature that runs north-south along the west side of the site. The 40.0m tributary corridor will include a selection of vegetation suitable to the conditions. As outlined in the CDP, just east of the tributary will be a 6.0m recreational pathway 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.



- natural features.





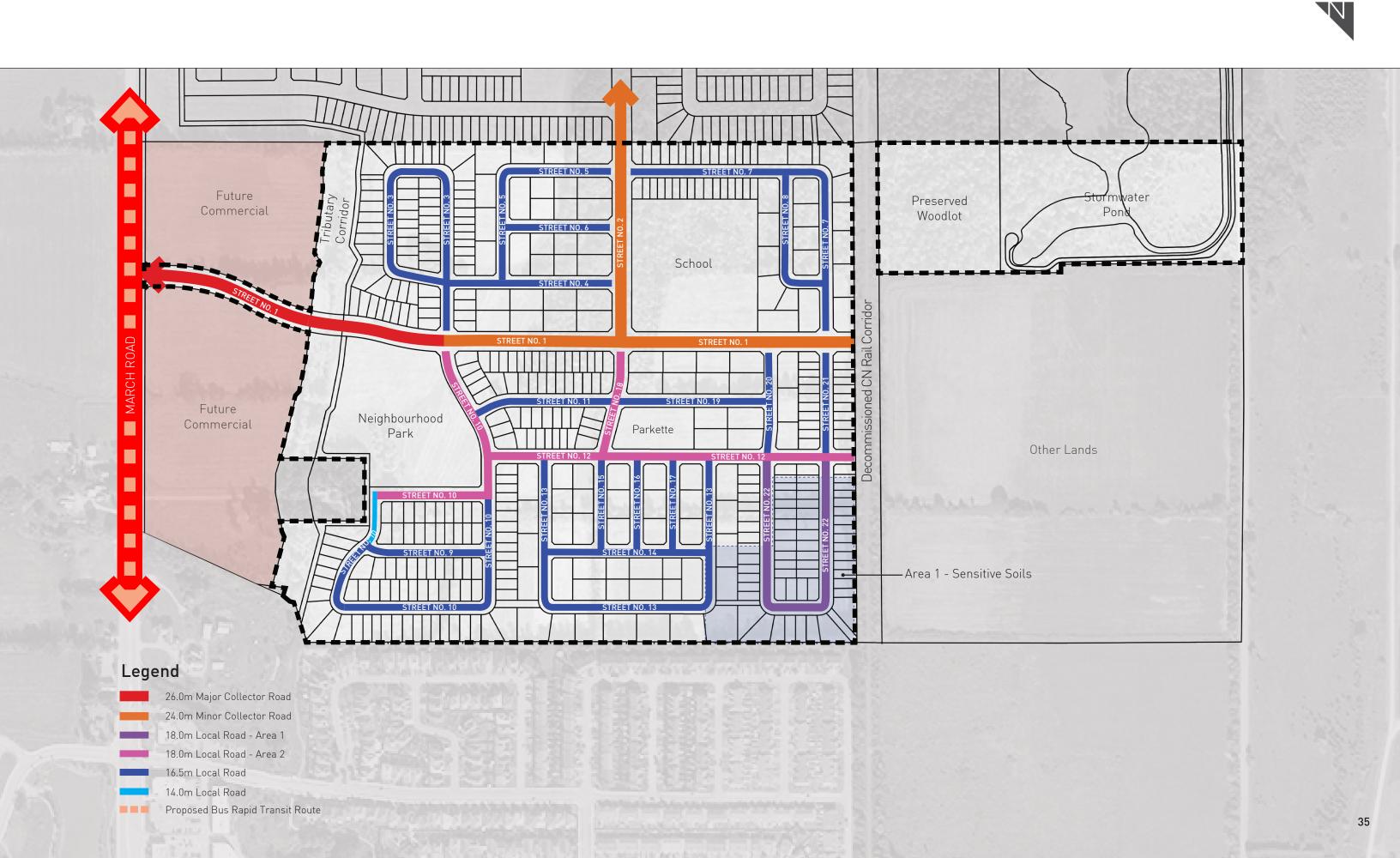
#### Road Network.



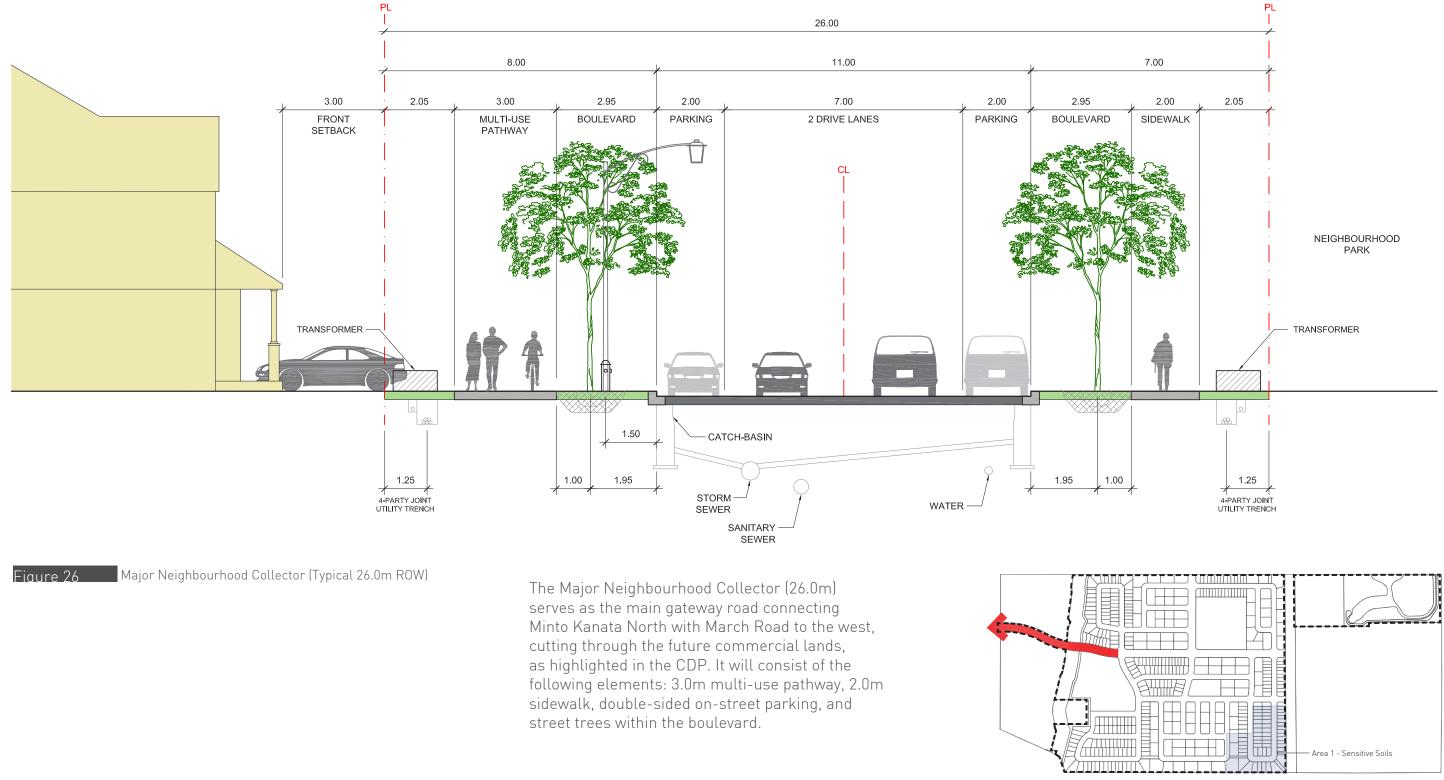
Minto Kanata North will consist of five road typologies that will improve overall connectivity and enhance the character of the neighbourhood. A 26.0m Major Neighbourhood Collector will serve as the main gateway between the residential area and March Road, and a 24.0m Minor Neighbourhood Collector will 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

