

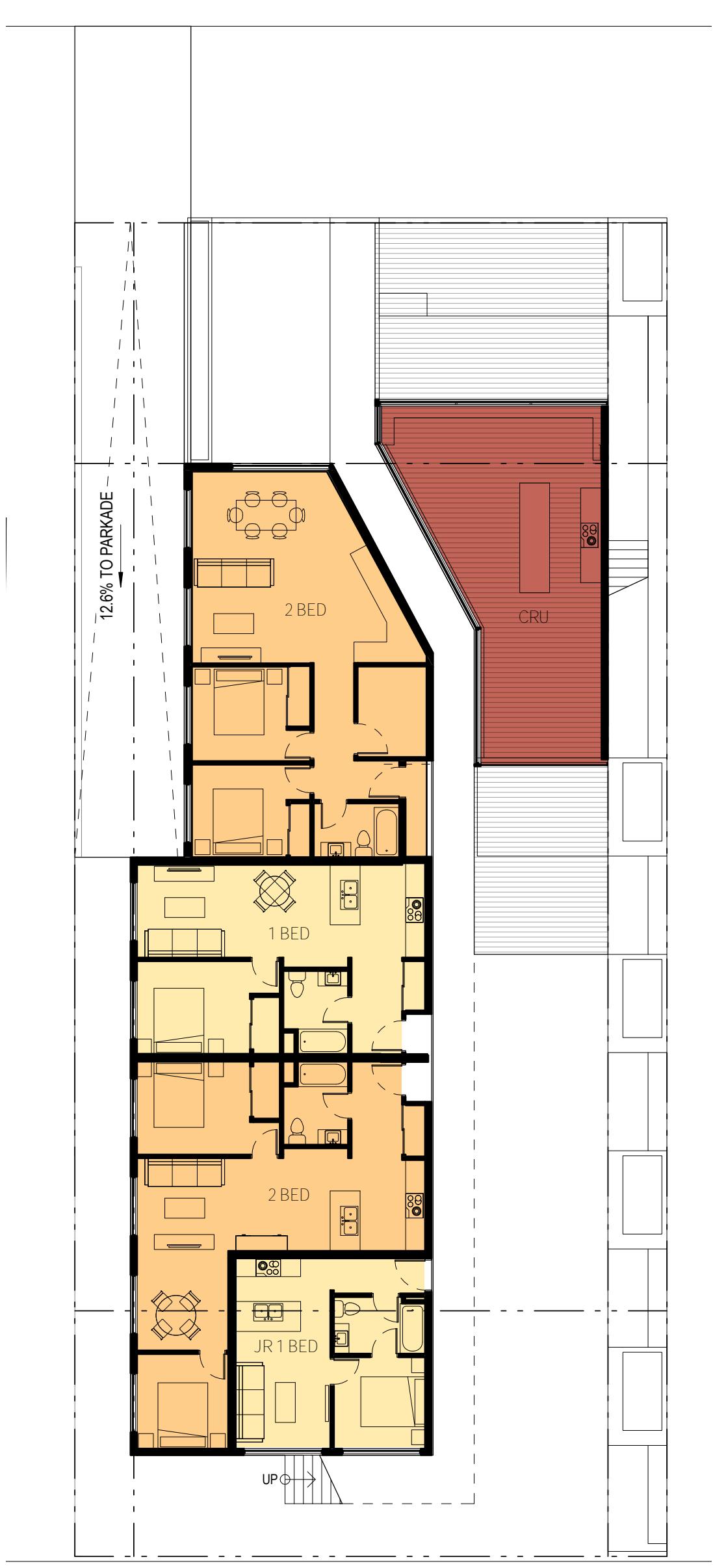


One is good, two is better, but many is great.

Driven by a co-housing approach and a community typology based on aggregation that provides opportunities for aging in place, this project creates a diversity of unit types to accommodate families and their extended relatives (grandparents, aunts, uncles), students, and singles and couples looking for a starter space who will later need to grow their space with their families.

The project also provides a model for commercial insertions through a street-oriented “mortgage helper” (or Commercial Retail Unit, in more conventional terms). The space may be used as a community space for the building and neighbourhood, or leased out to small businesses such as a café, beauty salon, professional services office, or retail establishment.

