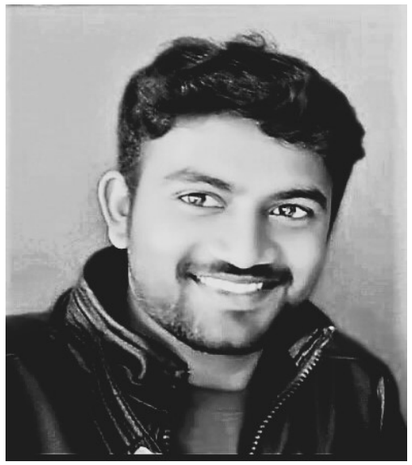
CHANDAN JAGANNATH

DESIGN PORTFOLIO 2024

ABOUT ME



CHANDAN JAGANNATH

As a design professional with a foundation in civil engineering and an MBA in construction management, I have expanded my expertise into interior architecture and design, with a career that began in 2018. My portfolio reflects a diverse range of projects, from residential and institutional designs to bespoke furniture creations. Proficient in Building Information Modelling (BIM), I integrate technical precision with aesthetic creativity to deliver thoughtful, functional spaces. My academic background, coupled with hands-on experience, positions me to approach every project with a comprehensive and innovative perspective.

EDUCATION

1 **MA in Interior Architecture and Design** | Heriot Watt University - Edinburgh | 2023 – 2024
Modules: Interior Design, Technology and communication, Sustainability Design and Management, Design Thinking and Innovation

Dissertation: Design proposal for the renovation of flex lab at Heriot watt university for the enhanced acoustics and flexibility

2 **MBA in Construction Management** | Singhania University Bangalore | 2018 - 2020
Modules: Managerial Economics and Accounting, Building Information Modelling, Primavera, Construction Management, Lean and six sigma, Tendering Bidding and Contracting
Thesis: Cash flow analysis of infrastructure projects considering risks and uncertainties

3 **BE Civil Engineering** | Cambridge Institute of Technology Bangalore | 2014 - 2018
Modules: Study of Drawings and layouts, Auto CAD, Construction Technology, Structural Design, Fluid Mechanics, Geology, Design communication and Drafting, Civil Construction and engineering
Final Project: Analysis and design of multi-storeyed Building considering earthquake loads using ETABS

EXPERIENCE

1 **Civil Engineer** | Reunite Interiors and Constructions | January 2021- December 2022 | Bangalore, India
Projects: 16 Residential Designing, 3 Institutional Designing, 2 Design and Build
Providing Periodic site Visits, Preparation of Floor plans, Elevation design, Walk through, Structural Details, Electrical Details and Plumbing Details. Interpretation of plans and specifications, Material suggestion and estimation, Processing and certification of contractor's payment estimate

BIM Based 3D modelling and Furniture modelling for Germany based client

2 **Techno Commercialist** | Swifterz Creative Services | December 2019 - January 2021 | Bangalore, India
Projects: Attending Client Meetings and noting down the Minutes of meeting, Preparing BIM Execution Plan and Employers Information Requirement, Documentation of the Good for Construction Drawings and the project Information Drafts. Co-ordinating with different disciplines, solving the modelling errors and clearing the design challenges. Rectifying the clashes between different disciplines, scheduling and monitoring of project activities using Primavera. Co coordinating with client and the project team for the design changes.
Training: Resource allocation for different training modules, Scheduling of batch, Internal Team Training on E Tabs, Staad RCDC, Lumion, and advancement

in BIM technology, Faculty Development Program at Amrutha Institute of technology and Malnad College of engineering on the concepts of BIM.

3 **BIM Engineer** | Venkataramanan Associates | February 2019 – April 2019 (Internship) | Bangalore, India
BIM Process, Revit Family Creation, Navisworks and Documentation.
I worked on two major projects in BIM
1. Retail Outlet : 9 lakh SqFt

2. Commercial Complex : 6 Lakh SqFt

SKILLS AND SOFTWARES

BIM AND COORDINATION
DESIGN AND MANAGEMENT
PLANNING AND CONTROL

AUTODESK BIM 360 · AUTODESK AUTOCAD · LUMION · Adobe Photoshop · ETABS
AUTODESK REVIT · AUTODESK NAVISWORKS · AUTODESK 3DS MAX · SketchUp · ORACLE PRIMAVERA

CONTENTS:

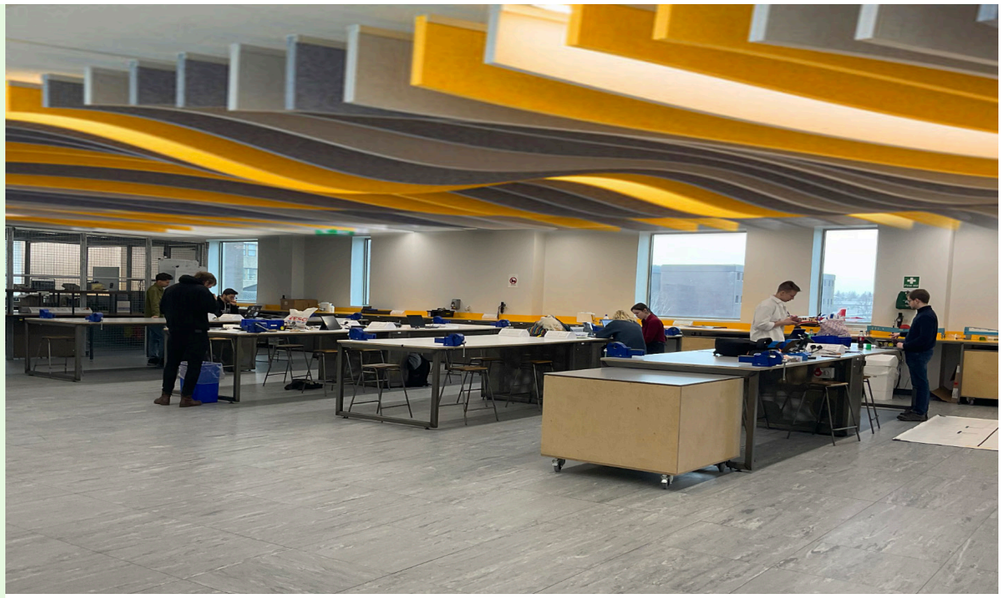
FLEX LAB 1 - REDESIGN FOR BETTER ACOUSTICS