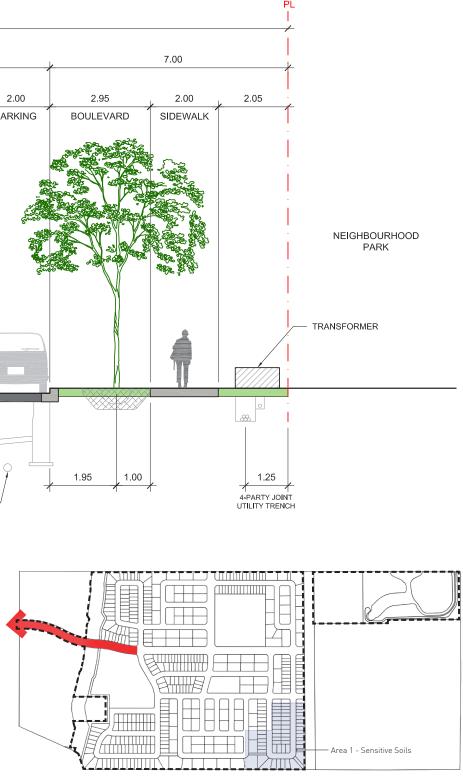
As mentioned previously, running north-south along the March Road arterial will be the proposed Kanata North Transitway, a bus rapid transit corridor running between Klondike Road and the terminal Park & Ride Station north of the subject lands.

