



Ecological continuity

- Malpais forest: Quercus ilex, Quercus petraea
- Malpais forest: Extension of Malpais's breeding space
- Shrubby mounds and forest fringes: Quercus ilex, Quercus petraea, Sambucus nigra, Crataegus monogyna, Cornus sanguinea, Prunus spinosa
- Open meadows with scattered trees: Alnus glutinosa, Salix repens, Lonicera xylosteum, Ranunculus acris, Trifolium repens, Achillea millefolium
- Urban North-South promenade: Quercus ilex, Tamarix borealis, Pinus nigra
- Grilled canopy: Pinus coronata, Etila cordata, Anacardium occidentale
- Lakes, mounds and infiltration basins: Carex praecox, Iris pseudacorus, Annona officinalis

Water management

- Non-permeable surfaces
- Non-permeable paths
- Permeable surfaces
- Lakes and mounds
- Infiltration channels and basins

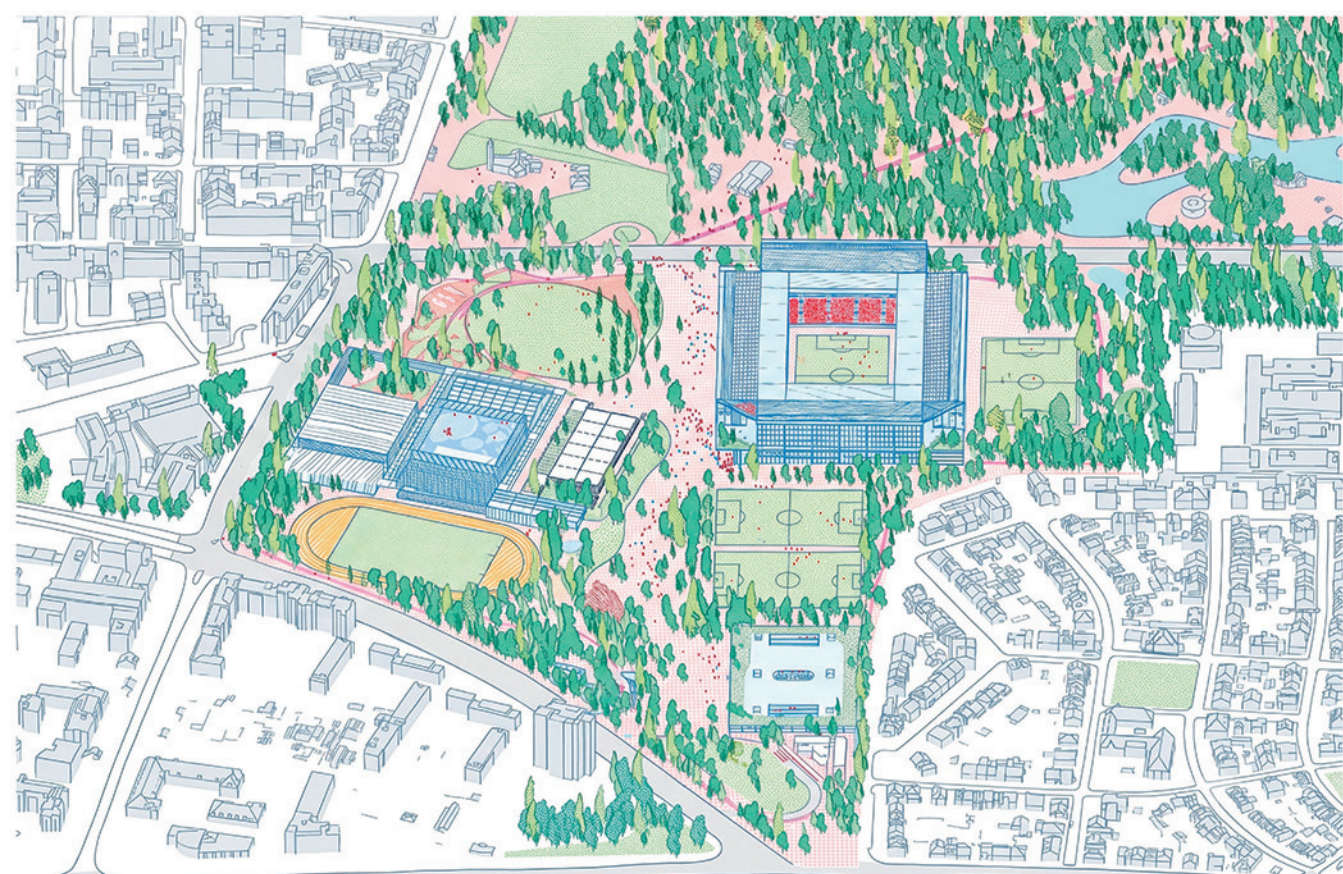
Outdoor program

- Urban promenade
- Play areas and open spaces
- Sports park, athletics, basketball and football fields
- Use within the stadium: Park, sitting areas, playgrounds and polyvalent spaces
- Tramway station
- Lakes, mounds and infiltration basins

Mobility threads

- Pedestrian promenade
- Pedestrian axis around Malpais meadows
- Pedestrian path network within the Park
- Pedestrian-like Loop and Malpais's control path
- Car circulation around the site
- Outdoor parking
- Indoor parking
- Tramway
- Malpais's train station





