ARCHITECTURE STUDENT CONTEST

21st INTERNATIONAL EDITION, BELGRADE 2026

ANOTHER PLACE | TEAM no. 13

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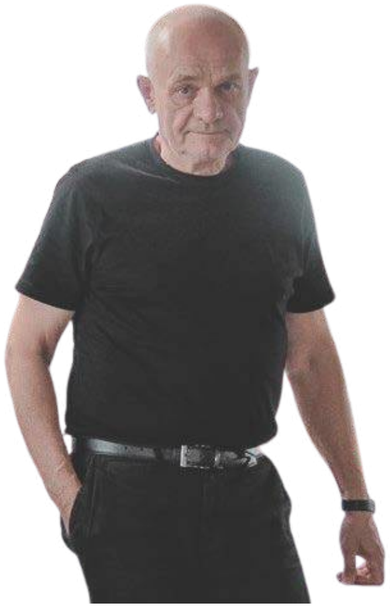

ING. ARCH. PAVEL PAŇÁK


let's go to
another
place.

UNDERSTANDING THE SITES

ZONE A_CEMENT PLANT

BELGRADE, THE CAPITAL AND LARGEST CITY OF SERBIA, STANDS AT THE CONFLUENCE OF THE SAVA AND DANUBE RIVERS, FORMING ONE OF THE MOST HISTORICALLY LAYERED URBAN LANDSCAPES IN SOUTHEAST EUROPE. IT IS AMONG THE OLDEST CONTINUOUSLY INHABITED CITIES IN EUROPE, WITH ORIGINS REACHING BACK TO THE VINČA CULTURE OF THE 6TH MILLENNIUM BC. OVER CENTURIES, THE CITY EVOLVED UNDER THE CELTS, ROMANS, BYZANTINES, OTTOMANS, AUSTRO-HUNGARIANS, AND YUGOSLAV MODERNISM, CREATING A UNIQUE ARCHITECTURAL PALIMPSEST.

TODAY, BELGRADE IS A DYNAMIC METROPOLITAN CENTER KNOWN FOR ITS CULTURAL DIVERSITY, VIBRANT PUBLIC SPACES, AND STRATEGIC POSITION AT THE CROSSROADS OF EUROPEAN ROUTES. ITS FORTRESS AT KALEMEGDAN, OVERLOOKING THE RIVER CONFLUENCE, SYMBOLIZES THE CITY'S RESILIENCE AND ITS ROLE AS A GATEWAY BETWEEN CENTRAL EUROPE AND THE BALKANS.

WITHIN THIS CONTEXT, THE SAINT-GOBAIN ARCHITECTURE STUDENT CONTEST GAINS A SPECIAL DIMENSION. THE COMPETITION, LAUNCHED IN SERBIA IN 2004 AND NOW INVOLVING OVER 1,300 STUDENTS FROM MORE THAN 30 COUNTRIES, FOCUSES ON SUSTAINABLE ARCHITECTURE, ENVIRONMENTAL RESPONSIBILITY, AND THE TRANSFORMATION OF REAL URBAN SITES. IT CHALLENGES STUDENTS TO DESIGN PROJECTS THAT IMPROVE WELL-BEING, ENERGY EFFICIENCY, AND CARBON REDUCTION, WHILE RESPONDING TO LOCAL CULTURAL AND SPATIAL CONDITIONS.

THE CONTEST'S INTERNATIONAL STAGE—HOSTED IN VARIOUS EUROPEAN CITIES—BRINGS TOGETHER NATIONAL WINNERS FOR A THREE-DAY EVENT INCLUDING PRESENTATIONS, JURY EVALUATIONS, CITY TOURS, AND CULTURAL EXCHANGE. ITS LONG-TERM MISSION IS TO CONNECT FUTURE ARCHITECTS WITH REAL-WORLD CHALLENGES AND TO PROMOTE ARCHITECTURE THAT IS BEAUTIFUL, USEFUL, AND SUSTAINABLE, ALIGNING WITH SAINT-GOBAIN'S VISION OF "MAKING THE WORLD A BETTER HOME."

BELGRADE, WITH ITS MIX OF HISTORICAL DEPTH AND CONTEMPORARY TRANSFORMATION, PROVIDES AN IDEAL BACKDROP FOR REFLECTING ON SUSTAINABLE URBAN DEVELOPMENT—PRECISELY THE TYPE OF CHALLENGE THE SAINT-GOBAIN CONTEST ENCOURAGES STUDENTS TO ADDRESS

NVIRONMENTAL RESPONSIBILITY, AND THE TRANSFORMATION OF REAL URBAN SITES.

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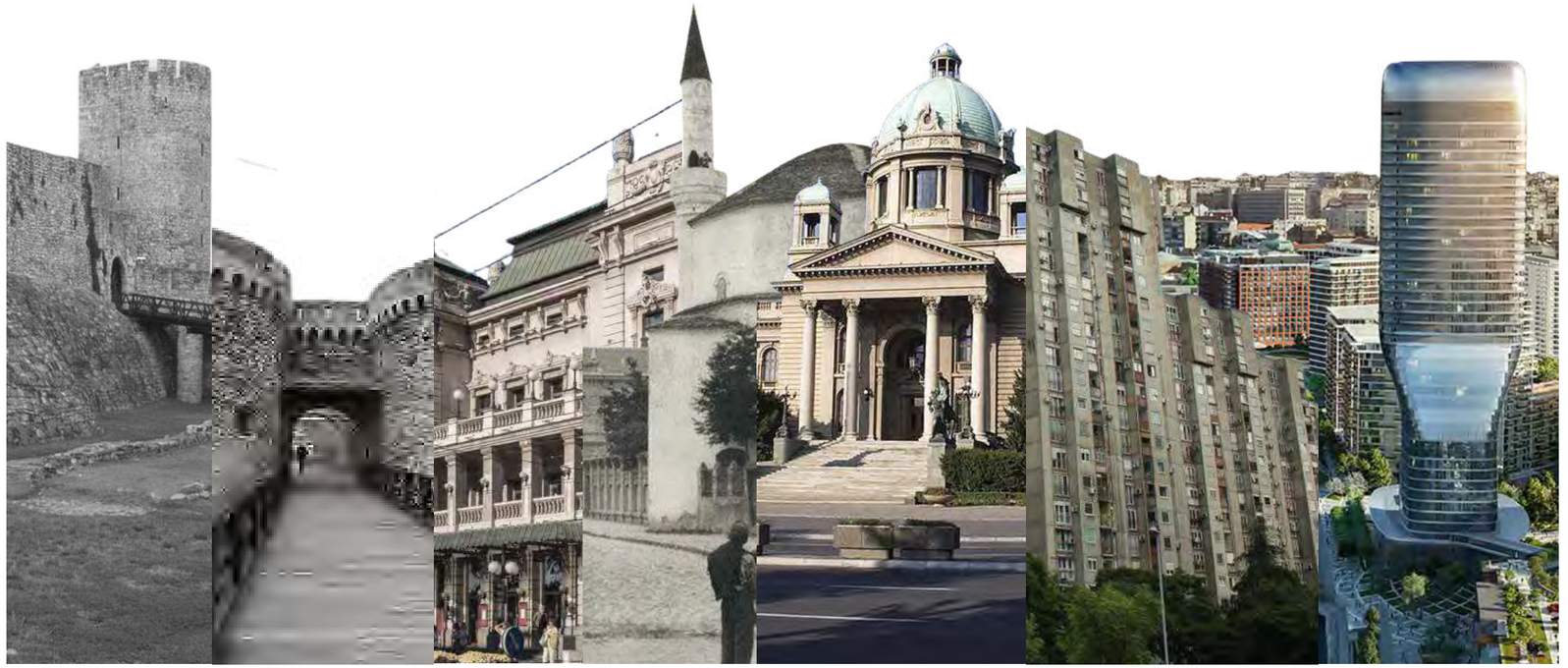
HISTORY



PREHISTORY, ANTIQUITY – ROMAN SINGIDUNUM
(~6TH BC – 6TH AD)
ROMAN MILITARY ARCHITECTURE (STONE BLOCKS, SYMMETRY).

FOUNDATIONS OF URBANISM — EMERGENCE OF BELGRADE'S FORTIFIED CORE.

BYZANTINE PERIOD (6TH – 15TH CENTURY)
BYZANTINE SACRED ARCHITECTURE (DOMES, CROSSES, STONE BUILDINGS).

FORMATION OF THE CITY'S SPIRITUAL IDENTITY, CONNECTION WITH ORTHODOXY.

OTTOMAN PERIOD (1521 – EARLY 19TH CENTURY)
ORIENTAL STYLE, WOOD, BRICK, LOW VOLUMES, INNER COURTYARDS.

FOUNDATIONS OF URBAN PLANNING — DEVELOPMENT OF BELGRADE'S FORTRESS CORE.

19TH CENTURY – MODERNIZATION (1804–1914)
NEOCLASSICISM, BAROQUE, HISTORICISM.

TRANSFORMATION OF AN ORIENTAL TOWN INTO A EUROPEAN CAPITAL.

INTERWAR PERIOD (1804–1914)
ART DECO, EARLY MODERNISM (FUNCTION > DECORATION).

BEGINNING OF MODERNISM — BELGRADE BECOMES PART OF EUROPEAN TRENDS

SOCIALIST ERA AND NEW BELGRADE (1945–1989)
SOCIALIST MODERNISM, BRUTALISM (CONCRETE, MONUMENTALITY).

NEW URBAN MODEL — FUNCTIONAL ZONES, LARGE BLOCKS, COLLECTIVE HOUSING.

THE PRESENT (1990 – TODAY)
GLOBALIZED POSTMODERNISM, HIGH-TECH ARCHITECTURE.

CONTROVERSIAL TRANSFORMATION OF THE CITY — NEW SYMBOLS AND LOSS OF AUTHENTICITY.

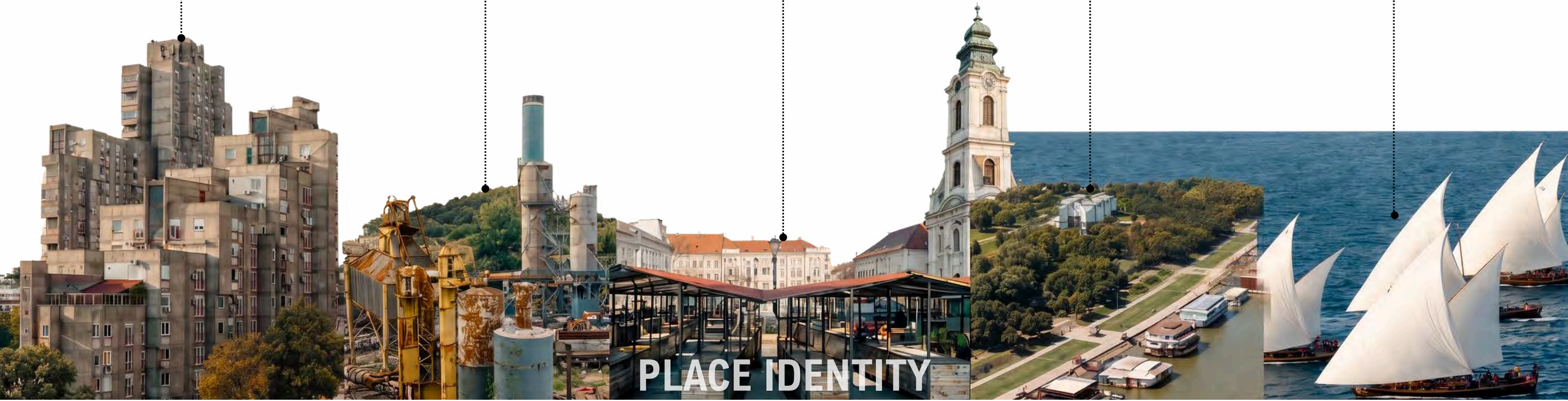
BRUTALISM

CEMENT FACTORY

MARKETS

GREEN WATERFRONT

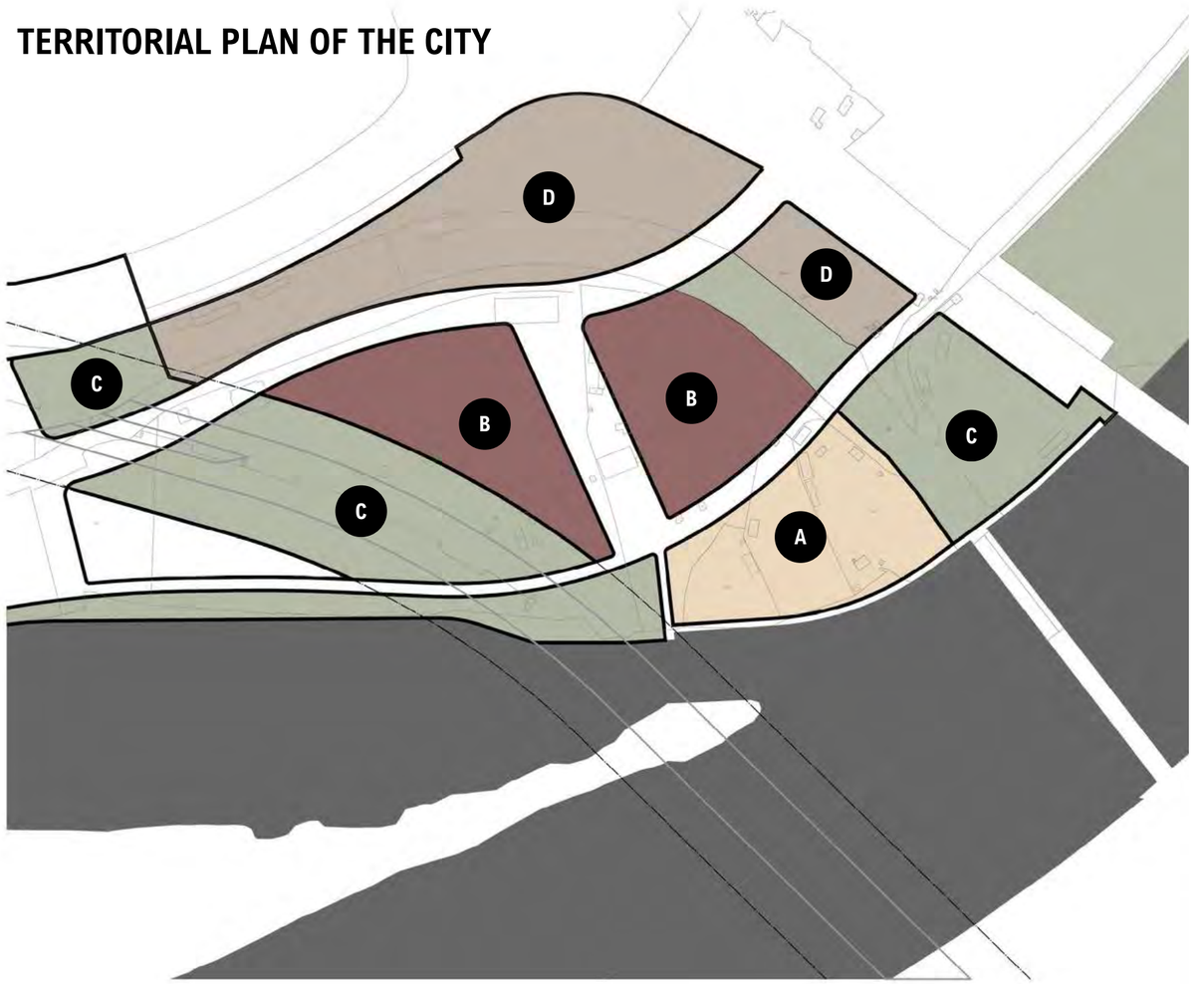
YACHTING



PLACE IDENTITY

ORIGINAL SITUATION WITH ELEVATION

TERRITORIAL PLAN OF THE CITY

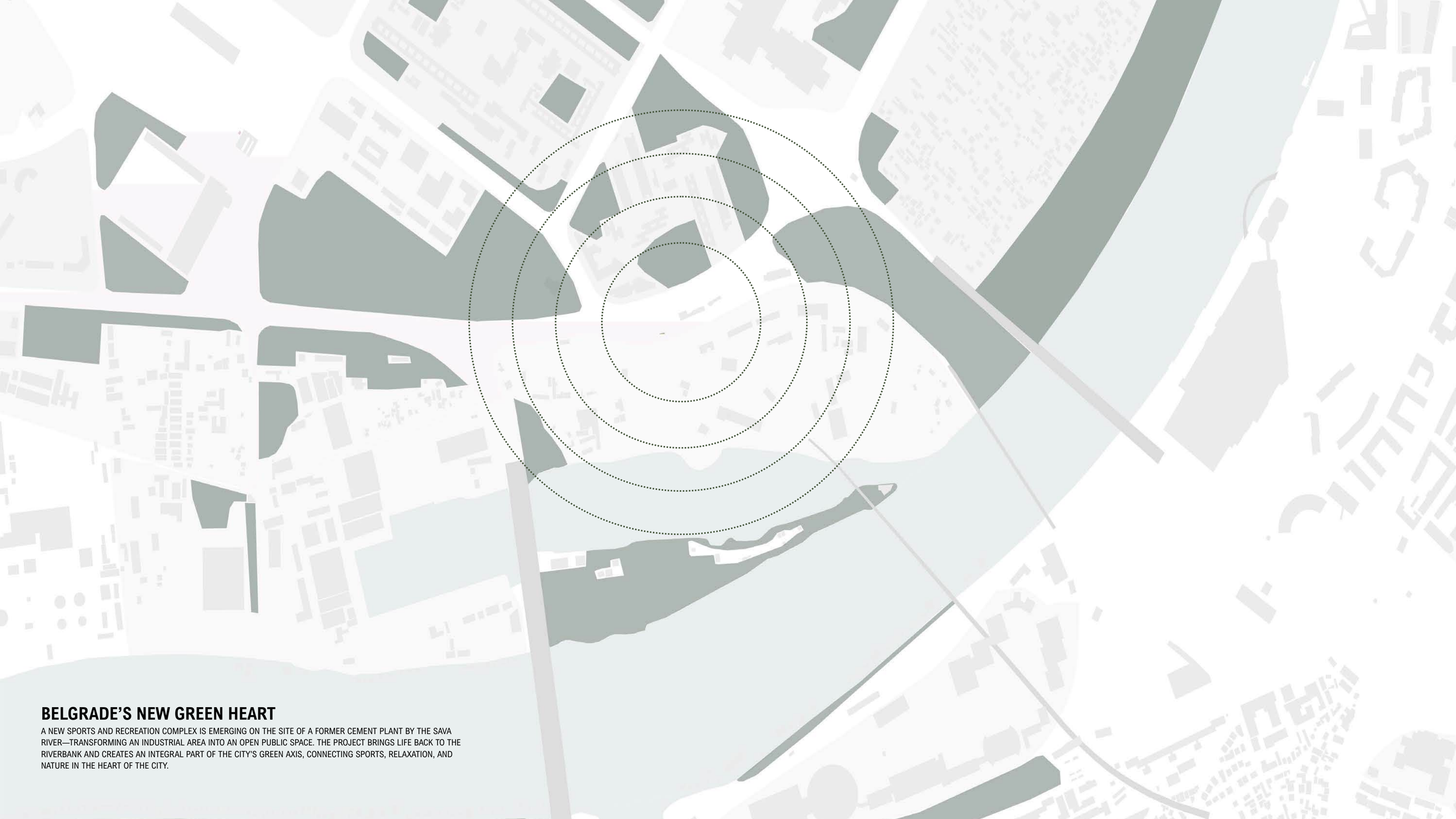


RELIEF OF THE ORIGINAL TERRAIN

- **A** AREAS FOR SPORTS FACILITIES AND COMPLEXES
- **B** URBAN CENTER
- **C** VEGETATION
- **D** COMMERCIAL ZONE + URBAN CENTER

PART OF THE URBAN PUBLIC PROMENADE

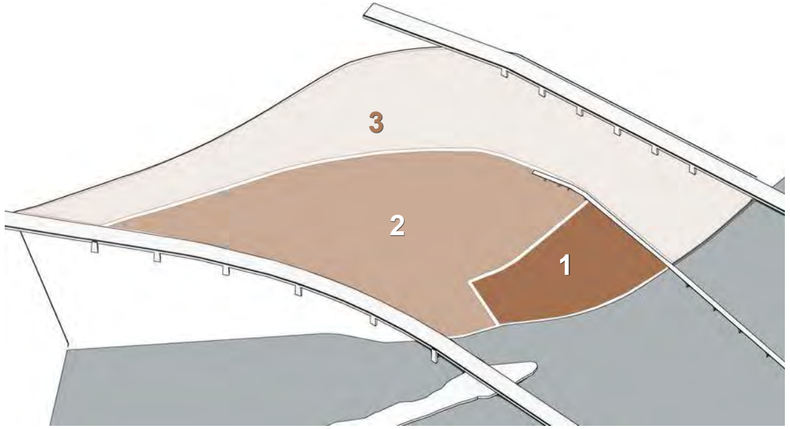
THE NEW DISTRICT WILL BECOME AN INTEGRAL PART OF THE CITY PROMENADE BY LINKING A SERIES OF PUBLIC SPACES ALONG THE SAVA RIVER AND OPENING THE WATERFRONT TO THE PUBLIC.



BELGRADE’S NEW GREEN HEART

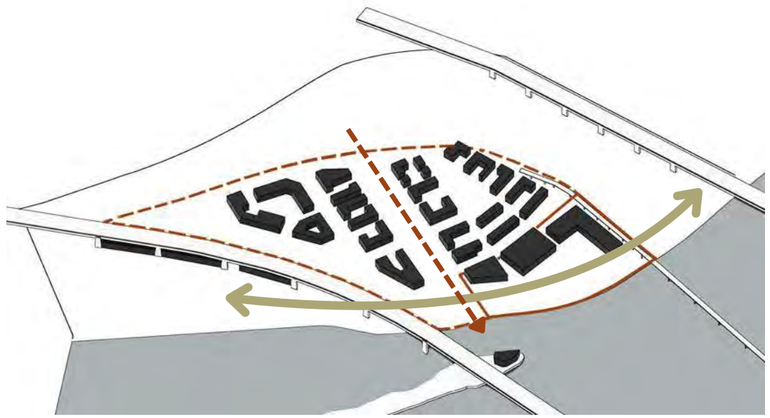
A NEW SPORTS AND RECREATION COMPLEX IS EMERGING ON THE SITE OF A FORMER CEMENT PLANT BY THE SAVA RIVER—TRANSFORMING AN INDUSTRIAL AREA INTO AN OPEN PUBLIC SPACE. THE PROJECT BRINGS LIFE BACK TO THE RIVERBANK AND CREATES AN INTEGRAL PART OF THE CITY'S GREEN AXIS, CONNECTING SPORTS, RELAXATION, AND NATURE IN THE HEART OF THE CITY.

PHASING STRATEGY



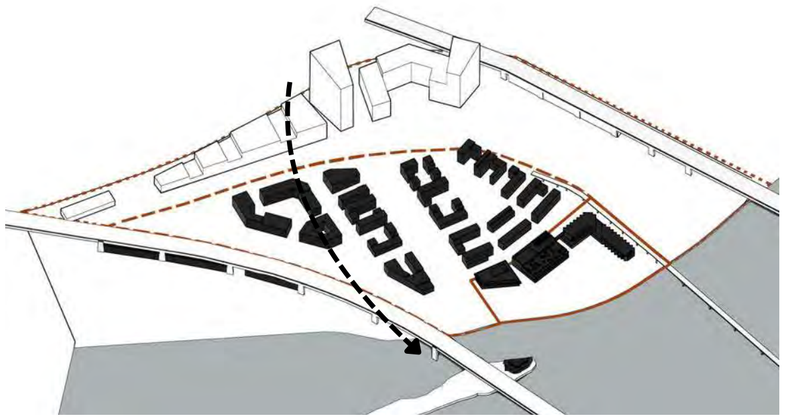
PHASE 1: SPORTS & ACCOMMODATION DEVELOPMENT OF THE PRIMARY SITE FEATURING A SPORTS COMPLEX AND SPECIALIZED ATHLETE HOUSING MODULES.
PHASE 2: RESIDENTIAL & CIVIC INFRASTRUCTURE EXPANSION INTO COMMERCIAL HOUSING, OFFICE SPACES, AND ESSENTIAL PUBLIC AMENITIES LIKE KINDERGARTENS.
PHASE 3: COMMERCIAL HUB & LANDMARK FINAL STAGE FOCUSED ON SHOPPING CENTERS, ADDITIONAL ADMINISTRATIVE PREMISES, AND A SIGNATURE HIGH-RISE BUILDING.