#### Kanata North - CDP Demonstration Plan

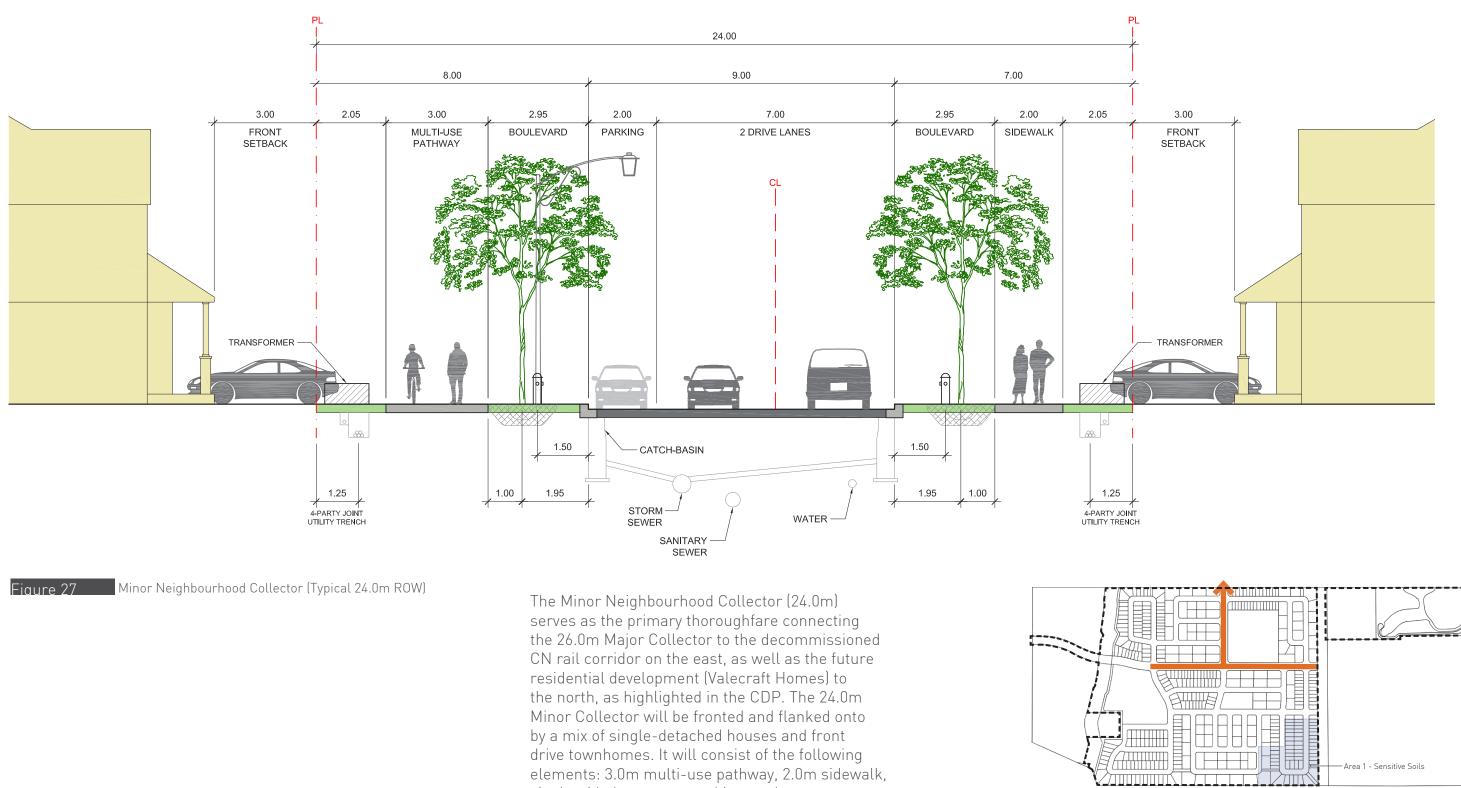


# Major Neighbourhood Collector Section (26.0m ROW)

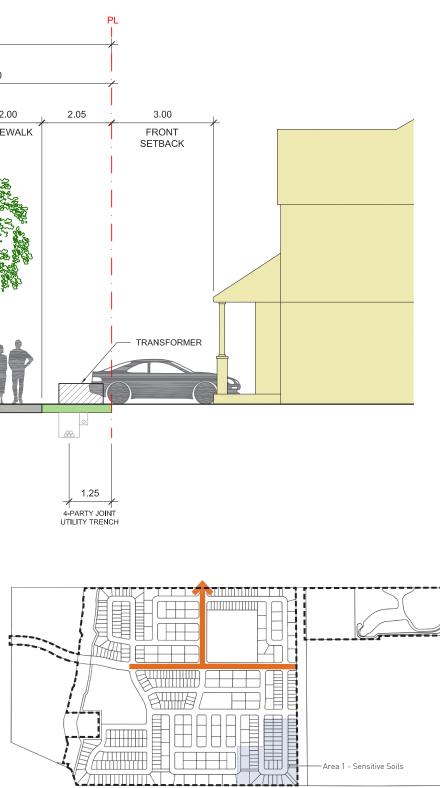




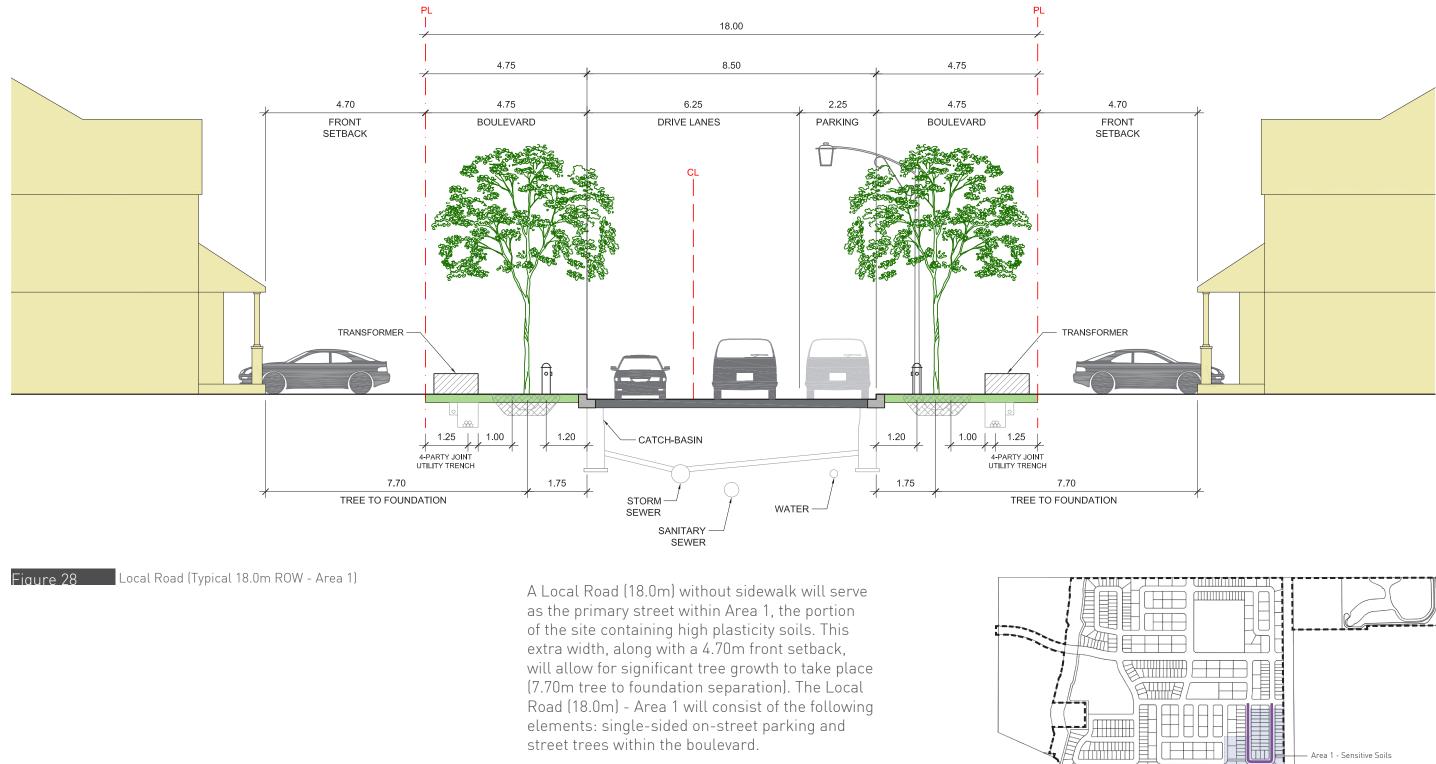
# Minor Neighbourhood Collector Section (24.0m ROW)

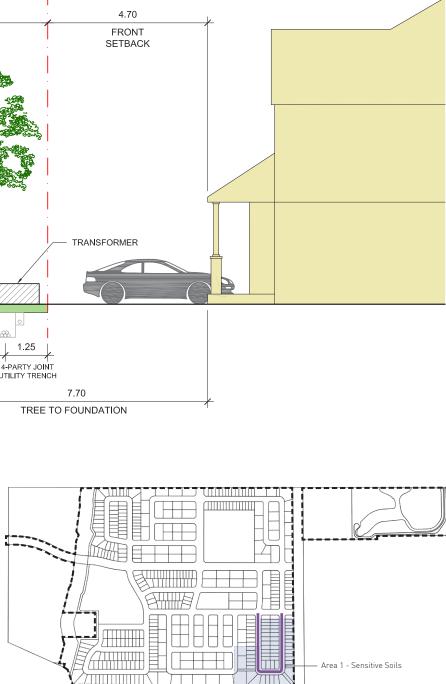


single-sided on-street parking, and street trees within the boulevard.