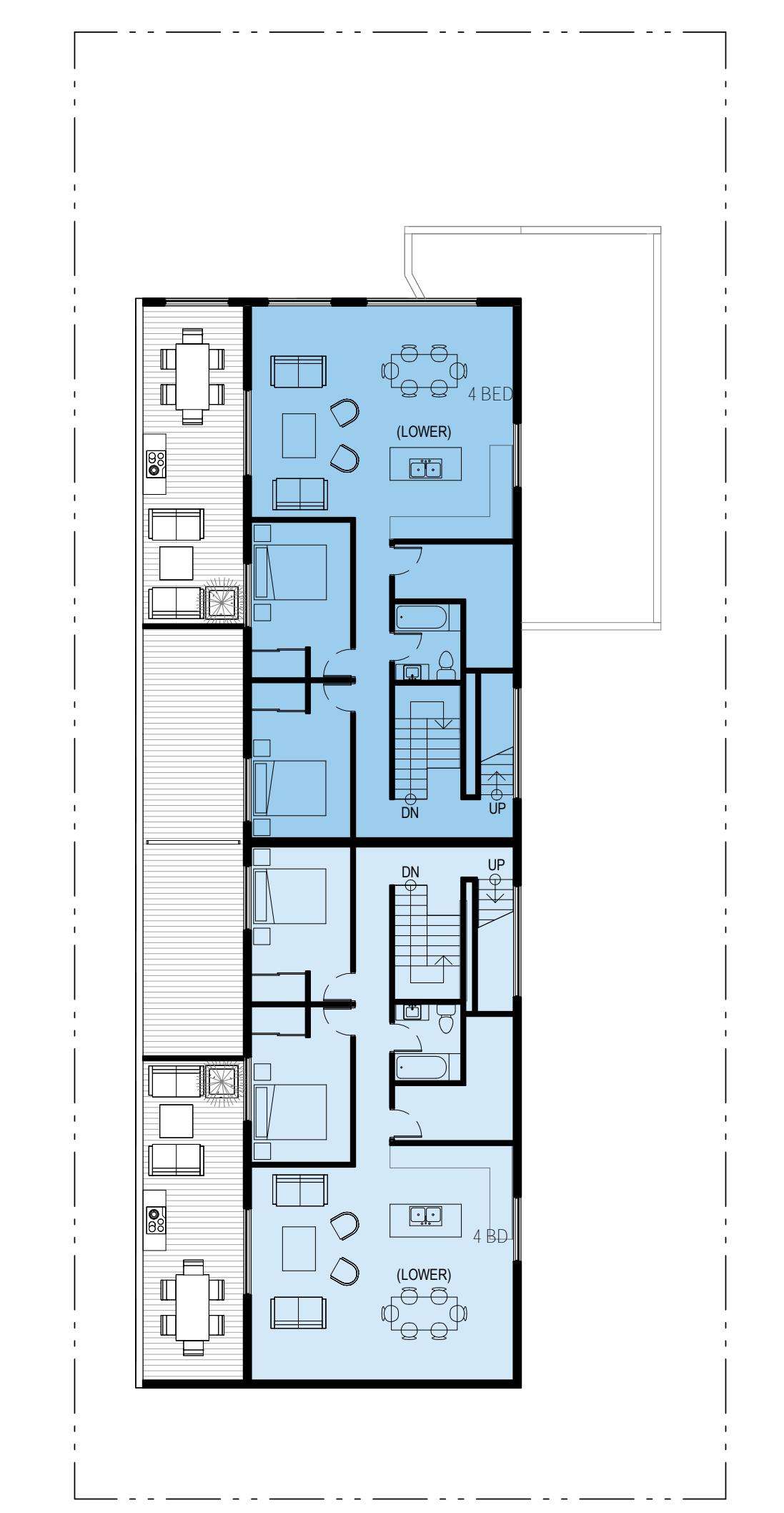
This approach aims to focus on the benefits of increased density and foster greater interaction between neighbours to stimulate exchange of ideas and create resilient communities that look out for each other.



