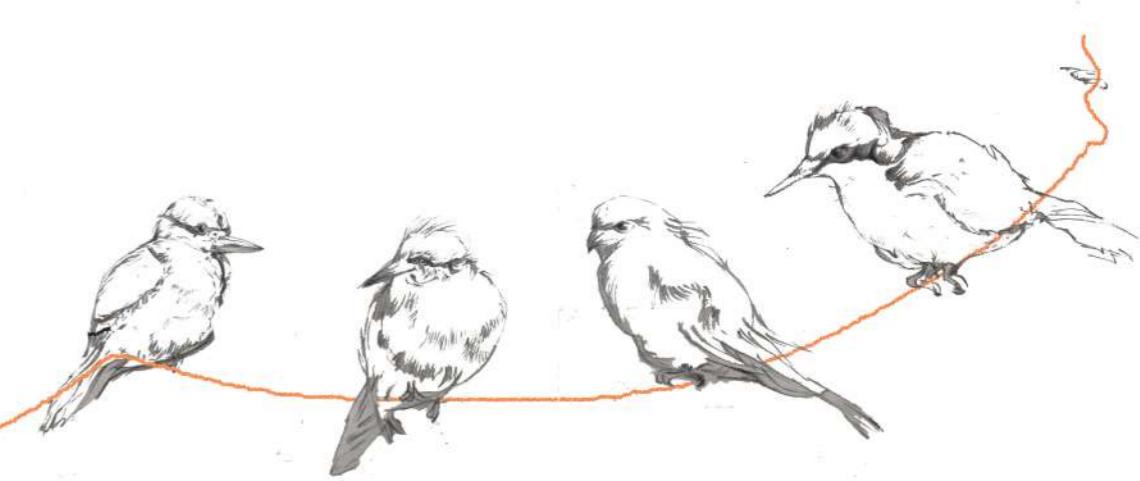


PORTFOLIO

2018 - 19

UG180379







PROJECTS

# AYATANA

## READING CENTRE AT SARDAR BAUG

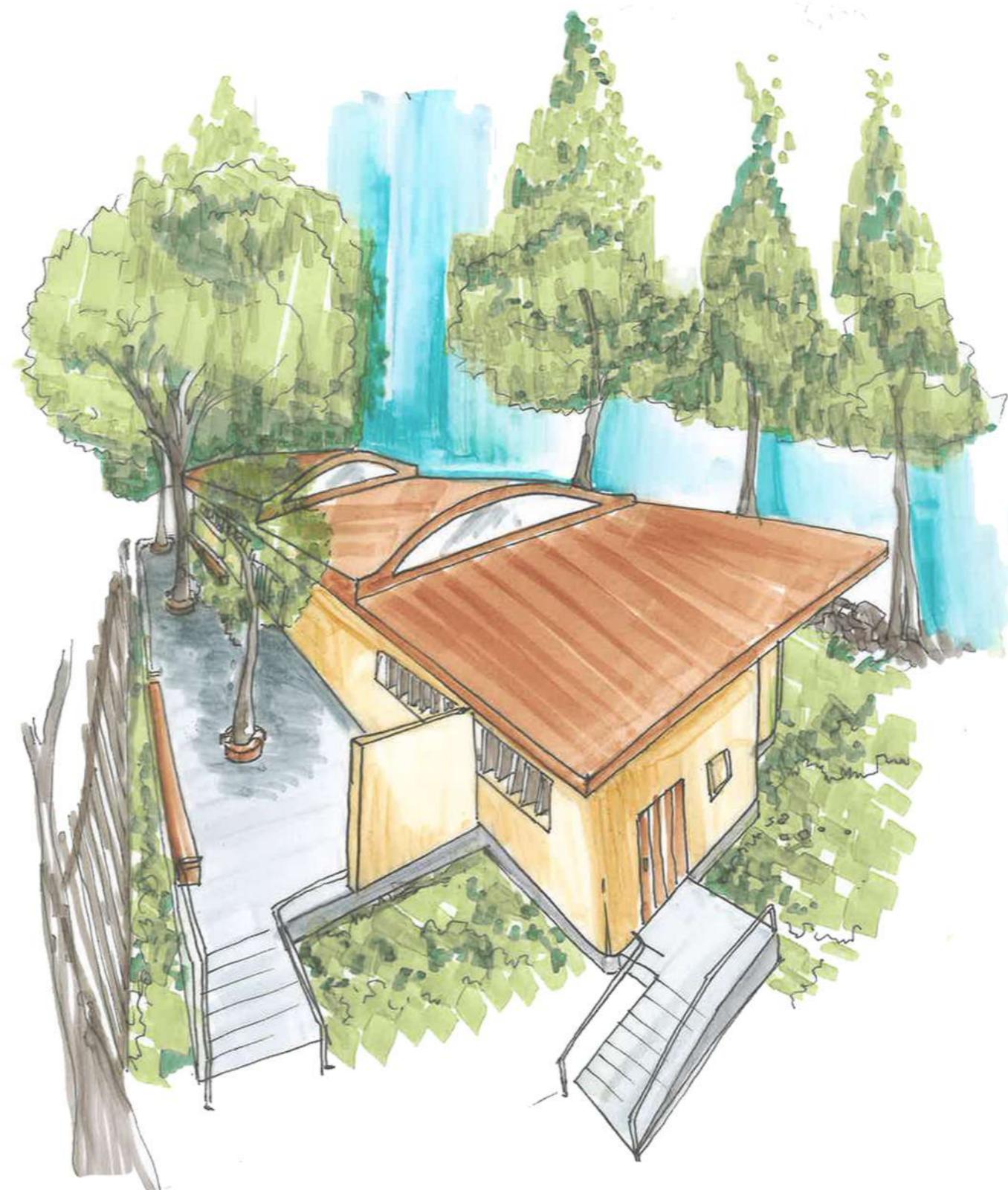
HAND DRAWING - PHOTOSHOP - ILLUSTRATOR

### INTENT:

IN A PUBLIC GARDEN LIKE SARDAR BAUG WHERE PEOPLE OF ALL AGES AND COMMUNITIES COME TOGETHER, A READING CENTRE FOR THE VISUALLY IMPAIRED AND BLIND COMMUNITY ENCOURAGES THEIR INTERACTION WITH GENERAL PUBLIC.

THE CENTRE IS DESIGNED SENSITIVE TO THE NEEDS OF THE USER. IT IS RESPONSIVE TO TACTILE SENSES AND ENSURES MINIMUM PHYSICAL EFFORT. THE LINEAR FORM FACILITATES EASY CIRCULATION. THE JOURNEY OF A USER INSIDE THE SPACE IS WELL GUIDED USING SAFETY MEASURES.

THE PERCEPTION OF DIFFERENT SPACES IS ENSURED THROUGH CONTRASTS IN COLOUR, MATERIAL AND LEVELS. THE CENTRE IS HOME TO A WIDE COLLECTION OF BRAILLE BOOKS AND AUDIOBOOKS. IT WELCOMES GENERAL USERS AS WELL TO INTERACT WITH THIS COMMUNITY IN STORYTELLING SESSIONS IN THE ARMS OF NATURE.



# AYATANA

READING CENTRE AT SARDAR BAUG

HAND DRAWING-PHOTOSHOP-ILLUSTRATOR

## PROGRAM:

### BOOKS:

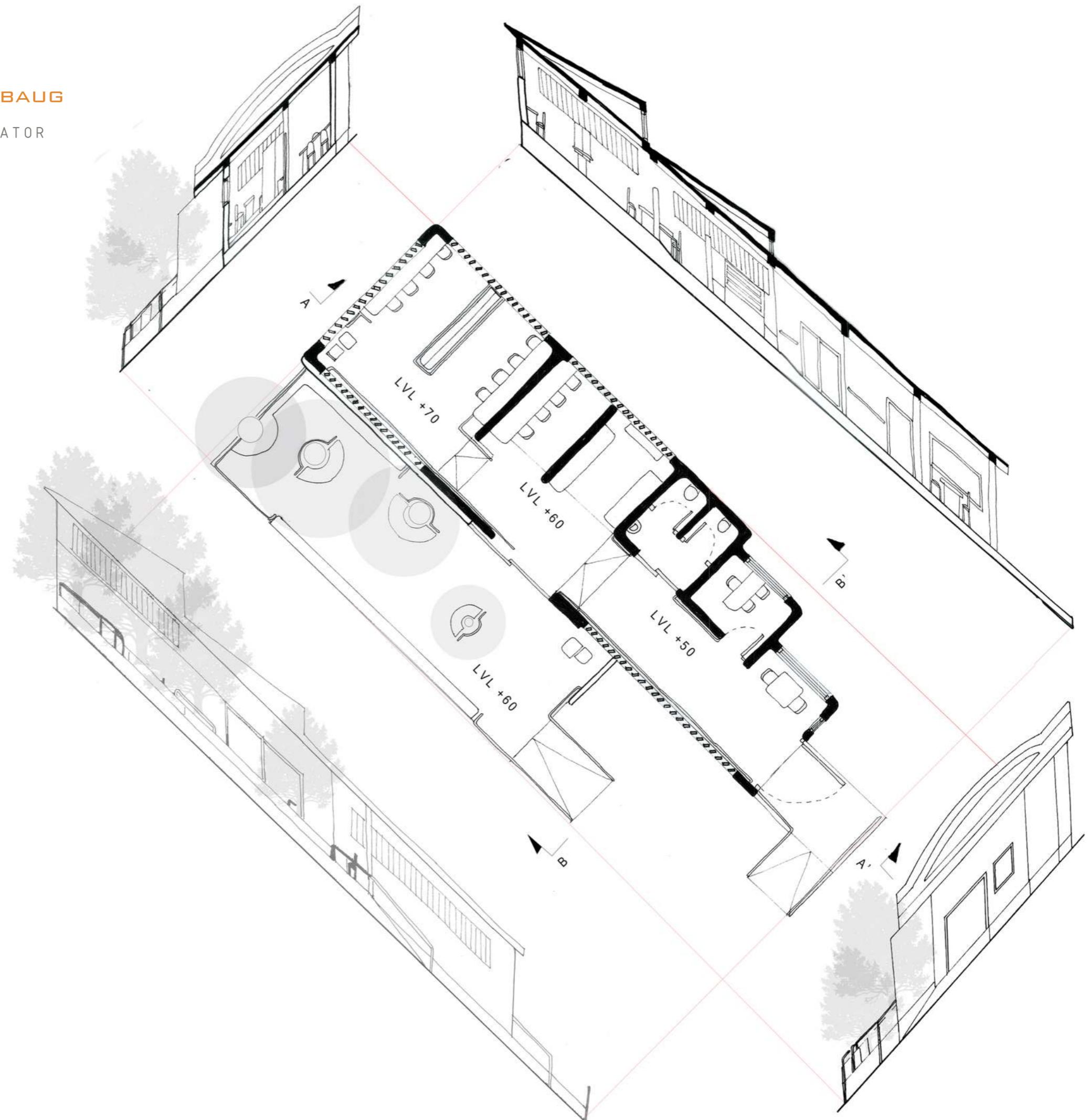
- BRAILLE BOOKS
- AUDIO BOOKS
- GENERAL BOOKS

## FACILITIES:

READING ROOM  
AUDIO ROOM  
COMMON AUDIO  
ROOM

SERVICE BLOCK  
OPEN STORYTELLING  
AREA

SUPPORT STAFF  
ADMINISTRATION AND  
INFORMATION DESK

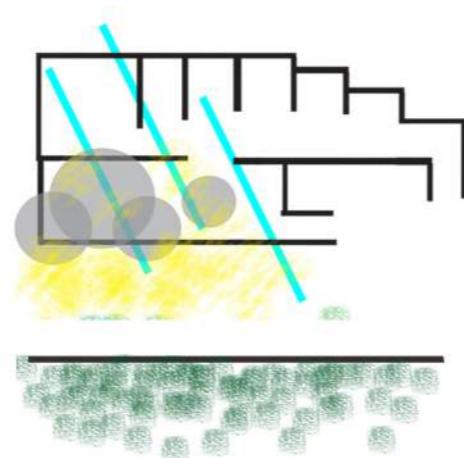
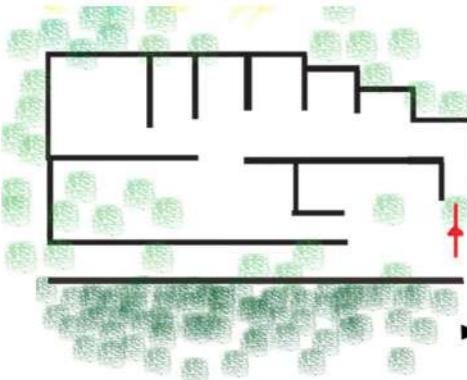


# AYATANA

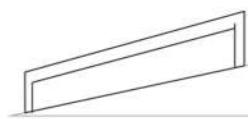
## READING CENTRE AT SARDAR BAUG

HAND DRAWING-PHOTOSHOP-ILLUSTRATOR

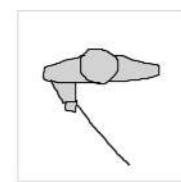
### SITE CONTEXT



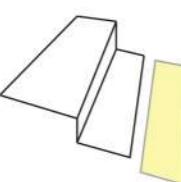
### RESEARCH



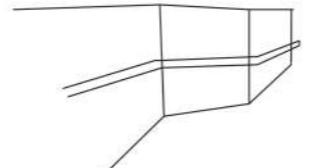
GRADUAL SLOPE OF  
THE RATIO 1:10 FOR  
SMOOTH



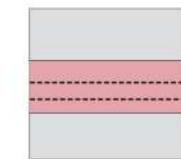
WALKING SPACE  
REQUIRED BY ONE  
USER IS 1 SQ.M.  
RADIAL SPACE IS  
LEFT FOR MOVEMENT  
OF THE CANE.



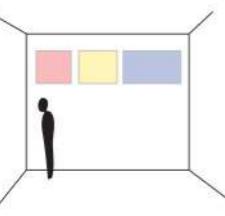
WARNINGS BEFORE  
STEPS ATLEAST 50  
CM AWAY



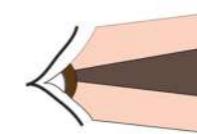
TACTILE TILES FOR  
DIRECTIONAL CUES.



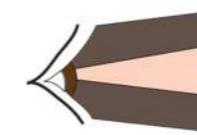
WINDOWS PLACED  
ABOVE EYE LEVEL TO  
AVOID DISTRACTIONS  
AND ENHANCE  
FOCUS, COLOURED  
GLASS WINDOWS  
FOR DISTINGUISHING  
SPACES



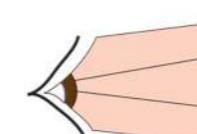
### USERS



PERIPHERALLY  
BLUR VISION



CENTRALLY BLUR  
VISION



COMPLETE BLUR  
VISION



COMPLETE  
BLINDNESS

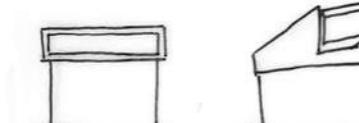
### FORM EXPLORATION

COLOUR  
CONTRASTS TO  
AVOID

CONCEPT OF A  
CENTRAL SPACE FOR  
PERCEPTION AND AN  
OUTER SUPPORTING,  
PROTECTIVE LAYER  
DERIVED FROM AN  
EYE.

CUSTOM MADE  
WALLS OF SPECIFIC  
LENGTHS FOR  
REMEMBERING THE  
OCCURRENCE OF A  
CERTAIN SPACE.