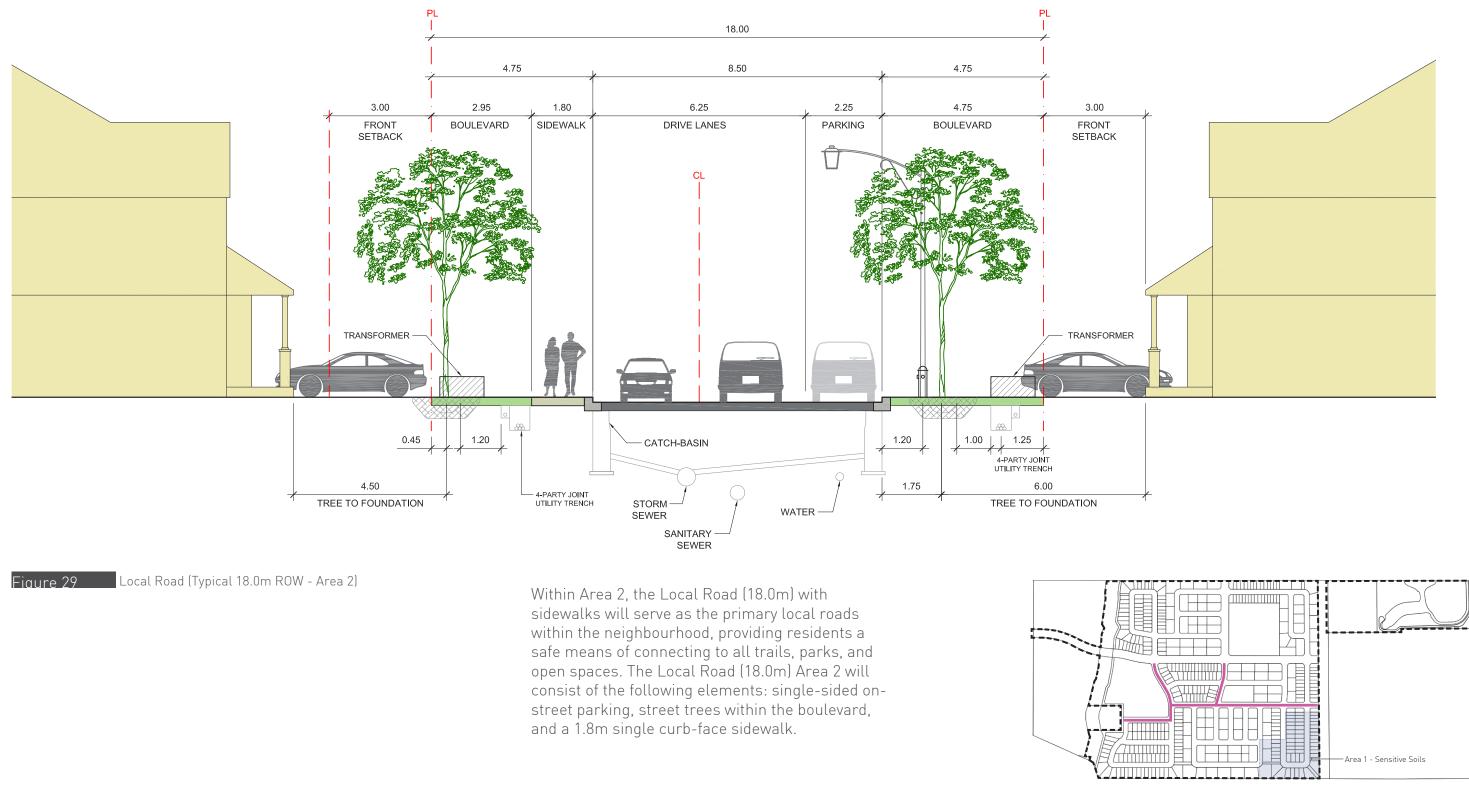


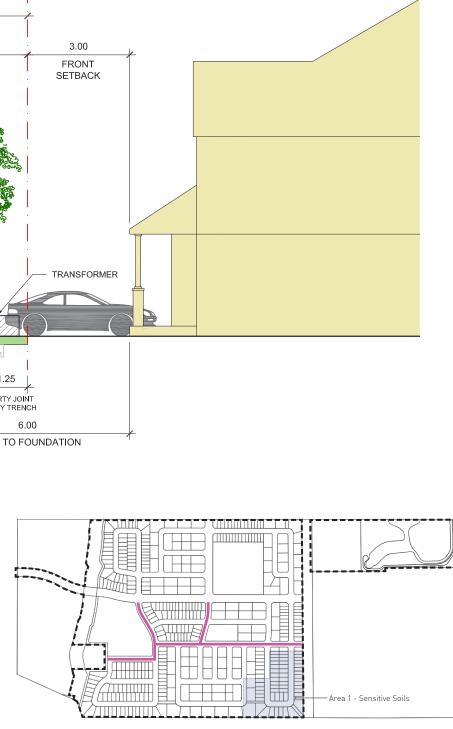
## Local Road Section (18.0m ROW). Area 1 - High Plasticity Soils