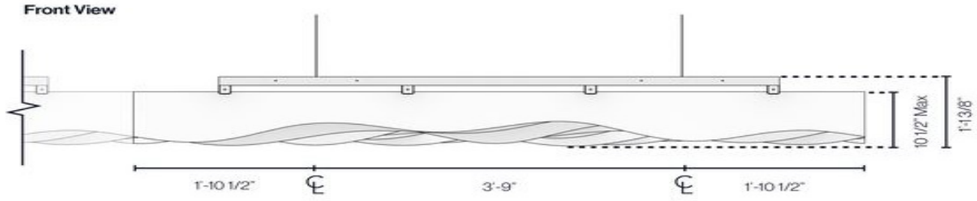
SOFTWARES USED

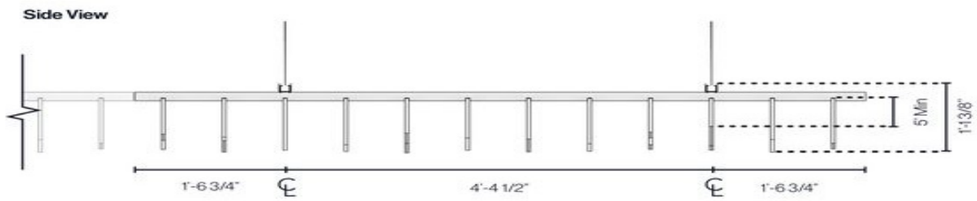
AUTODESK AUTOCAD
AUTODESK REVIT
LUMION
Adobe Photoshop

Aim:

This project aims to enhance the acoustic environment of the Flex Lab by redesigning the ceiling with coconut fiber-infused panels. The goal is to reduce reverberation and improve sound absorption, creating a more comfortable and functional space for collaborative activities



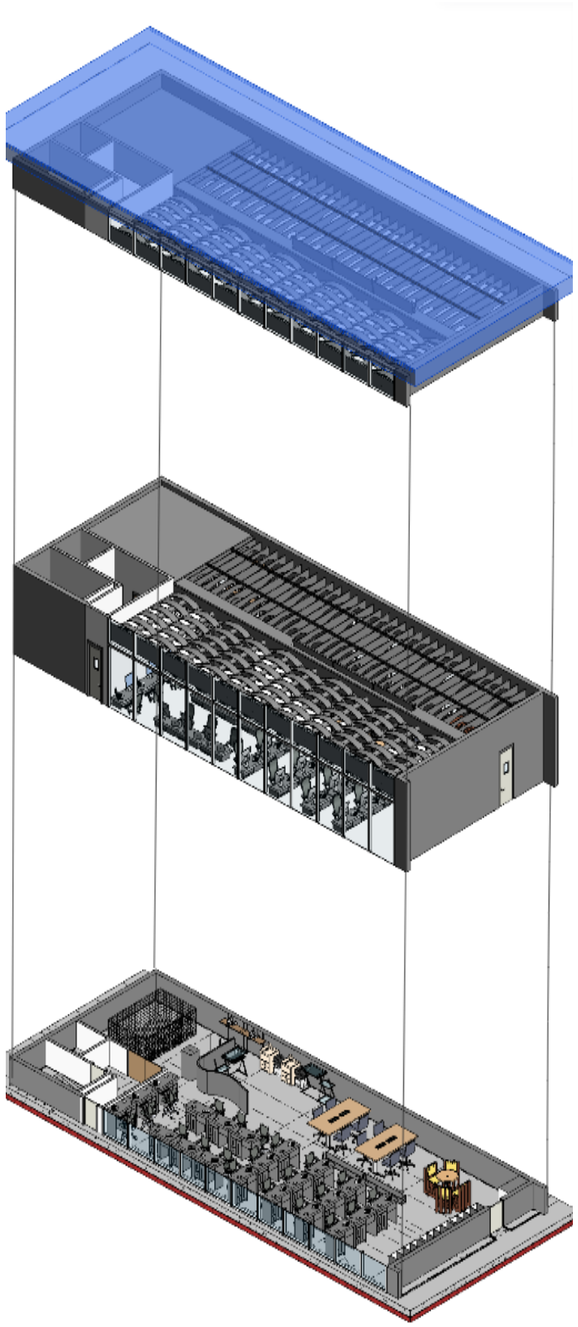


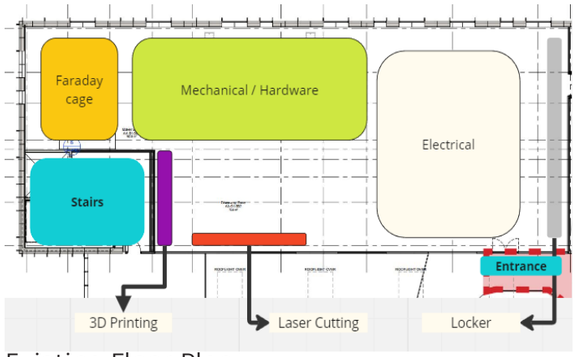


Overall, the design of a multipurpose acoustical ceiling made from coconut fibers for a 3D printing lab necessitates a comprehensive approach that balances acoustic performance, sustainability, functionality, adaptability, and safety considerations to create a solution that enhances the working environment while minimizing environmental impact.