AVOID SUDDEN  
LEVEL  
DIFFERENCES OF  
MORE THAN 5 CM.



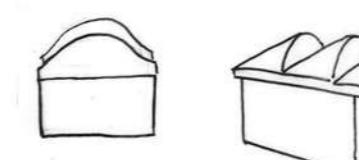
MATERIAL  
DIFFERENCES AS  
DIRECTIONAL CUES



AVOID SUDDEN  
OBSTACLES

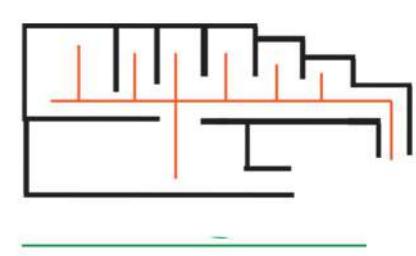
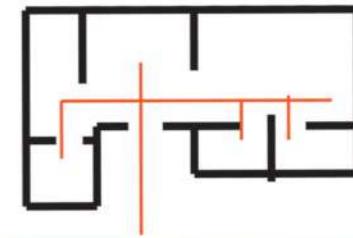
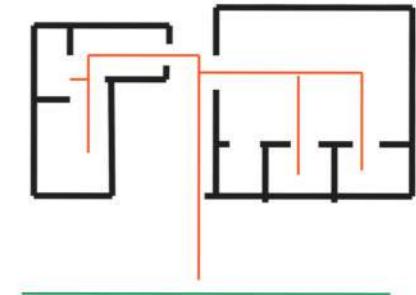
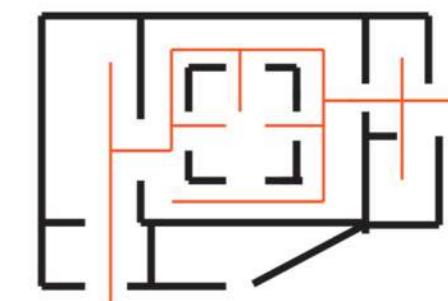


AVOID GLARING  
LIGHTS WHICH  
DISTURB THE EYES  
OF THE USER



### LAYOUT EXPLORATION

EVOLUTION OF LAYOUT  
BY RESOLVING  
SMALLER PATHWAYS TO  
REACH A LINEAR FORM  
WITH NO SHARP TURNS  
AND BETTER  
NAVIGATION



# AYATANA

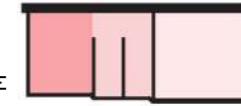
## READING CENTRE AT SARDAR BAUG

HAND DRAWING - PHOTOSHOP - ILLUSTRATOR

### LEVELS

#### CONCEPTS

- SERVICES
- AUDIOROOMS
- READING SPACE



CHANGE IN LEVELS FROM ONE GROUP OF SPACES TO THE OTHER

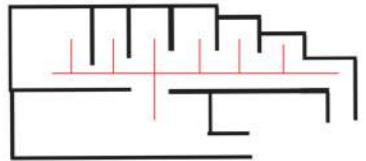


WALLS WITH CURVED EDGES FOR SOFT CORNERS TO AVOID INJURY



A CONTINUOUS RAILING ON THE LEFT OF THE CORRIDOR. RAILINGS AROUND THE TREE SEATINGS.

### CIRCULATION AND PROPORTION



LINEAR CORRIDOR FOR EASY CIRCULATION. EACH NEW SPACE OCCURS AFTER AN EQUAL DISTANCE OF 3M.

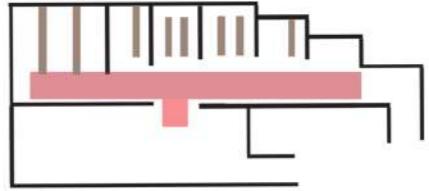


WIDE CORRIDORS FOR FREE MOVEMENT



USE OF LOGOS, BRAILLE AND COLOURS FOR RECOGNITION AND DISTINCTION

### MATERIAL



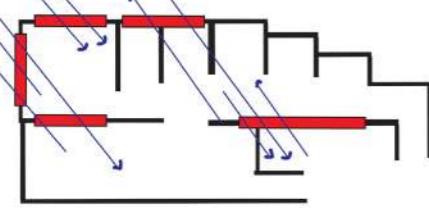
TACTILE TILES TO AID MOVEMENT AND AVOID OBSTACLES

- TILES FOR MAIN CIRCULATION
- TILES FOR CIRCULATION AROUND FURNITURE

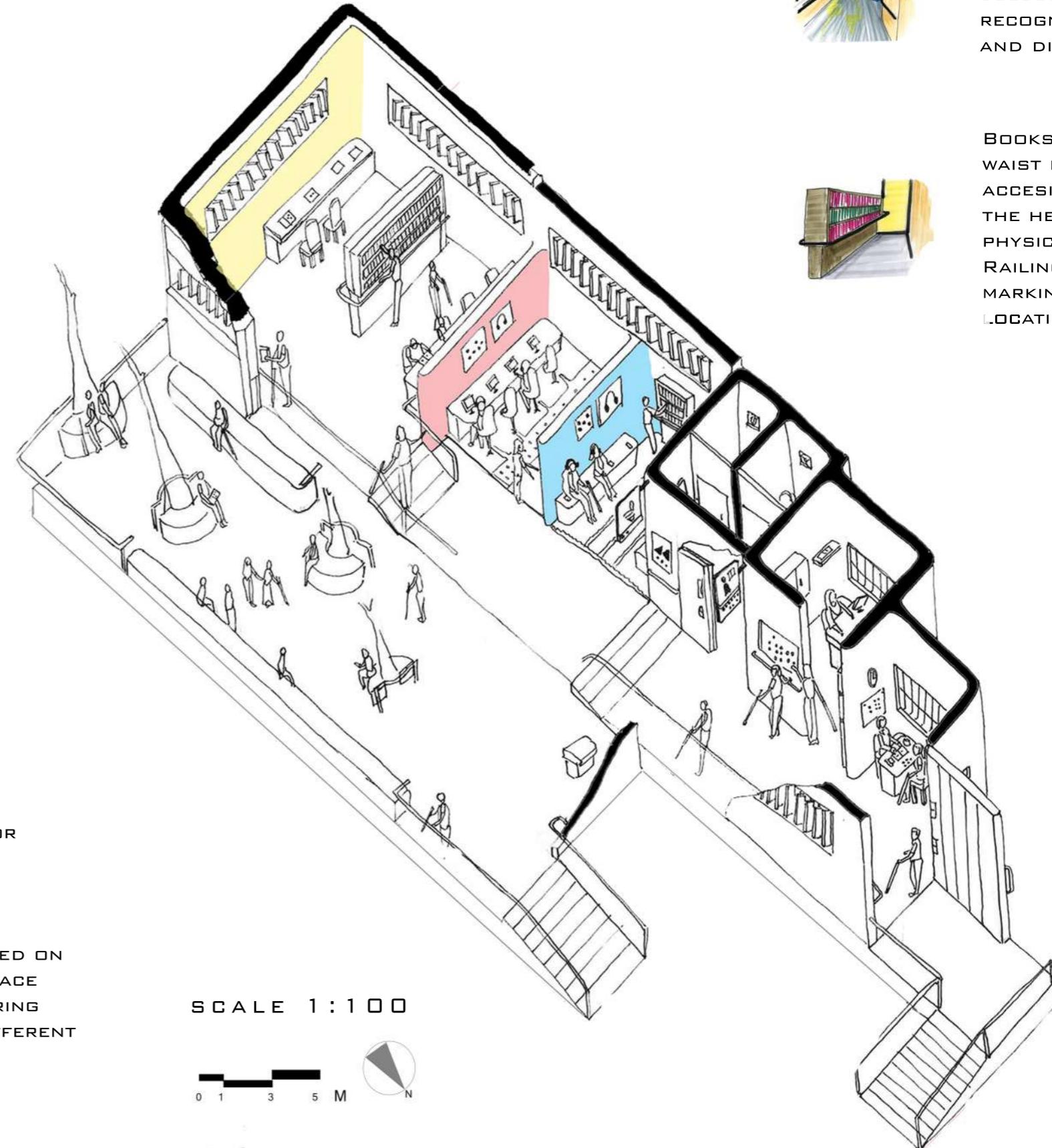


BOOKSHELVES FROM WAIST LEVEL TO AN ACCESIBLE LEVEL ABOVE THE HEAD FOR REDUCED PHYSICAL EFFORT. RAILINGS WITH BRAILLE MARKINGS FOR BOOK LOCATION

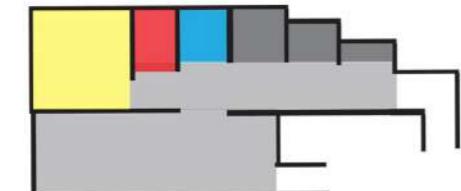
### VENTILATION



VERTICAL LOUVRES FOR CROSS VENTILATION .



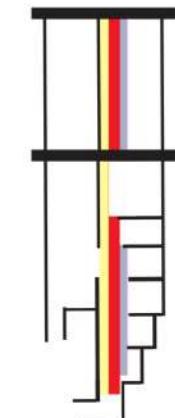
### MATERIAL AND SOUND



- M1 FLOORING MATERIAL
- M2 DIFFERENCE HELPS
- M3 IN RECOGNISING
- M4 DIFFERENT SPACES
- M5 THROUGH :

- TOUCH BY BARE FEET
- DIFFERENCE IN SOUND RESONATED BY CANE STICK ON THE FLOOR

### COLOUR



DIFFERENT COLOURS ENABLING CONTRASTS ARE USED ON THE FLOOR LEADING A USER TO THE RESPECTIVE SPACE WHOSE FACADE BEARS THE SAME COLOUR. STAGGERING COLOURED WALLS HELP THE USER TO VIEW THE DIFFERENT SPACES AT ONE GLANCE.

# VARANASI

## STUDYING GHATS AND HUMAN ACTIVITIES

SKETCHING- PEN-WATERCOLOUR- ALCOHOL  
MARKERS-BRUSHPENS  
RHINO-PHOTOSHOP

PANDEY AND DIGPATIYA  
GHATS WERE LIVELY  
LOCATIONS, BLOOMING  
WITH LOCALS AND  
TOURISTS ENGAGED IN  
VARIOUS ACTIVITIES.  
HERE IS A HUMBLE  
ATTEMPT TO CAPTURE  
THE ESSENCE OF LIFE AT  
THESE GHATS.

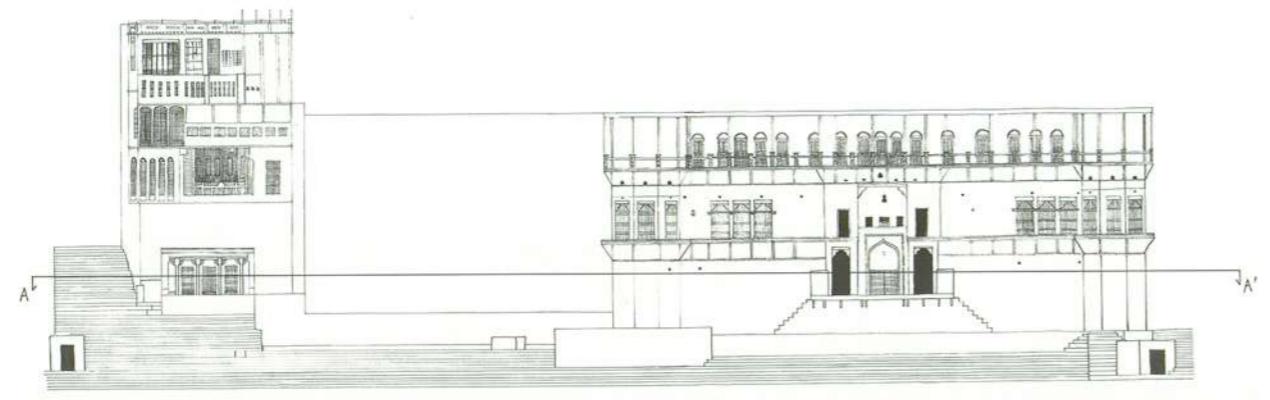


# VARANASI

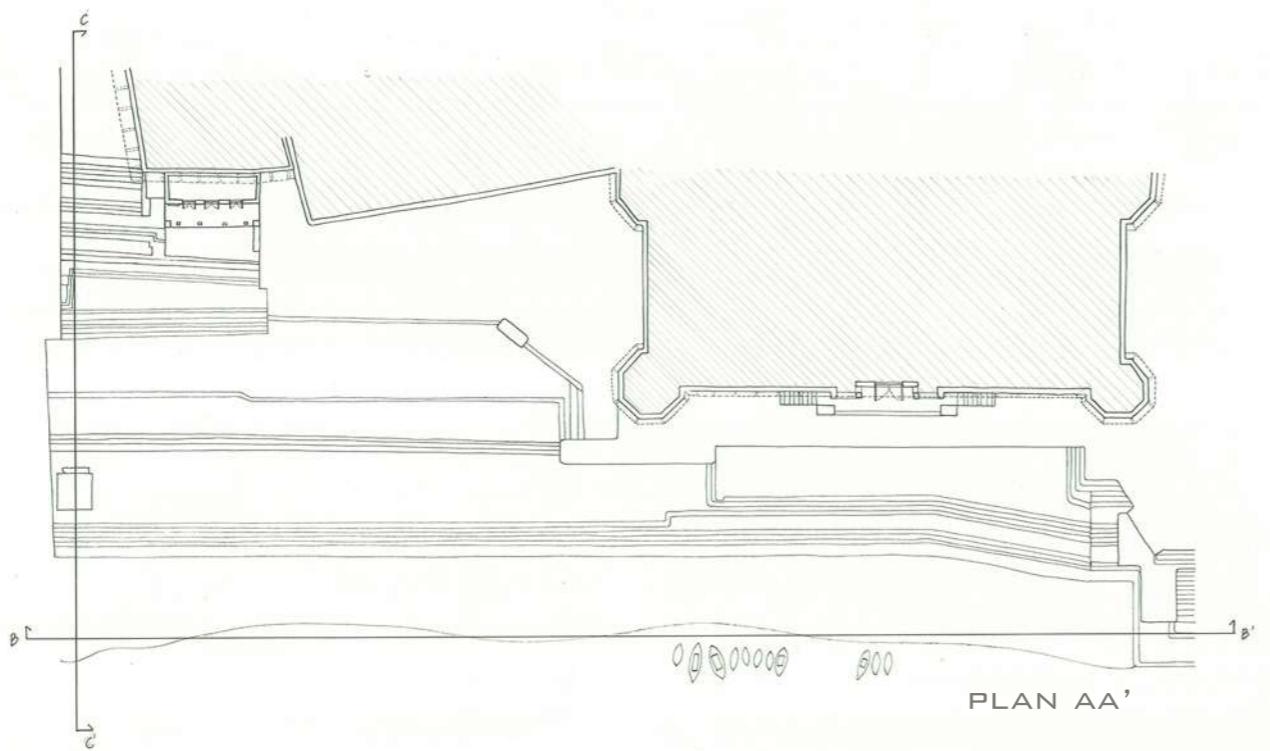
## STUDYING GHATS AND HUMAN ACTIVITIES

HAND DRAWING

PANDEY AND DIGPATIYA GHATS



ELEVATION BB'