SYMBIOSIS OF CITY AND RIVER



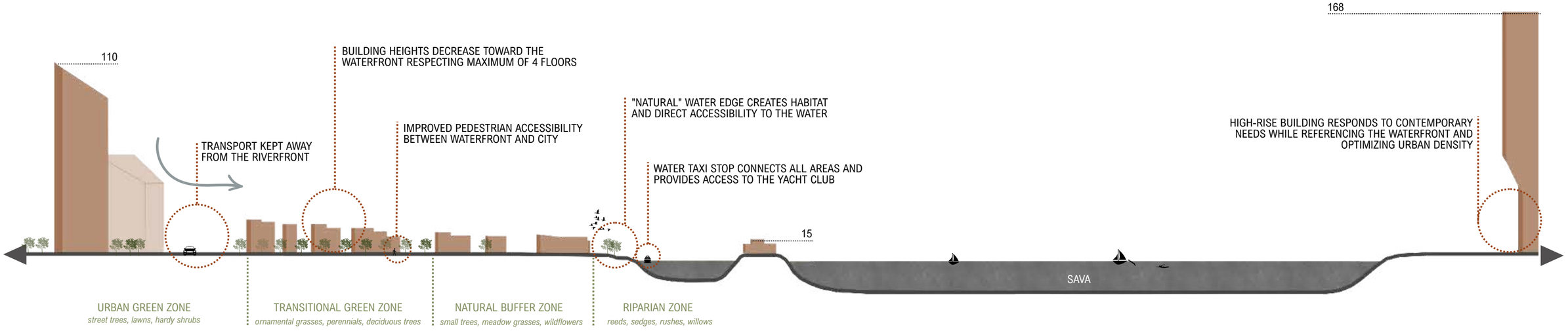
THE URBAN CONCEPT IS BASED ON A STRONG CENTRAL AXIS THAT ORGANIZES THE BUILT ENVIRONMENT WHILE MAINTAINING A DIRECT CONNECTION TO THE NATURAL SURROUNDINGS. THE PRIMARY STRUCTURE OF THE SETTLEMENT FOLLOWS A CLEAR DIRECTIONAL LOGIC, CREATING A RHYTHMIC AND ORGANIZED URBAN FABRIC. A KEY PRIORITY OF THE PROPOSAL IS THE PRESERVATION OF A CONTINUOUS GREEN BELT ALONG THE RIVERBANK. THIS ENSURES THAT THE URBAN EXPANSION DOES NOT ISOLATE THE CITY FROM THE WATER, BUT RATHER ENHANCES THE RIVERFRONT AS A PUBLIC RECREATIONAL SPACE. BY RESPECTING THE COASTLINE, THE DEVELOPMENT CREATES A HARMONIOUS TRANSITION BETWEEN THE DENSE BUILT-UP ZONES AND THE ORGANIC LANDSCAPE OF THE WATERFRONT.

URBAN HEIGHT GRADATION

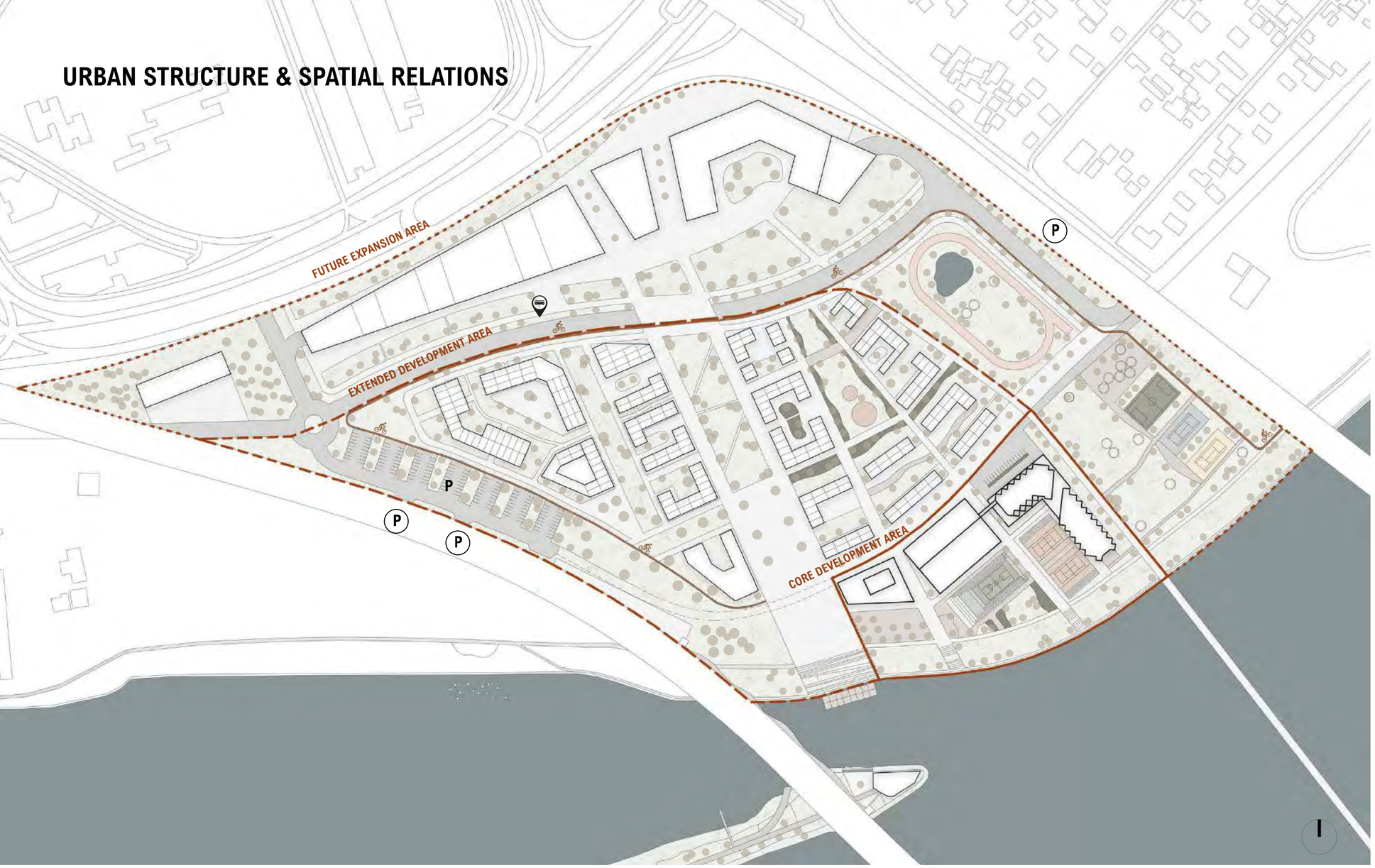


THE URBAN STRATEGY UTILIZES A CASCADING HEIGHT LOGIC WHERE BUILDING VOLUMES GRADUALLY DECREASE AS THEY APPROACH THE RIVERFRONT. THIS TERRACED ARRANGEMENT OPTIMIZES PANORAMIC VIEWS FOR THE ENTIRE DEVELOPMENT, ENSURES MAXIMUM SUNLIGHT PENETRATION INTO PUBLIC SPACES, AND CREATES A TRANSITION TO A MORE COMFORTABLE, HUMAN-CENTRIC SCALE ALONG THE WATER'S EDGE.

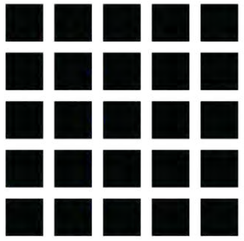
VERTICAL DYNAMICS OF THE SITE



URBAN STRUCTURE & SPATIAL RELATIONS



PRIMARY URBAN GRID



BASE GRID

ORDER, LOGIC, UNIFORMITY

▽

CONTEXTUAL ADAPTATION

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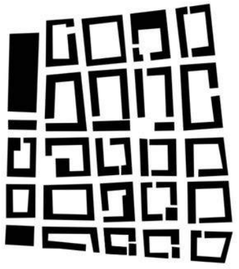
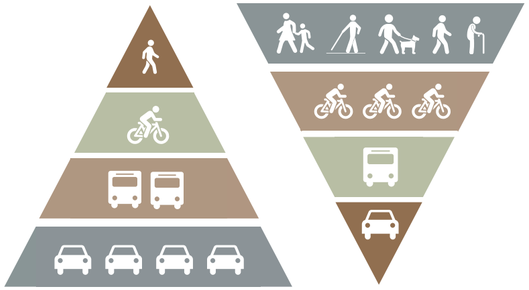


VIBRANT URBANISM

URBAN CONNECTIVITY

THE SPATIAL ORGANIZATION IS DEFINED BY A CLEAR HIERARCHY OF PRIMARY AND SECONDARY AXES THAT NAVIGATE THE FLOW THROUGH THE DISTRICT. OUR STRATEGY INTENTIONALLY SHIFTS AWAY FROM TRADITIONAL CAR-CENTRIC PLANNING TO PRIORITIZE HUMAN-SCALE MOVEMENT AND SOCIAL INTERACTION.

- PRIMARY & SECONDARY AXES: THE STRUCTURAL GRID IS REINFORCED BY MAIN LONGITUDINAL AXES THAT CONNECT THE CITY TO THE WATERFRONT, SUPPORTED BY A NETWORK OF SECONDARY PATHS THAT ENSURE PERMEABILITY AND EASY NAVIGATION ACROSS THE ENTIRE SITE.
- PEDESTRIAN PRIORITY: BY INVERTED THE TRADITIONAL MOBILITY PYRAMID, THE DESIGN PLACES PEDESTRIANS AND CYCLISTS AT THE TOP OF THE HIERARCHY. THIS APPROACH CREATES A SAFE, QUIET, AND VIBRANT ENVIRONMENT WHERE THE CAR IS SECONDARY TO THE QUALITY OF PUBLIC LIFE.
- PEOPLE-CENTRIC SPACES: STRATEGIC NODES MARKED THROUGHOUT THE SITE SERVE AS FOCAL POINTS FOR COMMUNITY GATHERING, ENSURING THAT THE PRIMARY URBAN GRID IS NOT JUST A TRANSIT NETWORK, BUT A LIVING SPACE DESIGNED FOR PEOPLE.



SHIFTING FROM CAR-CENTRIC TO PEOPLE-CENTRIC MOBILITY

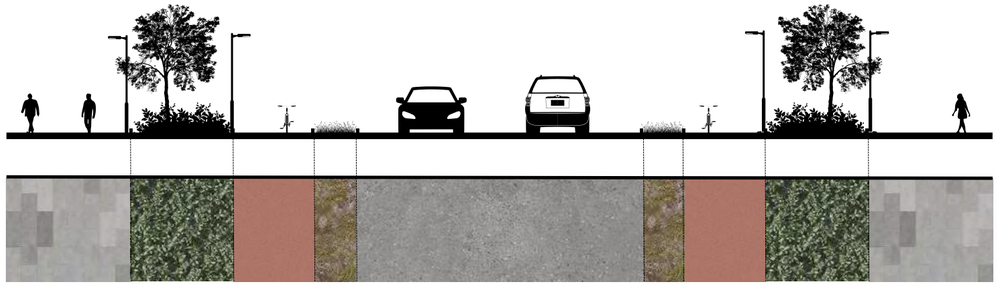
STREET HIERARCHY

MAXIMIZING EFFICIENCY UNDER EXISTING BRIDGE

THIS PROJECT DEMONSTRATES A SMART APPROACH TO URBAN DENSITY BY UTILIZING THE OFTEN-NEGLECTED SPACE BENEATH THE EXISTING BRIDGE FOR A MULTI-LEVEL PARKING FACILITY. BY INTEGRATING THE STRUCTURE DIRECTLY UNDER THE BRIDGE DECK, THE PROJECT GAINS SIGNIFICANT STRATEGIC ADVANTAGES: THE BRIDGE ACTS AS A PERMANENT, WEATHER-RESISTANT ROOF, PROTECTING VEHICLES FROM THE ELEMENTS AND SUBSTANTIALLY REDUCING LONG-TERM MAINTENANCE COSTS. THIS "STRUCTURAL PARASITISM" ALLOWS FOR THE VERTICAL STACKING OF PARKING, WHICH EFFECTIVELY RECLAIMS THE GROUND PLANE FOR GREEN PARKS AND PUBLIC ACTIVITIES THAT WOULD OTHERWISE BE LOST TO SURFACE ASPHALT.

INFRASTRUCTURE EFFICIENCY

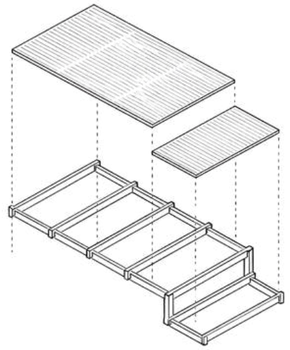
COMPLEMENTING THIS EFFICIENT INFRASTRUCTURE IS A DISCIPLINED STREET HIERARCHY DESIGNED TO PRIORITIZE HUMAN SAFETY AND ENVIRONMENTAL QUALITY. MOVEMENT IS ORGANIZED INTO DISTINCT LAYERS, WHERE PROTECTED PEDESTRIAN AND CYCLING PATHS ARE PHYSICALLY SEPARATED FROM VEHICULAR TRAFFIC BY LUSH GREEN BUFFERS AND MATURE TREES. THIS SYSTEM NOT ONLY ENSURES MAXIMUM SAFETY AND NOISE REDUCTION BUT ALSO CREATES A BARRIER-FREE, INCLUSIVE NETWORK. BY CONCENTRATING TRANSIT AND PARKING WITHIN THE BRIDGE'S FOOTPRINT, THE INNER PARTS OF THE DISTRICT REMAIN PEACEFUL, SECURE, AND ENTIRELY PEDESTRIAN-FRIENDLY, FOSTERING A HIGH QUALITY OF URBAN LIFE.

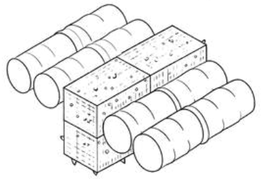



another
waterfront.

FROM INDUSTRY TO PUBLIC LIFE

1 MULTIFUNCTIONAL PLATFORM





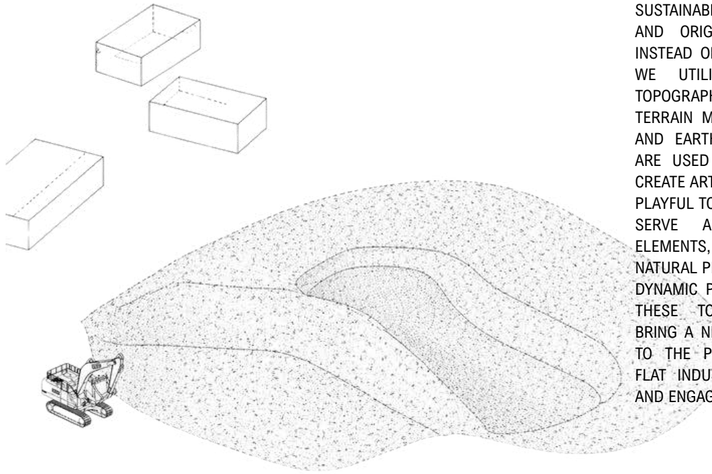
THE PROPOSAL INTRODUCES A NEW PEDESTRIAN BRIDGE AS A KEY ELEMENT OF CONNECTION, LINKING THE SITE WITH THE OPPOSITE RIVERBANK AND INTEGRATING IT INTO THE WIDER URBAN NETWORK. RATHER THAN RELYING ON EXISTING INFRASTRUCTURE, THE DESIGN CREATES A NEW, EFFICIENT AND COST-EFFECTIVE SOLUTION TAILORED TO CURRENT NEEDS. THE BRIDGE IS DESIGNED AS A BARRIER-FREE CONNECTION, ACCESSIBLE FOR ALL USERS, INCLUDING WHEELCHAIR ACCESS THROUGH A COMBINATION OF RAMPS, STAIRS AND ELEVATOR CORES. ALONG ITS PATH, IT EXPANDS INTO VIEWING PLATFORMS, OFFERING PANORAMIC VIEWS OF THE WATERFRONT AND TRANSFORMING MOVEMENT INTO SPATIAL EXPERIENCE. IN ADDITION TO PEDESTRIAN AND CYCLING ACCESS, THE CONNECTION IS SUPPORTED BY A WATER TAXI SYSTEM, STRENGTHENING MOBILITY ACROSS THE RIVER AND ACTIVATING THE WATERFRONT. MORE THAN INFRASTRUCTURE, THE BRIDGE ACTS AS A NEW LANDMARK AND A CENTRAL AXIS OF THE PROJECT. IT CONNECTS THE NEW DEVELOPMENT WITH THE RENOVATED YACHT CLUB, REINFORCING THE RELATIONSHIP BETWEEN PAST AND PRESENT, AND FORMING A CONTINUOUS AND DYNAMIC PUBLIC SPACE.

2 CEMENT SILOS

THE ORIGINAL INDUSTRIAL ELEMENTS ARE REIMAGINED AS A KEY FEATURE OF THE NEW PUBLIC LANDSCAPE. BY DECONSTRUCTING THE FORMER CEMENT SILOS, WE HAVE CREATED UNIQUE, CIRCULAR RELAXATION ZONES WITHIN THE PARK.

ADAPTIVE REUSE: THE VERTICAL STEEL STRUCTURES ARE CUT AND REPURPOSED INTO HUMAN-SCALE SEATING SHELLS AND SHELTERED REST AREAS.
INDUSTRIAL IDENTITY: THIS INTERVENTION PRESERVES THE HISTORICAL DNA OF THE SITE WHILE TRANSFORMING A ONCE-FUNCTIONAL INDUSTRIAL OBJECT INTO A COMFORTABLE SOCIAL SPACE.

3 CONCRETE AND MATERIAL RECYCLING



THE STRATEGY FOCUSES ON THE SUSTAINABLE MANAGEMENT OF EXCAVATED AND ORIGINAL INDUSTRIAL MATERIALS. INSTEAD OF TRANSPORTING DEBRIS AWAY, WE UTILIZE IT TO RESHAPE THE TOPOGRAPHY OF THE SITE.
TERRAIN MODELING: RECYCLED CONCRETE AND EARTH FROM FORMER STRUCTURES ARE USED TO LEVEL THE GROUND AND CREATE ARTIFICIAL MOUNDS.
PLAYFUL TOPOGRAPHY: THESE SMALL HILLS SERVE AS INTERACTIVE LANDSCAPE ELEMENTS, SPECIFICALLY DESIGNED AS NATURAL PLAY AREAS FOR CHILDREN.
DYNAMIC PUBLIC SPACE: BY INTRODUCING THESE TOPOGRAPHIC VARIATIONS, WE BRING A NEW RHYTHM AND PLAYFULNESS TO THE PUBLIC REALM, TRANSFORMING FLAT INDUSTRIAL LAND INTO A DIVERSE AND ENGAGING ENVIRONMENT.

SHADOW RAMPS - SKATEPARK

THE PROJECT MAXIMIZES THE POTENTIAL OF "DEAD SPACES" BY EFFECTIVELY UTILIZING THE AREA BENEATH THE BRIDGE FOR A NEW COMMUNITY SKATEPARK. THIS STRATEGY BREATHES NEW LIFE INTO NEGLECTED URBAN INFRASTRUCTURE WHILE ADHERING TO STRICT CIRCULAR ECONOMY PRINCIPLES.

RECYCLED FOUNDATIONS: ALL CONCRETE RAMPS AND STRUCTURAL ELEMENTS ARE CONSTRUCTED USING RECYCLED AGGREGATE AND MATERIALS SOURCED DIRECTLY FROM THE FORMER CEMENT PLANT THAT ONCE OCCUPIED THIS SITE.

ECO-EFFICIENT TRANSFORMATION: BY REPURPOSING ON-SITE INDUSTRIAL WASTE, WE SIGNIFICANTLY REDUCED THE CARBON FOOTPRINT OF CONSTRUCTION AND ELIMINATED THE NEED FOR TRANSPORTING NEW MATERIALS.

CLIMATE-SHIELDED PUBLIC SPACE: THE BRIDGE STRUCTURE ACTS AS A NATURAL ROOF, PROTECTING THE SKATEPARK FROM DIRECT SUN AND RAIN, CREATING A DURABLE, ALL-WEATHER RECREATIONAL ZONE.

ANOTHER ENERGY: WHAT WAS ONCE A PLACE OF INDUSTRIAL PRODUCTION IS NOW A PLACE OF HUMAN ENERGY, MOVEMENT, AND SOCIAL INTERACTION, PRESERVING THE SITE'S RAW INDUSTRIAL AESTHETIC WHILE SERVING THE CITY'S YOUTH.

3 CONCRETE AND MATERIAL RECYCLING

PLAYFUL ECOLOGY & CIRCULAR LANDSCAPES

THE CENTRAL SPINE OF THE DISTRICT, IS A RHYTHMIC LANDSCAPE DESIGNED TO BALANCE COMMUNITY LIFE WITH ENVIRONMENTAL RESPONSIBILITY. THIS SEGMENT OF THE PRIMARY AXIS TRANSFORMS THE INDUSTRIAL PAST INTO A VIBRANT, SUSTAINABLE FUTURE.

TOPOGRAPHIC RHYTHM: THE ROLLING MOUNDS ARE SCULPTED USING RECYCLED MATERIALS AND CONCRETE AGGREGATES FROM THE SITE'S FORMER CEMENT PLANT. THESE HILLS CREATE A DYNAMIC VISUAL FLOW ALONG THE MAIN AXIS WHILE PROVIDING NATURAL PLAY ELEMENTS FOR CHILDREN.

INTEGRATED RAINWATER MANAGEMENT: THE STRATEGIC DEPRESSION IN THE TERRAIN SERVES AS A PERMEABLE RETENTION BASIN. THIS NATURAL "RAIN GARDEN" COLLECTS AND FILTERS STORMWATER, PREVENTING RUNOFF AND SUPPORTING THE LOCAL MICROCLIMATE.

ADAPTIVE SOCIAL SPACE: BY COMBINING SUSTAINABLE WATER MANAGEMENT WITH PLAYFUL TOPOGRAPHY, THE AREA BECOMES A MULTIFUNCTIONAL ECOLOGICAL CORRIDOR. IT IS A PLACE WHERE INDUSTRIAL HERITAGE MEETS MODERN URBAN NATURE, FOSTERING BOTH BIODIVERSITY AND SOCIAL INTERACTION.

3 CONCRETE AND MATERIAL RECYCLING

CORMORANT OBSERVATION POINT

THE WATERFRONT STRATEGY IS CENTERED ON THE PROTECTION OF THE GREAT CORMORANT (PHALACROCORAX CARBO), A REMARKABLE AQUATIC BIRD KNOWN FOR ITS IMPRESSIVE DIVING SKILLS AND THE CHARACTERISTIC WAY IT SPREADS ITS WINGS TO DRY THEM AFTER A HUNT. THESE BIRDS ARE A VITAL PART OF THE SAVA RIVER'S ECOSYSTEM, AND THEIR PRESENCE IS A KEY INDICATOR OF A HEALTHY RIVER ENVIRONMENT.

PROTECTED BIO-CORRIDOR: TO ENSURE THE CORMORANTS CAN THRIVE, WE HAVE ESTABLISHED A DEDICATED ECOLOGICAL CORRIDOR ALONG THE RIVERBANK. THIS AREA PROVIDES THE NECESSARY PEACE AND HABITAT FOR NESTING AND RESTING.

STRATEGIC PATH DIVERGENCE: A CRITICAL DESIGN MOVE WAS THE INTENTIONAL DIVERSION OF THE MAIN PEDESTRIAN WALKWAY AWAY FROM THE WATER'S EDGE. BY INCREASING THE DISTANCE BETWEEN HUMAN ACTIVITY AND THE SHORELINE, WE MINIMIZE ACOUSTIC AND VISUAL DISTURBANCES, ALLOWING THE BIRDS TO MAINTAIN THEIR NATURAL BEHAVIOR WITHOUT STRESS.

THE OBSERVATION POINT: WHILE THE BIRDS ARE PROTECTED, WE FACILITATE A CONNECTION BETWEEN PEOPLE AND NATURE THROUGH A SPECIALIZED OBSERVATION DECK. THIS ELEVATED VIEWPOINT, FEATURED IN IMAGE_8D6E00.JPG, ALLOWS VISITORS TO ADMIRE THE CORMORANTS IN THEIR NATURAL HABITAT FROM A RESPECTFUL DISTANCE, TURNING CONSERVATION INTO AN EDUCATIONAL AND SERENE EXPERIENCE.

CLIMBING WALL ZONE

A DEDICATED VERTICAL SPACE DESIGNED FOR BOTH BEGINNERS AND EXPERIENCED CLIMBERS. THIS ZONE UTILIZES THE EXISTING INFRASTRUCTURE TO PROVIDE A SAFE AND CHALLENGING OUTDOOR BOULDERING EXPERIENCE.

CYCLING CONNECTION

A SEAMLESS, WELL-MARKED PATH THAT INTEGRATES THE PARK INTO THE CITY'S WIDER CYCLING NETWORK. IT PROVIDES A SAFE AND SCENIC ROUTE FOR COMMUTERS AND RECREATIONAL CYCLISTS ALIKE.

