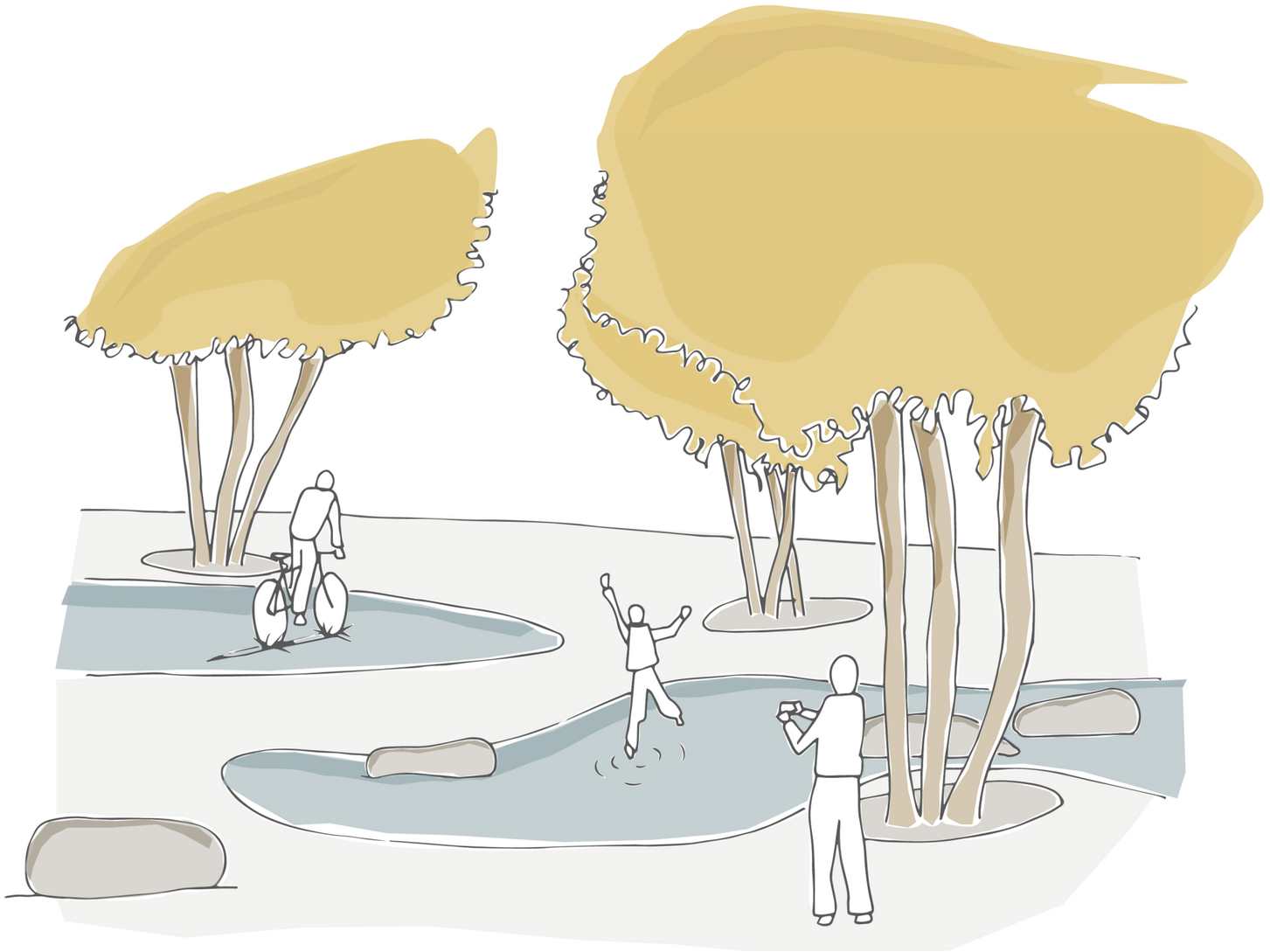
LAND UNTER

The Praterstraße puts rainwater on the screen



Country / City	AUSTRIA I Vienna
University / School	University of Natural Resources and Life Sciences, BOKU Vienna
Academic year	winter term 2019
Title of the project	LAND UNTER The Praterstraße puts rainwater on the screen
Authors	Nina Hainfellner

