PERFORMATIVE NATURE

Barcelona International Landscape Architecture Biennial

September 2018 Barcelona

SCHOOL PRIZE

X International Landscape Architecture Biennial

Máster d'Arquitectura del Paisatge -DUOT - UPC
ETSAB- Escola Tècnica Superior
d'Arquitectura de Barcelona
Avenida Diagonal, 649 piso 5
08028 Barcelona-Spain

TECHNICAL DOSSIER

Title of the project	The park of connections - Bonarka
Authors	Michał Gzela
Title of the course	Landscape Architecture
Academic year	2015/2016
Teaching Staff	Urszula Forczek-Brataniec, PhD, Eng. of Arch. and Zbigniew Myczkowski, PhD, Eng. of Arch.
Department/Section/Program of belonging	Department of Open Landscape and Engineering Structures
University/School	Cracow University of Technology

Written statement, short description of the project in English, no more than 250 words

The subject of the thesis is „Bonarka", the industrial site and former mining area in Krakow, located at the junction of the Podgórze, Podgórze Duchackie and Łagiewniki - Borek Fałęcki districts. The area is concluded between H. Kamieńskiego street, W. Sławka street and J. Turowicza street.

The idea behind the project is land reclamation and revitalization that remains genius loci. One of the objectives of the project is to create communication links that refer to natural, historical, recreational and exposure aspects and overcome communication and ecological barriers.

The display of flora, as a migration corridor, water reservoirs and historical objects could build up the didactic potential of The park of connections - Bonarka.

The project development was based on Krakow municipal plans including a study of conditions and directions of spatial managment and the local spatial management plan.

For further information
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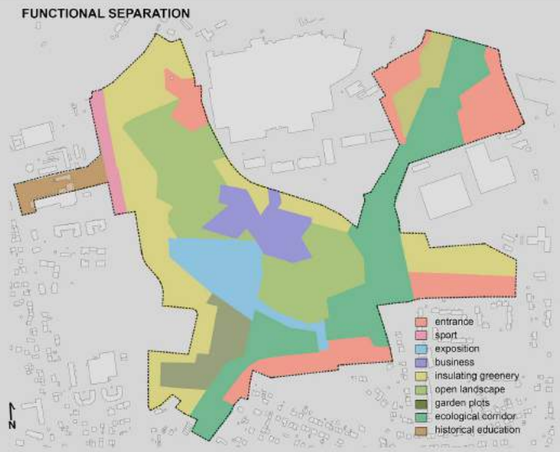
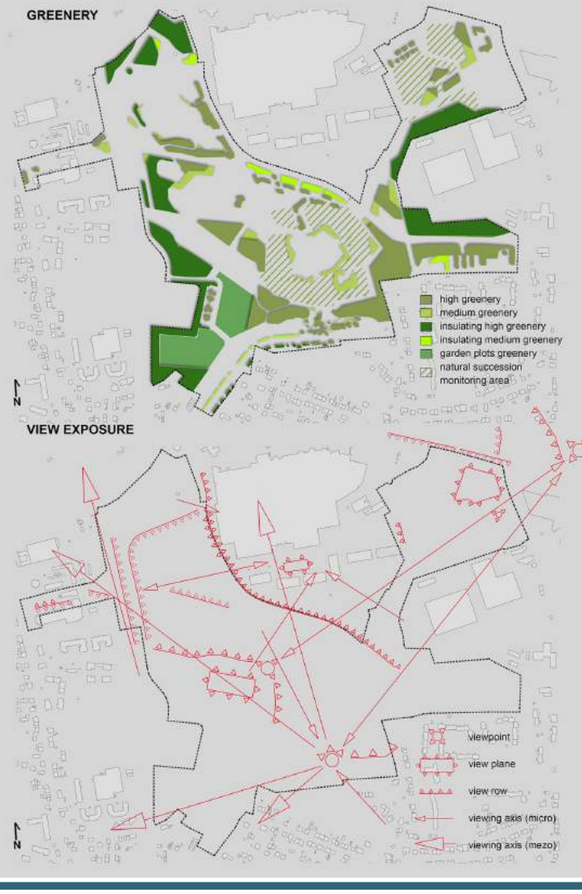
Consult the web page http://landscape.coac.net/

TOP VIEW

FUNCTIONAL SEPARATION



GREENERY



VIEW EXPOSURE

Country / City	Poland / Cracow
University / School	Cracow University of Technology
Academic year	2015 / 2016
Title of the project	The park of connections - Bonarka
Authors	Michał Gzela

