

HLOUBĚTIN SQUARE REVITALISATION

SUGANDHA CHAUDHARY

ACKNOWLEDGEMENT

FINISHING THIS PROJECT WAS A ROLLER COASTER RIDE, GIVEN THE CHALLENGING SITE AND

COMPRESSED ALLOCATED TIME. I HAVE TRIED MY BEST TO DO JUSTICE TO THE AREA (OF THE

PROJECT) AND THE HYPOTHETICAL (READE EVENTUAL) USERS. THIS EXERCISE WAS HOWEVER, NOT

POSSIBLE WITHOUT THE KIND SUPPORT AND GUIDENCE OF PROF. HENRI HUBERTUS ACHTEN AND PROF.

JIŘÍ PAVLÍČEK. I WOULD LIKE TO SINCERELY THANK THEM FOR THEIR TIME, ANERGY AND CONSTANT

PUSH TO HELP ME ACHIEVE A GOOD DESIGN. I ALSO WOULD LIKE TO EXPRESS MY GRATITUDE TO

ČVUT (ESPECIALLY THE 3D PRINT DEPARTMENT, MOLAB AND MANAGEMENT) FOR PROVIDING A

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A DAY TO DAY BASE.

LAST BUT NOT THE LEAST, I WOULD LIKE TO THANK YOU, DEAR READER, FOR YOUR PRECIOUS TIME.

MASTER'S THESIS PORTFOLIO

HLOUBĚTÍN SQUARE REVITALISATION, PRAGUE, CZECH REPUBLIC

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GUIDE : PROF. HENRI HUBERTUS ACHTEN, PROF. JIŘÍ PAVLÍČEK

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FACULTY OF ARCHITECTURE

AUTOR, DIPLOMANT:

AUTHOR OF THE DIPLOMA WORK / DIPLOMA PROJECT

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TITLE OF THE DIPLOMA WORK / DIPLOMA PROJECT (IN CZECH LANGUAGE)

TITLE OF THE DIPLOMA WORK / DIPLOMA PROJECT

(IN ENGLISH LANGUAGE) HLOUBETIN SQUARE REVITALIZATION

LANGUAGE OF THE DIPLOMA WORK / DIPLOMA PROJECT: ENGLISH

Diploma Work / Diploma Project Supervisor Diploma Work / Diploma Project Opponent	Ústav: Department Dr. Henri Hubertus Achten, Prof Jiři Pavlíček
Key Words (Czech)	Hloubetin, Square, Revitalization, Public Space, School, Library,
Annotation (Czech)	The thesis focuses on enhancing the connection of Hloubetin square with public transit, and further revitalization of the same, to engage more activity. It also strives to resuffice the existing functions.
Annotation (English)	

The Author's Declaration

I declare that I have elaborated the submitted diploma work / diploma project independently and that I have stated all the used information sources in coherence with the "Methodological Instruction for Ethical Preparation of University Final Works". (The complete text of the methodological instruction is available for download on http://www.fa.cvut.cz/En)

In Prague onSignature of the Diploma Project Author

This document is an essential and obligatory part of the diploma project / portfolio / CD.

Czech Technical University in Prague, Faculty of Architecture 2/ ASSIGNMENT of the diploma project

Mgr. program navazujici

Name and Surename: SUGANDHA CHAUDHARY

Date of Both 09,12,87

Academic Year / Semester: Summer Semester 2019-20. Department Numer / Name: Diploma Project Tutor: Henri Achten, Jiri Pavicek

Diploma Project Theme: See the Application Form for DP

Assignment of the Diploma Project:

1/description of the project assignment and the expected solution objective

Holubetin Square and commercial centre is an area sitting amidst residential quarters. There is a lot of potential to this place, giving its focation and direct link with public transport, but the current situation is rather inactive. The theme of project is the redemption of the entire square and complex and convert it. to a more active and people's space, simultaneously relocating all the existing functions.

2/description of the total result, outputs and elaboration scales

SITE PLAN: 1:1000

SITE PLAN (LANDSCAPE): 1:500 - 1:1000

PLANS . 1: 200

SECTIONS, ELEVATIONS: 1: 200

VISUALISATION:

MODEL: 1:200 to 1:500

3/list of further agreed-upon parts of the project (model) and an instance of contract of the project (model).

