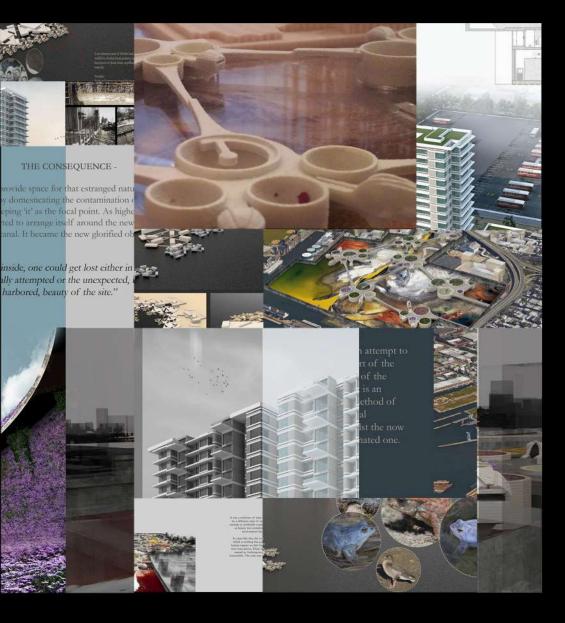
# PORTFOLIO Menka Desai





Masters Of Science in Achitecture and Urban Design  JD - Studio	
Horrific Beauty	
	Professional Work
	1302 Davon Lane, Houston, Texas
	San Leon, Texas
	5418 Libbey Lane, Texas
	Saffron Residency, Mumbai
	· · · · · · · · · · · · · · · · · · ·
Bachelors of Architecture	
Indergraduate Thesis	
Conserve-Redevelopment of Crawford Market	
Sachelors of Architecture	
NASA Work (National Association of Students of Architecture)	

# Horrific Beauty

2015 - 16 - UD studio

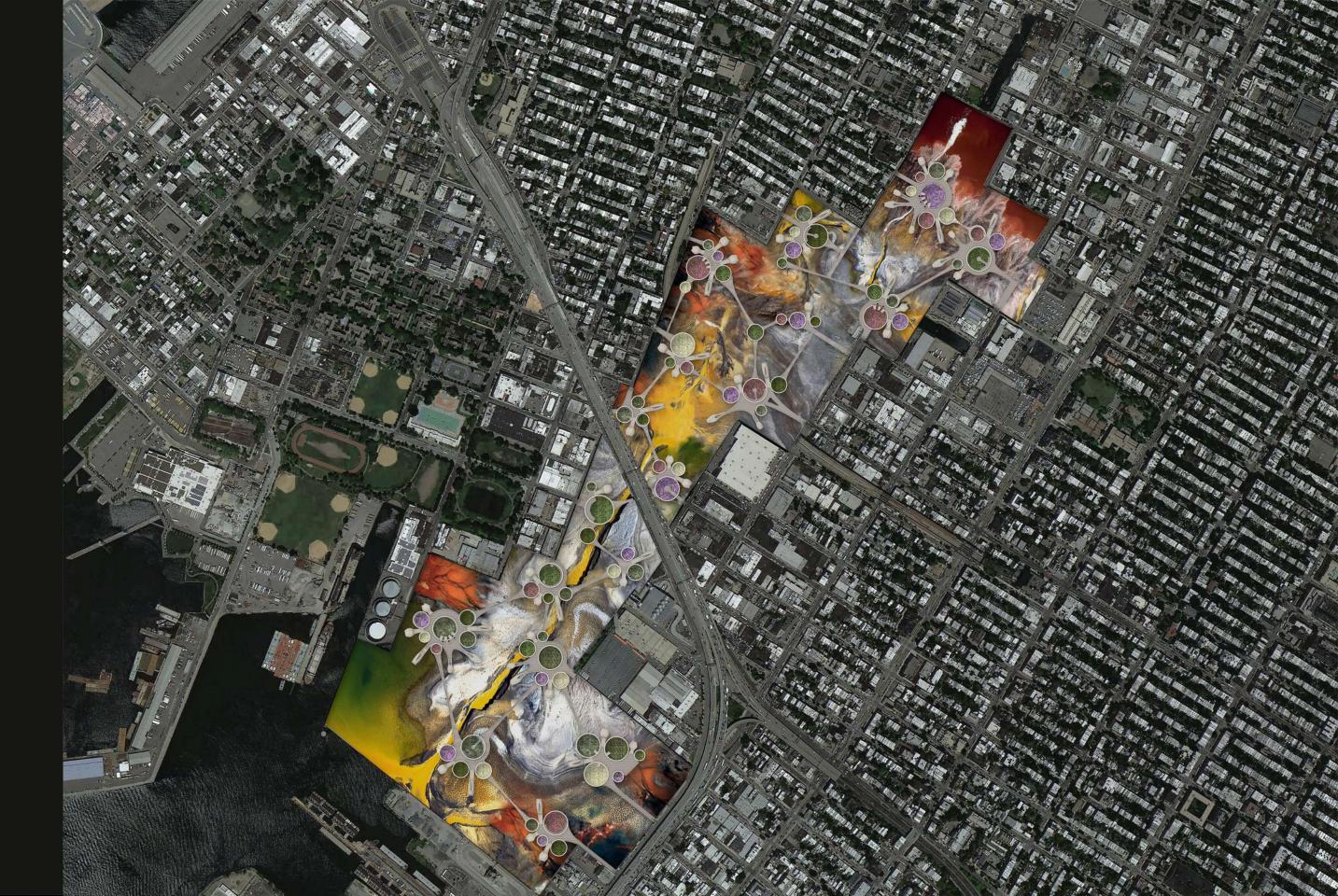
Masters of Science in Architecture and Urban Design



'And all is not golden that glitters, and not all that glitters is gold.'

Aloysius Charles Swimburne

The painted picture made up of rich patterns, peculiar strokes and mixtures of infinite colors uses the previously undefiled surface of this planet as the canvas. This aerial shot captures the following narrative in its perfect sense by mixing the present scenario with figments of fiction backed up (maybe or maybe not) by scientific facts. The abstract illustration, thus created, lures the viewers in and compels them to look at it more closely with a tad bit more attention and lots of curiosity, along with a stronger appreciation for the beauty of the picture. Eagerness to know the subsequent consequences that must have led to the formation of such an intriguing situation leads the viewers on the path to a horrified discovery.

