

ARCHIPELAGO IN THE CITY

Archipelago is a connector of the two major regions of Thessaloniki - South and North. Located in the center of the city, this new urban amenity transforms the site into a crucial node for connecting the elements around: universities, cultural spaces, historical buildings, the mountains and the sea.

Thessaloniki is characterized by a vibrant urban network of diverse spaces for interaction and leisure. Archipelago proposes to continue this rich quality within TIF Site. A network of islands are connected together with a single continuous canopy. This element of the park binds the whole site together into a continuous public space blurring

elements of retail, commercial, leisure, culture and fitness into a single innovative urban typology.

The design is formed with a diverse range of spaces and qualities both interior and exterior. A collection of "living rooms" for the city each with different use and functions. The spaces are designed to operate continuously all year around - quickly adapting to the change in weather and the change in usage. The existing urban routes and axes flow through site perpetuating a new type continuity.











A CLUSTER OF LIVING ROOMS

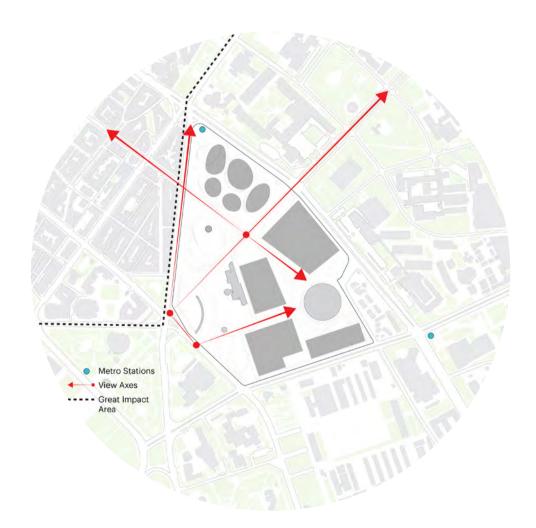
Thessaloniki Confex park will stitch the fabric of this rooted trading metropolis back together, reconnecting lost pedestrian routes between city and sea and providing a dynamic series of spaces to enrich the community it sits within. The park's sinuous forms draw people from existing routes and encourage exploration around a new archipelago of landscape rooms, each with its own character and focus.

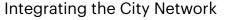
The largest of these rooms is centred around the YMCA archway and will be home to a multi-functional mirror water feature that transforms into an events plaza or ice-rink, depending on the season. Adjacent

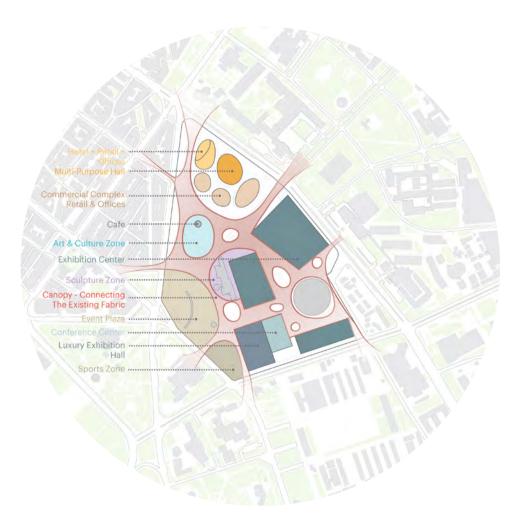
terraced lawns offer families a place to unwind and relax whilst offering elevated views of the activities beyond. Thessaloniki is a dynamic city, and with its many universities, a well-known centre for learning and development, the arts and cultural island will enhance this by providing opportunities for local creatives to display or perform their craft. Intimate stages nestled within the landscape will host painters and musicians, whilst informative and interactive displays will provide an understanding of the park's ecological and environmental credentials. Situated in the South-Eastern corner of the park, a sports island will host a multi-purpose court and skate park, encouraging exercise and giving the local youth a space to come together.

While engaging the outdoor exhibition areas, the fluid open space provides large flexible stages for ever-evolving public events, offerings and activities best suited for a dynamic community. In addition, the landscape upgrades the surrounding streetscape with a tree-lined promenade and a bicycle lane allowing a dedicated corridor for walkers, joggers and cyclists along the site boundaries.









A Cluster of Amenities

MAXIMUM FLEXIBILITY

The Exhibition Center is designed as the most functional and flexible work of architecture. It will provide a timeless state-of-the art showroom. Expressed through a minimal envelope the buildings use a sophisticated and innovative structural system to achieve large spans without any columns. This effort is used to establish a generous uninterrupted space for exhibitions sandwiched by two volumes of leisure, support and circulation spaces. The exhibitions are always connected to the outside using massive sliding doors that allow the interior exhibition to be seamlessly integrated with the outdoor programs. This system opens up more possibilities for exhibitions and event types by extending. This achieves a all-year round exhibition calendar making

use of the always beautiful weather in the region. The program is divided between three buildings to minimize envelope and maximize interior efficiency. The three buildings are connected together by above ground bridges. Some of these land on the neighboring roofs due to elevations change - creating the opportunity for breakout spaces to exist above the city - opening beautiful vistas of the sea and the mountains. This network of buildings can operate as a single unit providing a wide range of exhibition spaces and relationships. At ground level the three are united by a covered plaza space adding more exhibition potential while protecting larger scale event under a single canopy.





AN URBAN VILLAGE

The Business Center is a manifestation of the diverse and dense nature of Thessaloniki's urban fabric. The buildings are designed as a collection of islands acting like an urban village. The landscape is a series of terraces which blur the scale between Egnatia street and the newly designed park. The architecture is porous and open to allow flexible entries and multiple path possibilities. All ground level retail are connected together with outdoor space creating a sense of a village in a park. The hotel is located facing Sintrivaniou Square, establishing an iconic landmark at the corner. It project's out as the tallest island - this corner piece attracts the public to the vast and diverse public space located within the site.

At the core of Archipelago is a carefully calibrated network that creates a flow of energy and resources allowing the building systems to operate in high standards of sustainability. A combination of passive and active systems allow the landscape and architecture to co-exist and positively respond at three scales: global, local and





SUSTAINABLE STRATEGY

Our approach for a SUSTAINABLE CONFEX PARK relies on the crossing of three strong responsabilities carried by the project, refering to three scales of thinking.

GLOBAL SCALE RESPONSE: LOW ENVIRONMENTAL IMPACT

As a project of the XXIst century, Thessaloniki ConfEx Park must answer to the now well-known environmental issues of our living world. Our project aims to reduce its environmental impact, in a net zero target: zero energy, zero carbon, zero water. Reducing buildings' energy consumption thanks to passive and bioclimatic strategies; developing of a smart and shared energy network powered by renewable energy; using low carbon materials and offering a reused

