‘BREAKING THE BARRIER IN KOOG-ZAANDIJK’

LIVING, TRAVELLING, RE-USE OF INDUSTRIAL HERITAGE
Urban Regeneration: WHAT NEXT?
-densification within the 800 meter circles (10 min. walk to the station) of the station
-WHAT TO DO WITH THE INDUSTRIAL HERITAGE?
PROBLEM STATEMENT

HOW TO DEAL WITH THE BARRIER OF THE RAILROAD TRACK AND THE PROVINCIAL ROAD IN THE AREA?
PROBLEM STATEMENT HIGH FREQUENCY RAILWAY
Urban Regeneration: What Next?

Hybrid Building

Selection Location: Koog Zaandijk
BREAKING THE BARRIER IN KOOG ZAANDIJK
ADMCOCOA FACTORY

FIRST FACTORY BUILDING
- Old monumental facade back
- Reintroducing water structure
- Storage buildings can be re-used
BREAKING THE BARRIER RAILROAD STATION UNDERGROUND
HOW TO COMBINE LIVING, TRAVELLING, RE-USE INTO AN URBAN ARCHITECTURAL PROJECT?
A COURTYARD TYPOLOGY COMBINING RAVELLING, LIVING AND RE-USE, WITH THE STATION AS MOST PUBLIC FUNCTION IN THE CENTRE
PRINCIPLES USED IN THE DESIGN:

- two facades
  
  outside facade is load-bearing to provide the architectural character.

  inside facade, can change in time without affecting the character of the building, individual expression is possible

- big spans, few obstacles

- generous circulation space

- generous floor-to-floor height
  (ground floor, communicating with the street 5,0 meter, upper stories 3,6 m)

- raised floors and suspended ceilings

- over capacity

- durable materials
1. two facades
   outside facade is load-bearing to provide the architectural character.

   inside facade, can change in time without affecting the character of the building, individual expression is possible

2. big spans, few obstacles
   block 14 m depth, for sufficient daylight

3. generous floor-to-floor height
   ground floor, communicating with square 5.0 meter

4. raised floors and suspended ceilings

5. over-capacity in load-bearing structure

6. durable materials that last in time
7. generous circulation space

on every corner and end of a building
Vincent Paar

Urban Regeneration: What Next?

Hybrid Building

The Courtyard Elevation

- Continuity
- Calm Background
- Repetition of Small Parts
- Cuts
- Corner Solution
Hybrid Building

Urban Regeneration: What Next?
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The Courtyard Scenarios

Scenarios Plint:
1. Living on the Street
2. Living/Working
3. Living/Gallery Space
4. Retail
5. Office
EXHIBITION SPACE
MARKETHALL
CAFE / RESTAURANT

UNDERGROUND WORLD FUNCTIONS

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Urban Regeneration: What Next?
Market Hall Construction and Climate

Summer: Side facades openable for extra ventilation

Winter: Side facade closed - local heating, without disturbing food
UNDERGROUND STATION HOW TO DEFINE THE ENTRANCE?
1. Omnidirectional square geometry

2. Principle of double layer columns as facade transition space

3. Middle part is climax base-middle-top hole in the ground leading to the station border defined by glass—daylight, transparency

4. Movement downwards—emphasized in roof definition, stairs going down instead of up—daylight reflection in roof

5. Structural clarity a certain self-evidence balance in parts equal dimensions even amount of columns

6. Symmetry vs a—symmetry—asymmetrie roof

7. Lightness no ornament metal
MATERIALIZATION CONTRAST OLD AND NEW

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Materialization contrasts old and new
CLIMATE LIGHT AND VENTILATION
1. Rainwater discharge Ø 52 mm
2. 9.5 mm metal coated plasterboard
3. Steel Ø columns 4 × 60 mm
4. Steel railing Ø 50 mm
5. Toughened safety glass 8 mm panel 2300 × 6000 mm
CONSTRUCTION WATER DRAINAGE
CONSTRUCTION DETAIL ROOF EDGE

1. Metal rainscreen panel
2. Single layer waterproof membrane
3. Composite panel
4. HE80A
5. U100
6. Aluminium panels 2mm
7. Steel column 150mm
1. METAL RAINSCREEN PANEL
2. SINGLE LAYER WATERPROOF MEMBRANE
3. COMPOSITE PANEL
4. SPATIAL STRUCTURE: HE 160 A
5. METAL GUTTER
6. 50 MM DRAINAGE PIPE
7. STEEL ø COLUMN 4" 50 MM
8. ALUMINIUM CEILING 2 MM PANELS
CONSTRUCTION DETAIL

1. LIGHT GRAY CONCRETE COATING
2. 9.5MM METAL COATED PLASTERBOARD
3. LED LIGHTS
4. CONCRETE DRAIN
5. CONCRETE TILES 1250 * 1250 * 50 mm
6. SINGLE LAYER WATERPROOF MEMBRANE
7. PREFAB CONCRETE ELEMENTS 180 * 120 mm
1. Light gray concrete coating
2. 9.5mm metal coated plasterboard
3. Steel Ø 60mm columns
4. Prefab concrete elements (white coating)
5. Concrete drain
6. Prefab load-bearing element 800 * 400 mm
7. Rainwater discharge Ø 52 mm
8. Single layer waterproof membrane