PICNIC ZONE

A GREEN OASIS PERFECT FOR RELAXATION AND SOCIAL GATHERINGS. EQUIPPED WITH COMFORTABLE SEATING AND OPEN LAWNS, IT OFFERS A PEACEFUL SPOT FOR FAMILIES AND FRIENDS TO ENJOY OUTDOOR MEALS.

REFRESHMENT ZONE

A VIBRANT SOCIAL HUB OFFERING A VARIETY OF FOOD AND BEVERAGE OPTIONS. WHETHER YOU'RE LOOKING FOR A QUICK SNACK OR A FULL MEAL, THIS AREA PROVIDES A COMFORTABLE SETTING TO RECHARGE.

UNDER-BRIDGE PARKING

A MULTI-LEVEL PARKING FACILITY THAT EFFICIENTLY UTILIZES THE SPACE UNDER THE BRIDGE, PROVIDING NECESSARY INFRASTRUCTURE WHILE KEEPING THE SURROUNDING GROUND-LEVEL AREAS FREE FOR PUBLIC USE AND ACTIVITIES.

2 CEMENT SILOS

COMMUNITY MARKETPLACE

THIS SCENARIO SHOWCASES THE PLAZA'S PRIMARY ROLE AS A SOCIAL AND COMMERCIAL ENGINE FOR THE NEIGHBORHOOD. BY UTILIZING A MODULAR GRID SYSTEM, THE SPACE SEAMLESSLY HOSTS A VARIETY OF LOCAL VENDORS AND FARMERS' MARKETS. THE LAYOUT IS DESIGNED TO ENCOURAGE PEDESTRIAN FLOW AND SPONTANEOUS SOCIAL ENCOUNTERS, TURNING A SIMPLE TRANSIT AREA INTO A DESTINATION THAT SUPPORTS THE LOCAL ECONOMY AND FOSTERS A STRONG SENSE OF COMMUNITY BELONGING.

FESTIVAL GROUNDS

THE ARCHITECTURAL DESIGN PRIORITIZES THE QUICK TRANSITION FROM A DAILY MARKET TO A HIGH-ENERGY EVENT VENUE. BY CLEARING THE CENTRAL ZONE AND DEPLOYING INTEGRATED TECHNICAL INFRASTRUCTURE, THE PLAZA BECOMES AN OPEN-AIR ARENA CAPABLE OF HOSTING CONCERTS, POLITICAL RALLIES, OR OUTDOOR CINEMA. THIS FLEXIBILITY ENSURES THAT THE URBAN SPACE REMAINS RELEVANT AND HIGHLY UTILIZED REGARDLESS OF THE EVENT'S SCALE, MAXIMIZING THE CITY'S INVESTMENT IN PUBLIC INFRASTRUCTURE.

WINTER ICE RINK

PUBLIC SPACES OFTEN LOSE THEIR APPEAL DURING THE WINTER MONTHS, BUT THIS DESIGN PROACTIVELY ADDRESSES SEASONAL VACANCY. THE PLAZA'S SURFACE IS ENGINEERED TO ACCOMMODATE AN ICE RINK, CREATING A MAGICAL WINTER DESTINATION THAT DRAWS RESIDENTS OUTDOORS EVEN IN FREEZING TEMPERATURES. SURROUNDED BY TEMPORARY HEATED STALLS AND FESTIVE LIGHTING, THE AREA REMAINS A VIBRANT SOCIAL HUB 365 DAYS A YEAR, PROVING THAT THOUGHTFUL URBAN DESIGN CAN OVERCOME THE CHALLENGES OF THE LOCAL CLIMATE.


GO SERBIA!
another
community
SRBIJA
15
SRBIJA
5
DIEGO
3

ZONE A_CEMENT PLANT

OCATED AT THE CONFLUENCE OF THE SAVA AND DANUBE, THIS PROJECT INTEGRATES THREE SPECIALIZED VOLUMES INTO A COHESIVE URBAN LANDSCAPE. THE COMMUNITY CENTER ACTS AS THE SOCIAL CORE, OFFERING VERSATILE SPACES FOR WORK AND GROWTH ALONGSIDE AN INTEGRATED RESTAURANT. ADJACENT TO IT, THE AQUATIC & WELLNESS BUILDING COMBINES A STATE-OF-THE-ART SWIMMING POOL AND GYM WITH AN EXPANSIVE ROOFTOP TERRACE FOR RELAXATION. COMPLETING THE TRIO IS THE SPORT HOTEL, A DEDICATED RESIDENCE FOR ATHLETES WHERE THE RHYTHMIC ARCHITECTURE ENSURES EVERY ROOM ENJOYS A DIRECT, UNOBSTRUCTED VIEW OF THE SAVA RIVER. TOGETHER WITH OUTDOOR COURTS, THE COMPLEX CREATES A SEAMLESS TRANSITION BETWEEN PROFESSIONAL TRAINING, WORK, AND THE NATURAL RIVERFRONT.

- CAFÉ
- MUSEUM OF SERBIAN SPORT
- RESTAURANT
- SWIMMING POOL
- BASKETBALL COURT
- WORKOUT
- TENNIS COURT
- HOTEL

COMUNITTY CENTER

THIS COMMUNITY CENTER IS A FIRST-OF-ITS-KIND MULTIFUNCTIONAL HUB DESIGNED TO BRIDGE THE GAP BETWEEN ELITE SPORTS PERFORMANCE AND PROFESSIONAL LIFE AFTER COMPETITION. THE ARCHITECTURE UTILIZES OPEN, LIGHT-FILLED SPACES AND GREEN TERRACES TO FOSTER A SENSE OF OPENNESS AND COMMUNITY.

MUSEUM OF SERBIAN SPORT: A DEDICATED WING THAT CELEBRATES THE NATION'S RICH ATHLETIC HISTORY, HOUSING LEGENDARY TROPHIES, INTERACTIVE EXHIBITS, AND STORIES OF THE ICONS WHO PUT SERBIA ON THE GLOBAL MAP.

ATHLETE CAREER TRANSITION HUB: A SPECIALIZED ZONE PROVIDING VOCATIONAL TRAINING, MENTORSHIP, AND CAREER COUNSELING SPECIFICALLY FOR PROFESSIONAL ATHLETES LOOKING TO LAUNCH THEIR SECOND CAREERS IN BUSINESS, MANAGEMENT, OR TECH.

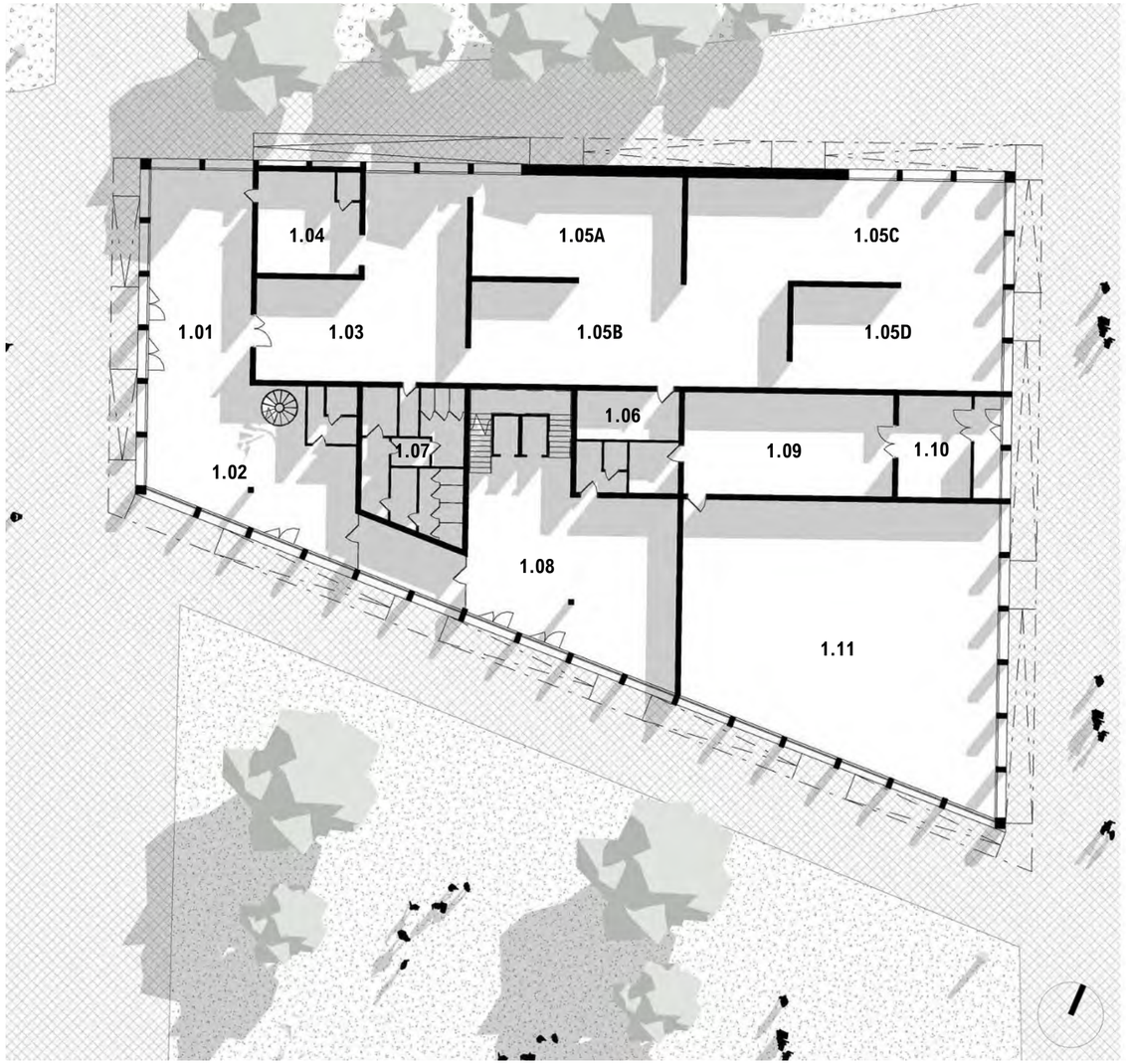
PREMIUM COWORKING SPACES: STATE-OF-THE-ART SHARED OFFICES WHERE RETIRED ATHLETES, SPORTS STARTUPS, AND CREATIVE PROFESSIONALS CAN COLLABORATE IN A HIGH-ENERGY, HIGH-PERFORMANCE ENVIRONMENT.

PUBLIC SOCIAL PLAZA: THE GROUND FLOOR FEATURES A VIBRANT CAFÉ AND OUTDOOR SEATING AREA, MAKING THE CENTER A DESTINATION FOR THE ENTIRE NEIGHBORHOOD TO INTERACT WITH THEIR SPORTING HEROES.

THE CENTER SERVES NOT JUST AS A BUILDING, BUT AS A LIVING MONUMENT TO BELGRADE'S RESILIENCE AND CULTURAL DIVERSITY. BY INTEGRATING HISTORICAL MEMORY (THE MUSEUM) WITH FUTURE OPPORTUNITY (THE COWORKING AND TRANSITION LABS), THE PROJECT ENSURES THAT THE DISCIPLINE AND TALENT OF SERBIAN ATHLETES CONTINUE TO BENEFIT THE COUNTRY LONG AFTER THEY LEAVE THE COURT OR THE FIELD.

TYPICAL FLOOR PLAN

1.01 MUSEUM LOBBY
1.02 CAFÉ
1.03 MUSEUM ENTRANCE
1.04 STORAGE
1.05A SERBIAN OLYMPIC VICTORIES SECTION
1.05B SERBIAN NATIONAL PRIDE SECTION
1.05C HISTORY OF BASKETBALL & TENNIS
1.05D VIRTUAL REALITY EXHIBITION
1.06 STORAGE
1.07 TOILETS
1.08 ENTRANCE & RECEPTION
1.09 KITCHEN
1.10 SERVICE ENTRANCE
1.11 RESTAURANT



CAFÉ

2 - 5 YEARS

50% TO 70%

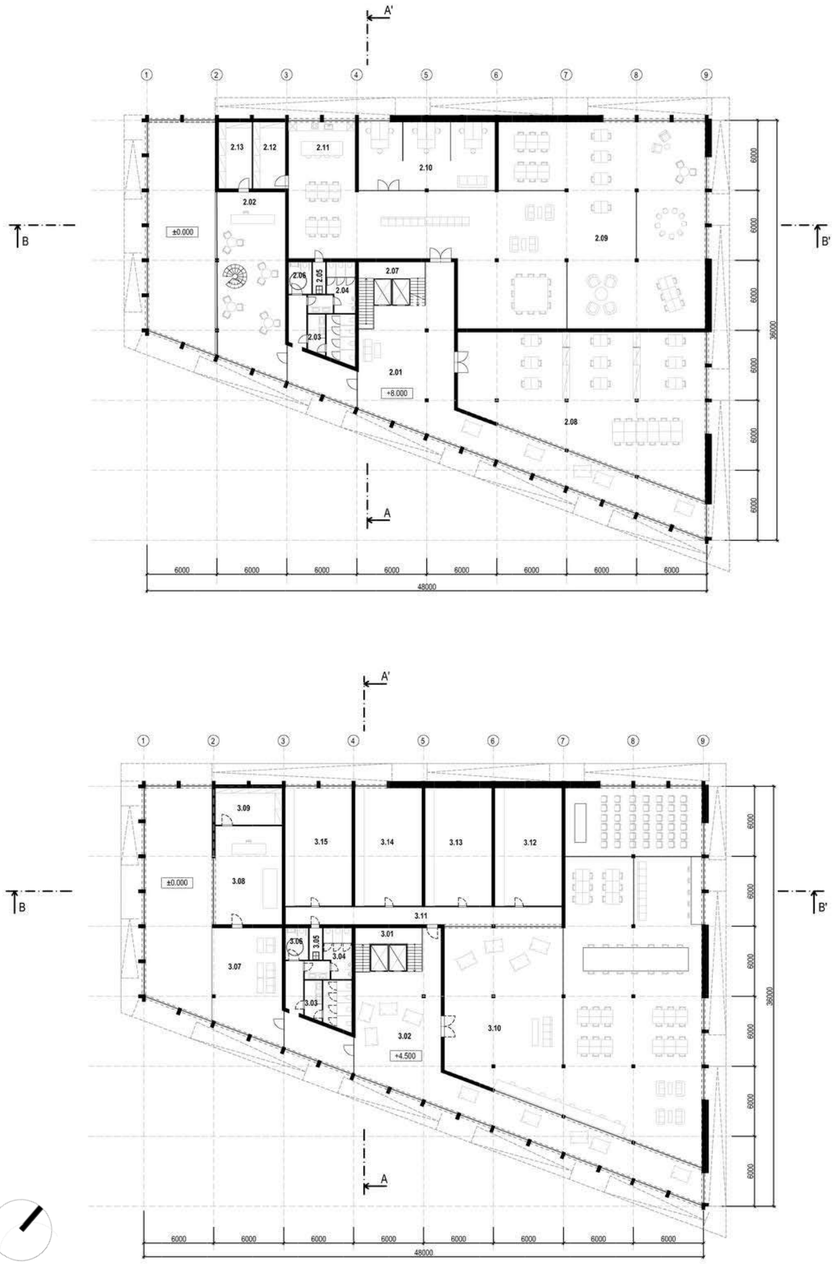
45%

POST-CAREER CRISIS

THE TRANSITION TO CIVILIAN LIFE WAS DIFFICULT TO VERY DIFFICULT

FINANCIAL DIFFICULTIES WITHIN 5 YEARS OF LEAVING THE CAREER LACK OF SUSTAINABLE QUALIFICATIONS

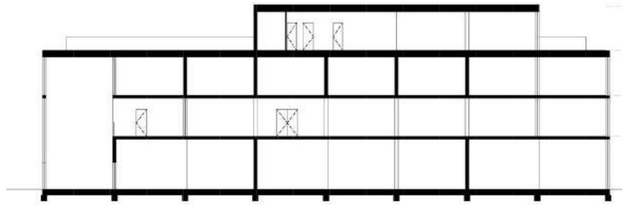
FLOOR PLANS

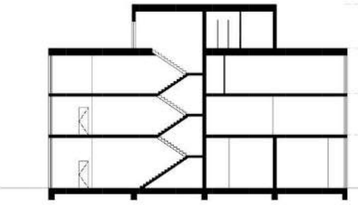


MUSEUM OF SERBIAN SPORT

BELGRADE, THE CAPITAL AND LARGEST CITY OF SERBIA, STANDS AT THE CONFLUENCE OF THE SAVA AND DANUBE RIVERS, FORMING ONE OF THE MOST HISTORICALLY LAYERED URBAN LANDSCAPES IN SOUTHEAST EUROPE. IT IS AMONG THE OLDEST CONTINUOUSLY INHABITED CITIES IN EUROPE, WITH ORIGINS REACHING BACK TO THE VINČA CULTURE OF THE 6TH MILLENNIUM BC. OVER CENTURIES, THE CITY EVOLVED UNDER THE CELTS, ROMANS, BYZANTINES, OTTOMANS, AUSTRO-HUNGARIANS, AND YUGOSLAV MODERNISM, CREATING A UNIQUE ARCHITECTURAL PALIMPSEST. TODAY,

SECTIONS





ROOFTOP BAR

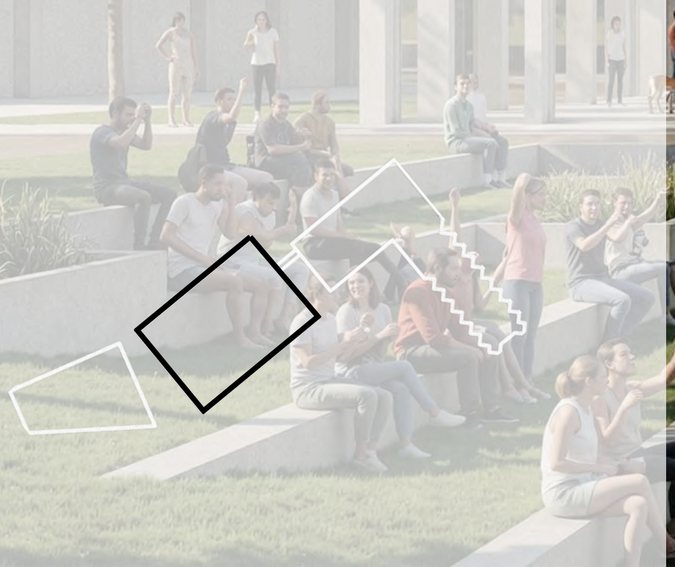
A PREMIUM URBAN ESCAPE ABOVE THE SAVA RIVER
SITUATED IN A LUCRATIVE LOCATION WITH PANORAMIC VIEWS OF THE SAVA RIVER, THIS ROOFTOP BAR OFFERS A SOPHISTICATED ATMOSPHERE THAT BLENDS HIGH-END SOCIAL LIFE WITH SUSTAINABLE DESIGN. THIS ELEVATED DESTINATION SERVES AS A VIBRANT URBAN OASIS, FEATURING AN EXTENSIVE GREEN ROOF SYSTEM THAT INTEGRATES LUSH LANDSCAPING WITH MODERN OUTDOOR SEATING. BY REPURPOSING THE ROOFTOP INTO A FUNCTIONAL PUBLIC SPACE, THE PROJECT PROVIDES A BREATHABLE, PARK-LIKE ENVIRONMENT THAT PRIORITIZES BOTH ENVIRONMENTAL RESPONSIBILITY AND A PREMIUM LIFESTYLE EXPERIENCE ABOVE THE CITY'S ICONIC BRIDGE.

SWIMMING POOL

THE SWIMMING POOL IS A MODERN SPORTS AND RECREATIONAL FACILITY DESIGNED FOR THE SAVA RIVER WATERFRONT IN BELGRADE. THE PROJECT RESPONDS TO SERBIA'S STRONG SPORTING TRADITION AND THE NEED FOR HIGH-QUALITY FACILITIES FOR BOTH PROFESSIONAL ATHLETES AND THE GENERAL PUBLIC. THE GOAL OF THE DESIGN IS TO CREATE AN OPEN SPACE WHERE SPORT, RECOVERY, AND DAILY URBAN LIFE MEET IN DIRECT CONTACT WITH THE RIVER.

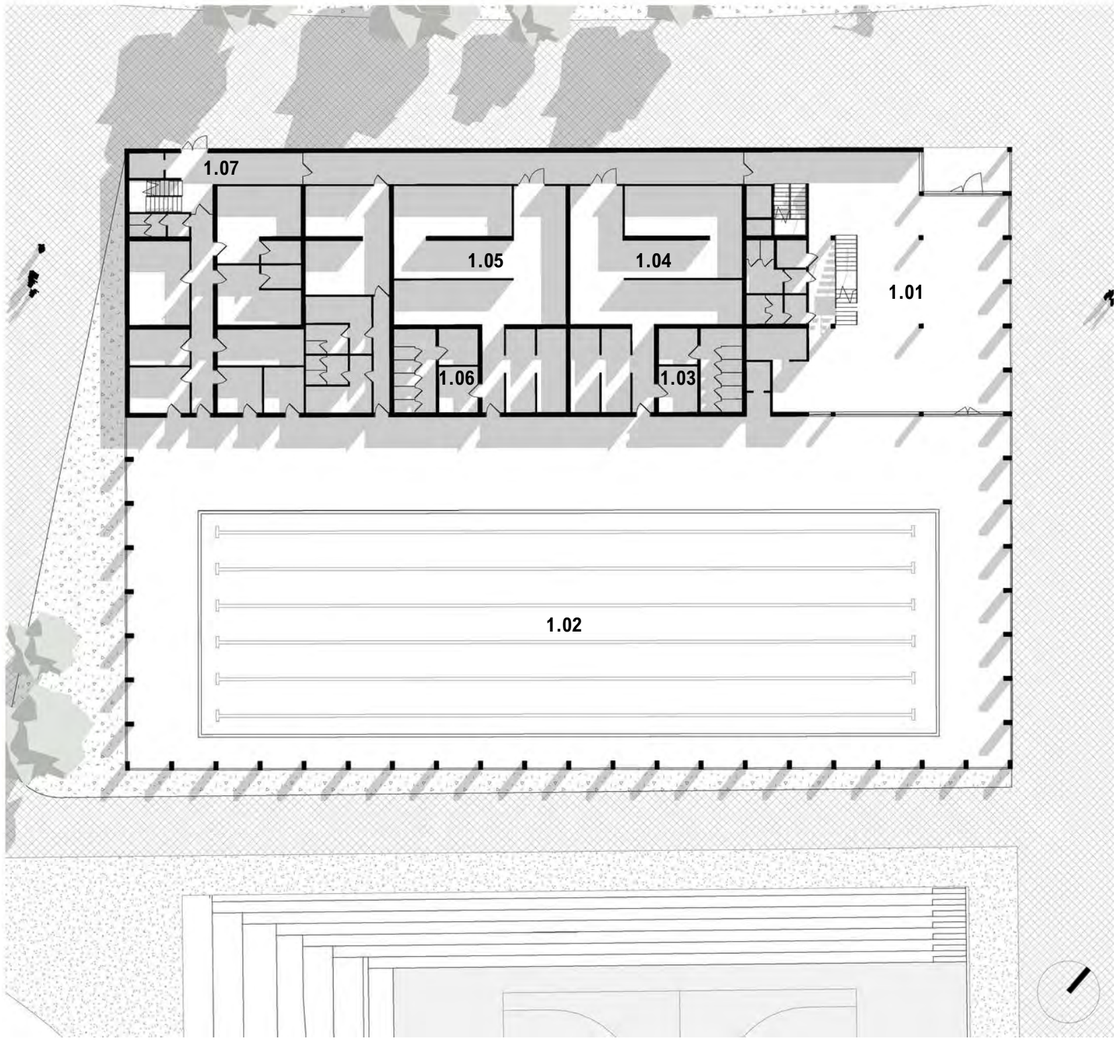
THE CORE OF THE BUILDING IS A 50-METER OLYMPIC SWIMMING POOL, COMPLEMENTED BY A FITNESS CENTER, WELLNESS AREA, AND A ROOFTOP OUTDOOR POOL WITH VIEWS OF THE RIVER. THE FACILITY IS PART OF A VIBRANT SPORTING ENVIRONMENT, FURTHER ENHANCED BY PUBLIC SPACES DESIGNED FOR SOCIALIZING, RELAXATION, AND MOVEMENT.

THE ARCHITECTURE DRAWS INSPIRATION FROM THE MODERNIST TRADITION OF BELGRADE'S ARCHITECTURAL HISTORY, INCORPORATING ELEMENTS OF BRUTALISM. A SIMPLE REINFORCED CONCRETE MASS ORIENTED TOWARDS THE RIVER ESTABLISHES A POWERFUL RELATIONSHIP BETWEEN THE INTERIOR AND THE LANDSCAPE. THE RHYTHM OF THE COLUMNS, LARGE-FORMAT GLAZING, AND TERRACES FACING THE WATER CONNECT THE SPORTS SPACE WITH THE RIVERINE ENVIRONMENT, BRINGING LIGHT, EXPANSIVE VIEWS, AND A CONNECTION TO NATURE INTO THE INTERIOR.