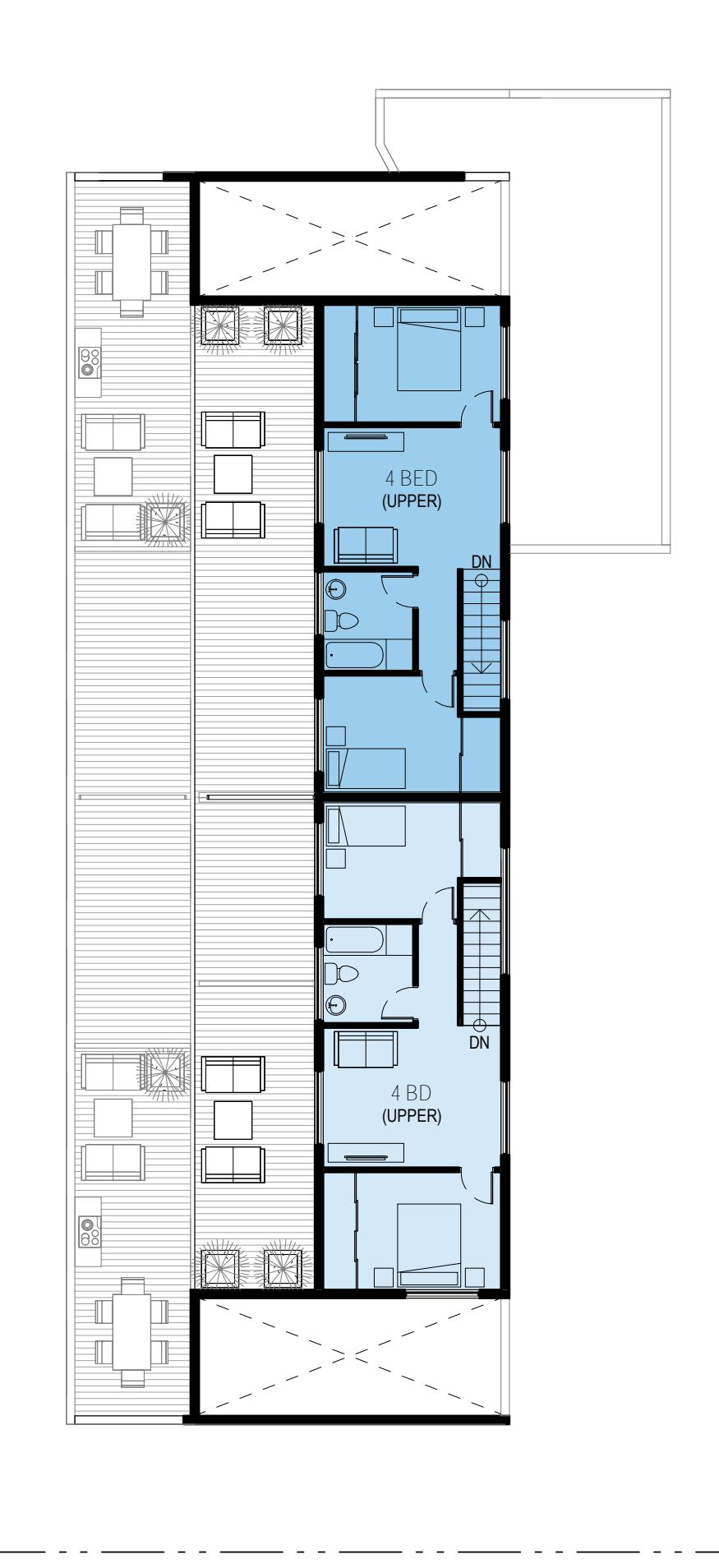
Ground Level — 1:150



Second Level — 1:150



Third Level — 1:150



Attic Level — 1:150

Design Rationale:

Linear mass

Achieving a 1.2 floor space ratio (FSR) in an established neighbourhood is not an easy task. The proposal groups the residential units into a 3.5-storey linear block biased to one side of the site, opening the ground plane. The mass is large, relative to an existing bungalow, say, but not necessarily out of place compared to some of the existing larger houses.

Commercial/Public Gesture

At the front of the site, the generic space asserts itself along the street to create a viable retail frontage, or community-focused space for use by the building's residents. Potential occupants of this space already exist in the area, evidenced by the handful of informal beauty salons operating out of existing homes.

Interstitial Space

As density increases, floor area per home decreases, forcing shared spaces to take on greater significance. The site's courtyard opens on to the rear lane, destined to be recovered as a linear park once the City assembles the land over time. The shared exterior space consists of three primary elements:

1. Open space
2. Community garden
3. Gathering space

Spectral Layering

Physical and visual layering creates a spectrum of spatial character – from the private units, to the semi-private courtyard, to the semi-public faces of the project, to the public edges on the street and on the proposed linear park. Architectural strategies such as screening and semi-covered spaces are used to establish this gradient.

