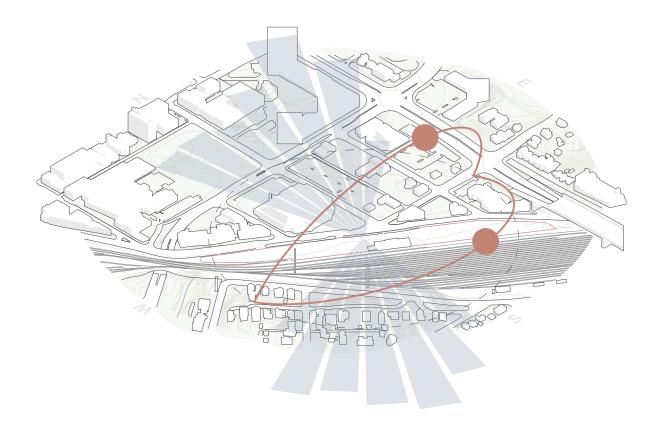
a tempered junction.

braeden martel + sarah wetteskind

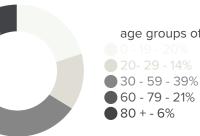
arch 4505 assmt 2c roch belair 12 / 16/ 2019



### site analysis // the city











types of dwellings (downtown) (3605) single detached household - 1420 apartment >5 storeys - 395 semi - detached house - 75 row house - 20 duplex - 465 apartment <5 storeys - 1230</p>

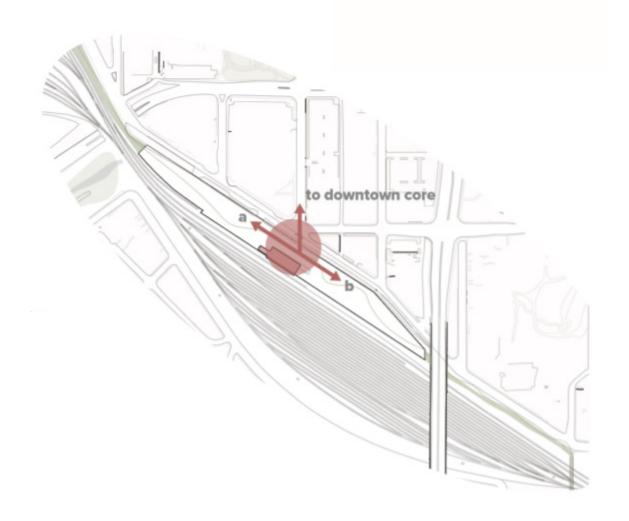
wind // sun

#### demographic diagrams

types of dwellings (greater sudbury) (68805) single detached household - 42485 semi - detached house - 3270

age groups of population (city of sudbury)

### site analysis // the site





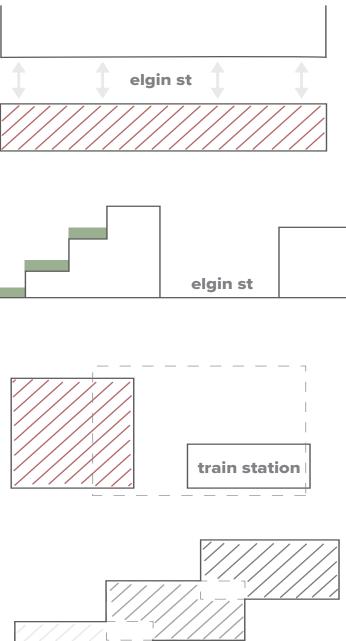
#### urban connection opportunities

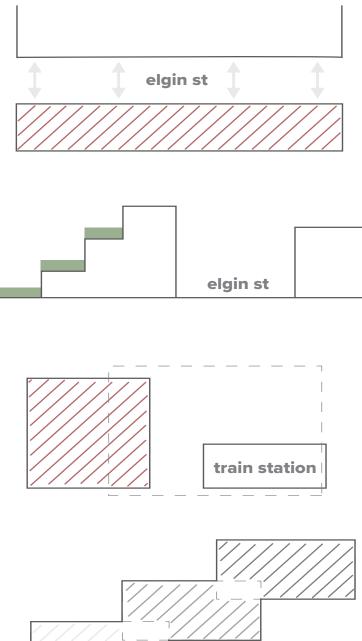
## thesis

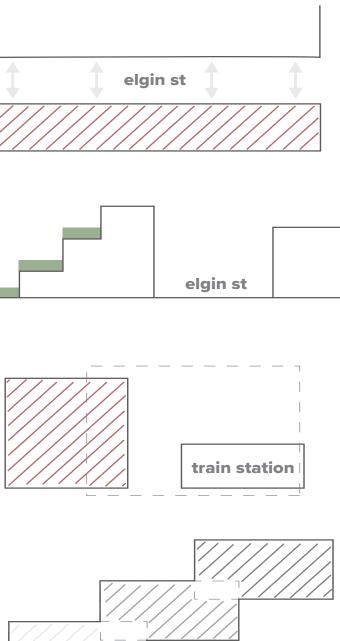
Given the transient nature the downtown of core our project aims to bring residential diversity and permanence back where it once was.

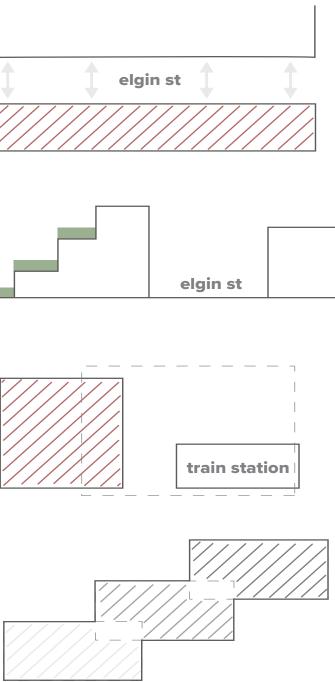
This will be done through:

- Offering public + semi private space
- Housing at the scale of mid-rise cohousing
- Opportunities for personal + financial growth
- A sense of privacy + pride
- A greenway that acts as a residential street for shared activity
- A unique urban residential relationship through the overlapping of programs









