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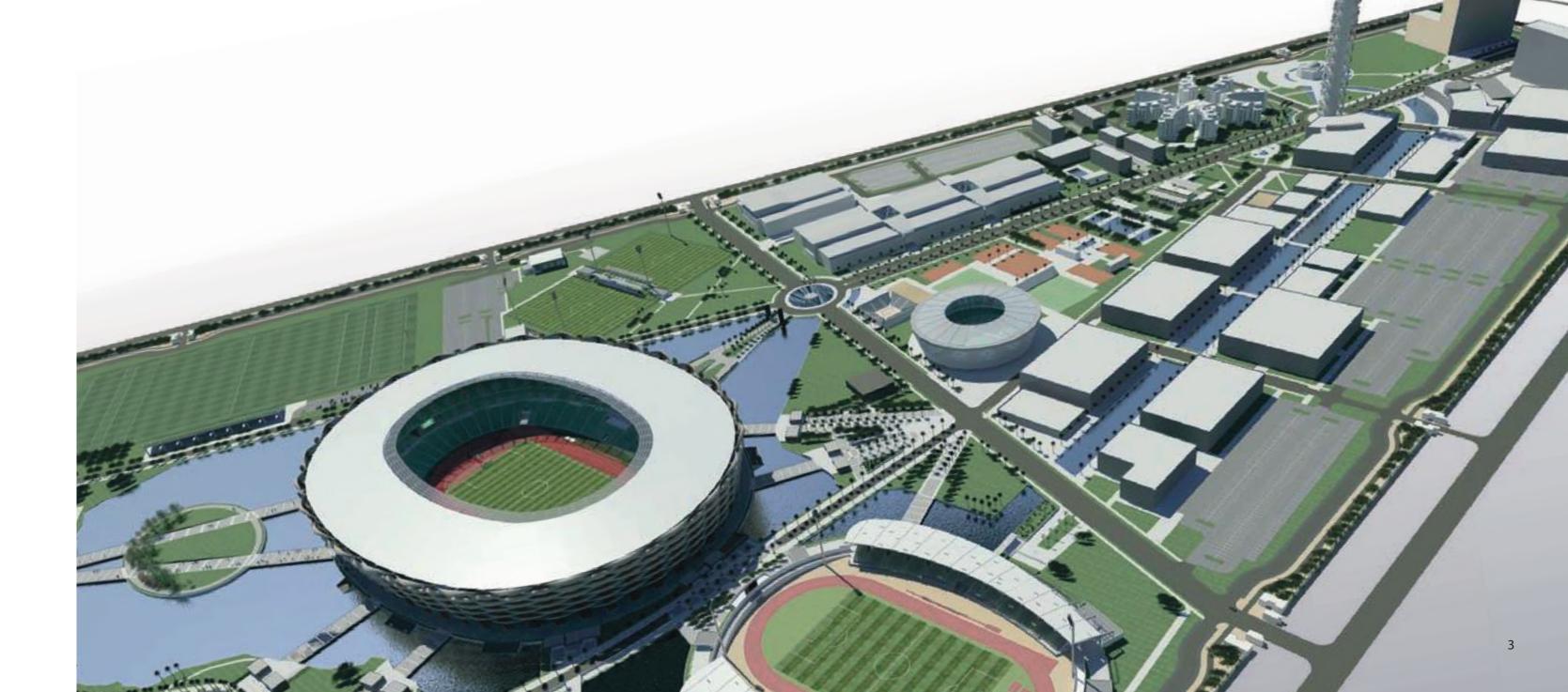
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INTRODUCTION

This book presents the Concept Plan for the Hotel and Business-centre in Basra Sport City, Iraq. It will represent a worthy entrance to this astonishing development and emphasize faith in the future of a proud nation.

The plan consists of three mayor functions: a five star hotel, a state of the art business-centre and a luxury mall for leisure and shopping.

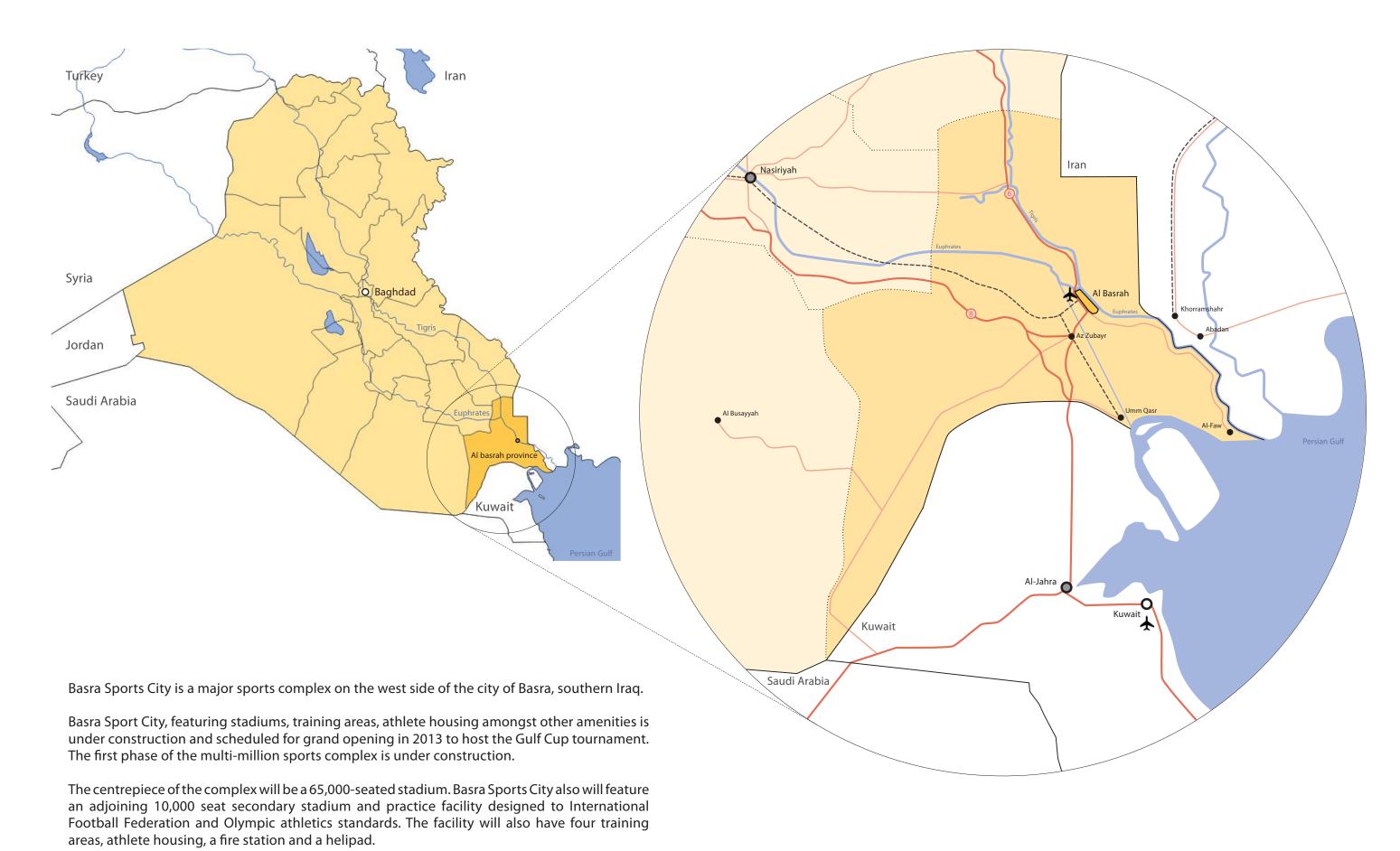
This concept plan is the first step in the design process. It will define the draft program and set the goals for an ambitious achievement. After the verification of the concept plan, its impact and costs it will serve as the program for the preliminary design phase, in which the actual designing will start.





LOCATION

LOCATION



In addition to the sports stadiums, there will be training facilities for Iraqi athletes - including a full natatorium, a velodrome, and three smaller arenas for gymnastics, fencing and other indoor sports. A mosque, an amusement park and additional parking facilities will be built in phase two of the project.

entrance of Basra Sport City.





covered area for parking

scale 1:2000

service road to the Sport City inner road of the Sport City **—————** border of Al-Basrah Sport City **— – — b**order of the design area green/covered area - landscape design

BUILDING CONCEPT

The concept shows a clear set-up both in logistics as in structure. It will represent a prosperous future and respects the rich history of its location.

The complex represents in fact a contemporary caravanseral with a symbolic central single wide portal giving access to Basra Sport City and the modern equivalent of a place for temporary stay and trade. As a caravanseral offered travellers a place to rest and recover, supported the flow of commerce, information, and people, this complex offers it all: a luxury five star hotel, a state of the art business-centre and a fully equipped modern hypermarket or mall.

A double floor underground parking garage for save and sun free parking of cars for guest, visitors and employees keeps the plot free for landscaping and luxury accesses to main entries.

The lower floors of the building hold the general functions of the three main programs: the hotel, the business-centre and the mall. Crossing the central access road to the Sport City it connects the programs in a way they benefit from each other.

The mall, mainly situated on the first floor above the road, will be accessible from both the hotel and the business-centre side. It will offer a hypermarket and luxury shopping and leisure area

On the second floor the conference centre and ballroom area is situated. This gives the opportunity for synergy use of these facilities from both sides also. If required even with it's own access. The position of the grand ballroom in the centre makes a beautiful space possible without columns.