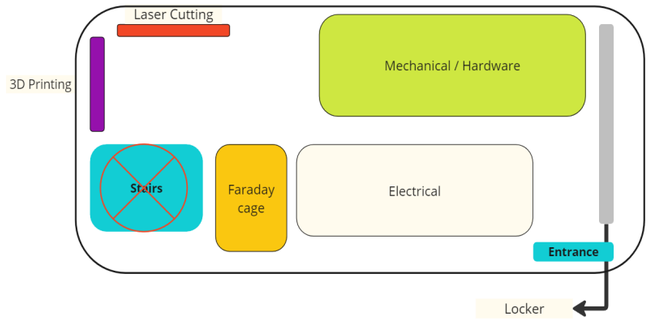
FLEX LAB 1 - REDESIGN FOR BETTER ACOUSTICS

Space Planning:

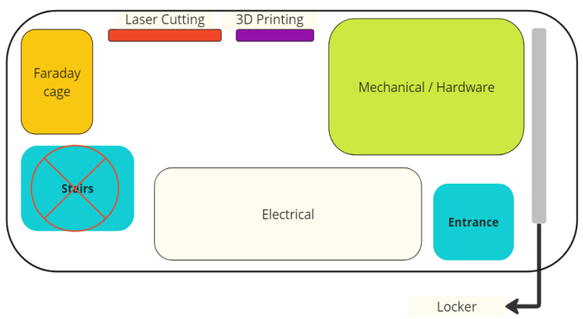




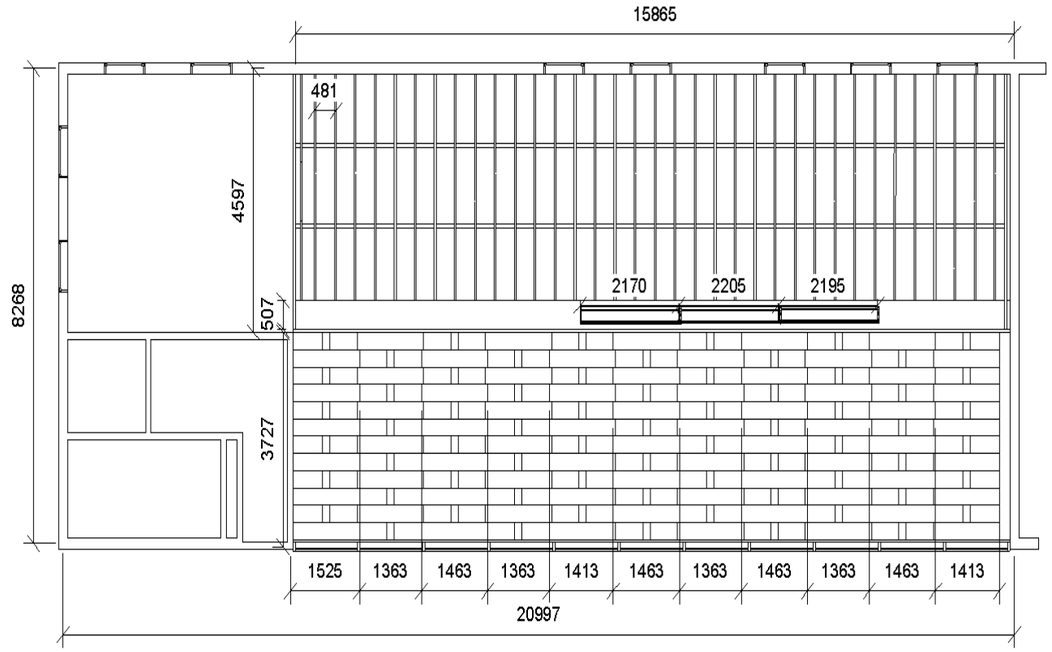
Existing Floor Plan



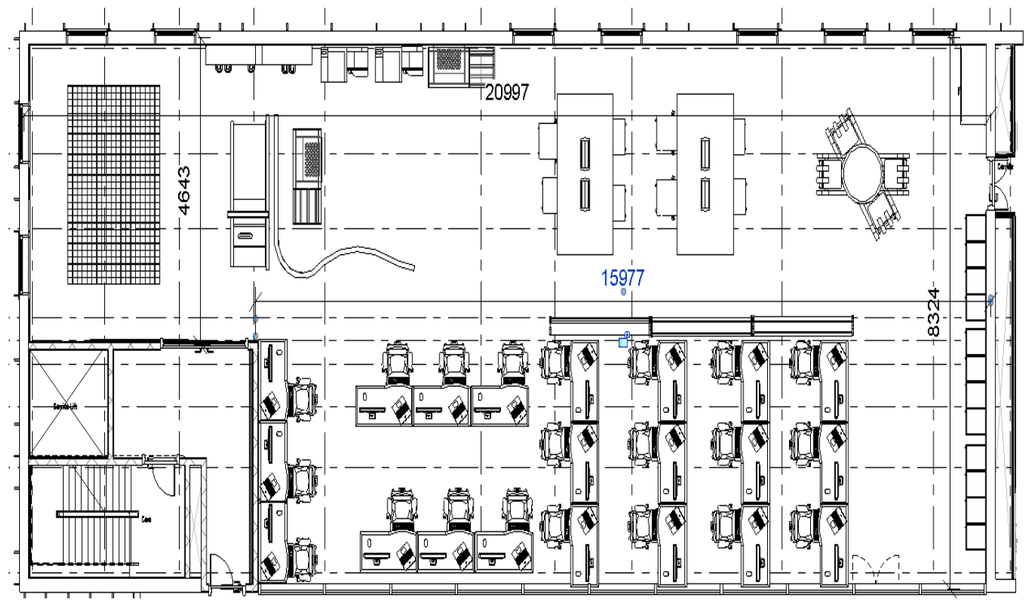
Proposal - 1



Final Proposal



Ceiling Plan



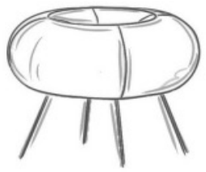
Floor Plan

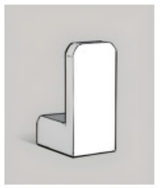
Careful consideration given to furniture layout and acoustic zoning. The floor plans will incorporate strategic placement of acoustic panels, furniture, and partitions to optimize sound absorption and minimize reverberation. Flexible seating arrangements will allow for versatile use of the space, accommodating different group sizes and activities. Additionally, designated quiet zones and collaborative areas will be integrated to cater to various work styles. The floor plans aim to create a balanced acoustic environment that enhances communication, productivity, and user experience within the redesigned Flex Lab.