### precedents

semi private outdoor spaces

elevation of home from street

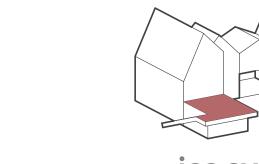


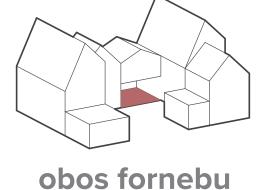


oopeaa

change

icc sydney





rra

transparent first storey

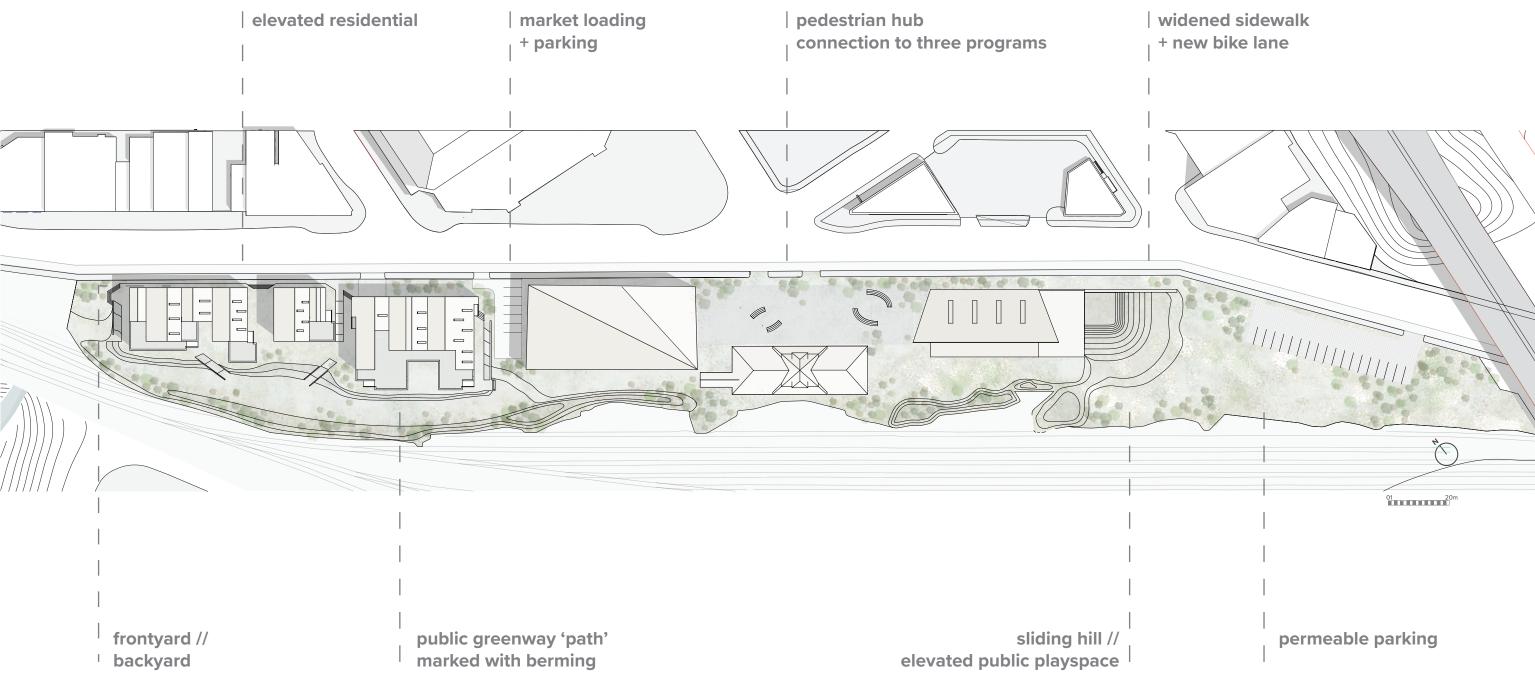
commercial below residential

eyes of the street // safety

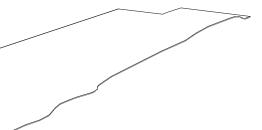
public green space elevation

street and backyard facades

## urban strategy

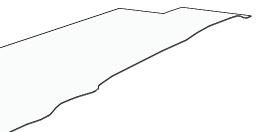


#### program relation

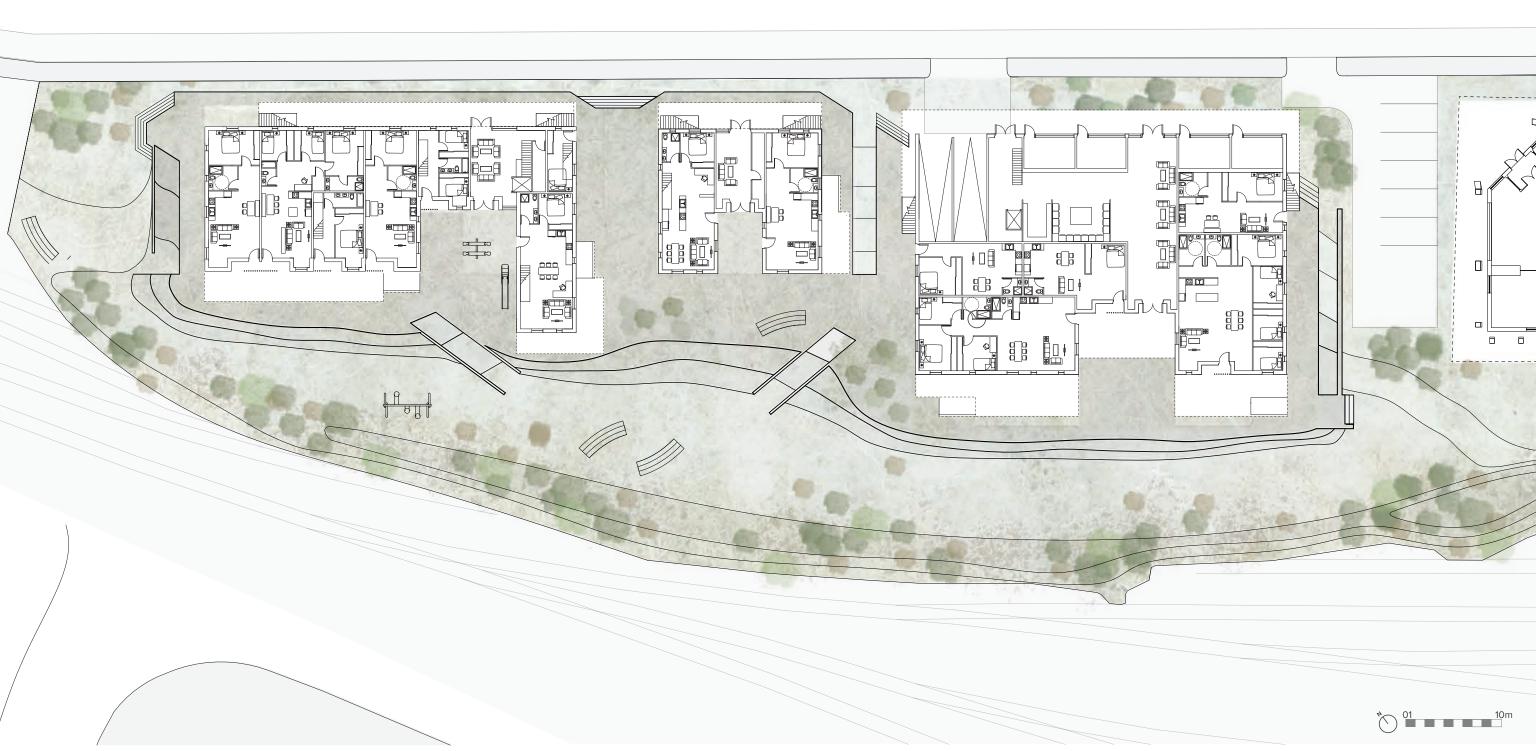


