KANALENEILAND
IMPROVING THE LIVABILITY
BY REDESIGNING THE ‘STEMPEL’

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Structure

Context & history

Analysis

Theoretical framework
Research question

Concept

Final design

To conclude
Context & history
Wijkgedachte
(A. Bos, 1946)

The city is chaos
Cummunal living needed
Rational division in neighbourhoods
Stempelbouw
Design: C.M. van der Stad

First done in Pendrecht (Stam-Breese)

Celebrated neighbourhood

Popular name: Rozeneiland
3 revolutions

Demographic

Socio-political

Economic
Analysis
City
Kanaleneiland - city centre
City
Connection to the centre for cyclists
Neighbourhood
Strong places

Buildings
Water
Good places
Two 'Stempels'
Stempel
Green

Green area
Stempel
Pavement

Paved area
Stempel
No human scale

Ratio building height : open space 1 : 2
Ratio : human scale
Absolute: not human scale

Ratio 1 : 1.5
Ratio : human scale
Absolute: not human scale
Transition in privacy
Lack of buffer zones

Single-family house

Apartment building

1 2 3

1 2 3

Private zone
Semi-public zone
Public zone
Stempel
Parking

Parking places
Stempel
Private green

Private gardens
Private garden
Bad accessibility and no privacy

15 m
Stempel
Public ‘hidden’ places

Public spots inside ‘Stempel’
Building
Typology and space per person

Households
- 50% singles
- 25.8% families
- 15% couples
- 7.1% singles parent

Housing typology
- 84.8% flats
- 15% single-family houses
- 0.2% duplex
- 15% couples

Space per resident:
- Kanaleneiland: 23 m²
- Utrecht: 33 m²
Building
Inactive ground floor
Theoretical framework
Research question
Summary of problems

Privacy & control

Human scale

Vitality
Connection between problems

- Privacy & control
- Human scale
- Vitality
- Legibility
Adding mystery

- Privacy & control
- Human scale
- Vitality
- Legibility
- Mystery
Research question

How can we improve the liveability in the post-war modernist neighbourhood Kanaleneiland-Noord by redesigning / redefining the outdoor space?
Concept
Concept
The rose from ‘Rozeneiland’
Clear zoning
Legibility, Control of privacy, Privacy zoning
Legibility versus Mystery
Design for the Human scale

geometrical division of length a by employing the golden section
Connecting places
Legibility
Nature & architecture
Final design
City
Improving connectivity
Neighbourhood
Connecting strong spaces
Territories
(Habraken, 1998; Newman, 1972)
Semilattice
(Alexander, 1977)

Tree structure

Semilattice structure
Privacy zoning
(Van Dorst, 2005)
Legibility
Elements
Building configuration
Two ‘Stempels’ become one block
Principle
The ring
The block
Usable open space
Principle
The block
Principle
The block

- Decreased number of floors
- Increased number of floors
- Newly built sections
Principle
Access into the block
Access to the block
Columns in a ‘narrow’ passage
Principle
Place for the car
Block

Entrances to the blocks
Principle
The passage
The passage
Columns define the space
The passage
Possible functions on the squares
Principle
Access to the dwellings
Access to the dwelling
Section
Access to the dwelling
Informal control & privacy regulation
The building
Activating the ground floor
Building typology
Vertical & horizontal accents
Vertical & horizontal accents
Strengthened by columns and walkways
To conclude
Connectivity
Connecting the in- and outside
Human scale
Design for the pedestrian and resident
Privacy regulation
Gradual transition through different zones
Architecture & nature
Keep it legible, with a bit of mystery
THANKS FOR YOUR ATTENTION QUESTIONS?