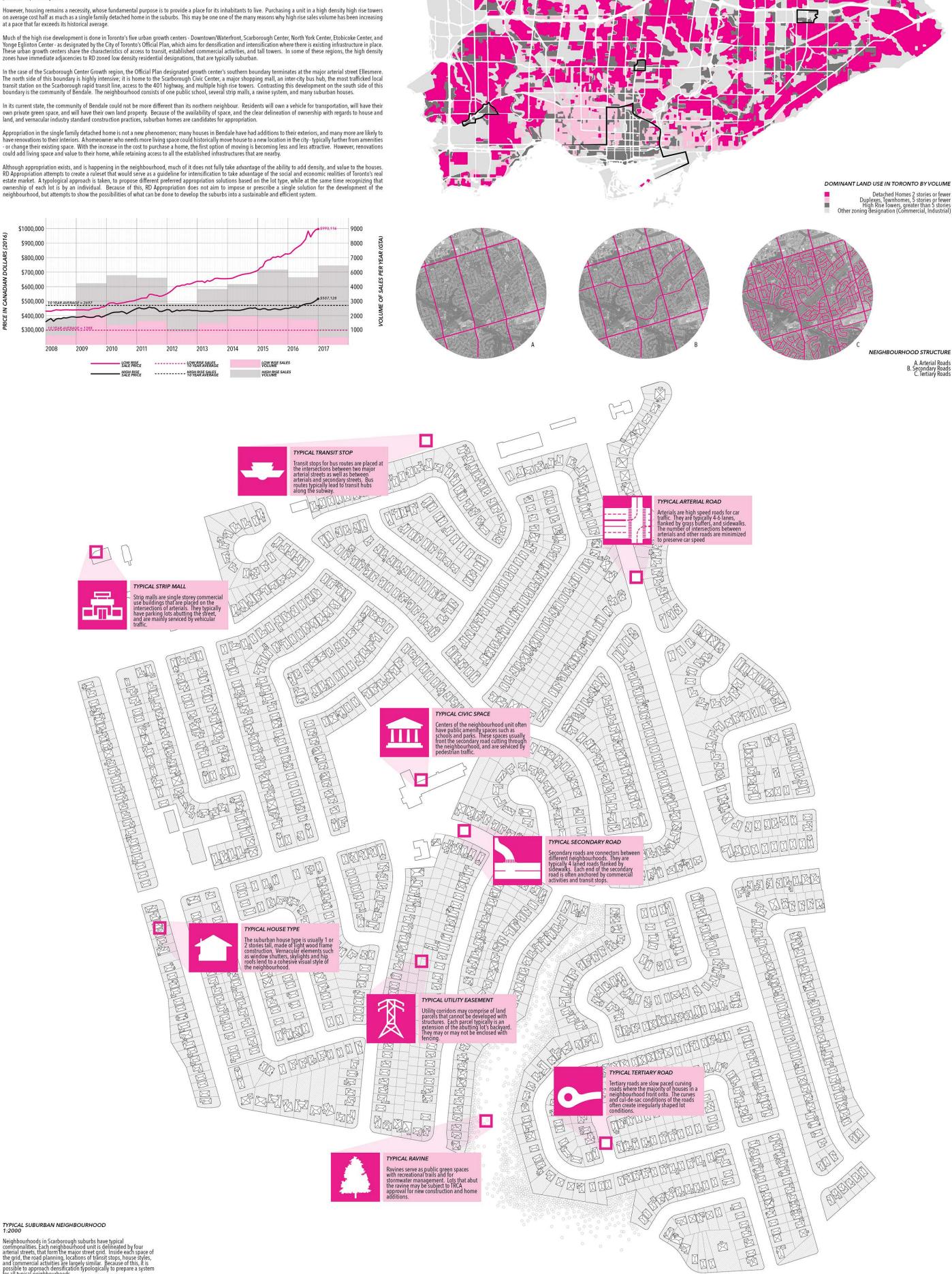
## RD APPROPRIATION

CANADIAN

Housing continues to be one of the major issues for the planning and growth of the City of Toronto. Characterized by rapid growth in terms of volume of construction, and volume of sales in the recent few years, houses have started a shift from its role as not only a basic provider of shelter, to one that is also a commodity. Due to a variety of factors, the average cost of homeownership has greatly outpaced the earning ability of Toronto's average wage earner - with the typical suburban house doubling in