market residential business parking

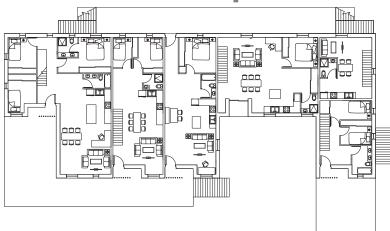
#### site axonometic

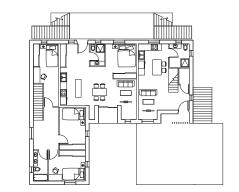


## residential // plans

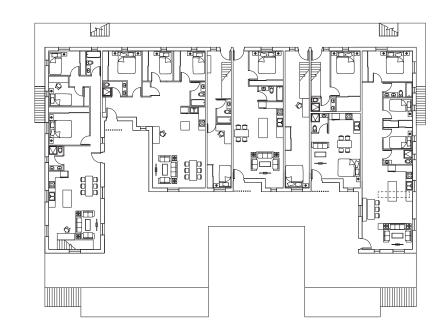


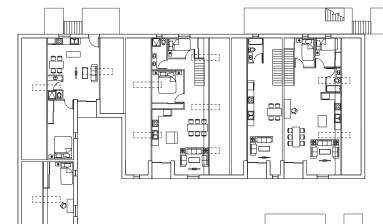
### residential // plans

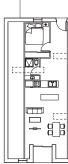


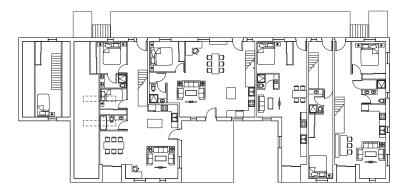


ভিন্থ

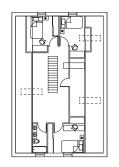














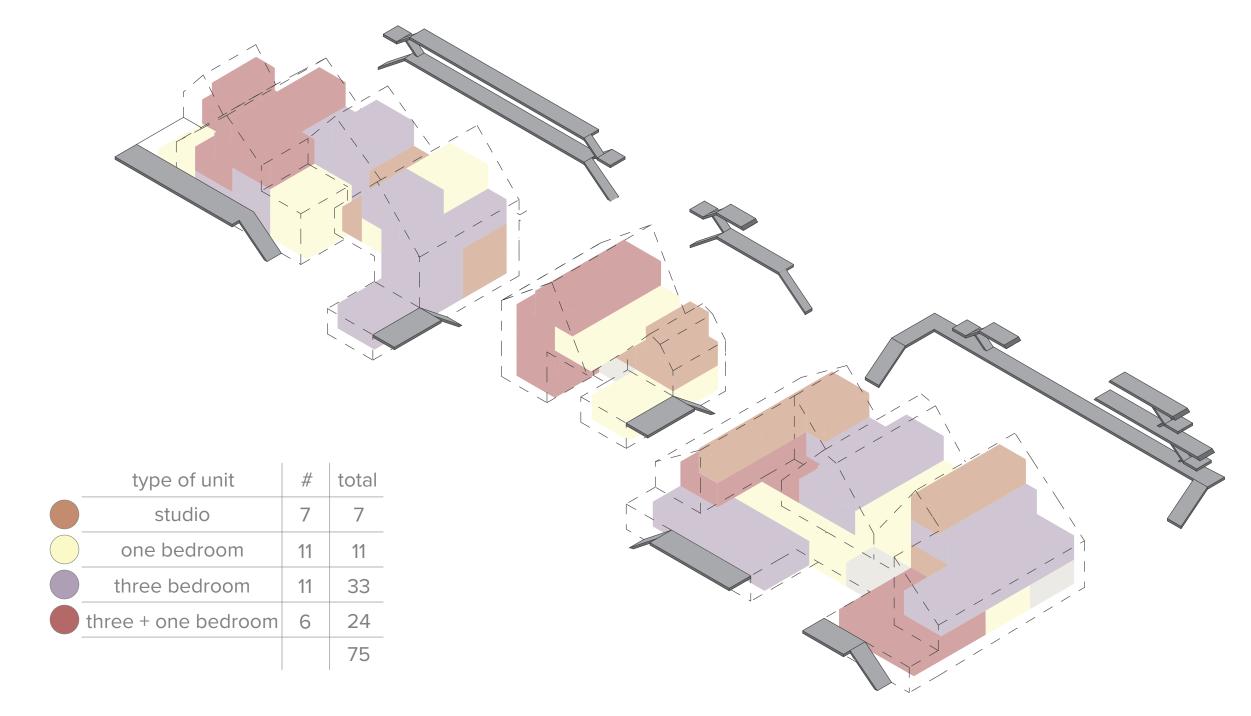




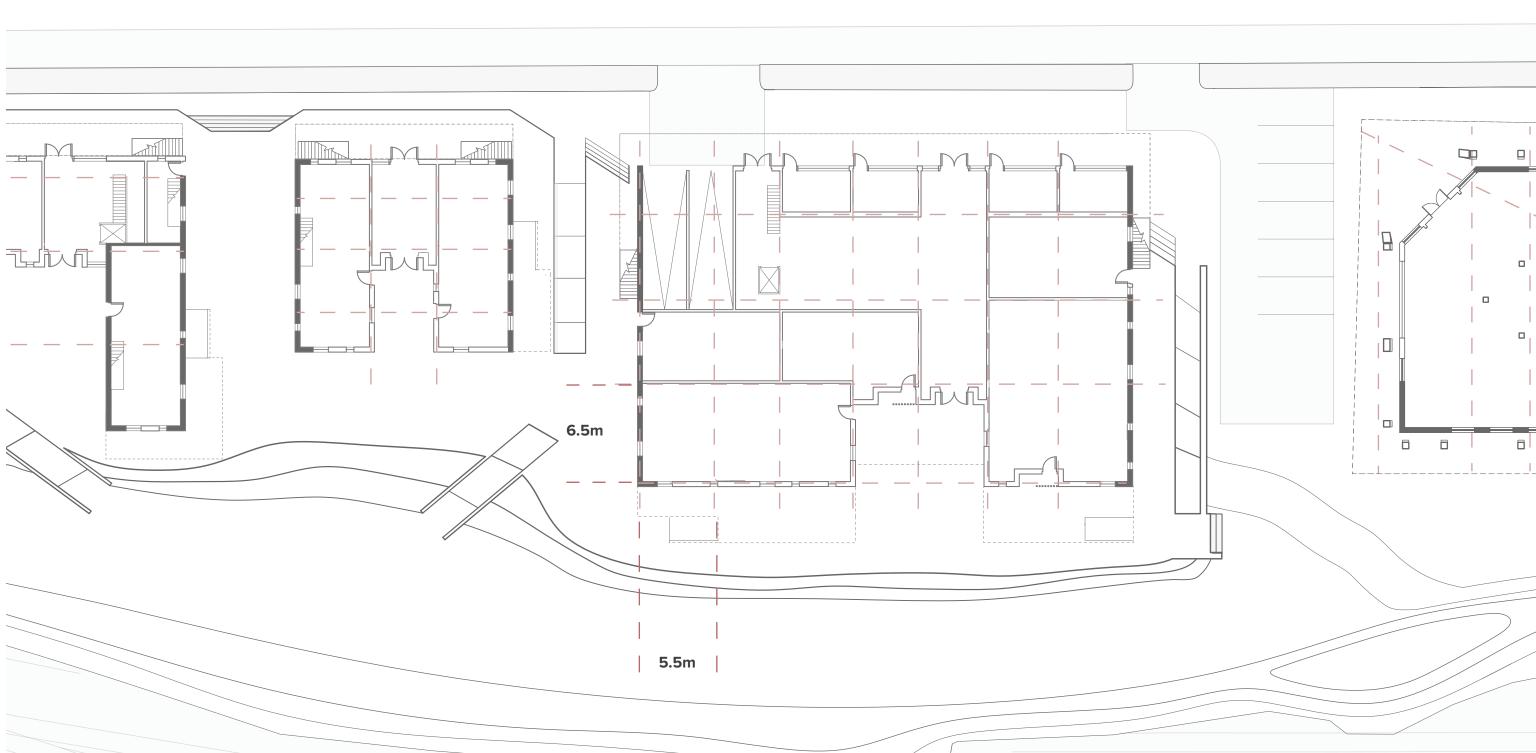