INSTALLATION DESIGN AT WAVERLY STATION - EDINBURGH

Take It Eazyyyy... *A space which catches the eye. Encourages travelers passing through to wander, relax and reconnect with themselves.*

SOFTWARES USED
AUTODESK AUTOCAD
AUTODESK REVIT
LUMION
Adobe Photoshop



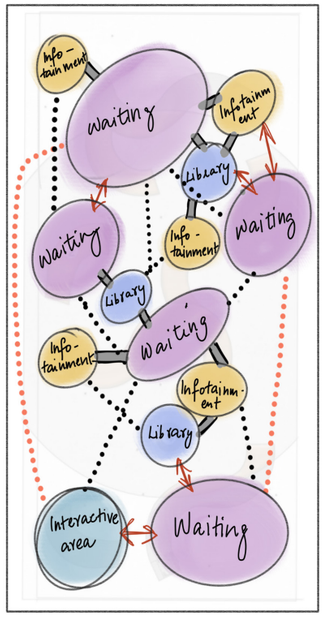


cool color palette is selected for calming atmosphere that counteracts feelings of anxiety.

Neutral color is chosen for the seating so it does not get affected by the other color.

Neutral color is chosen for the displays so it merges with the seating.

Zoning Diagram



Legend
- Immediate adjacency
- Close proximity
- Nearby
- Distant

Exhibitional Area
-The space is combination of history and waiting serves the dual purpose of educating and engaging visitors while enhancing their experience during wait times.
-It caters to the curiosity of tourists eager to learn about the place's history and provides a convenient and enriching waiting area for locals.

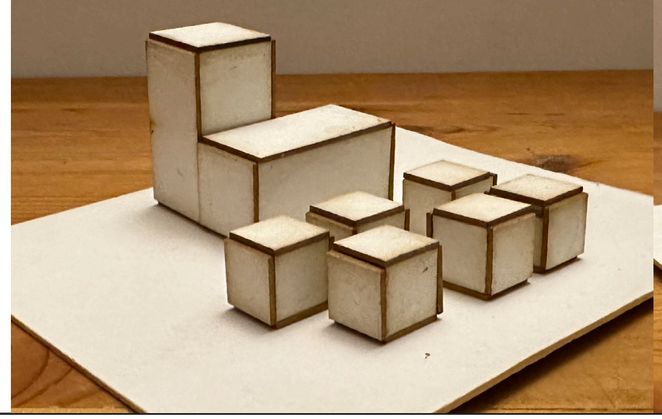
Interactive Space
-The space acts as an interactive area with a panel and the user themselves getting an emotional connection to the city by sharing their memories with it.

Photo Display Area
This depicts the history of the station and the events and the advertisements in and around the city readily available for the users

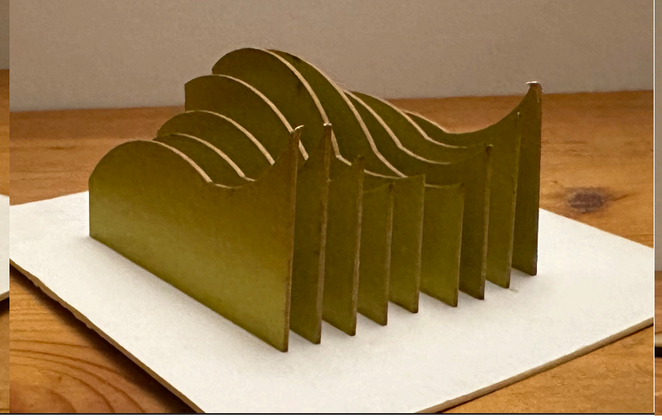
Seating
It consists of resting area with the organic shaped seating and also gives chance to get

Jellyfish spits bubbles from its mouth to move, taking it easy even though getting washed away by the waves and glowing beautifully in the dark. This serves as a gentle reminder that sometimes in our fast-paced lives, we need moments of calm and tranquility to relax and engage with the installation.

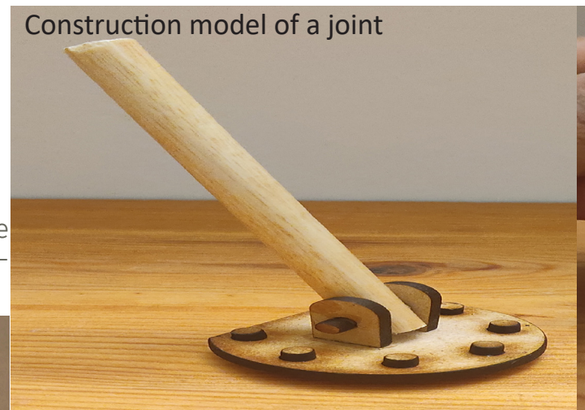
Inspired by Balance: The volume of small suares is equal to the volume of two big suares