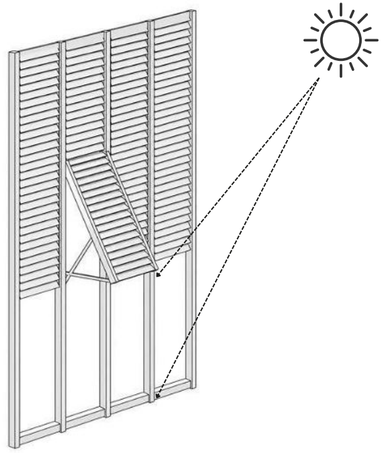
TYPICAL FLOOR PLAN

1.01 RECEPTION LOBBY
1.02 SWIMMING POOL (50 M)
1.03 MEN'S TOILETS
1.04 MEN'S SHOWERS
1.05 WOMEN'S SHOWERS
1.06 WOMEN'S WC
1.07 STAFF & SERVICE AREA



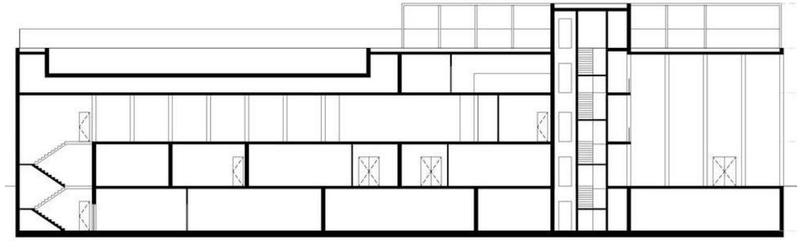
OLYMPIC POOL

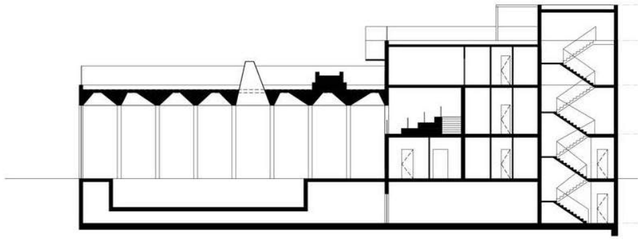
SHIELDING SYSTEM



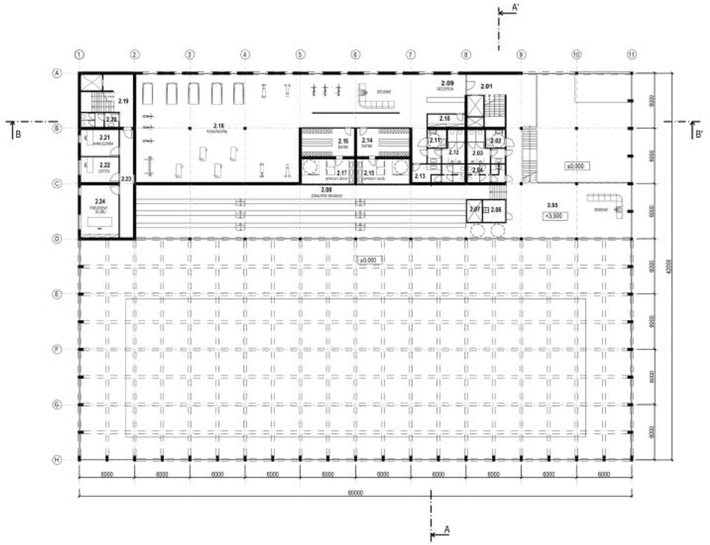
THE FACADE FEATURES AN INTELLIGENT SHIELDING SYSTEM DESIGNED TO OPTIMIZE NATURAL LIGHT WHILE PREVENTING EXCESSIVE SOLAR HEAT GAIN. BY UTILIZING ADJUSTABLE WOODEN LOUVERS, THE BUILDING CAN DYNAMICALLY RESPOND TO THE SUN'S POSITION THROUGHOUT THE DAY, ENSURING A COMFORTABLE INTERNAL TEMPERATURE AND REDUCING THE NEED FOR ARTIFICIAL COOLING. THIS ADAPTIVE APPROACH NOT ONLY ENHANCES ENERGY EFFICIENCY BUT ALSO PROVIDES A VERSATILE LAYER OF PRIVACY FOR THE SWIMMING POOL AREA, ALLOWING USERS TO ENJOY THE SPACE IN A SECLUDED YET SUN-DRENCHED ENVIRONMENT. THE NATURAL TEXTURE OF THE LOUVERS ADDS A WARM, ORGANIC AESTHETIC TO THE FACADE, PERFECTLY BALANCING MODERN ENGINEERING WITH ARCHITECTURAL ELEGANCE.

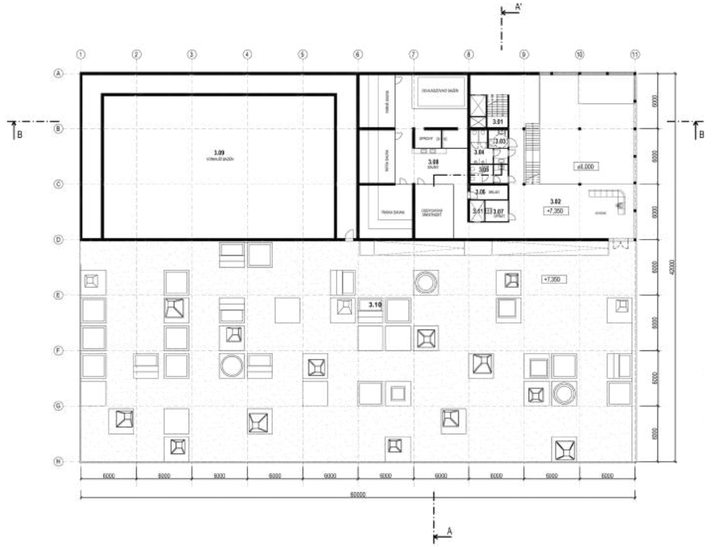
SECTION





FLOOR PLANS



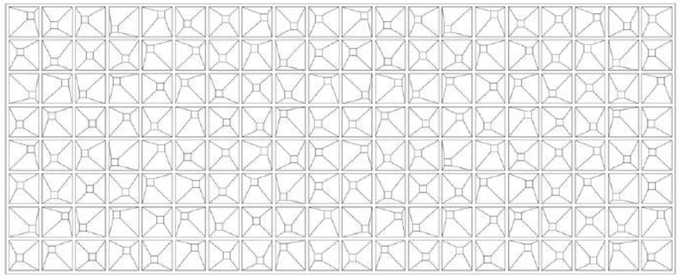


SUN IN ARCHITECTURE

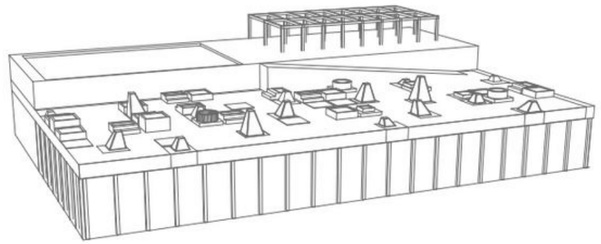
THIS INNOVATIVE ROOFTOP IS DEFINED BY A MODULAR COFFERED SYSTEM THAT TRANSFORMS THE BUILDING'S "FIFTH FACADE" INTO A DYNAMIC PUBLIC LANDSCAPE. THE RHYTHMIC GRID OF THE STRUCTURE IS NOT MERELY AESTHETIC; IT IS A FUNCTIONAL TOPOGRAPHY WHERE INDIVIDUAL MODULES ARE STRATEGICALLY EXTRUDED TO CREATE A CAPTIVATING INTERPLAY OF LIGHT AND SHADOW THROUGHOUT THE DAY. THESE RAISED ELEMENTS SERVE A TRIPLE PURPOSE: ACTING AS SCULPTURAL SKYLIGHTS THAT FUNNEL NATURAL LIGHT INTO THE SPACES BELOW, INTEGRATED PLANTERS THAT SUPPORT LUSH GREENERY, AND ERGONOMIC SEATING AREAS DESIGNED FOR SOCIAL INTERACTION.

BY BLENDING TECHNICAL ENGINEERING WITH HUMAN-CENTRIC DESIGN, THE ROOF PROVIDES A PEACEFUL SANCTUARY FOR GATHERING AND RELAXATION. THE VARYING HEIGHTS OF THE MODULES CREATE A UNIQUE MICRO-ENVIRONMENT THAT OFFERS BOTH WIND PROTECTION AND INTIMATE NICHES, ALL WHILE MAINTAINING EXPANSIVE VISTAS OF THE SURROUNDING CITY AND RIVER. IT IS A SPACE THAT FOSTERS COMMUNITY AND TRANQUILITY, TURNING A FUNCTIONAL ROOF INTO A VIBRANT ARCHITECTURAL PARK.

ROOF PLAN



AXONOMETRY



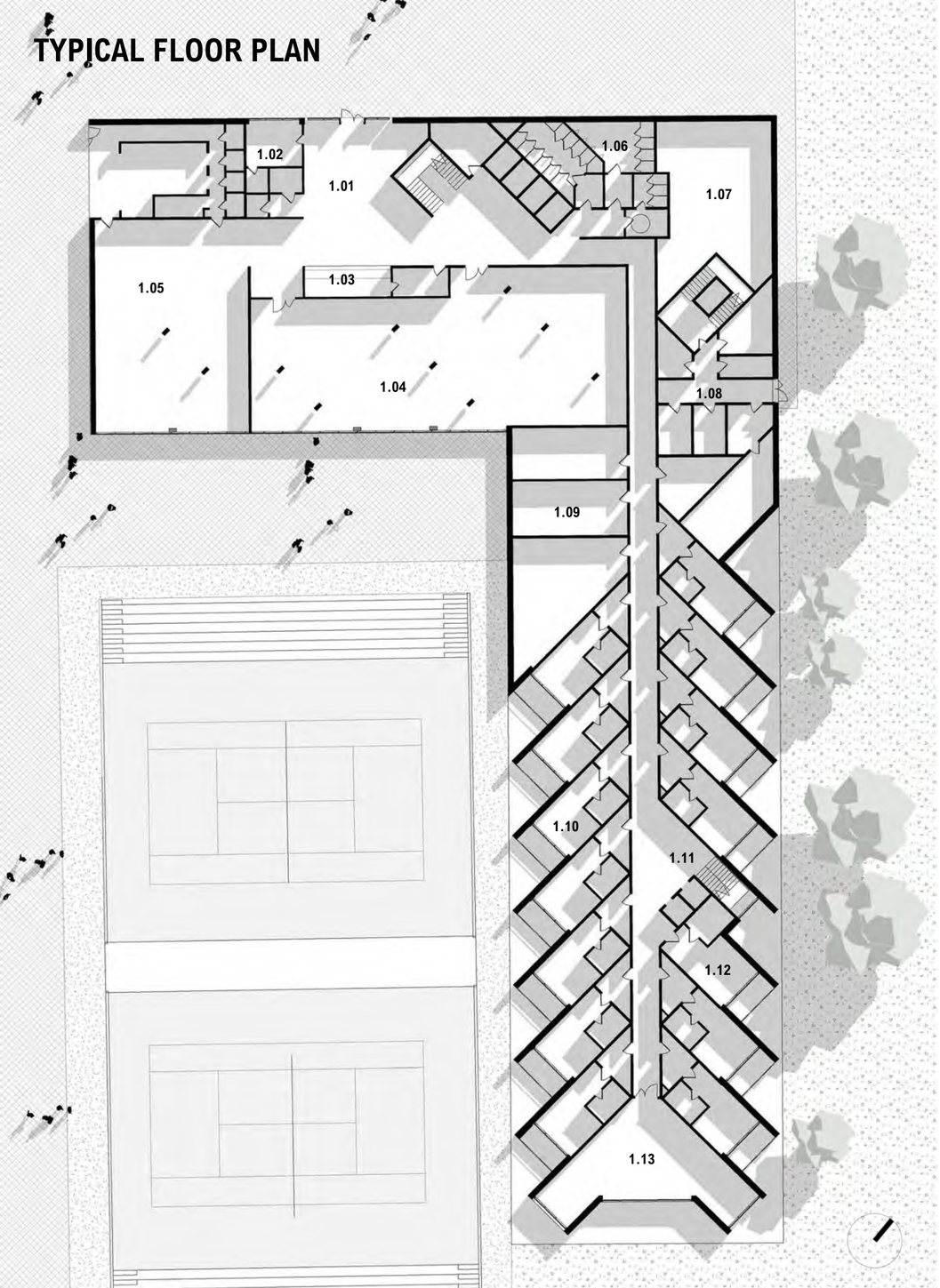

I REMEMBER HOW THIS PLACE
WAS STILL RUINED BY INDUSTRY.
another
everyday.

HOTEL FOR ATHLETES

THIS SPECIALIZED HOTEL IS CONCEIVED AS A PREMIER SANCTUARY FOR ATHLETES, BALANCING HIGH-STANDARD ACCOMMODATION WITH STATE-OF-THE-ART RECOVERY FACILITIES. THE ARCHITECTURAL SOUL OF THE BUILDING LIES IN ITS SOPHISTICATED MODULAR DESIGN; EACH LIVING UNIT IS PRECISELY ANGLED AND STAGGERED TO ENSURE EVERY GUEST ENJOYS AN UNOBSTRUCTED, PRIVATE VIEW OF THE RIVER. THIS RHYTHMIC ORIENTATION NOT ONLY MAXIMIZES NATURAL LIGHT BUT ALSO FOSTERS A CALM, SERENE ENVIRONMENT ESSENTIAL FOR MENTAL AND PHYSICAL REGENERATION BETWEEN TRAINING SESSIONS.

THE COMPLEX FUNCTIONS AS A HOLISTIC ECOSYSTEM, SEAMLESSLY INTEGRATING PRIVATE LIVING QUARTERS WITH PUBLIC SPORTS GROUNDS AND SOCIAL TERRACES. WHILE THE UPPER "CELLS" PROVIDE A QUIET RETREAT, THE GROUND LEVEL OPENS DIRECTLY ONTO ACTIVE ZONES, CREATING A DYNAMIC CONNECTION BETWEEN REST AND MOVEMENT. BY PRIORITIZING BOTH SPATIAL PRIVACY AND A DIRECT CONNECTION TO THE SURROUNDING LANDSCAPE, THE HOTEL OFFERS A LUCRATIVE AND INSPIRING ATMOSPHERE TAILORED TO THE UNIQUE NEEDS OF MODERN ATHLETES.

TYPICAL FLOOR PLAN

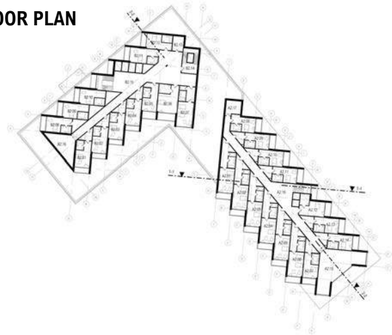


FLOOR PLANS

THE NORTHWESTERN PART OF THE FLOOR FEATURES 1.01 ENTRANCE AND FOYER, PROVIDING DIRECT ACCESS TO 1.03 RECEPTION, SUPPORTED BY 1.02 ADMINISTRATION. LOCATED BEHIND THE RECEPTION IS 1.04 MULTIFUNCTIONAL STRATEGIC ROOM, DESIGNED FOR FLEXIBLE USES SUCH AS MEETINGS OR PHYSIOTHERAPY. THE SOUTHWESTERN WING HOUSES 1.05 KITCHEN AND DINING ROOM, WHICH IS ORIENTED TOWARD THE WATER WITH LARGE GLAZED OPENINGS.
THE NORTHERN SIDE CONCENTRATES 1.06 SANITARY FACILITIES AND 1.07 TECHNICAL ROOM. IN THE NORTHEASTERN BLOCK, 1.08 STAFF SERVICE AREA INCLUDES CHANGING ROOMS AND A DEDICATED SERVICE LIFT AND STAIRCASE TO SEPARATE STAFF OPERATIONS FROM GUEST MOVEMENT. OPPOSITE THIS ZONE IS 1.09 WORKROOM AND LINEN STORAGE.
THE MAIN ACCOMMODATION TRACT ALONG THE SOUTHEASTERN SIDE CONSISTS OF 1.10 SINGLE ROOMS. VERTICAL GUEST CIRCULATION IS PROVIDED BY 1.11 MAIN STAIRCASE AND LIFTS, ADJACENT TO 1.12 ACCESSIBLE ROOM. THE PROGRAM CONCLUDES WITH 1.13 RENTABLE CONFERENCE ROOM AT THE END OF THE SOUTHWESTERN WING.

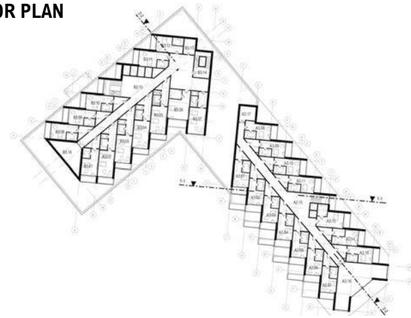
THE SECOND FLOOR IS DIVIDED INTO A NORTH-WESTERN AND A SOUTH-EASTERN SECTION, BOTH CONTAINING SINGLE ROOMS, DOUBLE ROOMS, AND ACCESSIBLE ROOMS FOR GUESTS WITH REDUCED MOBILITY. THESE TWO WINGS FORM THE MAIN ACCOMMODATION LEVEL OF THE BUILDING. IN THE NORTH-WESTERN SECTION, TWO SEPARATE STAIRCASES ARE PROVIDED: ONE DEDICATED TO STAFF AND ONE RESERVED FOR ACCOMMODATED GUESTS, ENSURING FULLY SEPARATED VERTICAL CIRCULATION AND OPERATIONAL INDEPENDENCE. THE SOUTH-EASTERN SECTION CONTAINS A SINGLE STAIRCASE COMBINED WITH LIFTS, FORMING THE PRIMARY VERTICAL COMMUNICATION CORE FOR GUESTS AND PROVIDING BARRIER-FREE ACCESS THROUGHOUT THE FLOOR.

2ND FLOOR – FLOOR PLAN



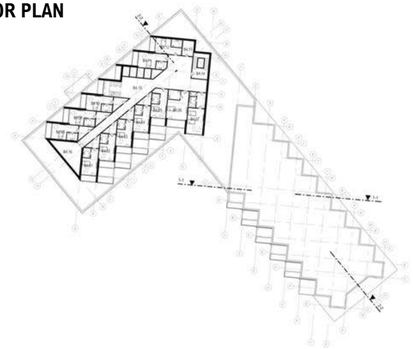
THE THIRD FLOOR FOLLOWS THE SAME ORGANIZATIONAL LOGIC AS THE LEVEL BELOW, BUT ITS LAYOUT BECOMES VISUALLY MORE EXPRESSIVE THANKS TO THE DISTINCTIVE V-SHAPED GEOMETRY OF THE ENTIRE BUILDING. THIS FLOOR PLAN HIGHLIGHTS THE DYNAMIC FORM OF THE OBJECT, WHERE TWO ACCOMMODATION WINGS OPEN OUTWARD AND CREATE A CLEAR SPATIAL ORIENTATION ALONG BOTH CORRIDORS. THE GEOMETRY NOT ONLY DEFINES THE ARCHITECTURAL CHARACTER OF THE BUILDING BUT ALSO ENHANCES DAYLIGHT ACCESS AND VIEWS FROM THE ROOMS.

3RD FLOOR – FLOOR PLAN

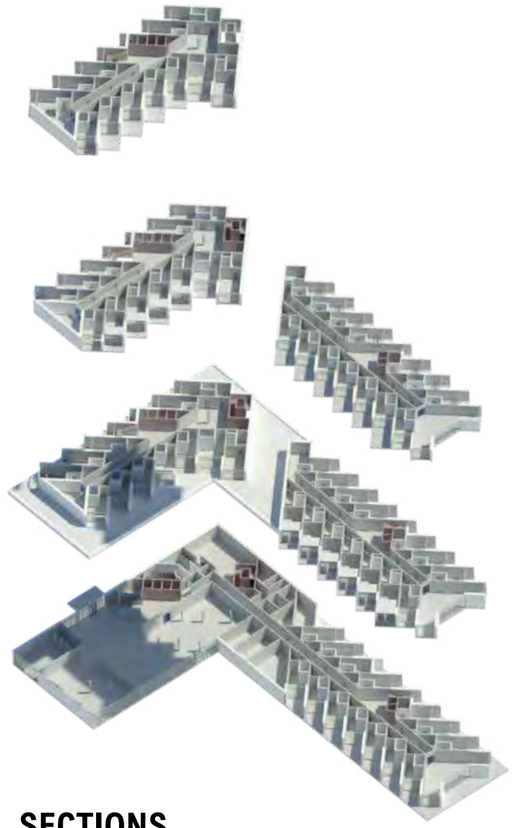


THE FOURTH FLOOR IS DESIGNED AS A RECESSED LEVEL, WHERE ONLY THE NORTH-WESTERN WING OF THE BUILDING CONTINUES UPWARD. THIS REDUCED FOOTPRINT EMPHASIZES THE DISTINCTIVE V-SHAPED GEOMETRY OF THE STRUCTURE AND CREATES A LIGHTER ARCHITECTURAL EXPRESSION TOWARD THE UPPER PART OF THE BUILDING. THE LAYOUT MAINTAINS THE ACCOMMODATION FUNCTION IN A MORE COMPACT FORM DUE TO THE STEPPED-BACK MASSING.
ON THE REMAINING ROOF AREAS, A GREEN ROOF SYSTEM IS INSTALLED, COMPLEMENTED BY PHOTOVOLTAIC PANELS, PROVIDING BOTH ECOLOGICAL AND ENERGY-PRODUCING FUNCTIONS FOR THE BUILDING.

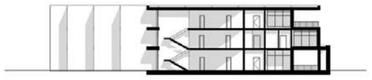
4TH FLOOR – FLOOR PLAN



CONSTRUCTION DIAGRAM



SECTIONS



GREEN ROOF & SUSTAINABILITY

THE FINAL LAYER OF THE BUILDING FEATURES AN EXTENSIVE GREEN ROOF THAT ACTS AS NATURAL THERMAL INSULATION AND A RAINWATER RETENTION SYSTEM. THE SURFACE IS OPTIMIZED FOR THE INTEGRATION OF SOLAR PANELS, PROVIDING THE PROJECT WITH A HIGH DEGREE OF ENERGY INDEPENDENCE WHILE SIGNIFICANTLY REDUCING THE BUILDING'S OVERALL CARBON FOOTPRINT.

MODULAR CLT SYSTEM

THE CORE OF THE PROJECT CONSISTS OF AN ADVANCED CLT MODULAR SYSTEM DEDICATED TO ATHLETE HOUSING. UTILIZING CROSS-LAMINATED TIMBER (CLT) FOR ITS EXCEPTIONAL CARBON-SEQUESTERING PROPERTIES AND NATURAL AESTHETIC, THE LIVING QUARTERS ARE COMPOSED OF COMPACT, SELF-SUPPORTING MODULES WITH A STANDARDIZED FOOTPRINT OF 7M X 5M. THESE PREFABRICATED UNITS ARE SPECIFICALLY DIMENSIONED TO PROVIDE OPTIMAL LIVING CONDITIONS FOR ATHLETES, OFFERING A HEALTHY INDOOR CLIMATE AND HIGH ACOUSTIC PERFORMANCE. THE MODULAR NATURE OF THESE CLT BOXES ALLOWS FOR RAPID ON-SITE ASSEMBLY AND A "PLUG-AND-PLAY" EXPANSION, WHERE ADDITIONAL HOUSING BLOCKS CAN BE INTEGRATED TO INCREASE CAPACITY AS NEEDED.