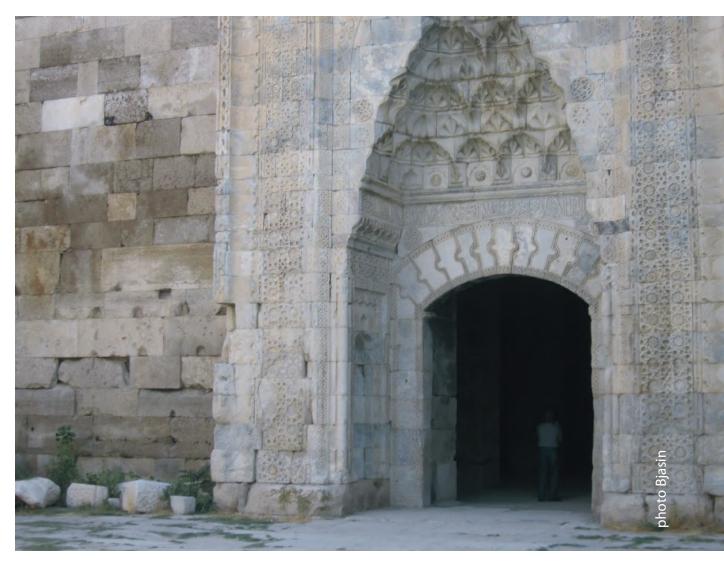
The towers function as a central landmark in the dessert silhouette being an iconic representation of the importance of the whole development of Basra Sport City. They will catch the eye from a far distance when you approach the facilities by car from the high way or by plane heading for landing at Basra's international airport.

Both towers are organised around a central core, the reinterpretation of the traditional sahn. Their appearance will be especially designed in a way they represent Iraqi's proud and uniqueness. Different from the kind of global architecture that can be found around the world anywhere nowadays, a more sophisticated modern architecture will put Basra and its Sport City on the global map though.

The aesthetic robust shape of the square towers is softened by the lightness of glass and the carefully designed proportions and plasticity of holes in their volumes to ensures a proper appearance into its unique setting.

Discreet modern smart sustainable facades in which the holes can be seen as reversed Mashrabiyas or Shanasheels will wrap the tower floors. They will serve for special functions such as terraces, hanging gardens, executive meeting areas and viewpoints. One can feel the wind here or experience the scenery. They also enable the filtered sunlight to enter the sahn.

Three glass diamonds, two on both towers and one on the central grand ballroom, emphasizing prosperity and faith in the future of Iraq, will literally crown the plan.



11

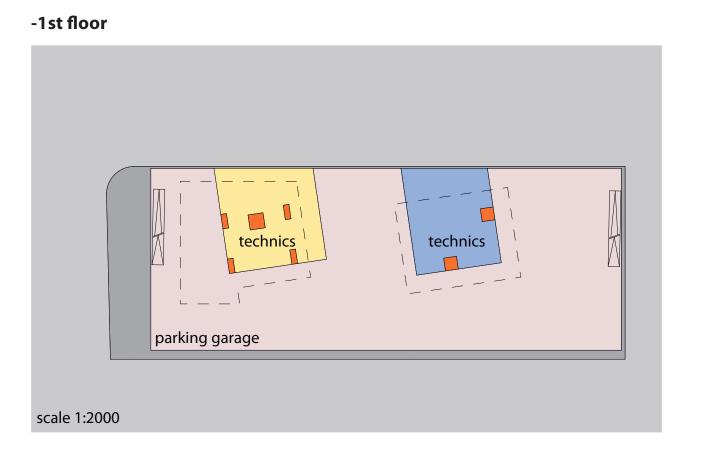
schematic site drawing

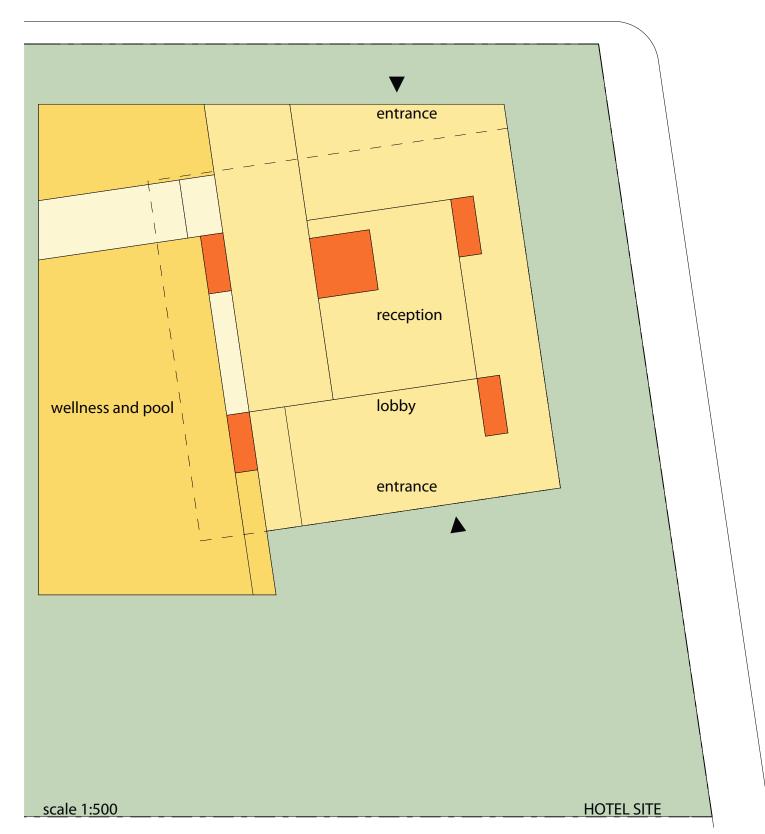
HOTEL AND BUSINESS-CENTRE BASRA SPORT CITY