Date and Signature of the Student 3145

Date and Signature of the Diploma Project Tutor MM

Date and Signature of the Dean of FAICTU

6.3. 2019

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ABSTRACT

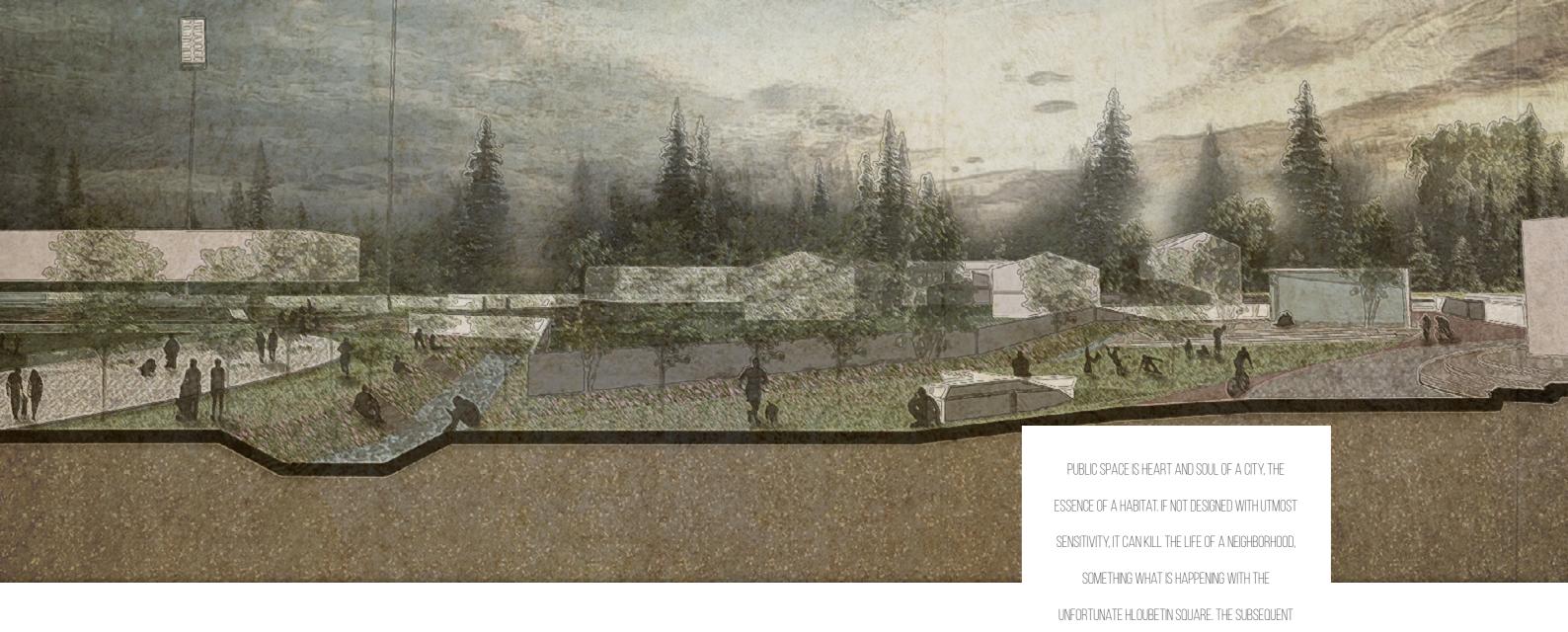
PROPOSAL

VISUALISATIONS 3

ARCHITECTURE DRAWINGS



ABSTRACT



THE PUBLIC SPACE

FIRST LIFE, THEN SPACES, THEN BUILDINGS. THE OTHER WAY ROUND NEVER WORKS. - JAN GEHL

THE ABOVE ILLUSTRATION IS THE AUTHOR'S IMAGINATION OF AN ACTIVE PUBLIC SPACE.

PROPOSAL IS A MODEST APPROACH TO INTERVENING

AND DESIGNING THE SAME.



HLOUBETIN SOUARE IS LOCATED IN HLOBETIN, PRAGUE 9, RIGHT AT THE EXIT OF METRO STATION, OF THE SAME NAME ON LINE B. THERE ARE TWO MAIN DIVISIONS, THE NORTH AND THE SOUTH. WHILE NORTH SOMEHOW WORKS, HAS A DECENT LINKAGE WITH METRO AND PROMOTES A FEW ACTIVITIES, THE SOUTH IS NOWHERE CLOSE. IT IS PRIMARILY USED BY THE RESIDENTS, WHO CROSS THE UNDERPASS, SOLELY TO REACH THEIR HOUSES.



BRIEF HISTORY

VETISKOVO SQUARE WAS FOUND IN 1972. IT WAS THE NODE THAT LINKED THE NORTH AND THE SOUTH. IN 1990, IT WAS DECLARED THAT THE PUBLIC SPACE NEITHER FUNCTIONS NOR DESIGNED AS A SQUARE AND HENCE THE NAME WAS REVOKED. SINCE THEN IT IS JUST UNOFFICIALLY CALLED AS HLOUBETIN SQUARE.



CONNECTIVITY

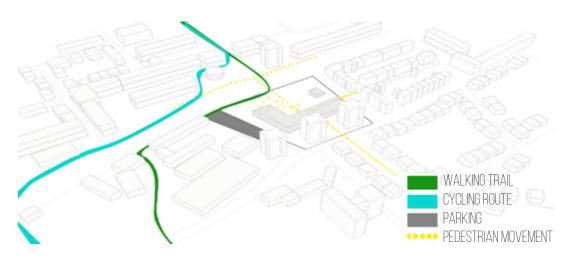
THE SITE SITS NEXT TO PODEBRADSKA STREET AND IS WELL CONNECTED WITH REST OF THE CITY BY TRAMS 16, 25, 92 AND BUSES 94, 110, 141, 259. BESIDES, IT SITS RIGHT NEXT TO THE METRO LINE B.



CONTEXT

THE HISTORY OF HLOUBETIN VILLAGE GOES BACK AS FAR AS THE 13TH CENTURY, IT WAS ANNEXED TO PRAGUE MAIN CITY ONLY IN 1922. AROUND 12,000 PEOPLE LIVE IN A ROCH AREA OF 5.5 SOKM. THE AREA IS WELL CONNECTED BY TRAMS SINCE 1970S AND LINE B SINCE 1990. THE SURROUNDING MOSTLY CONSISTS OF 4-12 HOUSING ESTATES, FROM THE 1960S, VERY SIMPLISTIC AND FUNCTIONAL BLOCKS, BUILT PREDOMINANTLY FOR SMALL TO LARGE FAMILIES.

EXISTING SCENARIO



PRIMARY ISSUES



SECONDARY ISSUES



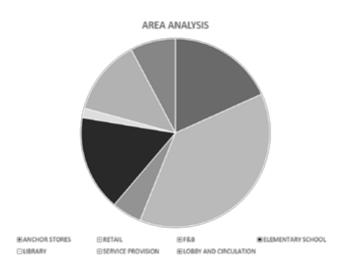
SITE ANALYSIS

DEVELOPMENT CONTROL

	SITE AREA		16274
	AREA EXCLUDING HOUSING		4350
\SIS	AREA UNDER BUILD INTERVENTION		11924
AN A	GROUND COVER (%)	60	7154
SITE ANALYSIS	Max NO OF FLOORS	12	
",	FAR	1.18	14070

EXISTING FUNCTIONS

EXISTING PROGRAM	Elementray Schhol	1345
	Library	135
	Retail	3117.5
	Service Provision	1069.5
	F&B	420
	Lobby and Circulation	637.5
	Total	6724.5



DETAILS OF FUNCTIONS

	Left Wing	Area
	Penny Market	732
	Lobby and Circulation	150
	Ceska Posta	168.75
	KB Bank ATM	33.75
	Second Hand Store	67.5
	Teta	67.5
	Laundry	67.5
	Ceska Sporitelna	135
Ground Floor	Textile Store	67.5
Ground Floor	Mini Store	67.5
	Bakery	67.5
	Pharmacy	67.5
	Lobby and Circulation	135
	Mini Store	253
	All In One Store	253
	Pepco	732
	Lobby and Circulation	150
	Kitchen Shop	67.5
	Food Shop	67.5
	Stationary	67.5
	Uniqa	67.5
	Pet Shop	67.5
	Cosmetic Shop	67.5
First Floor	Ceska Pojistovna	67.5
	Optics	135
	Clocks, Jwellery	67.5
	Studio Anika	67.5
	Bulgarian Shop	67.5
	Nail Studio	67.5
	Library	135
	Laundromat	135
	Lobby and Circulation	67.5
	Dental Centre	366
Casand Flags	Real Estate	366
	Lobby and Circulation	150
Second Floor	Elementary School	1345
	Lobby and Circulation	67.5