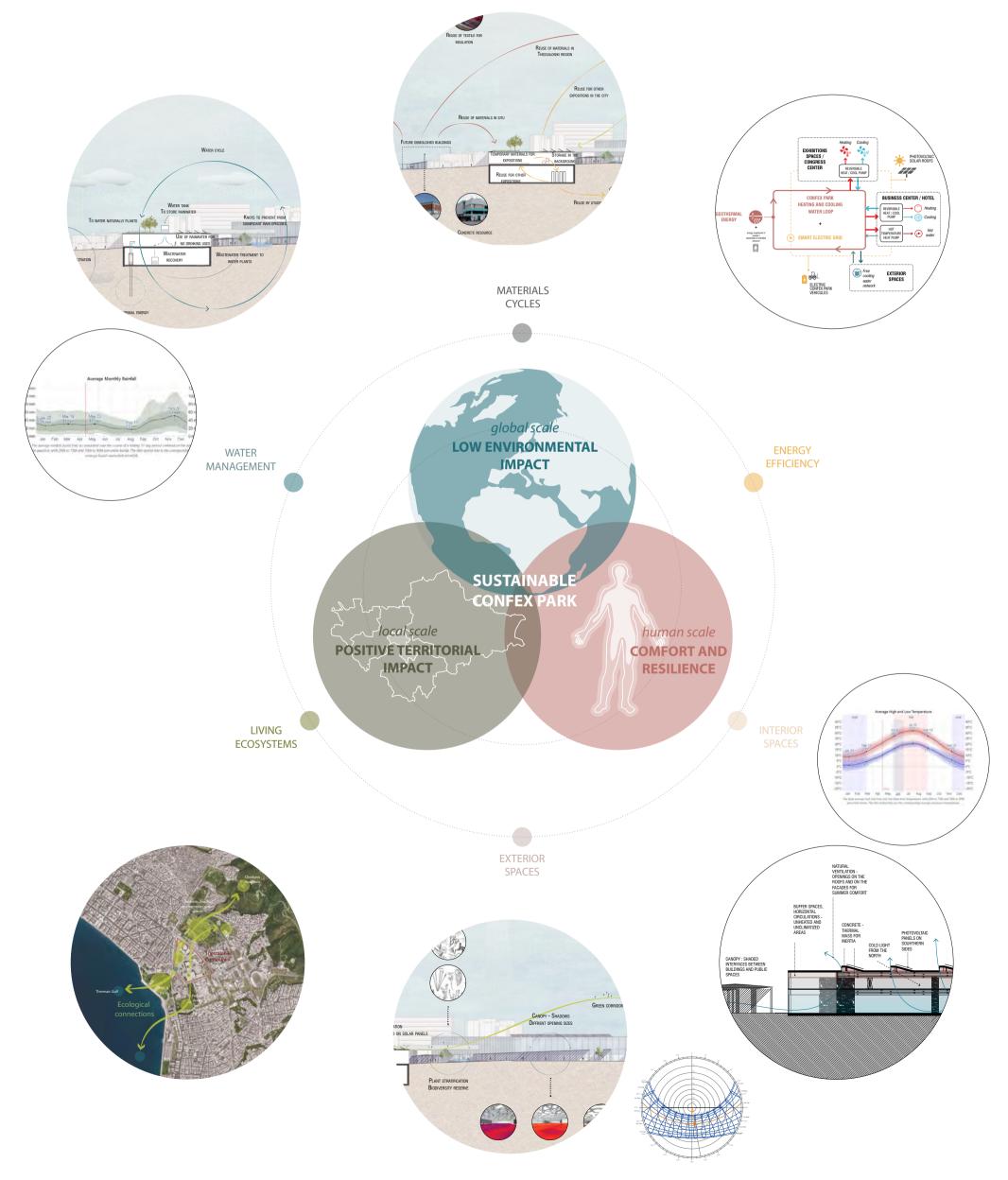
material plateform; developing a zero water cycle from rainwater to greywater to plant water; are some of the strategies of our project.

LOCAL SCALE RESPONSE: POSITIVE TERRITORIAL IMPACT

The ConfEx Park project is a unique opportunity to rethink the role of this urban piece into the city of Thessaloniki, and its surrounding region. Our intuition is that the project has strong assets to generate positive impacts on its territory. In our vision, ConfEx Park can become a microclimatic shelter in summer, where one could find freshness in the city; it stands has a relay in the ecological corridor from Mount Chortiartis to Aegean Sea; it may reload underground water resource and enhance local materials and technics.

HUMAN SCALE RESPONSE: COMFORTABLE AND RESILIENT BUILDINGS

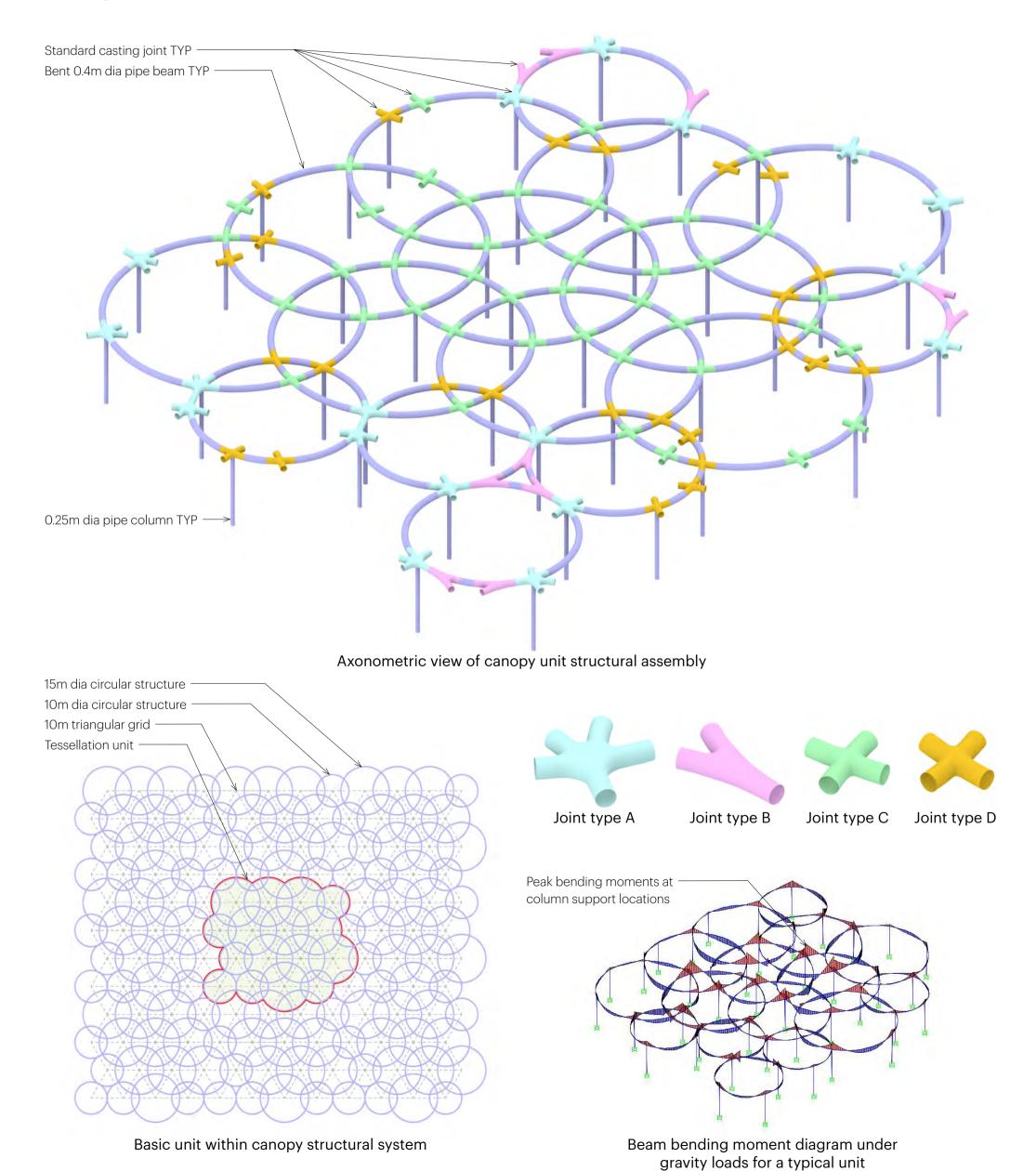
Last but not least, Thessaloniki ConfEx Park must aswer to the human scale, that is to say offering comfortable and resilient buildings, that can be properly used today but also tomorrow, for a diversity of users and uses. In this perspective, our projects relies on a precise analysis of Thessalonik climate from today to 2050, to offer adaptable buildings, facades and systems.