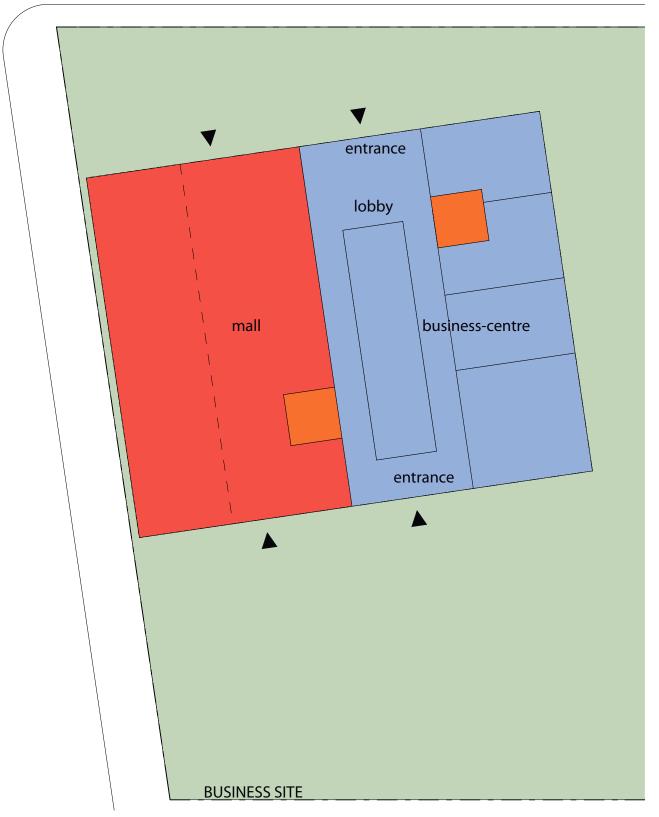
BUILDING CONCEPT

ground floor

-2nd floor technics parking garage







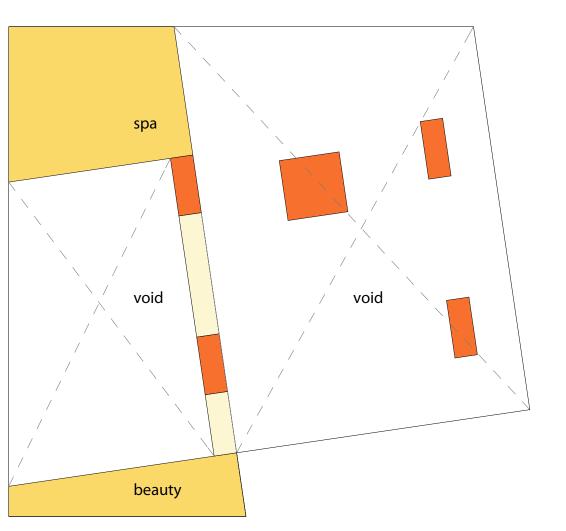


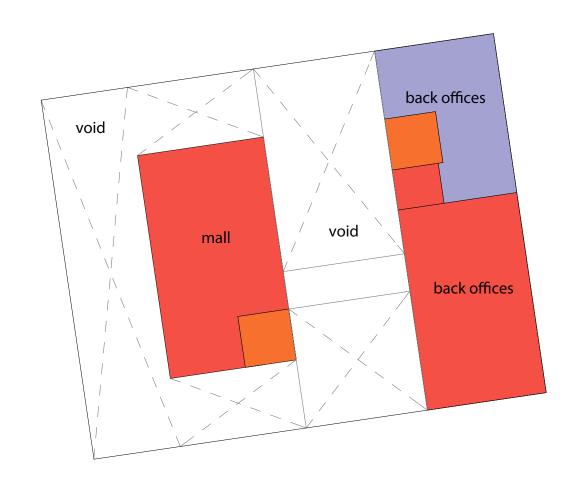
scale 1:2000

HOTEL AND BUSINESS-CENTRE BASRA SPORT CITY

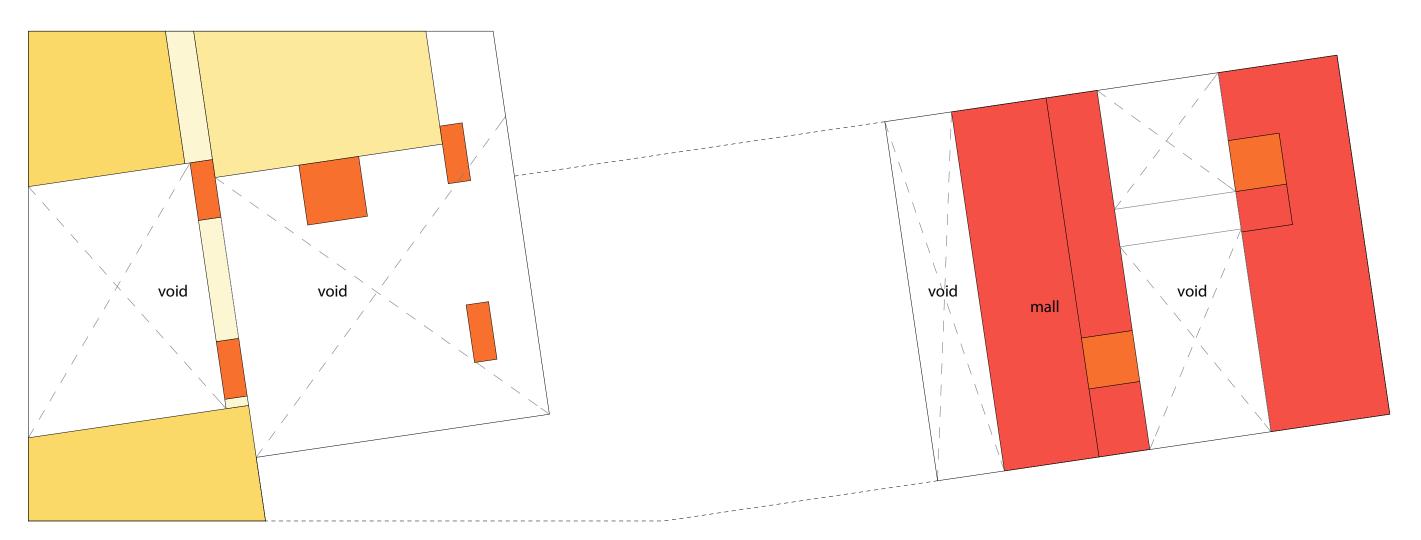
BUILDING CONCEPT

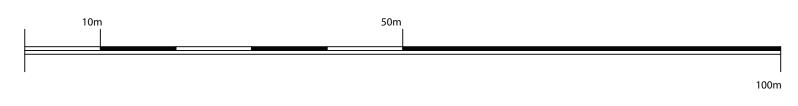
mezzanine 1





mezzanine 2



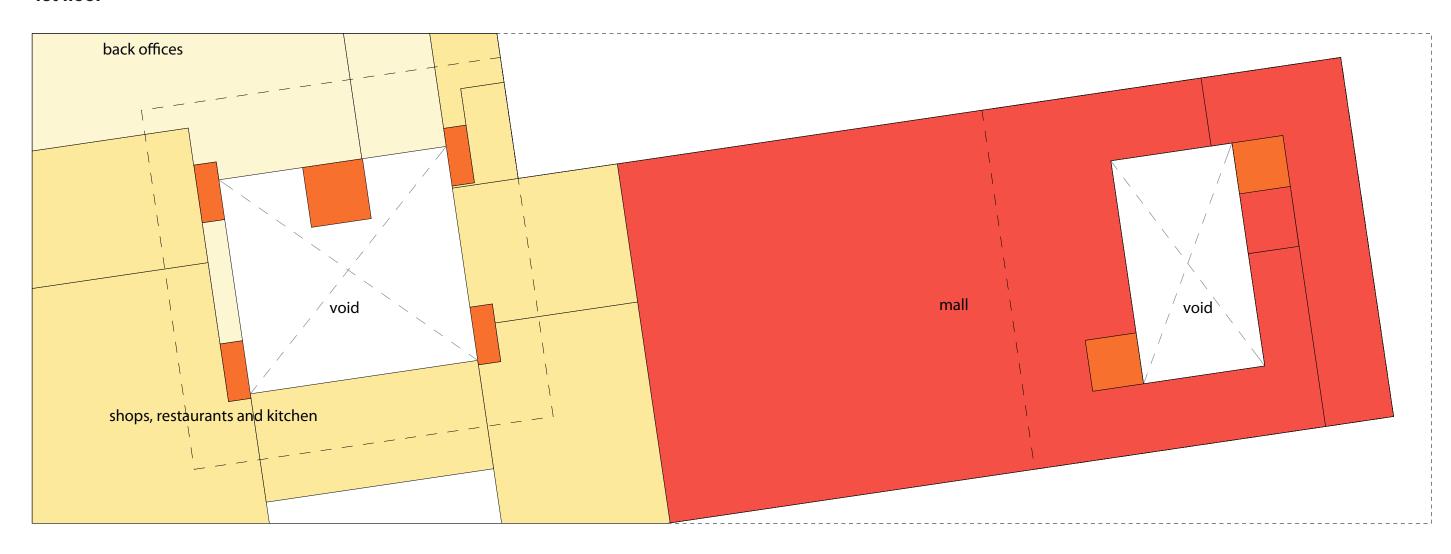


scale 1:500

4

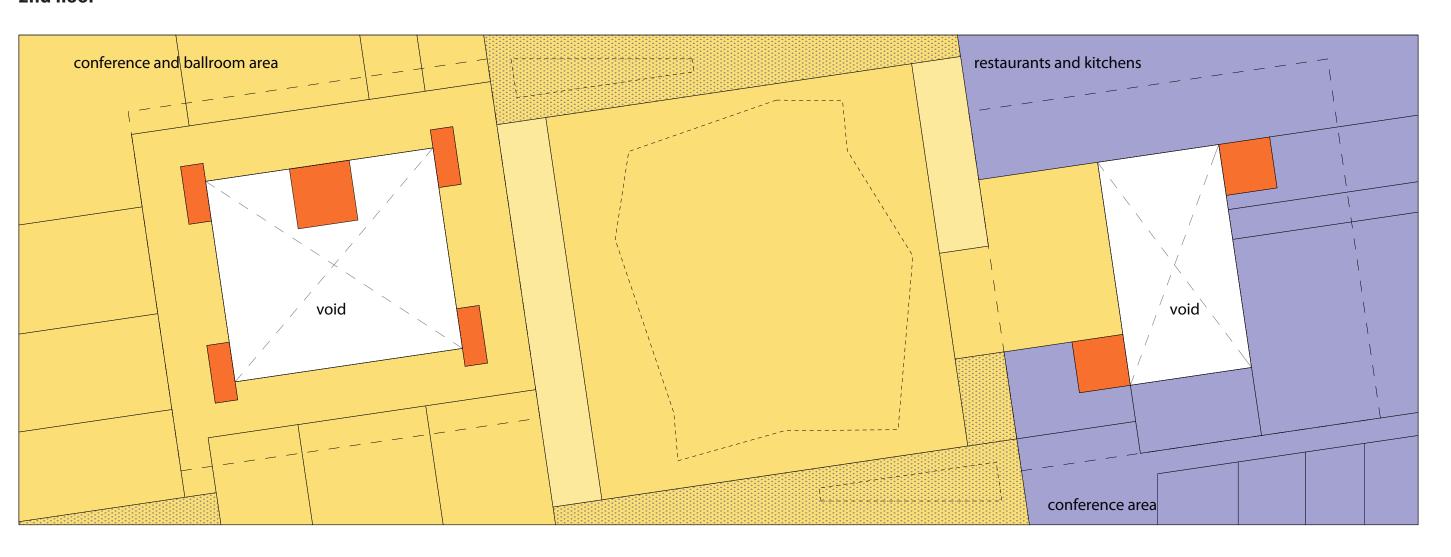
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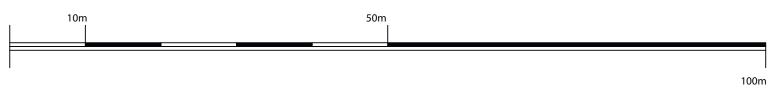
1st floor