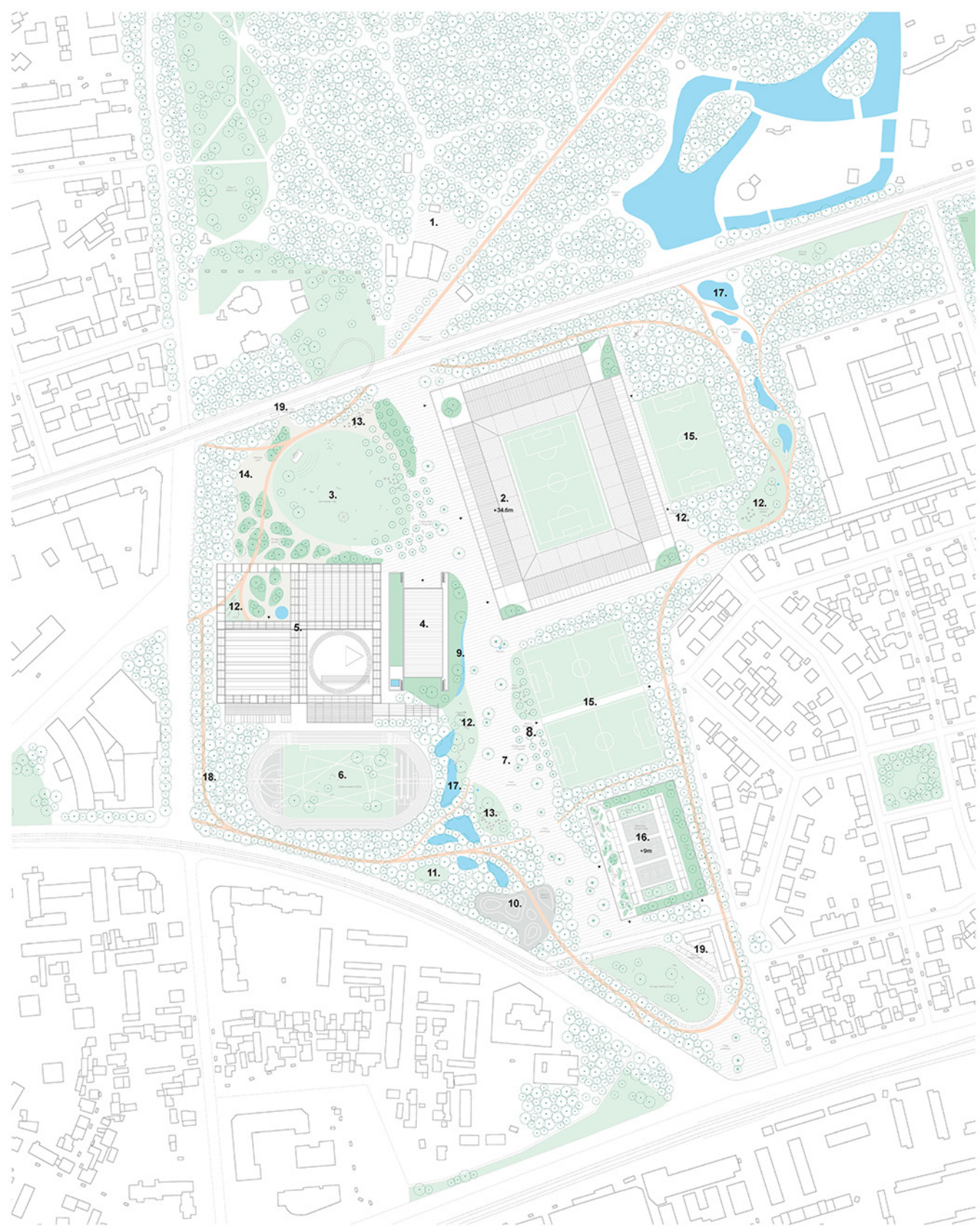
The Stadium within Maksimir Park

The proposal extends the Maksimir Park to the South, integrating the new Sports Facilities through a weaving of open and forested spaces. A vast open space articulates the entrance from Maksimirska Street.

A Sports Temple of the 21st century

The new Stadium introduces a strong urban character and elegant presence thanks to the monumental stands gently posed in and active podium.

The new Maksimir Stadium is a social platform that integrates the entrances for the visitors and diverse services for the inhabitants in its urban perimeter.