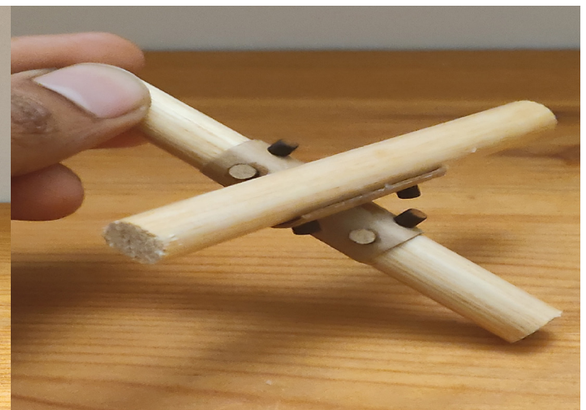


Inspired by wave

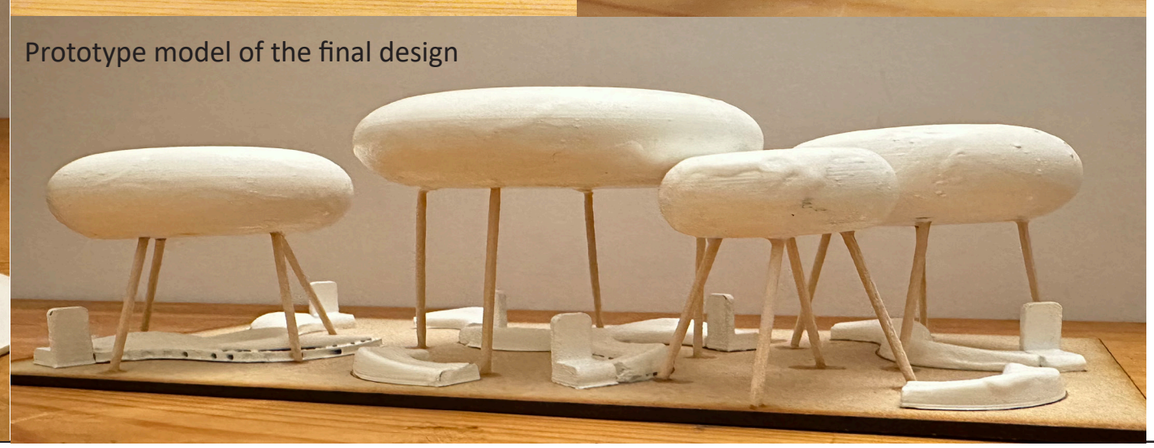


Construction model of a joint

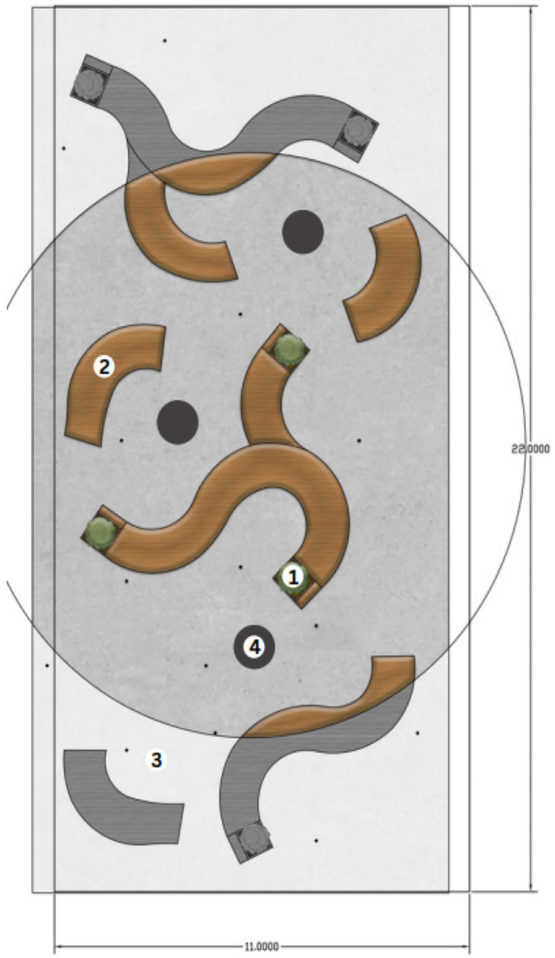




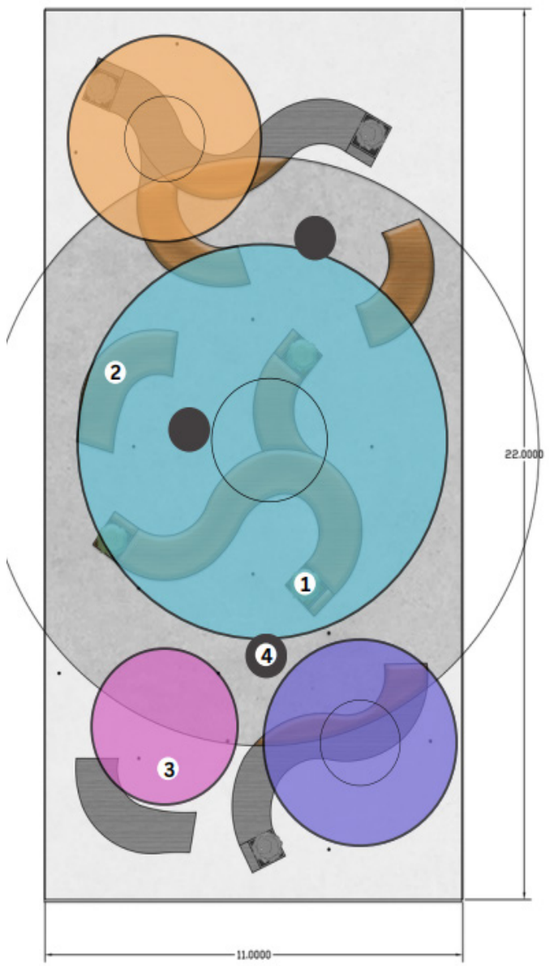
Prototype model of the final design



INSTALLATION DESIGN AT WAVERLY STATION - EDINBURGH



Floor Plan



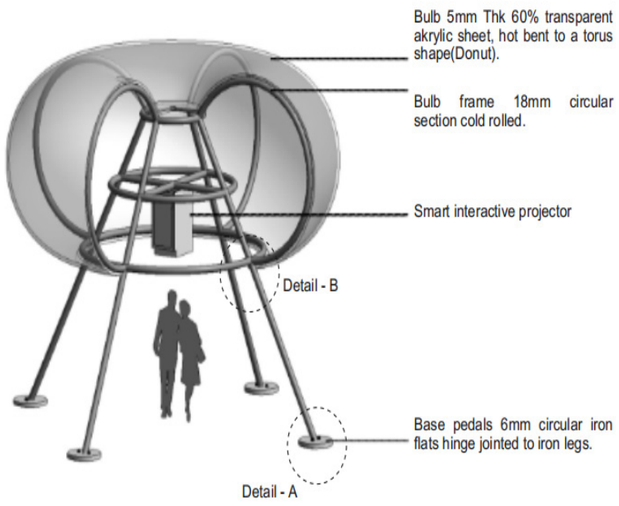
Roof Plan

The "Take It Easy" design concept is all about keeping things simple and relaxing. Imagine walking into a calm space with soothing colors, comfy seating, and easy-to-understand displays. The design encourages visitors to go at their own pace, enjoying a stress-free environment. It's like a break from the busyness of life. Interactive features, make it a comfortable and mindful experience. The goal is for people to take a deep breath, slow down, and appreciate the beauty of simplicity in a stress-free setting.