SHADOW ANALYSIS







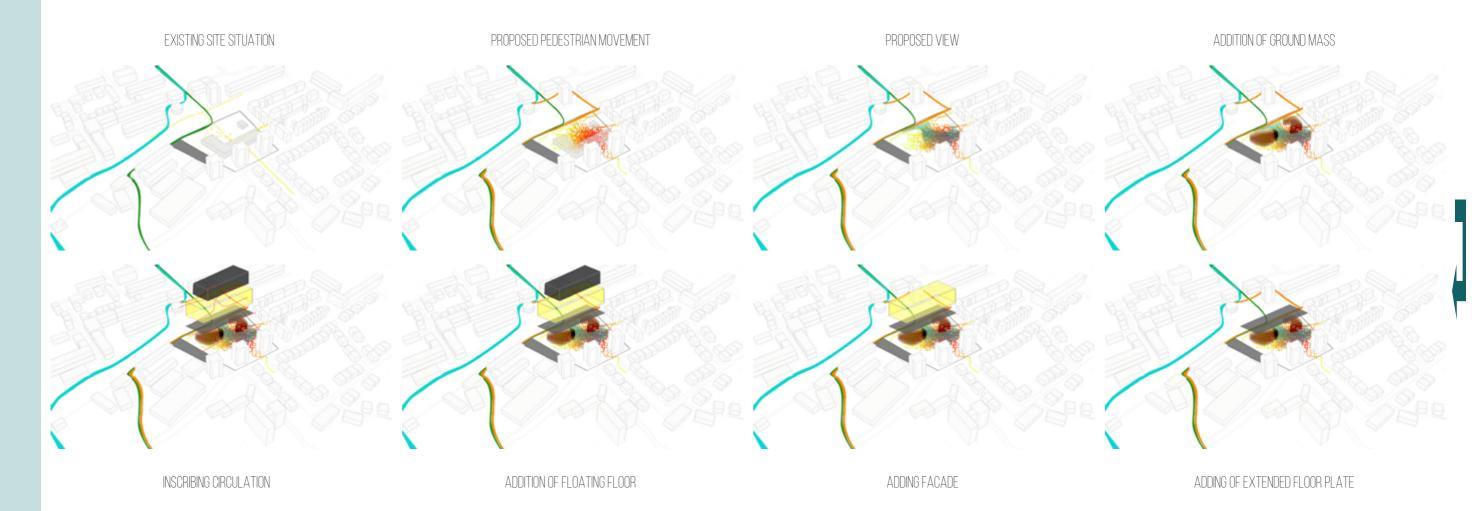


HLOUBETIN AND THE FUTURE



THE AIM OF THE PROJECT IS TO INTERVENE THE TRAFFIC ISLAND OF HLOUBETIN SQUARE, TREAT IT AS THE MAIN NODE OF THE RESIDENTS, WHO NOW DEPEND ON CERNY MOST FOR MOST OF THEIR NEEDS.. A NEW SQUARE COMPLEX IS PROPOSED TO ENHANCE ACTIVITY, VISIBILITY, CONNECTIVITY AND LIVEABILITY FOR THE RESIDENTS OF SÍDLIŠTĚ HLOUBĚTÍN BY..

THE DESIGN PROCESS IS CARRIED OUT BY IDENITIFYING ISSUES OF THE SITE ITSELF AND THE SURROUNDING, PROPOSE AN INTERACTIVE GROUND LEVEL PUBLIC SPACE AND FURTHER DEVELOPING THE UPPER FLOORS TO SUFFICE EXISTING AS WELL AS SUPPORTIVE FUNCTIONS FOR THE SUBSEQUENT GROUND LEVEL.





AREA AND CIRCULATION

ACHIVE FAR AND COVERAGE

PRPOSED DEVELOPMENT CONTROL	SITE AREA		16274
	AREA OF HOUSING		4350
N C	AREA UNDER BUILD INTERVENTION		11924
OPME	GROUND COVER (%)		53%
DEVEL	Max NO OF FLOORS	4.5	
OSED [FAR ACHIEVED	1.18	0.84
PRP			

ACHIEVED AREA (FLOOR WISE)

LOWER GROUND FLOOR	550
GROUD FLOOR	2050
FIRST FLOOR	2500
SECOND FLOOR	2430
LOBBY AND CIRCULATION	2500
TOTAL WITHOUT PARKING	10030
BASEMENT (lower ground)	1600
BASEMENT	1600
TOTAL	13230

ACHIEVED AREA (FUNCTION WISE)

PRPOPOSED PROGRAM	Elementray Schhol	2030
	Library	1200
	Retail + Service	4000
	F&B	900
	Parking	3200
	Lobby and Circulation	2700
	Total witout parking	10030

27% 0.84

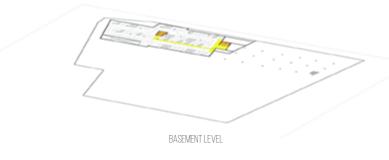
PARKING PROPOSAL

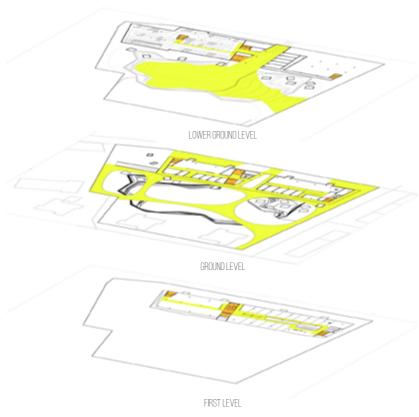
REQUIRED PARKING		Parking / area
Library	1/120 SQM	10
School	1/300 SQM	7
Commercial	1[40SQM	123
TOTAL		139
PROPOSED PARKING		149

