1. Current situation: JvH street ends in nothing. No connection to Goudfazant or shipyard monument.

2. Proposition: create hub between site, Amsterdam North & Amsterdam city center.


4. Second intervention: iconic gate building introducing Amsterdam North on axis of JvH.

5. Gate building introduces dwelling program on the site mixed with work spaces & provides public view decks and green spaces.
Gate to North

PROBLEM STATEMENT

Most new building projects are focused on a specific program for which they are perfectly suitable. However, in these economically difficult times we need buildings that can easily adapt to changes in the market in order to produce the most efficient result. It is crucial that architects are dealing with an open design. The paradox that arises is that of creating an inflexible building that can adapt to unknown future changes while maintaining an expression that connects it to its surroundings for a long period of time.

Within this framework flexibility the dwelling types also aim at a diverse target group that by creating many different sized dwellings that range from starter apartments to family homes and luxurious penthouses.

Goal: to design a mixed-use building that has a long life span because of its flexibility and that adds value to its surrounding context. A building that offers a diverse range of dwelling types and sizes in order to appeal to a wide range of user groups.

CONSTRUCTION

The core provides structural stability and houses the vertical transportation services as well as the installation shafts. Door openings on all sides allow for maximum flexibility in program placement.

INSTALLATIONS

To allow maximum flexibility within the floor plan most of the installation services are placed within the floors and travel horizontally towards the vertical cores. Additional installation shafts are created in之间的 beams to bridge the vertical transportation services as well as the installation shafts. Door openings on all sides allow for maximum flexibility in program placement.

3-PART DEFINITION OF FLEXIBILITY

The framework consists of the main superstructure and offers endless possibilities for many different types of dwellings. Because of the framework's high floor slabs the building can house almost any function if future changes demand it.

CONSTRUCTION / SETS OF SCHEMES

The middle eight steel columns are connected to the core and are made stable by diagonal wind bracing. Installations can be placed inbetween the steel beams and connected to the core at several connection points.

CONSTRUCTION / Bbitset of SCHEMES

The core provides structural stability and houses the vertical transportation services as well as the installation shafts. Door openings on all sides allow for maximum flexibility in program placement.

INSTALLATIONS / SCHEMES

To prevent the building from twisting the four fields connected directly to the core are fixed with wind bracing. To allow maximum flexibility within the floor plan most of the installation services are placed within the floors and travel horizontally towards the vertical cores. Additional installation ducts for the bridge can be placed vertically next to the structural elements when needed.

RESEARCH LESSONS

The structural analyses provided the necessary data for the construction that allow both dwelling and work spaces.

The mounting analyses of Multifunk Solid 1&2 and Tetterode were important mixed-use examples.

The origination of installations in Solid 1&2 offers a high level of internal flexibility in the floor plans.

Multifunk showed the advantage of strategically placed construction voids to allow for free placement of inner walls and varying program sizes.

From left to right: the building acts as a gate introducing North and observing its identity behind the facade. Inside the building the flexible frame allows for floors to be placed at different heights, creating a dynamic mix of retail and offices. Because of the diversity in retail and office ranges of users can be placed in the building the dwelling, work spaces, bars, restaurants and green outdoor spaces. All dwelling types are based mainly on three concepts: durability, supply potential, and making a wider view less from the building entrance to theoutside.
### FACADE DETAILS SCALE 1:5

<table>
<thead>
<tr>
<th>Component</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor finishing</td>
<td>Concrete top floor 50mm</td>
</tr>
<tr>
<td>Acoustic separation</td>
<td>Panel 40mm</td>
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<tr>
<td>Frame reaction between beams</td>
<td>Panel 40mm</td>
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<tr>
<td>Floor resting</td>
<td>Panel 40mm</td>
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<tr>
<td>Facade panel</td>
<td>Glassfiber reinforced concrete panel 30mm</td>
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<tr>
<td>Extruded profile for facade cladding</td>
<td>Consoles &amp; T-profile</td>
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<tr>
<td>Water resistant foil</td>
<td>HSB element 100mm</td>
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<tr>
<td>Rail for sunshading screen</td>
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<tr>
<td>Facade panel</td>
<td>Glassfiber reinforced concrete panel 30mm</td>
</tr>
<tr>
<td>Steel Q-beam</td>
<td>440mm (height)</td>
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<tr>
<td>HSB element</td>
<td>100mm</td>
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**Note:** The diagram shows the structure and details of the facade with various materials and components used.
DIVERSE SUPPLY OF DWELLING TYPES