## Local Road Section (18.0m ROW). Area 2 - Low to Medium Plasticity Soils





## Local Road Section (16.5m ROW).

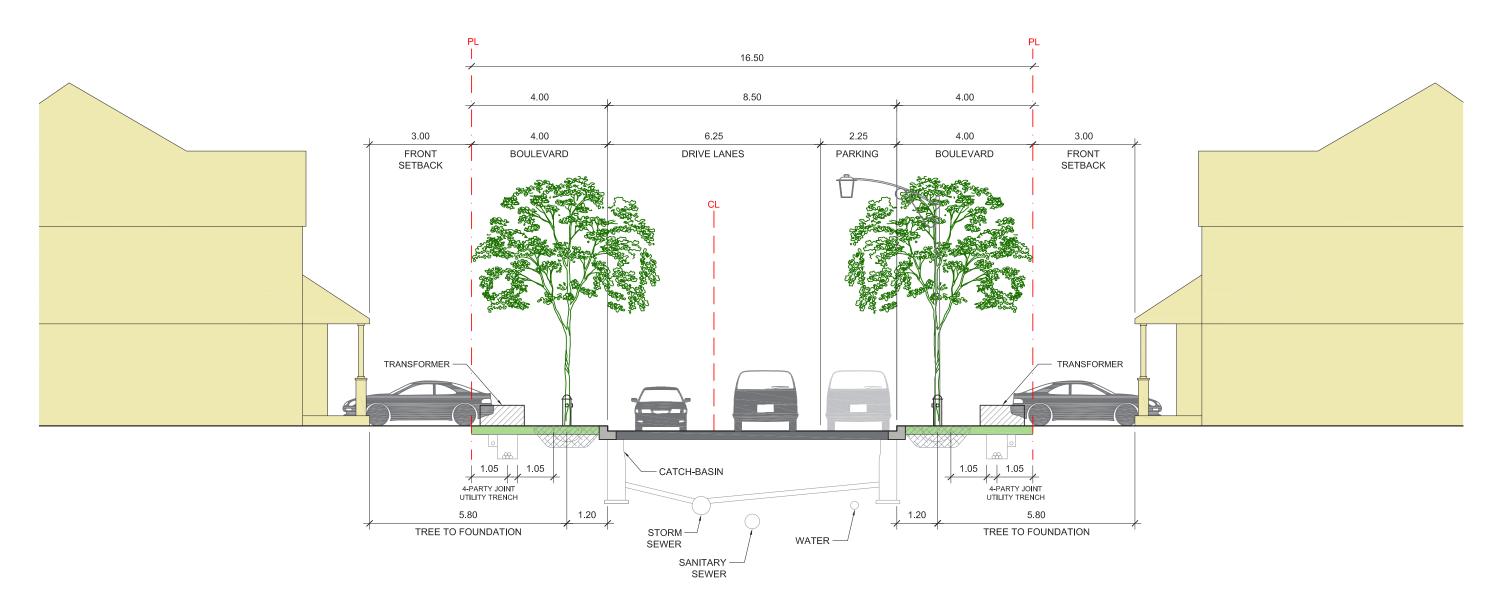
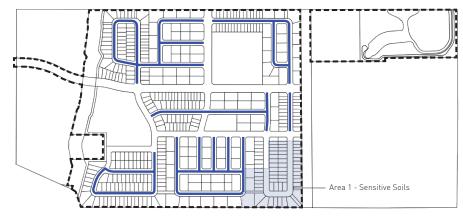


Figure 30 Local Road (Typical 16.5m ROW)

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)

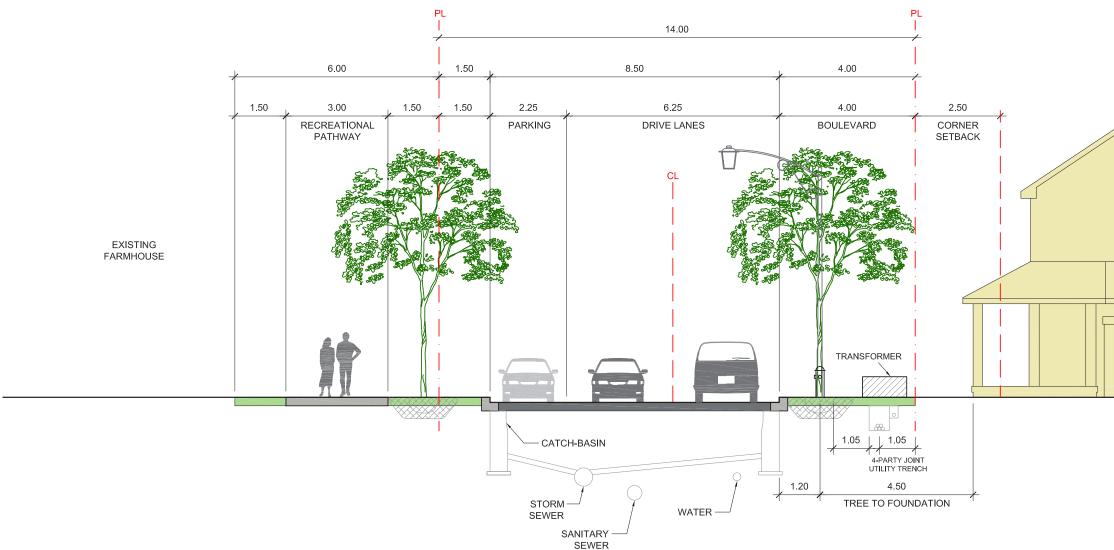


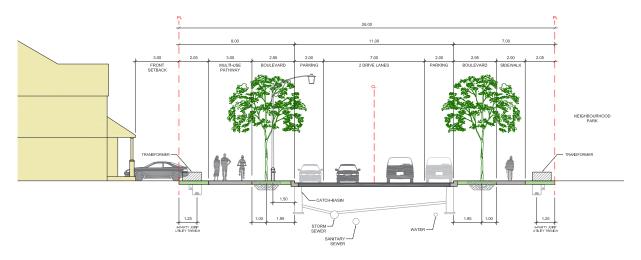
Figure 31 Local Road (Typical 14.0m ROW)

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.

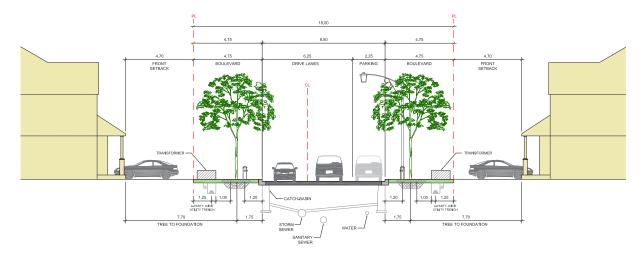


## Road Network Summary.

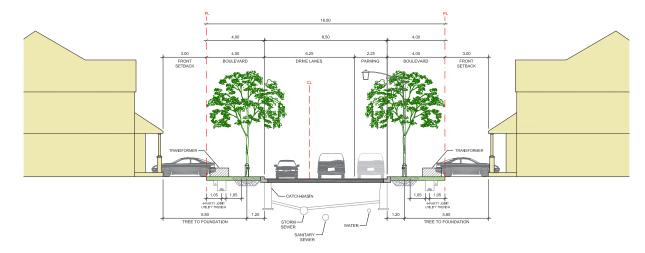
Major Neighbourhood Collector Section (26.0m ROW)