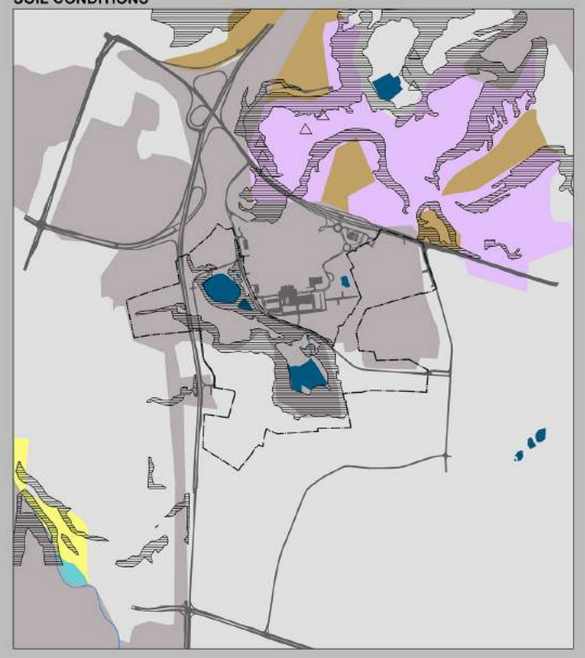
THE PARK OF CONNECTIONS - BONARKA DEVELOPMENT OF POST-INDUSTRIAL AREA

Cracow University of Technology | Faculty of Architecture | Landscape Architecture | Promoter: Urszula Forczek-Brataniec, PhD, Eng. of Arch. and Zbigniew Myczkowski, PhD, Eng. of Arch. | 2nd degree Master's studies, 2015 /2016 | Author: Michał Gzela

GEOLOGICAL CONDITIONS

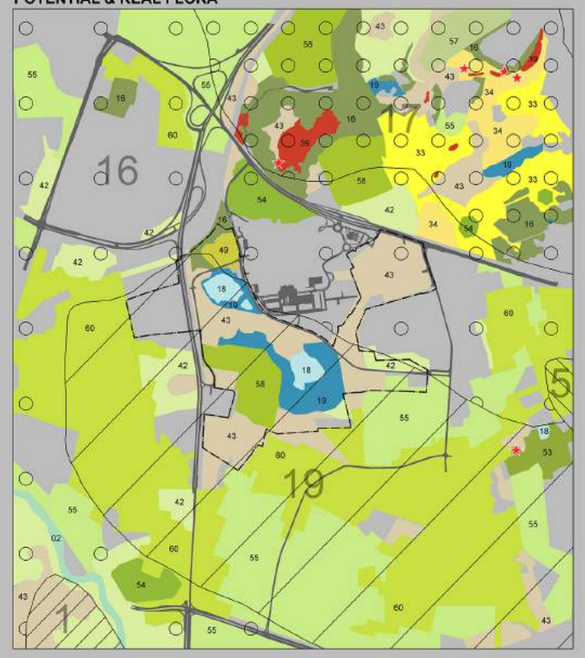
- buildings
- main communication
- sand, gravel, river silts
- sand, gravel, river muds
- limestone and flint
- limestone
- sandbars
- former mining area
- documented deposit of solid minerals

SOIL CONDITIONS



- water reservoir
- Wilga river
- main communication
- *Rendzic Leptosols, Calcaric Leptosols*
- *Dystric Cambisols*
- *Eutric Cambisols*
- *Haplic Fluvisols*
- *(Urbisols, Hortisols)*
- post-industrial soils *(Technosols)*
- slope > 12 %
- limestone & initial rendzinas

POTENTIAL & REAL FLORA



- main communication
- protected plants
- 02 riverside wicker
- 18 broadleaved forest trees
- 18 water plants
- 19 rushes
- 33 ryegrass fresh meadow
- 34 fresh meadow with xerothermix elements
- 39 xerothermic grassland
- 42 ruderal thickets
- 43 fallow
- 49 beaten places greenery
- 53 parks and historic gardens
- 54 other parks
- 55 street greenery
- 57 cementary
- 58 garden plots and orchards
- 60 home gardens

RESOURCE OF NATURAL ENVIRONMENT

- buildings
- inanimate nature monument
- highest natural values
- high natural values
- protected habitat
- green corridor
- ecosystem shaping zone
- inanimate nature reserve "Bonarka" *
- potential green corridor

POTENTIAL GREENERY:
1. Carici elongatae- Alnetum
5. Fraxino-alnetum
16. Tilio-Carpinetum Litt.-Pol., poor
17. Tilio-Carpinetum Litt.-Pol., rich
19. Tilio-Carpinetum, submont., rich

VALUABLE FAUNA:

Podiceps cristatus | *Acrocephalus arundinaceus* | *(Locustella naevia)* | *Tachybaptus ruficollis* | *(Acrocephalus scirpaceus)* | *Locustella fluviatilis* | *Acrocephalus palustris* | *Ixobrychus minutus* species under strict protection | *Lanius collurio*

THE HISPING OF THE MALOPOLSKA FISHING COMPOUND is located on the pond between the brickyard and the Bonarka City Center shopping mall.