Social Rationale

Low barrier to entry

The proposal uses only a single lot, lowering the barrier to entry and avoiding any complex legal arrangement otherwise needed to develop multiple lots.

Multi-family and Multi-generational Living

A co-housing development model is proposed not only as a financial instrument, but also as a means to provide multi-family and multi-generational housing options. In Surrey, some homes may contain members of an extended family living under one roof. It may be desirable for these families to continue to live in close proximity, but to have their own spaces as well: A growing family with 2 or 3 children may wish to have grandparents live nearby who can provide childcare, or who may need assistance from their adult children.

Co-housing community

The co-housing model also provides a framework for like-minded individuals and families to self-assemble their own community in conjunction with the development. These people are typically motivated and committed community-oriented groups who are open to both shared responsibilities and shared experience, whether it's through sharing meals, partaking in upkeep and maintenance, or providing ad-hoc informal childcare for others in the co-housing group.

Social Contributions

The proposed CRU can act as the public face for the building and different developments may serve different community functions. If used as a gathering space, the CRU may provide a venue for local interest groups or enthusiasts, in addition to providing function space for the residents. If used for retail, office or personal services, it can provide small business and employment opportunities close to home, and draw others from outside the immediate neighbourhood into the mix.

Affordability Rationale

Co-housing model

Co-housing has a few appealing financial features:

Trade land for green space

At the block scale, the proposal calls for the city to buy a swath of land at the rear of each lot, and create a linear park that ties the area together. The exchange is win-win, as the co-housing group receives a capital injection from the sale while gaining access to more open space, and the community receives a new green space.

Example mortgage calculation

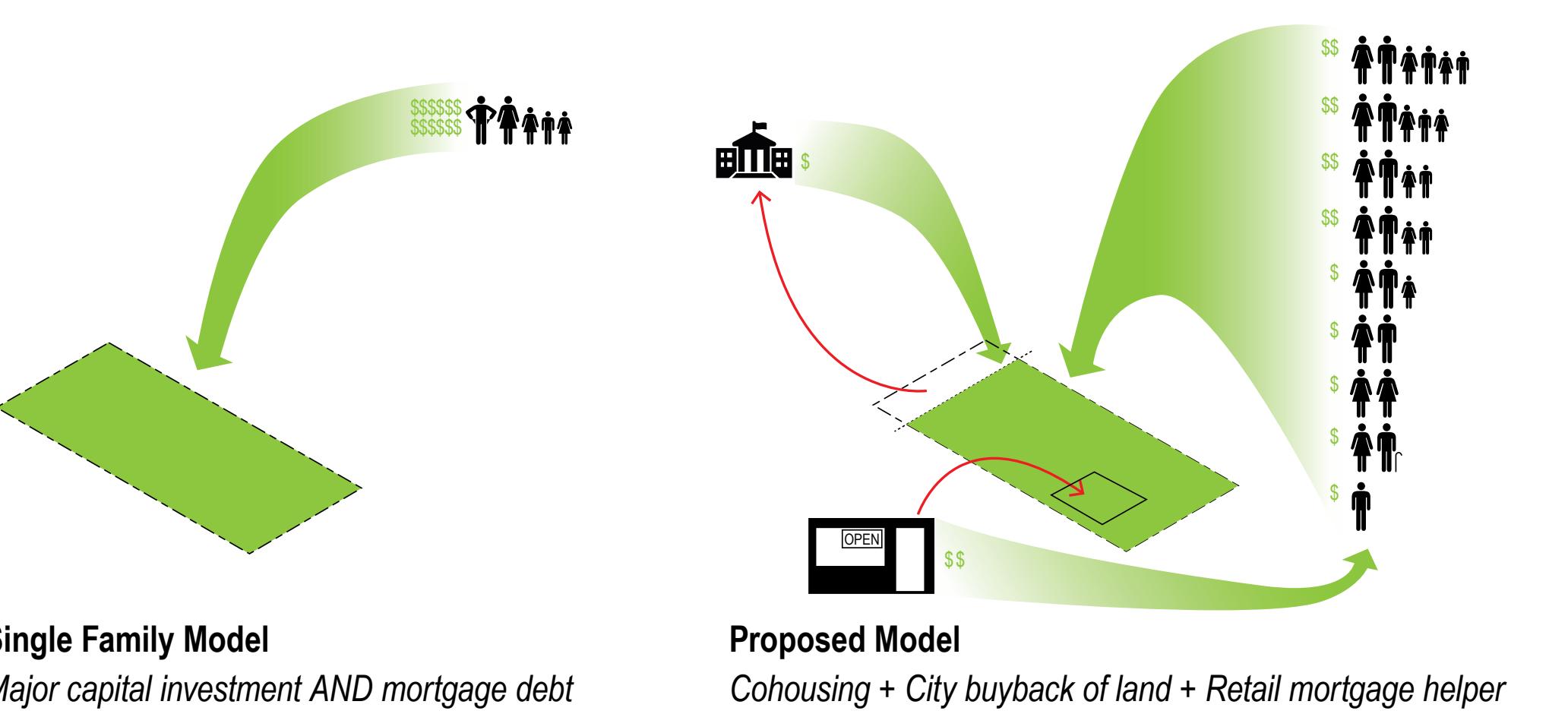
3-bedroom unit:	\$460,000
10% down payment:	\$46,000
5-year fixed rate:	3.04%
Amortization:	25 years
Monthly payment:	\$1967/mo