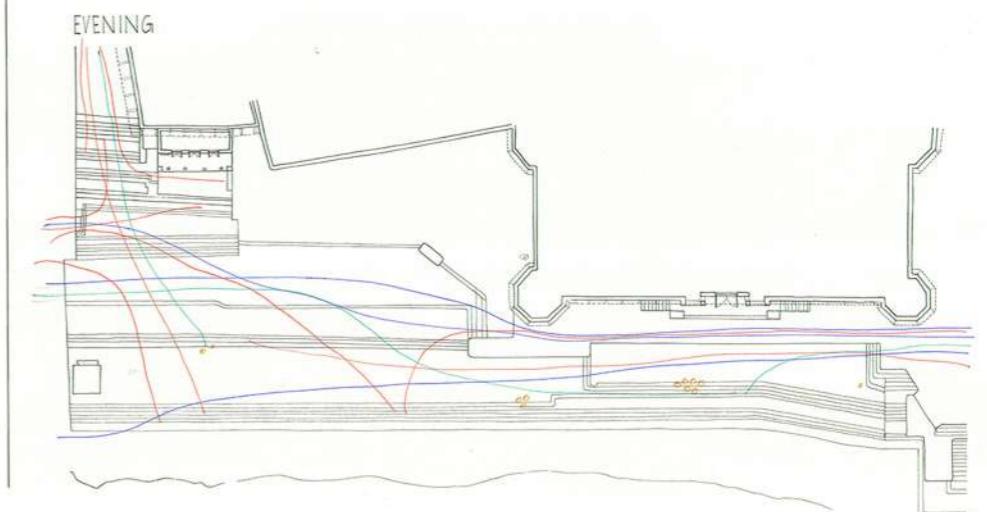
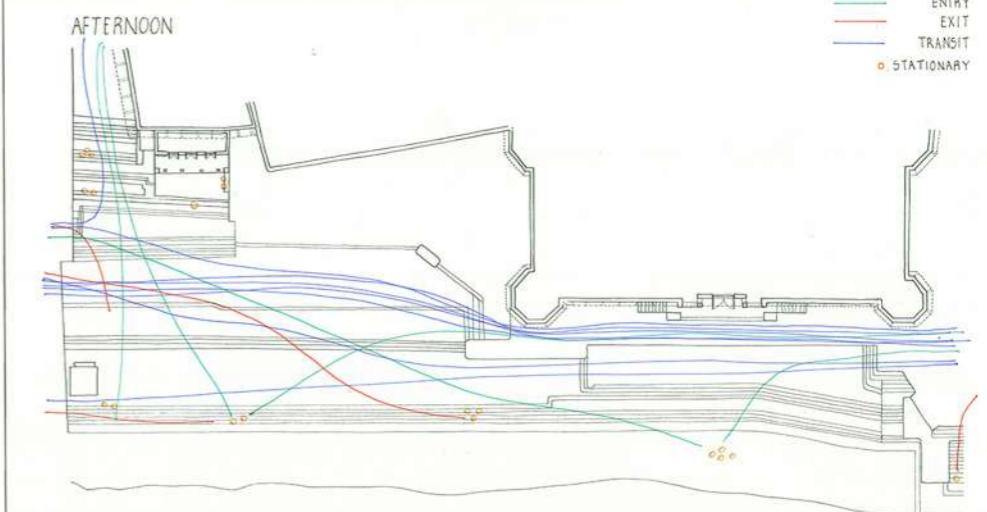
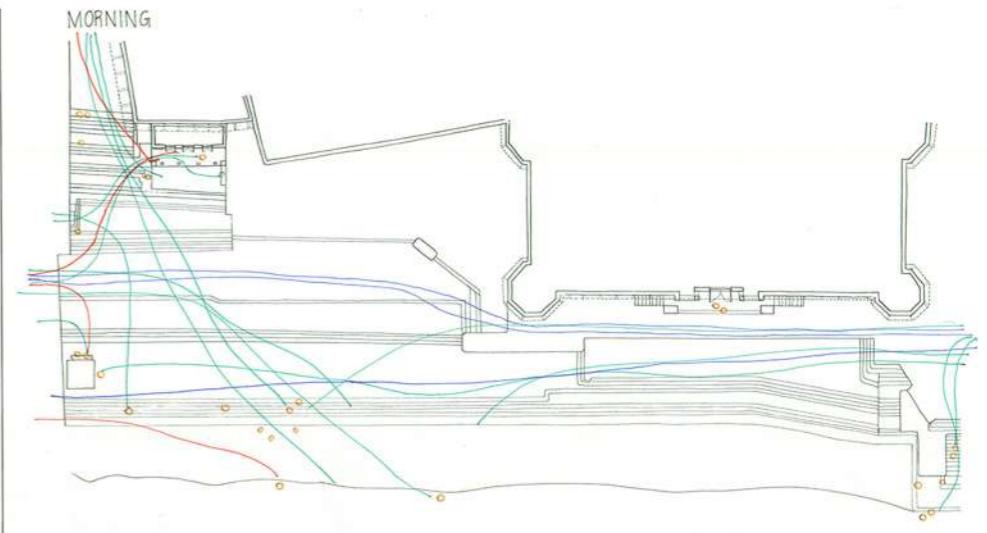
PLAN AA'

SECTION CC'



1:200

MOVEMENT MAPPING



# VARANASI

## STUDYING GHATS AND HUMAN ACTIVITIES

HAND DRAWING - WATERCOLOUR



cold winter winds blow through the evening sky  
the lack of lights forced few to say goodbye  
a few walking by, stop for some chai  
and sit on the steps to admire the night.

The sun's early rays spread across the sky  
some bathe, wash clothes and spread them out to dry  
Hanuman inspires a few to exercise  
while few boats sail away to help a few unwind

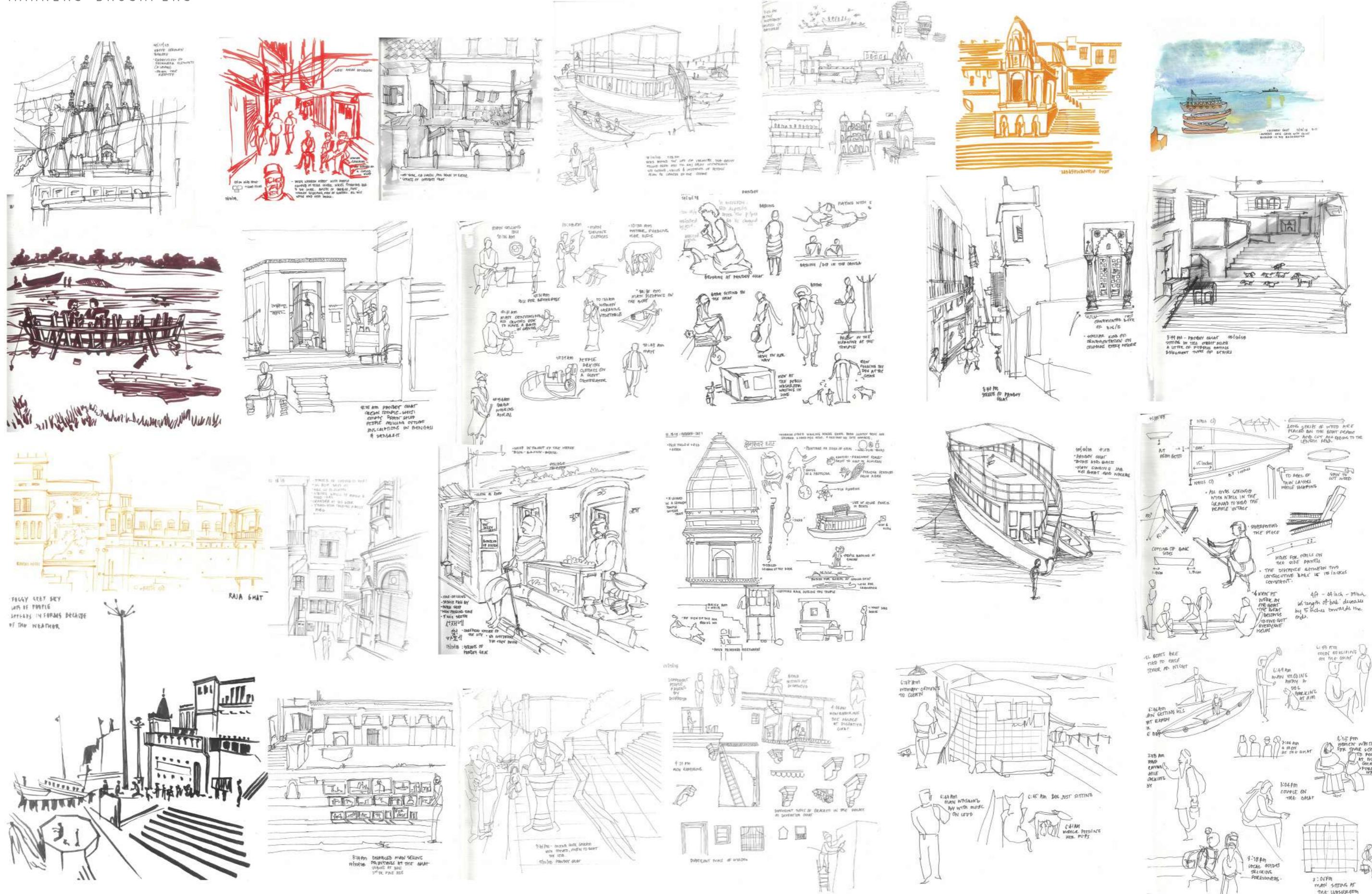
Harsh blinding rays cut through the sky  
some make fishnets and boats while tourists pass by  
an artist sells his pieces of the perfect city of lights  
while a few fix the ruins nearby.

ILLUSTRATIVE REPRESENTATION OF HUMAN ACTIVITIES AT THE GHAT IN DIFFERENT TIME SLOTS

VARANASI

## STUDYING GHATS AND HUMAN ACTIVITIES

# SKETCHING- PEN-WATERCOLOUR- ALCOHOL MARKERS-BRUSHPENS





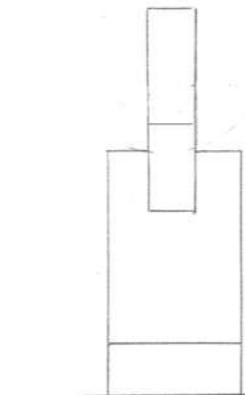
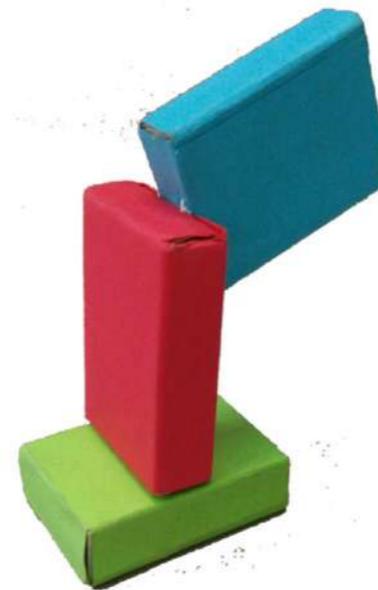
TECHNICAL DRAWING

# DRAFTING DRAWINGS

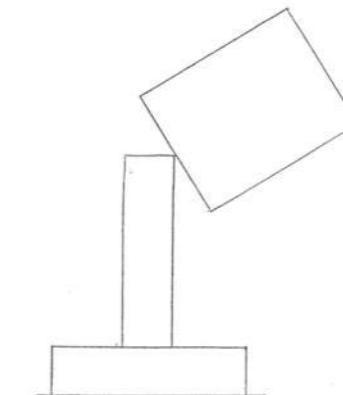
## TECHNICAL DRAWING

HAND-DRAWING

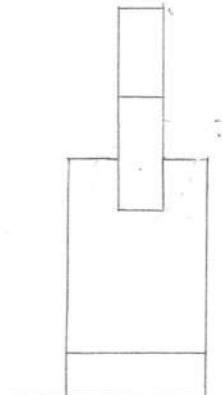
THE IDEA WAS TO  
UNDERSTAND  
DIFFERENT VIEWS OF A  
FORM BY MAKING A  
MODEL OF IT.



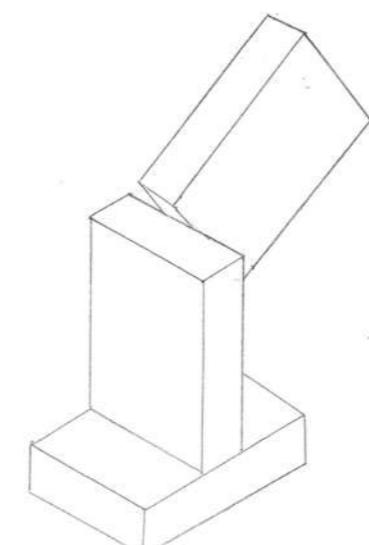
RIGHT ELEVATION



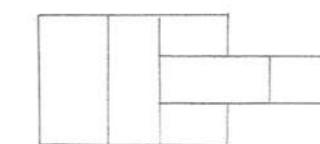
FRONT ELEVATION



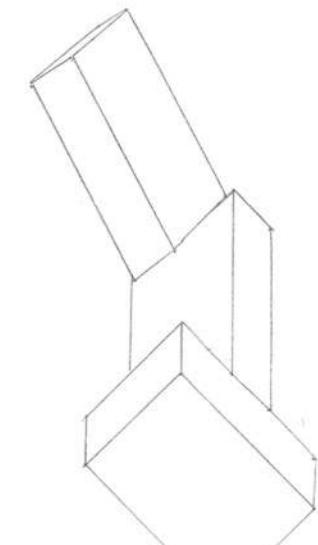
LEFT ELEVATION



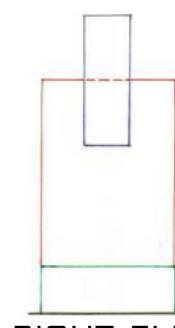
ISOMETRIC VIEW



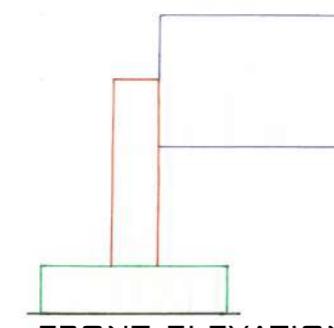
PLAN



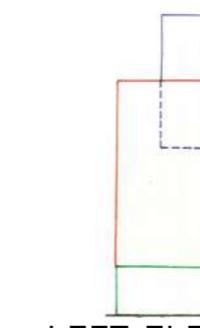
AXONOMETRIC VIEW



RIGHT ELEVATION



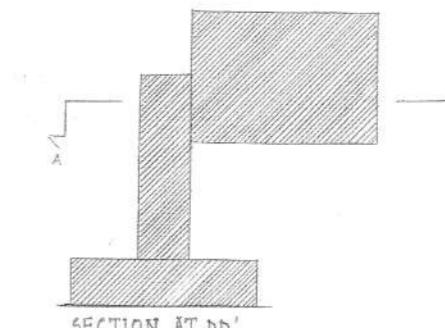
FRONT ELEVATION



LEFT ELEVATION



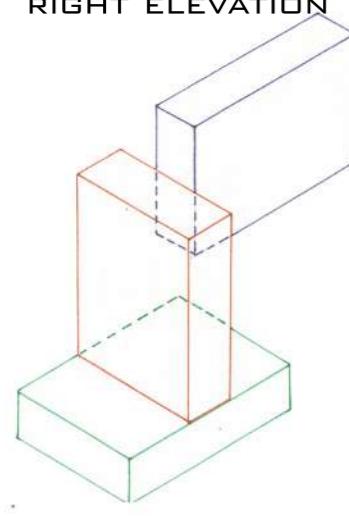
SECTION AT CC'