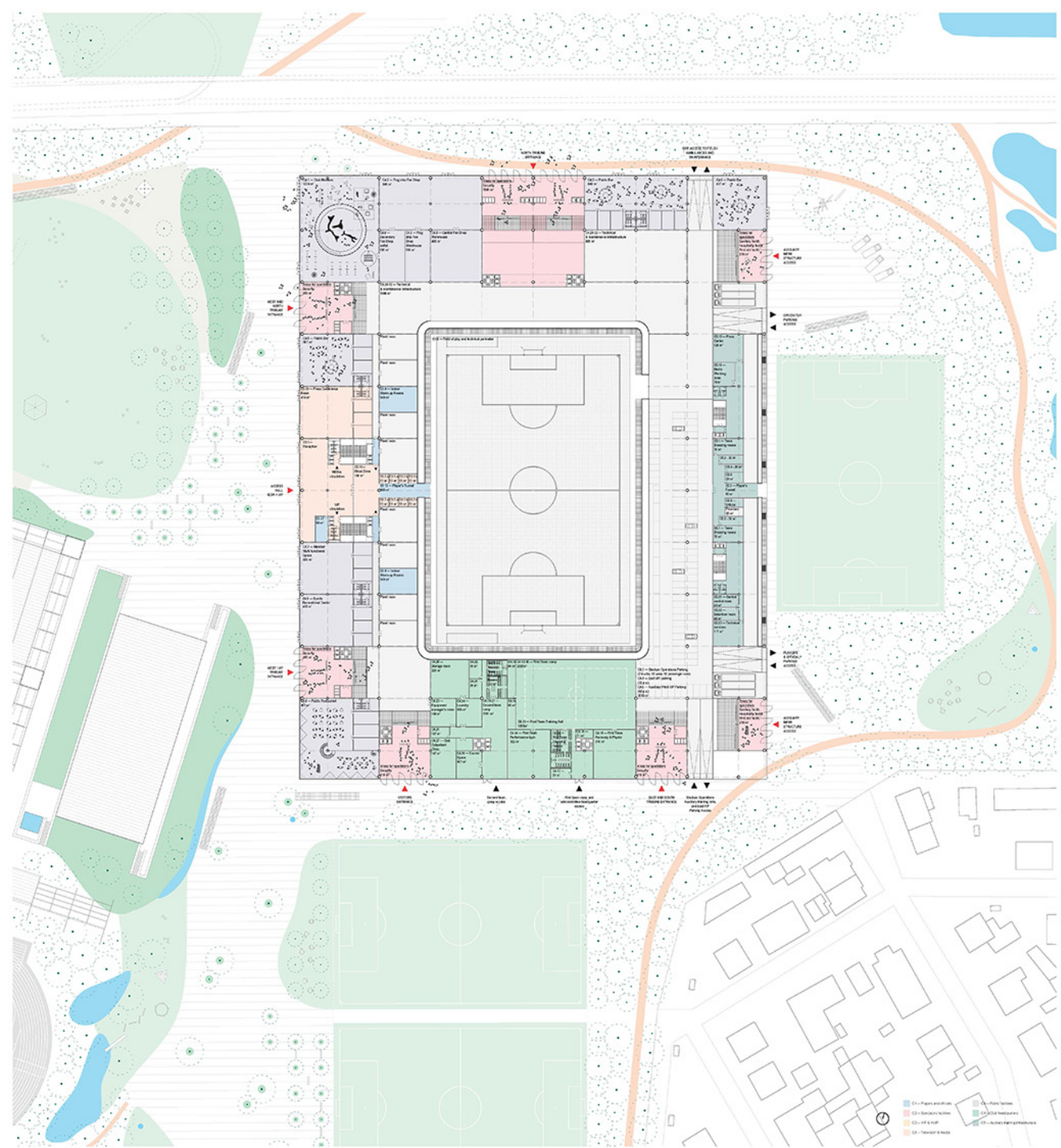


A legible urban and environmental layout

The Maksimir Park surrounds the new stadium facilities reinforcing the green infrastructure of the City of Zagreb. It organizes the site through a weaving of big buildings and vast open areas, leaving a clear and generous circulation from South to North. In between them, a series of places of encounter for inhabitants of all ages. Visitors will profit from the generous scale of the Park while always finding 'urban refuges' for the collective joy!

SITE PLAN OF THE LANDSCAPE AND ARCHITECTURAL PROPOSAL
scale 1:1000

- 1. Maksimir Park
- 2. Maksimir Stadium
- 3. Maksimir meadow
- 4. Svetice Swimming Pool
- 5. Svetice SRC Multipurpose facilities
- 6. Svetice Athletics
- 7. Urban promenade
- 8. Gridded canopy + benches
- 9. Fountain
- 10. Skatepark
- 11. Calisthenics
- 12. Playground meadows
- 13. Entrance kiosks
- 14. Petanque courts
- 15. Football training fields
- 16. Carpark public roof + Basketball courts
- 17. Infiltration basin
- 18. Loop + Forest fringes
- 19. Tramway stations

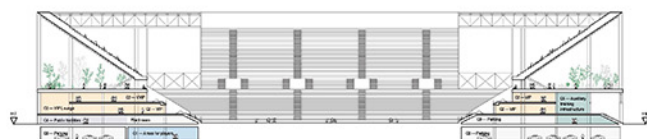


SITE PLAN OF THE FOOTBALL COMPLEX ZONE - STADIUM GROUND FLOOR PLAN / scale 1:500

The Stadium as a gentle machine

The proposal clearly defines different public intensities according to each orientation. While the East side is reserved for professional training field and facilities, the West introduces a series of public programs (Museum, Bar, Restaurant), in front of the new parvis for accessing the Stadium.