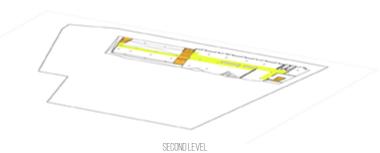
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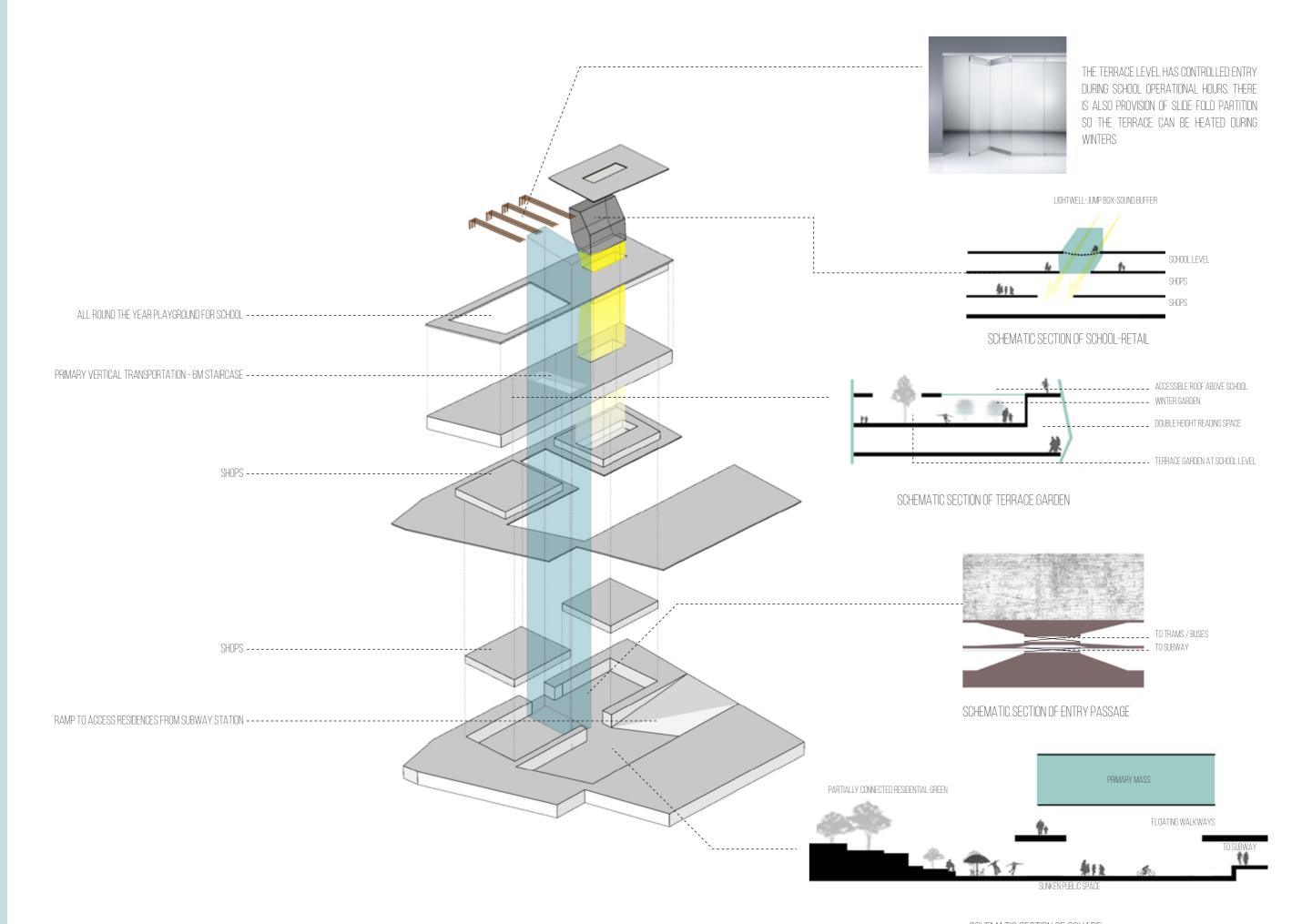
Visitor		Non Visitor
	2	3
	2	5
	12	110
	16	123
	15	134