The structural system for the canopy is developed through the tiling of a typical canopy unit. The tiling pattern has a random, homogenized appearance when assembled, but is actually made up of a minimum number of standard elements including columns, curved pipe beams bent at two standard diameters, and castings at beam intersections.

A series of bent 40cm diameter steel pipe beams span between four typical joint intersections which are assumed to be cast steel. The canopy is supported on 0.25m diameter pipe columns spaced approximately 10m apart and the full canopy assembly acts together as a rigid frame to resist lateral loads.

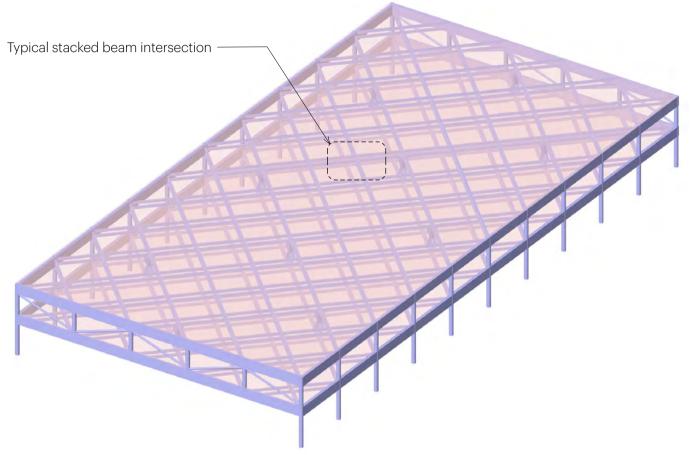
The moment-connected bent beams work effectively together to carry gravity loads as indicated in the bending moment diagram below. Laterally, the beams and columns are moment connected to behave as moment frames, transferring lateral loads imposed on the structure to the foundation.



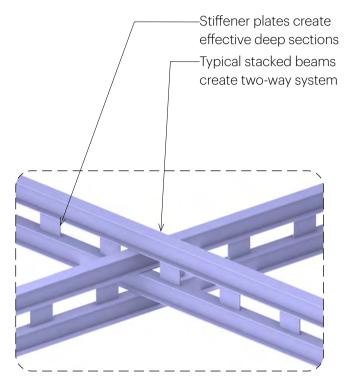
Each of the exhibition buildings features a dramatic, longspan structure to create a flexible, open floor plan that can accommodate different future uses. To minimize the structural depth, a system of stacked, interwoven wide flange beams, tied together with stiffener plates, effectively create a two-way span floor system with limited structural steel.

A limited number of columns span between the ground and the roof or the ground and the second level. For sectors 1.1 and 1.2 where a clear span is desirable at the ground level, a series of fabricated, tapered columns turn the full structure into a Vierendeel truss that allows for a clear span below. The columns are tapered to increase the section size at the top and bottom where the structural need is greatest. Each of the exhibition buildings has a series of concrete cores at the perimeter of the long-span structure to complete the building lateral system.

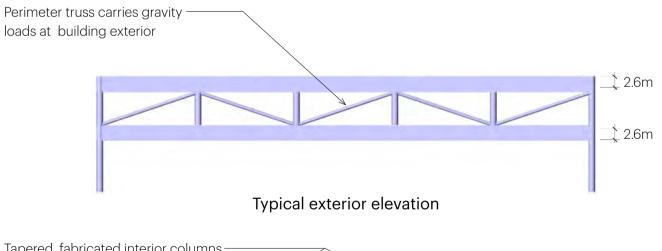
The interlaced stacked beams work as a two-way system to carry the gravity loads. As indicated in the bending moment diagram below, bending moments are symmetrically distributed under gravity loads reflecting the effective two-way behavior. Peak moments happen at interior column support locations.

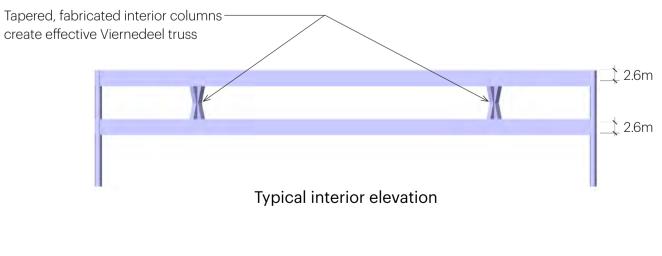


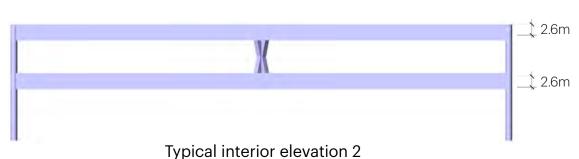
Typical long-span structural system for exhibition buildings