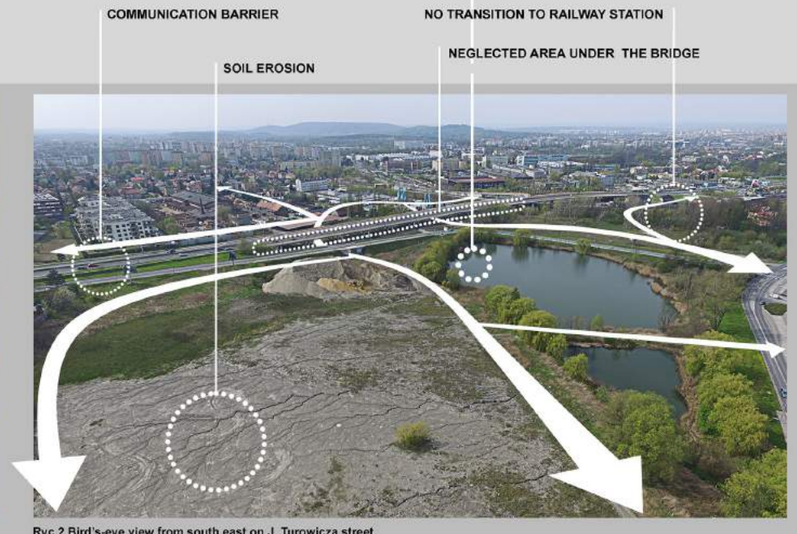
The most-caught fish include:
- Perch (Perca fluviatilis),
- Common pikefish (Esox lucius),
- Pike perch (Sander lucioperca).

The contamination of ponds with anthropogenic waste and eutrophication lead to a reduction in the amount of fish.
Area of ponds: 3.09 ha

* NATURAL RESERVE "BONARKA":
uncovered Jurassic, Cretaceous and Tertiary forms, characteristic of the geological structure of Krakow. The landscape and scientific value of this area is so large and unique that the legal basis for protection is the Ordinance of the Minister for Forestry and Wood Industry dated July 27, 1961 on recognition as a nature reserve (M.P. No. 73 item 310).
The reserve has mainly a didactic function and is characterized by biodiversity. In the reserve, didactic paths connecting rock unveils were designated.
Area: 2.29 ha

PROBLEM IDENTIFICATION:

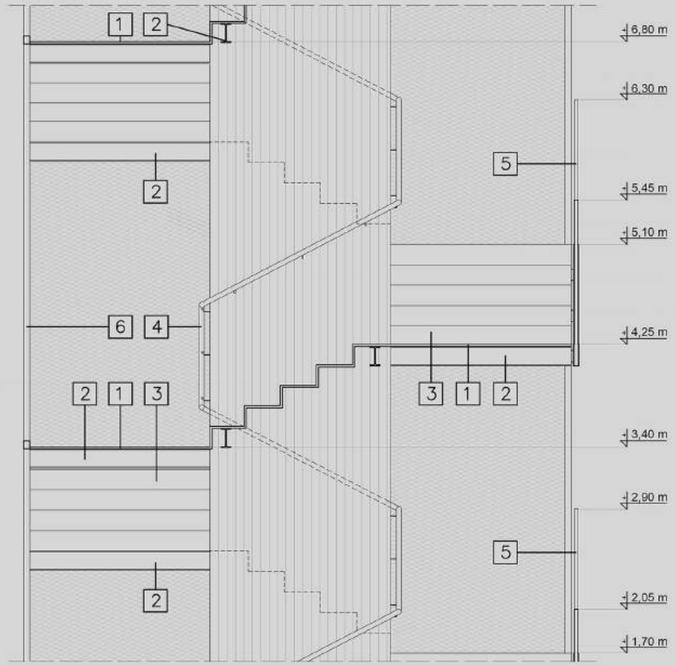
Ryc.1 Bird's-eye view from north west.



Ryc.2 Bird's-eye view from south east on J. Turowicza street.