PRIMARY CIRCULATION STRATEGY: SIMPLE MOVEMENT





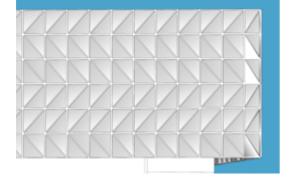




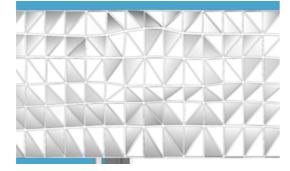
SCHEMATIC SECTION OF SQUARE

FACADE STRATEGY

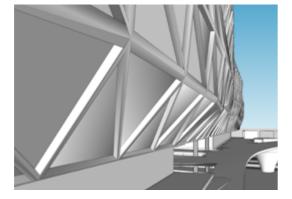
NON PARAMETRIC INTERVENTION



PARAMETRIC INTERVENTION

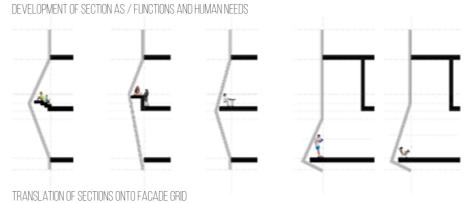


TRIANGULATED PANELS



GRID STRUCTURE ELEMENTARY SCHOOOL LIBRARY TRANSLATION ON FACADE







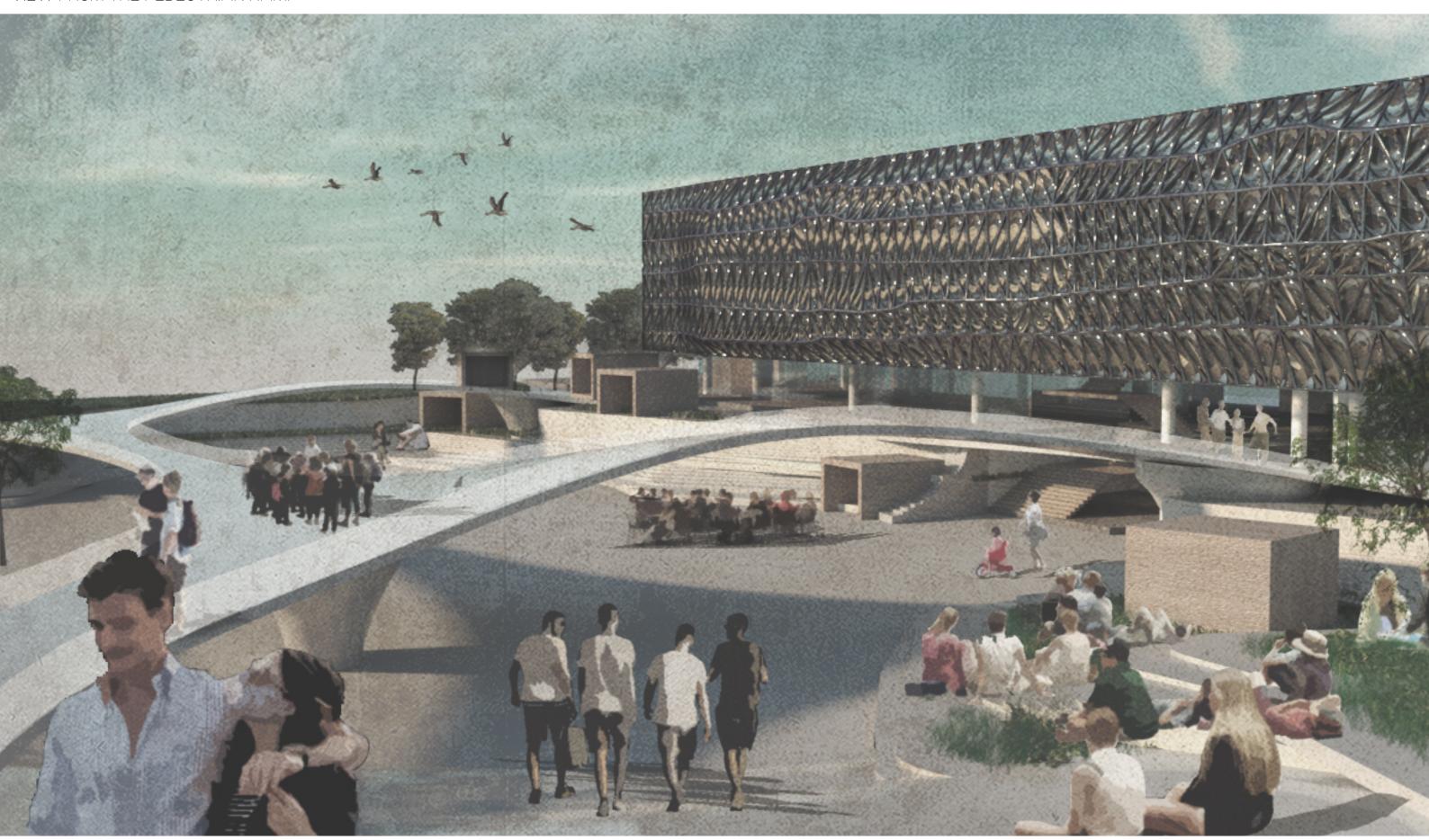
VIEW OF THE TERRACE - WINTER GARDEN



VISUALSATIONS



THE FACT THAT THE ELEMENTARY SCHOOL IS NEEDED AT THE SITE CALLS FOR MANY ACTION. THERE IS NO CONTROLLED OPEN SPACE FOR CHILDREN TO MOVE AROUND, AND THEY MOSTLY STAY WITHIN FOUR WALLS. THE BUILDING TERRACE IS DESIGNED FOR MULTIPLE USE. IT ACTS AS A PARTIALLY OPEN PLAYGROUND FOR THE KIDS OF THE ADJACENT ELEMENTARY ACHOOL. IT CAN ALTERNATIVELY CONVERT TO A WINTER GARDEN, SO THAT THE CHILDREN CAN IMAGINE WITHOUT CONSTRAINTS. DURING THE NON-OPERATIONAL HOURS, IT IS OPEN UP FOR REGULAR PUBLIC, ACCESIBLE FROM THE MAIN STAIRCASE.