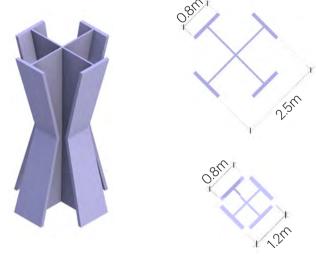


Typical stacked beam assembly for long-span two-way floor system

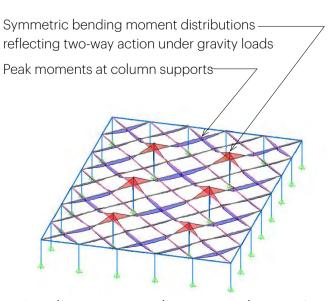








Typical Vierendeel Vierendeel truss truss column 3D view column plan sections

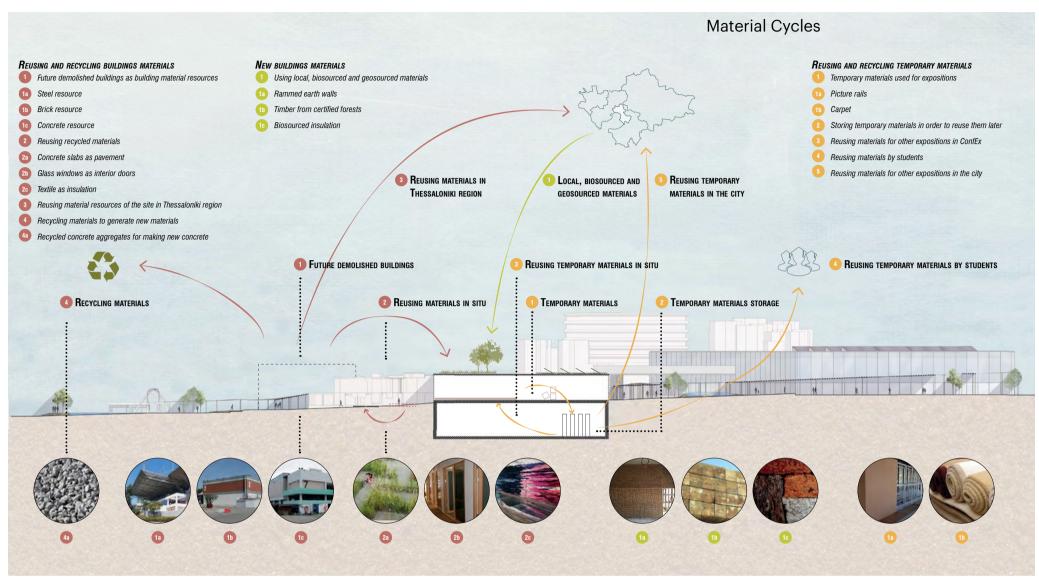


Bending moment diagram under gravity loads for long-span stacked beams

MATERIALITY AND ECONOMY

The project was designed with a high sense of economy and sensibility to resourcefulness and sustainability. The intention is to create an architectural node that can make use of timeless materials with a long life span. This creates a highly flexible and human environment. Today more than ever it is crucial to design structures with a long life span in mind and Archipelago achieves that by making use of local and existing resources as much as possible. Additionally the new structures developed on site are created using materials and assemblies that can continue to exist and be useful beyond the buildings long lifespan.

The budget provided in the brief was used as a guide to dictate the economy of materials and spaces. The architecture and the landscape was designed with the budget in mind and the resources were guided to provide a high level of amenities for the general public and at the same time a state-of-the-art exhibition space with high building performance in terms of energy resources and flexibility of use.



| | | | Area | | | |
|------------|-------------------|--------------------------|---|--------------------------|----------------|------------|
| Sector | Program | Space Type | Measured | price per unit (m²/€) | Total price | remarks |
| | | | (m²) | price per unit (iii / c/ | | |
| Sector 1.1 | Exhibition Space | | , , | | 40,296,000.00 | |
| | | Exhibition Space GF | 12,420.00 | 1,200.00 | 14,904,000.00 | |
| | | Exhibition Space 1st | 11,840.00 | 1,200.00 | 14,208,000.00 | |
| | | Café + Reception | 400.00 | 1,400.00 | 560,000.00 | |
| | | VIP Mezzanine | 1,140.00 | 1,600.00 | 1,824,000.00 | |
| | | Back of House | 4,000.00 | 1,000.00 | 4,000,000.00 | |
| | | Underground | 6,000.00 | 800.00 | 4,800,000.00 | |
| ector 1.2 | Exhibition Space | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 19,438,000.00 | |
| | | Exhibition Space GF | 5,100.00 | 1,200.00 | 6,120,000.00 | |
| | | Exhibition Space 1st | 4,900.00 | 1,200.00 | 5,880,000.00 | |
| | | Café + Reception | 370.00 | 1,400.00 | 518,000.00 | |
| | | Back of House | 1,800.00 | 1,000.00 | 1,800,000.00 | |
| | | Underground | 6,400.00 | 800.00 | 5,120,000.00 | |
| ector 2 | Exhibition Space | o i i de la constanta | 0, 100100 | 555.55 | 26,260,000.00 | |
| coto. L | zamonion opuce | Exhibition Space GF | 8,000.00 | 1,200.00 | 9,600,000.00 | |
| | | Café + Reception | 900.00 | 1,400.00 | 1,260,000.00 | |
| | | Back of House | 1,800.00 | 1,000.00 | 1,800,000.00 | |
| | | Underground | 17,000.00 | 800.00 | 13,600,000.00 | |
| | | | | | | |
| ector 3 | Bussiness Center | | | | 41,355,000.00 | |
| | Hotel | | | | | |
| | | Primary Space | 4,860.00 | 2,500.00 | 12,150,000.00 | |
| | | Back of House | 3,310.00 | 1,500.00 | 4,965,000.00 | |
| | Multipurpose Hall | | | | | |
| | | Primary Space | 2,400.00 | 2,100.00 | 5,040,000.00 | |
| | | Back of House | 1,100.00 | 1,000.00 | 1,100,000.00 | |
| | Retail | | | | | |
| | | Primary Space | 6,000.00 | 1,100.00 | 6,600,000.00 C | old Shell |
| | | Back of House | 3,000.00 | 1,000.00 | 3,000,000.00 | |
| | Office | | | | | |
| | | Primary Space | 5,000.00 | 1,300.00 | 6,500,000.00 V | Varm Shell |
| | | Back of House | 2,000.00 | 1,000.00 | 2,000,000.00 | |
| | | | | | | |
| ector 4 | Congress Center | | | | 34,150,000.00 | |
| | | Conference Rooms | 6,000.00 | 1,800.00 | 10,800,000.00 | |
| | | Luxury Exhibition Hall | 6,500.00 | 1,500.00 | 9,750,000.00 | |
| | | Underground Space | 17,000.00 | 800.00 | 13,600,000.00 | |
| | | | | | | |
| ector 5 | | | | | 17,615,000.00 | |
| | Café | Café | 400.00 | 1,400.00 | 560,000.00 | |
| | Canopy | Canopy | 51,000.00 | 180.00 | 9,180,000.00 | |
| | | | | | | |
| | Landscape | Hardscape | 69,000.00 | 75.00 | 5,175,000.00 | |
| | | Softscape | 60,000.00 | 45.00 | 2,700,000.00 | |
| ИISC | | | | | 2,080,000.00 | |
| | Elevated Bridges | | 800.00 | 2,600.00 | 2,080,000.00 | |

Grand Total:

Preliminary Cost Budget

Notes:

- (1) The above prices include Main Construction Contractor's general expenses and profit
- (2) The above prices do not include VAT

181,194,000.00



International Architectural Design Competition for the Thessaloniki ConfEx Park Data Sheet for the evaluation of the Economy of the Project