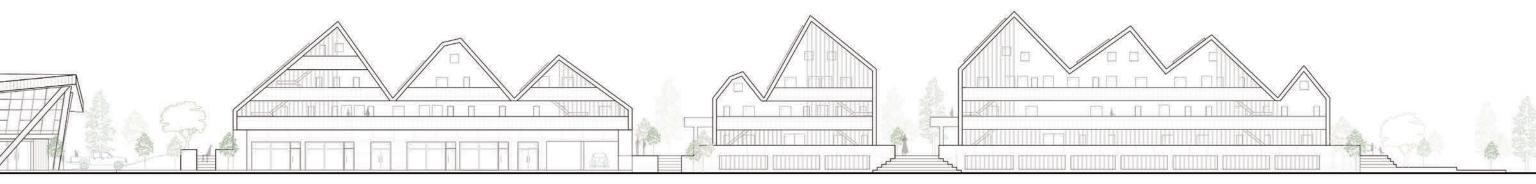
#### residential // unit distribution



#### residential // structure plans



#### residential // elevation



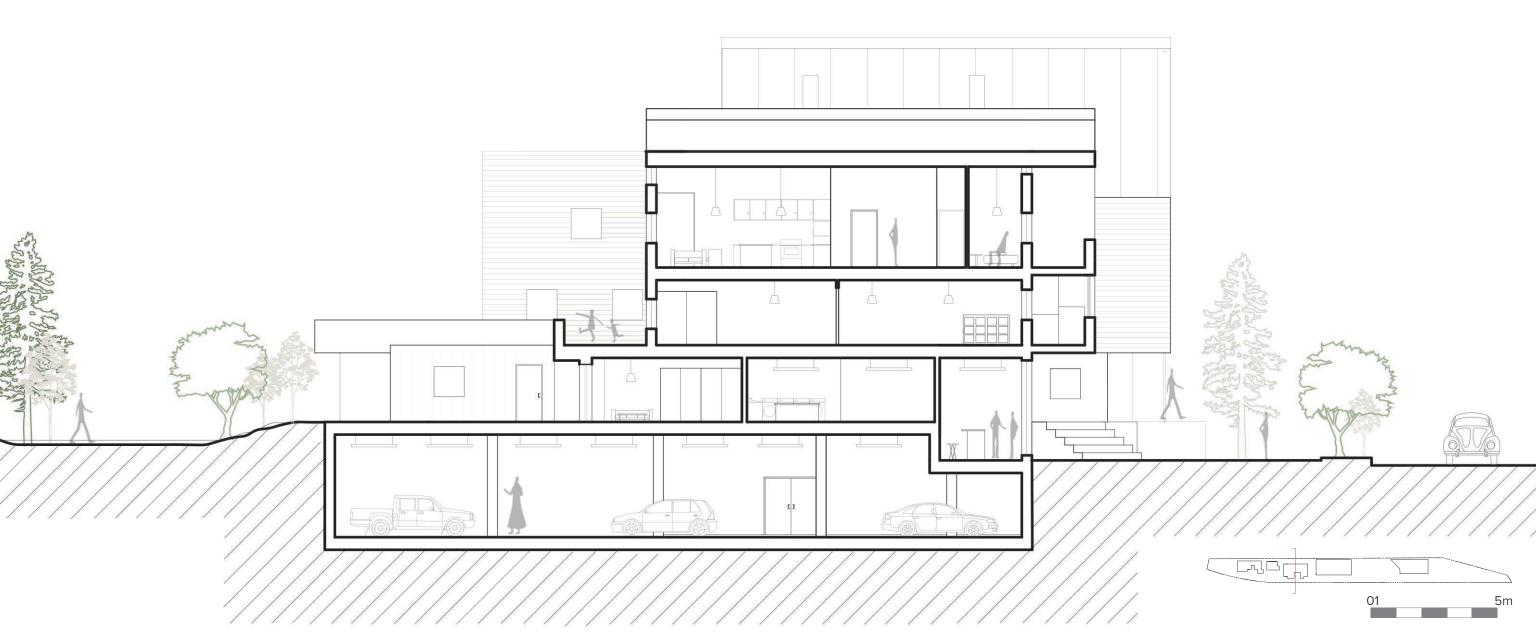


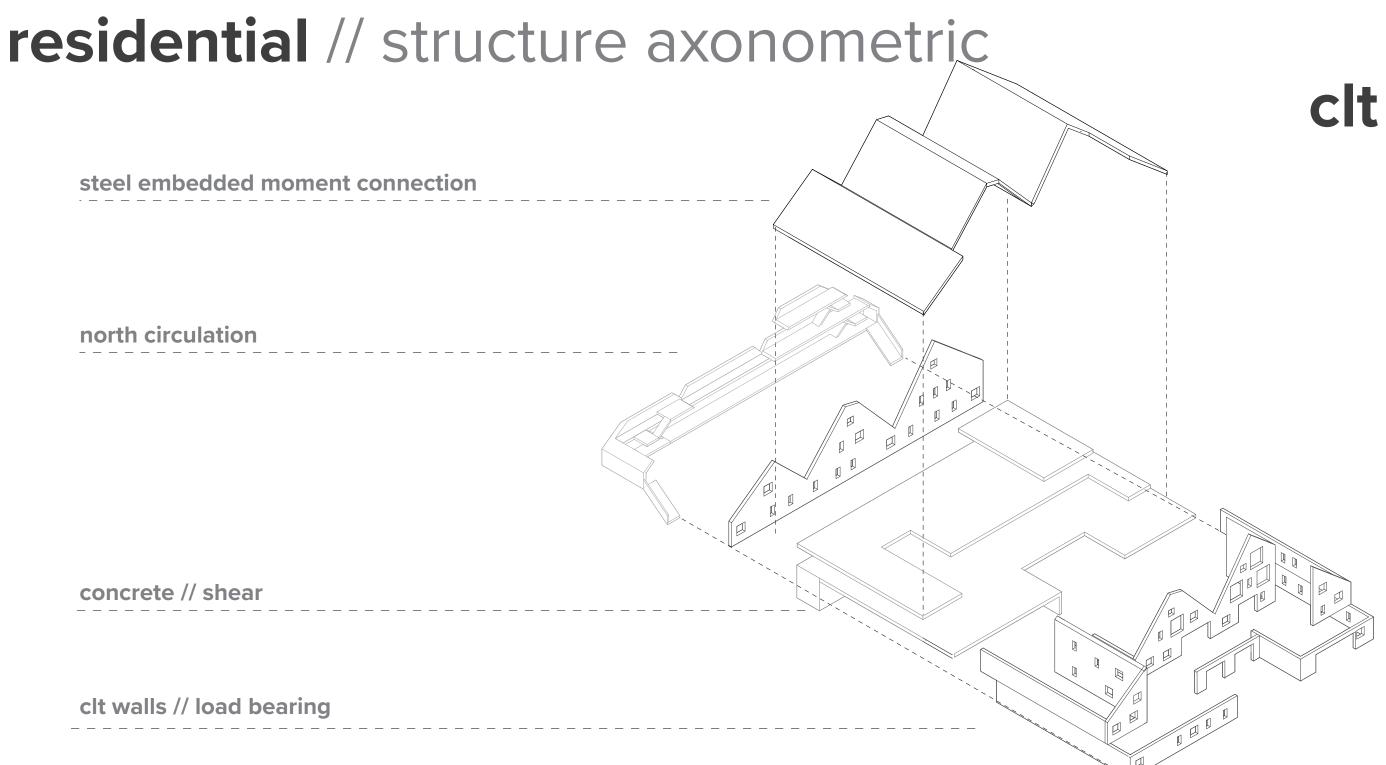
#### north

south

01 5m

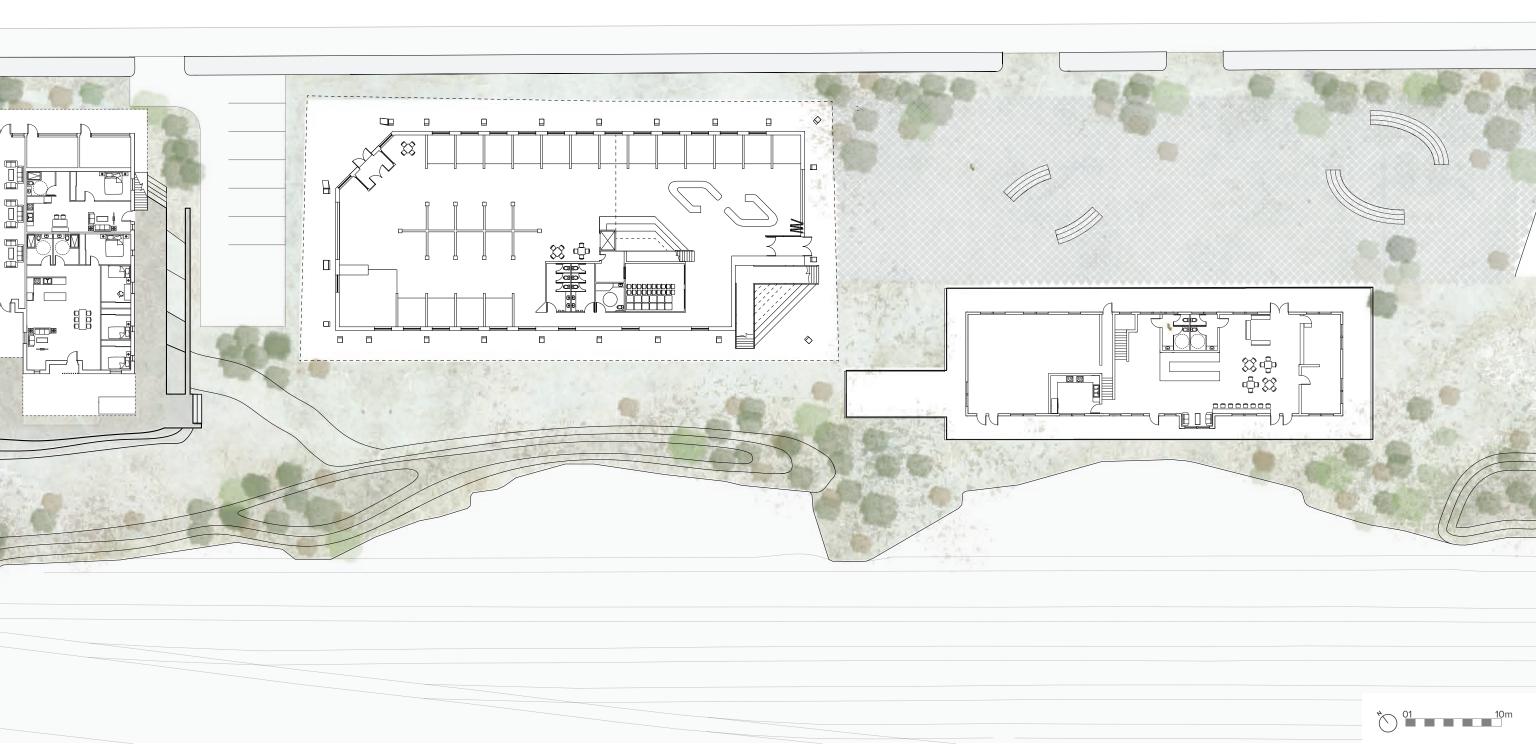
### residential // section



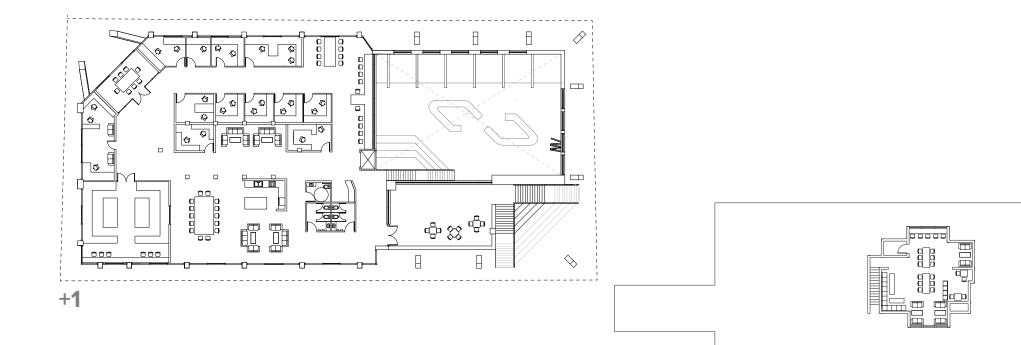




## market + coworking // plans

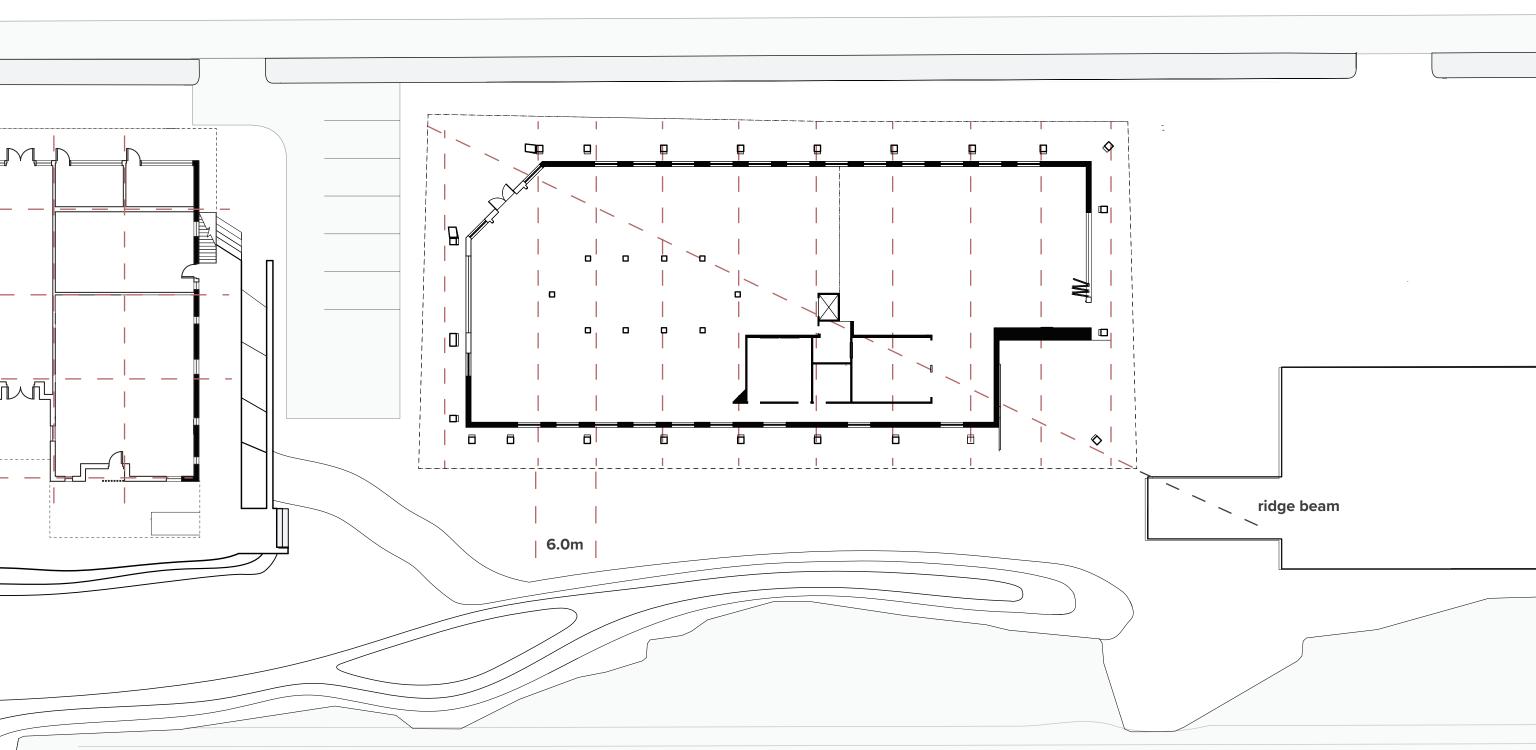


#### market + coworking // plans

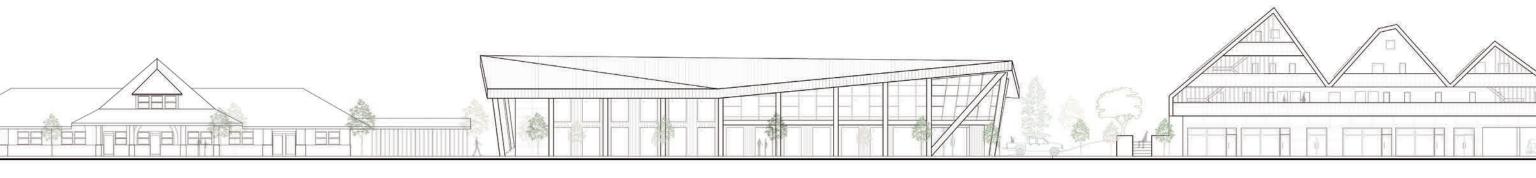