MONOLITHIC BASE

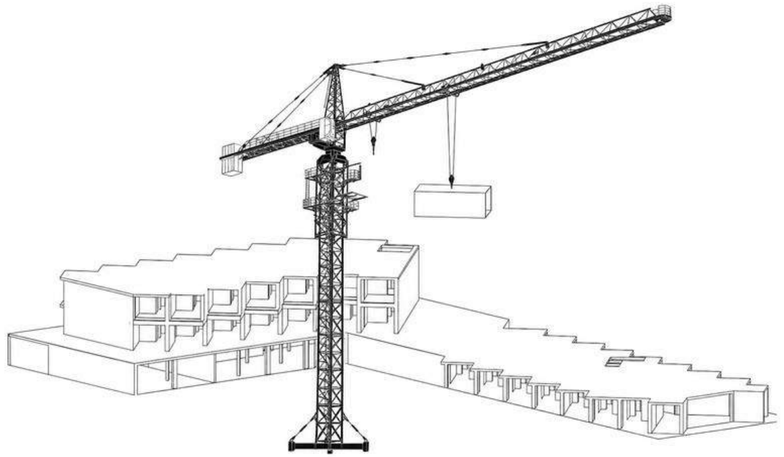
THE ENTIRE STRUCTURE IS ANCHORED BY A ROBUST MONOLITHIC SYSTEM CAST DIRECTLY ON-SITE. THE FOUNDATION IS ENGINEERED USING DEEP-DRILLED PILES TO ENSURE MAXIMUM STABILITY EVEN IN CHALLENGING SOIL CONDITIONS. THESE PILES SUPPORT A HEAVY-DUTY REINFORCED CONCRETE FOUNDATION SLAB, WHICH SERVES AS THE PRIMARY LOAD-BEARING PLATFORM FOR THE BUILDING. THIS "PLINTH" NOT ONLY PROVIDES A RIGID BASE FOR THE MODULAR CLT BLOCKS ABOVE BUT ALSO HOUSES THE CORE TECHNICAL INFRASTRUCTURE, ENSURING LONG-TERM DURABILITY AND STRUCTURAL INTEGRITY OF THE ENTIRE COMPLEX.

MODULARITY

THE BUILDING IS DESIGNED AS A MODULAR SYSTEM THAT ENSURES EFFICIENT CONSTRUCTION, FLEXIBILITY, AND LONG-TERM ADAPTABILITY. PREFABRICATED UNITS ENABLE FASTER ASSEMBLY, REDUCE WASTE, AND IMPROVE PRECISION.

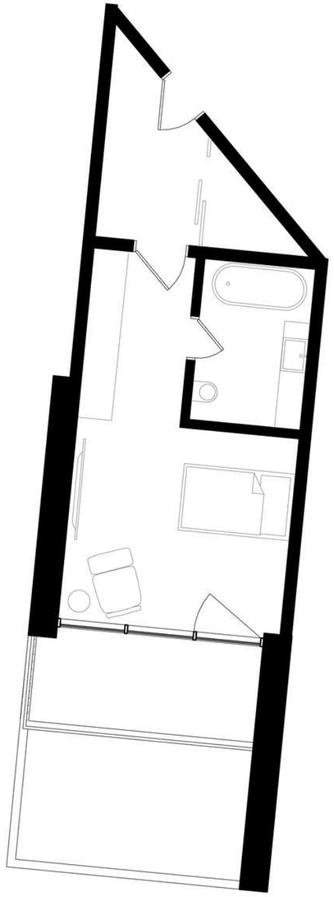
MODULARITY ALLOWS SPACES TO BE EASILY RECONFIGURED TO MEET CHANGING NEEDS, FROM ACCOMMODATION TO SHARED AREAS, SUPPORTING DIFFERENT USERS OVER TIME. THE SYSTEM ALSO ENABLES GRADUAL EXPANSION BY ADDING NEW MODULES WITHOUT DISRUPTING THE EXISTING STRUCTURE.

OVERALL, THIS APPROACH CREATES A SUSTAINABLE, EFFICIENT, AND ADAPTABLE ARCHITECTURE READY FOR FUTURE DEVELOPMENT.



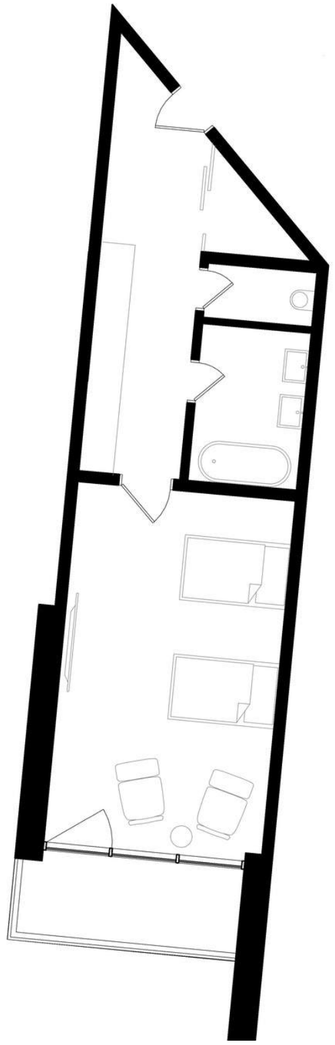
I. MODULE

SINGLE ROOM



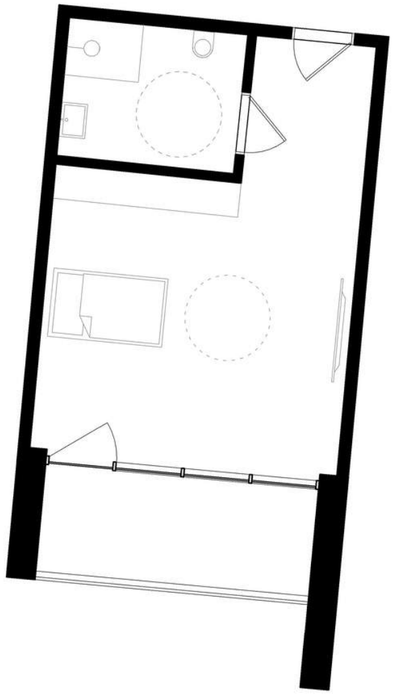
II. MODULE

DOUBLE ROOM



III. MODULE

ACCESSIBLE ROOM



I. MODUL

A COZY SPACE DESIGNED FOR MAXIMUM PRIVACY AND INDIVIDUAL EFFICIENCY.

- LAYOUT: A COMPACT SOLUTION THAT CLEVERLY SEPARATES THE SLEEPING AREA FROM THE STUDY NOOK.
- FEATURES: INCLUDES A PRIVATE BATHROOM AND INTEGRATED STORAGE TO MAXIMIZE USABLE FLOOR SPACE.
- LIGHTING: THE ANGLED FACADE ALLOWS FOR OPTIMAL NATURAL LIGHT PENETRATION DIRECTLY ONTO THE DESK AREA.

II. MODUL

A MORE SPACIOUS ALTERNATIVE DESIGNED FOR THE COMFORTABLE CO-LIVING OF TWO PEOPLE.

- LAYOUT: AN EXTENDED MODULE PROVIDING ENOUGH SPACE FOR TWO SEPARATE BEDS AND AN ENLARGED SHARED ZONE.
- FEATURES: EQUIPPED WITH A FULL BATHROOM AND A DOUBLED STORAGE SYSTEM FOR RESIDENTS' PERSONAL BELONGINGS.
- BENEFIT: THE ERGONOMIC FURNITURE ARRANGEMENT ENSURES SMOOTH MOVEMENT WITHIN THE ROOM EVEN WHEN FULLY OCCUPIED.

III. MODUL

A SPECIALLY ADAPTED MODULE WITH AN EMPHASIS ON ACCESSIBILITY AND FREEDOM OF MOVEMENT.

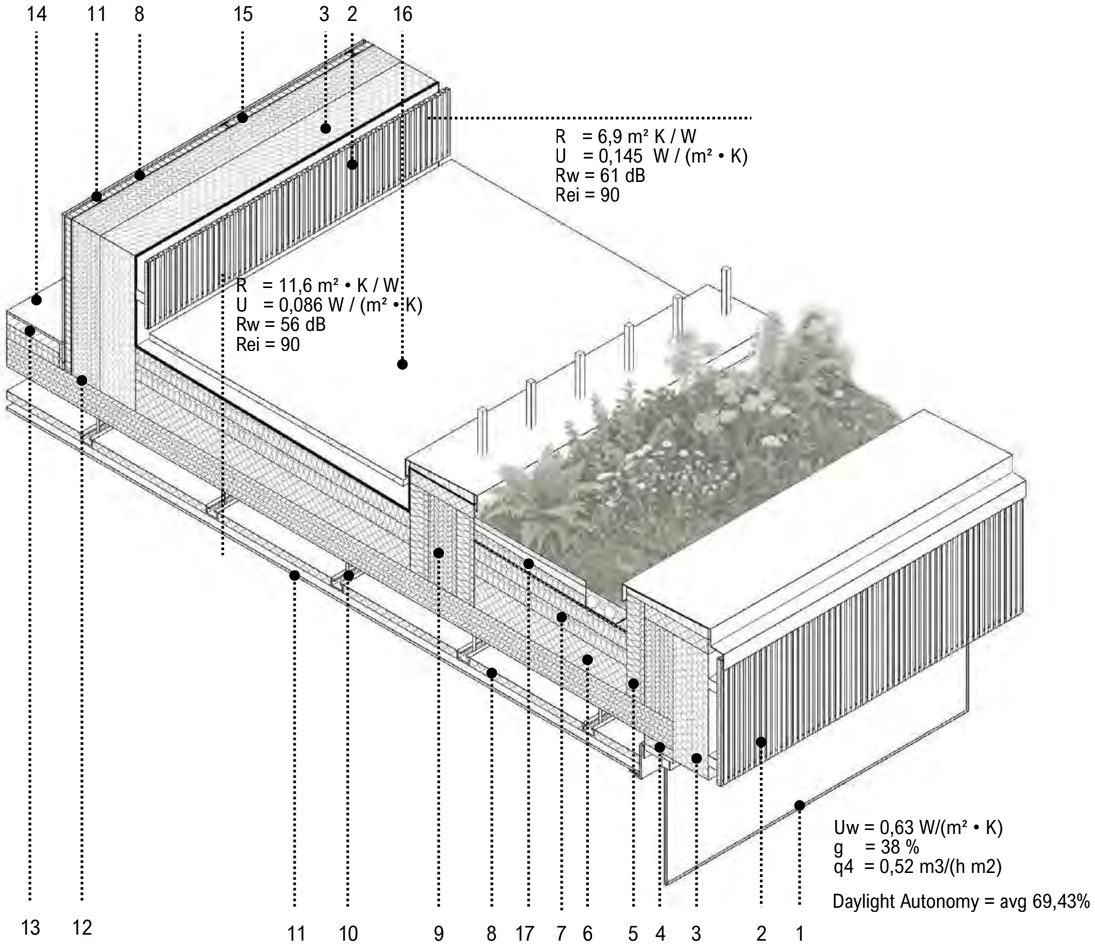
- LAYOUT: FEATURES A WIDER, OPEN FLOOR PLAN THAT ALLOWS FOR A COMFORTABLE WHEELCHAIR TURNING RADIUS.
- FEATURES: THE BATHROOM IS DESIGNED FOR SPECIFIC NEEDS—BARRIER-FREE ACCESS AND SUFFICIENT ROOM FOR MANEUVERING.

HOTEL ROOMS

MAXIMUM CONNECTION WITH THE RIVER LANDSCAPE.

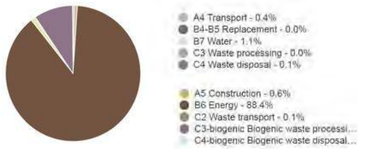
- STRATEGIC POSITIONING: EACH RESIDENTIAL UNIT IS CAREFULLY ROTATED TO PRIORITIZE DIRECT VIEWS OF THE SAVA RIVER AND ITS CONFLUENCE WITH THE DANUBE.
- FLOOR-TO-CEILING GLAZING: LARGE PANORAMIC WINDOWS BLUR THE LINE BETWEEN THE INTERIOR AND THE SURROUNDING NATURAL LANDSCAPE, BRINGING THE RIVER ATMOSPHERE DIRECTLY INTO THE LIVING SPACE.
- PRIVATE BALCONIES: EVERY ROOM FEATURES A PRIVATE OUTDOOR AREA, ALLOWING RESIDENTS TO ENJOY THE RIVERSIDE BREEZE AND VIEWS OF THE HISTORIC KALEMEGDAN FORTRESS.
- NATURAL LIGHT: THE SPECIFIC ROTATION OF THE MODULES ENSURES THAT THE INTERIOR IS FLOODED WITH NATURAL DAYLIGHT THROUGHOUT THE DAY, ENHANCING THE WELL-BEING OF THE INHABITANTS.

DETAIL TERRACE - HOTEL

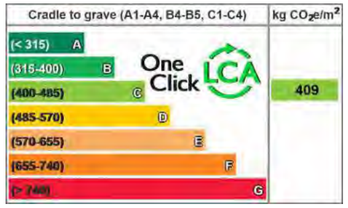


SAVE-E REPORT - HOTEL

ONE-CLICK LCA REPORT - HOTEL



GLOBAL WARMING POTENTIAL TOTAL kg CO_{2e}
LIFE-CYCLE STAGES



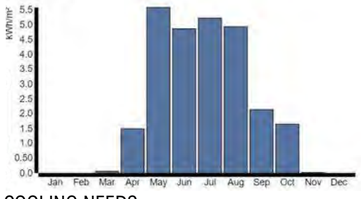
SAINT GOBAIN MATERIALS USED

1 WINDOW CLIMATOP COOL-LITE® SKN 176, SOLAR FACTOR G= 38%, THERMAL TRANSMITTANCE UG= 0.63 W/M²K, EQUIPPED WITH 4BIRD®, BIRD-COLLISION PROTECTION

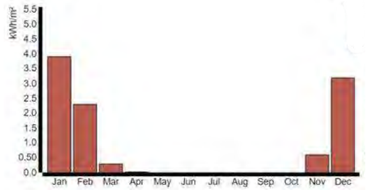
3 ISOVER SUPER-VENT PLUS T= 180 MM, THERMAL RESISTANCE R= 5,8 M²·K/W, REACTION TO FIRE CLASS A2-D1, S0
4 PURENOTHERM T= 180 MM, THERMAL RESISTANCE R= 5,8 M²·K/W, REACTION TO FIRE CLASS E
5 ISOVER TF PROFI 14 T= 140 MM, THERMAL RESISTANCE R= 3,65 M²·K/W, REACTION TO FIRE CLASS A1
6 PUREN GDS TAPERED INSULATION T= 200 MM THERMAL RESISTANCE R= 5,2 M²·K/W, REACTION TO FIRE CLASS E
7 PUREN GDS 2XT= 80 MM THERMAL RESISTANCE R= 5,2 M²·K/W, REACTION TO FIRE CLASS E
8 ISOVER AKU 4 INSULATION BOARDS T=40 MM, THERMAL RESISTANCE R= 1,1 M²·K/W, BULK DENSITY > 40 KG/M³
13 ISOVER N 4 IMPACT SOUND INSULATION LAYER T = 40 MM, THERMAL RESISTANCE R= 1,10 M²·K/W, REACTION TO FIRE CLASS A1
17 ISOVER FLORA WATER-RETENTION BOARD

10 MA ACOUSTIC CEILING SUBSTRUCTURE WITH SUSPENSION SYSTEM
11 ACTIV'AIR® MA AA (DF) BLUE ACOUSTIC PLASTERBOARD, T= 12,5 MM, REACTION TO FIRE CLASS A2-S1, D0
15 ACOUSTIC WALL LINING SUBSTRUCTURE

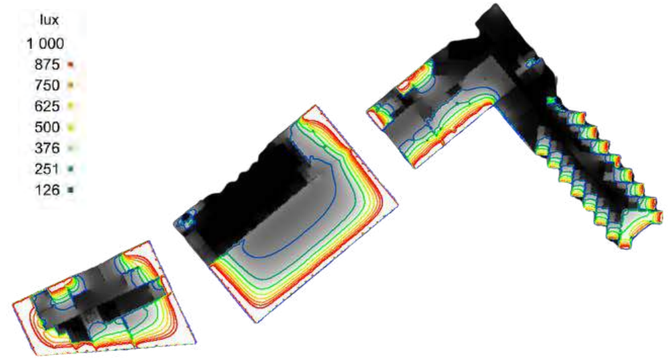
2 TIMBER CLADDING INSTALLED ON A TIMBER BATTEN SUBSTRUCTURE
9 ATTIC WALL FORMED BY A CLT PANEL, T= 140 MM
12 CLT CEILING PANEL, T= 140 MM
14 LVT – LUXURY VINYL TILE
16 RAISED FLOOR ON ADJUSTABLE PEDESTALS



COOLING NEEDS

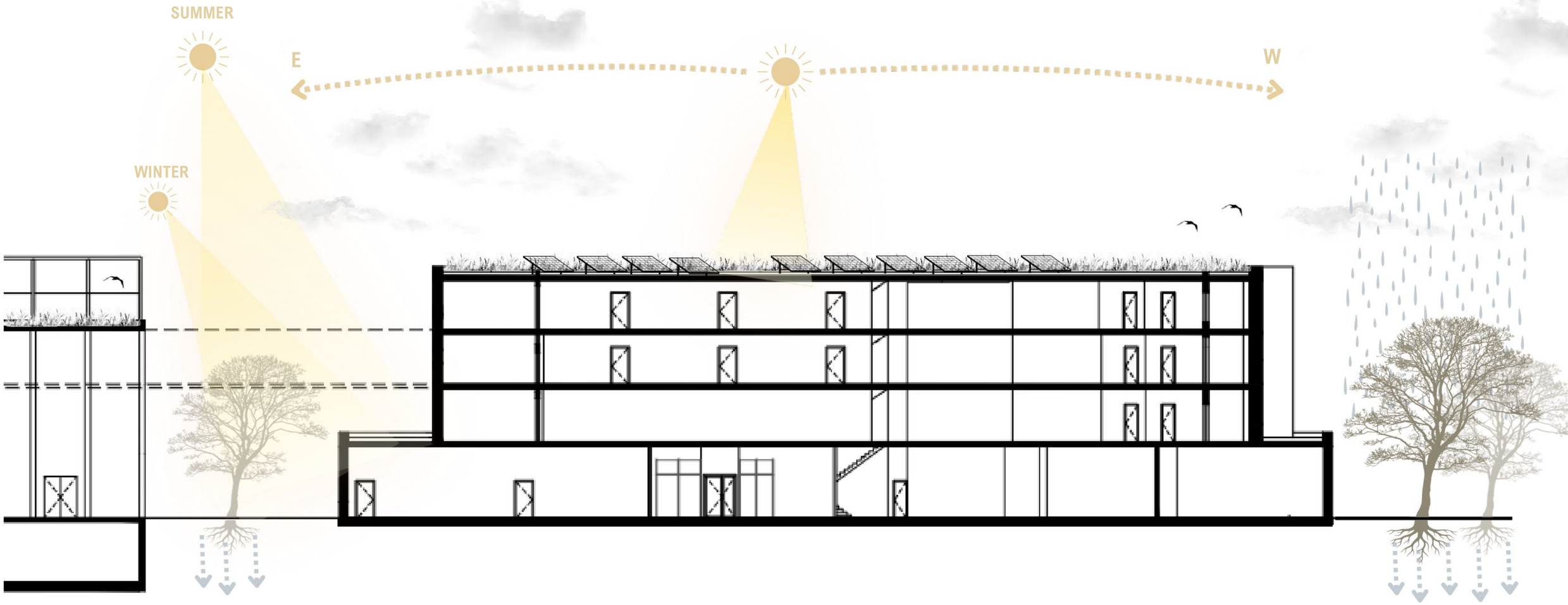


HEATING NEEDS



DAYLIGHT SIMULATION

ECO-EFFICIENCY DESIGN STRATEGY



BIODIVERSITY SUPPORT

THE PROJECT INTEGRATES THE BUILDING INTO THE LOCAL ECOSYSTEM BY USING EXTENSIVE GREEN ROOFS AS "STEPPING STONE" HABITATS FOR POLLINATORS AND NATIVE INSECTS. TO ENSURE AVIAN SAFETY NEAR THE SAVA RIVER, THE FACADES ARE EQUIPPED WITH 4BIRD® GLASS PROTECTION TO PREVENT COLLISIONS. THIS COMBINATION OF ROOFTOP VEGETATION AND THE PRESERVED WATERFRONT CREATES A CONTINUOUS ECOLOGICAL CORRIDOR THAT ENHANCES THE URBAN MICROCLIMATE AND FOSTERS A HEALTHY ENVIRONMENT FOR ALL LOCAL SPECIES.

SOLAR PANELS

TO MAXIMIZE RENEWABLE ENERGY PRODUCTION, THE ROOF SURFACES ARE EQUIPPED WITH A HIGH-EFFICIENCY PHOTOVOLTAIC SYSTEM. THESE SOLAR PANELS ARE STRATEGICALLY ANGLED TO CAPTURE PEAK SOLAR RADIATION THROUGHOUT THE YEAR, PROVIDING A CLEAN ENERGY SOURCE FOR THE BUILDING'S INTERNAL OPERATIONS AND REDUCING THE OVERALL CARBON FOOTPRINT OF THE SPORTS COMPLEX.

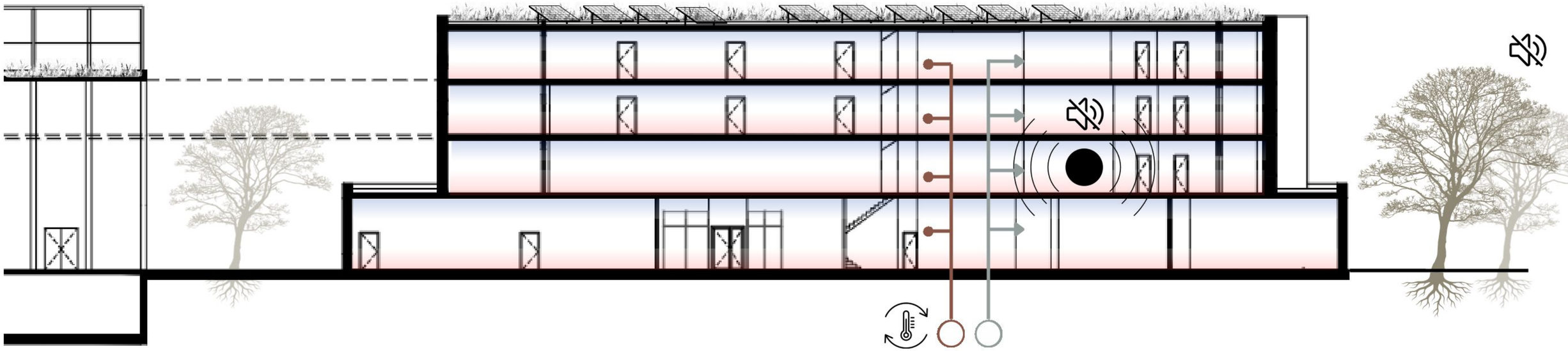
GREEN ROOFS

THE IMPLEMENTATION OF EXTENSIVE GREEN ROOFS SERVES AS A NATURAL THERMAL INSULATOR, PROTECTING THE STRUCTURE FROM EXTREME TEMPERATURE FLUCTUATIONS. BEYOND ENERGY EFFICIENCY, THESE LAYERS ENHANCE URBAN BIODIVERSITY, REDUCE THE "URBAN HEAT ISLAND" EFFECT, AND PROVIDE AN ADDITIONAL AESTHETIC AND ECOLOGICAL VALUE TO THE ARCHITECTURAL FORM.

RAINWATER MANAGEMENT

THE PROJECT FEATURES AN INTELLIGENT STORMWATER RETENTION SYSTEM. RAINWATER IS COLLECTED FROM THE ROOF SURFACES AND FILTERED THROUGH THE GREEN ROOF SUBSTRATE BEFORE BEING STORED FOR SECONDARY USES, SUCH AS LANDSCAPE IRRIGATION OR MAINTENANCE. THIS STRATEGY MINIMIZES RUNOFF INTO THE MUNICIPAL SEWAGE SYSTEM AND PROMOTES A CIRCULAR WATER ECONOMY ON-SITE.

SUSTENABLE STRATEGY



SAINT-GOBAIN | GLASS

GLAZING

WINDOW CLIMATOP COOL-LITE® SKN 176
SOLAR FACTOR G= 38%
THERMAL TRANSMITTANCE UG= 0.63 W/M²K
EQUIPPED WITH 4BIRD®
BIRD-COLLISION PROTECTION

FIRE RESISTANCE

TO MAXIMIZE RENEWABLE ENERGY PRODUCTION, THE ROOF SURFACES ARE EQUIPPED WITH A HIGH-EFFICIENCY PHOTOVOLTAIC SYSTEM. THESE SOLAR PANELS ARE STRATEGICALLY ANGLED TO CAPTURE PEAK SOLAR RADIATION THROUGHOUT THE YEAR, PROVIDING A CLEAN ENERGY SOURCE FOR THE BUILDING'S INTERNAL OPERATIONS AND REDUCING THE OVERALL CARBON FOOTPRINT OF THE SPORTS COMPLEX.

HEATING AND COOLING

THE IMPLEMENTATION OF EXTENSIVE GREEN ROOFS SERVES AS A NATURAL THERMAL INSULATOR, PROTECTING THE STRUCTURE FROM EXTREME TEMPERATURE FLUCTUATIONS. BEYOND ENERGY EFFICIENCY, THESE LAYERS ENHANCE URBAN BIODIVERSITY, REDUCE THE "URBAN HEAT ISLAND" EFFECT, AND PROVIDE AN ADDITIONAL AESTHETIC AND ECOLOGICAL VALUE TO THE ARCHITECTURAL FORM.