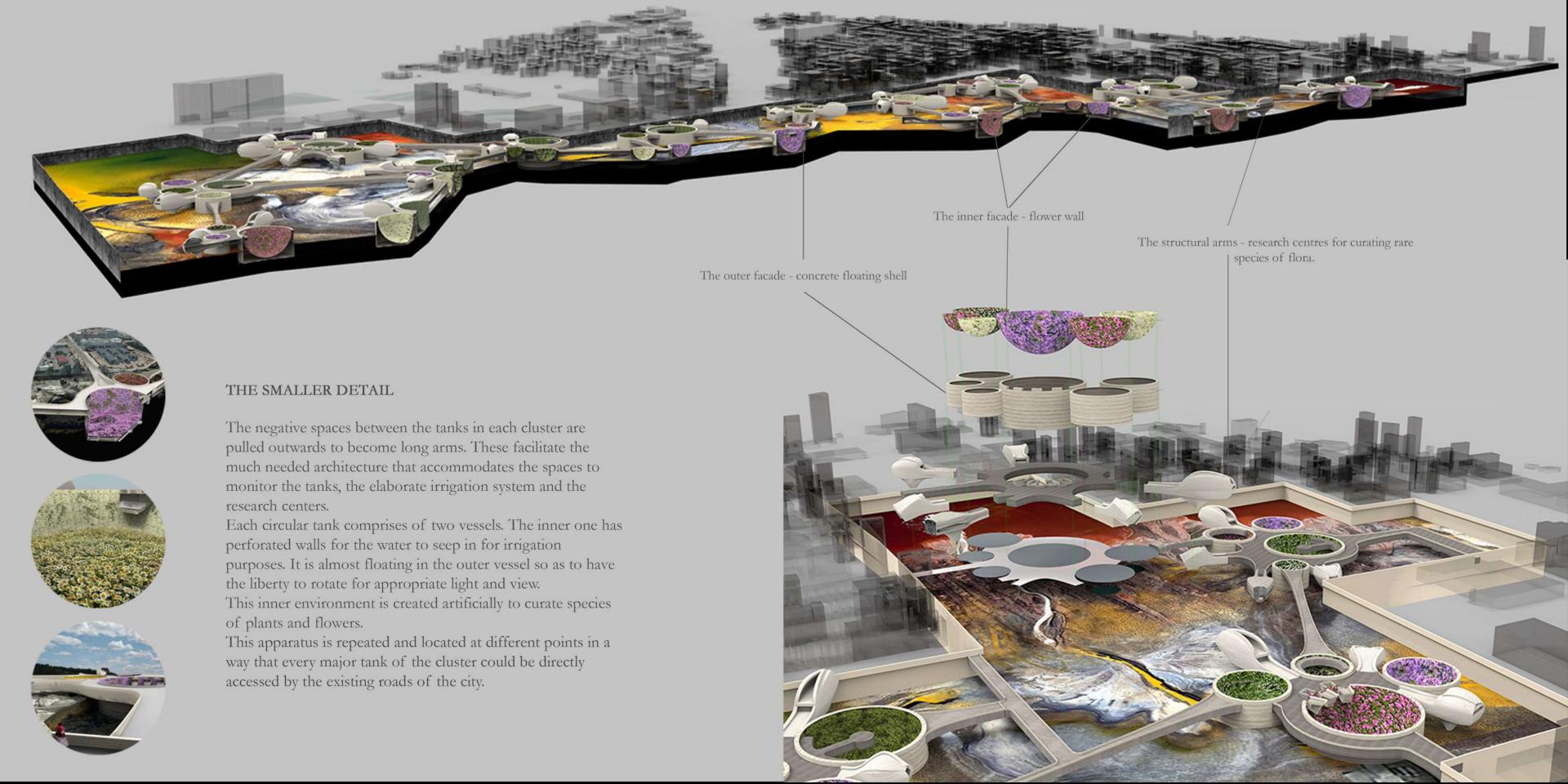


#### THE NARRATIVE -

To curb the spread of the pollutants in the Gowanus neighborhood, a slurry wall has been introduced around the canal, that took up the extents to which the toxicity had spread, as its demarcating border. The wall contains openings for the roads to pass through it, leading to the man-made clusters of circular

These tanks are an attempt to retain a certain part of the original ambience of the Gowanus canal. It is an unconventional method of creating an artificial environment amidst the now accepted contaminated one.

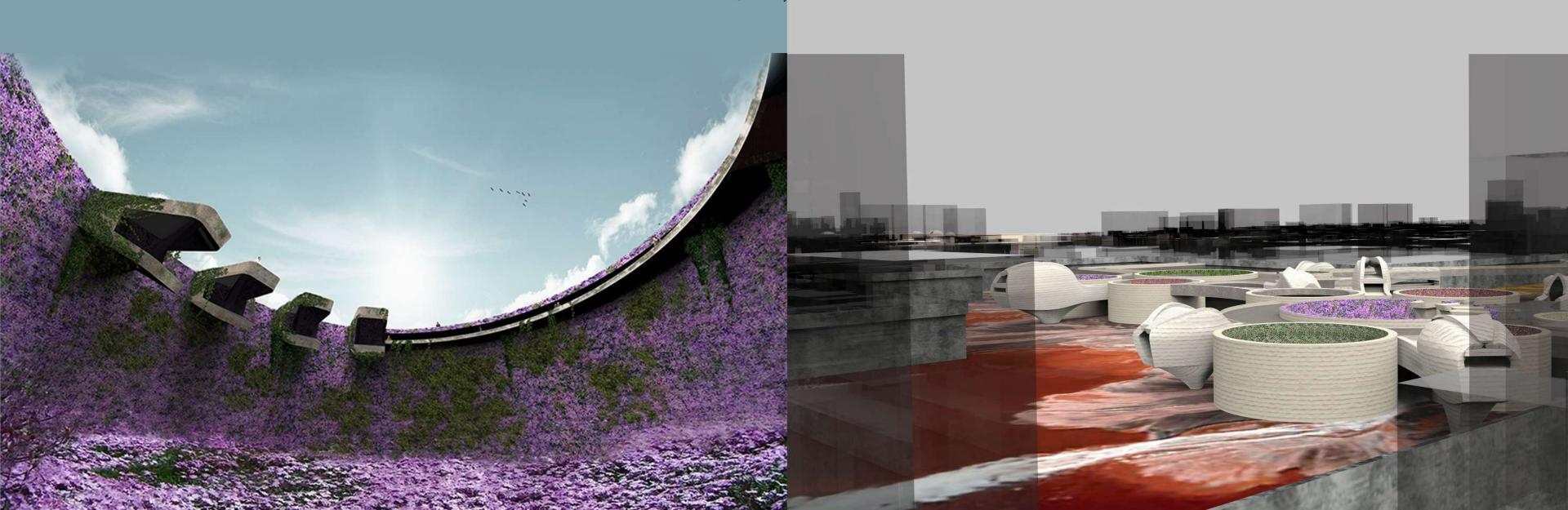


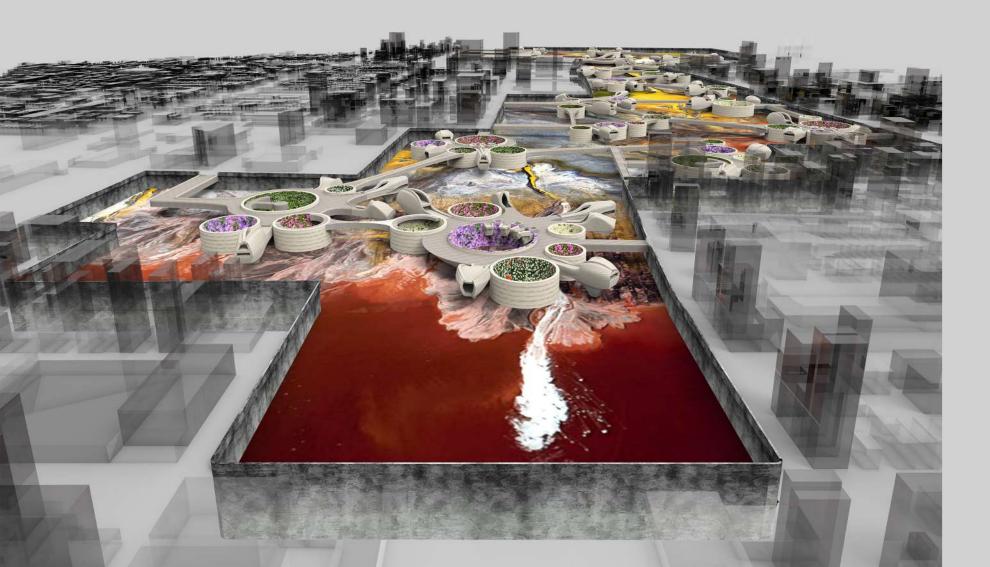


#### THE CONSEQUENCE -

The existing urban fabric had been punctured to provide space for that estranged nature of toxicity which was not only accepted but was admired for its beauty. The ripple that was created by domesticating the contamination of the canal was seen in its most physical form. High rise buildings started to come up around the canal keeping 'it' as the focal point. As higher up you went from the centre, the more beautiful the picture you'd get! With this idea, the real estate started to arrange itself around the new view conveniently. The buildings became taller and taller surrounding the canal. It became the new glorified object to look and admire.

"Once inside, one could get lost either in the artificially attempted or the unexpected, but harbored, beauty of the site."





It was a criticism of what can be beautiful; a criticism of what can be a different state of existence for the term 'beauty.' Here, the attempt at artificially creating an environment of what we perceive as beauty was completely overshadowed by the unexpected environment that was established outside of it.

In cases like this, the zoomed in view of the beautiful picture, which is nothing but polluted water, makes us realize how the human impact on this Earth is causing this planet to disintegrate into toxic pieces. There is no escape from this era, what we have named as Anthropocene, because we have already done the irreversible. The only way would be to create alternate scenarios of existence.

## THE PHYSICAL REALITY

A model was made - 40 inches x 36 inches in dimensions, to have a look at the scaled structures in their physical form to have a better idea of the real urban scenario.