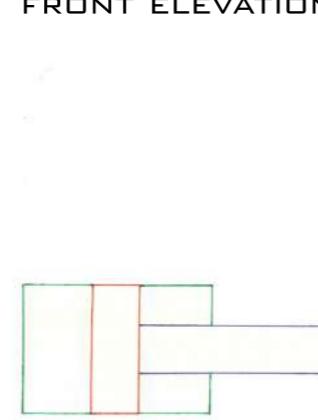
SECTION AT DD'



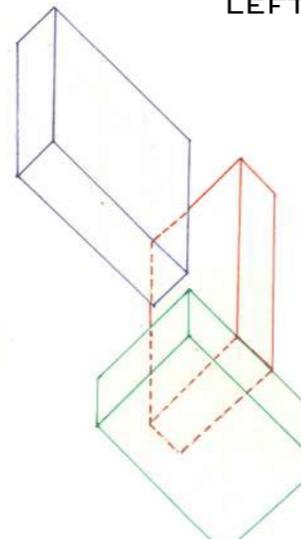
SECTION AT BB'



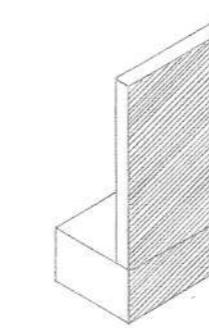
ISOMETRIC VIEW



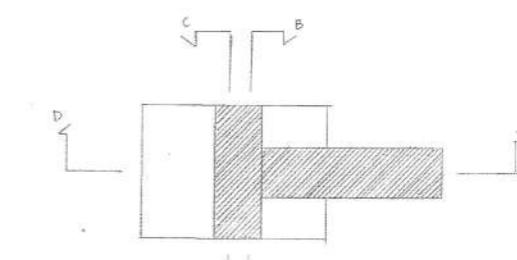
PLAN



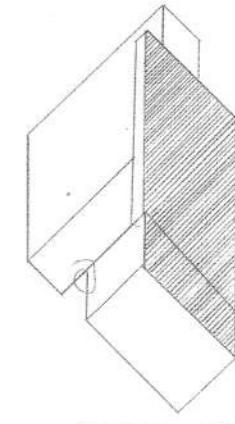
AXONOMETRIC VIEW



SECTIONAL ISOMETRIC



1 : 1



SECTIONAL AXONOMETRIC

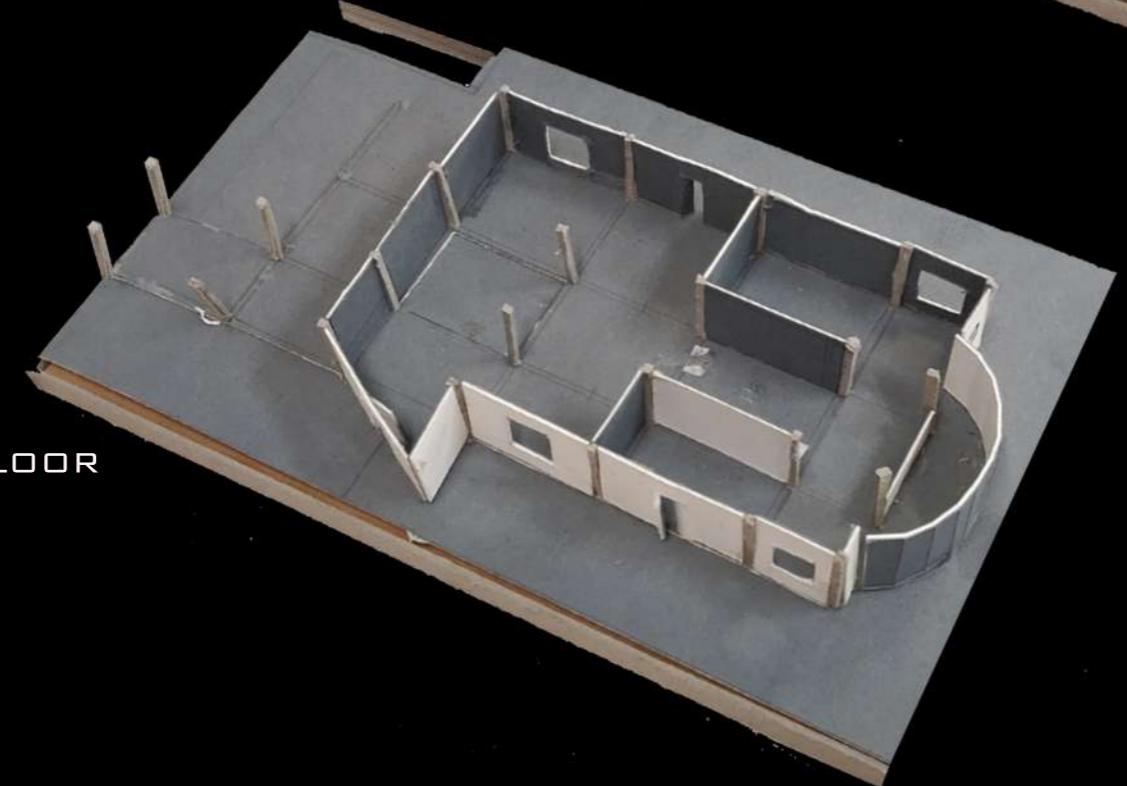
## DRAFTING

## DRAWINGS

TECHNICAL DRAWING

HAND-DRAWING

THE DIFFERENT VIEWS  
OF A BUILDING WERE  
DRAFTED BY MAKING A  
MODEL FOR IT.