ACOUSTIC COMFORT

THE PROJECT FEATURES AN INTELLIGENT STORMWATER RETENTION SYSTEM. RAINWATER IS COLLECTED FROM THE ROOF SURFACES AND FILTERED THROUGH THE GREEN ROOF SUBSTRATE BEFORE BEING STORED FOR SECONDARY USES, SUCH AS LANDSCAPE IRRIGATION OR MAINTENANCE. THIS STRATEGY MINIMIZES RUNOFF INTO THE MUNICIPAL SEWAGE SYSTEM AND PROMOTES A CIRCULAR WATER ECONOMY ON-SITE.

FLOOD-ADAPTIVE LANDSCAPE

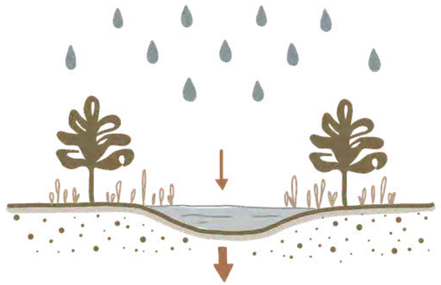
RAINWATER FLOOD MANAGEMENT

THE PROPOSAL ADDRESSES RAIN-INDUCED FLOODING THROUGH PERMEABLE SURFACES, DECENTRALIZED RETENTION POCKETS, GREEN ROOFS, AND CONTROLLED SURFACE DRAINAGE. THESE MEASURES REDUCE PEAK RUNOFF DURING INTENSE RAINFALL EVENTS AND PREVENT LOCAL FLOODING. THE SYSTEM IS DESIGNED AS A WATER-SENSITIVE URBAN LAYER THAT IMPROVES MICROCLIMATE, SUPPORTS VEGETATION, AND INCREASES OVERALL CLIMATE RESILIENCE.

RIVER FLOOD MANAGEMENT

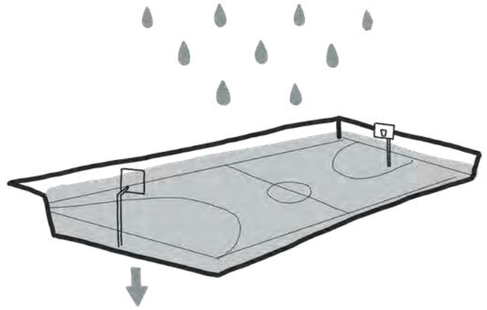
THE DESIGN RESPONDS TO RIVER-BASED FLOODING BY INTEGRATING CONTROLLED OVERFLOW ZONES, RETENTION TERRACES, AND NATURALLY FUNCTIONING FLOODPLAIN AREAS. THE LANDSCAPE IS SHAPED TO SAFELY ACCOMMODATE PERIODIC RISES IN WATER LEVEL WITHOUT ENDANGERING PUBLIC SPACE OR BUILT STRUCTURES. THIS APPROACH RESPECTS THE NATURAL HYDROLOGICAL DYNAMICS OF THE RIVER WHILE ENHANCING LONG-TERM RESILIENCE AND ECOLOGICAL VALUE.

FLOOD-ADAPTIVE LANDSCAPE



PERMEABLE SURFACES

ALLOW WATER INFILTRATION AND REDUCE RUNOFF

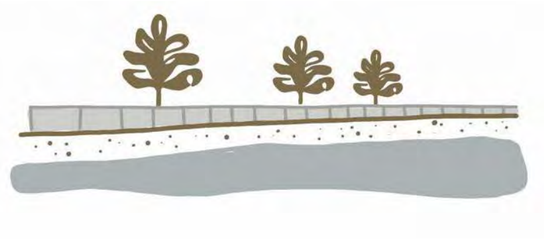


SPORTS FIELDS AS RETENTION BASINS

SUNKEN AREAS COLLECT AND STORE EXCESS WATER

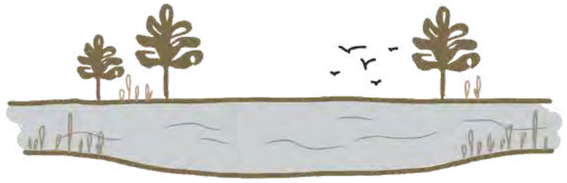
ELEVATED RIVERBANK

RAISED TO A SAFE FLOOD LEVEL



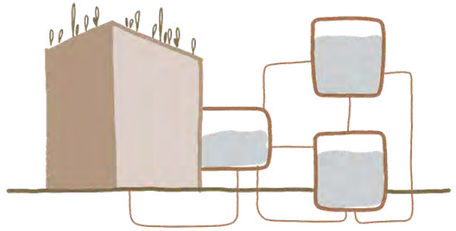
FLOOD BARRIERS

PROTECT THE AREA DURING EXTREME EVENTS



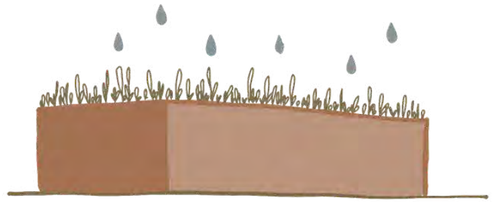
MULTIFUNCTIONAL LAKE

RETAINS EXCESS WATER, SUPPORTS BIODIVERSITY AND ENHANCES PUBLIC SPACE



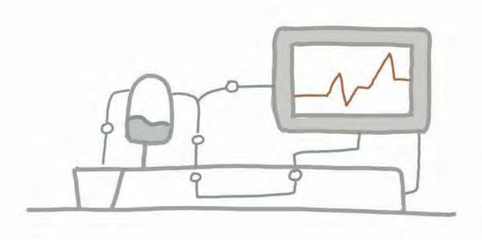
GREY AND BLACK WATER MANAGEMENT

WATER REUSE AND TREATMENT SYSTEMS



GREEN ROOFS

RETAIN WATER AND REDUCE HEAT GAIN



SMART WATER SYSTEMS

MONITOR AND MANAGE WATER EFFICIENTLY

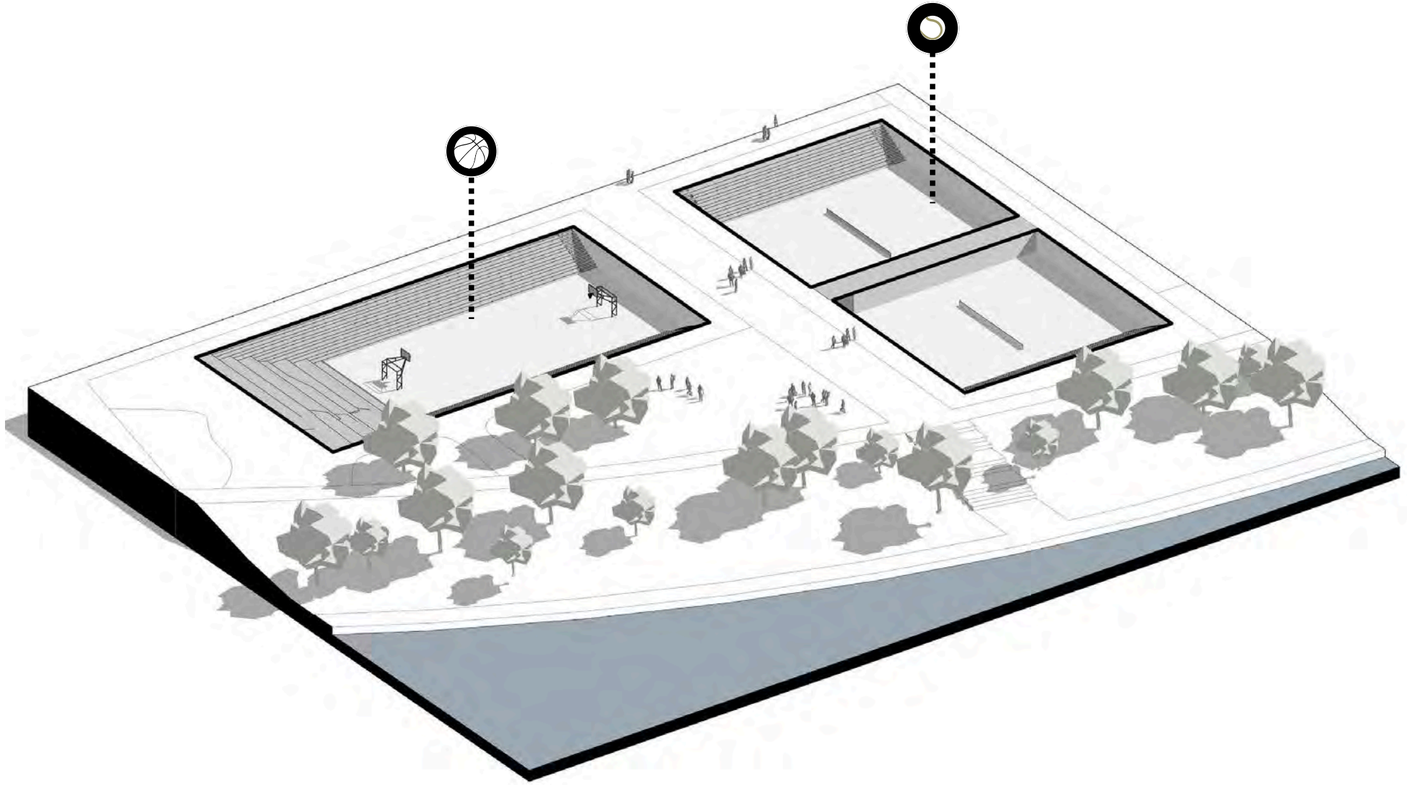
RAINWATER FLOOD MANAGEMENT

SUNKEN BASKETBALL COURT

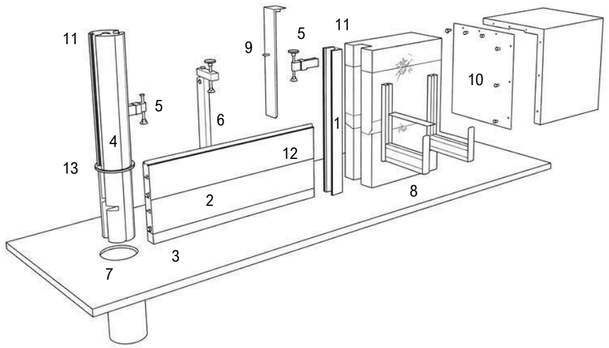
SUNKEN TENNIS COURT

THE PROJECT INTRODUCES AN INNOVATIVE APPROACH TO URBAN WATER MANAGEMENT BY UTILIZING MULTIFUNCTIONAL INFRASTRUCTURE IN THE FORM OF SUNKEN BASKETBALL AND TENNIS COURTS. THESE AREAS ARE STRATEGICALLY ENGINEERED TO SERVE AS ACTIVE RETENTION BASINS DURING PERIODS OF HEAVY RAINFALL OR EXTREME STORMS, EFFECTIVELY PREVENTING LOCAL FLOODING BY CAPTURING EXCESS SURFACE WATER. WITH A MASSIVE TOTAL CAPACITY OF UP TO 2,700,000 LITERS, THIS SYSTEM SIGNIFICANTLY ALLEVIATES PRESSURE ON THE CITY'S SEWAGE INFRASTRUCTURE DURING TORRENTIAL DOWNPOURS.

THE CAPTURED RAINWATER IS TREATED AS A VALUABLE RESOURCE RATHER THAN WASTE; ONCE THE PEAK OF A STORM PASSES, THE WATER IS PUMPED OUT AND FILTERED FOR SECONDARY USE WITHIN THE COMPLEX, SUCH AS TOILET FLUSHING OR LANDSCAPE IRRIGATION. IN CASES OF EXTREME SATURATION, THE SYSTEM ALLOWS FOR A GRADUAL AND CONTROLLED DISCHARGE OF WATER AWAY FROM THE SITE. THIS ENSURES THAT THE COURTS ARE QUICKLY CLEARED AND CAN PROMPTLY RETURN TO THEIR PRIMARY ATHLETIC AND RECREATIONAL FUNCTIONS.



RIVER FLOOD MANAGEMENT



1. MOUNTING PROFILE: BUILT PERMANENTLY INTO THE MASONRY, EITHER IN FRONT OF OR AT THE JAMBS, OR RECESSED INTO THE JAMB.
2. BARRIER BOARD: IN THE ILLUSTRATION, THE LOWEST BOARD IS CONNECTED TO ITEM 3.
3. BOTTOM SEAL: FOR SEALING BETWEEN THE LOWEST BARRIER BOARD AND THE GROUND.
4. SUPPORT POST: USED AS INTERMEDIATE SUPPORT FOR LARGER AREAS.
5. MOUNTING CLAMP (WITH HEX OR STAR SCREW): FOR FASTENING THE BARRIER BOARDS.
6. RETAINER: PREVENTS VERTICAL BENDING OF THE BOARDS AND INCREASES PRESSURE ON THE BOTTOM SEAL.
7. GROUND SLEEVE: SLEEVE EMBEDDED IN THE FOUNDATION FOR INSERTING THE SUPPORT POST.
8. BRACKET HOLDER: FOR STORING THE BARRIER BOARDS WHEN NOT IN USE.
9. COVER CAP: FOR COVERING THE MOUNTING PROFILES WHEN NOT IN USE.
10. STORAGE COVER: INDIVIDUAL SEGMENTS (LENGTH: 445 MM) ARE SCREWED TOGETHER.
11. MOUNTING PROFILE SEAL
12. BARRIER BOARD BOTTOM SEAL
13. COVER AND GROUND SLEEVE SEAL

RAPID DEPLOYMENT BARRIER SYSTEM

THIS FLOOD PROTECTION STRATEGY UTILIZES A MOBILE MODULAR BARRIER SYSTEM DESIGNED FOR RAPID DEPLOYMENT IN THE EVENT OF A RISING SAVA RIVER. THE CORE OF THE SYSTEM CONSISTS OF PRE-INSTALLED GROUND SLEEVES AND MOUNTING PROFILES EMBEDDED DIRECTLY INTO THE PROMENADE ALONG THE RIVERBANK. WHEN A FLOOD THREAT ARISES, LIGHTWEIGHT BARRIER BOARDS ARE QUICKLY SLOTTED INTO THESE PRE-BUILT GROOVES AND SECURED WITH MOUNTING CLAMPS TO CREATE A WATERTIGHT SEAL. THIS STRUCTURAL INTEGRITY IS FURTHER REINFORCED BY INTERMEDIATE SUPPORT POSTS, ENSURING THAT THE URBAN AREA REMAINS PROTECTED EVEN UNDER SIGNIFICANT WATER PRESSURE. ONCE THE WATER LEVEL RECEDES, THE ENTIRE SYSTEM CAN BE EFFICIENTLY DISMANTLED AND STORED, LEAVING THE RIVERFRONT UNOBSTRUCTED FOR DAILY PUBLIC USE.

BRIDGE AS AN EXPERIENCE

THE BRIDGE IS DESIGNED NOT ONLY AS A CONNECTION BETWEEN TWO POINTS, BUT AS A SPATIAL EXPERIENCE IN ITSELF. GENEROUS VIEWPOINTS, SEATING NICHES, AND A COMFORTABLE WALKING PROFILE TRANSFORM THE CROSSING INTO A PLACE TO SLOW DOWN, OBSERVE THE LANDSCAPE, AND ENJOY THE RIVER. THE BRIDGE BECOMES A PUBLIC SPACE SUSPENDED ABOVE WATER — A DESTINATION, NOT JUST A ROUTE.

THE STORYTELLING BRIDGE

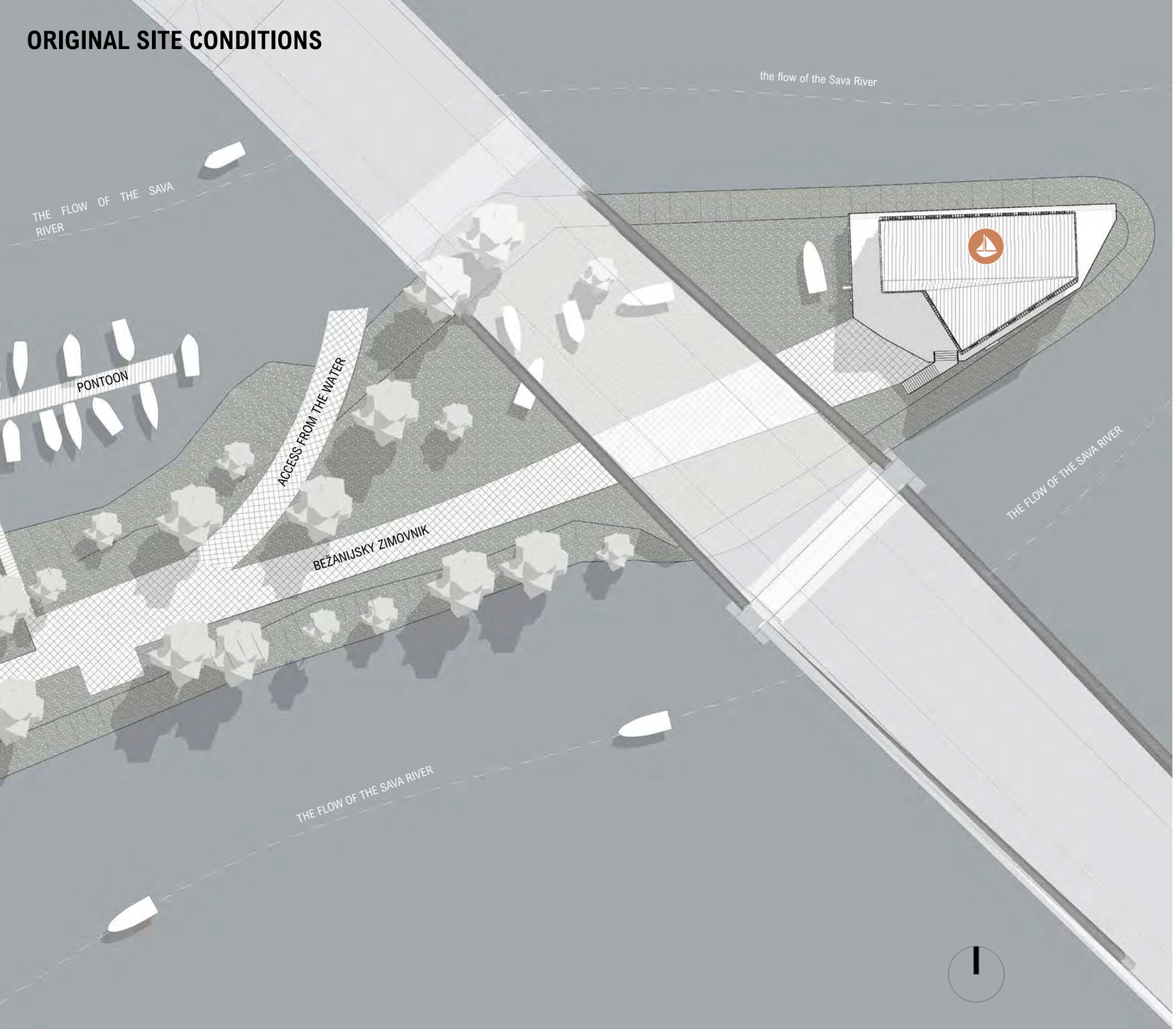
EACH PROJECTION ALONG THE BRIDGE FEATURES A PHOTOGRAPH OR OUTLINE REFERENCING FRAGMENTS OF THE FORMER CEMENT PLANT, PRESERVING ITS MEMORY WITHIN THE NEW LANDSCAPE. AS VISITORS MOVE ACROSS THE BRIDGE, THEY ENCOUNTER A SEQUENCE OF EDUCATIONAL STOPS THAT EXPLAIN HOW THIS PART OF THE CITY EVOLVED — FROM AN UNPOPULAR INDUSTRIAL ZONE INTO A BEAUTIFUL, ENVIRONMENTALLY FRIENDLY PUBLIC ENVIRONMENT. THE BRIDGE BECOMES NOT ONLY A CROSSING, BUT AN INTERPRETIVE PATH THAT REVEALS THE SITE'S TRANSFORMATION AND KEEPS ITS INDUSTRIAL HERITAGE ALIVE.

YACHT CLUB

THE RENOVATION TRANSFORMS THE YACHT CLUB INTO AN ACTIVE, PUBLICLY ACCESSIBLE WATERFRONT HUB. WHILE PRESERVING THE BUILDING'S ORIGINAL CHARACTER, THE REDESIGN IMPROVES CIRCULATION AND OPENS THE SPACE TO THE RIVER. THE LOWER FLOORS ARE DEDICATED TO SPORTS AND TRAINING, WHILE THE NEW, FLEXIBLE UPPER LEVEL SUPPORTS COMMUNITY AND CULTURAL EVENTS.

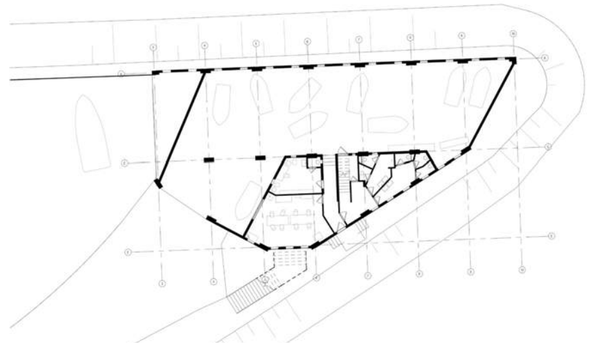
INSPIRED BY SAILING AESTHETICS, THE DESIGN USES NATURAL WOOD, GLASS, AND SAIL-LIKE CANOPIES TO CREATE A LIGHTWEIGHT, AIRY LANDMARK. THE UPPER FLOOR'S VOLUME IS REDUCED TO EMPHASIZE OPENNESS AND PROVIDE PANORAMIC VIEWS. WITH FULL BARRIER-FREE ACCESS AND A FLUID INTERIOR LAYOUT, THE CLUB BECOMES A WELCOMING SOCIAL DESTINATION FOR THE ENTIRE CITY.

ORIGINAL SITE CONDITIONS

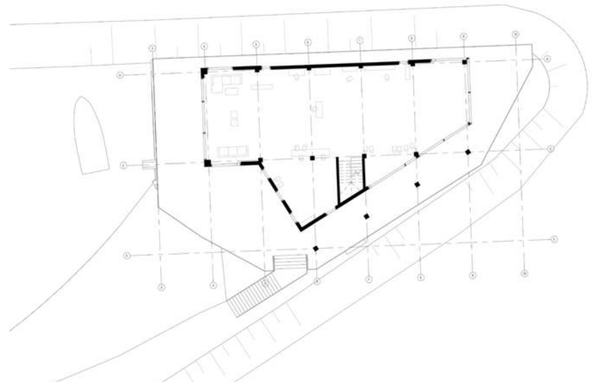


ORIGINAL FLOOR PLANS

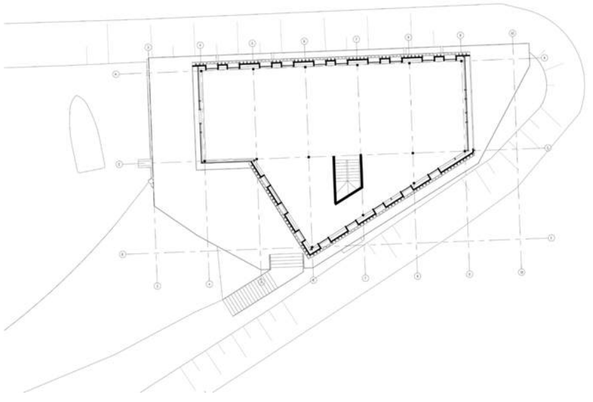
1ND FLOOR – FLOOR PLAN



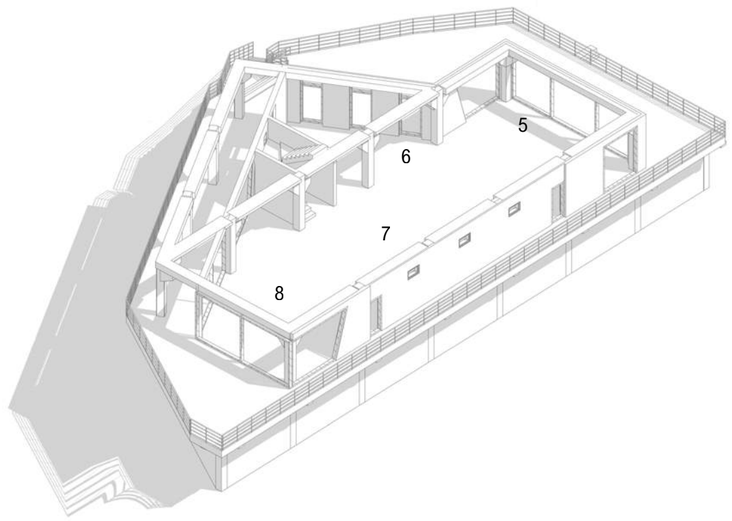
2RD FLOOR – FLOOR PLAN



3TH FLOOR – FLOOR PLAN



SECOND FLOOR AXONOMETRY



THE ORIGINAL STATE OF THE BUILDING IS CHARACTERIZED BY A MODULAR STRUCTURAL SYSTEM COMPOSED OF PREFABRICATED UNITS ARRANGED IN A CLEAR, REPETITIVE GRID. THE FLOOR PLAN SHOWS A LINEAR ACCOMMODATION LAYOUT WITH ROOMS ORGANIZED ALONG CENTRAL CORRIDORS, FORMING TWO ANGLED WINGS THAT DEFINE THE OVERALL GEOMETRY OF THE OBJECT. THE CONSTRUCTION RELIES ON A LIGHTWEIGHT STEEL FRAME WITH INSULATED SHEET-METAL CLADDING, REFLECTING AN EFFICIENT AND ECONOMICALLY DRIVEN BUILDING METHOD TYPICAL FOR TEMPORARY OR RAPIDLY ASSEMBLED STRUCTURES.
THE INTERNAL SPACES ARE FUNCTIONAL BUT MINIMAL, WITH STANDARDIZED ROOM MODULES, SIMPLE CIRCULATION ROUTES, AND LIMITED ARCHITECTURAL ARTICULATION. THE EXISTING CONFIGURATION PROVIDES BASIC ACCOMMODATION CAPACITY BUT LACKS SPATIAL DIVERSITY, ENVIRONMENTAL QUALITY, AND LONG-TERM ADAPTABILITY. THE MODULAR SYSTEM, WHILE EFFICIENT, RESULTS IN A UNIFORM AND RIGID LAYOUT THAT DOES NOT FULLY RESPOND TO CONTEMPORARY COMFORT, SUSTAINABILITY, OR OPERATIONAL REQUIREMENTS.
THIS ORIGINAL CONDITION SERVES AS THE BASELINE FOR THE PROPOSED RECONSTRUCTION, WHERE THE GOAL IS TO TRANSFORM THE EXISTING MODULAR STRUCTURE INTO A MORE FLEXIBLE, COMFORTABLE, AND ARCHITECTURALLY COHERENT ENVIRONMENT ALIGNED WITH THE AMBITIONS OF THE SAINT-GOBAIN COMPETITION.