TECHNICAL DOSSIER

Title of the project	LAND UNTER The Praterstraße puts rainwater on the screen
Authors	Nina Hainfellner
Title of the course	Design and implementation planning (master study landscape architecture)
Academic year	winter term 2019
Teaching Staff	Lilli Lička, Robert Luger, Tutor: Fabian Ilse
Department/Section/Program of belonging	Department of Space, Landscape and Infrastructure Sciences (RALI), Institute of Landscape Architecture (ILA)
University/School	University of Natural Resources and Life Sciences, BOKU Vienna

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

The project LAND UNTER suggests a solution for the challenges imposed by climate change in future streets. This also involves a traffic-calmed reinterpretation of the street and its transformation into a true public space with recreational qualities. The design gives greater importance to rainwater in the Praterstraße, in the 2nd district of Vienna with a reference to the nearby Danube river. In addition to functional considerations, water becomes temporarily available, visible and thus perceptible. The project area is located in the former inundation area of the Danube floodplains. Both function and form of this former landscape were translated into the street design: The road is slightly curved slowing down traffic; so-called lines of movement, referring to river arms, run through pavements and squares as a connecting and structuring element; the planted mounds reference gravel banks, and the new trees pick up the natural vegetation and improve the microclimate. The implementation planning was focussing on the rainwater treatment. Plant beds along the road collect rainwater from pavement areas and the road by rigole infiltrations. They can hold excess water in case of heavy rainfalls in combination with a first-flush channel system. On the squares slight depressions collect rainwater, keep it visible for some time, and drain the entire area via their subtile rigoles.

For further information
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CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