Project Data

The building contains a variety of types, with an emphasis on 3- and 4-bedroom units on the upper levels. In addition to smaller 1- and 2-bedroom units on the lower levels, a generic space (CRU) is provided – variable in size depending on the needs and desires of the co-housing group – that can be occupied as a community space or leaseable revenue generator. Units are designed to be self-contained. However the design provides opportunities for residents to occupy the exterior spaces around the building. Underground parking provides 11 stalls, anticipating that some residents will take public transit but most are still likely to drive.

Site Area	7932 ft ²	737m ²
Gross Building Area	9872 ft ²	917m ²
FSR	1.24	

AREA (ft ²) / AREA (m ²)		
MAIN FLOOR		
1 BED	599 ft ²	56 m ²
2 BED	898 ft ²	83 m ²
2 BED	804 ft ²	75 m ²
CRU	704 ft ²	65 m ²
JR 1 BED	405 ft ²	38 m ²
	3410 ft ²	317 m ²
SECOND FLOOR		
3 BED	1131 ft ²	105 m ²
3 BED	1153 ft ²	107 m ²
JR 1 BED	444 ft ²	41 m ²
	2728 ft ²	253 m ²
THIRD FLOOR		
4 BED LOWER	1252 ft ²	116 m ²
4 BED LOWER	1256 ft ²	117 m ²
	2508 ft ²	233 m ²
ATTIC LEVEL		
4 BED UPPER	613 ft ²	57 m ²
4 BED UPPER	613 ft ²	57 m ²
	1225 ft ²	114 m ²
	9872 ft ²	917 m ²



Better Together

A Linear Co-housing Prototype for Surrey

MIZA architects



Master Plan Design

Strategically placed co-housing projects connect lane ways mid-block. By activating this City-owned land and converting them into linear parks, the neighborhood becomes a connected network of pedestrian oriented pathways, overlaid on the existing road network.

Small-scale land buybacks from the City allow for dynamic linear parks with small places to pause on a walk or gather with neighbours. In time, as more properties take advantage of the increased density, additional mid-block connections are introduced resulting in an ever improving network of pedestrian accessible pathways.