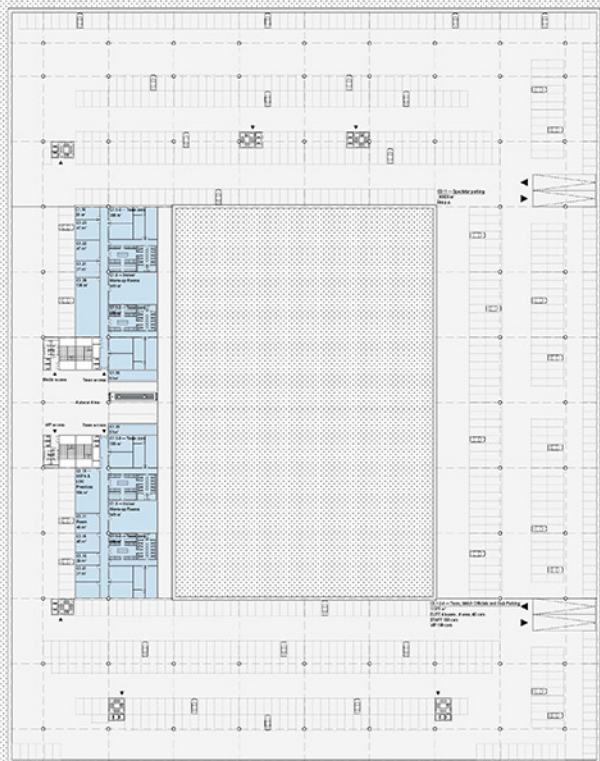
The proposal looks for a pragmatic organization of visitors' flows. Main access by spectators is from the corners of the stadium's platform. Exclusive accesses for the local and visitors players from the north (accessing directly from an exclusive underground Parking).



CROSS SECTION / scale 1:500



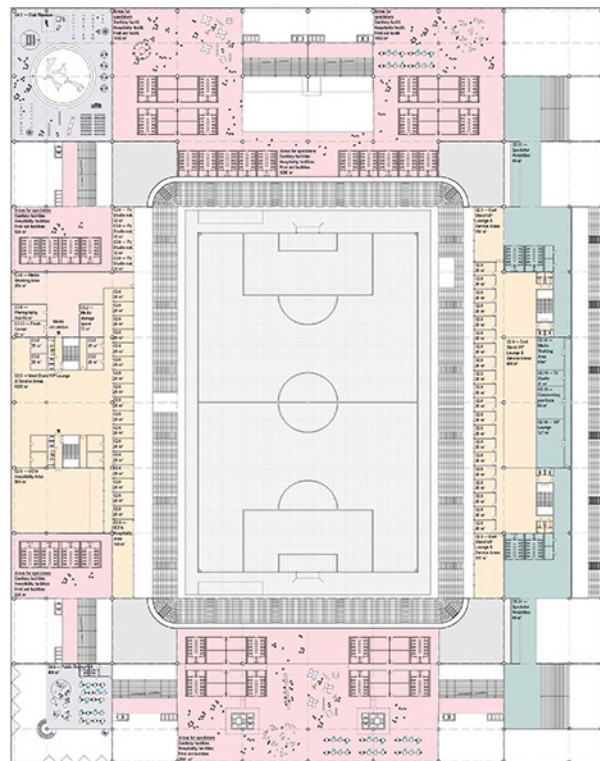
LONGITUDINAL SECTION / scale 1:500



Level -1

scale 1:500

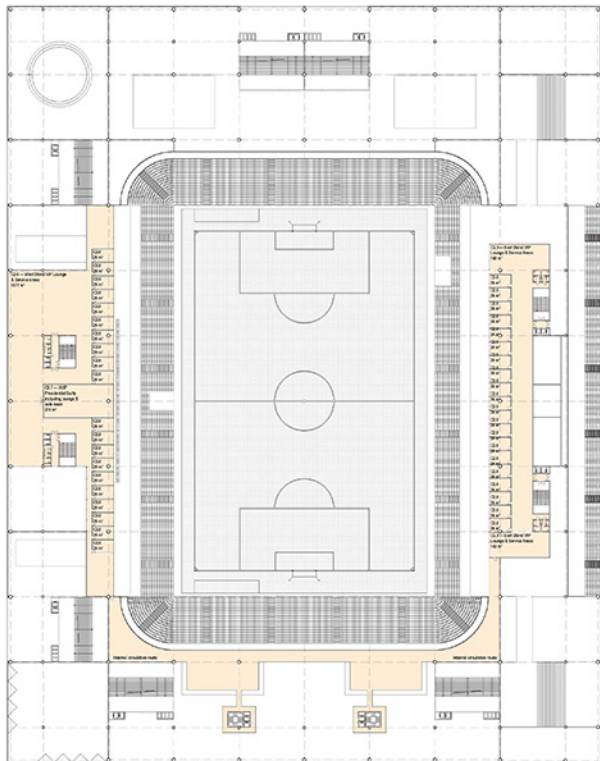
The Underground level integrates the parking with two accesses from the East (North for general public and South for VIP and players). It concentrates all the needed facilities for the professional players.