- **1 person**
  - 24 m² BVO
  - single room

- **32.4 m² BVO**
  - 1-2 persons
  - mezzanine

- **48.6 m² BVO**
  - 1-2 persons
  - family apartment

- **64.8 m² BVO**
  - 1-2 persons
  - single room

- **116.6 m² BVO**
  - 2-4 persons
  - family apartment

- **116.6 m² BVO**
  - 1-2 persons
  - bathroom with view

- **168.5 m² BVO**
  - 3-6 persons
  - large family apartment

- **168.5 m² BVO**
  - 1-2 persons
  - continuous space with high ceiling

- **168.5 m² BVO**
  - 3-6 persons
  - spacious family apartment

- **168.5 m² BVO**
  - 1-2 persons
  - continuous space with high ceiling

- **134.3 m² BVO**
  - 2-4 persons
  - connection to terrace

- **129.6 m² BVO**
  - 2-3 persons
  - family maisonette

- **168.5 m² BVO**
  - 2-3 persons
  - family maisonette

- **181.4 m² BVO**
  - 2-4 persons
  - spacious family maisonette

- **116.6 m² BVO**
  - 2-4 persons
  - connection to adjacent work space (233.2 m²)

- **233.6 m² BVO**
  - 2-6 persons
  - luxurious roof patio penthouse

- **337.0 m² BVO**
  - 2-6 persons
  - luxurious roof patio penthouse

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**BASIC PROGRAM DISTRIBUTION**

- **Apartments**
- **Dwellings**
- **Work spaces**
- **Horeca & entrances**
SELECTION OF DWELLING TYPES

DWELLING TYPE A
- 2-3 persons
- 116,6 m² BVO
- Spacious family apartment with double height living room and loggia
- Natural light in hallway
- SlimLine floors & Kerto-Ripa infill (interior walls & infill floors)
- Bedroom on terrace facade, bathroom on outer facade
- Clear line of view from entrance through kitchen
- Shown example is also connected to a collective view terrace

DWELLING TYPE B
- 1-2 persons
- 48,6 m² BVO
- Small starter apartment with mezzanine bedroom

DWELLING TYPE C
- 2-4 persons
- 181,4 m² BVO
- Spacious family maisonette with entrance on top floor

DWELLING TYPE D
- 2-4 persons
- 116,6 m² BVO
- Spacious family apartment with double height living room and loggia

LOFT XL
- 1-2 persons
- 168,5 m² BVO
- Continuous space with high ceiling, service element and mezzanine

XL-
garden
- 2-4 persons
- 168,5 m² BVO
- Spacious apartment with large loggia
- Natural light in hallway
FLOOR PLANS
SCALE 1:200

12th floor +42000
Restaurant, flexible workshop space & workshop space (right)

10th floor +35000
1 x M, 2 x L (left leg)

9th floor +31500
1 x M, 2, 1 x L, 1 x L2, 1 x XL2 (left leg)

7th floor +10500

6th floor +60500

5th floor +49000

4th floor +38500

3rd floor +21000

2nd floor +10500
1 x AP, 1 x A, 1 x B, 1 x B1 (left leg)

1st floor +67500

Ground floor +5250

Basement +5250

Basement +3500

Basement +26250

Basement +14000

7200

7200

7200

7200

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Gate to North

Dwelling Graduation Studio: At Home In The City | P5 Presentation | July 5th 2012

Thomas de Bos | 1210548 | panel 9 of 9

FLOOR PLANS
SCALE 1:500

Roof plan +71000
Public view terrace

5th floor +17500
1 x M, 2 x L (left)
1 x work space (right)

4th floor +14000
1 x S, 1 x M, 1 x L (left)
1 x work space (right)

3rd floor +10500
1 x S, 1 x S, 1 x L, 1 x XL (left)
2 x work space (right)

2nd floor +12500
Restaurant mezzanine (right)
Flexible work/event space (middle)
Workshop space (left)

1st floor +5250
2 x work space

Ground floor +0
Entrance halls
Bar & diner (left)
Ferry waiting area & lunchroom (right)