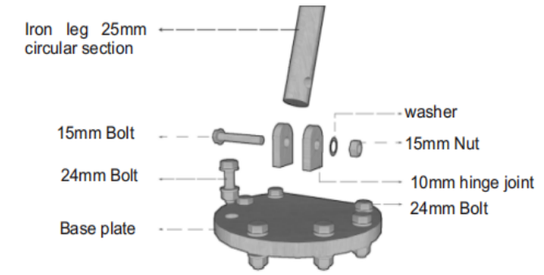
1. Conceptualization
The sculpture was designed to represent a vibrant and dynamic group of jellyfish.
The concept aimed to engage viewers and create a sense of wonder and whimsy.
2. Form and Structure
features a series of abstract, jelly fish-like structures.
Each jelly fish is constructed from colorful, translucent materials.

3.Integration with Environment
The sculpture was designed to complement the surrounding environment.
Consideration was given to how the changing daylight and nighttime illumination would interact with the artwork.

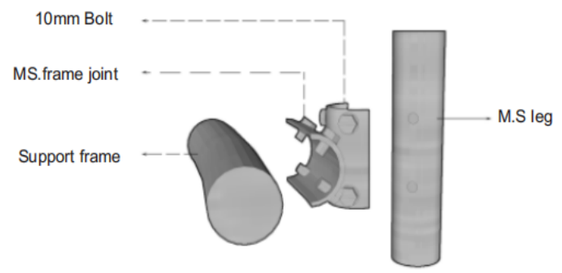
Construction Details



Detail - 1_1

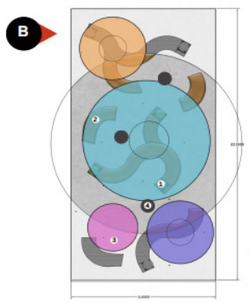


Detail - A

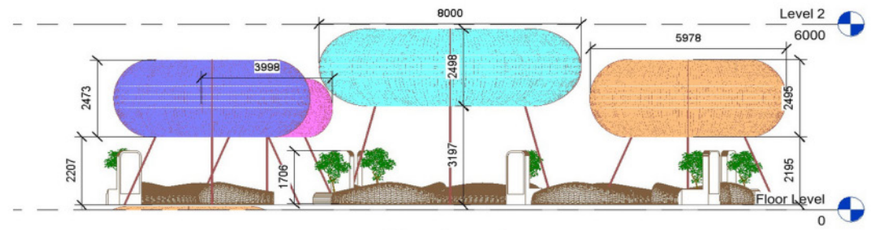


Detail - B

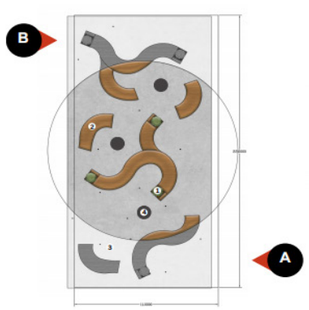
Elevations



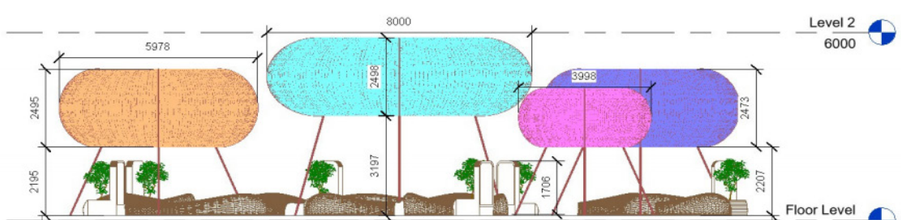
Roof Plan
(not to scale)



