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CENTRAL EUROPE



CWC

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TAKING
COOPERATION
FORWARD



Peer review meeting, City of Bydgoszcz, 11 April 2022 r.



Rainwater utilisation via rooftop rainwater harvesting serving rain gardens in Bydgoszcz

Pilot investment - rain garden at at Museum of Waterworks, 424 Gdańska Street, Bydgoszcz



CWC City Water Circles, Mariusz Zarzycki

LOCATION



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CONSULTATION



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FORMER SOLUTION



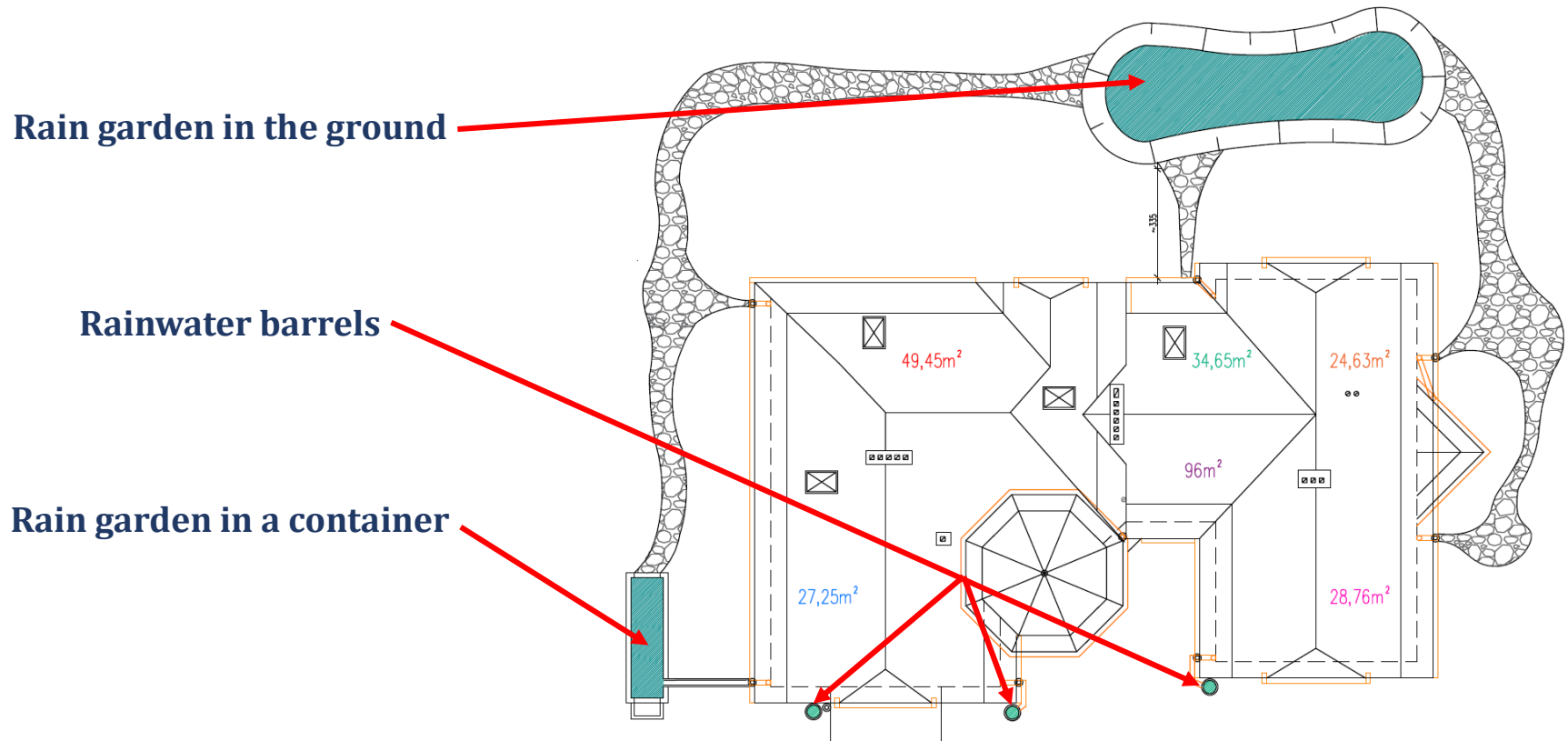
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**roof area - 265 m² ,
assumed precipitation - 35,5 mm
rainwater yield - 9,4 m³**

**well absorbent ground - fine sand
groundwater level - 10m BGL**



CONCEPT



BARRELS



3 barrels
Total capacity of 1m³



RAIN GARDEN IN THE CONTAINER



Sealed container with capacity of 1m³



RAIN GARDEN IN THE CONTAINER



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RAIN GARDEN IN THE GROUND



**a two-zone rain garden in the ground
with a total area of 20.5 m² and a capacity of 6.2 m³**



RAIN GARDEN IN THE GROUND



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**30 species of plants
incl. knotweed, iris, cattail, comfrey**



PLANTS



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PLANTS



SCHOOL TOURS



THEMATIC CLASSES



THEMATIC CLASSES



BENEFITS



- relieving the rainwater drainage system during heavy rains
- interesting and aesthetic space arrangement
- educational and demonstration function



- groundwater restoration
- rainwater treatment
- reducing urban heat islands
- improvement of biodiversity



- lower cost of watering lawns
- lower fees for rainwater





- no uniform guidelines for calculating the amount of rain and the required capacity of rain gardens



- lack of experience of designers and contractors in the implementation of rain gardens
- only 1 contractor applied for inquiry