THE PHOTOGRAPHIC DOCUMENTATION CLEARLY SHOWS THAT THE ORIGINAL SPACES HAVE LOST THE CHARACTERISTIC IDENTITY ASSOCIATED WITH YACHT CLUBS. INSTEAD OF AN ENVIRONMENT CONNECTED TO WATER, SPORT, COMMUNITY, AND CLUB CULTURE, THE INTERIORS FUNCTION AS INDUSTRIAL WORKSHOPS, STORAGE ROOMS, AND TECHNICAL SERVICE AREAS.
THE ROOMS ARE FILLED WITH TOOLS, WORKBENCHES, EQUIPMENT, AND MISCELLANEOUS STORED ITEMS, CREATING THE ATMOSPHERE OF A MAINTENANCE FACILITY RATHER THAN A CLUB. THE LARGE CONCRETE CEILINGS, EXPOSED STRUCTURES, AND HARD INDUSTRIAL SURFACES FURTHER REINFORCE THIS PURELY OPERATIONAL CHARACTER. THERE ARE NO VISUAL OR SPATIAL ELEMENTS THAT WOULD REFERENCE BOATING, SAILING TRADITIONS, SOCIAL GATHERING SPACES, OR THE COMMUNAL SPIRIT TYPICAL OF YACHT CLUBS.
WHAT SHOULD BE A PLACE WITH A STRONG RELATIONSHIP TO THE WATERFRONT, BOATS, AND CLUB LIFE HAS TURNED INTO A FRAGMENTED SET OF WORKSHOPS AND STORAGE ZONES, WHERE THE ORIGINAL PURPOSE IS NO LONGER READABLE. THE IDENTITY OF THE YACHT CLUB HAS DISSOLVED INTO A TECHNICAL BACKGROUND WITHOUT ATMOSPHERE, NARRATIVE, OR CONNECTION TO ITS NATURAL CONTEXT.

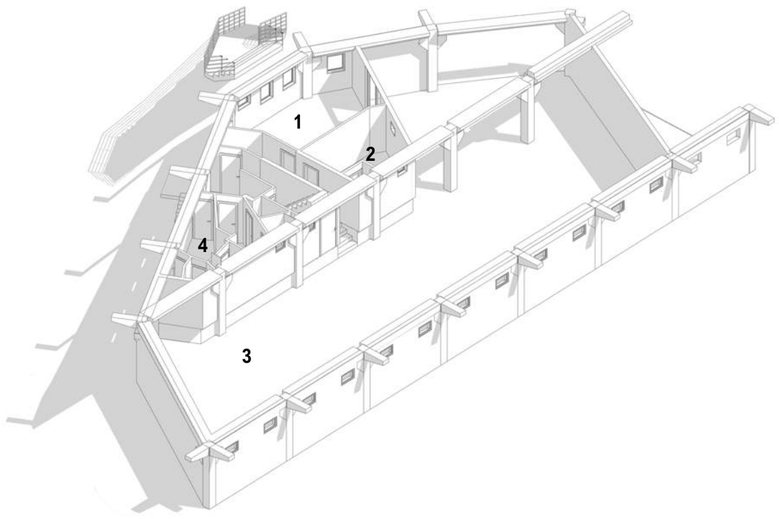
5 CHILL OUT ZONE

6 VIEW OF THE STAIRCASE

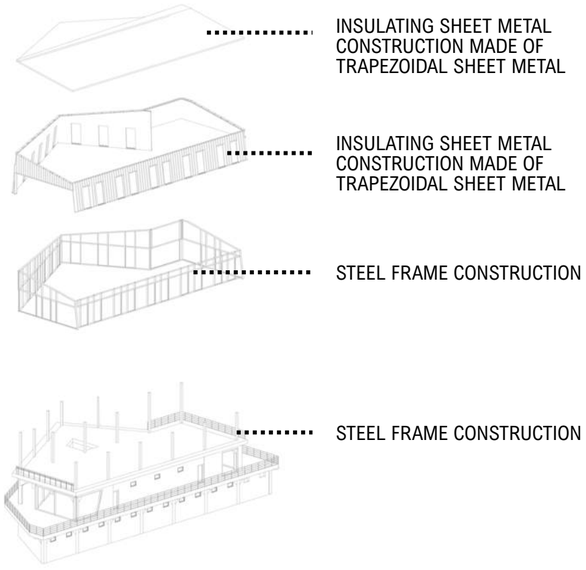
7 THE CENTER OF THE INTERIOR

8 GYM

FIRST FLOOR DIAGRAM



CONSTRUCTION DIAGRAM



INSULATING SHEET METAL CONSTRUCTION MADE OF TRAPEZOIDAL SHEET METAL

INSULATING SHEET METAL CONSTRUCTION MADE OF TRAPEZOIDAL SHEET METAL

STEEL FRAME CONSTRUCTION

STEEL FRAME CONSTRUCTION

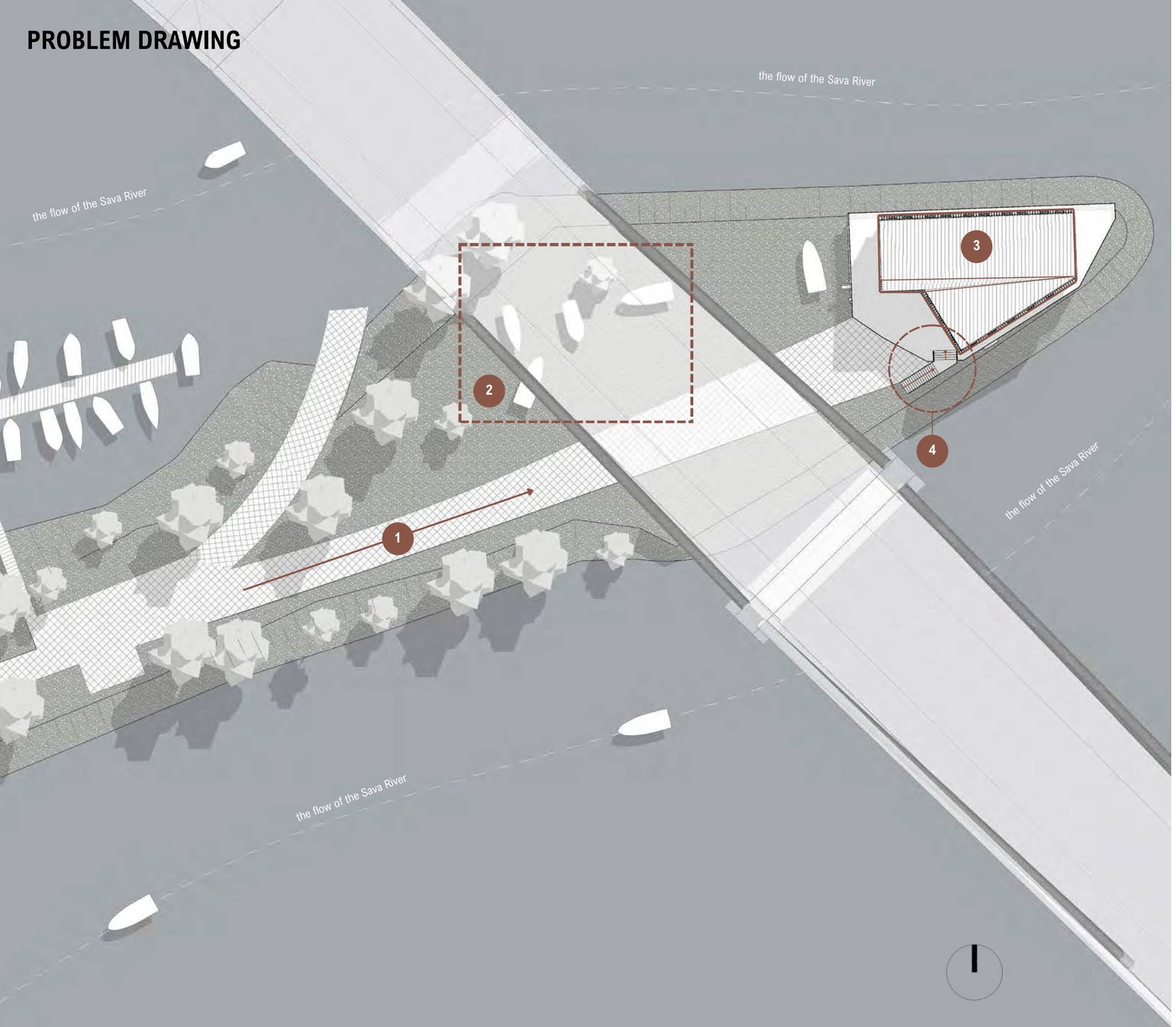
1 COMMON ROOM

2 ADMINISTRATIVE PART

3 YACHT WAREHOUSE

4 TOILET WITH CHANGING ROOM

PROBLEM DRAWING



1 INSUFFICIENT PEDESTRIAN ACCESS

THE CURRENT PATH NETWORK IS FRAGMENTED AND FAILS TO PROVIDE A LOGICAL CONNECTION BETWEEN THE CITY AND THE RIVERBANK. THE LACK OF CLEAR PEDESTRIAN PRIORITY MAKES THE WATERFRONT DIFFICULT TO NAVIGATE AND DISCOURAGES ACTIVE PUBLIC USE OF THE PROMENADE.

2 UNORGANIZED BOAT STORAGE

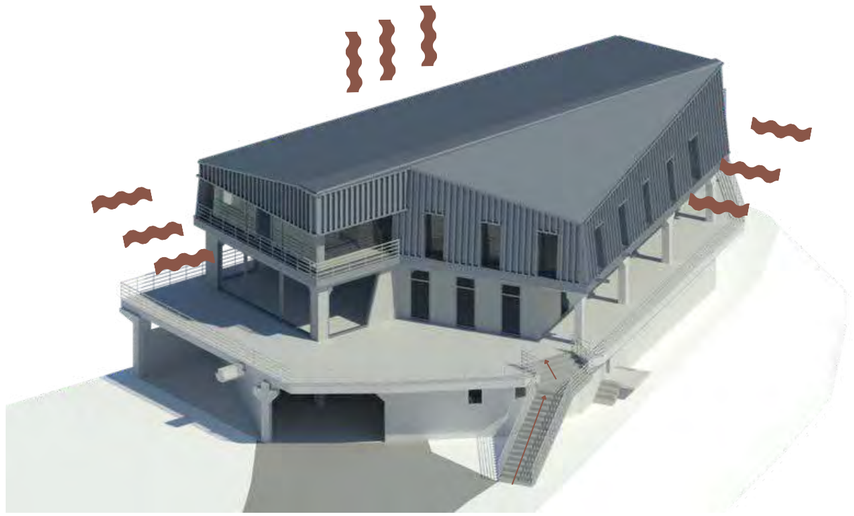
THE AREA UNDER THE BRIDGE AND ALONG THE SHORE IS CURRENTLY USED FOR HAPHAZARD BOAT STORAGE. THIS VISUAL AND PHYSICAL CLUTTER BLOCKS PUBLIC ACCESS TO THE WATER, CREATES "DEAD ZONES" IN THE LANDSCAPE, AND DIMINISHES THE AESTHETIC VALUE OF THIS PRIME RIVERSIDE LOCATION.

3 LOSS OF IDENTITY

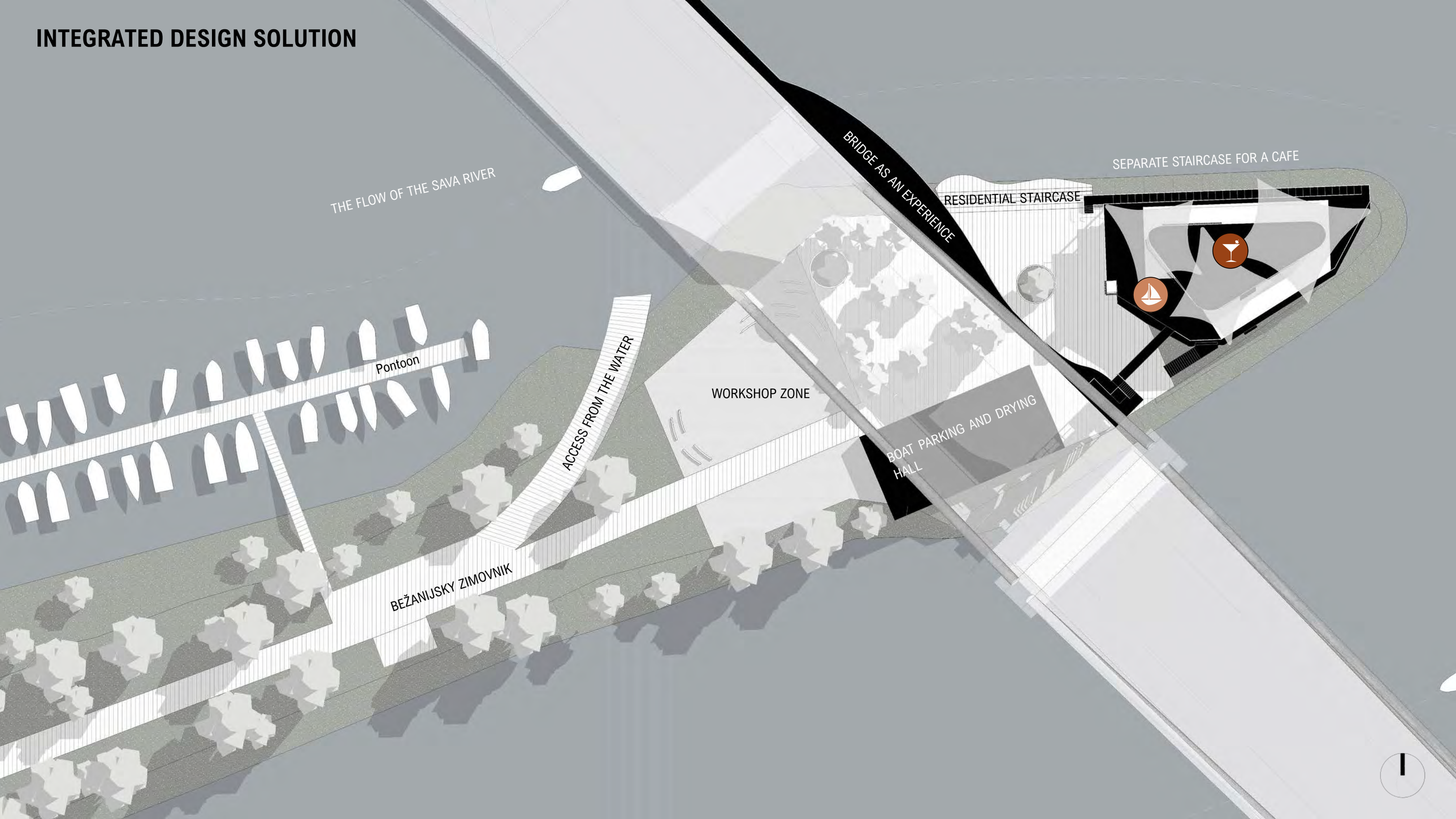
THE EXISTING BUILDING AT THE TIP OF THE PENINSULA HAS LOST ITS CONNECTION TO ITS SURROUNDINGS. DESPITE ITS PROMINENT POSITION, THE TOP FLOOR IS UNUSED AND CLOSED OFF. INAPPROPRIATE CLADDING MATERIALS LEAD TO OVERHEATING, MAKING THE SPACE UNINHABITABLE AND STRIPPING THE SITE OF ITS ARCHITECTURAL POTENTIAL.

4 PROBLEMATIC ACCESS AND COMPLETE ISOLATION

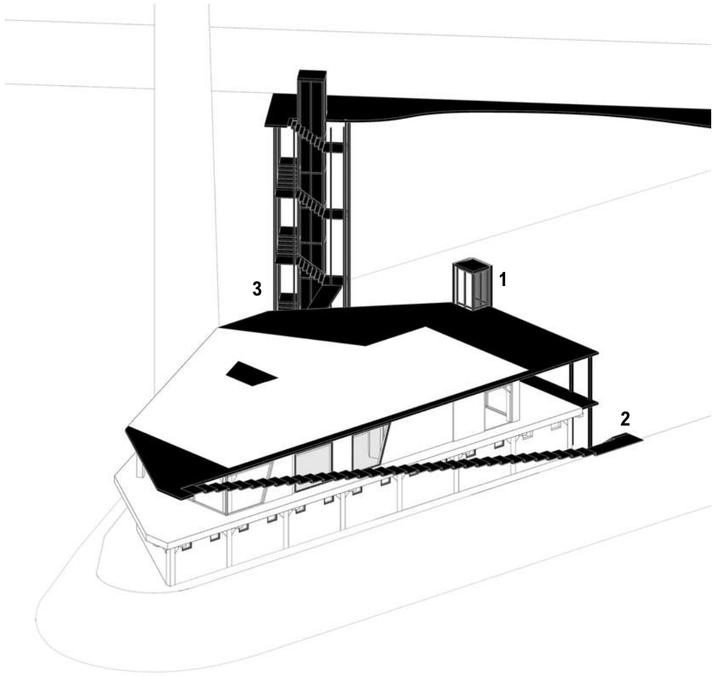
THE UPPER LEVELS OF THE STRUCTURE ARE OPERATIONALLY DISCONNECTED FROM THE REST OF THE BUILDING. WITH NO INDEPENDENT ACCESS OR BARRIER-FREE SOLUTIONS, THESE SPACES ARE ISOLATED, SIGNIFICANTLY LIMITING THEIR USABILITY FOR THE COMMUNITY AND SOCIAL ACTIVITIES.



INTEGRATED DESIGN SOLUTION



AXONOMETRIC VIEW OF ACCESS



IMPROVING VERTICAL AND HORIZONTAL CIRCULATION

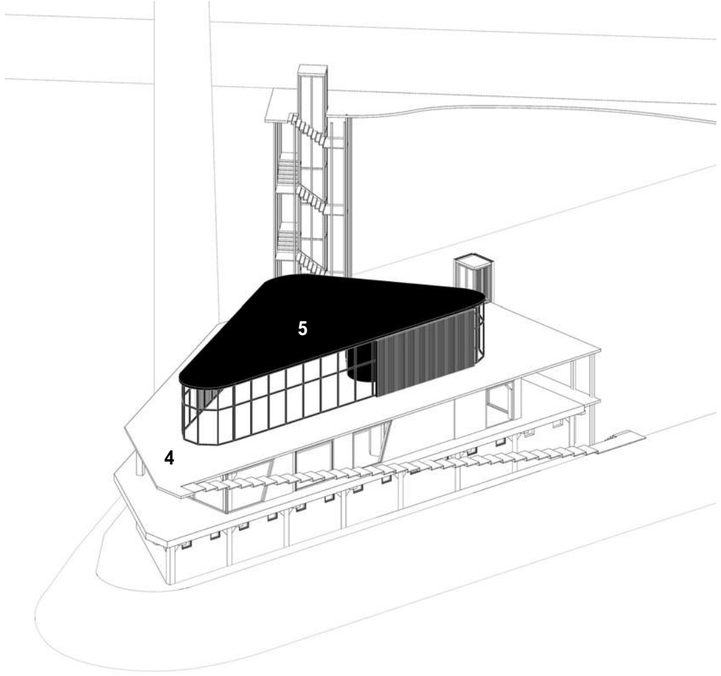
THIS VIEW FOCUSES ON THE INTEGRATION OF NEW COMMUNICATION CORES THAT ENSURE THE SMOOTH MOVEMENT OF VISITORS AND CLUB MEMBERS BETWEEN INDIVIDUAL FLOORS.

1 – NEW SECONDARY ENTRANCE: A SUPPLEMENTARY ENTRY POINT THAT IMPROVES ACCESSIBILITY FROM THE PROMENADE AND ALLOWS FOR THE INDEPENDENT OPERATION OF DIFFERENT PARTS OF THE BUILDING.

2 – WATERFRONT CONNECTION: A REDESIGNED TERRACE AND STAIRCASE CREATING A DIRECT VISUAL AND PHYSICAL LINK BETWEEN THE CLUB'S INTERIOR AND THE SURFACE OF THE SAVA RIVER.

3 – INTEGRATED VERTICAL CORE: A NEW STAIRCASE AND ELEVATOR SYSTEM ENSURING FULL BARRIER-FREE ACCESS, CONNECTING THE SPORTS FACILITIES ON THE GROUND FLOOR WITH THE COMMUNITY SPACES ON THE UPPER LEVEL.