| | | Plot Area (I) = 39.3 | SECTORS I & II Plot Area (I) = $39.397,11 \text{ m}^2$ Plot Area (| (II) = 16.339,68 m ² | SECT Plot Area = 2 | SECTOR III Plot Area = 20.034,00 m ² | SECTOR IV Plot Area = $13.971,22 \text{ m}^2$ | DR IV 3.971.22 m ² | SECTOR V Plot Area = $58.900,71 \text{ m}^2$ | DR V 8.900.71 m ² | TOTAL Plot Area = 161.769,04 m ² | 「AL §1.769,04 m ² |
|----------------|---|-----------------------------------|---|--|---------------------------|--|--|---|---|--|---|--|
| N _o | Description | Proposed by Competitor (SECTOR I) | Proposed by Competitor | Programme Requirements (SECTOR I & II) | Proposed by Competitor | Programme Requirements | Proposed by Competitor | Programme Requirements | Proposed by Competitor | Programme Requirements | Proposed by Competitor | Programme Requirements |
| A. Gen | A. General Metrics | | | | | | | | | | - | |
| A1 | Above Ground GFA (m²) | 40,162 | 8,289 | max 48.500 | 25,688 | max 26.750 | 15,697 | max 16.500 | 247 | max 250 | | max 92.000 exd. preserved bldgs |
| A2 | Below Ground Parking use GFA (m²) | 13,828 | 0 | 1 | 24,500 | 1 | 16,400 | 1 | 0 | , | | - |
| А3 | Below Ground other Aux uses GFA (m²) | 7,020 | 4,880 | - | 3,635 | - | 2,260 | - | 0 | - | | |
| Α4 | Net Floor Area NFA (m²) | 39,879 | 8,210 | - | 25,117 | - | 15,584 | - | 240 | - | | |
| A5 | Building Coverage ratio (%) & Area (m²) | 58.3% 22,992 | 680'6 %9·55 | - | 59% 12,000 | max 60% - 12.020,40 | 83% 11,629 | - | 0.4% 247 | - | | max 45% - 64.000 excl. AAMTH – pres.blc |
| A6 | Gross Volume above Ground (m³) | 281,164 | 72,080 | - | 110,176 | - | 111,772 | - | 864 | - | | |
| Α7 | Foundations Footprint (m²) | 22,290 | 9,089 | - | 17,686 | - | 10,740 | - | 247 | • | - | |
| A8 | Façade (m²) | 15,856 | 4,130 | 1 | 11,365 | | 7,014 | | 225 | 1 | , | |
| А9 | Exterior Openings (m²) | 646 | 319 | 1 | 560 | 1 | 209 | | 11 | 1 | , | |
| A10 | Accessible Roof surface (m²) | 2,530 | 880 | 1 | 1,731 | | 0 | 1 | 0 | 1 | , | |
| A11 | Inaccessible Roof surface (m²) | 17,489 | 7,113 | 1 | 10,273 | | 11,082 | 1 | 247 | , | , | |
| A12 | Green Roof surface (m²) | 700 | 300 | | 2,100 | | 1,300 | • | 0 | , | | |
| A13 | Balconies / Open Covered Areas (m²) | 0 | 0 | 1 | 858 | Hotel: max 40% of GFA | 0 | 1 | 0 | 1 | | |
| B. Prog | B. Programme Area | | | | | | | | | | | |
| B1 | Exhibition Center Area (m²) | 37,415 | 8,336 | 47.000 | - | - | - | - | - | - | - | - |
| В2 | Administration Offices Area (m²) | 1,590 | 0 | 1.500 | 1 | 1 | - | • | • | 1 | , | |
| В3 | Hotel (m ²) | 1 | | | 6,900 | 7.250 | | , | • | , | • | |
| В4 | Commercial Complex / Retail—Recreation (m²) | 1 | 1 | 1 | 8,922 | 9.000 | - | • | • | 1 | , | |
| В5 | Commercial Complex / Offices (m²) | 1 | | | 6,860 | 7.000 | | , | • | , | • | |
| В6 | Multi-purpose Hall (m²) | 1 | | | 3,527 | 3.500 | | , | • | , | • | |
| В7 | Conference Center Area (m²) | 1 | | | 1 | | 10,504 | 10.500 | • | , | • | |
| В8 | Luxury Exhibition Hall Area (m²) | | 1 | ı | 1 | | 5,902 | 6.000 | , | , | | |
| В9 | Cafeteria (m²) | 1 | 1 | 1 | 1 | ı | 1 | , | 247 | 250 | , | |
| B10 | Underground Parking Area (m²) | 12,700 | 0 | 12.500 | 24,120 | 25.000 | 16,400 | 15.000 | , | , | 1 | |
| B11 | Underground Storage Area (m²) | 6,930 | 4,870 | 12.000 | 3,304 | 3.500 | 1,920 | 2.000 | 1 | 1 | | |
| C. Ope | C. Open Areas | | | | | | | | | | | |
| C1 | Provide Area of Roadways (m²) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11,850 | 1 | , | |
| C2 | Provide Area of Pedestrian Pathways (m²) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 73,990 | 1 | , | |
| C3 | Provide Area of other Hardscape (m²) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1,570 | , | 1 | |
| C4 | Provide Area of green Landscape without underground buildings (m ²) | - | - | - | | - | - | - | 27,475 | • | | |
| C5 | Provide Area of green Landscape over underground buildings (m²) | • | | ı | 1 | | • | • | 3,150 | ı | , | |
| C6 | Provide Area of other Landscape (m²) | 1 | ı | ı | 1 | ı | ı | ı | 5,340 | 1 | 1 | |
| C7 | Provide Area of Water Features (m²) | - | - | 1 | 1 | 1 | - | ı | 2,147 | | , | |
| C8 | Provide Area of other structures (m ⁻) | • | | • | • | • | • | • | 49,950 | • | • | |