GROUND FLOOR



FIRST FLOOR



TERRACE

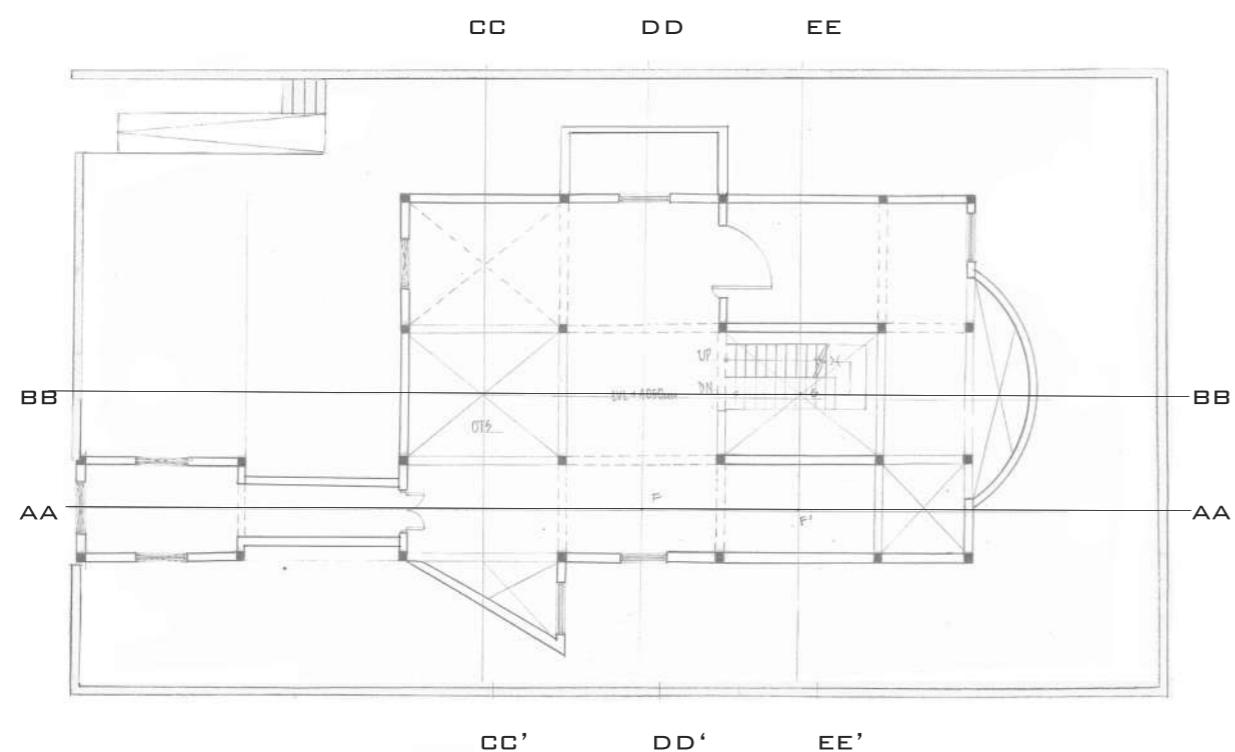


# DRAFTING DRAWINGS

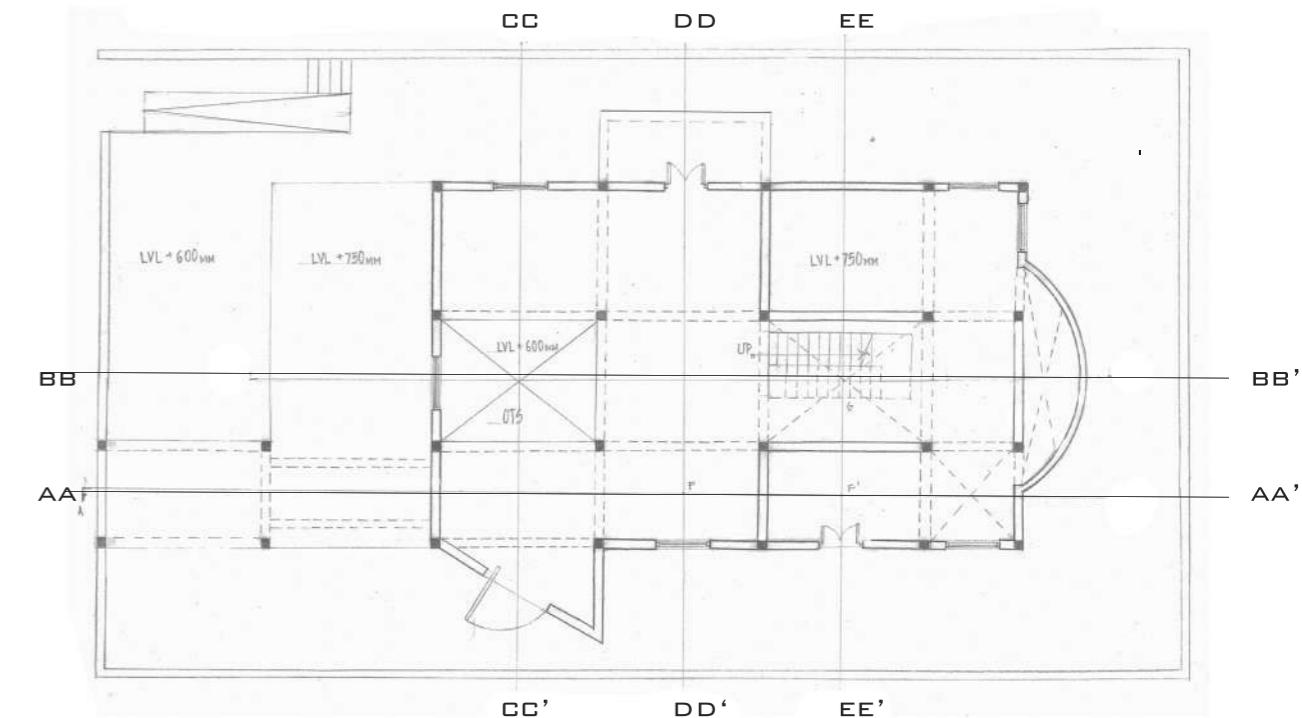
TECHNICAL DRAWING

HAND-DRAWING

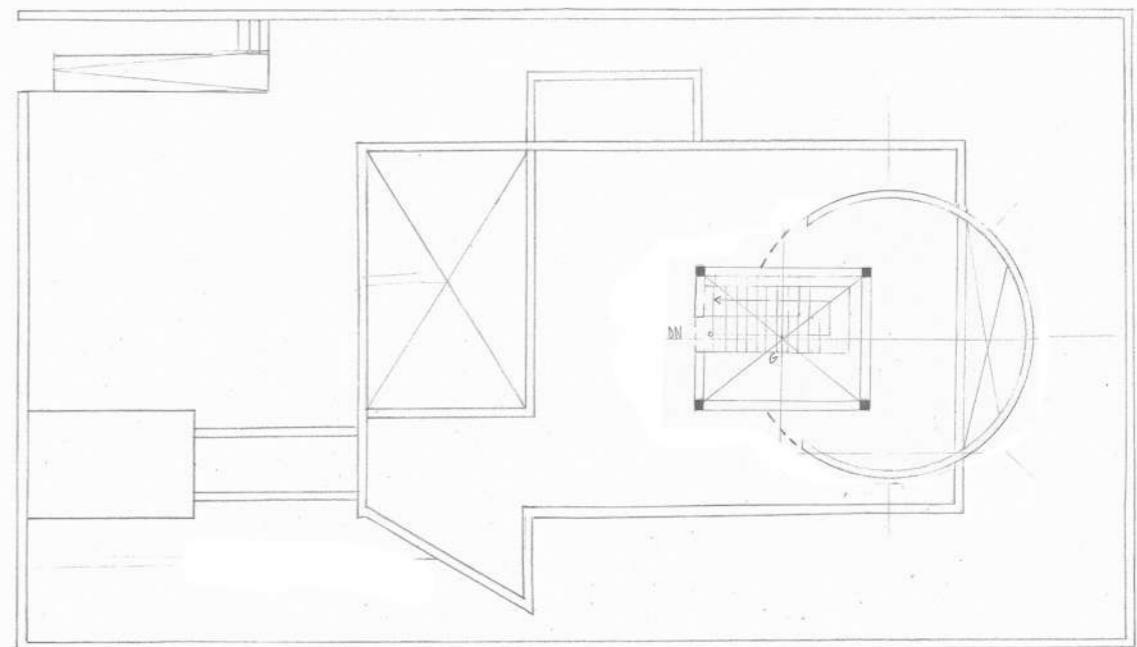
SCALE 1:100



FIRST FLOOR PLAN AT +5550MM



GROUND FLOOR PLAN AT +2250MM



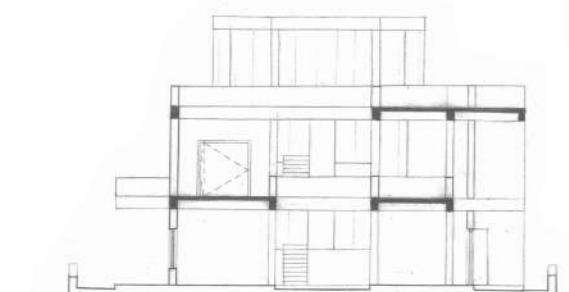
TERRACE PLAN AT +8850MM

# DRAFTING DRAWINGS

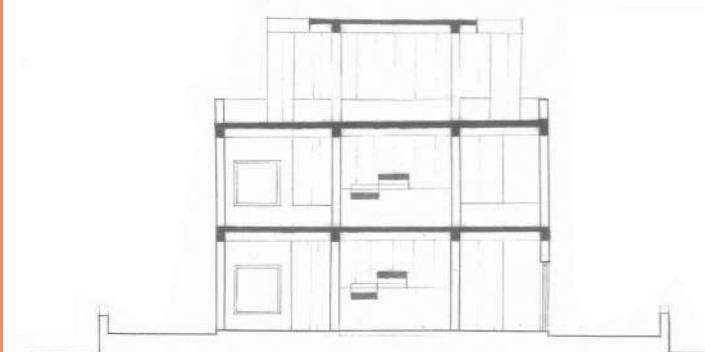
TECHNICAL DRAWING

HAND-DRAWING

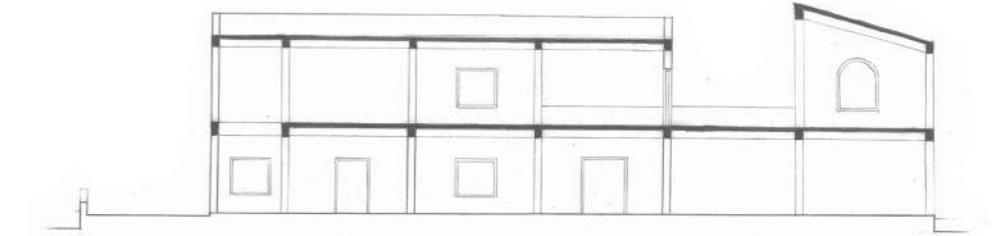
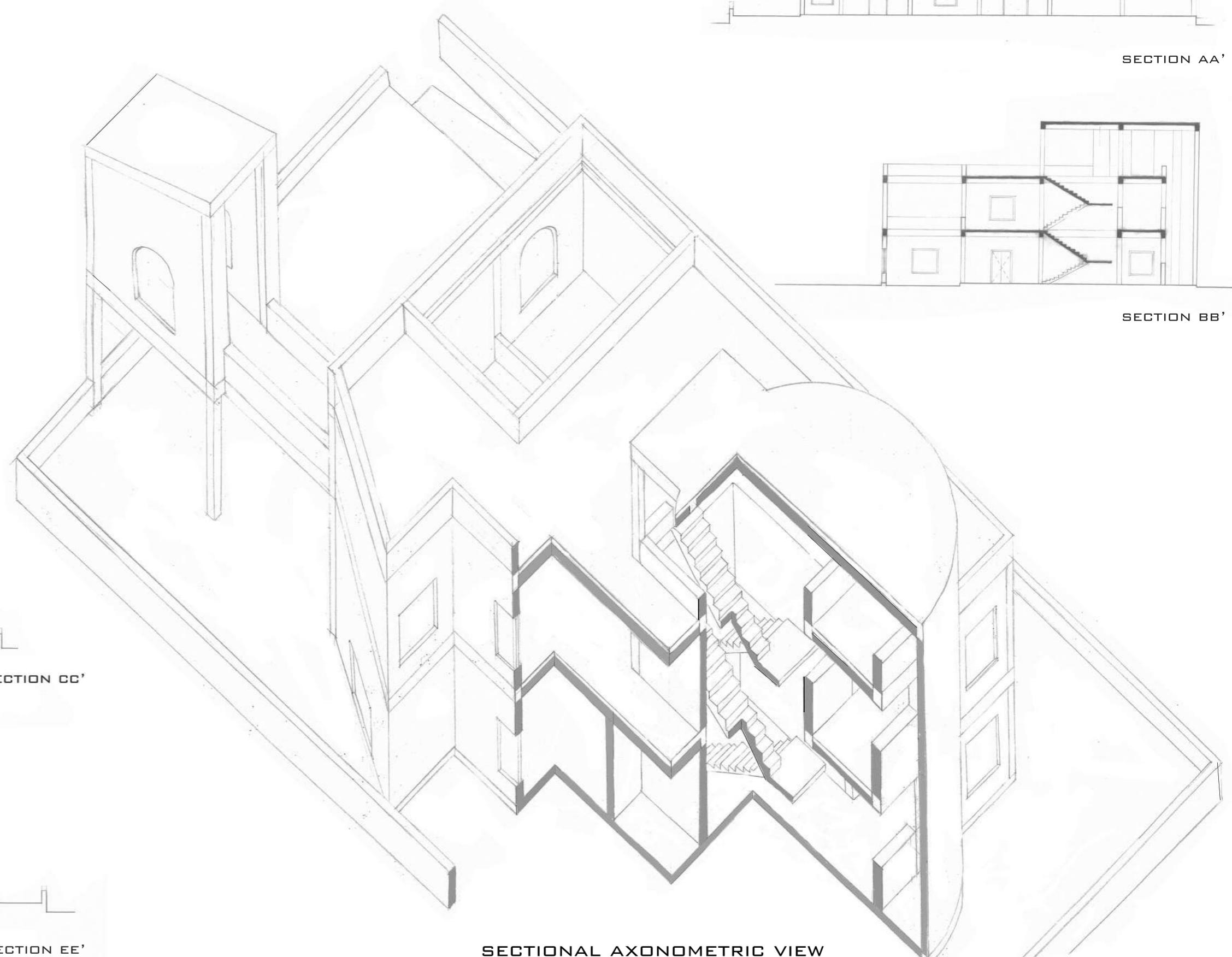
SCALE 1:100



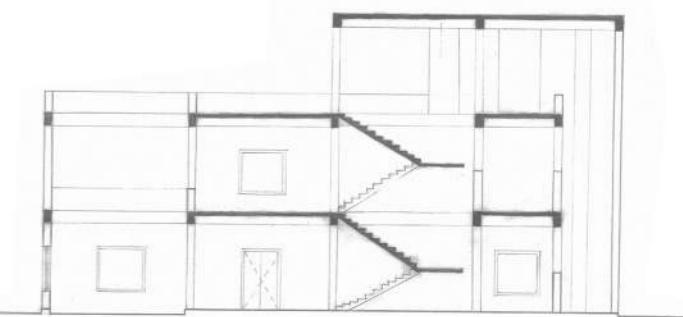
SECTION CC'



SECTION EE'



SECTION AA'



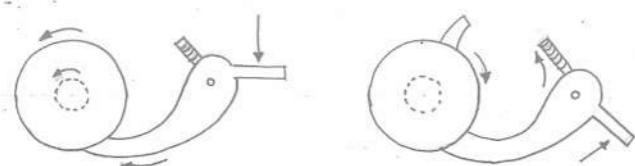
SECTION BB'

# BONES OF THE BELL

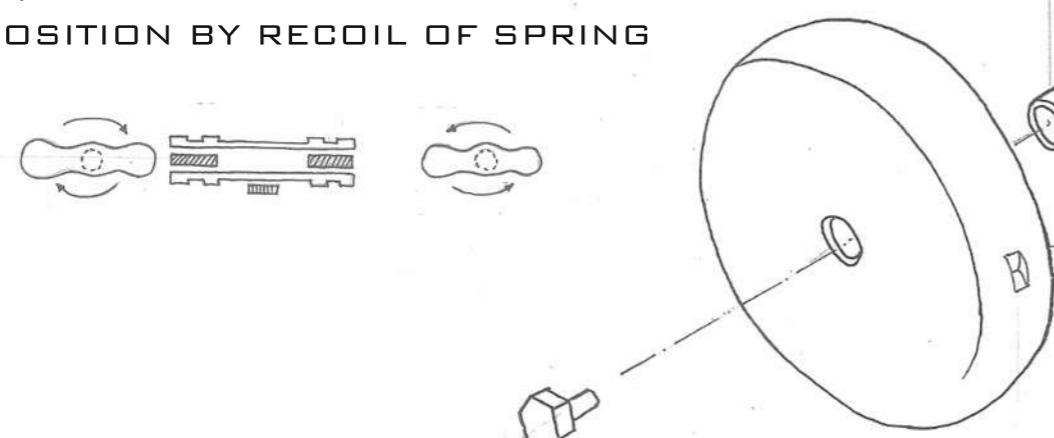
## EXPLODING A CYCLE BELL

HAND DRAWING

THE IDEA WAS TO  
UNDERSTAND THE  
VARIOUS COMPONENTS  
AND FUNCTIONS OF A  
MECHANICAL OBJECT



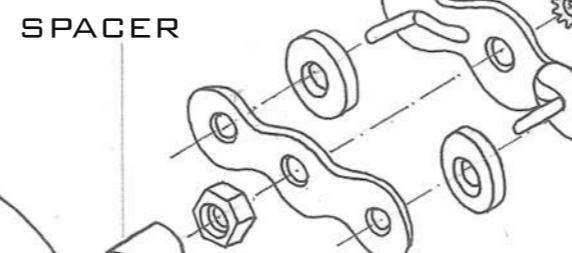
- (A) ON PRESSING THE ACTUATOR, THE GEAR ROTATES ANTICLOCKWISE, BEATERS AND WASHERS SPIN CLOCKWISE. THE WASHERS HIT THE BUTT OF THE BELL COVER TO EMIT A SOUND.  
 (B): ALL PARTS MOVE TO ORIGINAL POSITION BY RECOIL OF SPRING