ENTERING THE SITE THROUGH IDENTITY AND NEW FORM



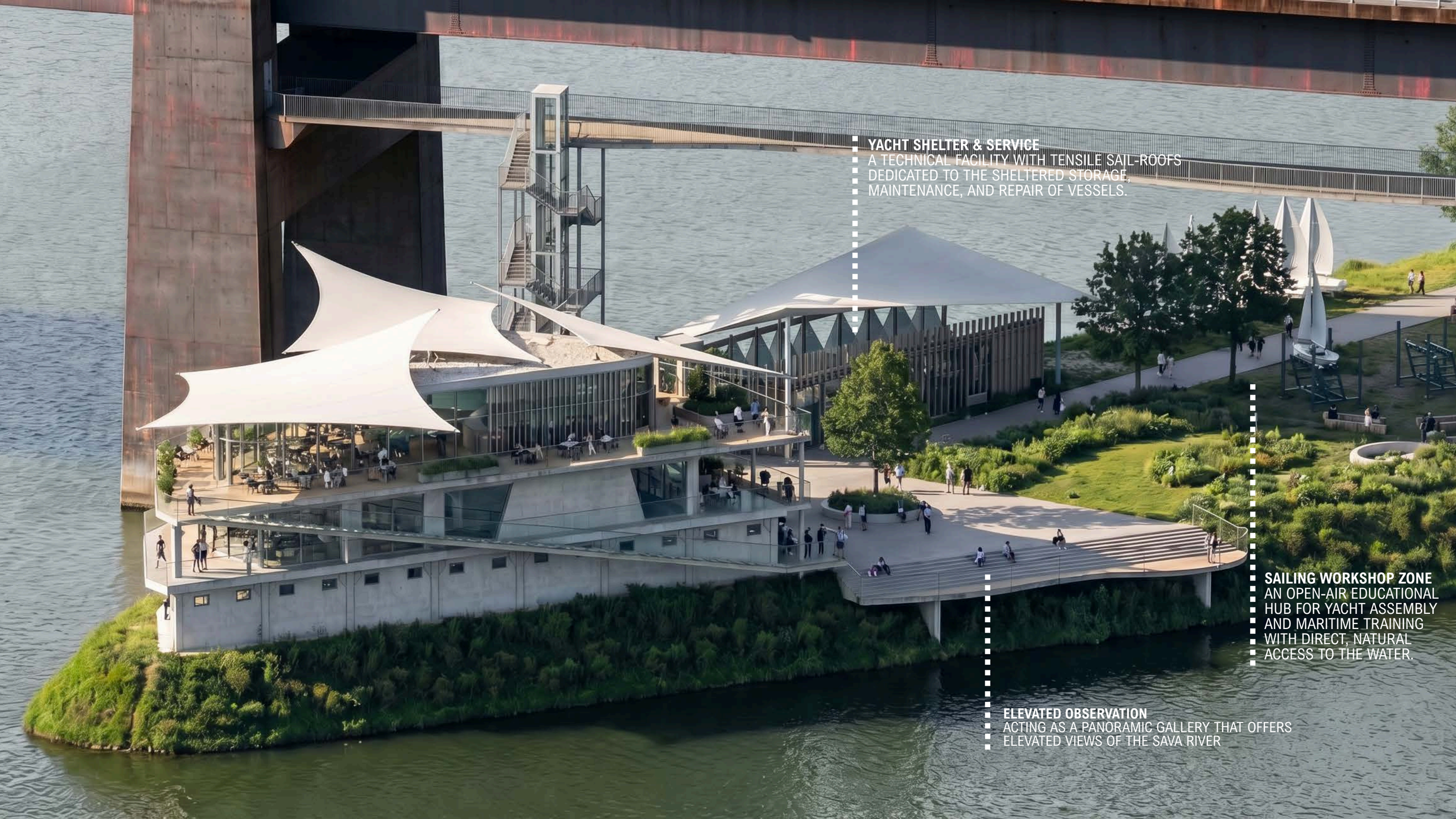
ARCHITECTURAL LANDMARK WITH A SAILING-INSPIRED SILHOUETTE

THE SECOND AXONOMETRY ILLUSTRATES THE NEW VOLUME OF THE UPPER FLOOR, WHICH DEFINES THE BUILDING'S IDENTITY AS A MODERN YACHT CLUB.

4 – EXPANDED OUTDOOR TERRACE: AN EXTENDED PERIMETER WALKWAY THAT SERVES AS A VIEWING PLATFORM WHILE SIMULTANEOUSLY SHADING THE LOWER FLOORS FROM DIRECT SUNLIGHT.

5 – LIGHTWEIGHT ROOF STRUCTURE: AN AERODYNAMICALLY SHAPED ROOF INSPIRED BY SAILS, WHICH GIVES THE BUILDING A SENSE OF LIGHTNESS AND CREATES A PROTECTED YET AIRY SPACE FOR SOCIAL ACTIVITIES.

ARCHITECTURAL IDENTITY: THE USE OF WOODEN SLATS AND TRANSPARENT GLASS SURFACES REFERENCES TRADITIONAL YACHTING AESTHETICS, WHILE THE NEW FORM REDUCES THE VISUAL MASS OF THE BUILDING AT THE TIP OF THE PENINSULA.


YACHT SHELTER & SERVICE
A TECHNICAL FACILITY WITH TENSILE SAIL-ROOFS DEDICATED TO THE SHELTERED STORAGE, MAINTENANCE, AND REPAIR OF VESSELS.
SAILING WORKSHOP ZONE
AN OPEN-AIR EDUCATIONAL HUB FOR YACHT ASSEMBLY AND MARITIME TRAINING WITH DIRECT, NATURAL ACCESS TO THE WATER.
ELEVATED OBSERVATION
ACTING AS A PANORAMIC GALLERY THAT OFFERS ELEVATED VIEWS OF THE SAVA RIVER

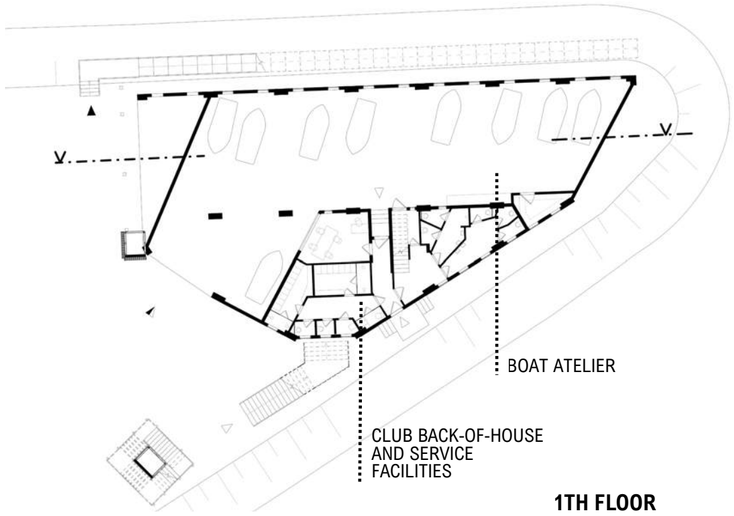
ENTRANCE TO THE CAFÉ – CONNECTION FROM THE STAIRCASE AND THE EXISTING BRIDGE

THE VISUALIZATION SHOWS THE MAIN ENTRANCE SEQUENCE INTO THE CAFÉ, DIRECTLY LINKED TO THE STAIRCASE DESCENDING FROM THE EXISTING BRIDGE. THIS ARRIVAL IS NOT BASED ON MATERIAL CONTINUITY BUT ON RESTORING THE IDENTITY OF THE YACHT CLUB — THE FEELING OF APPROACHING FROM THE WATER, THE OPENNESS, AND THE CONNECTION TO THE RIVER ENVIRONMENT.

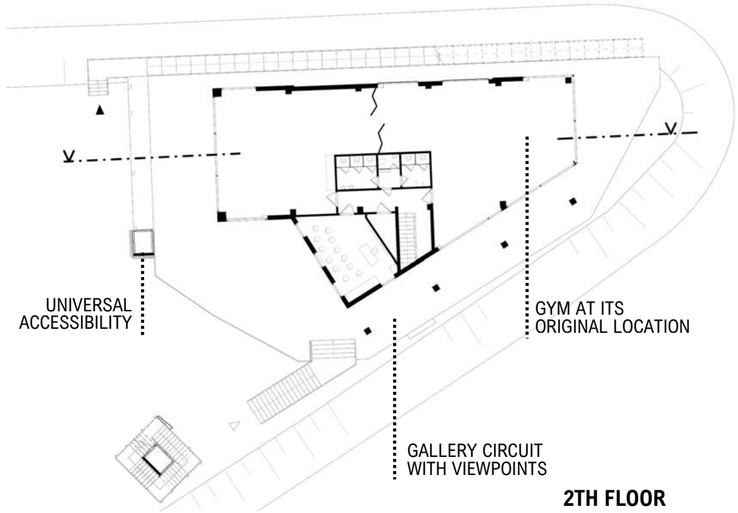
THE TERRACE ACTS AS THE FIRST MOMENT OF RENEWED CLUB ATMOSPHERE: THE LIGHT SAIL-LIKE SHADING ELEMENTS EVOKE BOAT SAILS, THE VERTICAL WOODEN SLATS RECALL MARINA STRUCTURES, AND THE LARGE GLAZING OPENS THE INTERIOR TOWARD THE WATER. AS VISITORS MOVE FROM THE BRIDGE INTO THE TERRACE, THEY IMMEDIATELY ENTER A SPACE THAT EXPRESSES THE CULTURE OF SAILING — BRIGHTNESS, AIRINESS, COMMUNITY, AND A STRONG VISUAL RELATIONSHIP WITH THE RIVER.

THIS ENTRANCE BECOMES BOTH A SYMBOLIC AND FUNCTIONAL RECONNECTION TO THE ORIGINAL YACHT CLUB IDENTITY, WHICH HAD BEEN LOST IN THE PREVIOUS STATE. THE BRIDGE, STAIRCASE, AND TERRACE TOGETHER FORM A CLEAR SPATIAL SEQUENCE THAT GUIDES VISITORS DIRECTLY INTO THE SOCIAL HEART OF THE BUILDING.

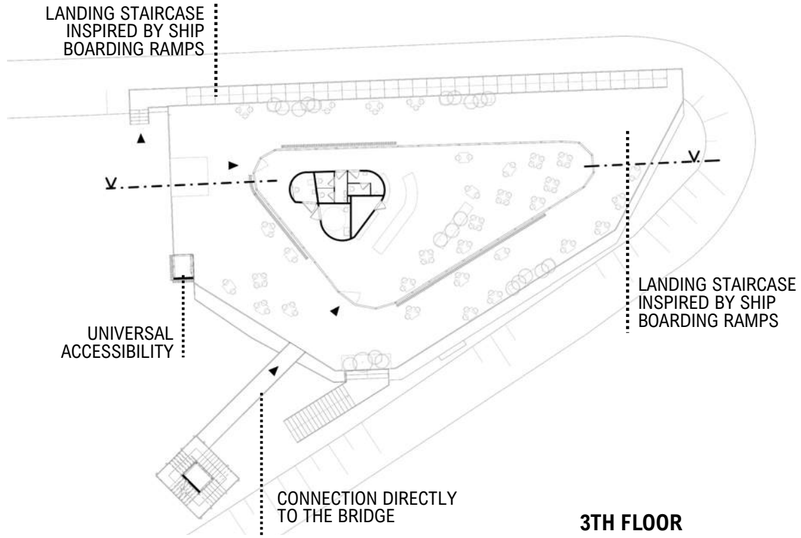
YACHT CLUB - FLOOR PLANS



1TH FLOOR



2TH FLOOR

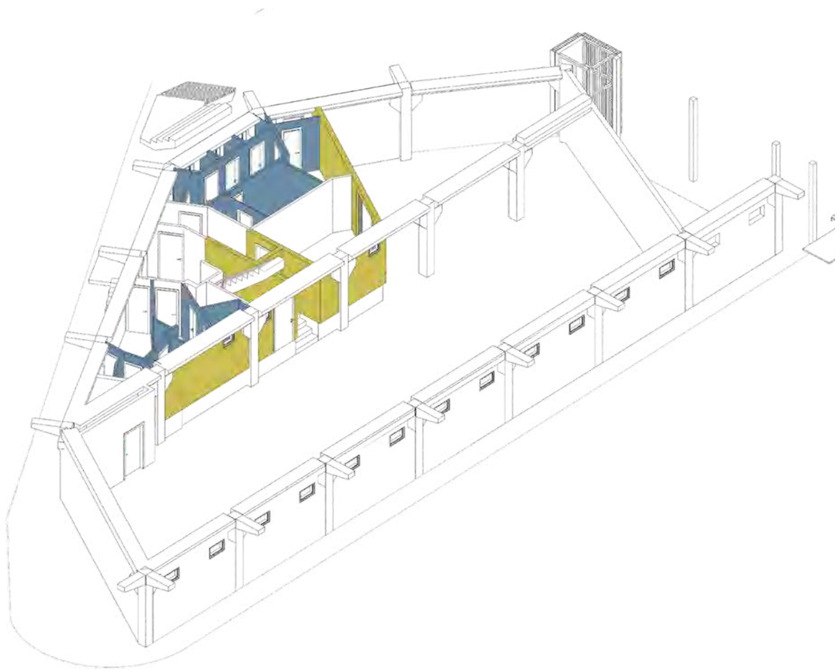


3TH FLOOR

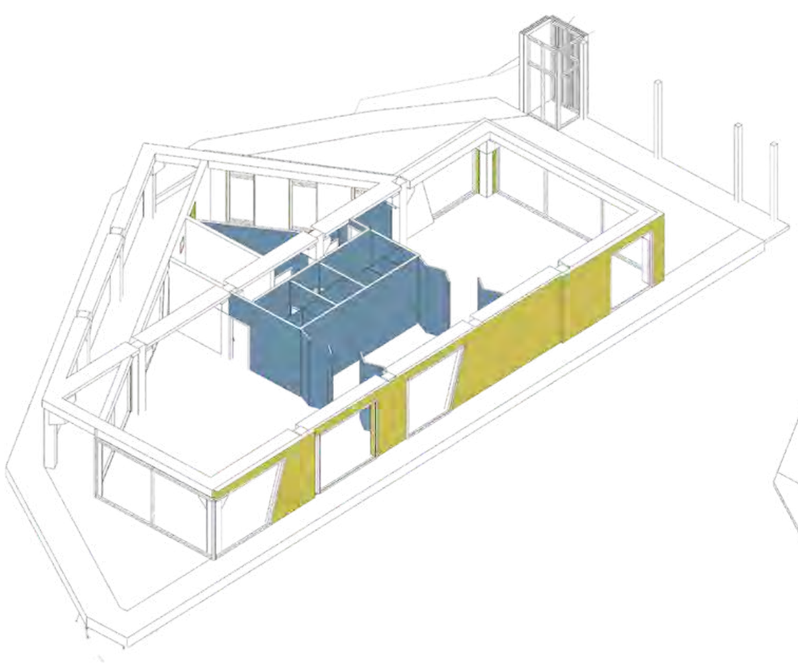
ROOFTOP CAFÉ:
A PANORAMIC SOCIAL HUB

LOCATED ON THE REDESIGNED UPPER FLOOR OF THE YACHT CLUB, THIS MODERN CAFÉ SERVES AS A VIBRANT SOCIAL DESTINATION THAT BLENDS CULTURAL COMMUNITY LIFE WITH A UNIQUE ARCHITECTURAL EXPERIENCE. THE SPACE IS CHARACTERIZED BY ITS FLUID, AIRY LAYOUT AND PANORAMIC GLASS SURFACES, WHICH OFFER VISITORS UNPARALLELED VIEWS OF THE MAIN URBAN AXIS AND THE NEWLY DEVELOPED CITY DISTRICT.

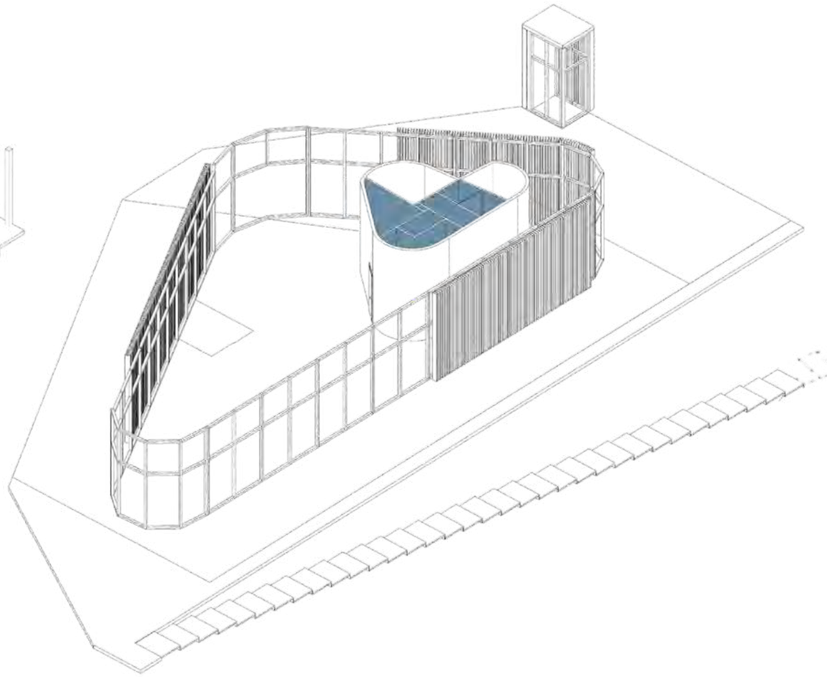
A KEY FEATURE OF THE DESIGN IS THE SYSTEM OF VERTICAL SLIDING WOODEN SLATS. THESE LAMELLAS ARE EQUIPPED WITH AN AUTOMATED ADJUSTMENT SYSTEM THAT RESPONDS TO THE SUN'S POSITION THROUGHOUT THE DAY, PROVIDING OPTIMAL SHADING AND THERMAL COMFORT WHILE MAINTAINING A VISUAL CONNECTION TO THE WATERFRONT. THIS DYNAMIC FACADE, COMBINED WITH THE USE OF NATURAL WOOD AND LIGHTWEIGHT STRUCTURES, REINFORCES THE CLUB'S SAILING-INSPIRED IDENTITY AND CREATES A FLEXIBLE, WELCOMING ENVIRONMENT ACCESSIBLE TO ALL VISITORS.



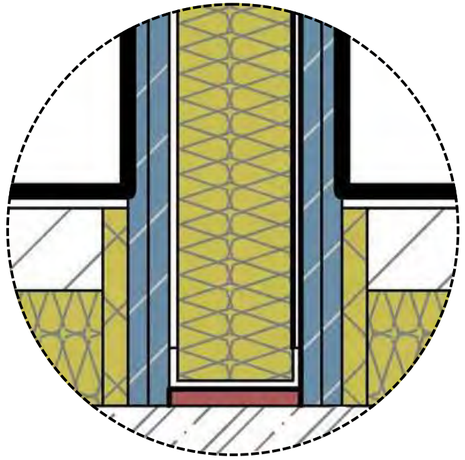
1TH FLOOR



2TH FLOOR



3TH FLOOR



INTEGRATED PERFORMANCE ENVELOPE

THIS STAGE DESCRIBES HOW RIGIPS AND ISOVER SYSTEMS ARE INTEGRATED INTO THE BUILDING TO ENHANCE OVERALL PERFORMANCE AND INTERIOR QUALITY. RIGIPS GYPSUM BOARD ASSEMBLIES PROVIDE PRECISE SPATIAL DEFINITION, STABLE PARTITION STRUCTURES, AND HIGH ACOUSTIC COMFORT. ISOVER MINERAL INSULATION COMPLEMENTS THE SYSTEM WITH EFFECTIVE THERMAL AND ACOUSTIC PERFORMANCE, REDUCING ENERGY LOSSES AND IMPROVING SOUND CONDITIONS WITHIN INDIVIDUAL ROOMS. TOGETHER, THEY FORM A COMPREHENSIVE SOLUTION THAT INCREASES BUILDING QUALITY, USER COMFORT, AND LONG-TERM CONSTRUCTION SUSTAINABILITY.

DETAIL DETAIL OF WALL CONNECTION - YACHT CLUB

1 ACTIV'AIR® MA AA (DF) BLUE ACOUSTIC PLASTERBOARD, T= 12,5 MM,
REACTION TO FIRE CLASS A2-S1, D0
2 MA ACOUSTIC CEILING SUBSTRUCTURE WITH SUSPENSION SYSTEM
6 PERIMETER WALL ANGLE FOR SUSPENDED CEILING
13 METAL STUD FRAMING SYSTEM (UW/CW PROFILES) FOR ACOUSTIC PARTITION

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3 ISOVER AKU 4 INSULATION BOARDS T= 40 MM, THERMAL RESISTANCE R= 1,1 M²·K/W,
BULK DENSITY > 40 KG/M³
7 ISOVER AKU 10 INSULATION BOARDS T= 100 MM, THERMAL RESISTANCE R= 2,85 M²·K/W,
BULK DENSITY > 40 KG/M³
8 PUREN GDS T= 80 MM THERMAL RESISTANCE R= 5,2 M²·K/W, REACTION TO FIRE CLASS E
9 ISOVER SUPER-VENT PLUS T= 180 MM, THERMAL RESISTANCE R= 5,8 M²·K/W,
REACTION TO FIRE CLASS A2-D1, S0
14 ISOVER N 4 IMPACT SOUND INSULATION LAYER 2XT = 40 MM, THERMAL RESISTANCE R= 1,10 M²·K/W,
REACTION TO FIRE CLASS A1

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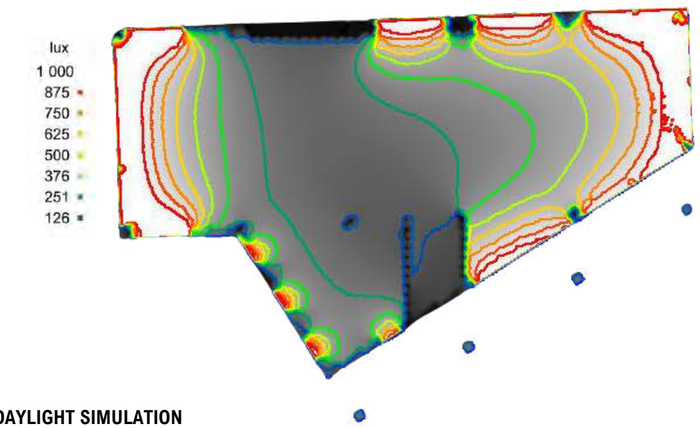
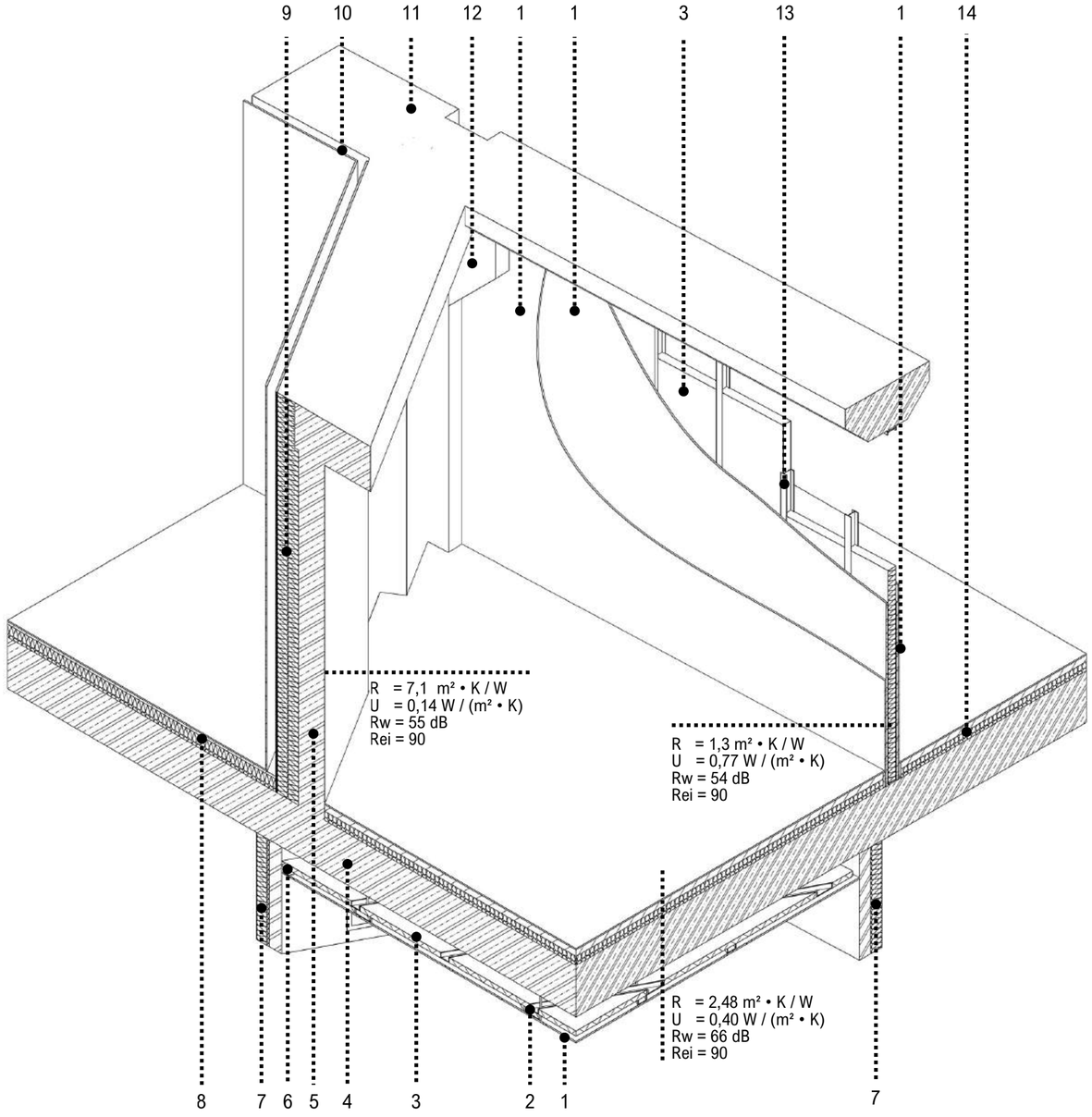
4 EXISTING PRECAST REINFORCED CONCRETE SLABS
5 EXISTING PRECAST CONCRETE INFILL SLABS BETWEEN BEAMS
10 NEW VENTILATED FAÇADE SYSTEM
11 EXISTING PRECAST REINFORCED CONCRETE BEAMS.
12 EXISTING PRECAST REINFORCED CONCRETE COLUMNS



DAYLIGHT SIMULATION



ARCHITECTURE STUDENT CONTEST

21st INTERNATIONAL EDITION, BELGRADE 2026

ANOTHER PLACE | TEAM no. 13