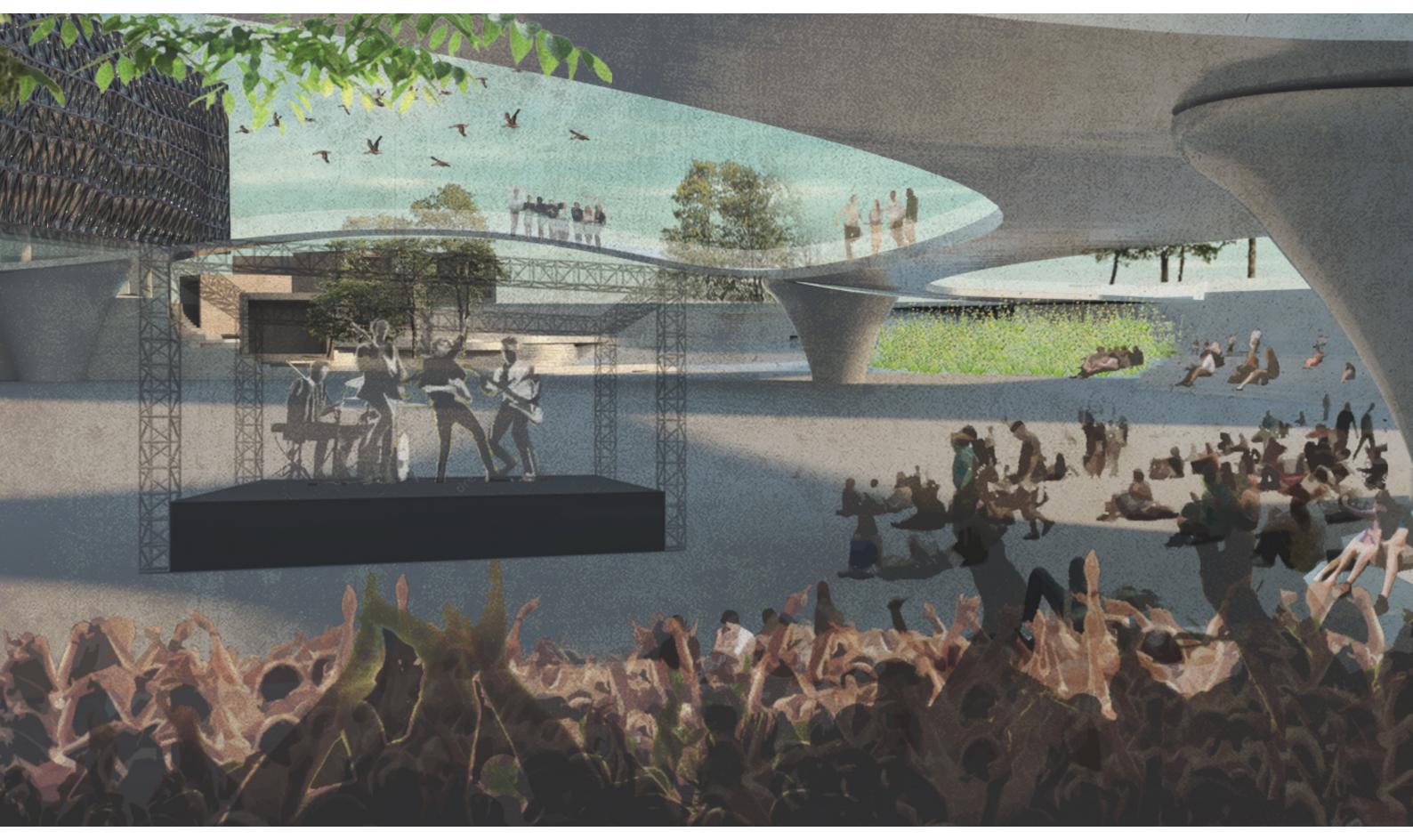


THE MOST IMPORTANT ASPECT OF THE DESIGN IS TO ESTABLISH A CONNECTION BETWEEN THE SUBWAY TUNNEL AND THE RESIDENTIAL NEIGHBORHOOD. IT HAS BEEN SOLVED BY PROVIDING A SEAMLESS PATH CONNECTION THE UNDERGROUND WITH A DRAMATIC RAMP INTEGRATED IN A PUBLIC SPACE. IT LETS PEOPLE OF ALL AGE GROUPS, GENDERS AND SPECIAL NEEDS TO MOVE FREELY IN TO SPINE. THE ABOVE ILLUSTRATION IS A VIEW FROM THE ENTRANCE RAMP THAT CONNECTS THE SQUARE WITH THE SURROUNDING NEIGHBORHOOD.



HLOUBETIN URBANISED IN LATE 60S, WITH SIMPLE MORDERNISTIC RESIDENTIAL TOWERS RISING FROM THE GROUND. THE STREET ELEVATION HAD TO BE TREATED WITH UTMOST SENSITIVITY AND RESPECT TO THE CONTEXT. THE FORM OF THE BUILDING FOLLOWS THE URBAN BLOCK. ALTHOUGH THE SQUARE SIDE FACADE JUGGLES WITH THE FUNCTIONS HOUSED INSIDE, THE ROAD SIDE ELEVATION IS SIMPLE, AND FOLLOWS ADJACENT MODERN ERA BUILDINGS. THIS ALSO SUPPORTS SIGNAGE AND ADVERTISEMENTS FOR THE RETAIL INSIDE, A PRIVILEDGE THAT THEY ALREADY ENJOY.

SUMMER VIEW FROM UNDER THE BRIRDGE



THE CENTRAL SQUARE IS A HUB OF ACTIVITIES. IT IS ASSISTED BY SEVERAL SEATING SPACES, F&B OUTLETS, DAILY, GREEN PATCHES AND OBSTRUCTION FREE AREA. THE SUBSEQUENT VIEW IS A SUMMER AFTERNOON WITH A CONCERT GOING ON. FOR SUCH OCCASIONS THE SQUARE CAN ACCOMODATE AS MANY AS 2500-3000 PEOPLE. OTHER SUMMER ACTIVITIES LIKE OPEN AIR CINEMA, SMALL SPORTS EVENTS, BOARD GAME NIGHTS AND BIRTHDAY PARTIES ARE ENCOURAGED AND SUFFICED FOR.

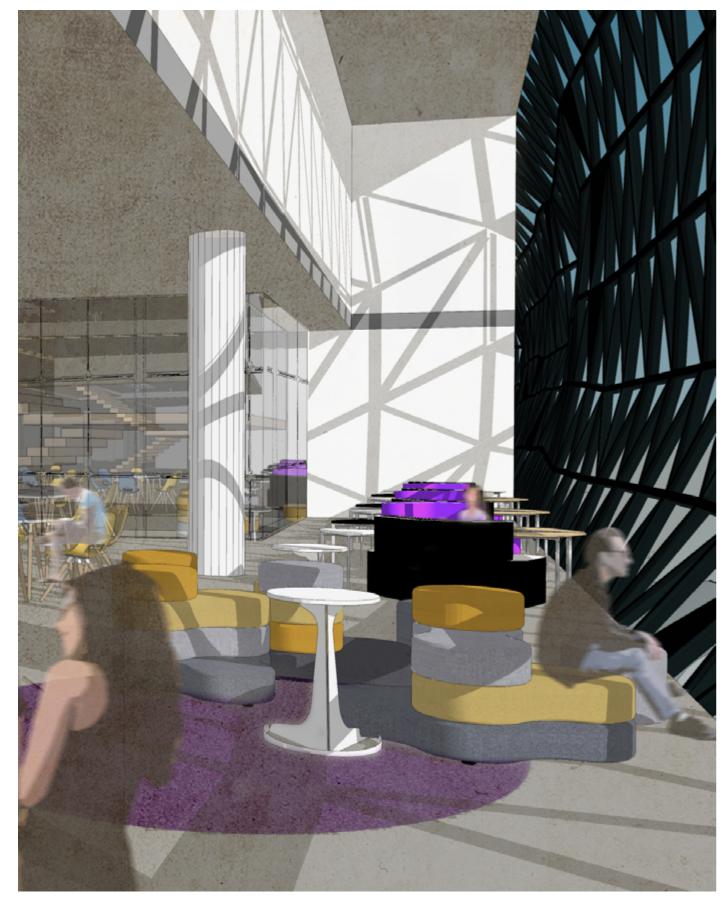
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WINTER VIEW FROM UNDER THE BRIDGE



SUMMER ARE NOT THE ONLY TIMES, THAT ENCOURAGES HUMAN ENGAGEMENTS. FOCUS HAS BEEN MADE TO CARRY OUT SMALL EVENTS LIKE FARMER'S MARKET, CHRISTMAS MARKET, SPORTS ACTIVITIES ETC. THE ABOVE IMAGE ILLUSTRATES AN ACTIVE SPACE AT THE PEAK OF WINTER, ENGAGING DIVERSE AGE GROUPS AND GENDERS. THE PUBLIC SPACE STRIVES TO HAVE SOMETHING FOR EVERYBODY, AND FACILITATES FOR SPECIAL NEEDS AS WELL.