HEX BOLT: HOLDS THE INITIAL PART OF THE BELL

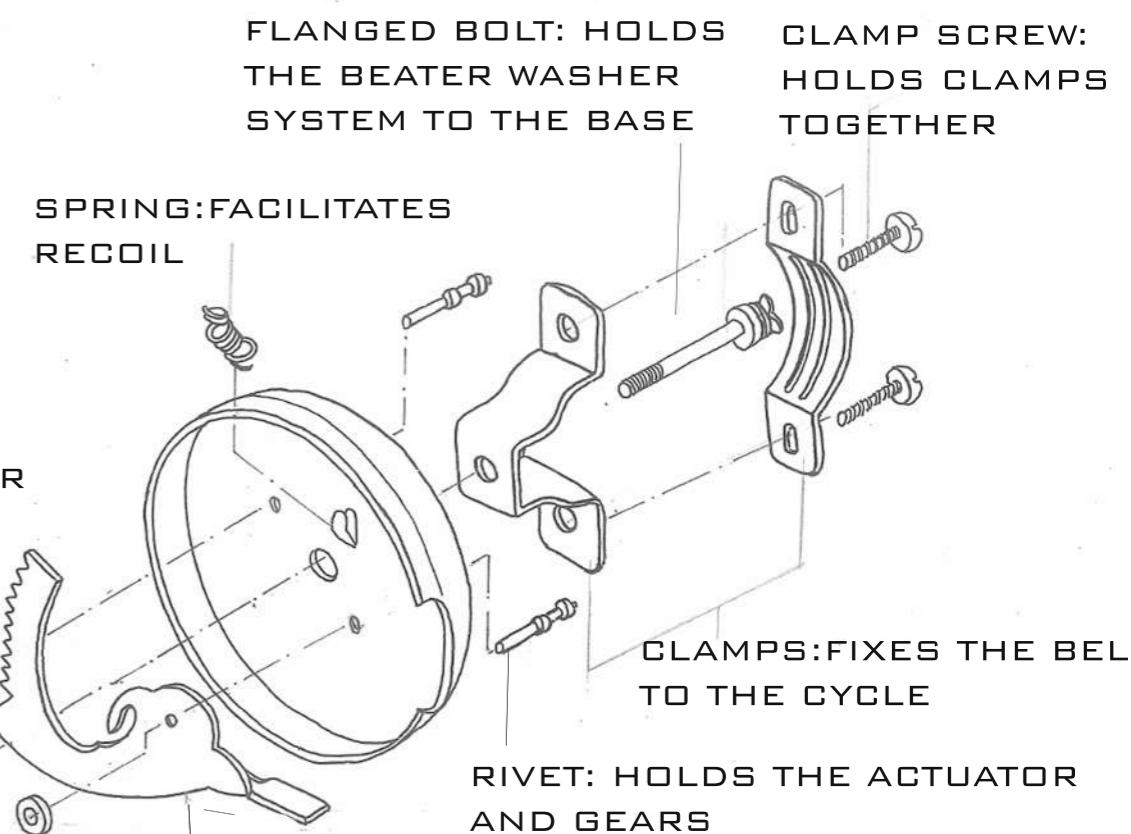
BELL COVER: RESONANCE OF SOUND VIBRATIONS TAKES PLACE HERE

BUTT: A SOUND IS EMITTED WHEN WASHERS STRIKE IT



PINION GEAR: SET THE GEAR ABOVE IT IN MOTION ON COMING IN CONTACT WITH THE ACTUATOR

ACTUATOR: ITS TEETH FIT INTO THE PINION GEAR. WHEN ITS ARM IS PRESSED IT SETS OTHER COMPONENTS IN MOTION PRODUCING SOUND



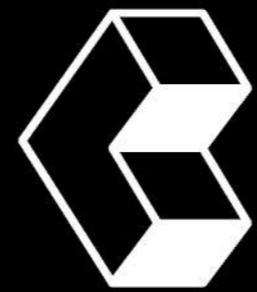
FLANGED BOLT: HOLDS THE BEATER WASHER SYSTEM TO THE BASE

CLAMP SCREW: HOLDS CLAMPS TOGETHER

SPRING: FACILITATES RECOIL

CLAMPS: FIXES THE BELL TO THE CYCLE

RIVET: HOLDS THE ACTUATOR AND GEARS



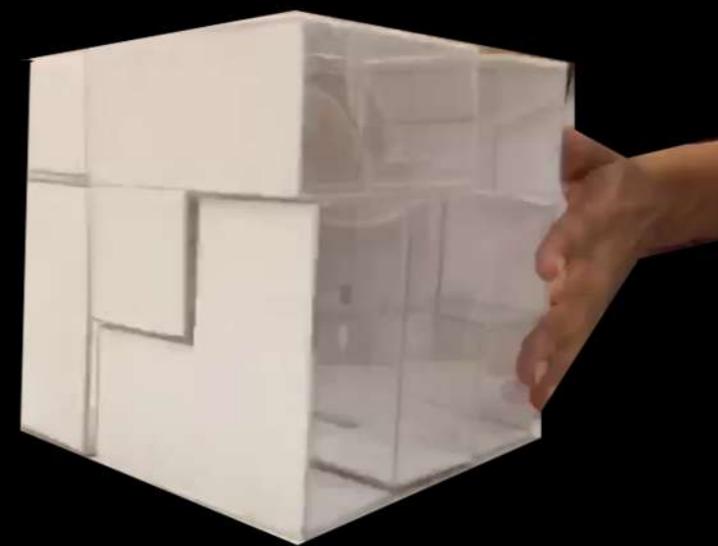
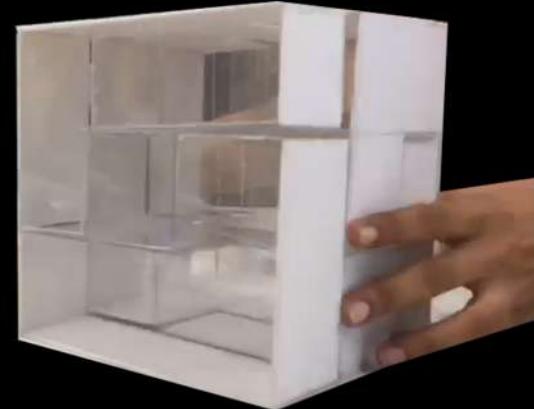
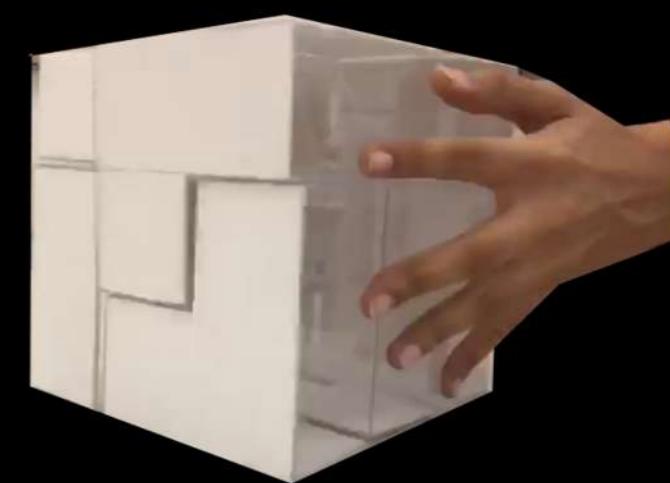
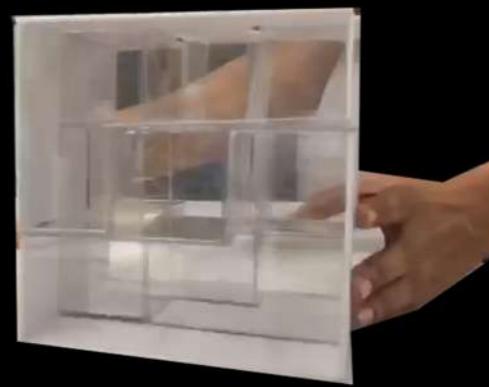
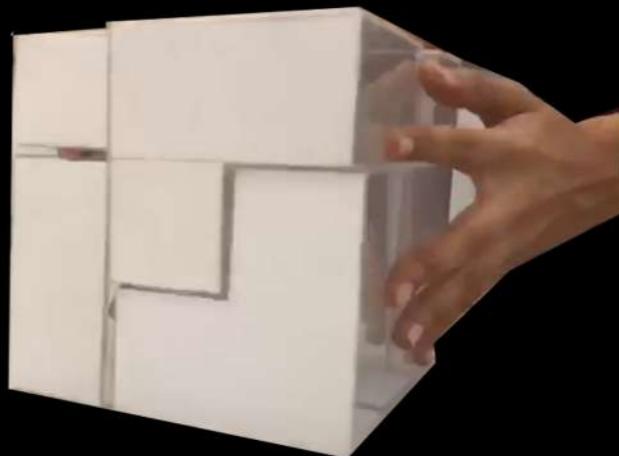
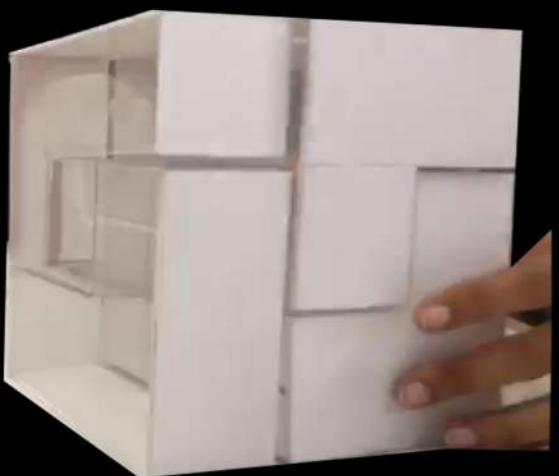
MODEL MAKING

## IMITATIONS & IDEAS

### MODEL MAKING

ACRYLIC-SUNBOARD

THIS IS A COLLECTION  
OF MODELS MADE  
THROUGHOUT THE YEAR.



CUBE PUZZLE MADE USING  
SUNBOARD AND ACRYLIC

# IMITATIONS & IDEAS

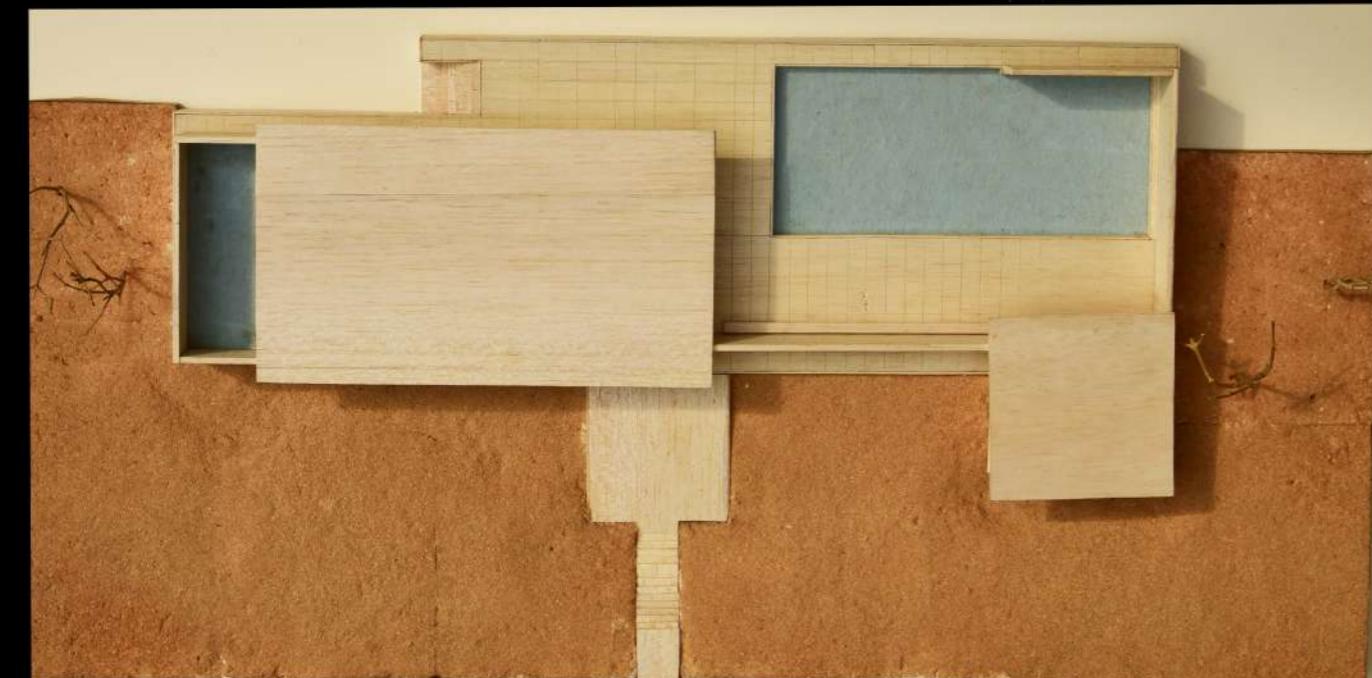
## MODEL MAKING

THIS IS A COLLECTION  
OF MODELS MADE  
THROUGHOUT THE YEAR.

BARCELONA PAVILION  
BALSA  
WOOD-SAWDUST-ACRYLIC  
SHEET.

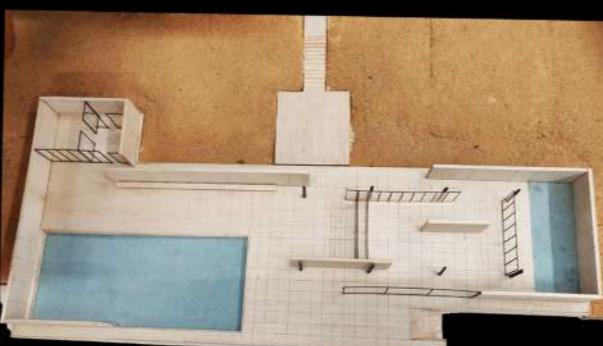


ELEVATION



PLAN

DETAILS



# IMITATIONS & IDEAS

## MODEL MAKING

THIS IS A COLLECTION  
OF MODELS MADE  
THROUGHOUT THE YEAR.

CUBE  
GHANA TEAKWOOD-MS SHEET-MS  
ROD AND PIPE  
WORKSHOP PRODUCT



## JOINERIES



# IMITATIONS & IDEAS

## MODEL MAKING

THIS IS A COLLECTION OF MODELS MADE THROUGHOUT THE YEAR.

CANTILEVER  
REED STICKS AND THREAD



L  
O  
A  
D  
T  
E  
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T  
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N  
G



### ERRORS



### CORRECTIONS

PRESSURE DISTRIBUTED FROM A POINT ON TOP TO THE BASE

### ERRORS



### CORRECTIONS

POSITION OF THE STRUCTURE ON THE BASE WAS CHANGED



A STRONG SINGLE CONTINUOUS UNIT WAS MADE AS THE EARLIER MODEL BROKE AT POINT OF ATTACHMENT OF TWO PARTS OF THE



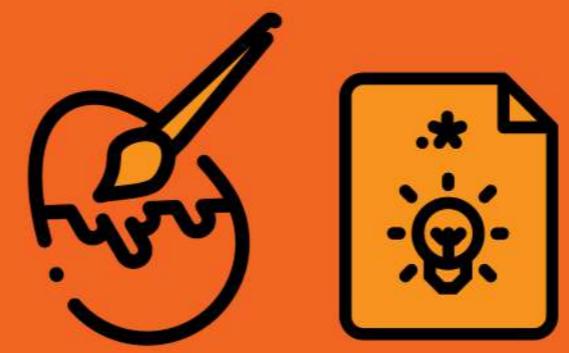
TENSION IN THE STRING WAS INCREASED



STRONG LASHING OF 25 LOOPS



USE OF CROSS BRACING THE COLUMN WAS SHIFTED AWAY FROM THE HORIZONTAL LAP JOINT



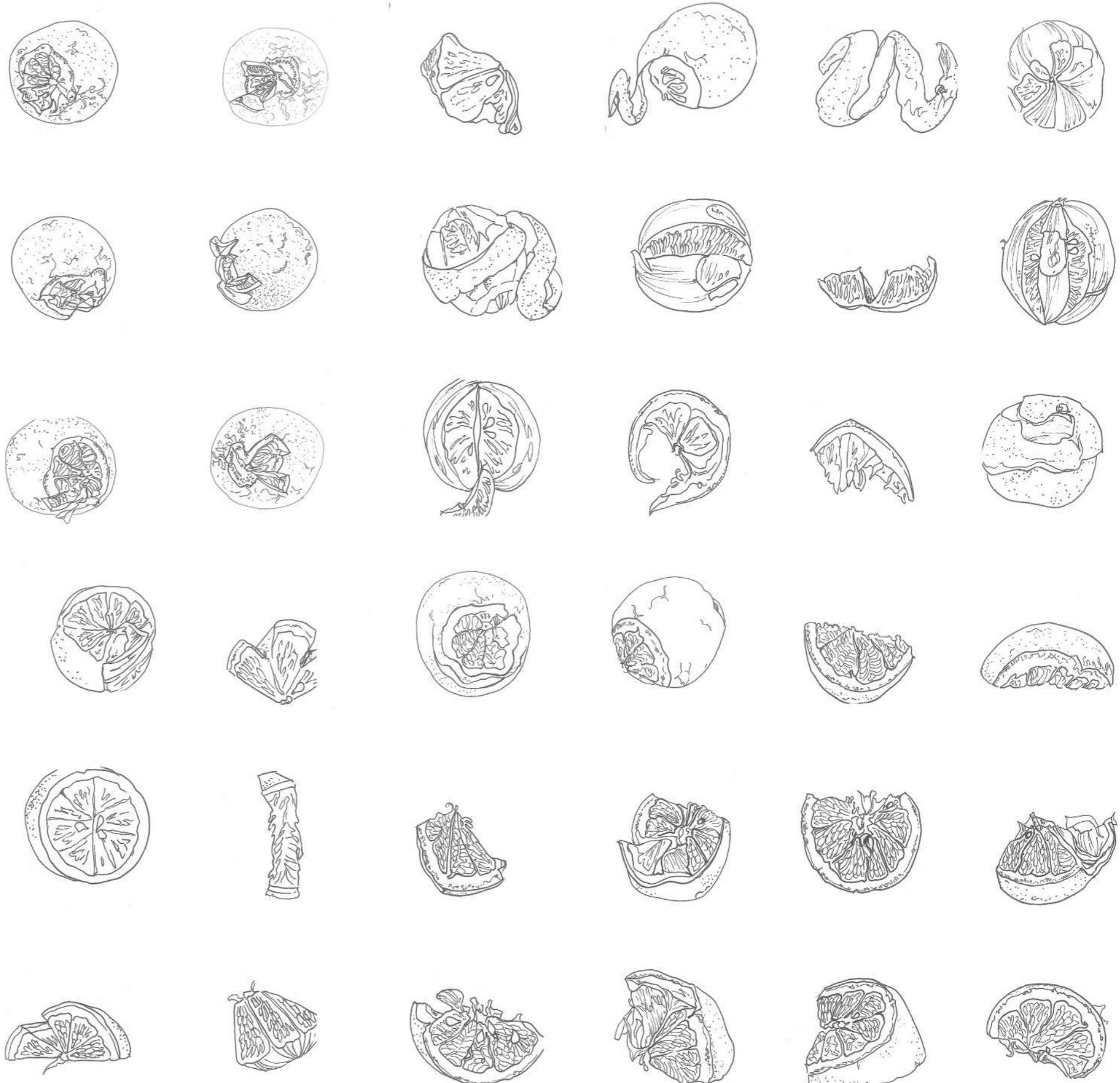
MISCELLANEOUS SKILL  
BASED EXERCISES

# DELVING INTO DEPTHS

## EXPLODING AN ORANGE

HAND DRAWING

THE IDEA WAS TO LOOK BEYOND THE OBVIOUS, TO LOOK AT AN OBJECT IN DIFFERENT PERSPECTIVES AND UNVEIL VARIOUS CHARACTERISTICS ASSOCIATED WITH IT.