Elevation - A

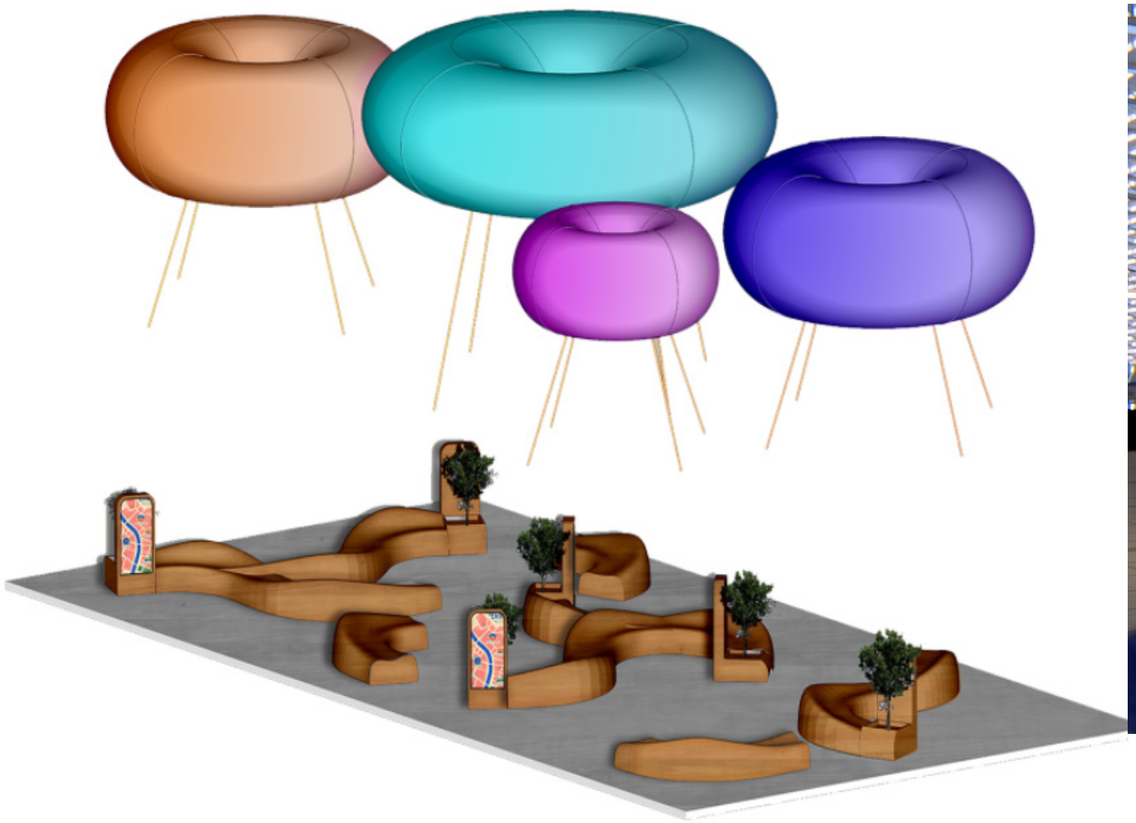


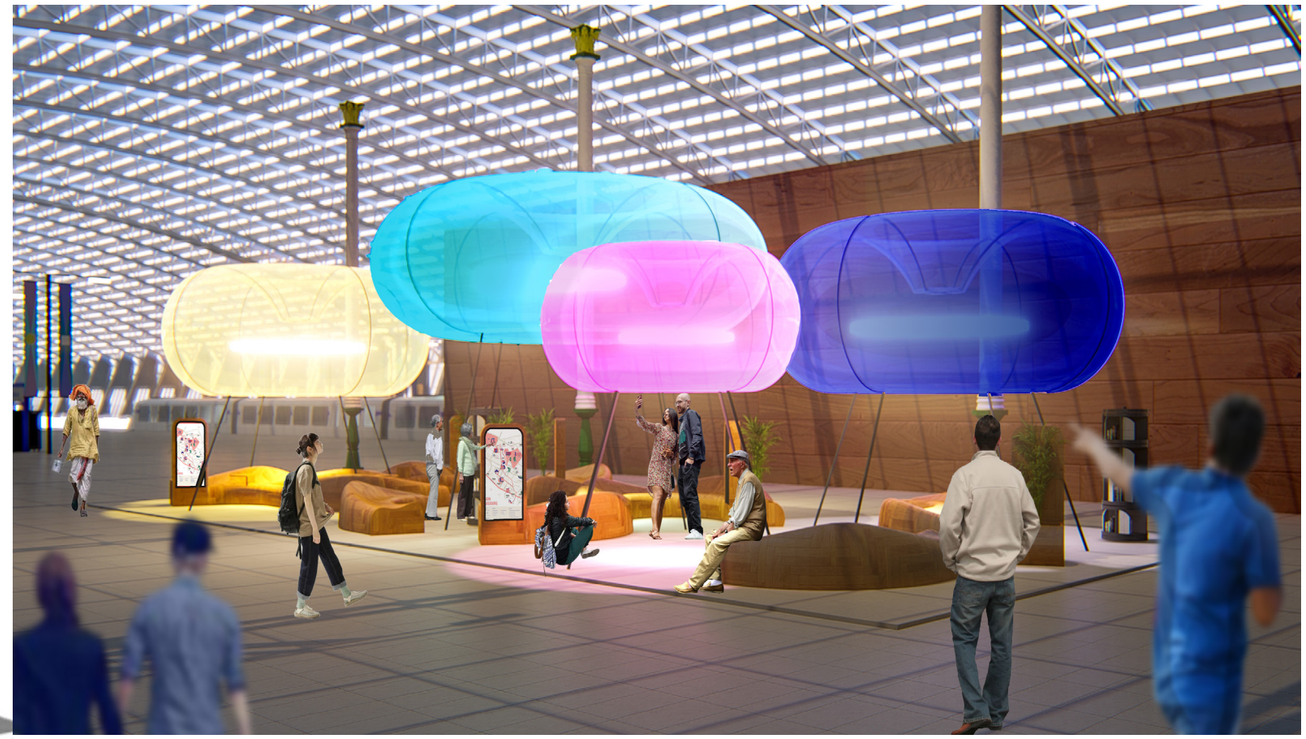
Floor Plan
(not to scale)