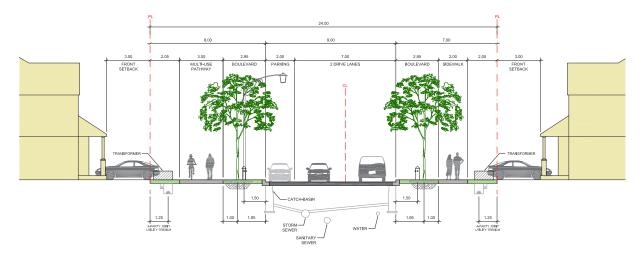
Local Road Section (18.0m ROW - Area 1)



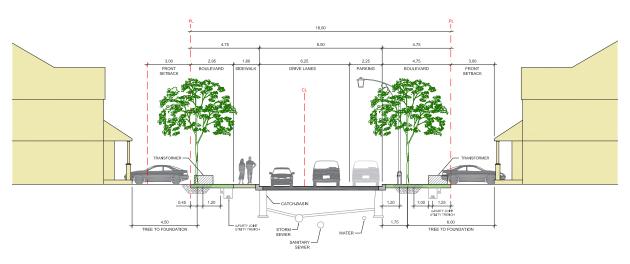
Local Road Section (16.5m ROW)



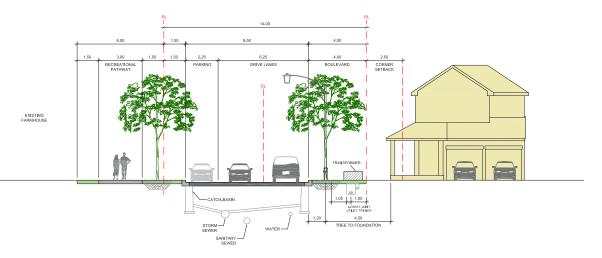
Minor Neighbourhood Collector Section (24.0m ROW)



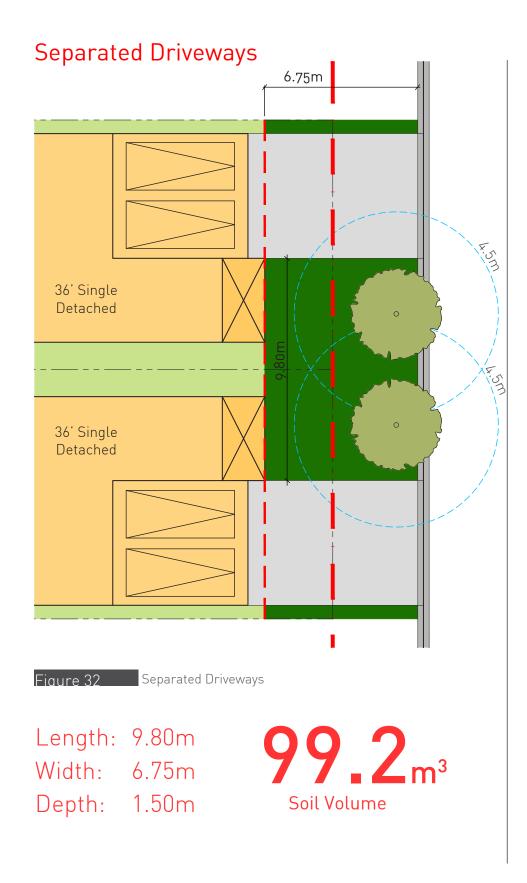
Local Road Section (18.0m ROW - Area 2)

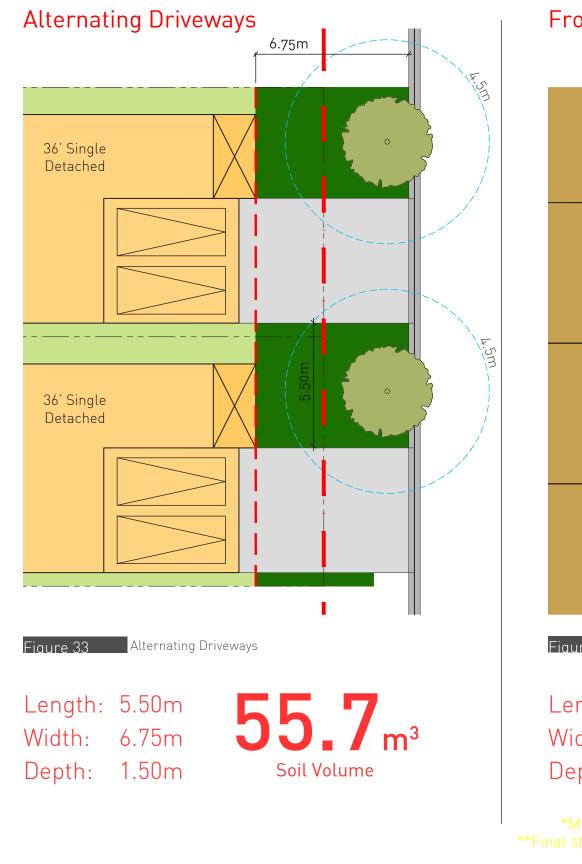


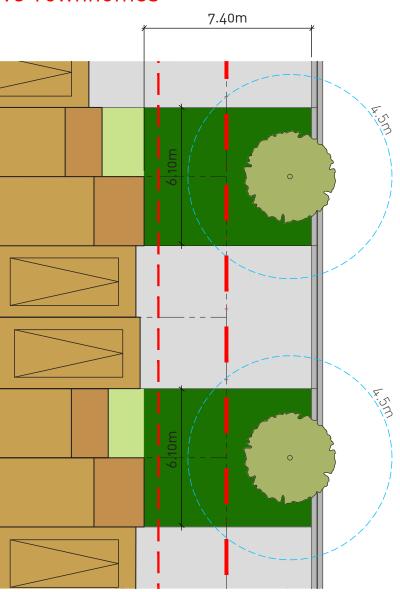
Local Road Section (14.0m ROW)