Level +1

scale 1:500

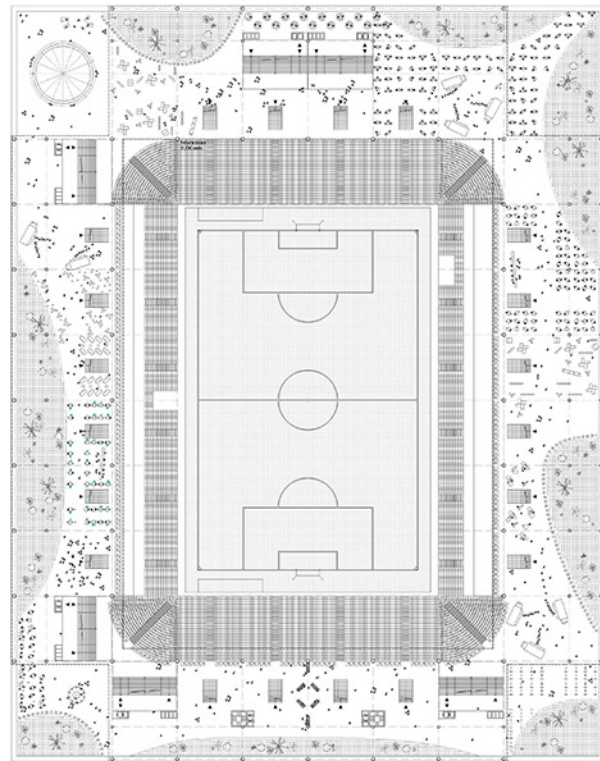
This level is served by generous circulations in the four corners of the base. It includes the VIP exclusive areas in both East and West Stands and the Team Facilities are located under the South Stand.



Level +2

scale 1:500

This level includes VIP facilities in East and West (with beautiful views to the surroundings, including the new square and garden in the West) and it concentrates all the areas for spectators (Sanitary, Hospitality and First aid facilities).

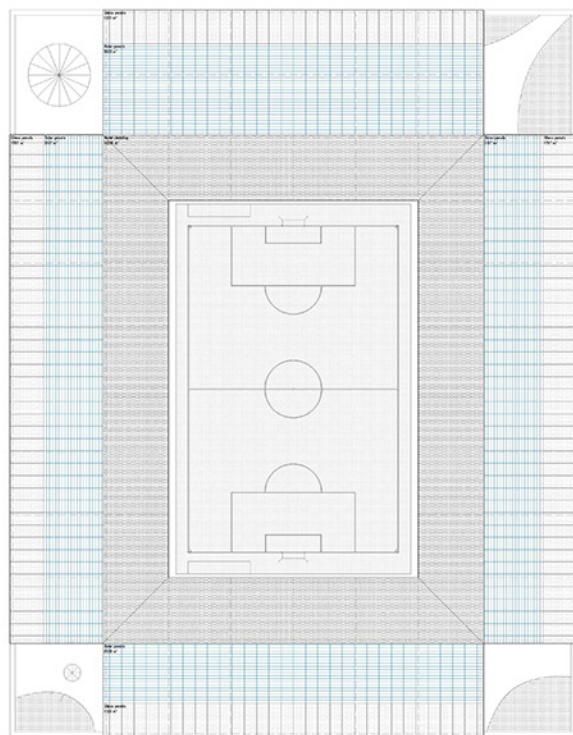
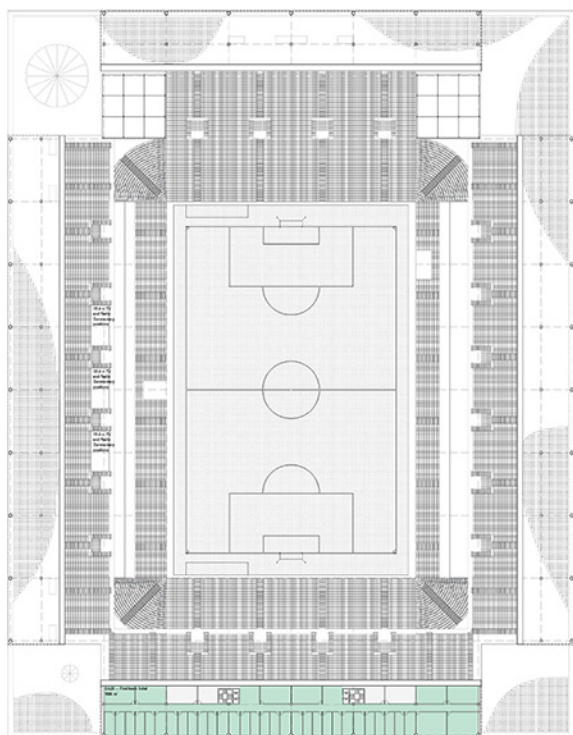


Level +3

scale 1:500

An ambulatory platform organizes the flows inside and outside the stands. By just enlarging the functional circulation belt, new terraces and gardens with direct views to Maksimir Park appear. Maksimir Stadium proposes a new deal with its city!





Level +4

scale 1:500

The upper levels reveal the full stadium bowl, with a capacity for 35,000+ seated spectators, has been designed taking into account UEFA IV category international standards regarding the size of the pitch, its adjacent spaces and optimal visibility from all positions.