LIBRARY INTERIOR

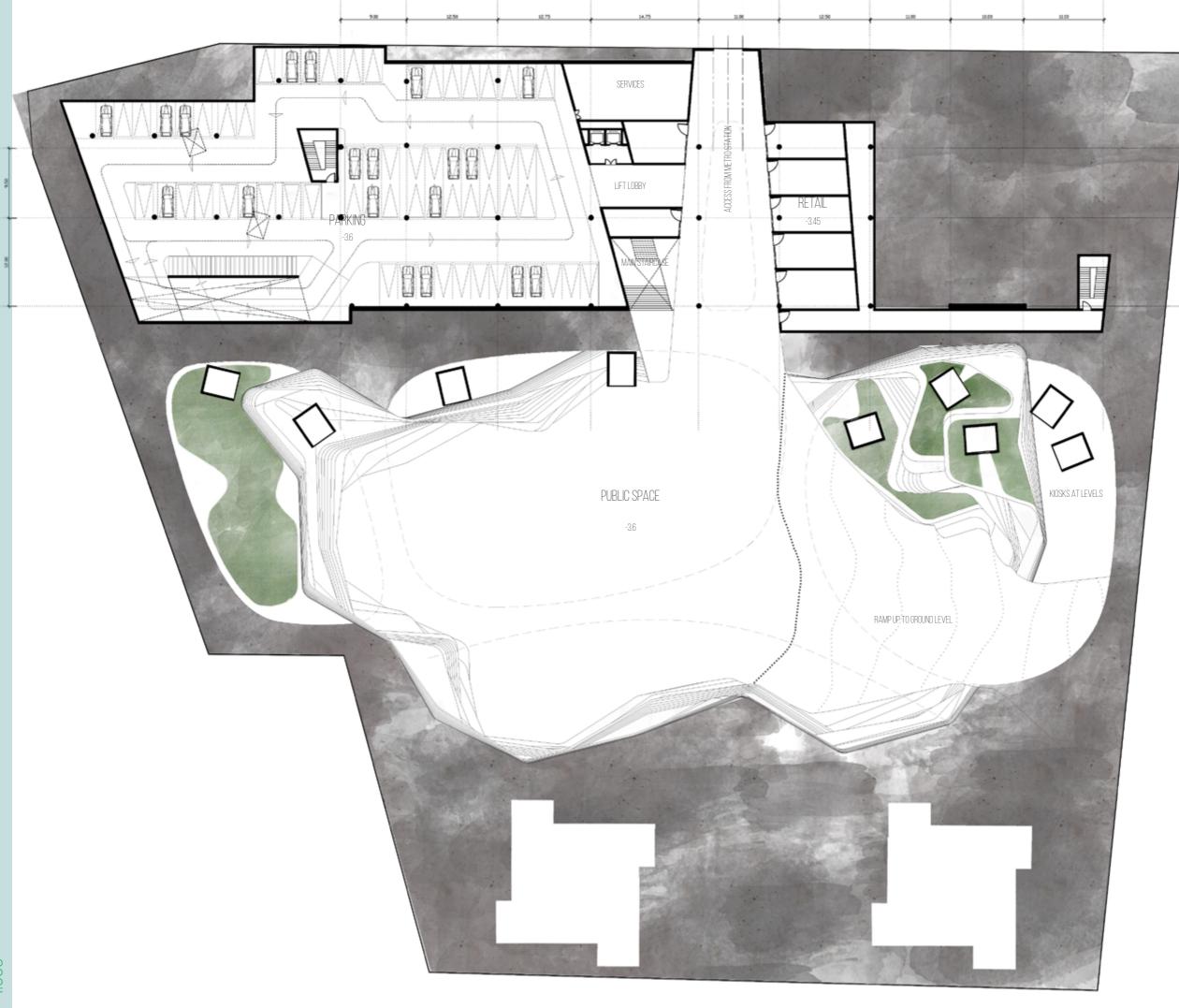


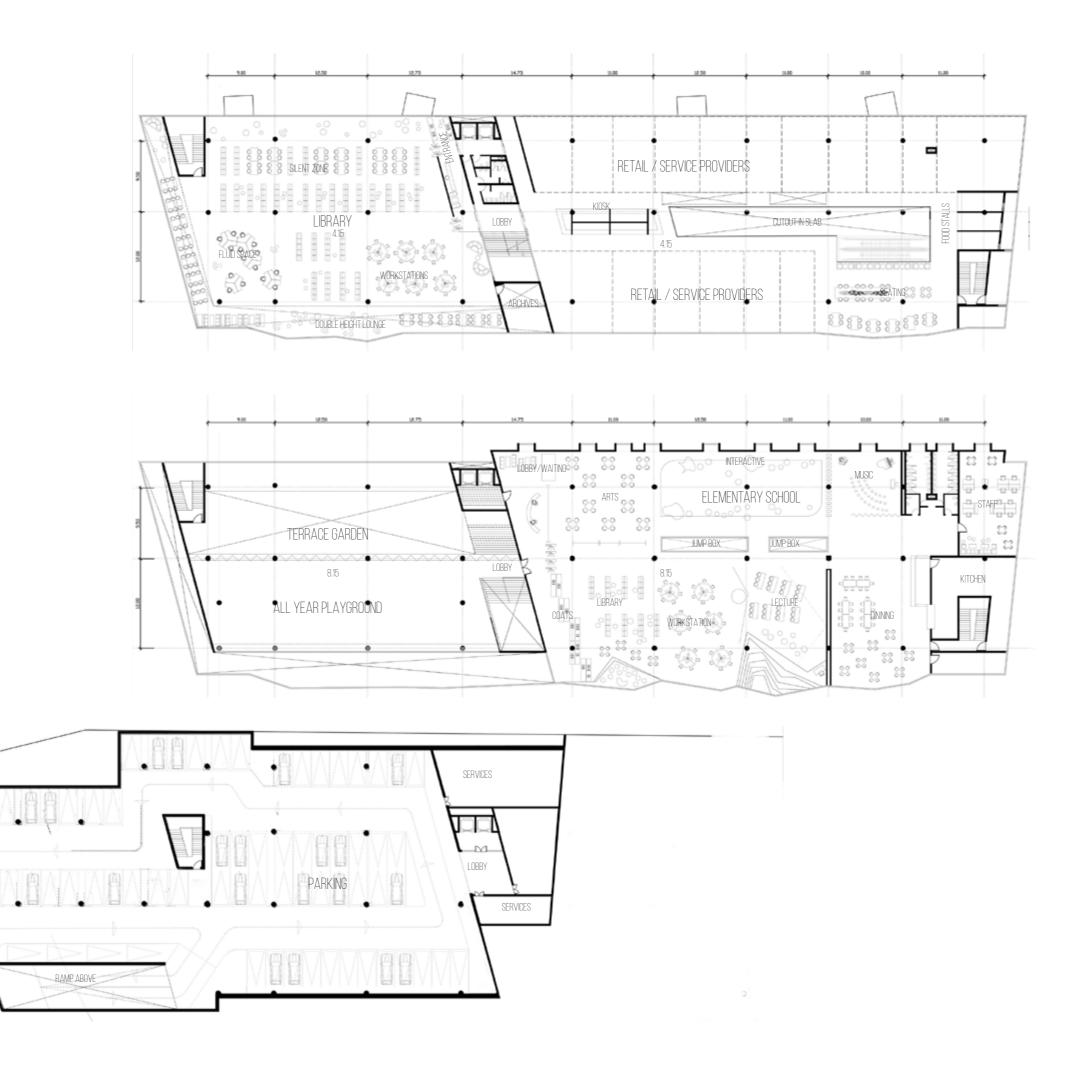


ARCHITECTURE DRAWINGS

THE EXISTING SITE HAS A LIBRARY OF APPROX. 140 SOM. IT SITS IN A CORNER, INVISIBLE AND DARK. THE PROPOSED LIBRARY IS DESIGNED FOR ROUGHLY QUADRUPLE THE AREA. ITS PLANNED SO AS TO HAVE PLENTY OF DAYLIGHT AND VARIETY OF SPACE. THERE IS NO PHYSICAL DIVISIONS, HOWEVER, ASSURANCE HAVE BEEN MADE FOR DIVERSITY SUCH AS SILENT ZONE, WORKSTATIONS, PRIVATE NOOK, DOUBLE HEIGHT READING LOUNGES AND STORAGE, ARCHIVES ETC.

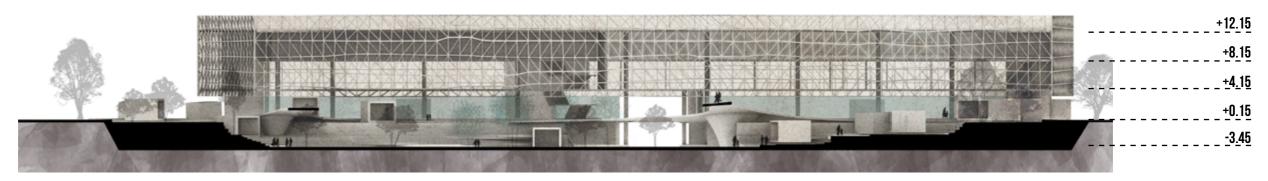








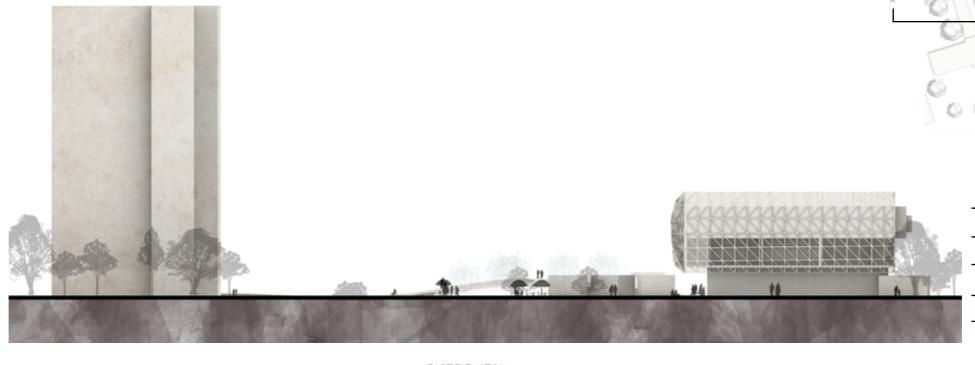