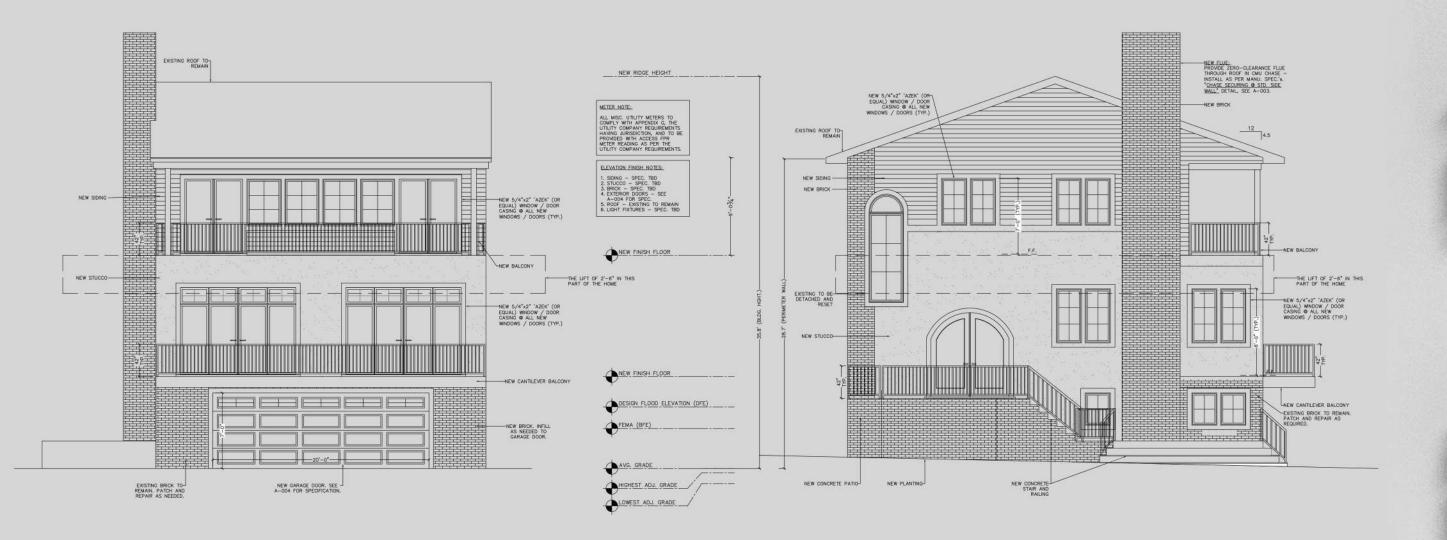




# Professional Work

2013 - 1

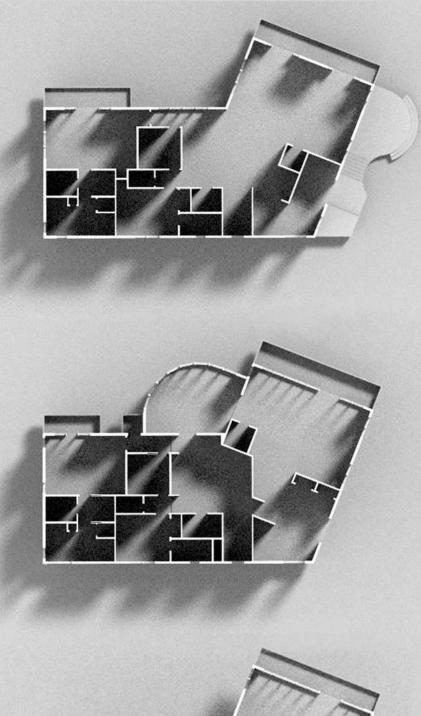


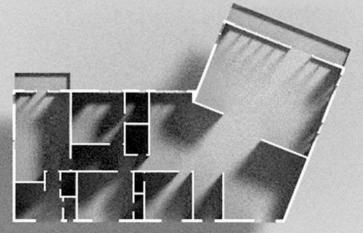


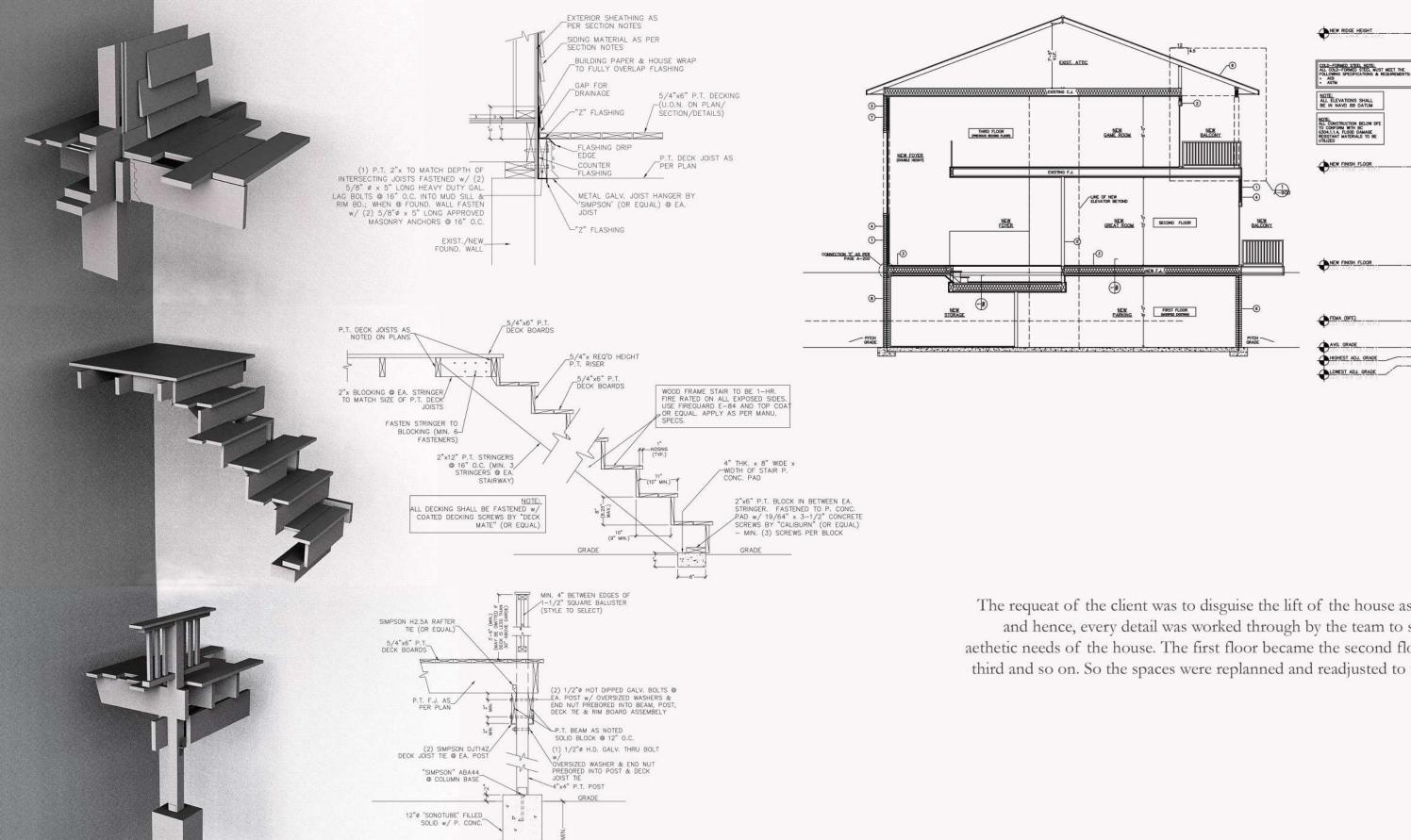
## 1302 Davon Lane, TX

Located in Houston, Texas, this project is a part of Resilient Architecture - The unconventional way that Government chose to deal with the rising sea levels and impending constant dangers of floods and hurricanes.

The house has been proposed to be lifted off of the ground by 9' and subsequently the interior spaces have been designed to get maximum light and ventilation by playing with the most basic form of cirulation - spatial composition of line, dot and curve.







#### **DETAILS**

THIRD FLOOR (PREMICE SCORE)

SECOND FLOOR

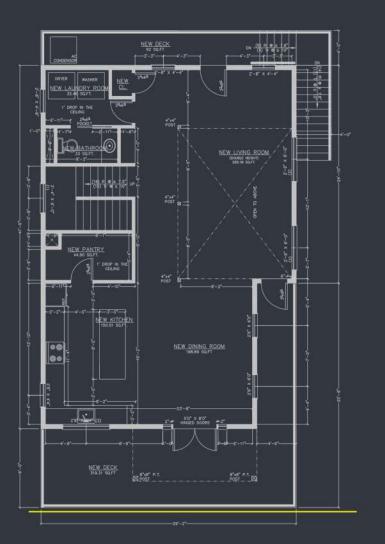
FIRST FLOOR (MODIFICE CRISTING)

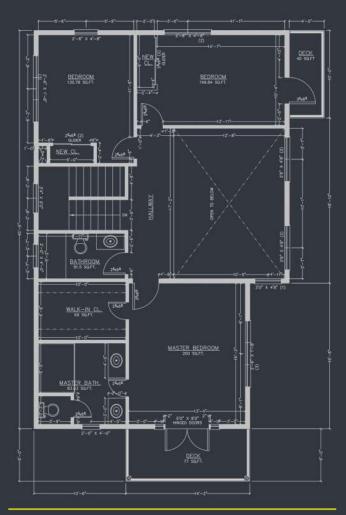
The requeat of the client was to disguise the lift of the house as a key element of the aethetics and hence, every detail was worked through by the team to suit the structural as well as the aethetic needs of the house. The first floor became the second floor and the second became the third and so on. So the spaces were replanned and readjusted to the new finctions to be served.