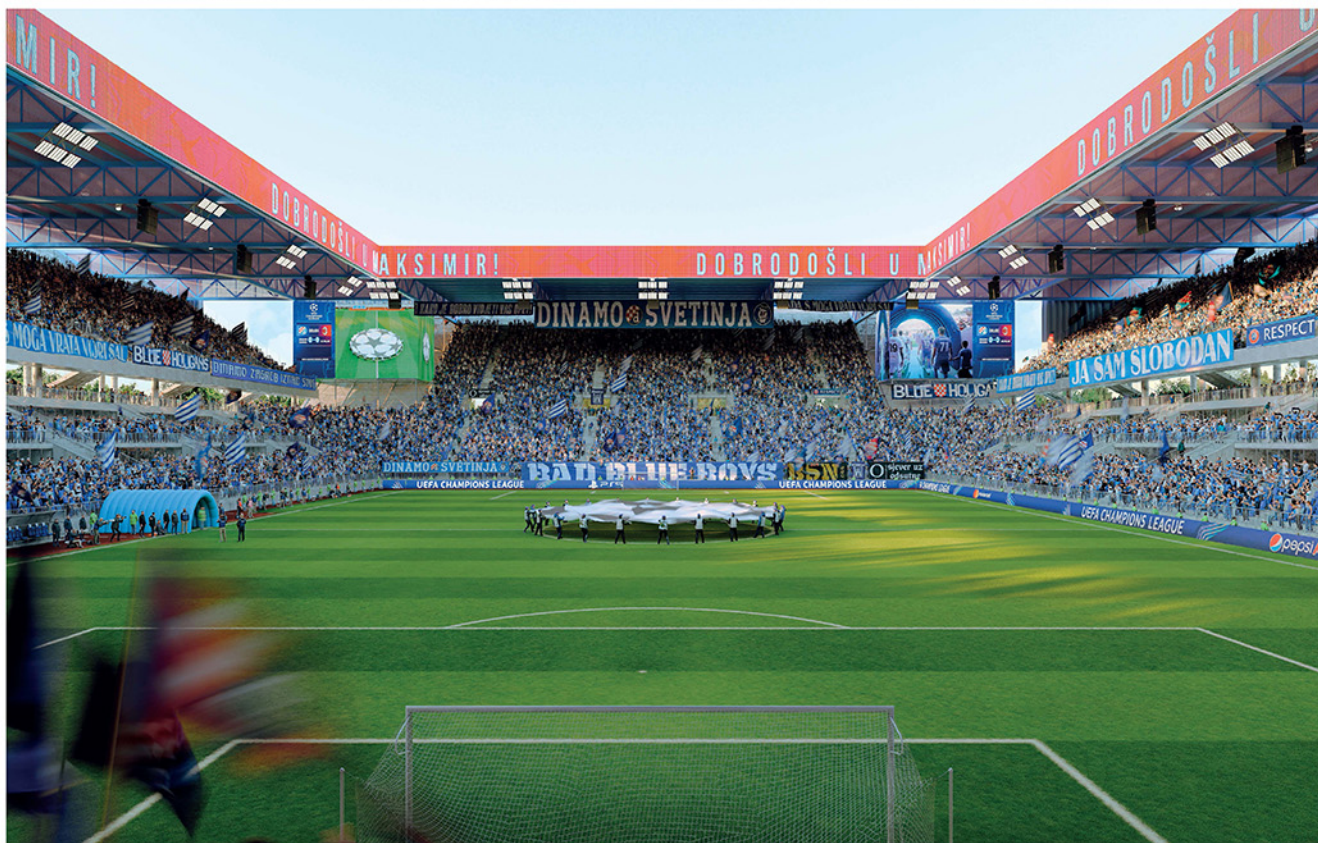
- ST - Upper stands
- ST - Lower stands
- ST - Upper stands
- ST - Lower stands
- ST - Upper stands
- ST - Lower stands
- ST - Upper stands
- ST - Lower stands

Stadium Roof Level

scale 1:500

The roof is defined by a structural system of exposed and coloured trusted beams. It is conceived as a technical grid that incorporates 12,314 m² of solar panels, lamps and speakers, a curtain when there is need to enclose the scene and a continuous LED ring towards the field.

- ST - Upper stands
- ST - Lower stands
- ST - Upper stands
- ST - Lower stands
- ST - Upper stands
- ST - Lower stands
- ST - Upper stands
- ST - Lower stands



A unique Sports Temple

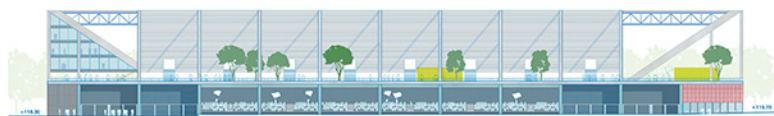
A clear frame for the soccer field defined by a system of similar stands in the four sides with a continuous technical roof. A base integrating the field, an intermediate ambulatory level with views to Maksimir Park and a series of electronic devices to boost the fans experience within the Stadium



WEST FACADE / scale 1:500



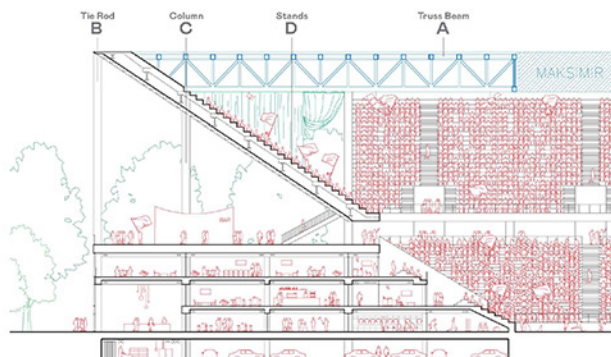
SOUTH FACADE / scale 1:500



EAST FACADE / scale 1:500



NORTH FACADE / scale 1:500



STRUCTURE SECTION / scale 1:200

(A) The stadium roof is supported by a cantilevered steel truss beam extending above the stands. Primarily working in bending to withstand all the loads applied to the roof structure, this system optimizes the use of materials by breaking down the global bending forces into simple axial forces (tension and compression) along its various components.