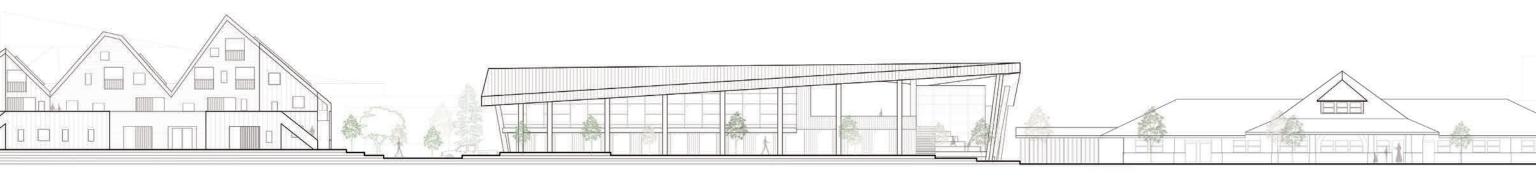


### market + coworking // structure plans



#### market + coworking // elevation



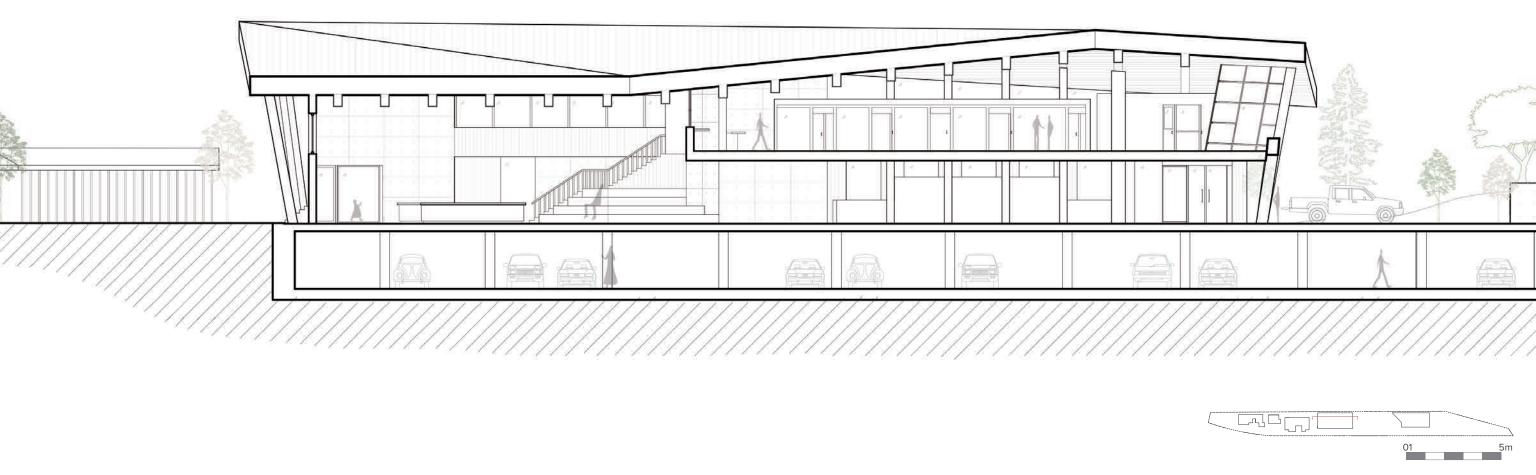




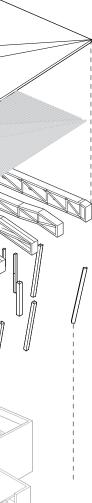
south

01\_\_\_\_\_5r

#### market + coworking // section

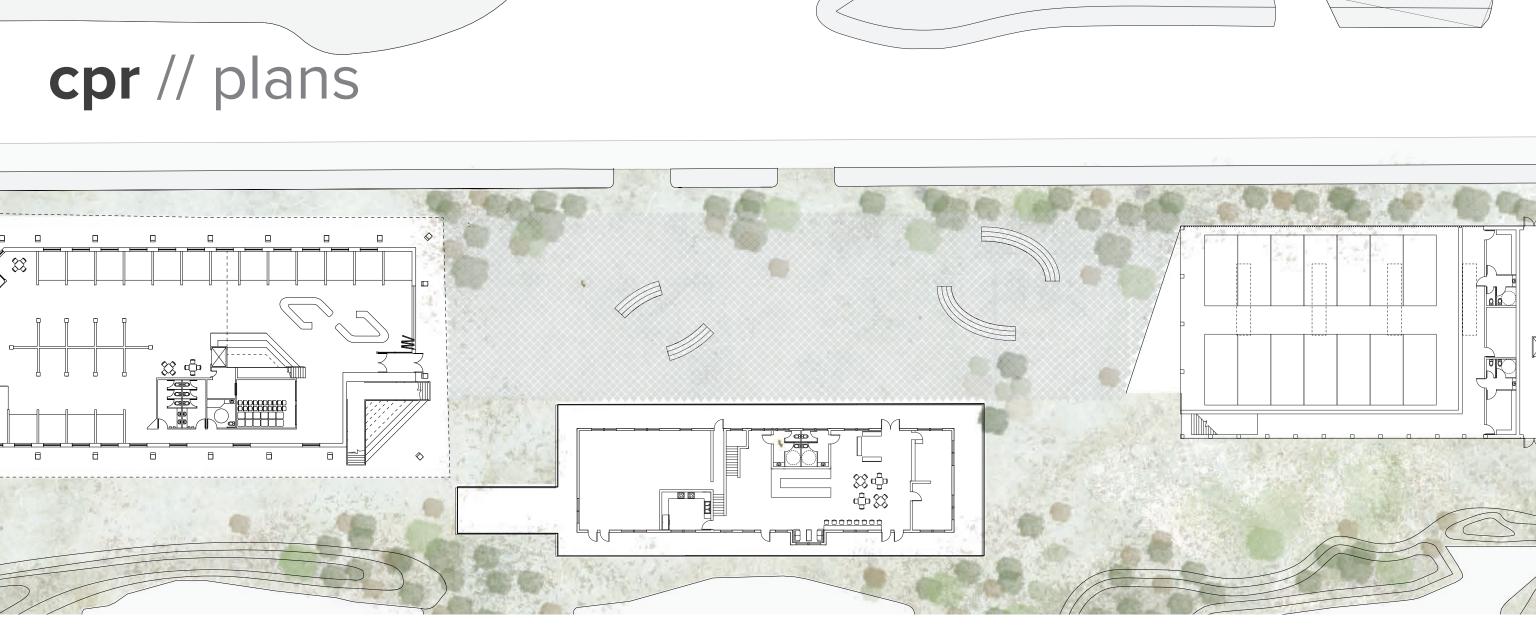


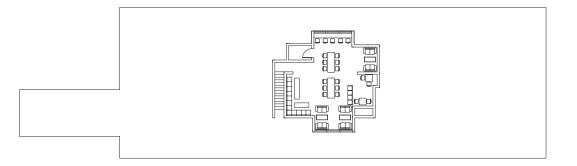
# market + coworking // structure axonometric decking // bracing trusses columns // load bearing concete core // shear clt panels // loading bearing