Appropriation in the single family detached home is not a new phenomenon; many houses in Bendale have had additions to their exteriors, and many more are likely to have renovations to their interiors. A homeowner who needs more living space could historically move house to a new location in the city-typically further from amenities - or change their existing space. With the increase in the cost to purchase a home, the first option of moving is becoming less and less attractive. However, renovations

Although appropriation exists, and is happening in the neighbourhood, much of it does not fully take advantage of the ability to add density, and value to the houses. RD Appropriation attempts to create a ruleset that would serve as a guideline for intensification to take advantage of the social and economic realities of Toronto's real estate market. A typological approach is taken, to propose different preferred appropriation solutions based on the lot type, while at the same time recognizing that ownership of each lot is by an individual. Because of this, RD Appropriation does not aim to impose or prescribe a single solution for the development of the



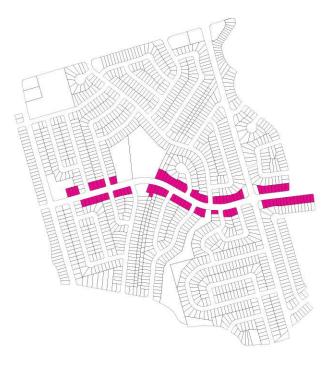
## TYPICAL SUBURBAN NEIGHBOURHOOD 1:2000

Neighbourhoods in Scarborough suburbs have typical commonalities. Each neighbourhood unit is delineated by four arterial streets, that form the major street grid. Inside each space of the grid, the road planning, locations of transit stops, house styles, and commercial activities are largely similar. Because of this, it is possible to approach densification typologically to prepare a system for all typical neighbourhoods.



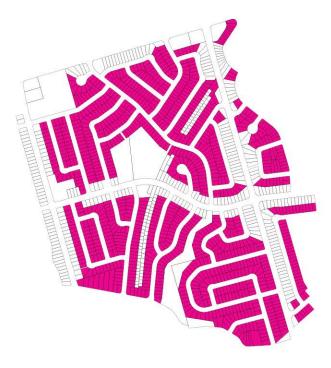
REVERSE LOT ARTERIAL ROADS

These lots front on tertiary roads and back onto major arterial roads. Existing lots typically, have 45 meter (145 foot) lot depths with 14 meter (45 foot) frontages. Although existing access is primarily through the tertiary road on which the lot faces, some homeowners have begun to construct gates along the rears of the lots to allow for pedestrian access.



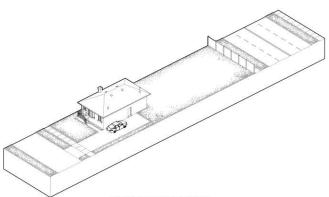
SECONDARY ROAD

Lots fronting onto a secondary road typically have lot frontages that between 14 meters and 16 meters (46 and 52 feet). Existing lots are not as deep as reverse arterial lots or tertiary lots. Secondary roads may have overhead utilities flanking the roadway. The road itself may have on-street parking as well as dedicated bicycle lanes and may have dedicated pedestrian crosswalks.

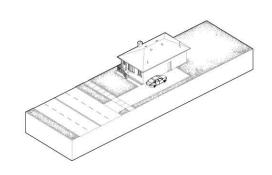


TERTIARY ROADS

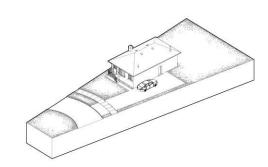
These lots comprise the majority of the neighbourhood land use. Lots typically have frontages of 14m (45 feet). Lot shapes and proportions vary along the curve of a road leading to non-orthagonal, pie shaped lot types. Vehicular traffic along these roads is usually slow; with the roadway sometimes doubling as parking, or for recreational activities.