# Local Road (16.5m ROW) Street Tree Demonstration .







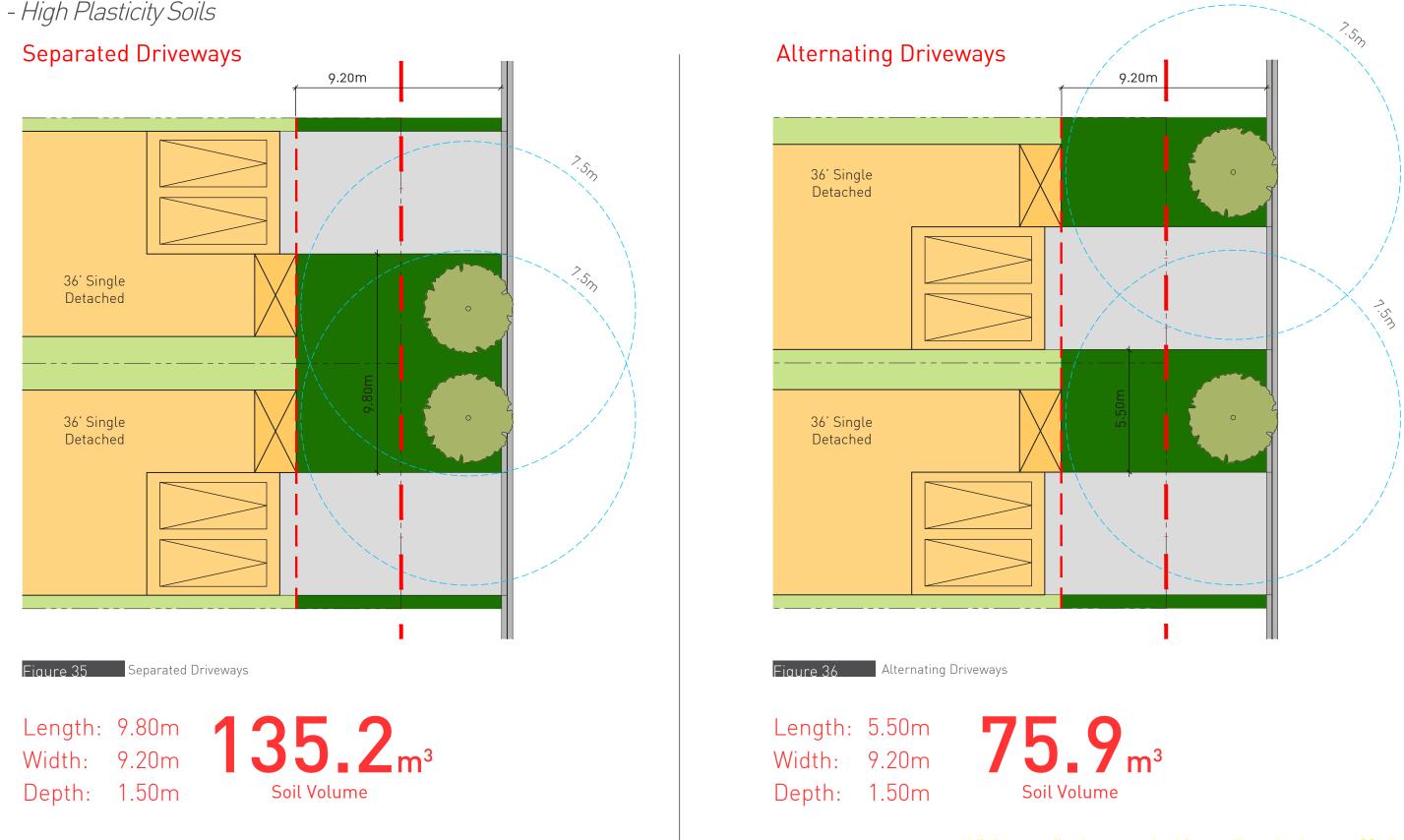
### Front Drive Townhomes

Figure 34 Paired Driveways



soil volume required for medium sized trees = 30m<sup>3</sup> he design to be completed at the detail design stage

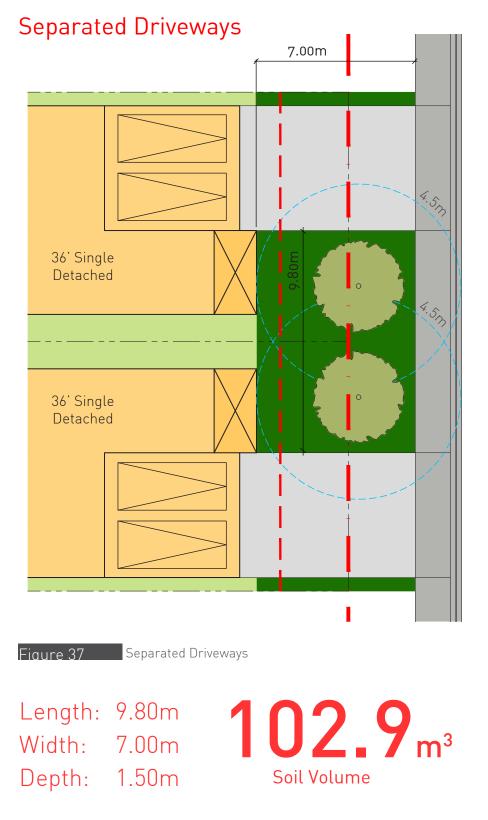
## Local Road (18.0m ROW) Street Tree Demonstration . Area 1 - High Plasticity Soils