ARCHIPELAGO

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SUSTAINABILITY STRATEGY

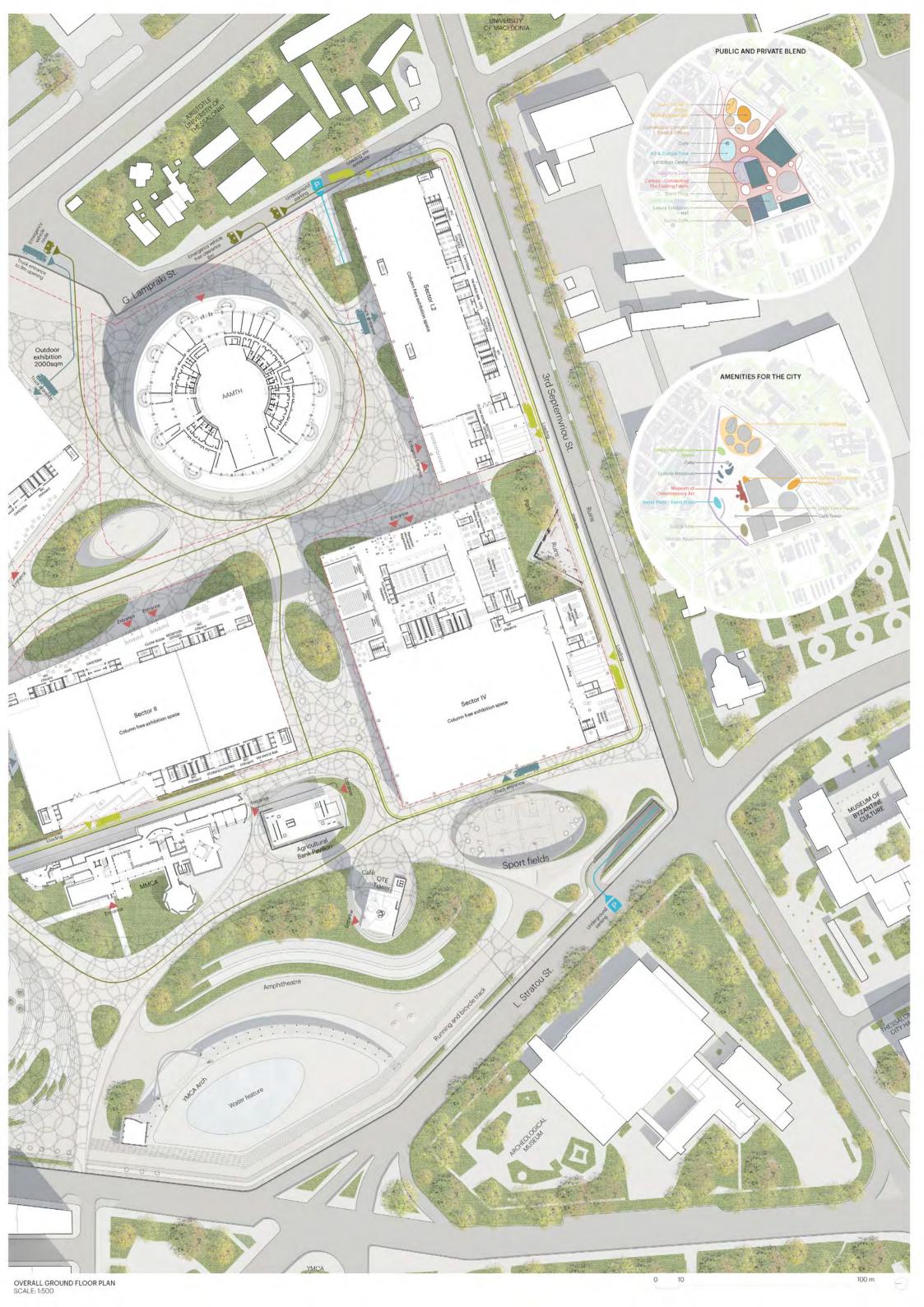


TERRITORIAL ECOLOGICAL CONNECTIONS



























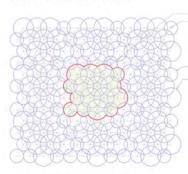
PUBLIC PARK

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The largest of these rooms is centred around the YMCA archway and will be home to a multi-functional mirror water feature that transforms into an events fluid open space provides large flexible stages for plaza or ice-rink, depending on the season. Adjacent eterraced lawns offer families a place to unwind and best suited for a dynamic community. In addition, relax whilst offering elevated views of the activities beyond. Thessaloniki is a dynamic city, and with its scape with a tree-lined promenade and a bicycle and development, the arts and cultural island will enhance this by providing opportunities for local

Thessaloniki Confex park will stitch the fabric of this creatives to display or perform their craft. Intimate rooted trading metropolis back together, reconnects tages nestled within the landscape will host painting lost pedestrian routes between city and sea and providing a dynamic series of spaces to enrich the tive displays will provide an understanding of the community it sits within. The park's sinuous forms park's ecological and environmental credentials. draw people from existing routes and encourage Situated in the South-Eastern corner of the park, exploration around a new archipelago of landscape a sports island will host a multi-purpose court and skate park, encouraging exercise and giving the local youth a space to come together.

CANOPY STRUCTURAL SYSTEM



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WATER CYCLE Weter Cross ----

EXTERIOR SPACES COMFORT, LIVING NATURE AND SERVICES



















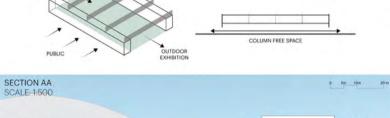
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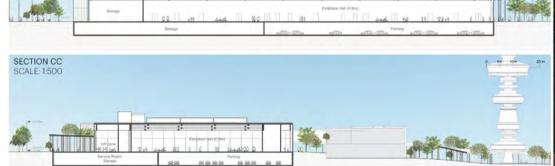
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SECTION BB SCALE: 1:500







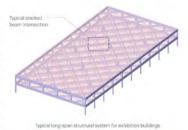


Envelope Structure Structure Linkbiton Loading Dock Office Structure Vector Enterance

EXHIBITION HALL STRUCTURAL SYSTEM

Each of the exhibition buildings features a dramatic, long-span structure to create a flexible, open floor plan that can accommodate different future uses. To minimize the structural depth, a system of stacked, interwoven wide flange beams, tied together with stiffener plates, effectively create a two-way span floor system with limited structural steel.

A limited number of columns span between the ground and the roof or the ground and the second level. For sectors 11 and 1.2 where a clear span is desirable at the ground level, a series of fabricated, tapered columns turn the full structure into a Vierendeel truss that allows for a clear span below. The columns are tapered to increase the section size at the top and bottom where the structural need is greatest. Each of the exhibition buildings has a series of concrete cores at the perimeter of the long-span structure to complete the building lateral system.