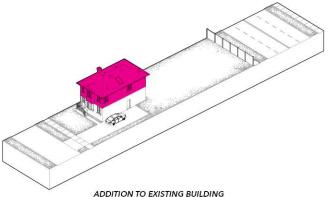
**EXISTING LOT CONDITION** 



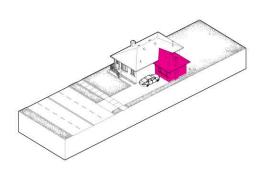
**EXISTING LOT CONDITION** 



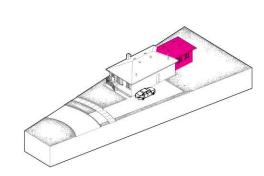
EXISTING LOT CONDITION



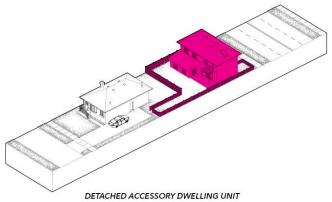
ADDITION TO EXISTING BUILDING

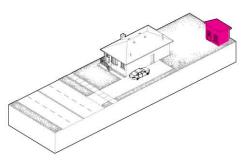


ADDITION TO EXISTING BUILDING

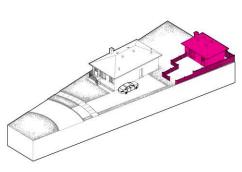


ADDITION TO EXISTING BUILDING

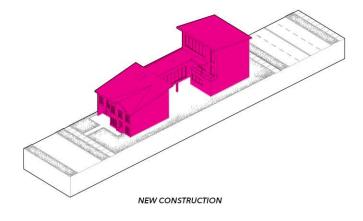


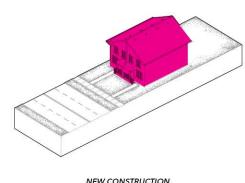


DETACHED ACCESSORY DWELLING UNIT

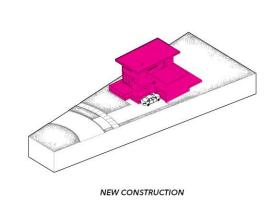