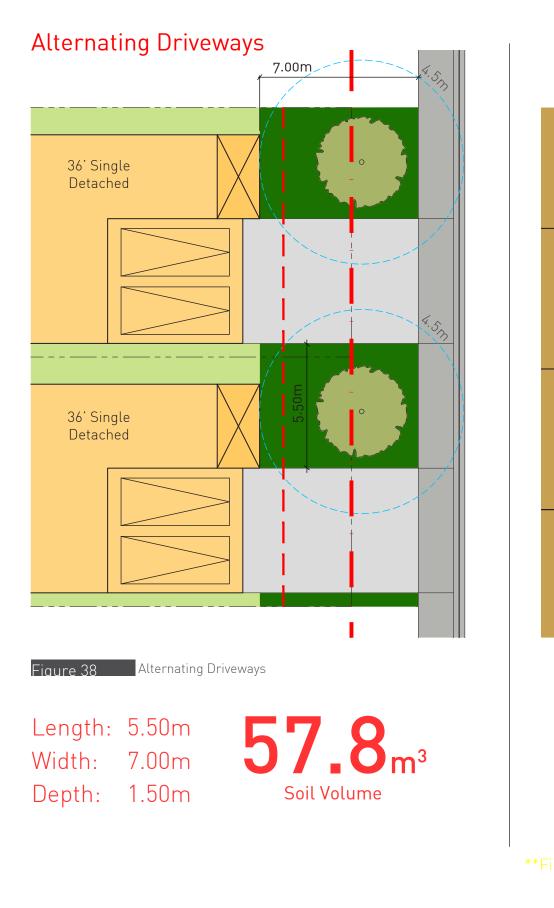


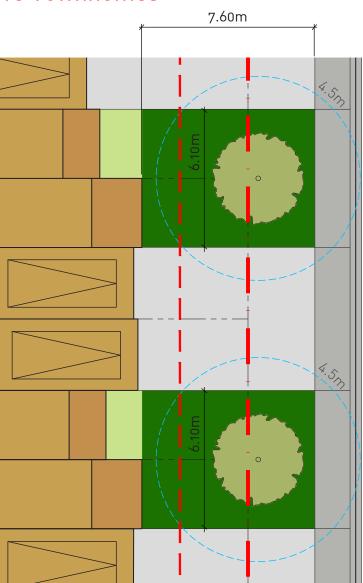
soil volume required for medium sized trees = 30m<sup>3</sup> e design to be completed at the detail design stage

# Local Road (18.0m ROW) Street Tree Demonstration .

Area 2 - Low to Medium Plasticity Soils







### Front Drive Townhomes

Figure 39 Paired Driveways

Length: 6.10m Width: 7.60m Depth: 1.50m

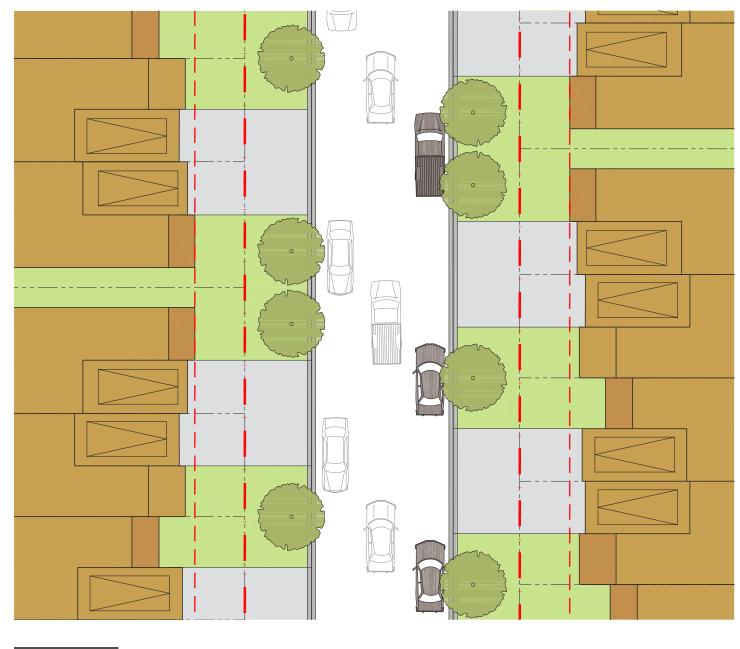
> soil volume required for medium sized trees = 30m<sup>3</sup> e design to be completed at the detail design stage

# Local Road (16.5m ROW) Parking Demonstration .

## Single-Detached Streetscape



## Front Drive Townhomes Streetscape

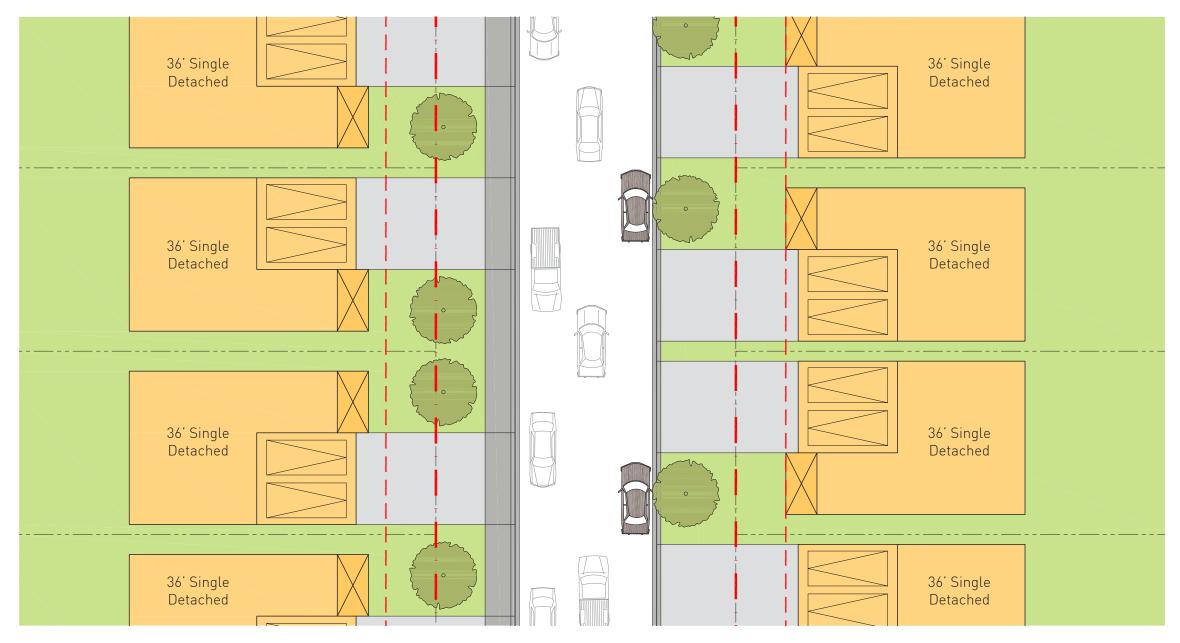


Single-Detached On-Street Parking Configuration Fiaure 40

Figure 41 Front Drive Townhomes On-Street Parking Configuration

# Local Road (18.0m ROW) Parking Demonstration .

## Single-Detached Streetscape



### pe design to be completed at the detail design stage

## Parking Plan .