2nd floor

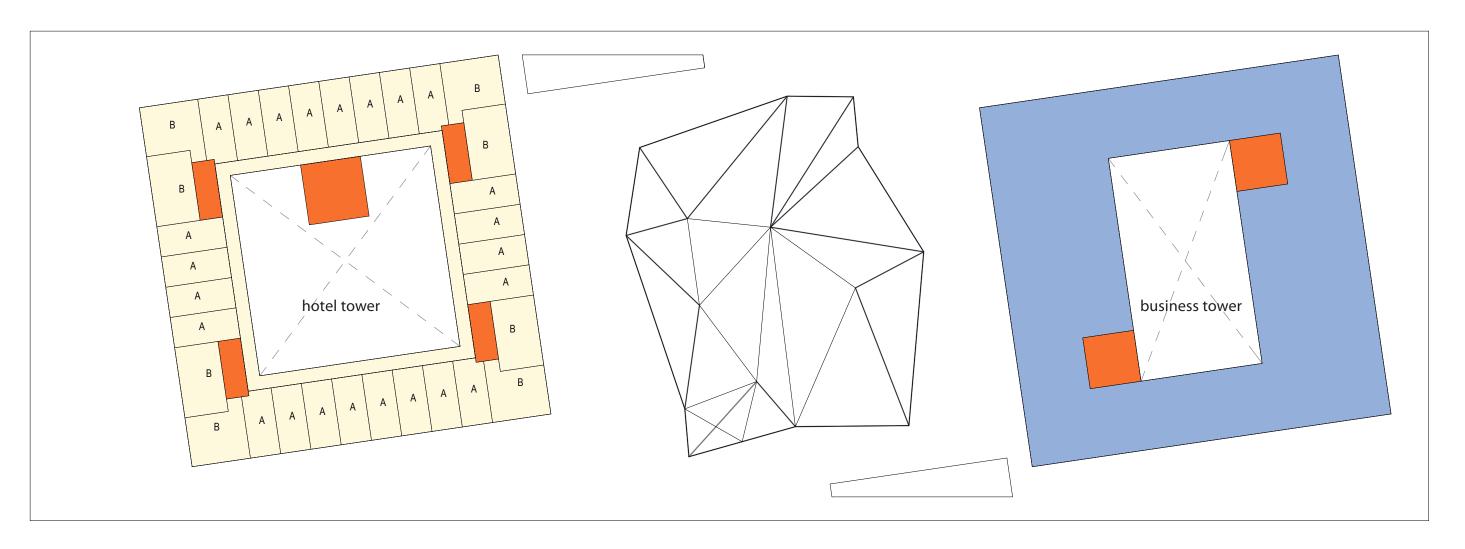
scale 1:500



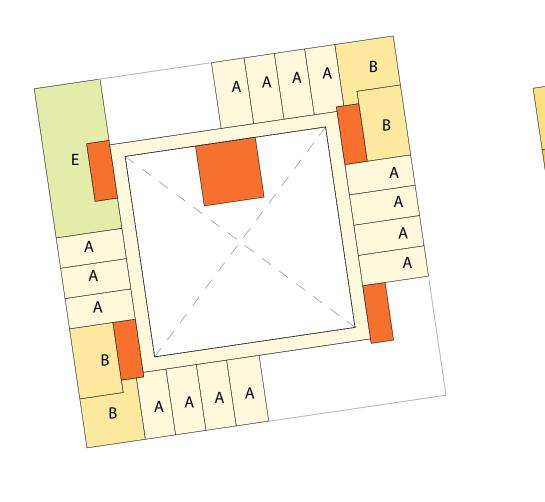


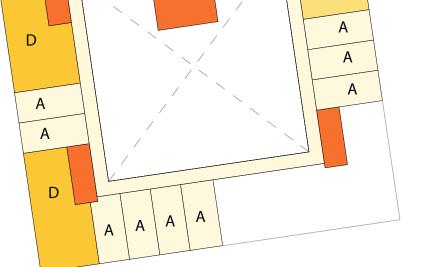
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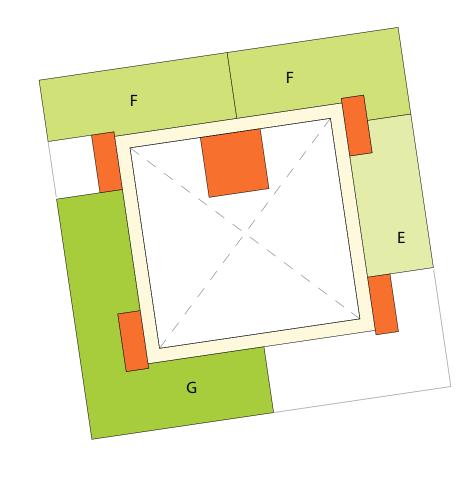
3rd floor