DETACHED ACCESSORY DWELLING UNIT



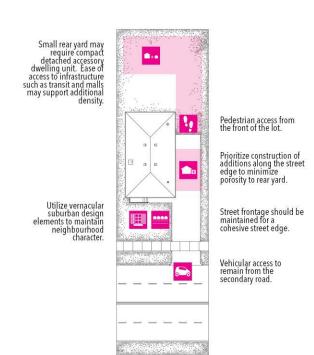


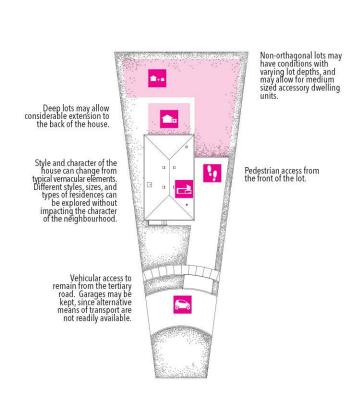
NEW CONSTRUCTION

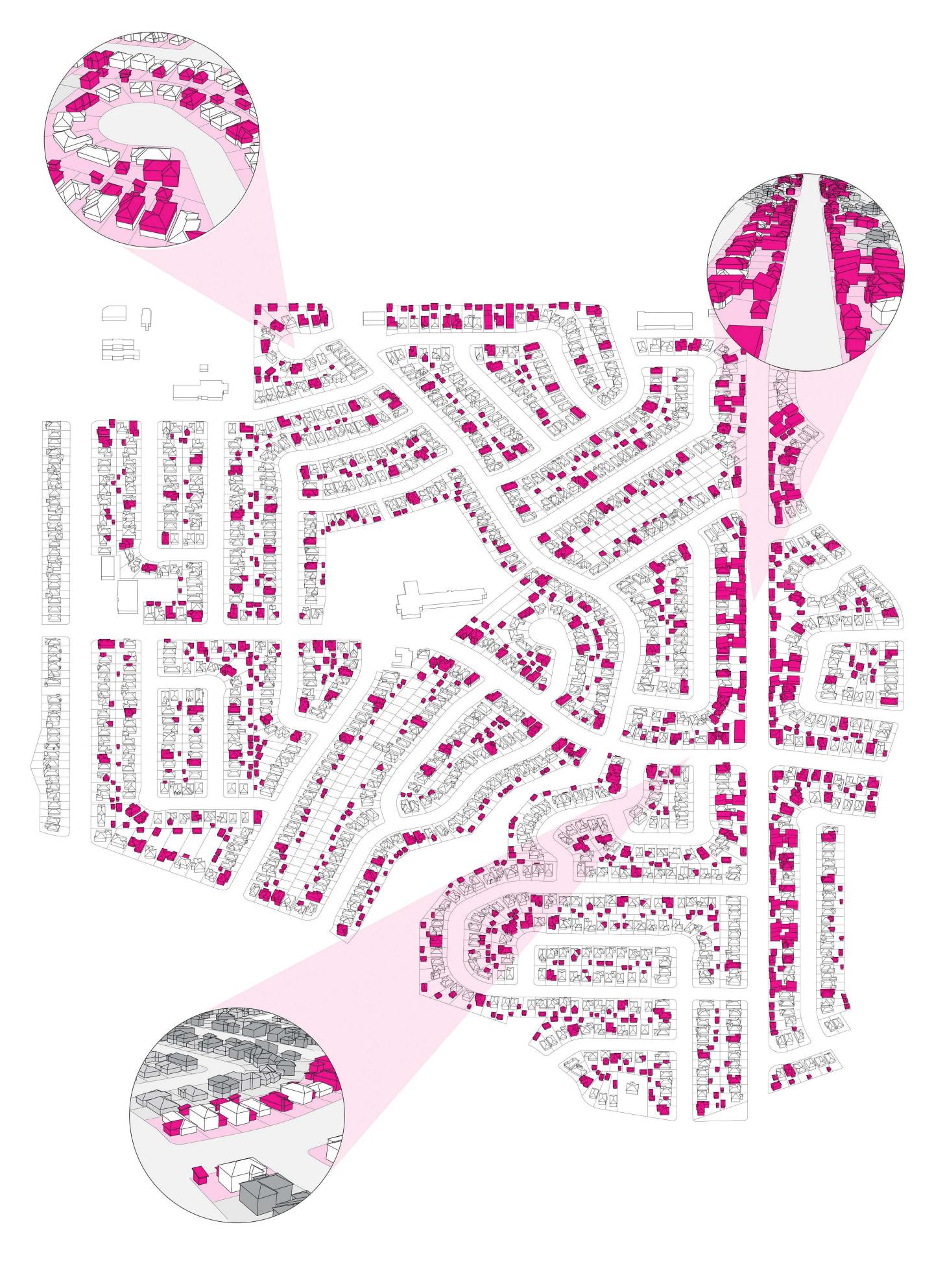


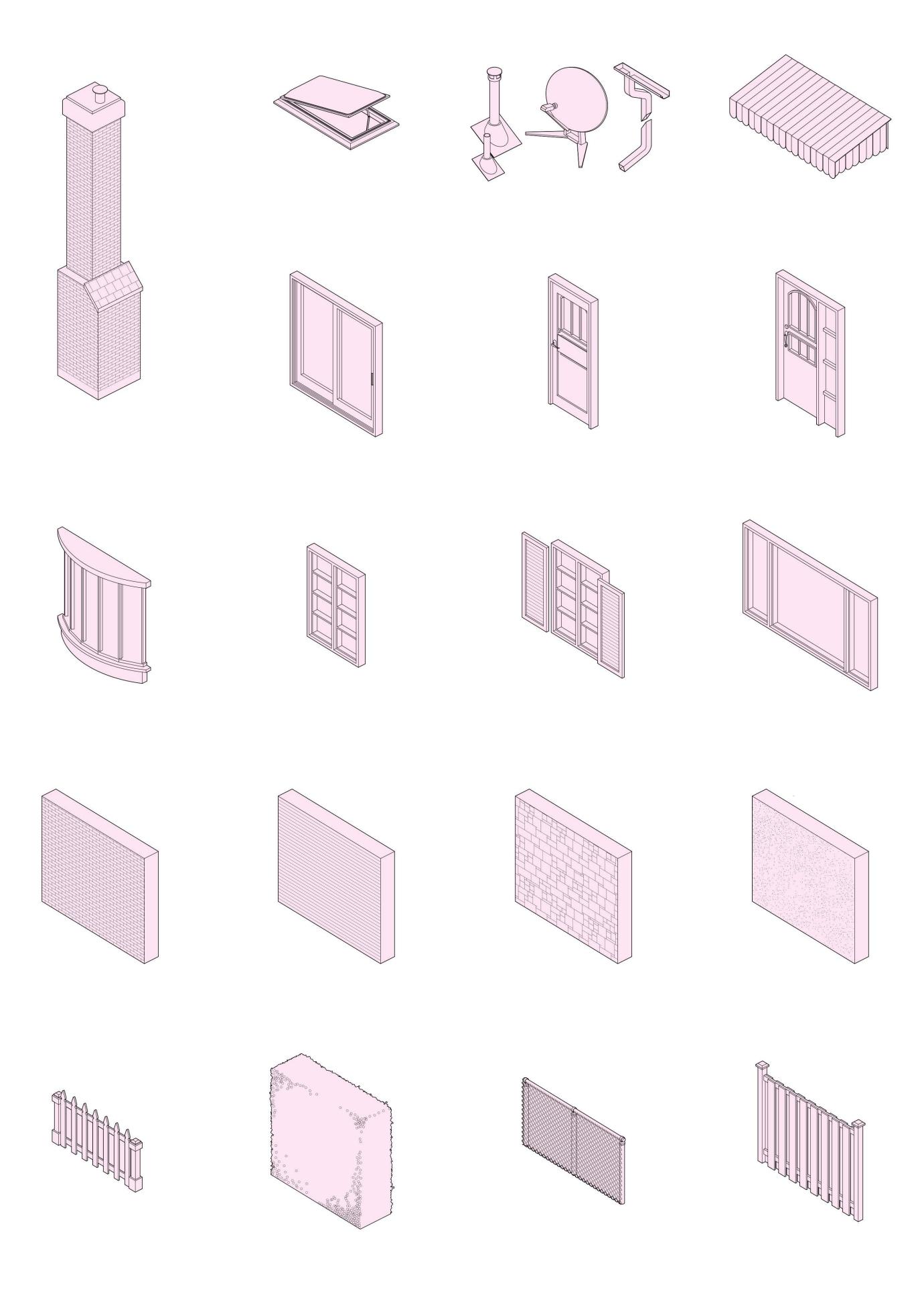
Allow pedestrian access from arterial road. Improved access to public transit decreases importance of vehicular access. 20 Lot can be severed into two. Ownership of two lots to be by principal lot \*\*\* Courtyards and greenspaces may be introduced for natural daylighting and ventilation .4. Additional height may be developed. Houses can be two or three stories with pitched roofs. Ê