#### San Leon, TX

San Leon is a real estate development project in Texas, started by AMP
Development. Being the Design Architect of this project, the major constraint I
faced was the narrowness of the plot and three directional allowance for
fenestrational opening. This directed the design circulation - the services, staircase
and the kitchen were hence stacked against the fourth wall with minimum ventilation
but were open to light on the opposite side.

Double height spaces in the living room helped restore the openness and elegance even though the house was constricted in space.

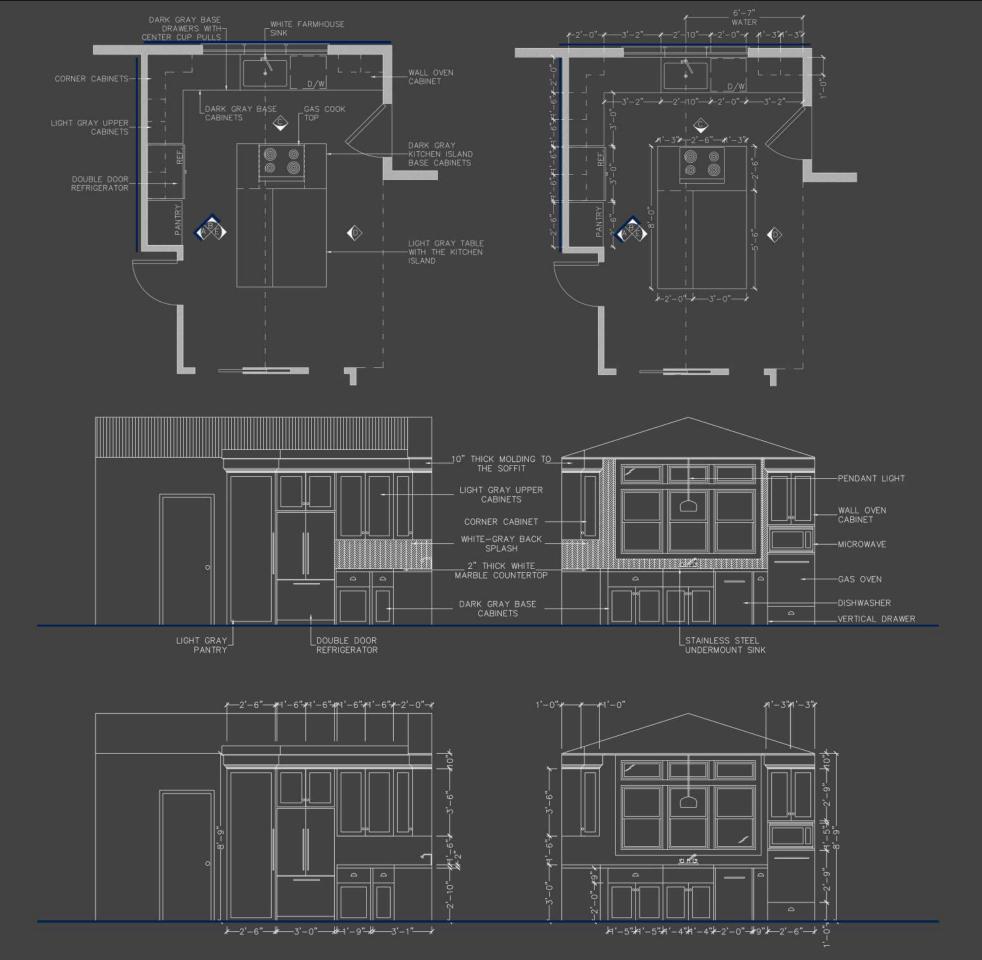












#### 5418 Libbey Lane, TX

Proposed kitchen for this house was bold and modern, with steel gray affordable appliances. Paired with white gray backsplash and exquisite pendant lights, it gave the space a contemporary look.

As a part of AMP Architecture, I received ample opportunities to learn and creat interior spaces along with bidsheets, construction drawings for contractors and furniture/finish list for the clients, in different genres of design.

# Saffron Residency, Mumbai

It is the project that defines the current trend of redevelopment in the city of Mumbai to the best. "Budget Housing" has become a word of contradicting importance to people and the Government. Here, this is one of the examples of Budget housing designed to satisfy the requisite needs of the tenants, clients and also the building code of Mumbai.



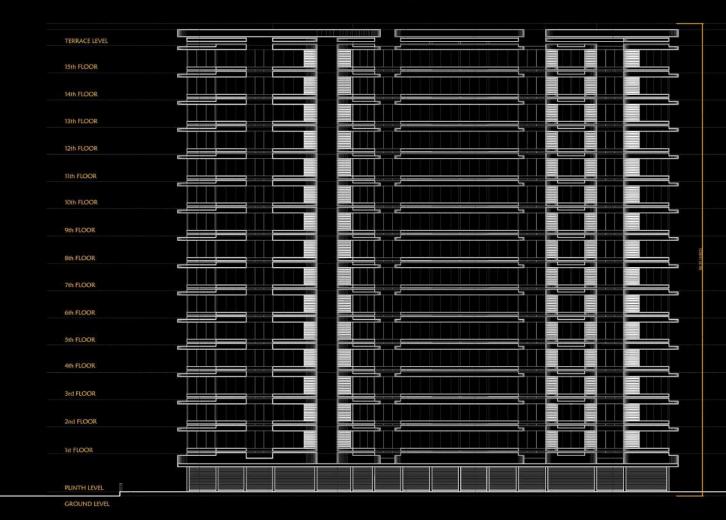




## Construction Drawings

Planning to be in phases, this project had a major constraint of height restriction of 50.38M being so close to the Mumbai Airport called the Aviation Restriction. Like any other site in this dense city, this piece of land in Kurla had its own feasibility issues in terms of soil type, form and irregularity of the shape, linear dimensions, and massive requirements of facilities to be accommodated in.



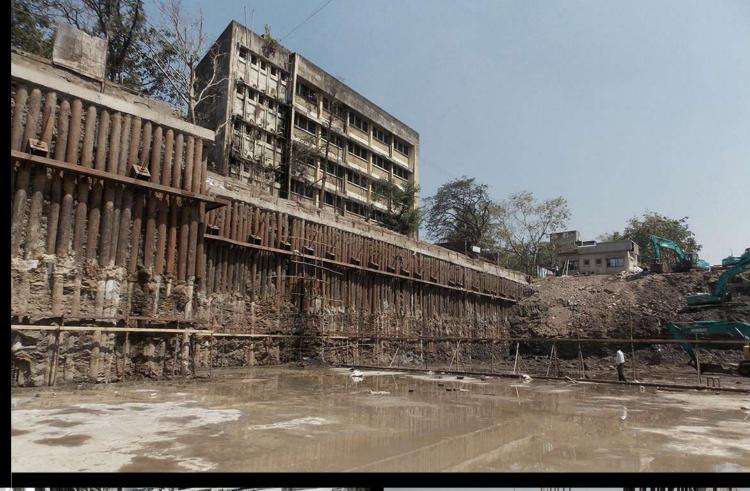


# Reality

Currently, the foundation has been laid, the pile shoring has been done and the construction has reached the second floor of Phase 1.

After two years of design development, the construction of the project started in early 2015. Expected completion - Late 2018.











# UNDERGRADUATE STUDY

2013 - Undergraduate Thesis ConservRedevelopment of Crawford Market

Bachelors of Architecture (B.Arch.)

In the past, preserving Mumbai's Heritage was limited to conservationists and administrative officers. Now it has a become a topic for debate and discussion for denizens and political parties.

There is an urgent need to preserve the fast disappearing 'façade of Bombay'.

Defunct mills and crumbling traditional structures are being razed to make way for high rises and malls.

But for a heritage structure to survive in a city like Mumbai, the base and the function of the structure should be strong and have greater efficacy. Because of land scarcity, historic monuments have to justify their existence with respect to financial feasibility.

This is when redevelopment comes into picture. Redevelopment is the key to the problems of land scarcity, lack of open and recreational areas, unorganized planning and improper utilization of space.

However, Redevelopment is not the only solution to the current problems of the city. It might help in increased land use and functions, but at the cost of the 'historic character of Mumbai' doesn't seem to be justified.