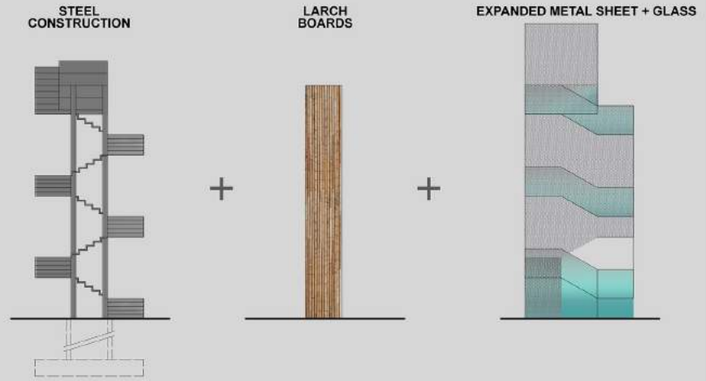
Ryc.3 Bird's-eye view from south on Bonarka City Center facility.

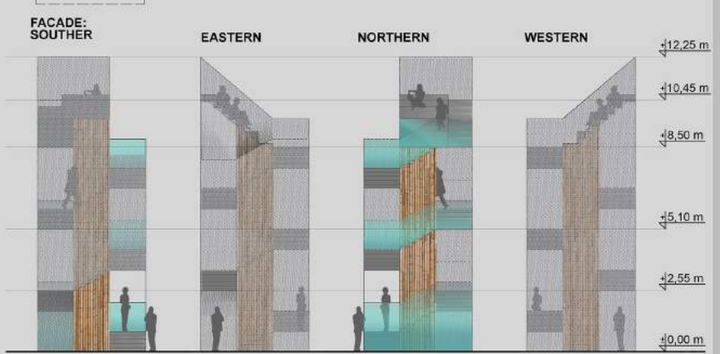
SECTION/ OBSERVATION TOWER



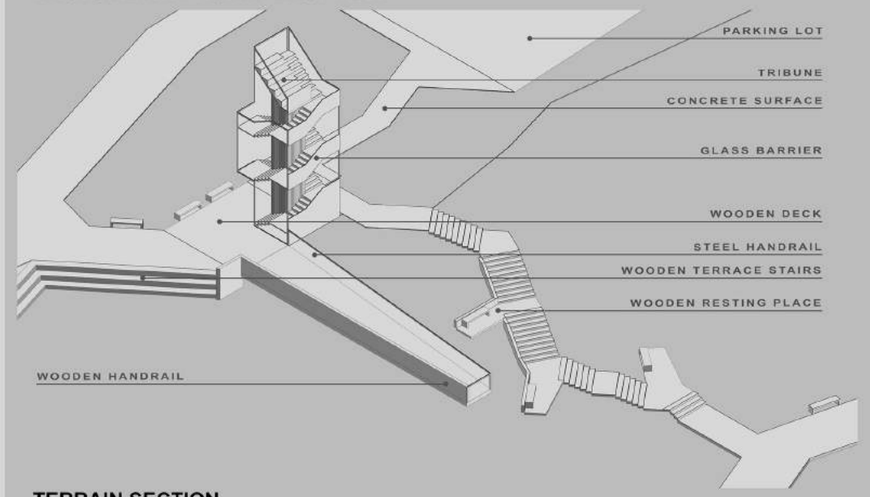
1 steel resting place, 15 mm, powder coated
2 staircase bracket, I-beam IPE 160
3 steel step 5 x 17 x 30, szer. 150 cm
4 steel handrail, diameter 40 mm,
5 glass barrier, tempered 3 layer glass
6 frame for fixing expanded metal sheets, closed profile 50 x 30 x 2,5 mm

DETAIL / OBSERVATION TOWER



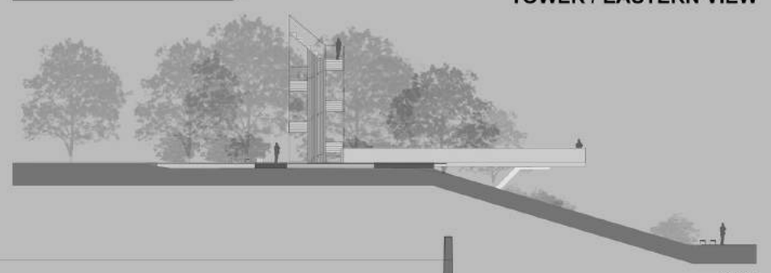


AXONOMETRY / NORTH EAST VIEW



TOWER / WESTERN VIEW

TOWER / EASTERN VIEW



TERRAIN SECTION

VISUALISATION / OBSERVATION DECK + TOWER