schematic key levels



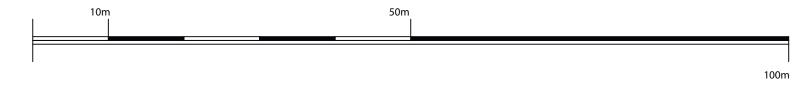




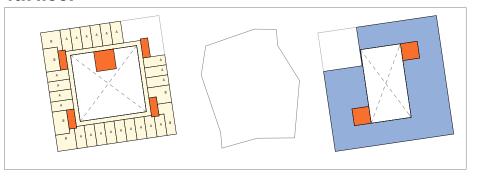
typical hotel room floor

typical hotel room floor

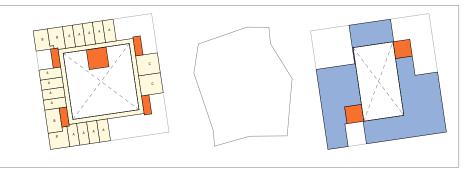
executive hotel room floor



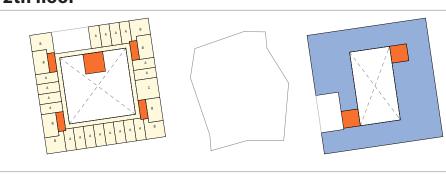
4th floor



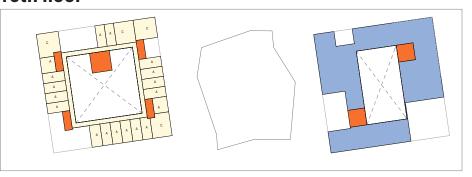
8th floor



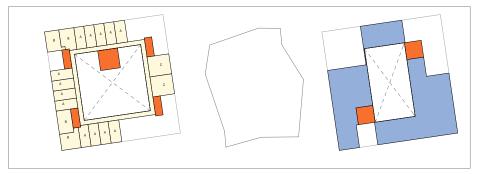
12th floor



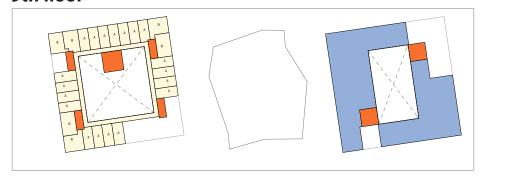
16th floor



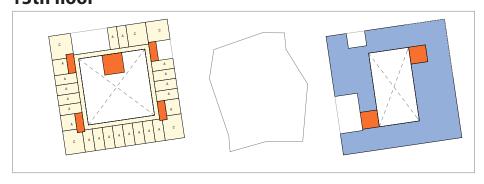
5th floor



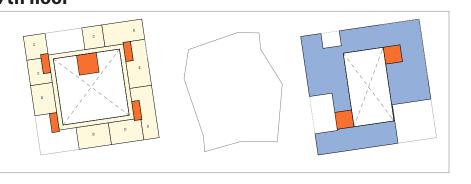
9th floor



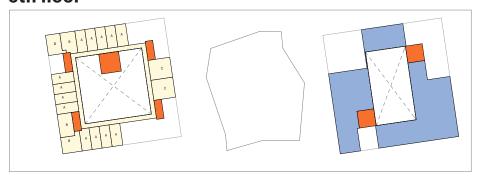
13th floor



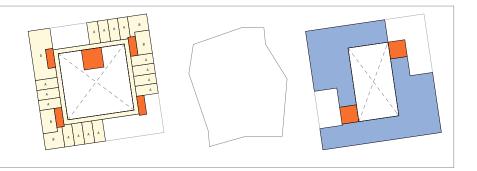
17th floor



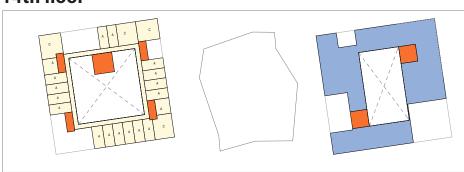
6th floor



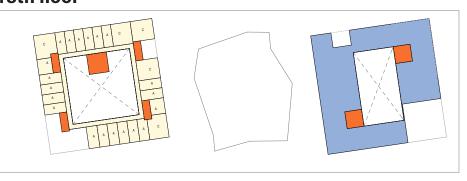
10th floor



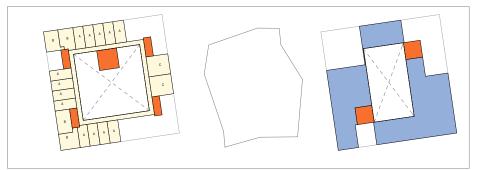
14th floor



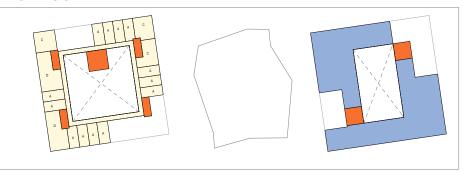
18th floor



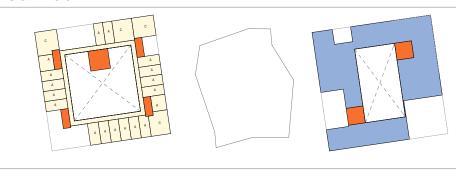
7th floor



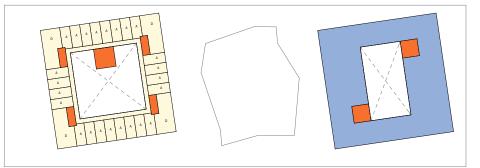
11th floor



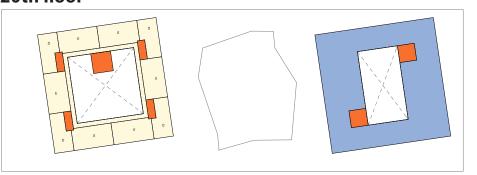
15th floor



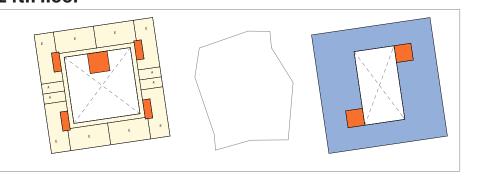
19th floor



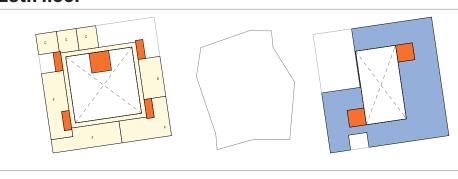
20th floor



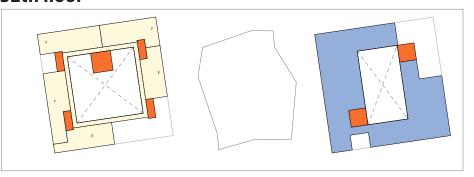




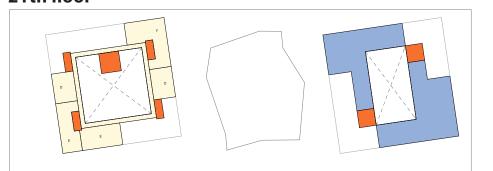
28th floor



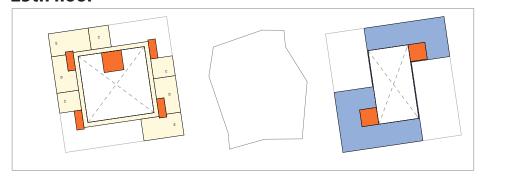
32th floor



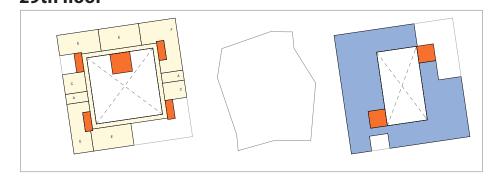
21th floor



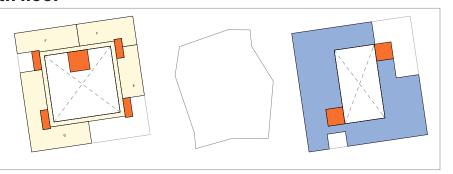
25th floor



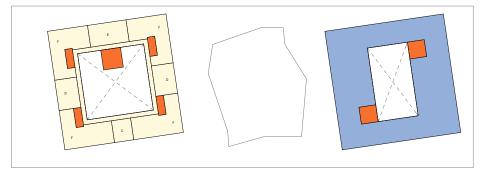
29th floor



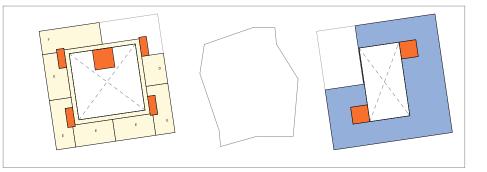
33th floor



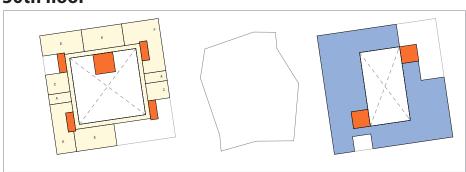
22th floor



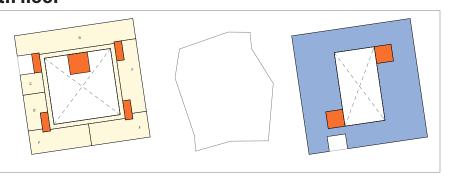
26th floor



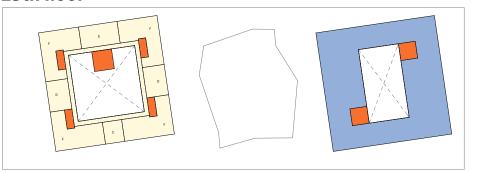
30th floor



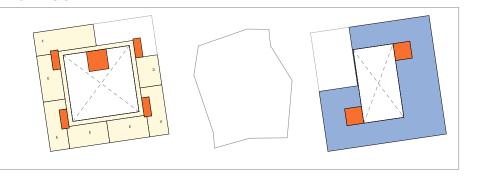
34th floor



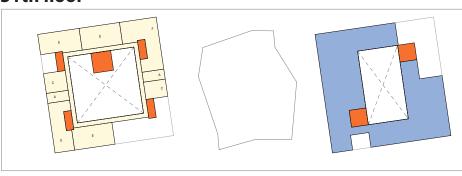
23th floor



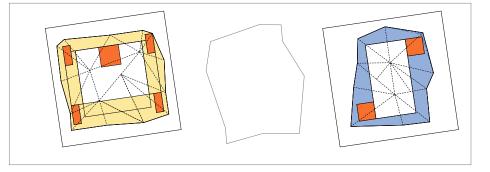
27th floor

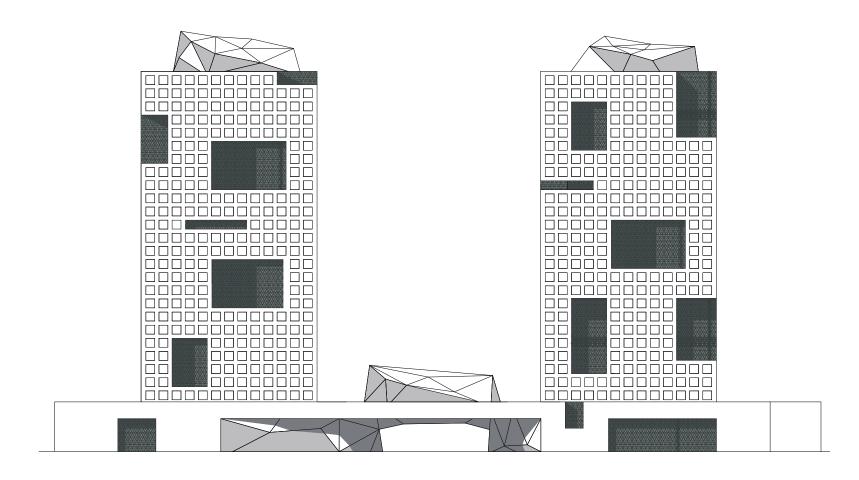


31th floor



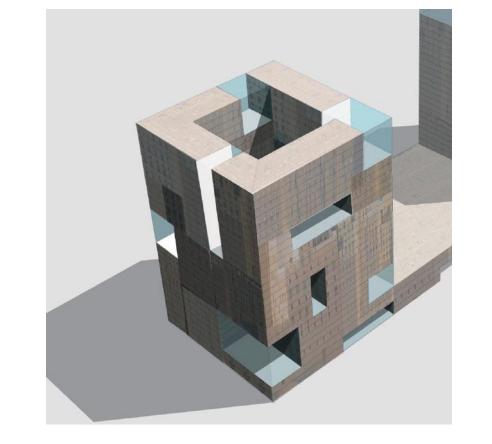
35th floor



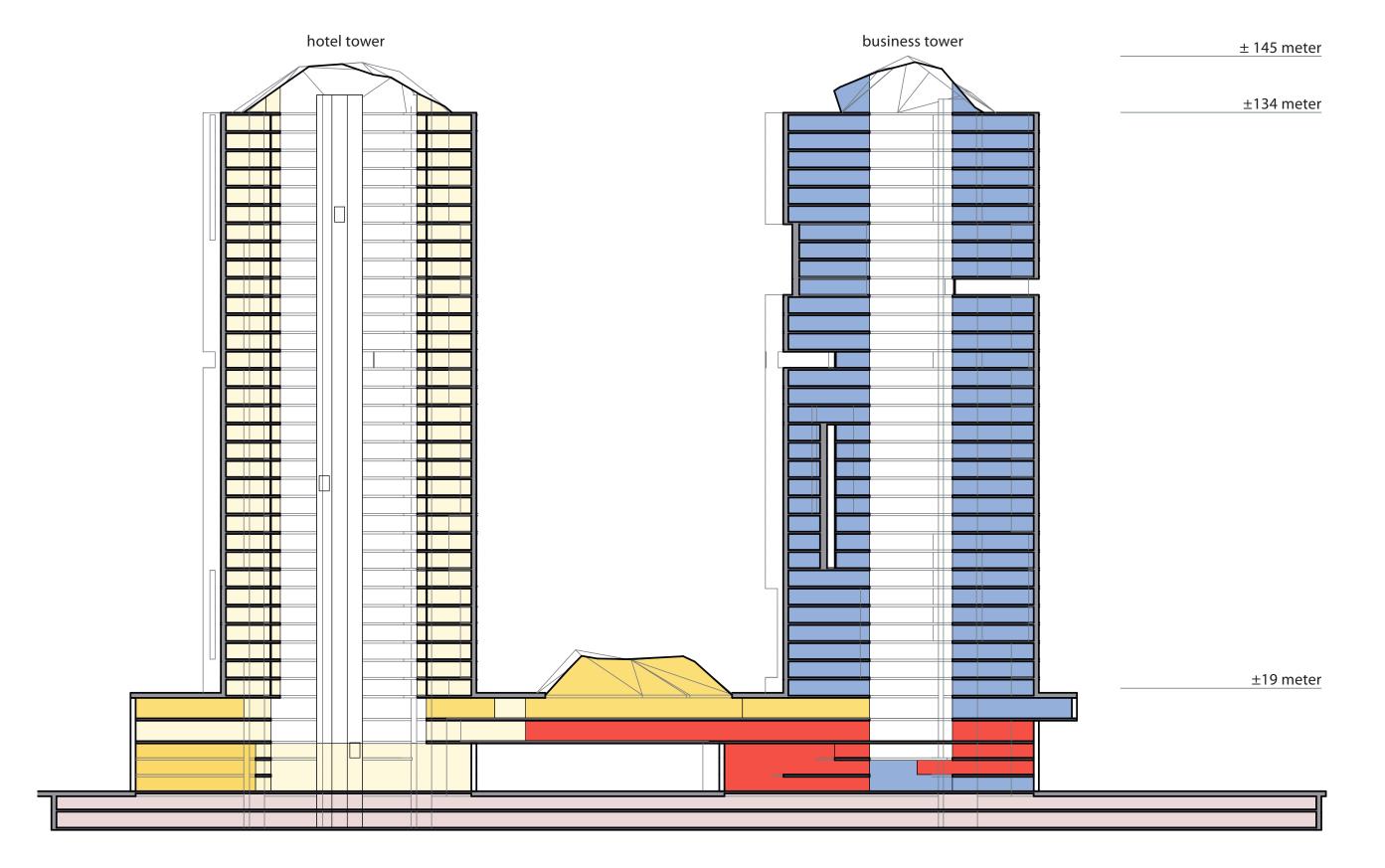












images and spheres of the building cross-section



REFERENCES

REFERENCES

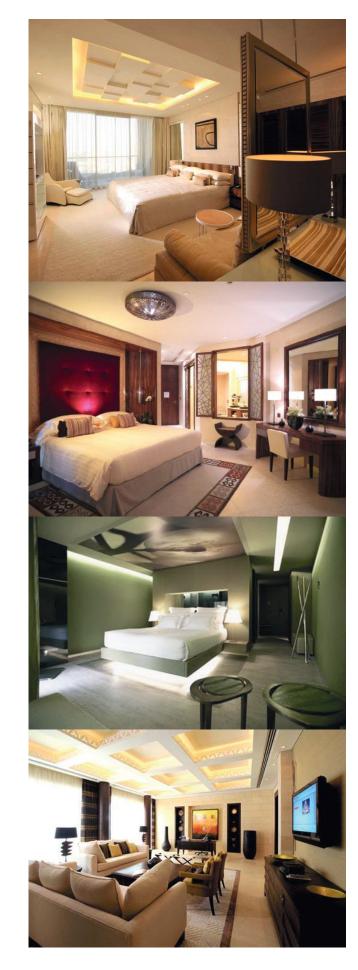














Typical and unique guestroom layouts Guestroom plans. (A) Economy queen room, 220 ft² (20.5m²) save space with sink/vanity outside bathroom and one bed. (B)Mid-scale king room, 320 ft² (30m²) shows how placing the bad against the bathroom wall increases useable space. (C) First-class double room, 365 ft² (34m²) with typical furnishings. (D) Three-bay conference suite, 1.160 ft² (180m²) combines a two-bay public area with wall-bed, lounge seating, work area, full bathroom and wet bar with a typical guestroom, and second connection room. (E) Luxury resort room 550 ft² (51m²) introduces five-fixture bathroom and fireplace (Four Seasons, Scottsdale). (F) International luxury guestroom, 530 ft² (49m²) features carefully detailed built-in storage, sliding doors, and glass partitions for an open effect (Park Hyatt, Hamburg). (G) Luxury casino-hotel room, 665 ft² (62m²) features large bathroom, queen-queen beds, and separate living area (the Venetian, Las Vegas). (H) Rotated room configuration, 530 ft² (49m²) places whirlpool tub on the exterior wall of spacious bathroom and features unusually wide guestroom space (The Ritz-Carlton Millenia, Singapore).

