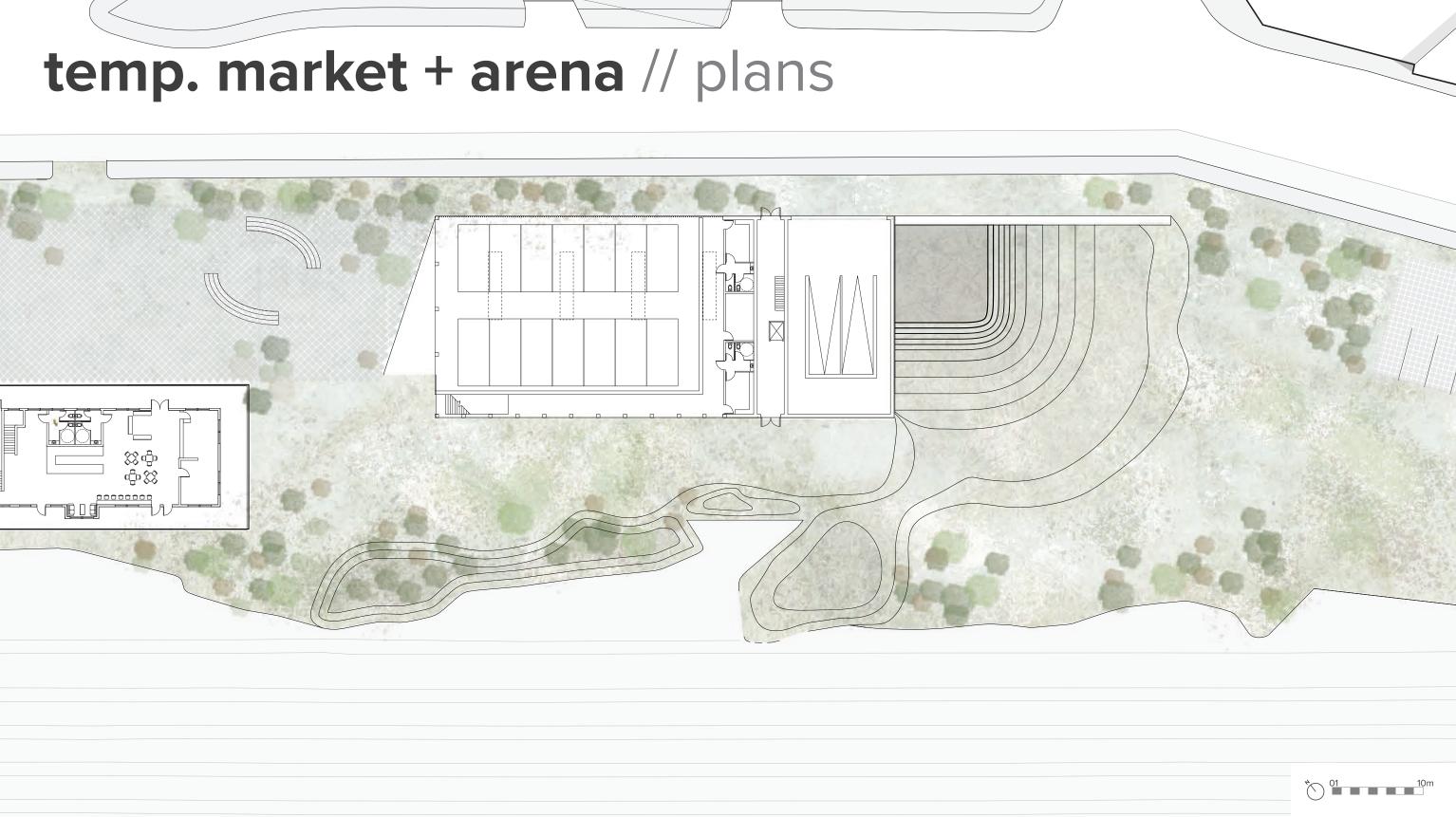




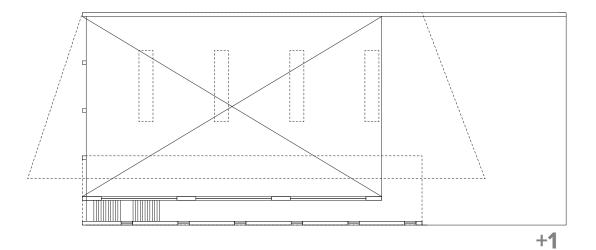


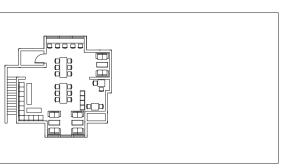






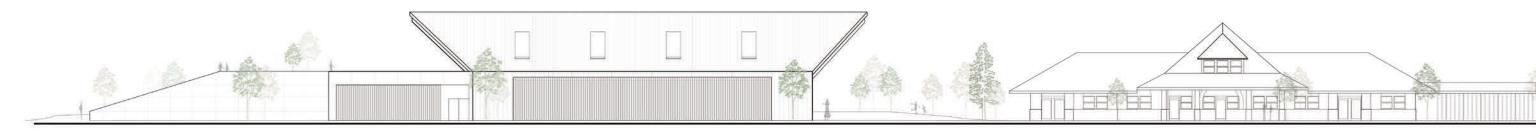
#### temp. market + arena // plans







#### temp. market + arena // elevation

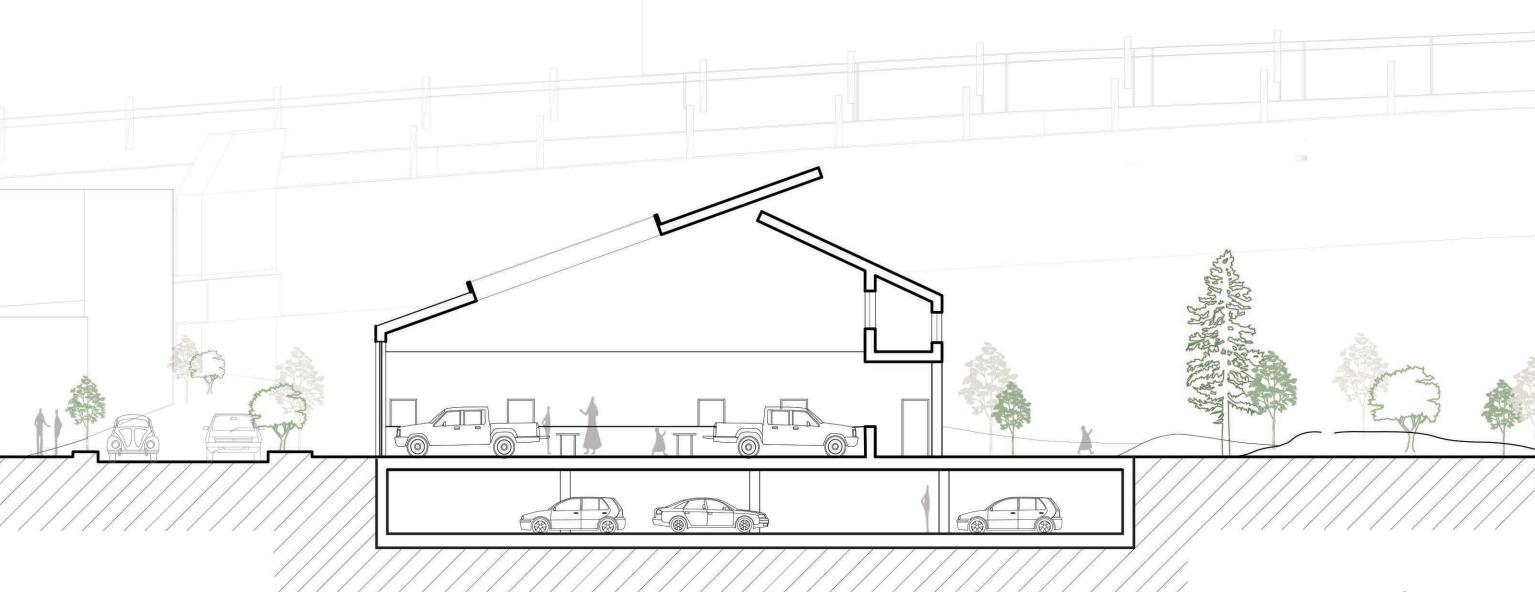






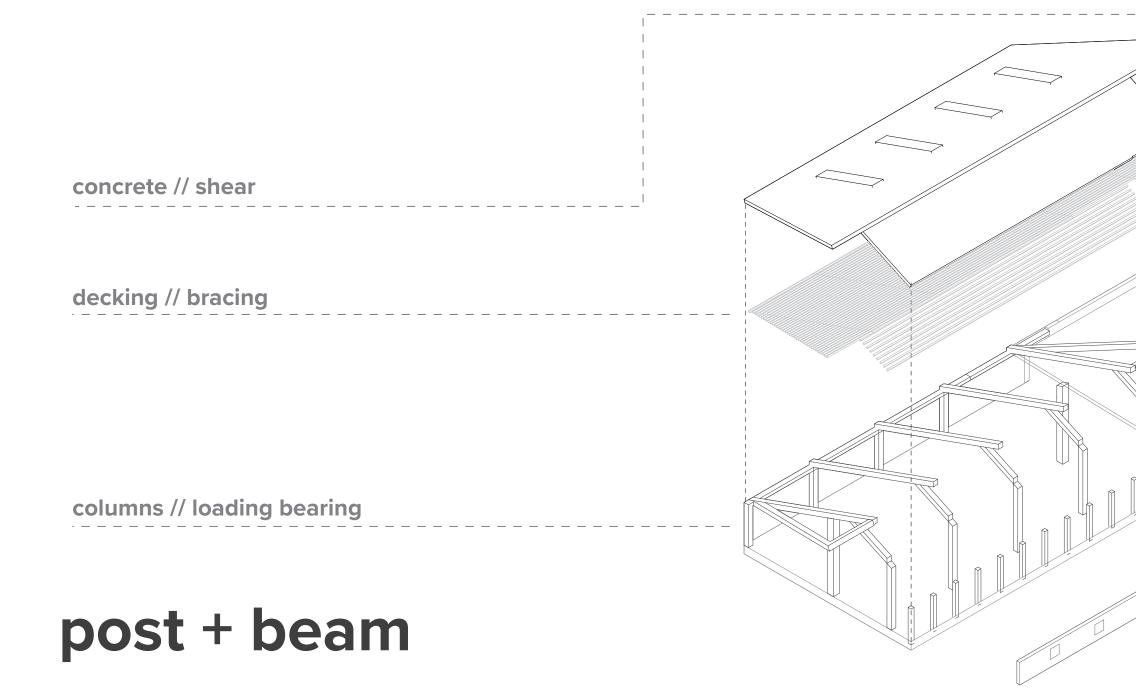


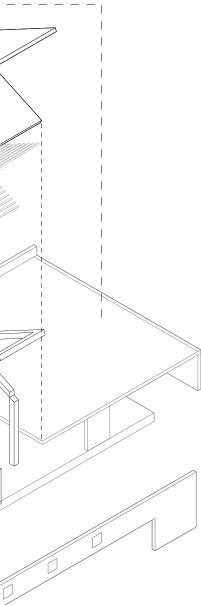
#### temp. market + arena // section



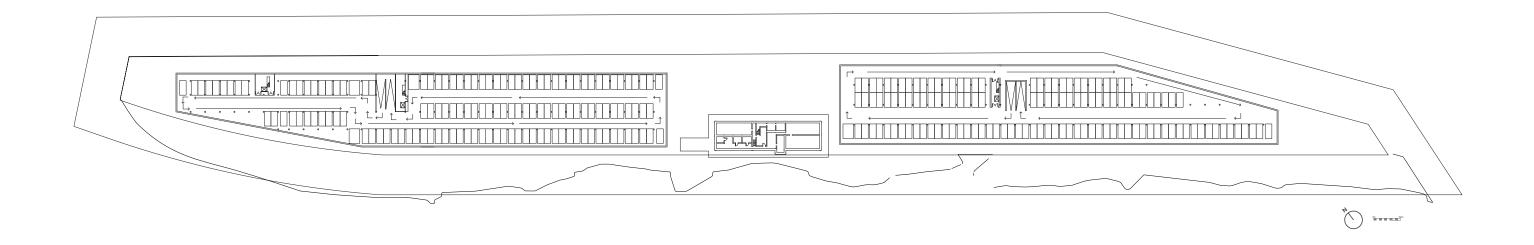


### temp. market + arena // structure axonometric

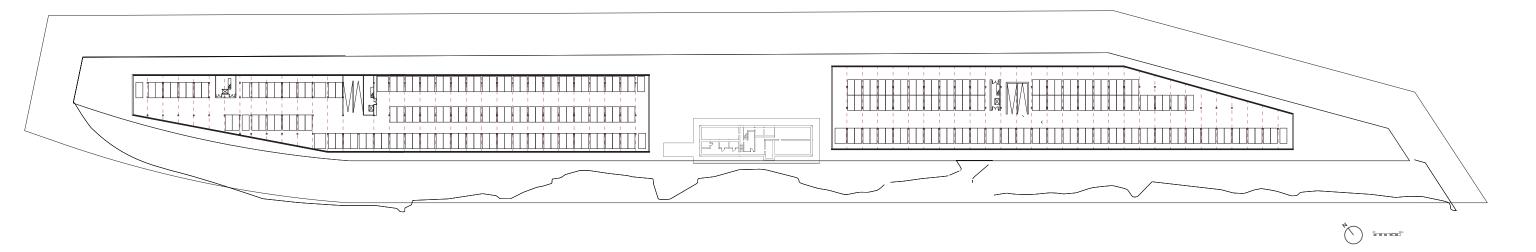


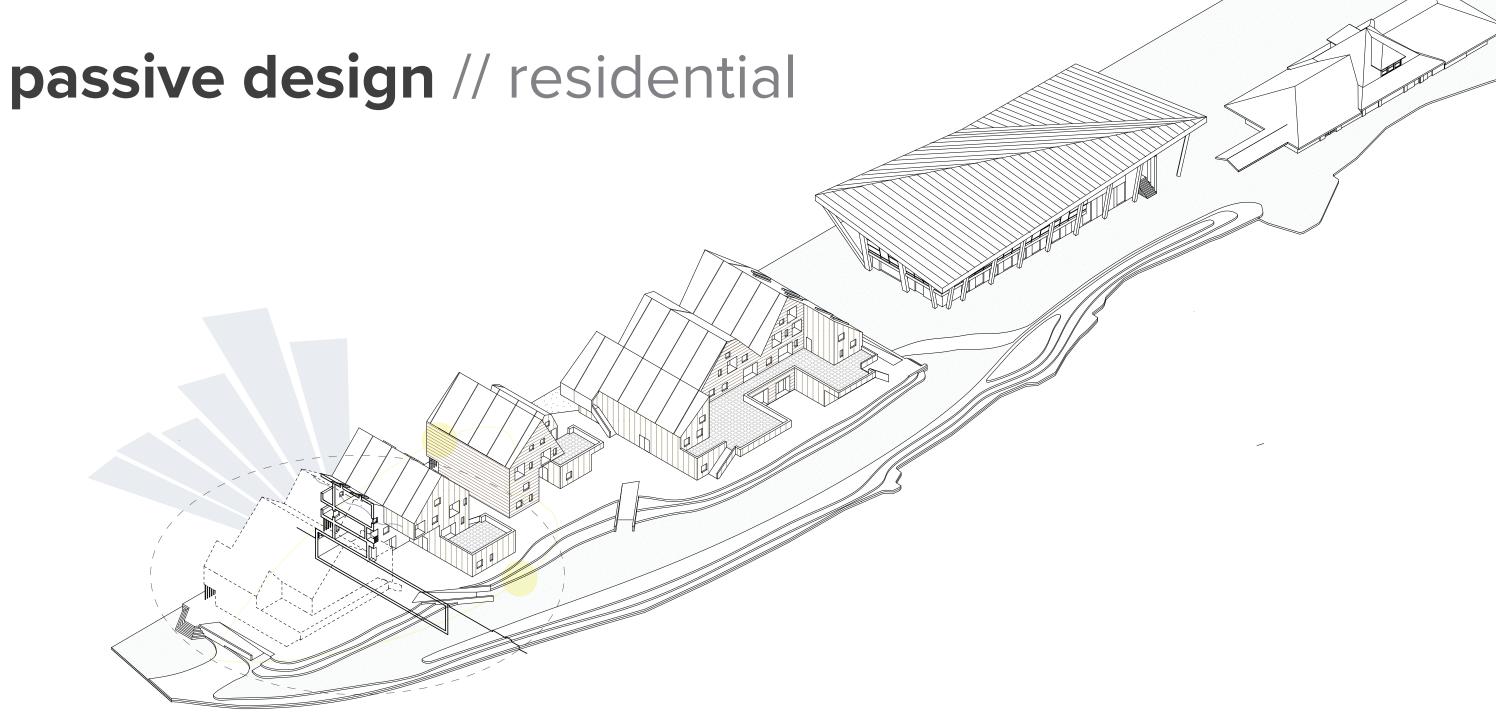


## parking // plans



### parking // structure plans

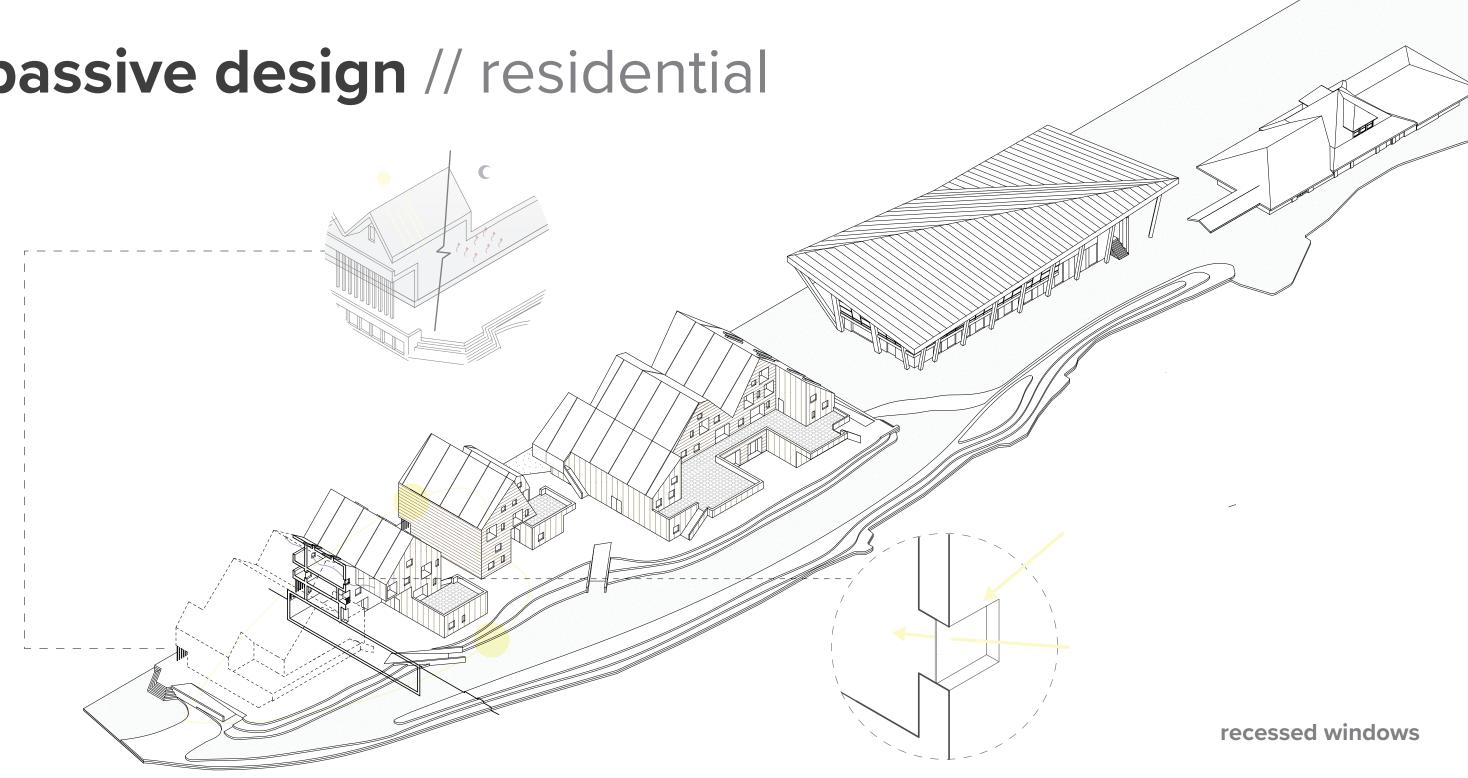