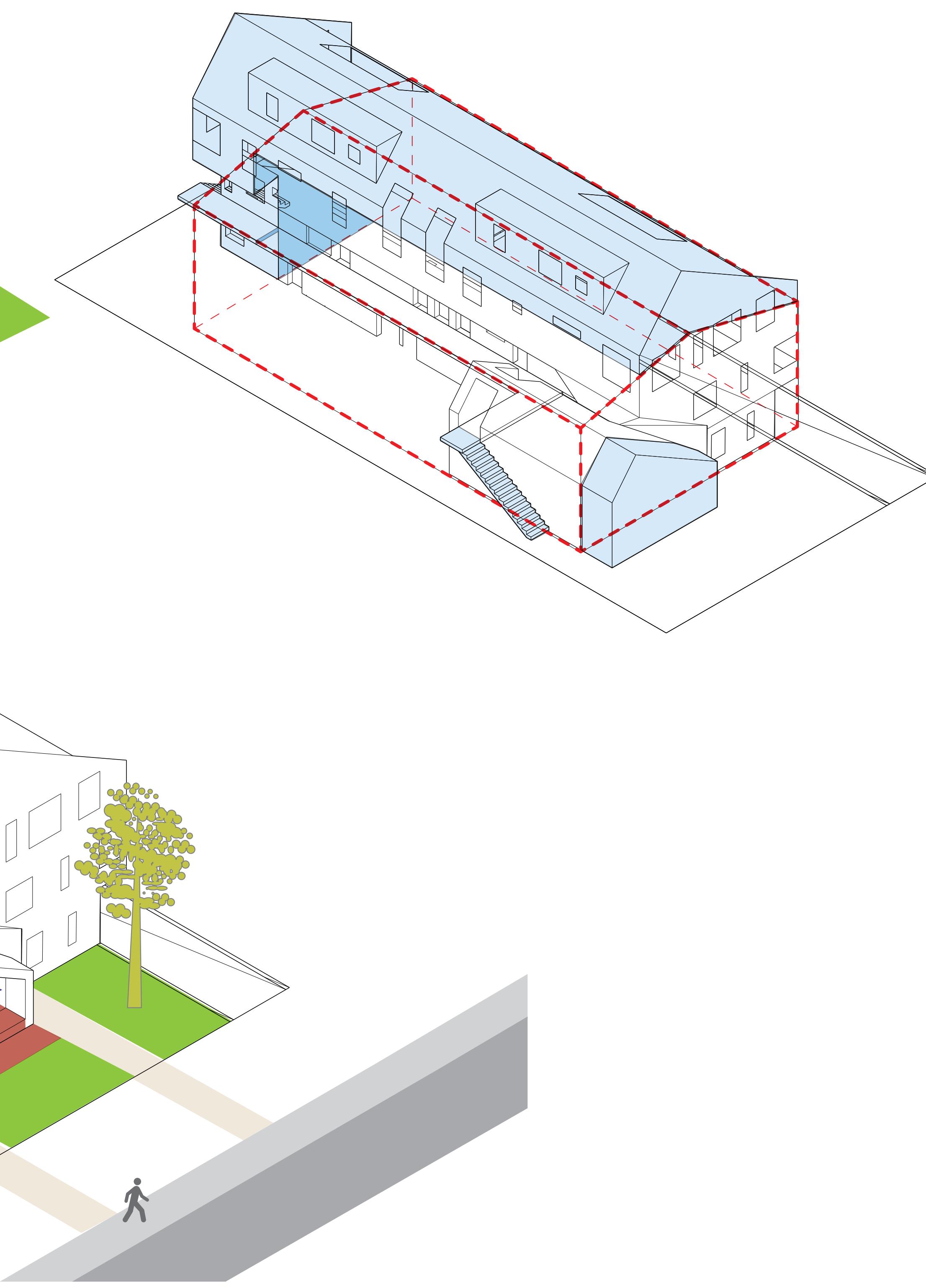
With commercial zones, Newton Elementary school and larger City parks all within a 1km radius, these precise changes to the master plan create a cohesive, walkable neighborhood that improve the quality of life for all residents, both existing and new and provide natural relief from the added density.

Without disrupting major road networks, the evolving Master Plan would become a dynamic neighborhood housing a diversity of families, businesses, small offices, and parks all within walking distance.

Zoning Commentary

The proposal attempts to meet the zoning guidelines in general, but as the site and zoning are intended for single-family dwellings, the project does diverge in some cases in order to achieve the required density and simultaneously preserve open space on site.

	Permitted	Proposed
Front Yard Setback	7.0m	7.4m 5.4m at CRU
Rear Yard Setback	7.0m	3.1m
Side Yard Setback	1.8m	1.8m / 1.5m
Maximum Height	9.0m	7.2m for flat roofs 12.8m
Parking	15 parking spaces required	11 parking spaces in below-grade parkade



LEGEND

- Commercial Floor Area
- Commercial Property
- Developed Residential Floor Area
- Co-housing Developed Property
- City Developed Linear Park
- City Purchased Property



- (A) Street facing Commercial units provide an opportunity for locally owned and operated small businesses to thrive.
- (B) Pedestrian walkway through the Co-Housing site connects laneways that are converted to linear parks.
- (C) Existing pedestrian paths are connected to City developed linear parks drawing foot traffic into the block and away from vehicles creating lively and safe communities.
- (D) City land buybacks allow for more dynamic linear parks with space more residents.
- (E) Multiple Co-Housing projects in one block allow further pedestrian oriented connectivity.



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