offices



















HOTEL AND BUSINESS-CENTRE BASRA SPORT CITY





















SUSTAINABILITY

HOTEL AND BUSINESS-CENTRE BASRA SPORT CITY

SUSTAINABILITY

VISION ON SUSTAINABILITY

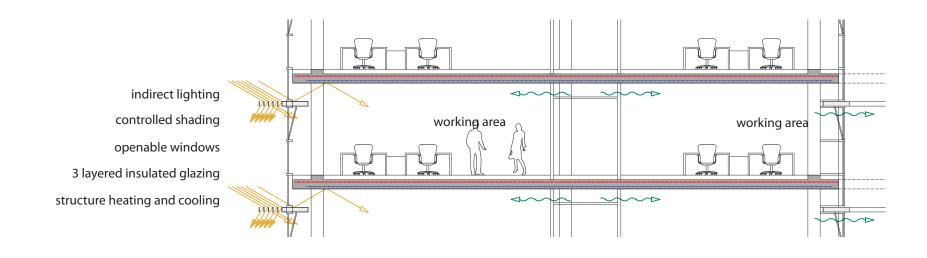
We are acutely aware that architecture is more than making a building. The building will always be part of the public space. By its dimensions and materials it has effect on the different scale levels of its surroundings. We deal respectfully with the existing qualities of the context. The location and its history are an important source of inspiration for the design. We are not interested in a certain 'form for form'; our designs are always inspired by function, location and perception. In our ambition we strive for a high degree of functional, social and aesthetic sustainability. A building that owns a timeless beauty, at the same time fits beautiful in its urban context and also possesses a high degree of future flexibility, we consider much more sustainable than a building given attention to the sustainability use of materials alone.

Aware of the qualities of the site, we carefully study function, orientation, perception, views and the use of sunlight. After this, focused on the commission, specific projects are designed in clear concepts with optimised typologies. Within available budgets, administrative possibilities and our social responsibility, studies of spatial programs lead to clear sustainable concepts. The welfare of the occupants for us always prevails. Our architecture is characterized by the use of daylight and space. A thoughtful layout, taking into account the right perception and sun lighting enhance the value for the occupants.

Terms such as sustainable energy, heat pumps, green roofs and intelligent building are important components of the formulation of professional approach. With thoughtful installation concepts, we eliminate the CO2-emissions and the use of fossil fuels and at the same time raise the comfort.

Bright durable materials and colours enhance the expressiveness, spare the environment and respect the maintenance budget of our client. We attempt a certain restraint and do not opt for redundant effects. Spaciousness, high quality materials and composition of the façade and mass will give our architecture a certain purity and timelessness.





AMBITION ON SUSTAINABILITY

Our aim is to realize a Hotel and Business-Centre that is using fossil resources at a minimum. We emphasize the use of sunlight. Heating and cooling of modern buildings use less energy these days, so the share of the lighting is playing a substantial role in the total energy use (sometimes up to 40% of the total).

The building will (if the location is suitable) generate it's own energy and store it in the ground, where it will be available on demand. Solar panels can take care of the additional demands for energy.

It will not be the use of a single technology, but the sum of the technologies we propose which will be used in an advanced and efficient combination that will make the difference. Most of these technologies are already very common in contemporary building engineering.

In the slabs we propose structure cooling and heating: in the lower part cooling and in the upper part low temperature floor heating. Above the concrete structure in the false floor (15 cm) is room for all the other installations needed. So ventilation, electricity, data cables will be out of sight and always reachable. This position of the installation gives the opportunity for the flexible arrangement of the offices for example.

Via the floors we bring in fresh air. The used air will automatically flow by overpressure to the atrium. The cooling and heating of the atriums will cost no additional energy this way. On top of the atrium the air will leave the building. Before doing so the heat or cold of this air will be re-used for heating or cooling the fresh air we bring in.

The structural solution of the complex is monolithic reinforced concrete or prefab; pillar framed (grid raster: 8,1m x 8,1m) flat floor structure, where the walls of internal vertical transport blocks ensure bracing. During the distribution of the structure the possibility of the optimal arrangement of offices, hotel rooms and the distribution of parking lots and service roads is considered.

On the scale of this project saving floor heights is very interesting both in economical and ecological aspects. Considering the possibility of using less structure in combination with maximum use of space and flexibility we like to propose a floor system with a minimum height. This will also save a lot of costs on the facades: often one of the most expensive elements of a building. The reducing of the slab height will enable us to make the maximum numbers of floors. So the building height can be reduced and at the same time the inner space can be optimised. The rooms can be minimum of 3 meters height.

Thanks to the glass-roof the complex is extremely light. The large-scale of natural light creates a pleasant environment all year round. The panels of the glass-roof can have integrated solar cells. These take part in the utilization of solar energy and the shading of the space below as well.

The underground parking garage makes the lot partly unavailable for direct penetration of rainwater. Although the climate is very dry for an effective and environmental friendly HVAC system we like to integrate extensive green roofs on top of the building. When it is raining these roofs will hold storm water, which can be re-used for watering the green in the atriums. The rest will be send to the sewerage with delay not to overload the drain system at that moment.

The façade will be engineered for the extreme climate. To keep the heat out and let the filtered light in a double façade system with glass and possible green will give the building its unique appearance.

FACTORS TO BE TAKEN INTO CONSIDERATION

- Surroundings and location
 (Basra Sport City, plot orientation)
- · Water efficiency (e.g. usage of rainwater)
- Energy and Atmosphere
 (renewable energy sources)
- · Construction materials (glazing, slab construction...)
- · Indoor climatic conditions and health
- · Innovation process: management
- · Mobility (easily accessible area)









INDOOR ENVIRONMENTAL QUALITY GOALS, WORKING ENVIRONMENT

Relationship between productivity and working environment

Influence factors:

- · Temperature: the productivity is the best between 20-25 °C
- Number of work desks per office-room has influences on the efficiency
- Dirty ventilation and air-co filters reduce the productivity by 8 %
- · High humidification reduces the productivity by 3 %
- Recirculation of the used air reduces the productivity by 2,5%
- Emission of chemical gasses reduces the productivity by 5 %
- No openable windows decreases the productivity by 2 %
- · Orientation of the office spaces:
 - in summer the productivity is 3 % higher in north oriented offices
- Personal control of temperature increases the productivity by 5-15%
- A console to control the temperature, air speed and fresh air improves the productivity by 12,5 %









What people like:

- High heat-preserving capability of partition walls and ceilings (heavy walls and slabs without suspended ceilings)
- Temperature sensation of the office-staff: people prefer higher temperature (heating) by foot, lower temperature (cooling) by head
- · In winter the higher surface-temperature of floors, walls and furniture compensates the lower air temperature
- In summer the lower surface-temperature compensates the higher temperature of the air.
- Openable windows
- Personal control of temperature, air speed and fresh air

SUSTAINABILITY

ENERGY AND ATMOSPHERE GOALS

- · Architectural goals: flexible usage of surfaces (floors, walls, ceilings)
- Efficient installation systems (HVAC: Heating, Ventilation and Air-Conditioning)
- Usage of sustainable energy, natural sources

DESIGN

- Windows: insulated 3 layer-glass (Uw < 1,1 W/m2K)
- Outside walls: insulated cavity walls (Uw < 0,25 W/m2K)
- Position and orientation of the building
- Energy-save, economical equipments: computers, lighting (led-lighting) etc.
- Usage of glass surfaces in the elevation, to get more indirect daylight
- · Shading with light control function to get less direct sunlight

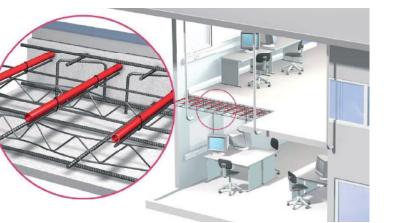
SUSTAINABLE ENERGY, NATURAL SOURCES

- Warm and cool storage
- Solar-energy
- Wind-energy
- Usage of waste-heat energy
- Soil-energy, ground-heat











MAIN ADVANTAGES OF THE STRUCTURE HEATING AND COOLING

Low investment and operation costs

structure heating & cooling

- · Favourable building temperature profile
- · Little air flow and disturbance of dust
- No Sick-Building syndrome
- Possible use of renewable-energies and alternative cool-hot water preparation equipments

 (solar-panels, earth-heat pumps)
- Energetically optional, low temperature in the system (40°C)
- High quality of comfort
- Free use of the floor space by integration of the heating in the concrete floor (floor, wall, ceiling without equipments)
- · Rugged, long-lived







CONCEPT PROGRAM

HOTEL AND BUSINESS-CENTRE BASRA SPORT CITY

CONCEPT PROGRAM

01. The methodology of the defining of the concept program

1. step: determining the proportion of the main functions and the services / other functions.

Hotel:

about 60% main function (hotelrooms / housemaid rooms / corridors on the upper floors) about 40% other function (entertainment / service / operation)

Office:

about 85% main function (office areas with wet zones) about 15% other function (service and operation)

Mall:

Our first area calculation for mall function is 8.500 sqm.

- **2. step:** defining of the function-groups and the proportion of them.
- **3. step:** checking the proportion by advisors modifing the data
- **4. step:** determining the areas of the rooms, according to the proportion of the function-groups.