Typical long-span structural system for exhibition buildings

beams

Stiffener plate
create effects
deep sections

Typical interior elevation

Tapered, fabricated interior columns create effective Vistraeded truss

1 25m

Typical interior elevation

1 25m

1 25m

Typical interior elevation

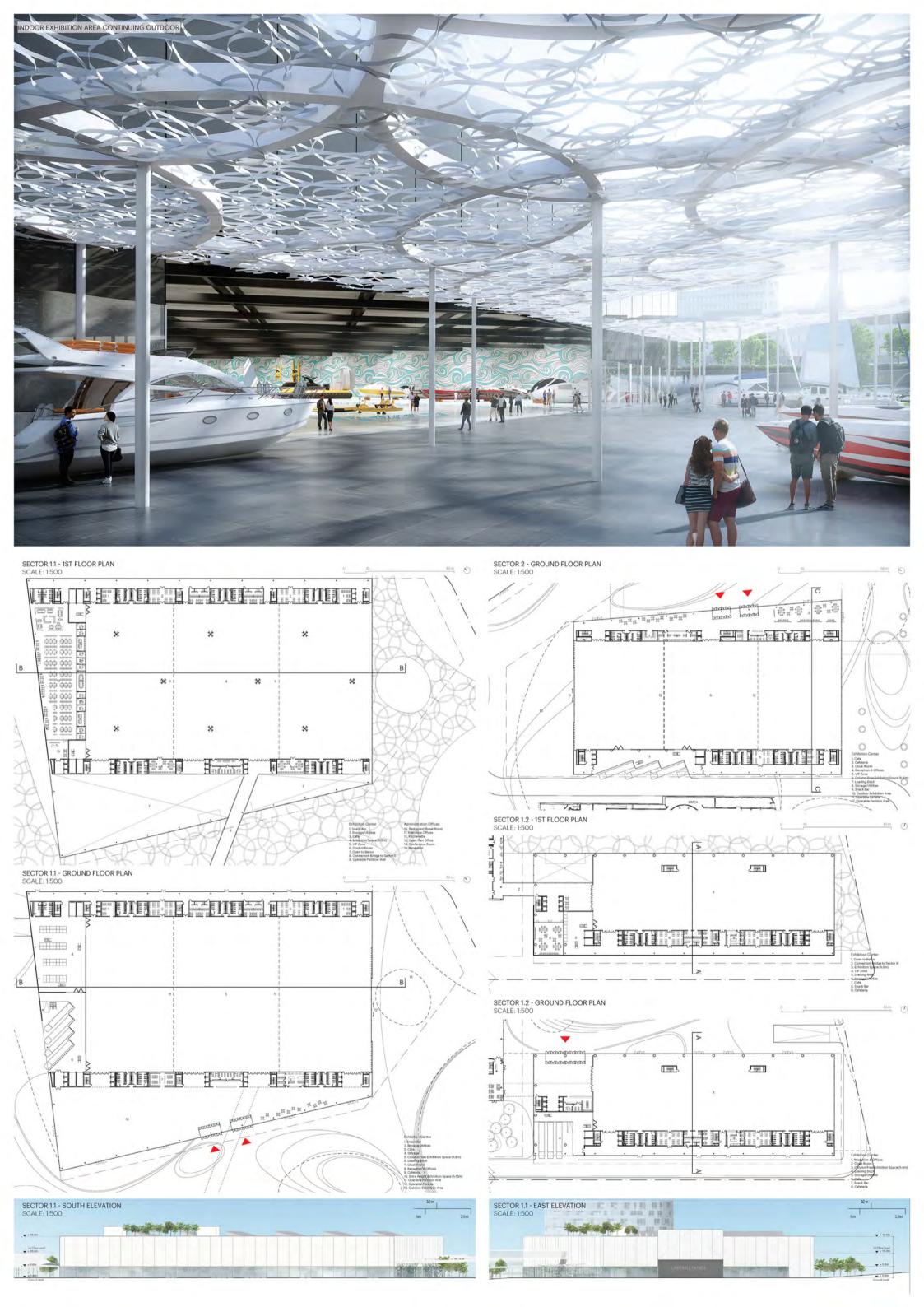
Vierendeel truss column 3D view

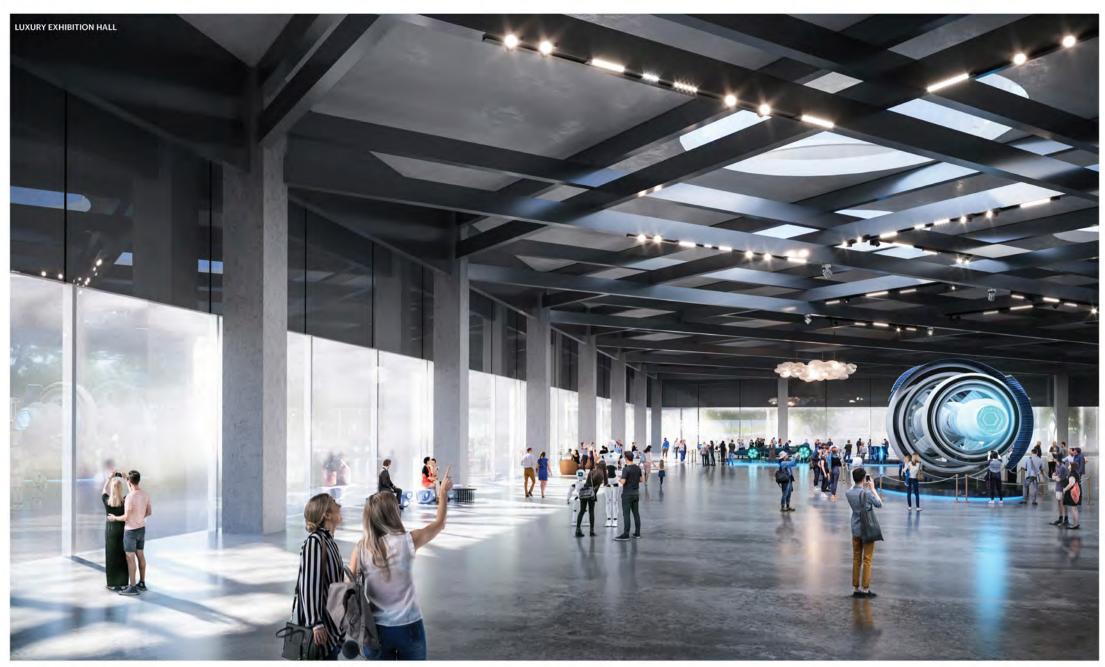
Vierendeel truss column 3D view

Vierendeel truss column 3D view





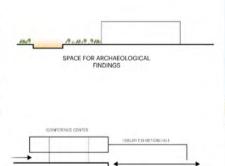




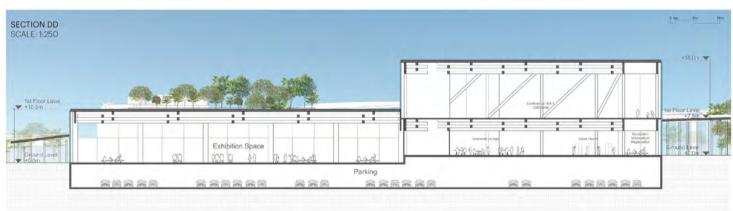
CONGRESS CENTER

The Congress Center is connected to the Exhibition Center network - but can function separately. The building is designed similar to the Exhibition Center - with a simple facade of clear glass on ground level and opaque glass on the second floor. The very light and open structural system allows for maximum flexibility of the spaces inside. The building is divided into two major components for the Conference function and the Luxury Hall function. The two sides can simultaneously operate independent events and gatherings. The Luxury Hall provides a roof garden which can be used to experience panoramic views of the surroundings.

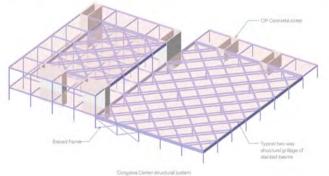
A fragment of the site is allocated to the potential archaeological findings and allows these to become part of the unique nature of the site and this architecture.



COLUMN FREE SPACE

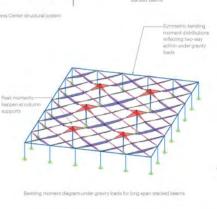


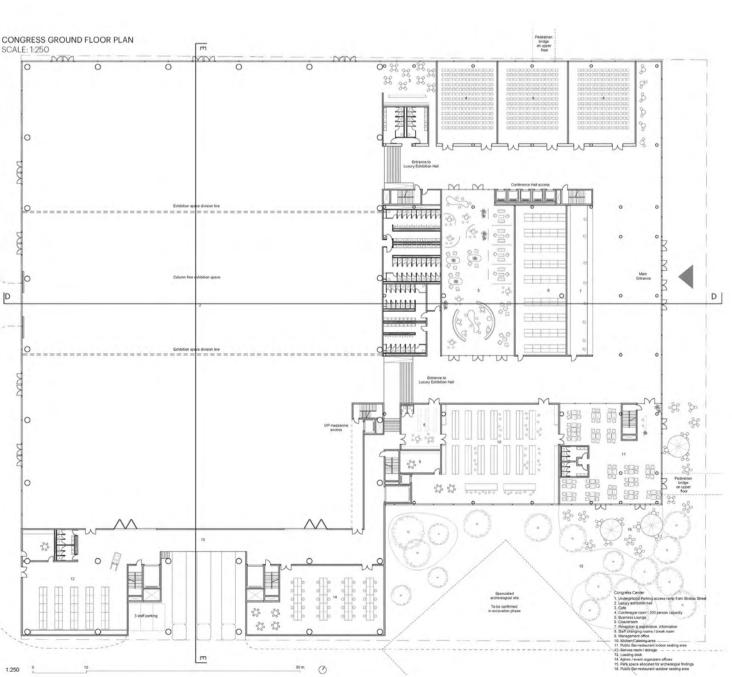




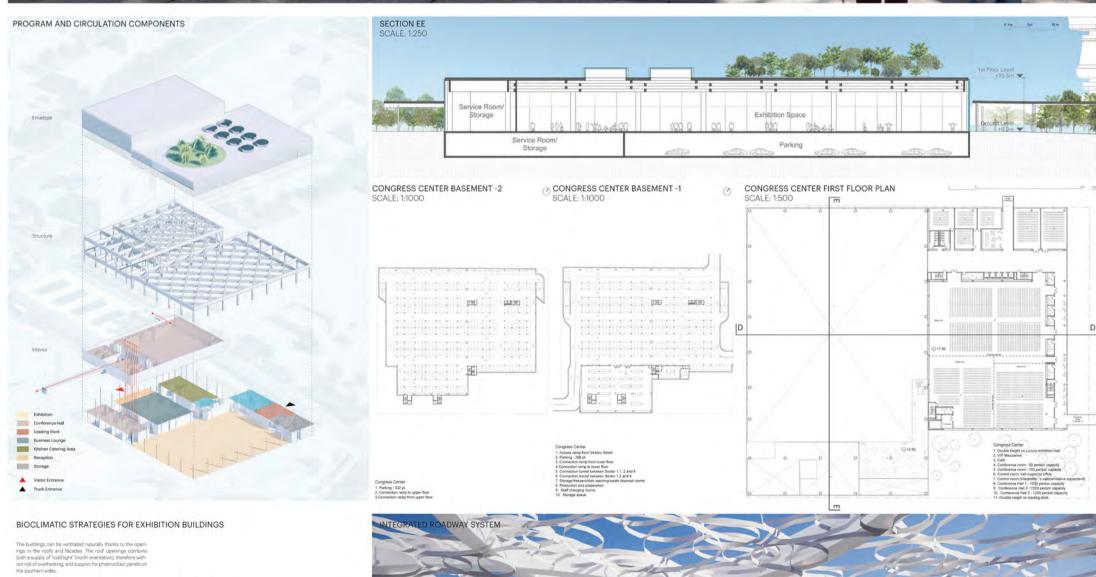
The structure for the congress center utilizes a two-way beam grillage strategy, similar to the system deployed in the exhibition spaces, where long-spans are required for programmatic purposes at the ground and second floor levels.