Barcelona September 2020

SCHOOL PRIZE

2nd district of Vienna, Austria

Project surrounding

Project area Praterstraße

Former inundation area in 1529

Spaces along Praterstraße

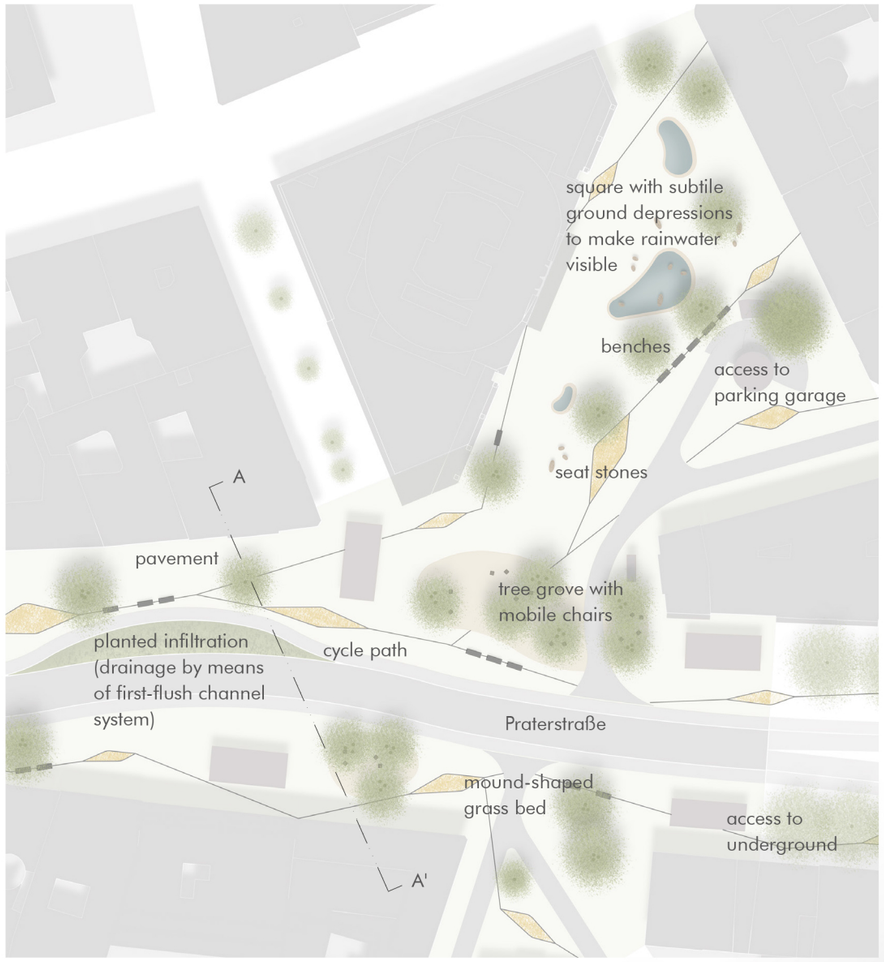
> TOPIC OF FLOODING / DANUBE-FLOODPLAINS / RIVER

> TRANSFORMATION FROM STREET TO PUBLIC SPACE

FUNCTION

SHAPE

SECTIONS of mound-shaped grass bed I tree grove I subtile depression filled with rainwater



DETAIL AREA NORTH-EAST

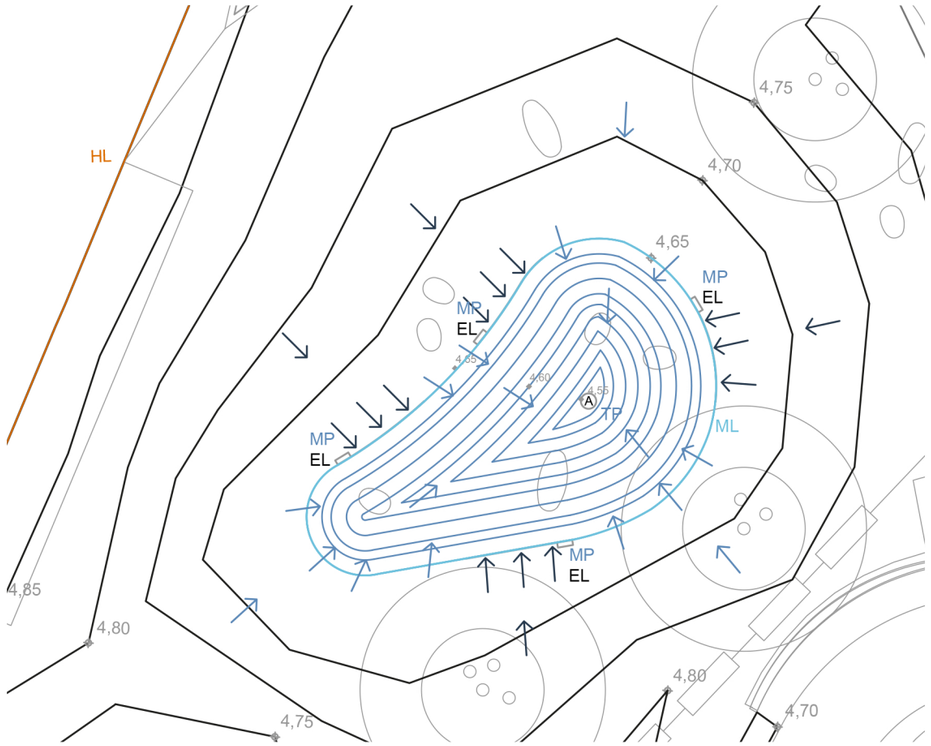
0 25 m N

PROJECT PLAN M 1:500 (schematic)

0 25 m N

STREET SECTION A-A' (without scale)