#### maximize solar gain

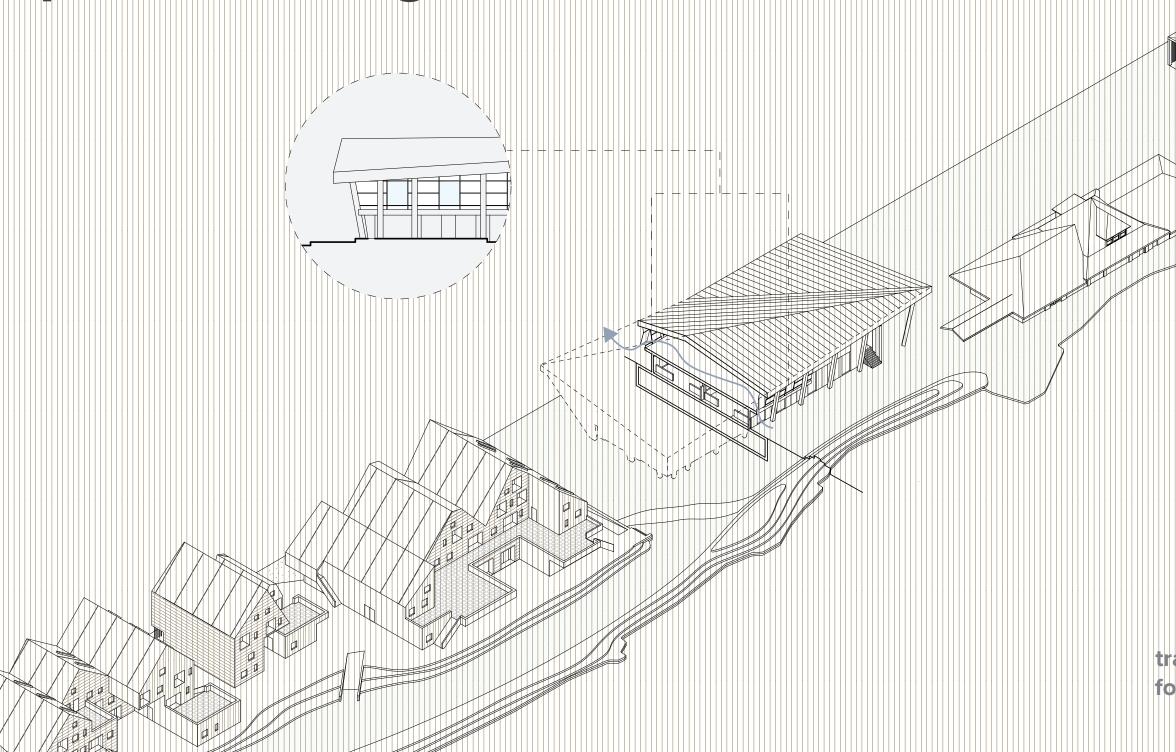
#### play space shelter belt

#### passive design // residential

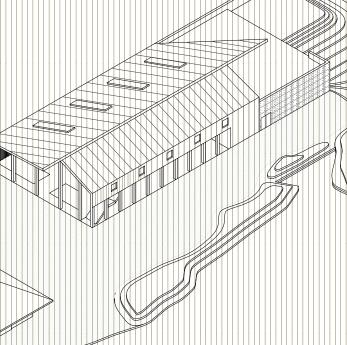


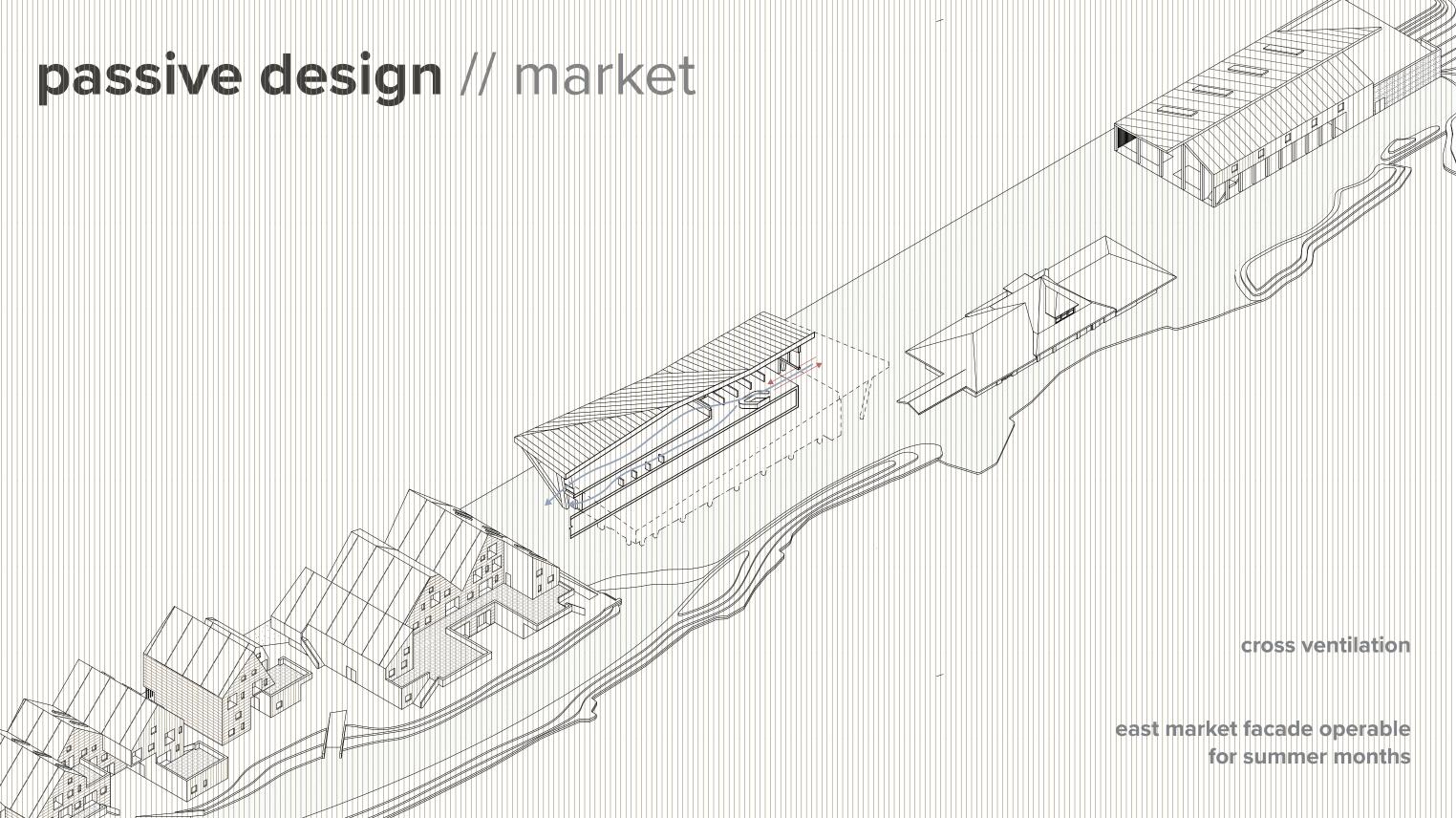
#### thermal mass

### passive design // market

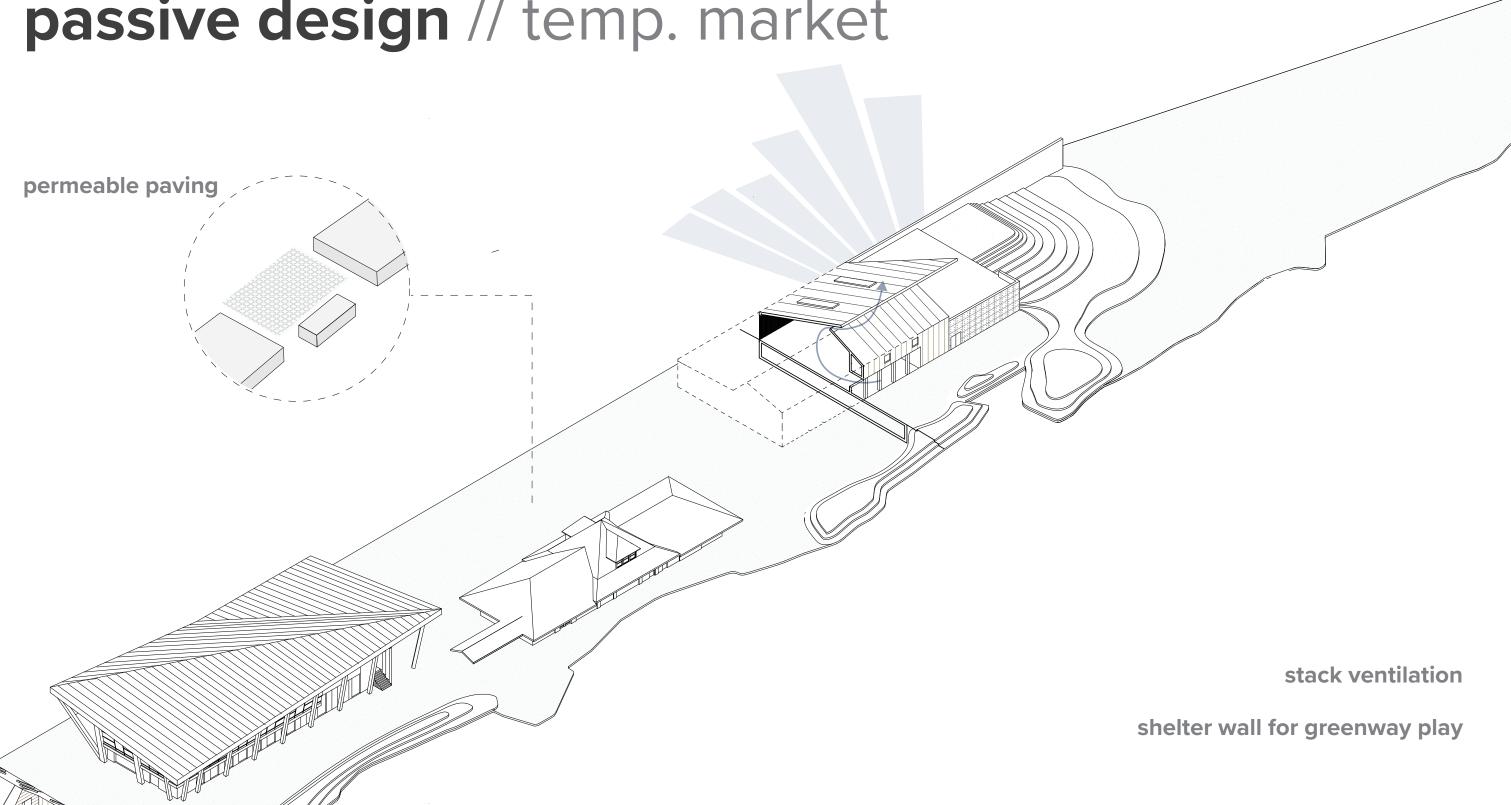


#### transparent and opaque glass for various exterior conditions

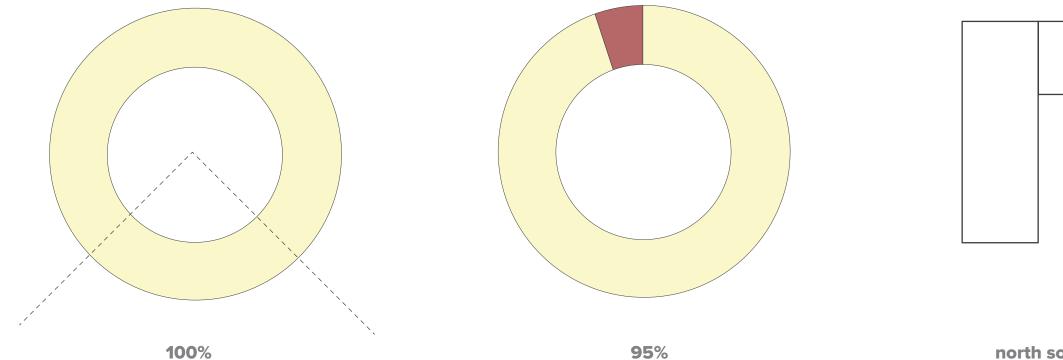




### passive design // temp. market



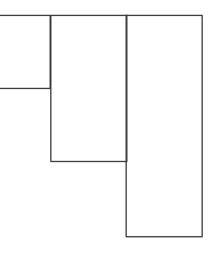
### daylighting // site strategy



100% units with SW - SE exposure

95% units with direct SW - SE exterior access

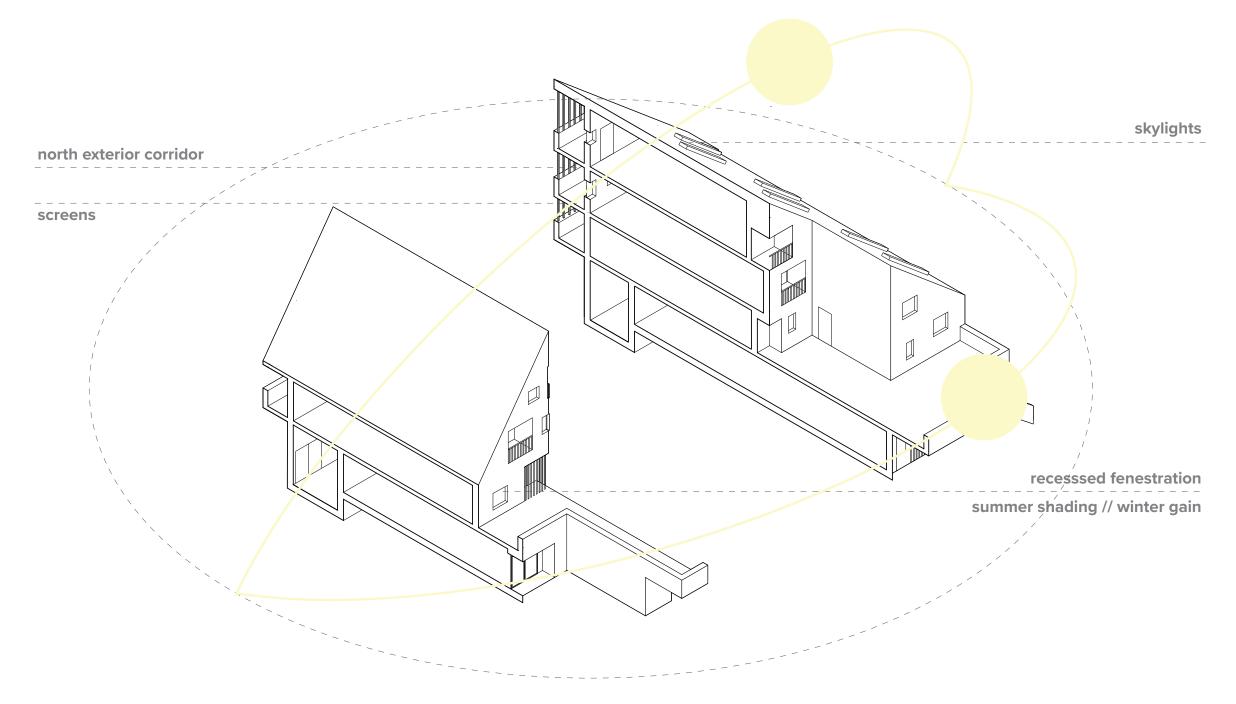




S

#### north south unit orientation

## daylighting // building strategy



### perspective // exterior market



## perspective // interior market



### perspective // interior residential



## perspective // exterior residential



#### end.

"Downtown Community Profile" A Healthy Community Initiative. City of Greater Sudbury. Accessed October 20, 2019 https://www.greatersudbury.ca/?LinkServID=D263BB00-E56F-F7EE-BD34E11AB5AE00F "Housing Market Information Portal." Housing Market Information Portal. CMHC. Accessed October 20, 2019. https://www03.cmhc-schl.gc.ca/hmip-pimh/en#Profile/2000/3/GreaterSudbury CMA.

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