02. The function-groups with the proportions

Hotel					
sign of function-groups	function-groups	gross area (m²)	proportion		
h-1	hotelrooms & housemaid rooms & corridors	40120	62,4%		
h-2	vertical circulation	3200	5,0%		
h-3	common spaces for guests, entrances, foyer	2900	4,5%		
h-4	restaurants, bars	2600	4,0%		
h-5	conference spaces	7070	11,0%		
h-6	service areas (kitchens, storages, laundryetc.)	2250	3,5%		
h-7	administration (direction, back officeetc.)	643	1,0%		
h-8	installation, electricity	2500	3,9%		
h-9	shops, entertainment, casino, sport functions	3022	4,7%		
	total gross area of hotel functions without garage	64.305	100,0%		
1.40		4 4000	T 1		
h-10	parking garage (on the -1 and -2 underground floor)	14200			
h-11	outside parking and landscape	7200			

	Office		
sign of function-groups	function-groups	gross area (m²)	proportion
0-1	office area, wet zones	48960	81,9%
0-2	stairs, elevators, storages	1545	2,6%
0-3	common areas (hall, lobby, reception)	1170	2,0%
0-4	restaurants	1841	3,1%
o-5	conference spaces	2972	5,0%
o-6	service areas (kitchens, storagesetc.)	530	0,9%
o-7	other functions (operation, library, post etc)	410	0,7%
0-8	installation, electricity	2340	3,9%
	total gross area of office functions without garage	59768	100,0%
0-8	parking garage (on the -2nd underground floor)	27500	
0-9	outside parking and landscape	3300	

Mall					
sign of function-groups	function-groups	net area (m²)	proportion		
m-1	common customer places	6800	80,0%		
m-2	storages	680	8,0%		
m-3	employee's function, administration	425	5,0%		
m-4	installation, electricity	595	7,0%		
	total gross area of mall function without garage	8500	100,0%		
	Toutette word to a good boards on a	4700			
m-5	outside parking and landscape	4700			

03. Detailed area calculation

Determining the areas of the rooms in the hotel.

	Hotel			
		pieces	m2/pc	total m2
h-1 A	double room	300	36	10800
h-1 B	executive room	50	54	2700
h-1 C	suite	50	72	3600
h-1 D	executive suite	25	108	2700
h-1 E	double suite	50	144	7200
h-1 F	executive double suite	25	216	5400
h-1 G	presidential suite	2	400	800
h-1	maid room (room service)			
h-1	storages for linnen, vending, ice	32	16,25	520
h-1	storages for cleaning			
h-1	corridors			6400
h-1	total			40120
		<u> </u>		
h-2	elevators, stairs for guests			2400
h-2	elevators, stairs for staff			800
h-2	total			3200
h-3	hotel entrance			100
h-3	lobby			1000
h-3	reception			400
h-3	wifi, silence areas, private rooms for business			500
h-3	audio/visuals, ICT			400
h-3	public toilets (lobby, restaurant, bars)			500
h-3	total			2900
		•	•	•
h-4	restaurant1 (300 people)			800
h-4	restaurant2 (200 people)			450
h-4	bar (100 people)	2	75	150
h-4	restaurant 3 Sky deck (200 people)			600
h-4	club (400 people)			600
h-4	total			2600
h-5	conference room 1 (300 people)	6	250	1500
h-5	conference room 2 (100 people)	4	150	600
h-5	conference room 3 (50 people)	2	60	120
h-5	ballroom			2500
h-5	break out	12		1200
h-6	cloakroom	12		150
h-5	terraces			1000
h-5	total			7070

Deter	mining the areas of the rooms in the hotel.			
h-6	catering, kitchen, storages for restaurant 1			400
h-6	catering, kitchen, storages for restaurant 2			250
h-6	catering, kitchen, storages for restaurant 3			250
h-6	catering, kitchen, storages for bars			100
h-6	loundry and storage			210
h-6	furniture storage			100
h-6	employee's restroom + lockers			300
h-6	employee's break room			100
h-6	first aid			40
h-6	expedition			150
h-6	corridors			350
ո-6	total			2250
h-7	director's office	1		70
h-7	administration	5	45	225
h-7	meeting room	2	30	60
h-7	back office	3	50	150
h-7	monitoring	1		66
h-7	corridors			72
n-7	total			643

h-8	total	25	00
h-8	workshop	20	00
h-8	electricity	4(00
h-8	installations - cooling	55	50
h-8	installations - heating	50	00
h-8	installations - ventilation	85	50

	•		
h-9	total		3022
h-9	lockerrooms		372
h-9	beauty		250
h-9	massage, fitness		400
h-9	Spa, swimming pool		1600
h-9	shops		400

ĺ	h-10	total			14520
	h-10	hotel parking garage	528	27,5	14520

total gross floor area of the hotel function	78825

h-11	outside parking		800
h-11	taxi, bus parking		800
h-11	outside spa		3000
h-11	roads, garden		2600
h-11	total outside area of the hotel		7200

HOTEL AND BUSINESS-CENTRE BASRA SPORT CITY

Determining the areas of the rooms in the office-part.

	Office			
		pieces	m2/pc	total m2
o-1	office areas			47585
o-1	wet zones			1375
o-1	total			48960
	·			
o-2	elevators, stairs			585
o-2	storages			960
o-2	total			1545
o-3	office entrance			100
o-3	lobby			505
o-3	receptions			245
o-3	public toilets			160
o-3	communiaction center			160
o-3	roofterrace			
o-3	total			1170
o-4	restaurant1			900
o-4	restaurant2			650
o-4	public toilets for restaurants			291
o-4	total			1841
0-5	conference room	4	80	320
0-5	break out	4		260
0-5	cloakroom	4		60
0-5	terraces			200
o-5	total			2972
0-6	catering, kitchen, storages for restaurant 1			180
0-6	catering, kitchen, storages for restaurant 2			100
0-6	storages for cleaning stuffs			80
0-6	expedition			30
0-6	employee's restroom + lockers			60
0-6	employee's break room			20
0-6	first aid			20
0-6	corridors			40
o-6	total			530
o-7	post			61
o-7	operation rooms			90
o-7	monitoring			160
o-7	back offices	3	33	99
o-7	total			410
0-8	installations - ventilation			1000
0-8	installations - heating			300
o-8	installations - cooling			600
o-8	electricity			340
o-8	workshop			100
o-8	total			2340

o-9 parking garage

total gross floor area of the office function

o-9 total

27500

87268

1000 27,5 27500

Determining the areas of the rooms in the office-part.

o-9	outside parking		650
o-9	taxi		650
o-9	roads, garden		2000
o-9	total outside area of the office function		3300

Determining the areas of the rooms in the mall.

Mall			
	pieces	m2/pc	total m2
customer space			4800
buffets			975
restaurants			525
bars			300
public toilets			200
total			6800
	customer space buffets restaurants bars public toilets	customer space buffets restaurants bars public toilets	pieces m2/pc customer space buffets restaurants bars public toilets

m-2	storages		680
m-3	administration		275
m-3	employee's restroom + lockers		75
m-3	employee's break room		75
m-3	total		425

m-4	total	595
m-4	electricity	50
m-4	installations - cooling	200
m-4	installations - heating	145
m-4	installations - ventilation	200

total gross floor area of the mall function	8500

m-5	outside parking		3000
m-5	roads, garden		1700
m-5	total outside area of the mall		4700

04. Total gross floor areas

gross floor area of the hotel function gross floor area of hotel parking garage		64305 14520
total gross floor area of the hotel function		78825
gross floor area of the office function gross floor area of hotel office parking garage total gross floor area of the office function		59768 27500 87268
total gross floor area of the mall function		8500
total gross floor area of the building-complex (sqm)	174593	
terrain hotel function terrain office function terrain mall function		7200 3300 4700
total terrain gross area outside the complex		15200



COST CALCULATION

CONCEPT COST CALCULATION

Initial approximation of the overall construction costs based on the estimated concept program in gross area in square meters.

Parking and technical installations:

- 23.400 m² parking garage level –2;
- 18.500 m² parking garage, 4.900 m² installations level –1.

5 star hotel:

- 6.200 m² ground floor and mezzanine (common spaces for guests, entrance, lobby, restaurant, bar, kitchen, storages, administration, shops, spa, swimming);
- 3.900 m² first floor (shops, bars, club);
- 7.800 m² second floor (ballrooms and conference etc. inclusive of terraces);
- 43.900 m² tower in 32 floors (34.300 m² room area + 6.400 m² corridors + 3.200 m² elevators, stairs).

Mall

- 3.500 m² ground floor and mezzanine (2.000 m² + 1.000 m²);
- 5.000 m² first floor.

Business centre (offices):

- 1.700 m² ground floor and mezzanine;
- 300 m² first floor (operation, back offices);
- 2.600 m² second floor (conference etc inclusive of terraces);
- 52.800 m² tower in 32 floors (32 x 1.560 m² gross office space and 90 m² circulation space).

Terrain

- 7.200 m² hotel site (entrance roads, parking, gardens, outside pools and recreation);
- 8.000 m² business site (entrance roads, parking for the mall, garden).

Please notice this is a first rough estimation of the hard cost and subject to changes with the plan being in progress and in need of updating in every step.

Not included in the hard cost at this moment:

-infra, terrain, swimming pools, wetzones, interiors and unsuspected costs.

The overall construction costs refer to a modern West European building with a modern Middle East interior and finishing.

Costs can easily vary much depending on local influences, the desired level of design and workmanship. Also the building method, technics and choosen materials will influence the costs. The difference can be big between local and imported materials and knowlegde.

Not included are the soft cost such as:

- fees;
- permit cost;
- taxes;
- advisors.