Perimeter columns are spaced 13 mapart and a simplified two-way floor system of wide flange beams and CIP concrete slabs is implemented where long spans are not necessary architecturally. The lateral system is comprised of a series of structural cores and braced frames balanced across the building structure to avoid torsional irregularities in the lateral behavior.













BUSINESS CENTER

The Business Center is a manifestation of the diverse and dense nature of Thessalonic Ki's urban fabric. The buildings are designed as a collection of Islands acting like an urban village. The landscape is a series of terraces which blur the scale between Egnatia street and the newly designed park. The architecture is porous and open to allow flexible entries and multiple path possibilities. All ground level retail are connected together with outdoor space creating a sense of a village in a park.

The hotel is located facing Sintrivanious Square, establishing an iconic landmark at the corner, It projects out as the tallest Island this corner piece attracts the public to the vast and diverse public space located within the site.

BUSINESS CENTER STRUCTURAL SYSTEM

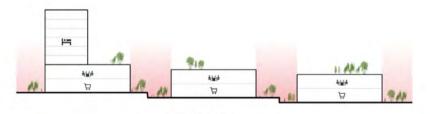
There are five buildings in the Business Center complex, with the height of the buildings.



HOTEL FACADE SCREEN

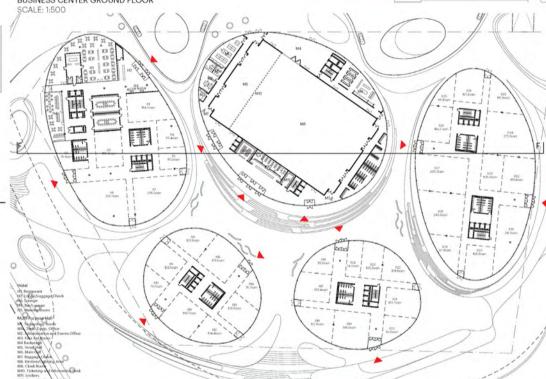


MULTI-PORPOSE HALL



BUSINESS CENTER URBAN VILLAGE

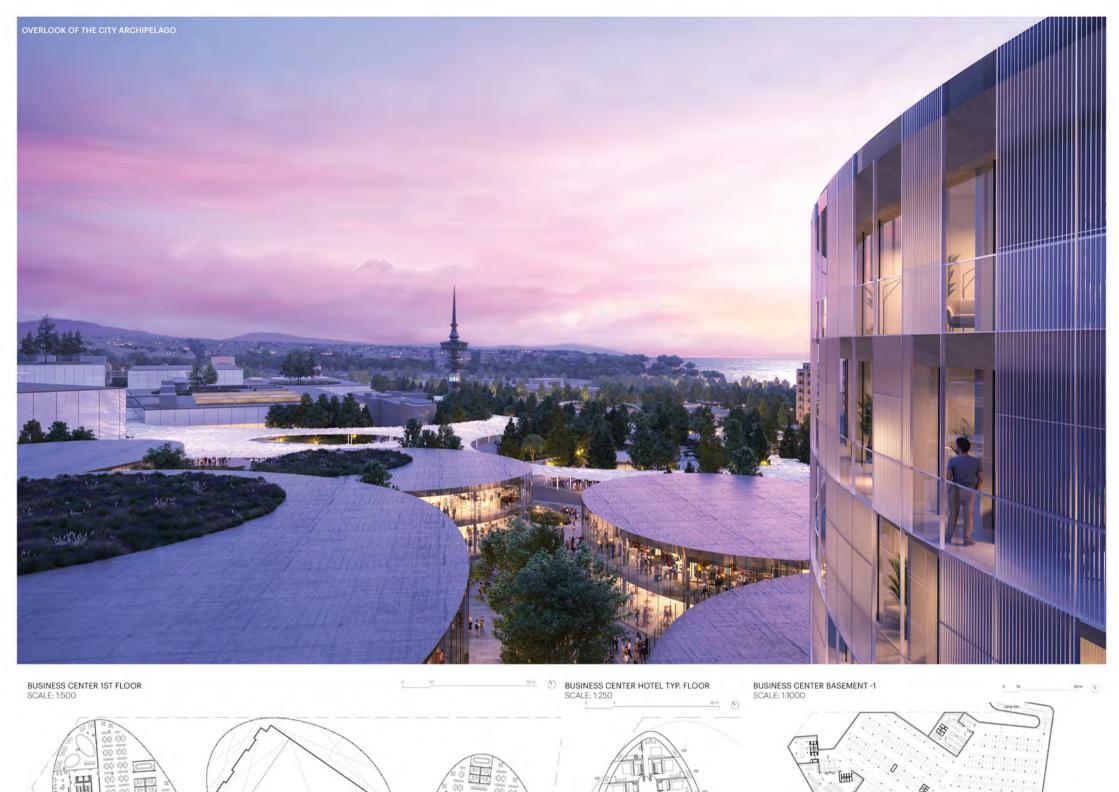


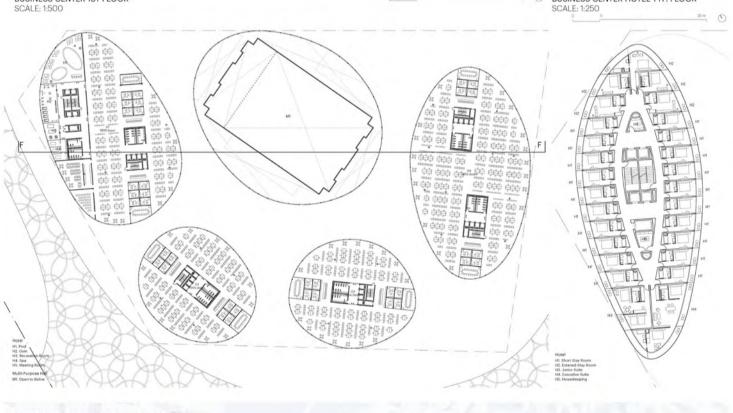






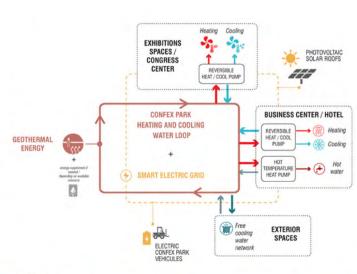












A SMART AND SHARED ENERGY NETWORK, POWERED BY RENEWABLE SOURCES