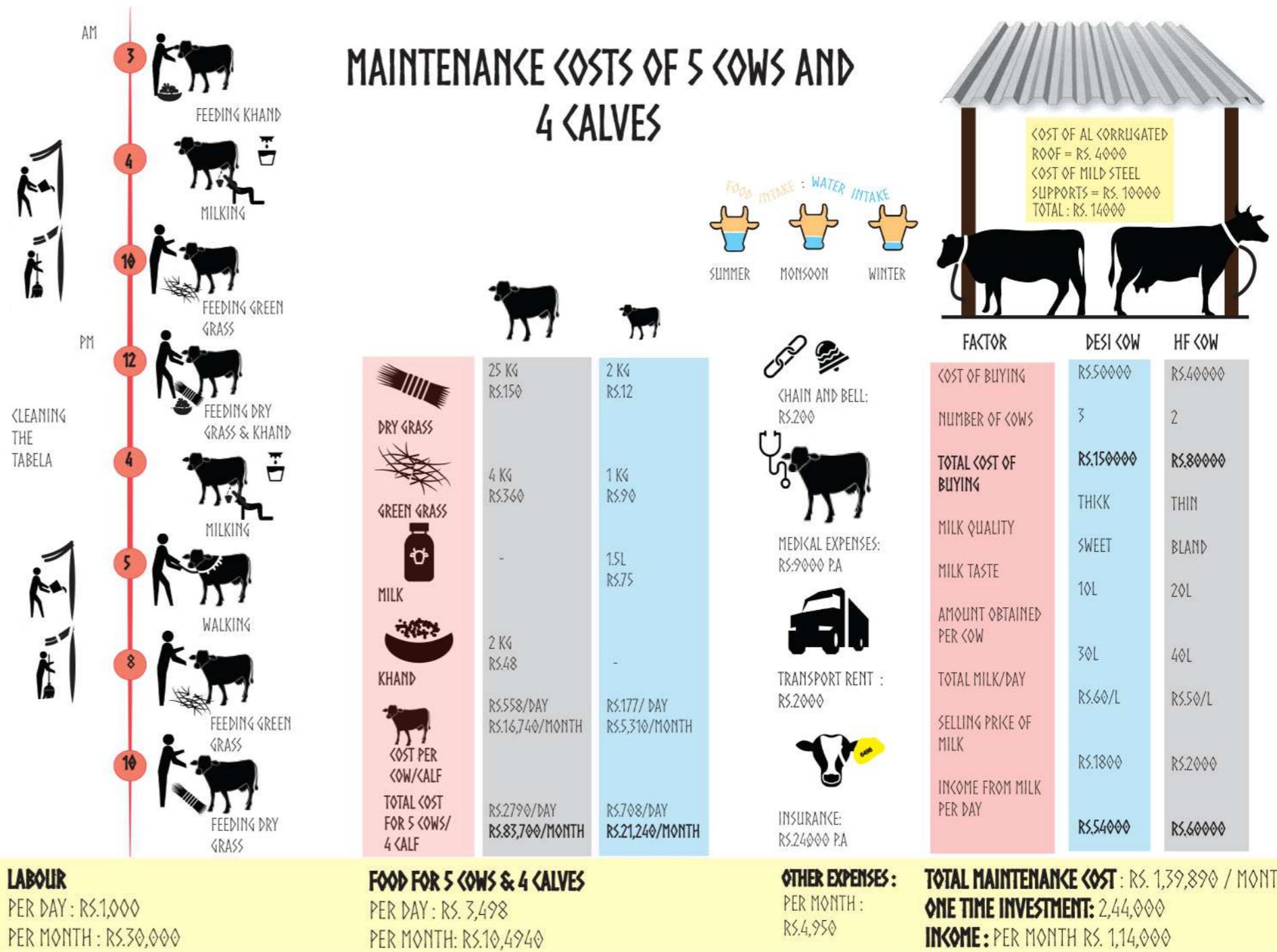
# MAINTENANCE MANIA

## GAUGING COSTS

ILLUSTRATOR - PHOTOSHOP - INDESIGN

THE IDEA WAS TO  
INTERVIEW THE  
RESPECTIVE  
AUTHORITIES AND  
DETERMINE THE  
VARIOUS COSTS AND  
TRANSACTIONS  
REQUIRED IN A  
PARTICULAR BUSINESS.

MAINTENANCE COSTS OF 5 COWS AND 4 CALVES					
HEAD	QUANTITY	UNIT	COST PER UNIT IN RS	TOTAL COST	
BUYING COST					
DESI COW	3		50000	150000	
HF COW	2		40000	80000	
HEAD	QUANTITY	UNIT	COST PER UNIT IN RS	TOTAL COST PER DAY IN RS.	TOTAL COST PER MONTH IN RS
LABOUR WORKER	2		500	1000	30000
FODDER FOR 1 COW		KG			
DRY GRASS	25	KG	6	150	4500
GREEN GRASS	4	KG	90	360	10800
KHAND	2	KG	24	48	1440
MONSOON MONTH PASTURE RENT	31	KG	120	3588	10740
FODDER FOR 5 COWS	155	KG	600	2790	83700
FODDER FOR 1 CALF		KG			
DRY GRASS	2	KG	6	12	360
GREEN GRASS	1	KG	90	90	2700
MILK	1.5	L	50	75	2250
FODDER FOR 4 CALF				177	5250
FODDER FOR 5 COWS 4 CALF				708	21240
TRANSPORT FOR FODDER				3498	104940
INSURANCE OF 50000					2000
MEDICAL FOR ALL					2000
HEAD	QUANTITY	UNIT	COST PER UNIT IN RS	TOTAL COST PER DAY IN RS.	TOTAL COST PER MONTH IN RS
DESI COW MILK SP	30	L	60	1800	54000
HF COW MILK SP	40	L	50	2000	60000
	70	L	110	3800	114000
HEAD	QUANTITY	UNIT	COST PER UNIT IN RS	TOTAL COST	
COST OF MILD STEEL	40	SQ.FT	250	10000	
COST OF AL SHEET	50	SQ.FT	80	4000	
COST OF BELL AND CHAIN					
TOTAL ONE TIME INVESTMENTS				244000	
TOTAL MAINTENANCE OF 5 COWS 4 CALVES				139890	

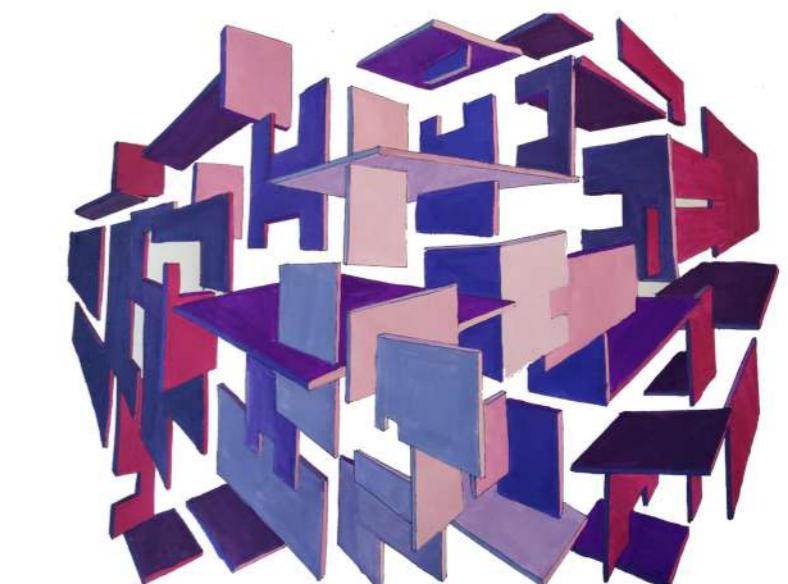
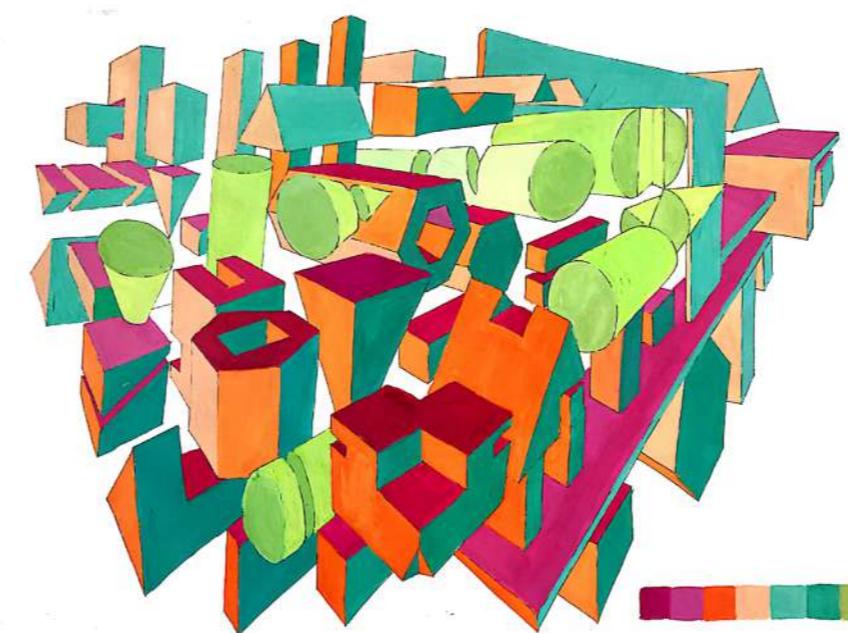
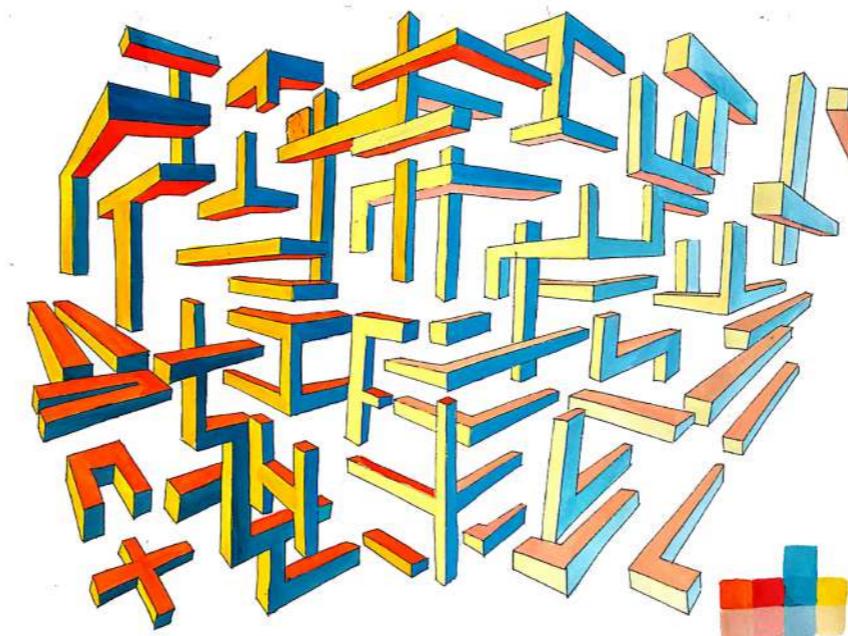
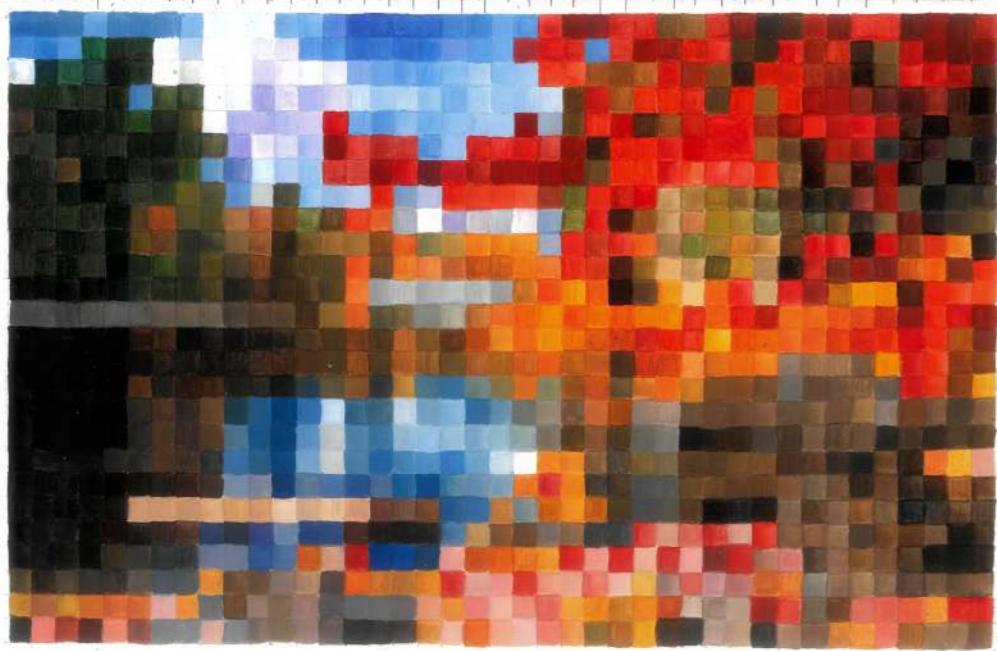


# HUES IN THE HIGHLIGHT

COLOUR THEORY- PIXELATION

POSTER COLOUR ON HAND DRAWING

THE IDEA WAS TO  
UNDERSTAND THE  
COLOUR WHEEL AND  
ACHIEVE VARIOUS TINTS  
AND SHADES OF EACH  
HUE.



# PASSAGE TO A PICTURE

IMAGINATIVE DRAWING

HAND DRAWING-COLOUR PENCILS

THE IDEA WAS TO ILLUSTRATE THE SETTING OF THE FICTIONAL NARRATIVE WRITTEN BY ONESELF ON PAPER. THIS LED TO THE DEVELOPMENT OF A DYSTOPIAN WORLD WITH SUPERNATURAL QUALITIES.



## THE POLÉMESTIS- AN EXCERPT

INSIDE THE LABYRINTH OF ATHENA, CRATUS SLID DOWN THROUGH THE DEVIL'S COVE TRANSPORTING HIM INTO A NEW LAND. HE SLID DOWN THE SLOPE, REACHING A LAND FILLED WITH RED FLAKY SOIL. HE LOOKED UP TO SEE HUGE LIZARDS, WITH THEIR TAILS ABOVE GROWING OUT FROM THIS SOIL. AHEAD WERE, LAVENDER ICE MOUNTAINS HAVING SHARPLY CUT SURFACES THAT STOOD UPSIDE DOWN. WORMS GREW FROM THEIR BOTTOMS. AROUND HIM, HUGE BLACK BARKS ROSE UP IN THE SKY, HAVING TARANTULAS WITH FOUR TENTACLES GROWING OUT OF THEM. THE SKY WAS IN HUES OF DARK GREY. AT THE END OF THIS STRETCH OF SOIL WAS A WATERBODY FILLED WITH CRYSTAL CLEAR WATER INTERSPERSED WITH BLACK SNAKES FLOATING IN IT. IT WAS FLOWING UPWARDS. THE FORCE OF GRAVITY PULLED EVERYTHING UPWARDS HERE. STEPPING ON CIRCULAR GOLDEN PLATES SET AT DIFFERENT ANGLES HE HOPPED ALONG THE WATERBODY. THE WATERBODY TURNED AND TWISTED. HE REACHED THE END, STEPPING ONTO A TRANSPARENT MEMBRANE OF NITROGENOUS AIR. THE DARK GREY SKY NOW LAY BELOW HIM. HE COULD SEE THE LAND ON THE OTHER SIDE OF THE VALLEY DOWN, DIAGONALLY SOUTH. HE CAREFULLY WALKED ON THIS TRANSPARENT LAYER, LOOKING AT THE SKY BELOW. THE LAND HERE WAS SOFT LIKE A MARSHMALLOW, LEAVING NO TRACE OF FOOTSTEPS AS HE WALKED ON IT. THERE WERE JELLYFISHES, PINK AND PURPLE WITH THEIR TENTACLES HANGING DOWN TO FORM AN ILLUMINATED CANOPY ABOVE HIM. THESE JELLYFISH PROVIDED POWER TO ALL BUILT FORMS OVER THERE.

A METAL STAIRWAY LED UP TO A GLOWING PINK SPHERE LEADING TO A STRUCTURE HAVING CUBES PLACED AT DIFFERENT ANGLES ON TOP OF EACH OTHER. THESE CUBES WERE MADE OUT OF BROKEN PIECES OF METAL HELD TOGETHER BY A VISCOUS LIQUID GLASS PROVIDED BY THE JELLYFISH. SEVERAL SUCH STRUCTURES WERE PRESENT HERE.