DETAIL AREA NORTH-EAST for implementation planning

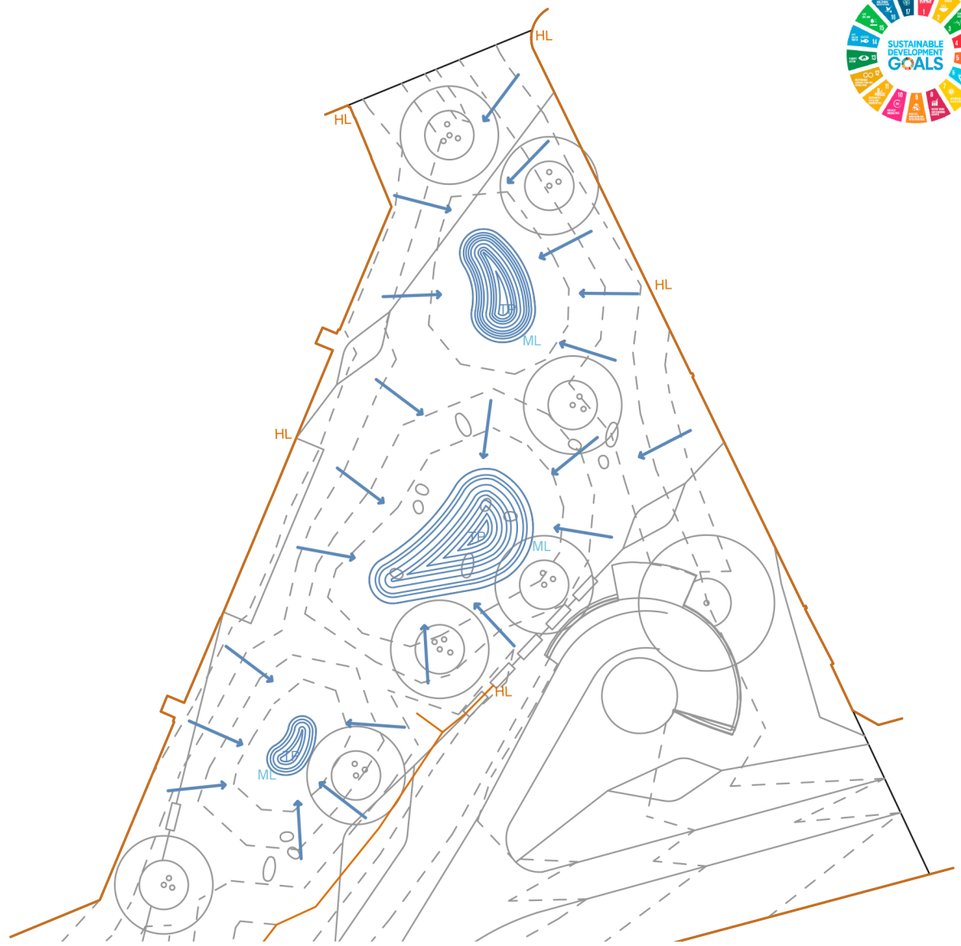


HL High line
ML Mid-low line

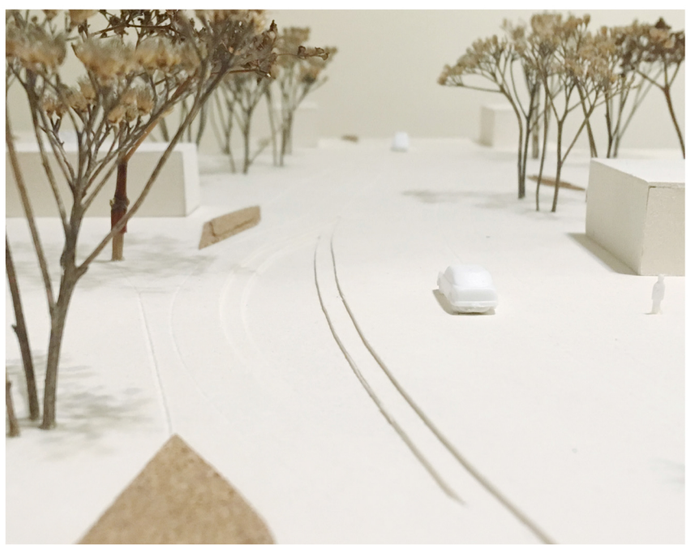
MP Mid-low point
TP Low point

EL Rigole
A Inlet shaft

DETAIL Principle rainwater collection M 1:200



DETAIL Principle drainage of square via subtile ground depressions M 1:500



PHOTOS OF SCALE MODELS
Detailed model of subtile ground depression M 1:50
Model of planning M 1:200