COST CALCULATION

10099 TOTAAL COMPLEX RECAPITULATIE

PROJECTNUMBER: 10099
NAME: TOTAA

AME: TOTAAL COMPLEX
LIENT: Roeleveld-Sikkes Architects
ASE: CONCEPT DESIGN-PROGRAM

DATE OF PRICE LEVEL: 1-7-2011

UNCTION: Combination of various buildings

YPE: Parking, mall, hotel and office

SORT: New development
CHARACTERISTIC: -

UNDER GROUND: 2,00 floors
ABOVE GROUND: 35,00 floors

FOUNDATION: multi-storey parking garage, concrete
structure: concrete / steel

FACADE: double facade
FINISHING: high-grade
INSTALLATION: high-grade

GFA: Gross floor area

UFA: Usefull floor area

GBA Gross built area

GWA: Gross wall area

GCW Gross closed wall

GVO Gross volume

PROGRAM	IN	GROSS	AREA

	TOTAL COST OF CONSTRUCTION EUROPE					323.064.469	1.846,08	100,0%
	TOTAL INDIRECT CONSTRUCTION COST					68.783.108	393,05	21,3%
6.C	Special cost contractor	5,00%	over	307.680.447	15.384.022		87,91	4,8%
6.B	Generel costs and Profits / Risks	10,00%		279.709.497	27.970.950		159,83	8,7%
6.A	General requirements for contractor	10,00%	over	254.281.361	25.428.136		145,30	7,9%
6	INDIRECT CONSTRUCTION COST							•
	TOTAL EXTERNAL ELEMENTS					1.368.000	7,82	0,4%
5.A	External elements	18.988	m²	72	1.368.000		7,82	0,4%
5	EXTERNAL ELEMENTS							
	TOTAL FIXED FITTINGS					98.860	0,56	0,0%
4.A	Fixed fittings	175.000	m²	1	98.860		0,56	0,0%
4	FIXED FITTINGS							
	TOTAL BUILDING SERVICES					67.185.334	383,92	20,8%
3.D	Transport	175.000	m²	68	11.871.268		67,84	3,7%
3.C	Services mainly electrical	175.000	m²	73	12.729.560		72,74	3,9%
3.B	Services climate	175.000		180	31.511.133		180,06	9,8%
3.A	Services mainly piped	175.000	m²	63	11.073.372		63,28	3,4%
3	BUILDING SERVICES							
	TOTAL BUILDING WORKS					185.629.167	1.060,74	57,5%
2.G	Other building works	175.000	m²	5	875.000		5,00	0,3%
2.F	Finishes to structure	175.000	m²	126	22.108.342		126,33	6,8%
2.E	Secondary elements to structure	175.000	m²	81	14.124.533		80,71	4,4%
2.D	Roof and external ceilings	20.963	m²	620	12.990.386		74,23	4,0%
2.C	External walls	78.427	m²	1.090	85.513.568		488,65	26,5%
2.B	Structure, primary elements	175.000	m²	221	38.691.249		221,09	12,0%
2.A	Ground, substructure	22.000	m²	515	11.326.089		64,72	3,5%
2	BUILDING WORKS							
	COST OF CONSTRUCTION	qty	unit	€ / unit	subtotal	total	€/GFA	% total
GRA	GIOSS IOUI AIEA	20.903	111				GRA/GFA.	0,12
	Gross roof area	20.963					GOW/GWA. GRA/GFA:	0,30
COM	Gross open wall	39.213	m²				GOW/GWA:	0,50

175.000 m²

142.630 m²

526.405 m³

22.000 m²

78.427 m²

39.213 m²



UFA/GFA

GVO/GFA:

GBA/GFA

GWA/GFA: GCW/GWA:

	INTERNATIONAL BUILDING COST						
	- the above cost/expenses are a estimation for the - total cost of construction in Iraq is expected to be			•			
	INDICATION BUILDING COST IRAQ	qty	unit	subtotal	total	€/GFA	% tota
λ.	PARKING GARAGE Parking garage total 2 layers	1	pst	32.280.545		816,32	12,5
•	TOTAL PARKING GARAGE	•	pot	02.200.010	32.280.545	0.0,02	12,0
	MALL						
١	Mall total	1	pst	38.327.780		1.388,24	14,89
	TOTAL MALL				38.327.780		
	HOTEL						
A	Hotel total	1	pst	102.826.445	400 000 445	2.080,25	39,8
	TOTAL HOTEL				102.826.445		
	OFFICE						
١	Office total	1	pst	85.016.805		1.455,33	32,9
	TOTAL OFFICE				85.016.805		
	TOTAL INDICATION BUILDING COST IRAQ				258.451.575	1.476,87	100,0
	TOTAL COST OF CONSTRUCTION EUROPE				323.064.469	1.846,08	100,0
	TOTAL INDICATION BUILDING COST IRAQ				258.451.575	1.476,87	80,0

55 All cost are in Euro's.



COOPERATION

HOTEL AND BUSINESS-CENTRE BASRA SPORT CITY COOPERATION

LIST OF REQUIRED CONSULTANTS AND SPECIALISTS

Architecture:

Architect

Interior architect

Landscape architect

Design consultancy (e.g. logistics, marketing and design):

Hotel consultant

Mall consultant

Sport and Leisure consultant (e.g. pools, spa, fitness)

Engineering:

Structural engineer

Mechanical engineer

Electrical engineer

Building physics and energetic consultant

Structural expert (e.g. heat and water isolation, green roofs)

Façade expert

Project management:

Project manager

Planner

Cost control

Quantity surveyor

Site supervisor

Site surveyor

Location and Soil:

Public utility consultant

Geodesic surveyor

Soil Mechanics consultant

Earthquake specialist

Environmental consultant (in case of Environmental Impact Assessment)

Traffic consultant

Urban designer

Special techniques:

Lightning expert

Acoustic consultant

Audio-visual consultant

ICT (Information and Communication Technologies)

Elevator consultant

Building management systems (BMS)

Kitchen technology designer

Safety:

Fire protection consultant

Fire alarm engineer

Sprinkler engineer

Health insurance and safety plan

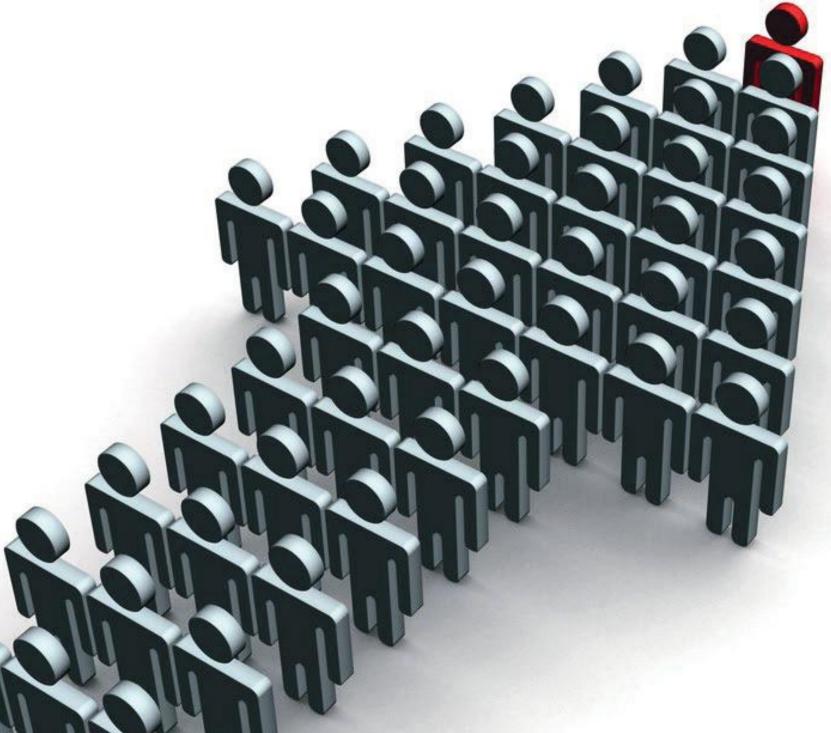
Medical technology

Promotion and Sales:

Visualisation (3D images, renderings, movies)

Real estate agent

Marketing consultant



For a successful realisation of a project like this a professional project organisation needs to be formed. Beside the architectural disciplines a serious number of professional consultants and specialist have to cooperate and be part of the team. Local and international knowledge will be joined to come to a smooth and efficient process. Realistic and professional design brief, budget and time schedule are essential ingredients to start this development. Logistics and legal factors should not be underestimated. The realisation of this Hotel and Business-Centre project will be an astonishing challenging development. With the right firms and people involved and the right understanding of goals and expectations it will be a beautiful achievement.

HOTEL AND BUSINESS-CENTRE BASRA SPORT CITY

ABOUT US

RS I ROELEVELD-SIKKES ARCHITECTS

RS I Roeleveld-Sikkes Architects is an all-round, internationally operating architectural firm with offices in The Hague and Budapest. Our firm is characterized by a careful approach to the design task and a clear vision on design strategy.

We are designing in the field of urban planning and architecture. For urban planning we make plans on different scales, e.g. for the city of Timisoara we made a master plan for the total city of 350.000 inhabitants. This plan gives a vision for the coming 20 years. Besides that we design urban plans on district scale as well. In the field of architecture we made designs for huge office buildings, retail, hotels, apartments, etc.

Our approach to come to good design is always based on a careful interpretation of the brief (design program) and a thoroughly analysis of the site. Good design provides positive internal and external planning and a building that contributes to the business or user organization, fits well into the neighbourhood, is safe to build and use, is adaptable and sustainable, has low maintenance and operating costs, attractive materials and finishes, cost effective systems and improved effectiveness for the users.

We are convinced that architecture is more than making a building. The building is always part of the public space and its size and materialization have effect on the different levels of the environment. We design with respect to the existing qualities and at the same time location and history are a source of inspiration for the design. It is not about 'form to form'; our designs are always inspired by function, location and perception.

Sustainability is on of the important components of the formula of our subject-specific concept. During the materialization we also pursue sustainable solutions. We attempt a certain restraint and do not opt for redundant effects. Spaciousness, high quality materials and composition of façade and mass are important to us, as is a certain purity of the architecture.

Although RS I Roeleveld-Sikkes Architects is a large firm, with about 40 employees, the lines in our organization are short. Our project team includes experts in designing, managing and supervision of urban and architectural plan on a big variety of scale. The professional organization of our team ensures a smooth continues process and a fine structured progress of the project. Cooperation and an enthusiastic atmosphere are highly valued, not only in internal communications. We have extensive experience in participating in design teams, in which the ability to enthuse participants is our strength. To strengthen the cooperation within a network organisation, we use a drawing system suitable for BIM. BIM is a solution that saves, uses and manages all relevant information throughout the construction process in a digital model that is available to all parties.

The quality of our work process is objectively evaluated and assessed at any time as a result of our quality control system. We therefore fulfil the European ISO-standard for process quality. Because of years of experience and expertise we are also very adept at cost aware planning and building. Over the years we have gained a lot of insight into cost consequences of choices for structural systems, detailing, materials and the finishing application level. Due to the fact that we emphasize the programmatic concept and quality of use of each design, it is possible for us to make a customized suit for each user. Our comprehensive orientation, all-round expertise and fresh approach to every task we see, enables us to constantly realize innovative and astonishing solutions.



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