"In the rapidly growing Mumbai city, its indeed a challenge to preserve and protect its Heritage without coming in the way of city's development. This calls for evolving of specific schemes by which the city's Heritage structures and modern constructions can harmoniously co-exist and compliment mutually. This is a unique challenge as city has not segregated Heritage Zones and Non-Heritage Zones.

It would, thus, be necessary that the architectural design of the new construction near the Heritage structure compliments the Heritage structure."



- MUMBAI CITY DEVELOPMENT PLAN 2005 - 2025



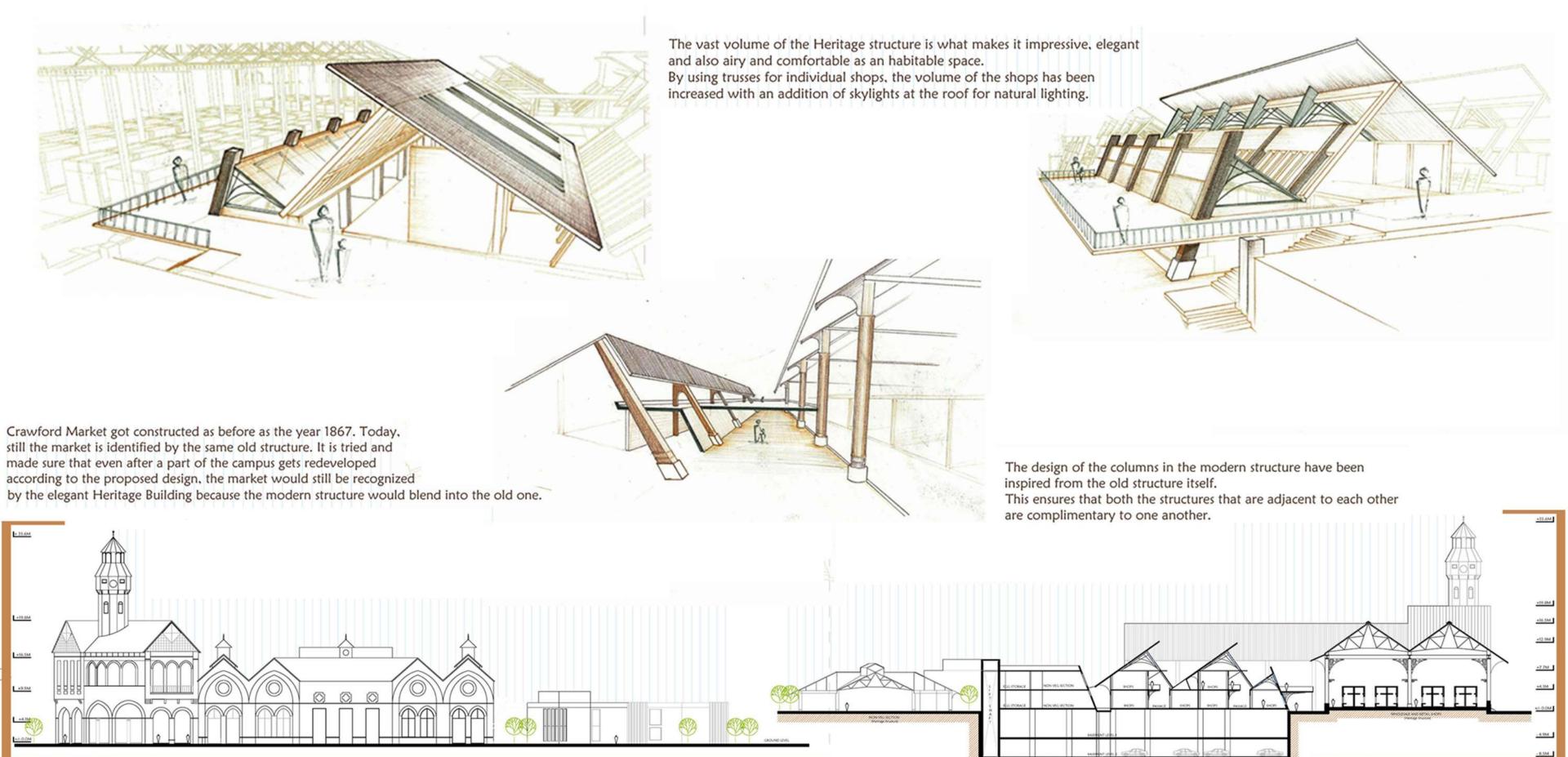












SECTION A-A'

# UNDERGRADUATE STUDY

2008 - 2012 - NASA (National Association of Students of Architecture) Projects Louis. I. Kahn Trophy

Bachelors of Architecture (B.Arch.)

#### INDUSTRIAL ARCHITECTURE Jessop & Company Limited,

Dum Dum, West Bengal, India

Comprising of 70 acres of land, this railway gauge manufacturing industry was established in the late 1800s. It became an engineering marvel of its time with its advanced steel truss construction.

#### INDUSTRIALIZATION IN INDIA

THE TERM INDUSTRIALIZATION REFERS TO THE GROWTH OF MANUFACTURING INDUSTRIES. THE LATER HALF OF 19TH CENTURY WAS MARKED BY A MAJOR DIVISION IN THE WORLD'S ECONOMY INTO AGRICULTURAL AND INDUSTRIAL ECONOMY. THE FOUNDATION OF THIS TRANSITION OF ECONOMY WAS TRADE FOLLOWED BY AN INCREASE IN DEMAND AND SUPPLY OF GOODS. TECHNOLOGICAL ADVANCES IN TRANSPORT, INFRASTRUCTURE AND COMMUNICATION CREATED NEW PPORTUNITIES FOR TRADE

NUMEROUS COMPLEXITIES FACED IN THE EXTENSIVE PERIOD OF INDUSTRIALIZATION HAVE BEEN RESPONSIBLE FOR MODIFYING THE ARCHITECTURAL EDIFICE, SEVERAL ADAPTED TO SUIT THE FUNCTION THEY HOUSED. THE ERA OF THESE SPONTANEOUS CHANGES, TERMED AS REVOLUTION, PROVED EFFECTUAL IN COPING WITH THE INCREASE IN

DEMAND THEREBY STRENGTHENING INDUSTRIALIZATION
INDIA FACILITATED A DIRECT EXPANSION IN INDUSTRIALIZATION
AS IT HAD EASY ACCESS TO NATURAL RESOURCES AND AVAILABILITY OF RAW MATERIALS ALONG WITH GOOD TRANSPORTATION FACILITIES. INDUSTRIALIZATION ENCOURAGED URBANIZATION AS PEOPLE MIGRATED IN SEARCH OF EMPLOYMENT

INDUSTRIAL REVOLUTION ALSO HAD AN IMPACT ON INDUSTRIAL ARCHITECTURE. PRIOR TO THE 18TH CENTURY, THE ARCHITECTURAL CHARACTER OF EXISTING INDUSTRIAL BUILDINGS WAS PURELY BASED ON THE SUPPLY AND DEMAND INITIALLY TIMBER TRUSSES SUPPORTED SHORT SPANS, BUT SEVERAL CHANGES WERE BROUGHT ABOUT BY THE

CAST, WROUGHT IRON REPLACED TIMBER.
GALVANIZED IRON SHEETS REPLACED MANGLORE TILES.
FURTHER STEEL REPLACED IRON DUE TO ITS COMPRESSIVE TENSILE STRENGTH- THE RIVET SYSTEM REPLACED NUT AND BOLTS WHICH WERE THEN REPLACED BY WELDING

THE BRITISH WERE RESPONSIBLE FOR THE BASE OF CONSTRUCTION TECHNIQUES USED IN THE INDUSTRIES OF INDIA-

#### BRIEF INTERPRETATION

INDUSTRIES IN TODAY'S DAY AND

INDUSTRIES HAVE BEEN BOLSTERING THE PROGRESS JR NATION ECONOMICALLY AS WELL AS IN TERMS OF TRADE AND INFRASTRUCTURE. THE MANUFACTURING INDUSTRY WHICH PLAYS A MAJOR ROLE IN DEVELOPMENT ORIGINATED IN THE 19TH CENTURY TO COPE UP WITH THE CHANGE, EVOLUTION OF NEW CONSTRUCTION TECHNOLOGIES AND MATERIALS WERE USED TO REACH A POINT OF PERFECTION INDUSTRIES RESPONDING TO THE CHANGE HAVE SUSTAINED WITH AN ASCENDING GRAPH OF PRODUCTION HENCE THE STUDY OF THESE INDUSTRIES IN TERMS OF THER ECONOMICAL, ARCHITECTURAL AND ADMINISTRATIVE EVOLUTION AND ADAPTATION IS ESSENTIAL FOR THE PROGRESS OF

MAP OF KOLKATA LOCATION OF SITE

TRUCTURAL WORKS

FINAL ASSEMBLY

TEMPLATE SHOP

BOGIE WORKS

ROAD ROLLER

INTERCONNECTING RAIL TRACKS THROUGHOUT

MAP OF INDIA

SHOWING TRADE ROUTES!

