INTERACTION OF LINES

folding, continuity, tensions

Border Conditions_Odessa
P5 presentation June 2011
Gerben Knol
01_RESEARCH

interests
Odessa
mapping
design location

02_PROGRAM AND TECHNIQUE

building program
folding

03_FINAL DESIGN

levels of interest
location translations
folding
construction

CONTENT
‘In architecture, the index does not point to a moment of physical contact between the designer and the fabric of the building, but it points instead to a set of virtual movements (cuts, displacements, grid shifts, shears, inversions, rotations or folds) registered through the abstract codes of representation.’

- STAN ALLEN, Practice: Architecture, Technique and representation
Area :: 1 Sceneric approach

The first mapped area is the node most to the eastern part of the city. The theme deals with three approaches to the main entrance of the Odessa harbor. By the use of Jim Jarmusch's Mystery Train as a reference relations between the approaches end up at the same place the timepath is mapped. First on the level of connections, second on the level of interpretation of the 'decor' and 'pieces'.

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This area consists out of two main tourist attractions of Odessa: the Potemkin Stairs and the only public accessible jetty of the Odessa harbor. The transition consists out of two stages: a visual connection between the two area's and a tunnel-like connection to cross the borderzone. The route can be considered as a sequence on these two levels, which vary greatly by the way of moving from A to B.
This node is the most closed node within the zone, although the level of penetration towards the harbor is the largest. The node requires all the space from the city towards the harbor and has therefore the most interwoven character. The development of the topographic underground and the 3-dimensional lines influenced the visibility on this important viewpoint out of the city.
By the means of interpretation this single track has the possibility of an own interpretation of time, routing and the objects along this track. The collage of lines and objects provide a representation suited to the most important objects and the way of crossing the borderzone.
streetdogs
## Program Brief

### 01 Dog Shelter

- **0101** Shelter collective space: 50 m²
- **0102** Indoor shelter-spaces (100*2m²): 200 m²
- **0103** Outdoor shelter spaces (20*3m²): 60 m²
- **0104** Outdoor playground: 200 m²
- **0105** Quarantine collective space: 50 m²
- **0106** Quarantine spaces (15*3m²): 45 m²
- **0107** Infirmary collective space: 50 m²
- **0108** Infirmary spaces (15 dogs*3m²): 45 m²
- **0109** Circulation space (20%): 140 m²

**Total:** 840 m²

### 02 Hotel

- **0201** Collective hotel space: 100 m²
- **0202** Restaurant: 100 m²
- **0203** Kitchen: 50 m²
- **0204** Other services: 100 m²
- **0205** Sports Facilities: 50 m²
- **0206** Wellness (combined with dogs): 200 m²
- **0207** Hotel rooms (20*25m²): 500 m²
- **0208** Circulation space (20%): 220 m²

**Total:** 1320 m²

### 03 Rabies Clinic

- **0301** Collective space: 100 m²
- **0302** Clinic rooms (5*20m²): 100 m²
- **0303** Circulation space (20%): 40 m²

**Total:** 240 m²

### 04 Playground

- **0401** Indoor playground / showroom: 600 m²
- **0402** Outdoor playground / showroom: 1000 m²

**Total:** 1600 m²

### 05 Parking

- **0501** 50 parking lots: 1250 m²

**Total:** 1250 m²

**Total:** 5250 m²
desired connections

desired long sections

extrusion

site boundaries

routing possibilities

program relations
'if there is a single effect produced in architecture by folding, it will be the ability to integrate unrelated elements within a new continuous mixture'

- GREG LYNN ‘folding in architecture AD (1993)’
computer modeling

triangulation

construction

topographic layer
public <> private
open <> close
flow <> stagnation <> shortcuts
natural light <> art. light
tensions <> visibility
continuity <> construction
5 strips
CNC fabricated steel sections (project 'dynaform' by Franken)
installations

ventilation ducts

dry sprinkler system

heather mat in floors

rain water inside
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