minimum / maximum
A small scale dwelling environment within the large scale of Zuidas

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MSc 3/4 Architecture and Dwelling
‘At home in the city, Amsterdam Zuidas’

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Tutors:
Nelson Mota (Architecture)
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Ground floor, scale 1:500

Raised street level +1, scale 1:500

Option 1: height difference at facade

Option 2: height difference within + setback

Facade principle

Structural principle

Mass, voids, transitions between levels

Option 1: height difference at facade

Option 2: height difference within + setback
Larger open space within the block

Main street

View from the loggia of an apartment
Low-tech sustainability:
- Orientation: large openings to the south to gain passive solar energy and light, small windows to the north to minimize heat loss
- Zoning of functions: service zones north, living areas south
- Compactness: small on north side, tall on south side
- Thermal mass: thick facades, thick floors, green roof

Ventilation
- In: fixed flow inlet vents above windows (natural ventilation)
- Out: mechanical exhaust via kitchen, toilet and bathroom, via duct shaft and outlet through the roof

Heating
- Passive solar heating using south facade
- Floor heating