INDUSTRIALIZATION IN INDIA BEGAN IN THE LATER HALF OF 1974 CENTURY THROUGH BRITISH TRADE . LOSS OF TIME THROUGH MERE EXPORT OF RAW MATERIAL VIA SEA ROUTES ENCOURAGED THE ESTABLISHMENT OF INDUSTRIES IN CLOSE PROXIMITY TO THE SOURCE OF MATERIAL

DUE TO AN INCREASE IN POPULATION AND RESULTANT RISE IN THE DEMANDS OF BASIC NECESSITY, THE ESTABLISHMENT OF MANUFACTURING INDUSTRIES WERE ENCOURAGED TO LOWER COSTS AND HASTEN PRODUCTION

.THE INDUSTRIAL REVOLUTION BROUGHT ABOUT A SHIFT FROM AGRARIAN ECONOMY TO INDUSTRIAL

187 PHASE COMPRISED OF A SHIFT FROM MANUAL LABOUR TO MACHINES

2ND PHASE MANIFESTS THE INTRODUCTION OF RAILWAYS AND ITS NEED FOR WORKSHOPS. MAXIMUM EVOLUTION OF THESE INDUSTRIES WAS OBSERVED IN KOLKATA, MUMBAI, KANPUR AND

DURING THIS ERA, KOLKATA, A PROMINENT CITY OF THE BRITISH EMPIRE WAS FAVOURABLE FOR INDUSTRIAL GROWTH AS A RESULT OF:

AVAILABILITY OF RAW MATERIAL POWER SUPPLY AND LABOUR PORT FACILITIES FOR EXPORT AND IMPORT SURFACE TRANSPORT FACILITIES \*THESE FACTORS LED TO EXPANSION OF INDUSTRIES

IN EVERY CORNER OF BENGAL JESSOP AND CO. A MAJOR ENGINEERING INDUSTRY WAS ESTABLISHED IN 1821 IN HOWRAH AND MANUFACTURED IRON BRIDGES, SHIPS, STEAM BOATS, ROAD ROLLERS AND PARTS OF CRANE ATTACHMENTS ALONG WITH PRIMITIVE TRANSPORT ITEMS. . DUE TO GOVERNMENT LAND ACQUISITION, FOR THE

HOOGHLY BRIDGE IN 1923 JESSOP AND CO. SHIFTED BASE TO DUM DUM. . DUM DUM, A TOWN IN 24 NORTH PARAGANAS DISTRICT OF BARRACKPORE SUB DIVISION OF KOLKATA STATE IN INDIA WAS ESTABLISHED IN 1784

BY THE BRITISH COUNCIL . DUM DUM IS EASILY ACCESSIBLE FROM: DUM DUM CANTONMENT RAILWAY STATION JESSORE ROAD-CONNECTS NATIONAL HIGHWAY NETAJI SUBHASH CHANDRA BOSE AIRPORT,

DUM DUM AIRPORT \*THESE FACTORS PLAYED A MAJOR ROLE IN MAKING DUM DUM A STRONG BASE FOR SETTING ENGINEERING FIRM LIKE JESSOP AND COMPANY THE COMPANY PURCHASED A CONSIDERABLE AREA CTO ACRES) OF LAND FROM INDIAN GOVERNMENT IN DUM DUM-

MACHINE SHOP

COACH WORKS

C.L.W.

THE FORM EVOLVED FROM FUNCTION AND

LANNING SHOWCASE VARIATION IN HEIGHTS

P DIFFERENT UNITS
WATER DRAINAGE AND SERVICE FACILITIES
OR INDIVIDUAL UNITS

OF RAW MATERIAL . IRON AND STEEL . MACHINE TOOLS MANUFACTURING INDUSTRIES

MAP SHOWING MAJOR SOURCES

INDEX

S COTTON PRODUCING

PROVISION OF OVERHANGS AND NORTH TRUSSES AND HUGE OPENINGS WHICH ENHANCES THE COMFORT LEVELS ADMINISTRATION BLOCK ADJACENT TO EACH T FORMING COURTYARD WHICH ACT AS

#### EVOLUTION OF SITE

#### PHASE 1: 1925-1940

. FABRICATION UNIT WAS THE FIRST MAJOR UNIT IN 1928 AS A MAIN PART OF STRUCTURAL WORKS FOLLOWED MECHANICAL WORKS VIRTUALLY TRANSFORMED FROM PRIVATE TO PUBLIC LIMITED WITH IN 1930, PLANNED ON EITHER SIDES OF RAILWAY LINE WHICH CONNECTS TO MAIN DUM DUM RAILWAY STATION.

\*JESSOP AND CO. STARTED THE TRADITION OF MANUFACTURING OF MAJOR ENGINEERING COMPONENTS AT VAST SCALE AND WIDE

RANGE OF VARIETY LIKE WAGONS, BRIDGES AND GATES. \*THESE SHEDS ARE PLANNED ALONG THEIR LENGTH TO FACILITATE EASY INTAKE OF RAW MATERIALS AND ALSO TO FOLLOW THE FUNCTION OF THE SHED.

THE EVOLUTION OF THESE SHEDS AND THE CHANGE PRODUCTION RAISED THE ECONOMIC GRAPH OF THE COMPANY.

THE SCENE CHANGED RAPIDLY FOR JESSOP AND CO. IN THE

#### ECONOMIC GRAPH

#### PHASE 2: 1940-1955

DURING THIS PERIOD THE STATUS OF THE COMPANY WAS PARTIAL AVAILABILITY OF SHARES IN KOLKATA MARKET IN 1941-WORLD WAR-II ADVERSELY AFFECTED THE FUNCTIONS AND OPERATIONS OF JESSOP AND CO. TO GREAT EXTENT AS THERE WAS SPURT IN THE GROWTH OF INDIAN INDUSTRIES AFTER 1940 HOWEVER THE COMPANY OVERCAME THIS CRISIS SUCCESSFULLY. AR EFFECTS DEMANDED MAJOR PRODUCTION OF WAGONS AND TRANSPORT VEHICLES AND RESPONDING TO THIS DEMAND ROLLING WORKS, SUPPLIMENTED BY FINAL ASSEMBLY, BRIDGE WORKS AND TEMPLATE SHOP IN 1940 WERE ESTABLISHED THE FIRST FIVE YEAR PLAN EMPHASIZED ON AGRARIAN SECTOR AND DAMS AND IRRIGATION PROJECTS, JESSOP AND CO.

KOLKATA

MANUFACTURED BRIDGES AND GATES FOR SEVERAL BARRAGES AL .JESSOP AND CO. WAS APPROACHED BY THE GOVERNMENT FOR POSED EXTENSION FOR MECHANICAL WORKS

#### PHASE 3: 1955-1970

THIS PHASE MARKS THE INFRASTRUCTURAL DEVELOPMENT PLAN IN INDIA WITH EXPANSION IN INDUSTRIES AND ALSO THE OUTCOME OF 2ND FIVE YEAR PLAN

.FOCUSSED ON INDUSTRIES AND ON THE PRODUCTIVE SECTOR IN ORDER TO MAXIMIZE LONG RUN ECONOMIC GROWTH. THIS LED TO THE ADDITION OF SEVERAL RAILWAY LINES IN INDIA ESPECIALLY IN .JESSOP AND CO. RESPONDED WITH THE ESTABLISHMENT OF CHIEF

DIVISION OF COACH WORKS IN 1958-59, WHICH MANUFACTURES E.M.U. COACHES, PASSANGER COACHES, WAGONS AND BOGIES. .THE SHEDS WERE WELL PLANNED AND HAD A 1:1 SPAN TO HEIGHT

RATIO BASED ON FUNCTION \*\* JESSOP AND CO WAS AFFECTED BY THE INDO-PAK WAR DUE TO THE ECONOMIC SHIFT FROM THE INDUSTRIAL SECTOR TO THE DEFENSE SECTOR TO OVERCOME THIS LOSS, THE COMPANY INCREASED ITS FOREIGN EXPORTS AS A RESULT OF WHICH IT ESTABLISHED THE CRANE WORKSHOP, MACHINE SHOP AND C.L.W. IN 1970.