# CREATING COLLAGES

DECIPHERING STYLE

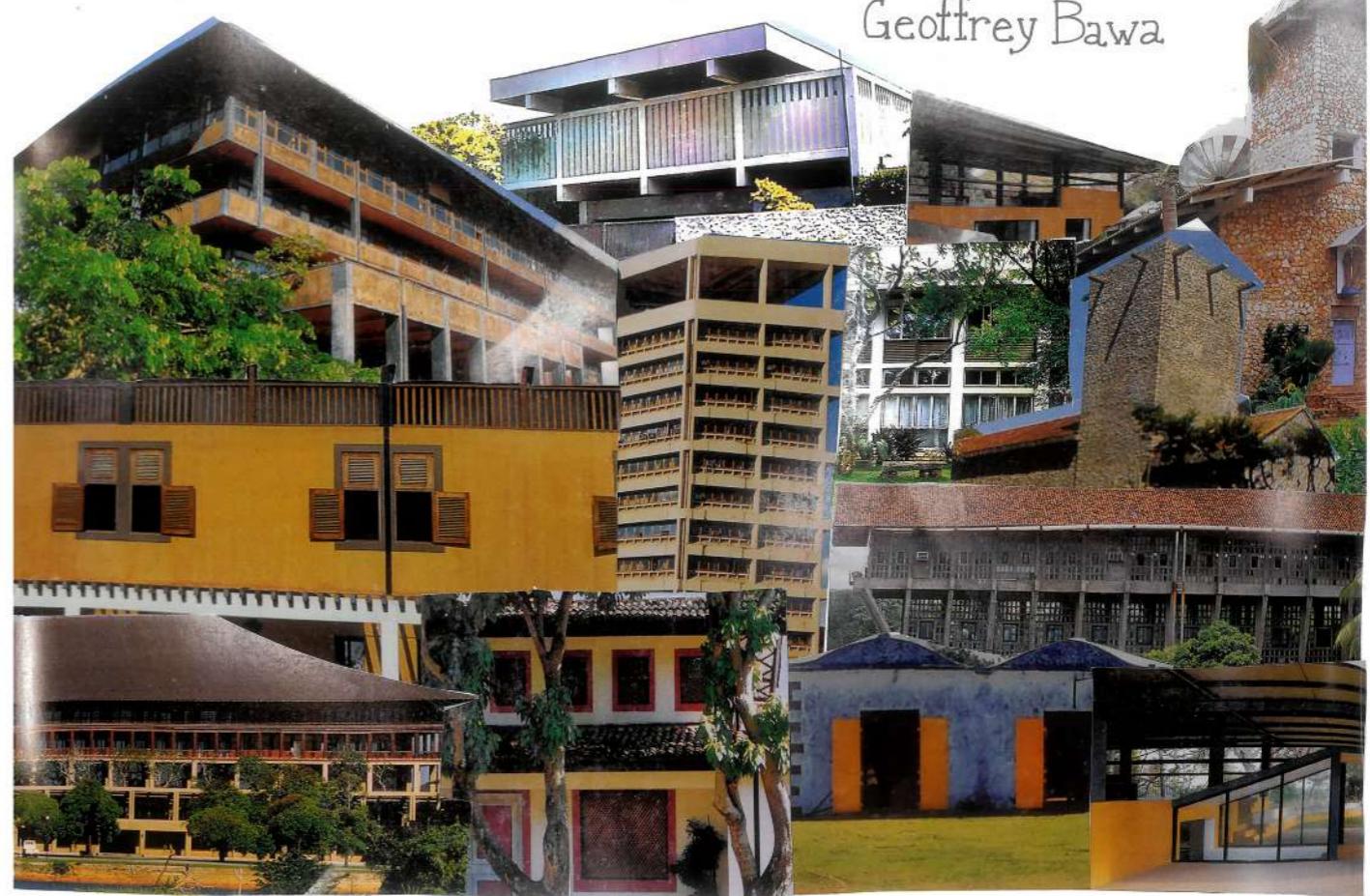
MAGAZINE CUTOUTS

THE FIRST COLLAGE IS AN UNDERSTANDING OF THE ARCHITECTS WORK IN ORDER TO KNOW HIS COLOUR PALETTE.

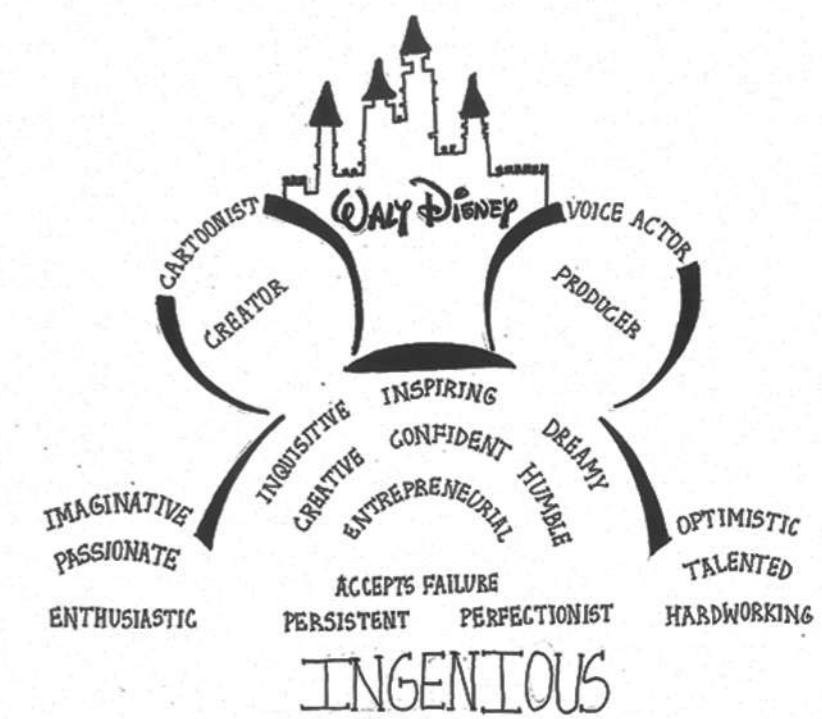
THE SECOND COLLAGE HERE IS AN ATTEMPT TO DESIGN SPACES FOR THE PERSONALITY BY DECIPHERING HIS STYLE.



WORKS OF  
GEOFFREY BAWA



Geoffrey Bawa



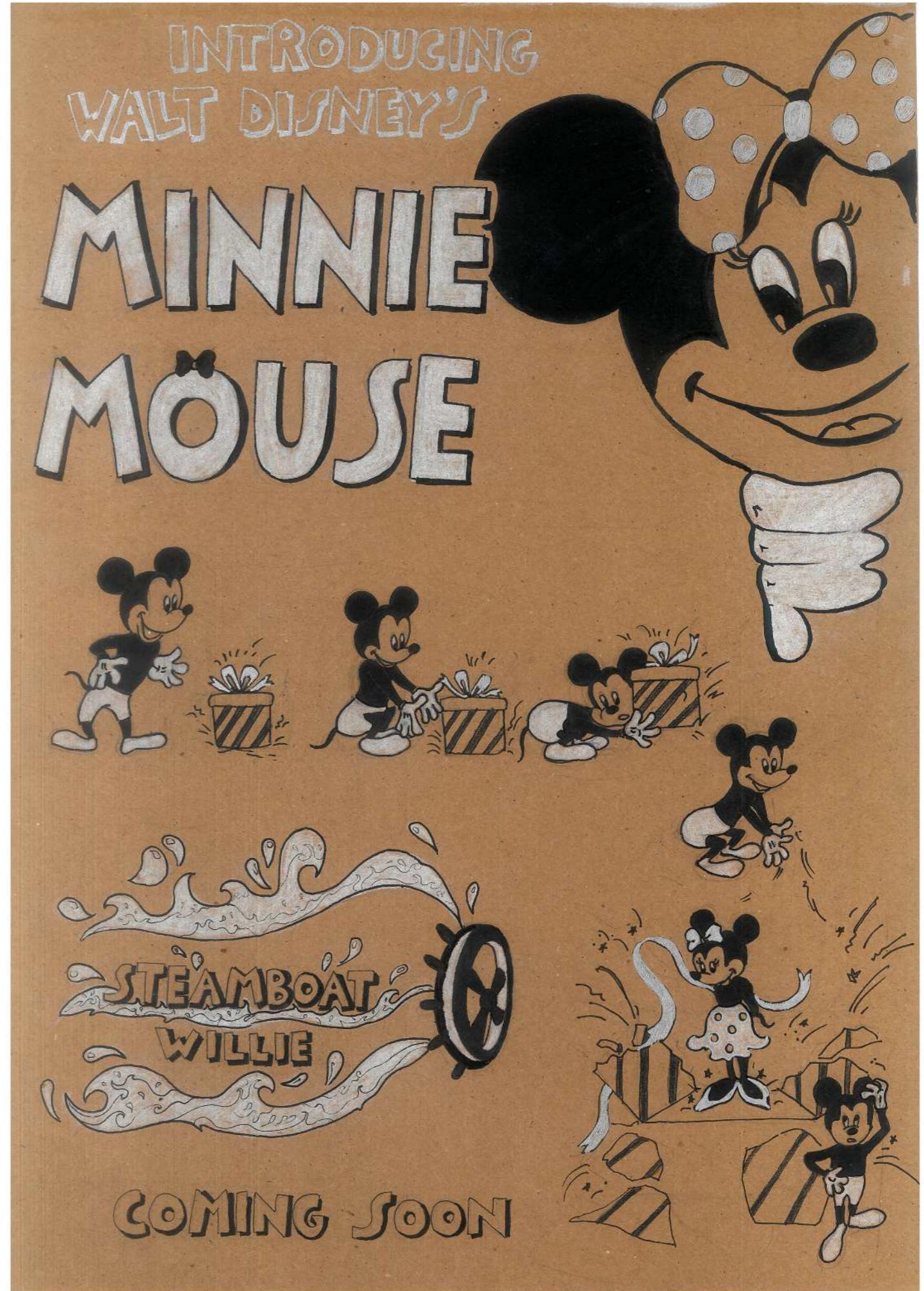
A SET OF SPACES DESIGNED  
FOR WALT DISNEY

# MONOCHROME MOVIES

## POSTER MAKING

HAND DRAWING - CHARCOAL PENCILS

THE IDEA WAS TO CREATE A POSTER FOR WALT DISNEY. A MOVIE RELEASE POSTER WAS THUS DESIGNED TO EMPHASIZE ON THE DIFFERENT FRAMES OF ANIMATION USED IN THOSE TIMES FOR B/W FILMS.

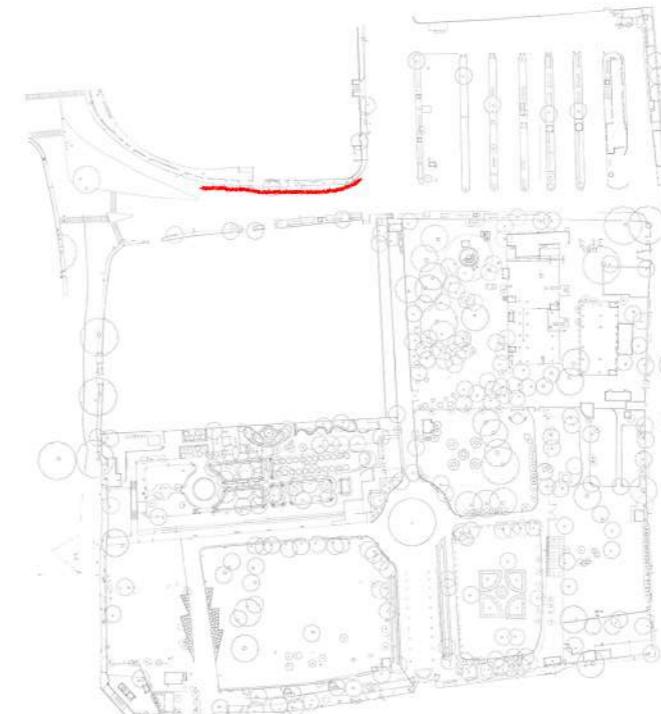


# MAPPING MANIA

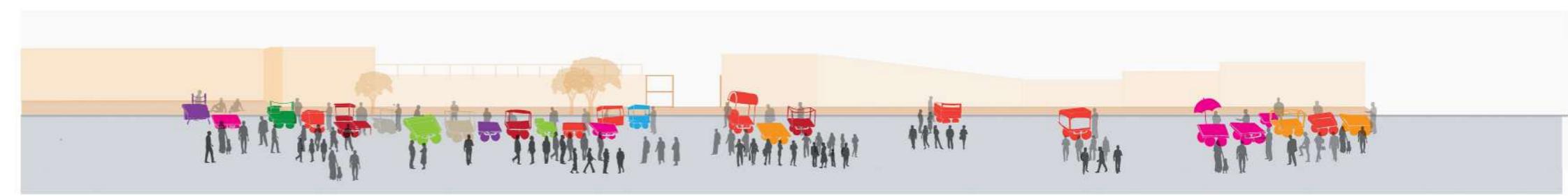
## MAPPING ELEVATIONS

PHOTOSHOP

THE IDEA WAS TO MAP THE STREETS AROUND SARDAR BAUG AND OBSERVE AND COLLECT DATA. THE ELEVATIONS REPRESENT DIFFERENT VENDORS AND THE FREQUENCY OF HUMANS AT DIFFERENT STALLS IN VARIOUS TIME SLOTS.



A MAP OF SARDAR BAUG AND THE AREA AROUND IT. THE HIGHLIGHTED PART REPRESENTS THE AREA MAPPED FOR DATA ON VENDORS AND PEOPLE.



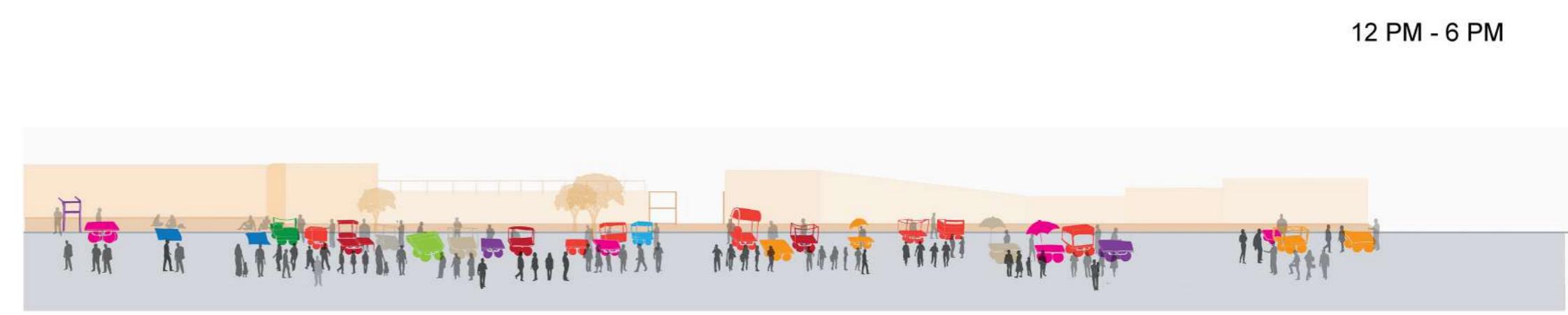
7 AM - 10 AM

### LEGEND

▢ traffic light	▢ Permanent stall
▢ hording	▢ Semi permanent stall
▢ signage	▢ Tea
▢ CCTV camera	▢ Paan
▢ statue	▢ Food
▢ electric box	▢ Sunglasses
▢ pipeline	▢ Shoes
▢ manhole	▢ Clothes
▢ WiFi tower	▢ Water/Beverages
▢ sprinklers	▢ Peanuts
▢ parking stand	▢ Household
▢ Dargah	▢ Fruits
▢ public toilet	▢ Electronics
▢ police	▢ Accessories
▢ Ticket booth	
▢ Temple	



12 PM - 6 PM



6 PM - 8 PM