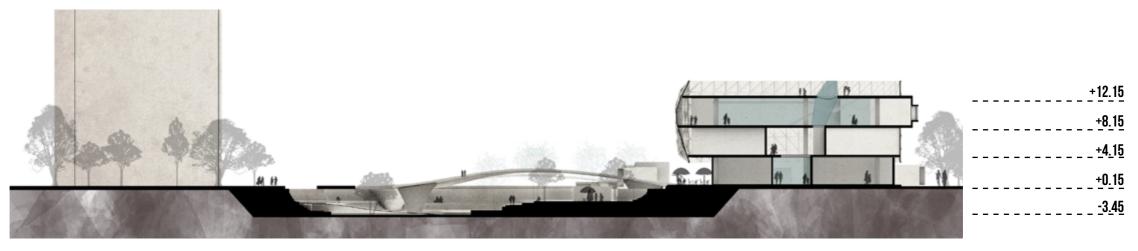
SECTION AA' - SQUARE SIDE ELEVATION



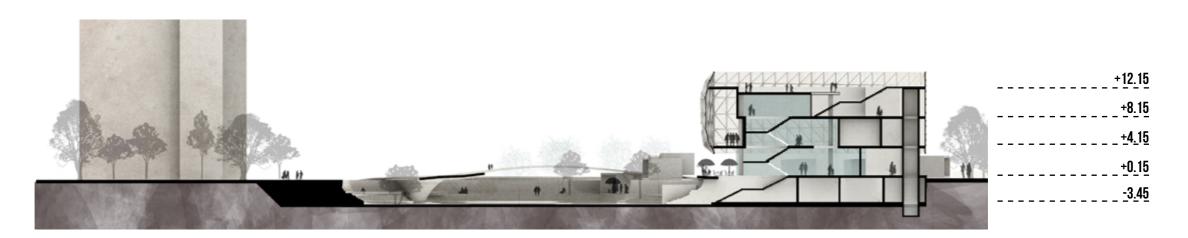
SECTION BB' - LONGITUDINAL SECTION



EAST ELEVATION



SECTION CC' - THROUGH SCHOOL



SECTION DD' - THROUGH MAIN STAIRCASE

1:500

+12.15

+8.15

<u>+4.15</u>

+0.15 -3.45

SPECIAL MENTIONS

CAMP, PRAHA

IPR PRAHA

PROF JAN JEHLIK, CVUT (LECTURES)

PROF KAREL MEIR, CVUT (LECTURES)

MAPY.CZ

FOTOHISTORI.CZ

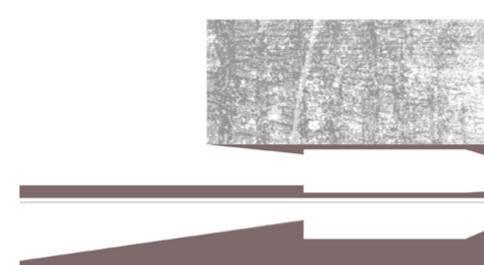
ARCHDAILY

LIFE BETWEEN BUILDINGS, JAN GEHL

RETAIL (r)EVOLUTION, DAVID KEPNOR

CITZ RIFFS, RICHARD PLUNZ

PRAGUE 20TH CENTURY ARCHITECTURE



THANK YOU