#### I CLIMATIC ANALYSIS

# TOPOGRAPHY

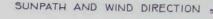
INDEX

OTHERS

WATER BODY

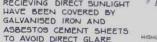
ARABLE LAND

DUM DUM, LOCATED ON THE OUTSKIRTS OF MAIN CITY THAT IS 10 KM FROM THE CITY CENTRE OF KOLKATA. 22"37' NORTH AND 88"25' EAST DEMOGRAPHICS
POPULATION OF DUM DUM COMPRISES OF 52 % MALES AND 48 % FEMALES AVERAGE LITERACY RATE -59.5% ACCESSIBILITY DUM DUM AIRPORT IS LOCATED 3KM AWAY FROM SITE DUM DUM CANTONMENT STATION IS 2KM AWAY FROM SITE. THE SITE IS CONNECTED TO MAIN JESSORE ROAD WHICH THEN CONNECTS





.THE EXTERNAL FACADE RECIEVING DIRECT SUNLIGHT



#### PRESENT SCENARIO

\*THE PRESENT STATE OF THE COMPANY HAS BENEFITED WITH MASS PRODUCTION FOR THE DEVELOPMENT OF INFRASTRUCTURE. .JESSOP AND CO. STILL SUSTAINS SUCCESSFULLY WITH THE SAME PRODUCTIVITY EXCEPT FOR THE PAPER MACHINERY AND BLACKSMITH

SHOP WHICH WERE CLOSED DUE TO TRANSFER OF THE COMPANY FROM PUBLIC SECTOR TO PRIVATE SECTOR IN 2000. .JESSOP'S CRANE DIVISION IS BUSY BRANCHING OUT, ARMED WITH GLOBAL TECHNOLOGICAL ACQUISITIONS IN THE AREA OF CRANES AND
OTHER MATERIAL HANDLING EQUIPMENT.

THE COMPANY'S MANUFACTURING RANGE INCLUDES ALL TYPES OF

WAGONS, E.M.U. COACHES AND METER GAUGE PASSENGER COACHES FOR INDIAN, INTERNATIONAL RAILWAYS LIKE POLAND.EAST AFRICA. VIETNAM AND YUGOSLAVIA AND SEVERAL INDUSTRIAL CUSTOMERS.

1 2 3 4 5 6 7 8 9 10 11 12 .THE COMPANY HAS ACQUIRED FOREIGN TECHNOLOGY IN THE FIELD OF ROAD CONSTRUCTION EQUIPMENTS. STRUCTURAL WORKS ROAD ROLLER WORKS COACH WORKS STRUCTURAL WORKS: 1. FABRICATION UNIT 2. BRIDGE WORKS S FINAL ASSEMBLY SHED S-CHITTARANJAN LOCO WORKS A ADMINISTRATIVE BUILDINGS

JESSORE ROAD S-MANGAL PANDEY ROAD 10-ARABINDA SARAI ROAD

H GORA BAZAAR ROAD SHYAMA PRASAD MUKHERJEE ROAD 13-ENGINEERING BUILDING

INDIAN RAILWAYS BRIDGE

123456783000

1 2 5 4 5 6 7 8 9 10 11 12 MONTHS

1 2 3 4 5 6 7 8 9 10 11 12

# 15 CO-OPERATIVE HOUSING SOCIETY 16 POST OFFICE 17 POND 18 CHURCH

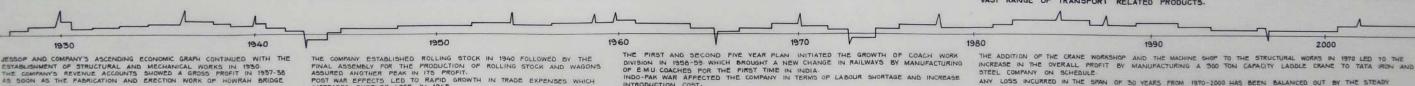
#### SITE JUSTIFICATION

SURROUNDING SETTLEMENT

AYOUT SHOWING PRESENT STATE OF THE SITE AND

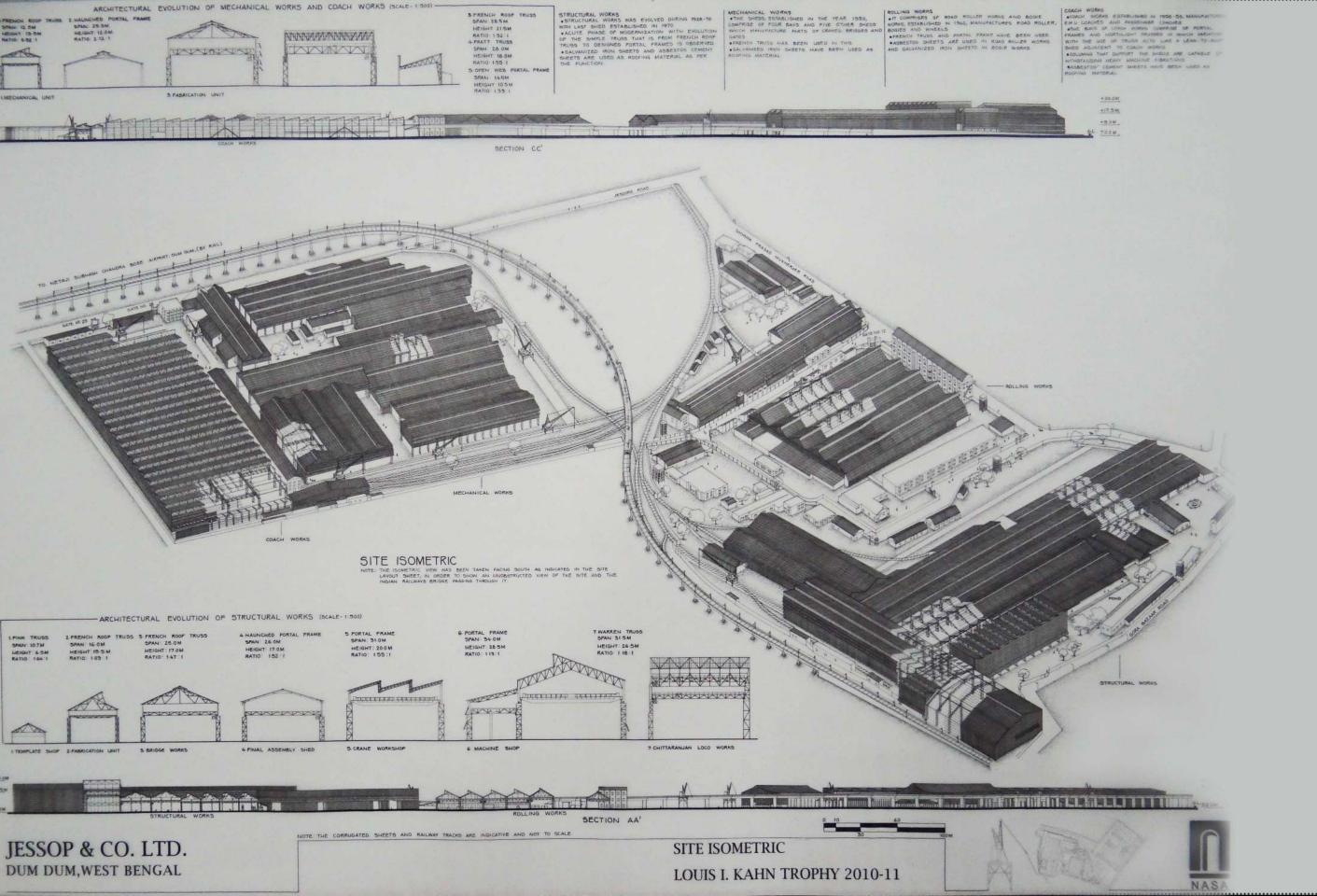
THROUGH THE YEARS A SERIES OF TRANSITIONS HAS SHAPED INDUSTRIAL ARCHITECTURE INTO WELL PLANNED AND ECONOMICALLY DESIGNED BUILDINGS WITH ABILITY TO RESPOND TO THE CHANGING NEEDS OF THE WORLD. OF THE FEW THAT HAVE SURVIVED AGAINST ALL ODDS JESSOP AND CO. IS ONE SUCH INDUSTRY THAT HAS RETAINED ITS GLORY THROUGH THE LONG SPAN OF

INITIALLY BEGUN AS A LEGACY OF BRILLIANT ENGINEERING THE COMPANY DID NOT SHY OF EMBARKING ON MAJOR CHANGES THAT SHAPED THE INDUSTRIAL REVOLUTION. THE COMPANY ALSO MADE AN EFFORT TO MINIMIZE CONSTRUCTION COSTS BY SMART MANAGEMENT OF MATERIALS. TILL DATE, JESSOP AND CO. MAINTAINS ITS STATUS AS A PRIME INDUSTRY BY MANUFACTURING A RANGE OF TRANSPORT RELATED PRODUCTS.