Vehicular access to remain from the tertiary road.





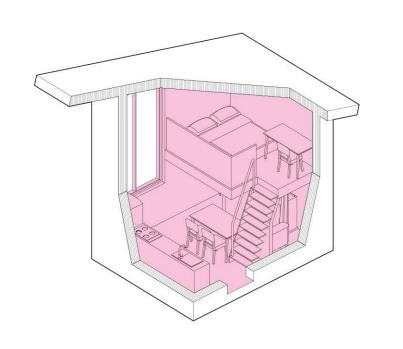


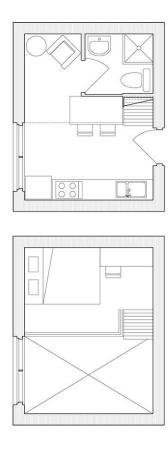


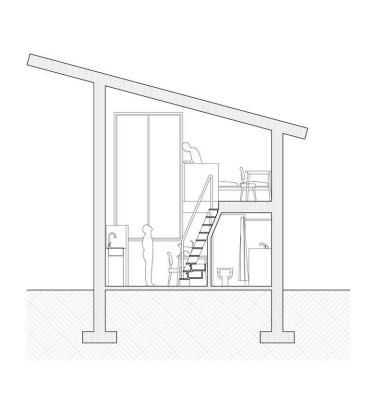
SECONDARY LOT - DETACHED ACCESSORY DWELLING UNIT PROTOTYPE

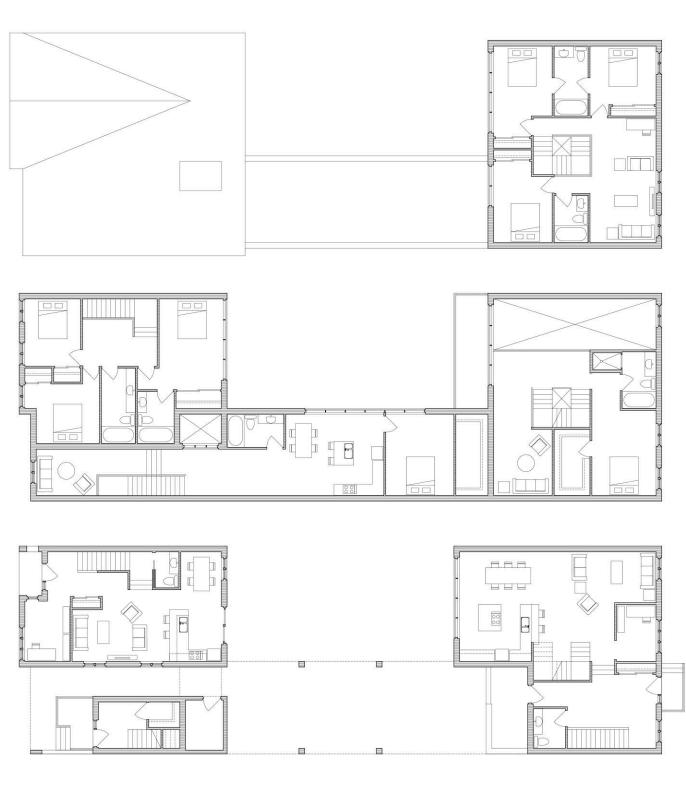
This compact building attempts to offer the choice of a detached home to all lot types since detached dwellings remain a highly desired housing type in Toronto's current economic and cultural dimate.