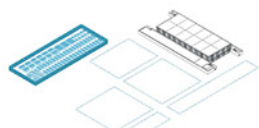
(B) The tie rod is a large cross-section tensile structural element. Working purely in tension, its role is to ensure the overall stability of the structure and limit deflections at the end of the stands under the effect of the cantilevered truss beam.

(C) The column is the main vertical supporting element that receives and transfers all the loads from the roof and the stands to the deep foundations. It primarily works under axial compression due to the combined action of the truss beam and the stands. Ultimate Limit State (ULS) calculations define a maximum support reaction of 19,842 kN at its base.

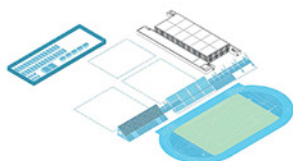
(D) The stands are inclined reinforced concrete structures made of C40/50 concrete, with a thickness of 500 mm, designed to support the seating areas. They carry the significant permanent loads of the stand structure (7.5 kN/m², i.e. approximately 150 kN/m) as well as the live loads associated with public occupancy (7 kN/m², i.e. approximately 140 kN/m). These forces result in significant bending moments and shear forces, which are transferred by the stands to the columns.

A Social Platform

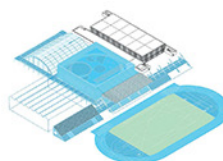
View from the ambulatory level outside the stands introducing gardens and terraces at 12m height extending the life of Maksimir Park into the new sports infrastructure.



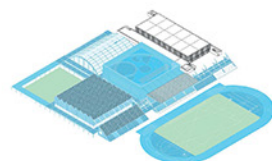
Phase 1
The components from the existing stadium are cleaned and stored on site. The swimming pool waits for its neighbouring buildings on the east.



Phase 2
Building of the new facilities starts. The Athletic training field and facilities—made by reusing V concrete columns of the original stadium—frame the open space in the south.

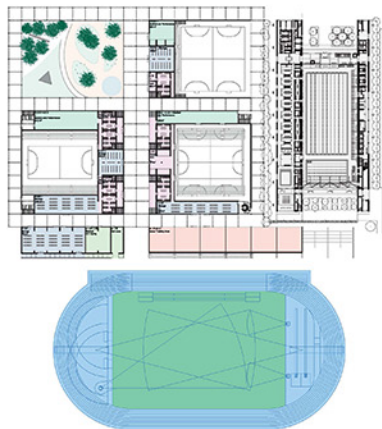


Phase 3
Building of the new facilities continues. A new garden and a system of pergolas appears in the north-west corner of the complex.

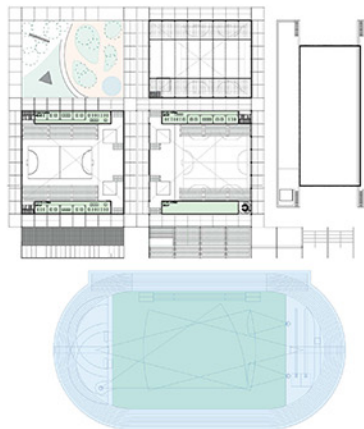


Phase 4
The last building—Handball Main Field—with its solar roofscape is built. The system of buildings by different architecture practices is completed. A diverse yet potentially coherent whole.

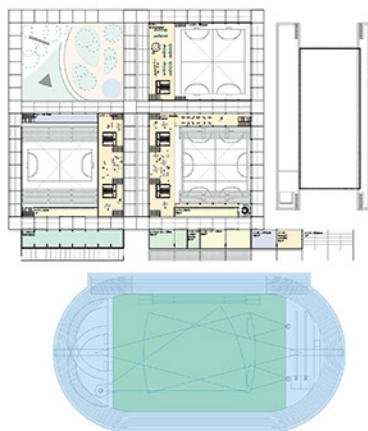
GROUND FLOOR PLAN / scale 1:1000



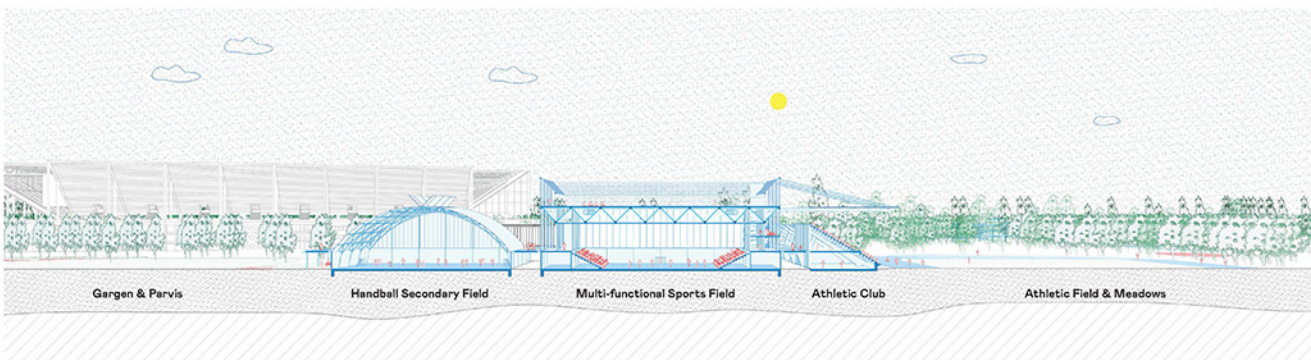
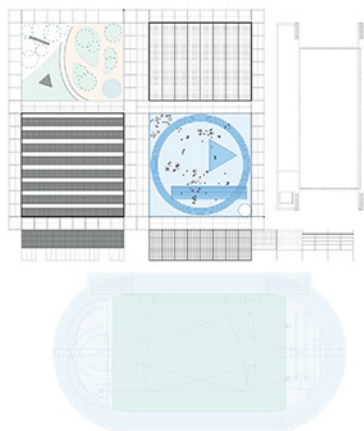
THIRD LEVEL PLAN / scale 1:1000