DIVISION IN 1958-59 WHICH BROUGHT A NEW CHANGE IN RAILWAYS BY MANUFACTURING OF EMU COACHES FOR THE FIRST TIME IN INDIA. INDO.-AM WAR AFFECTED THE COMPANY IN TERMS OF LABOUR SHORTAGE AND INCREASE FINAL ASSEMBLY FOR THE PRODUCTION OF ROLLING STOCK AND WAGONS ASSURED ANOTHER PEAK IN ITS PROFIT.
POST WAR EFFECTS LED TO RAPID GROWTH IN TRADE EXPENSES WHICH INCREASED FURTHER LOSS IN 1945. STEEL COMPANY ON SCHEDULE ANY LOSS INCURRED IN THE SPAN OF 30 YEARS FROM 1970-2000 HAS BEEN BALANCED OUT BY THE STEADY

RATE OF PRODUCTION MAINTAINED BY THE COMPANY



Jessop & Company not only pushed the limits of engineering feats but also pioneered in the steel construction which had just started to take its hold in the country at that time.

This exploded site isometric view was drafted to show the same along with the vastness of the site at a zoomed out level.

As a team of 40 students, we documented the whole site and prepared 20 A1 sheets comprising the scaled drawings.

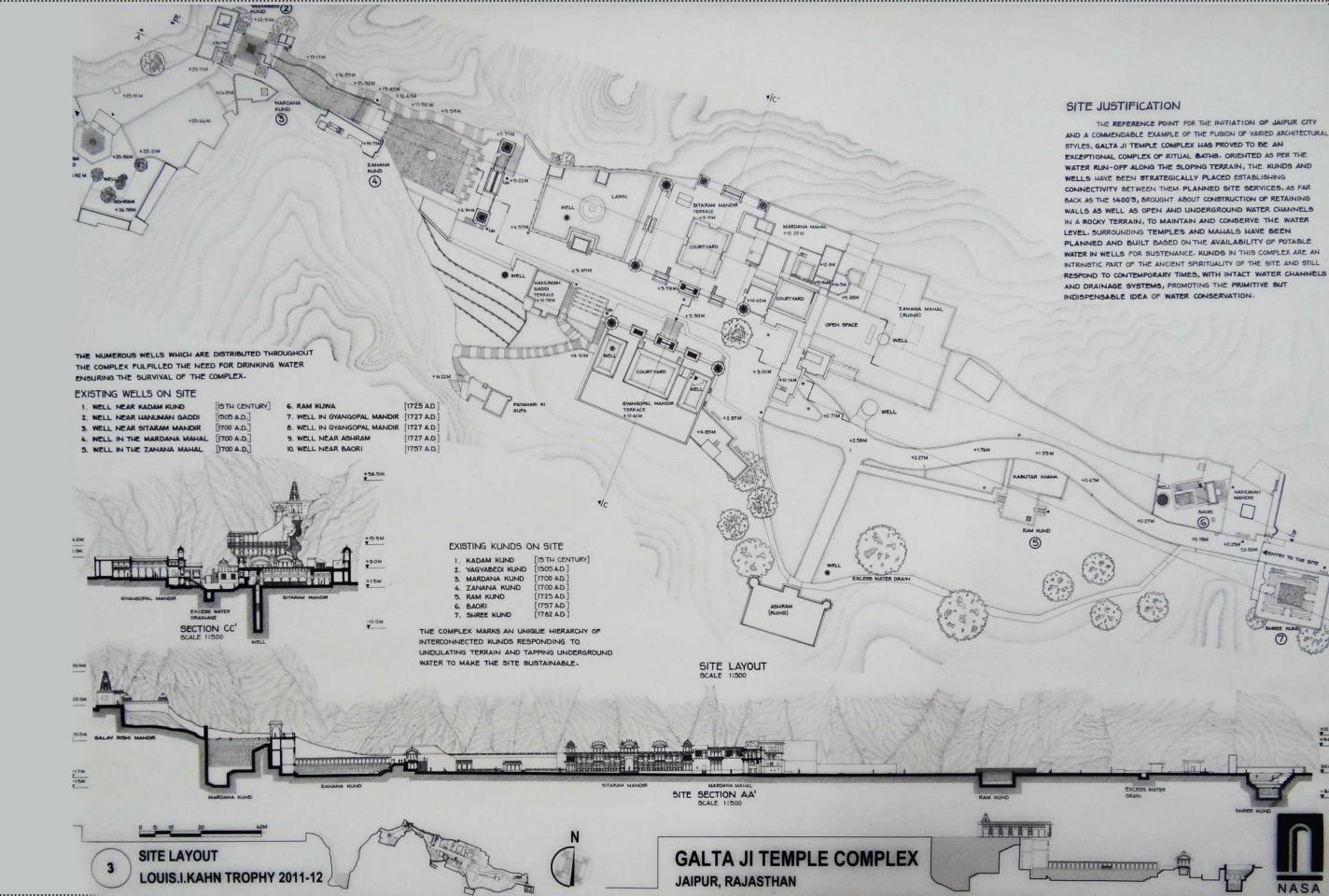
As a student of Third Year B. Arch, my contribution to the trophy that year was the documentation and drafting of the exploded site isometric view.

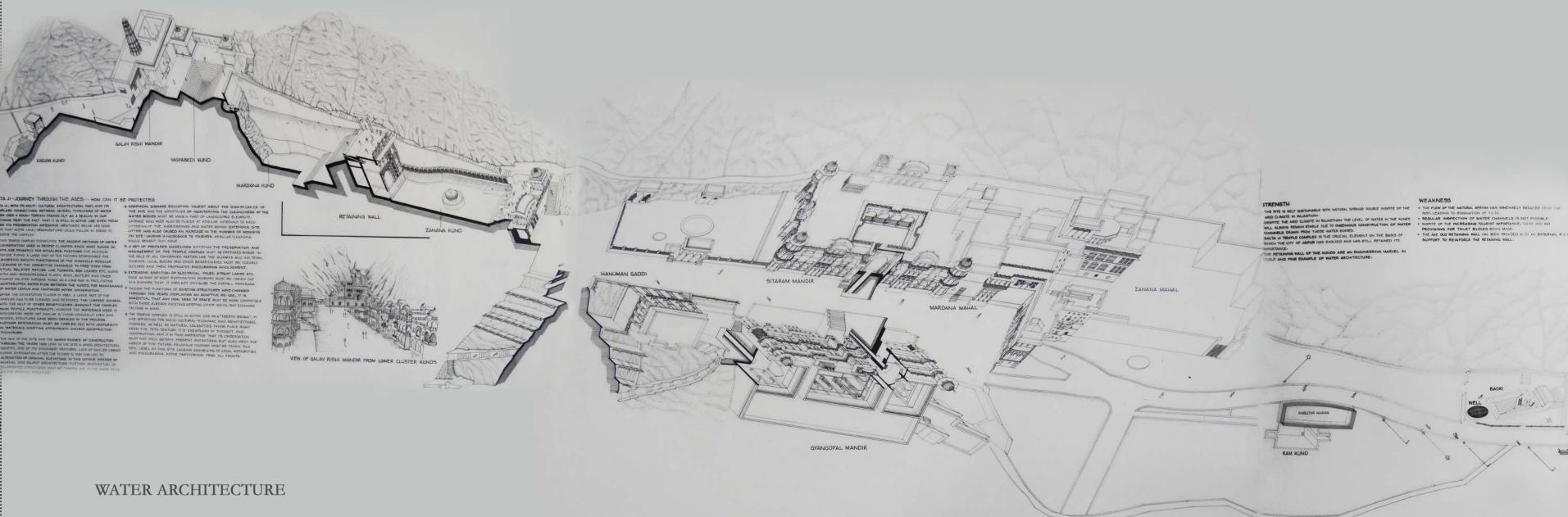
### WATER ARCHITECTURE

Stretching out linearly in a valley between two mountains, this site connects 9 kunds/step wells with underground pipes.

with underground pipes.

The connections are so simple yet intrcately done centuries ago during a time when technology was a faraway thought.





Three A1 sheets were joined to make this gigatic view of Galti temple complex.

It represents the different contours and the narrowness of the site. By exploding the view, the internal and underground connections along with the depths of the various wells were made apparent.

As a student of Third Year B. Arch, my contribution to the trophy that year was the documentation and drafting of the exploded site isometric view and details.