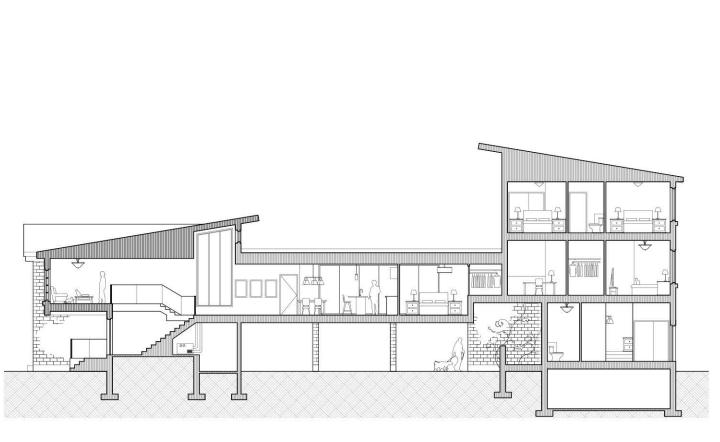
Occupying a small footprint of 4 by 5 meters, this house provides all the basic amenities that would be required. This prototype attempts to be quickly and easily constructible by using industry standard lumber dimensions, short spans, and simplistic shed roof designs.

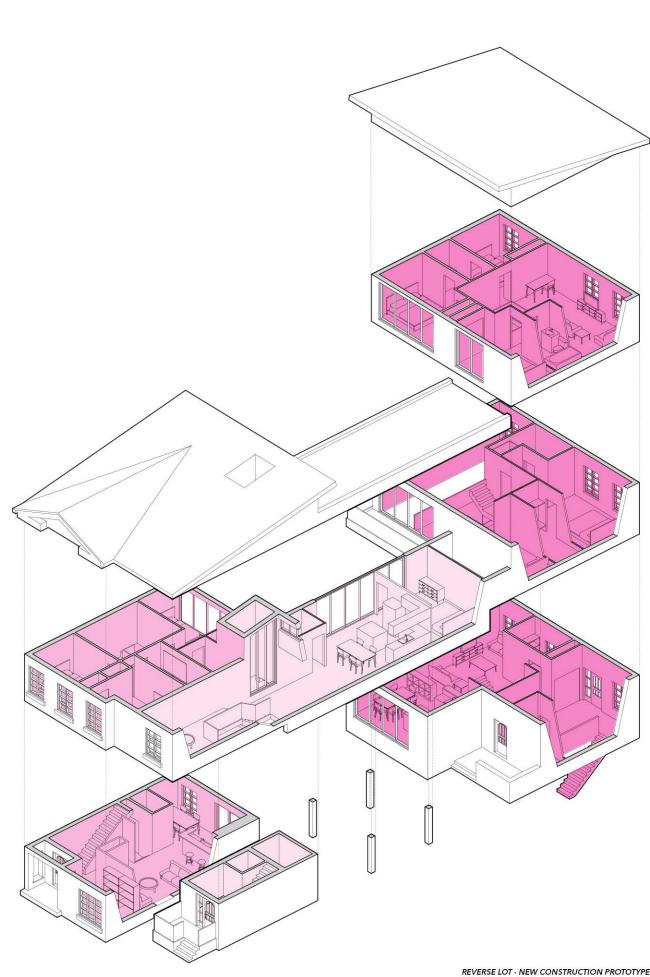












REVERSE LOT - NEW CONSTRUCTION PROTOTYPE

New construction on the reverse lot attempts to introduce multi-unit residential dwellings onto the spacious site. Each unit is independent of one another, sharing only the green space in the courtyard.

The courtyard is introduced in the middle of the building in order to provide a well for sunlighting and natural ventilation. A breezeway is introduced from the tertiary road to the courtyard, providing a covered, semi-private space for communal use.

Because of the close proximity between units, floor plates are staggered to minimize direct sight lines between units. Sound privacy is maintained through the minimal shared party walls and party floors. Where party walls do exist, service spaces such as closets are used for additional sound buffer.