THIRD LEVEL PLAN / scale 1:1000



ROOF LEVEL PLAN / scale 1:1000



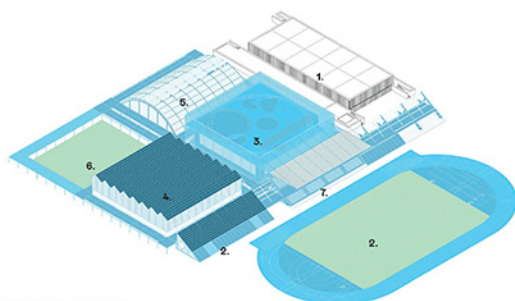
The Svetice SRC Sports Facilities Complex

A coherent whole made by different volumes integrating site and landscape. Our proposal aims to provide a flexible framework for new facilities to be built in the future—a system of buildings designed to adapt to functional, material, and economic changes.

Our proposal aims to provide a flexible framework for new facilities to be built in the future: a system of buildings -designed by colleagues- to adapt to functional, material, and economic changes.

The principle is based on creating a compact "neighborhood" on the East of the swimming pool leaving open green spaces around it, on the scale of the sports complex, Stadium and Maksimir Park. A functional circulation system -with clear open pathways North-South and East- defines the new sports complex.

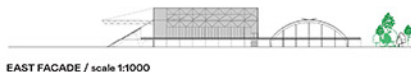
Although we understand the desire to build a new stadium (one that meets the most rigorous UEFA standards), we believe this ambitious competition could be a laboratory of reuse of what already exists: from aggregates from the existing needed demolition to dismantling, storage and reuse as much as possible, on a second phase. The size of the site allows for the temporary storage of these elements, that can be potentially reused on the new facilities or elsewhere.



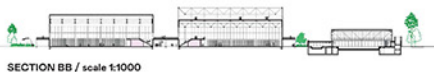
1. Existing Swimming Pool
2. Athletic Field & Facilities
3. Multi-functional field
4. Handball Main Field
5. Handball Secondary Field
6. New entrance Garden
7. Main Stand of the Athletic field



SECTION AA / scale 1:1000



EAST FACADE / scale 1:1000



SECTION BB / scale 1:1000



NORTH FACADE / scale 1:1000



SECTION CC / scale 1:1000



WEST FACADE / scale 1:1000



SECTION DD / scale 1:1000



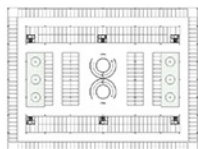
SOUTH FACADE / scale 1:1000



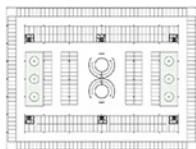
System of Pavilions

A diverse set of structures provides a recognizable identity to each new sports facilities on the second phase. A system of gardened pergolas bring unity to the system while providing generous accesses and circulations for the visitors.

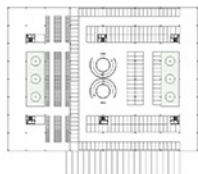
-2 LEVEL PLAN / scale 1:1000



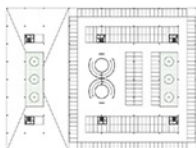
-1 LEVEL PLAN / scale 1:1000



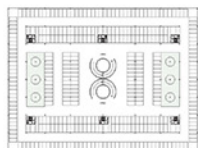
GROUND FLOOR LEVEL PLAN / scale 1:1000



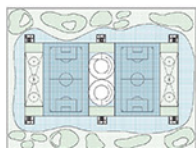
MEZZANINE LEVEL PLAN / scale 1:1000



+1 LEVEL PLAN / scale 1:1000



ROOF LEVEL PLAN / scale 1:1000



LONGITUDINAL SECTION / scale 1:1000



CROSS SECTION / scale 1:1000



WEST & EAST FACADE / scale 1:1000



NORTH & SOUTH FACADE / scale 1:1000

The parking is orientated NS, along the main boulevard, in front of the athletic field. Its access is well served from Ul. kneza Branimira and Ul. Mije Krešića. As all the new facilities in the proposal, it avoids being a mono-functional structure but to take advantage of its size to provide qualitative collective space in different floors.

Partially buried, the Parking has three levels above the ground. This allows to reduce the environmental impact and economic cost of an underground parking while providing a flexible structure that introduces unexpected qualities: a covered hall and bike station in front of the pedestrian boulevard and open rooftop to be used by different events along the year.



A reversible parking in the south

The parking opens to the west, offering a covered square in its base and an open air sports field on the rooftop.