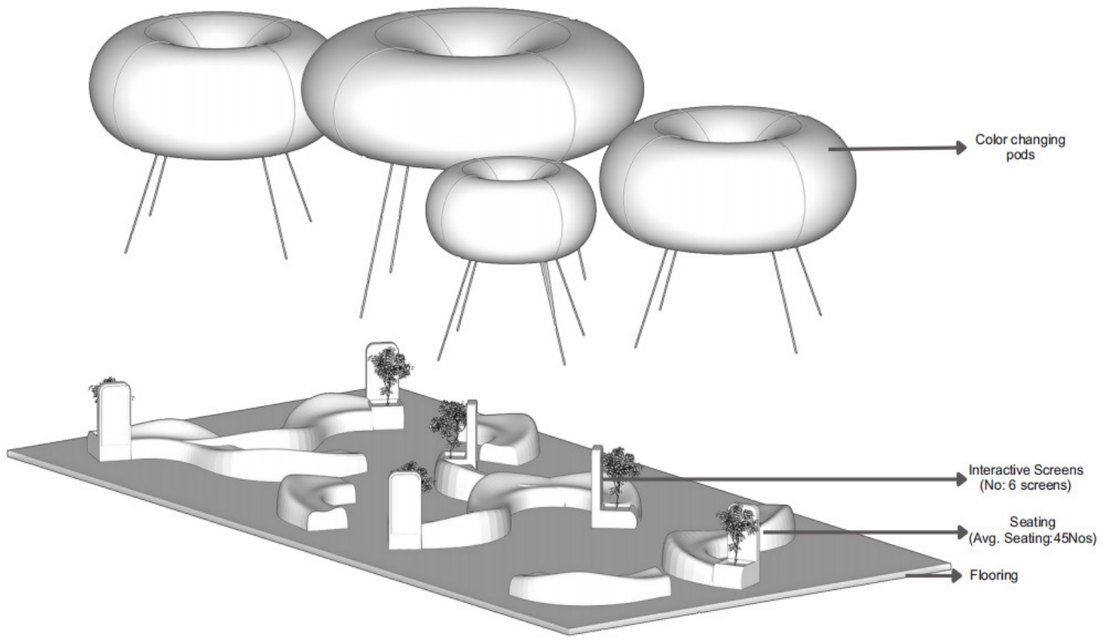


Elevation - B

INSTALLATION DESIGN AT WAVERLY STATION - EDINBURGH







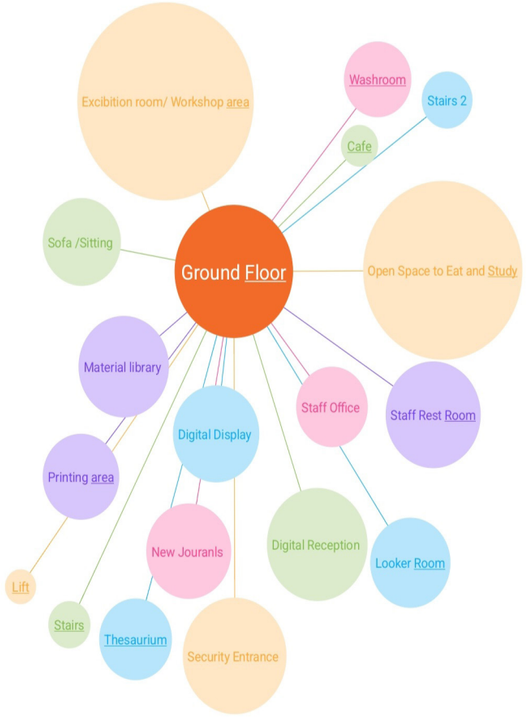
Exploded isometric View

REDESIGN OF LIBRARY AT HERIOT WATT UNIVERSITY - GALASHIELS

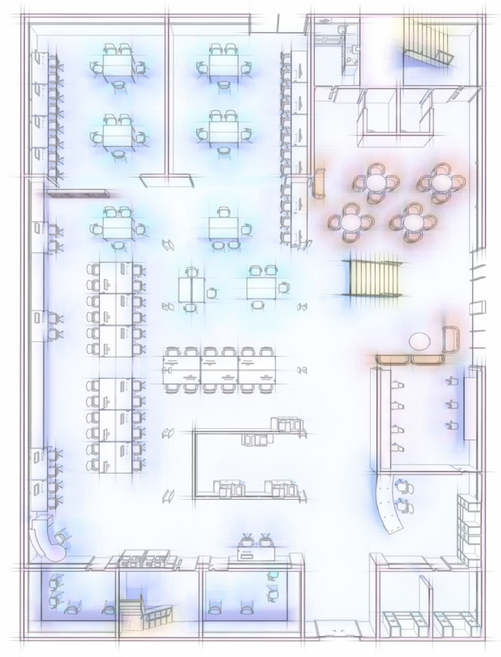
SOFTWARES USED

AUTODESK AUTOCAD
AUTODESK REVIT
LUMION
Adobe Photoshop

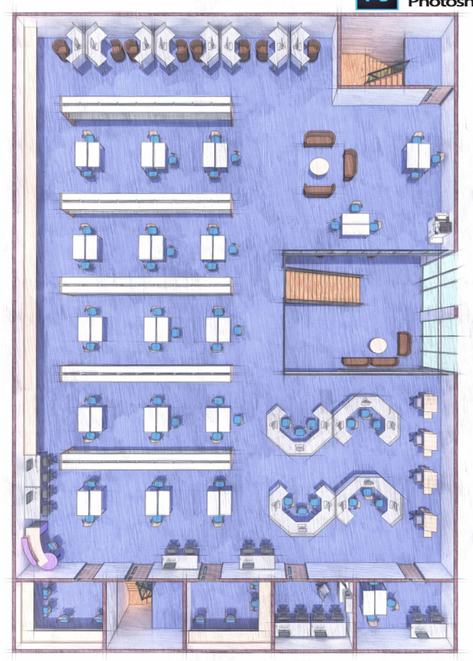
Library Zoning



Existing Floor Plan

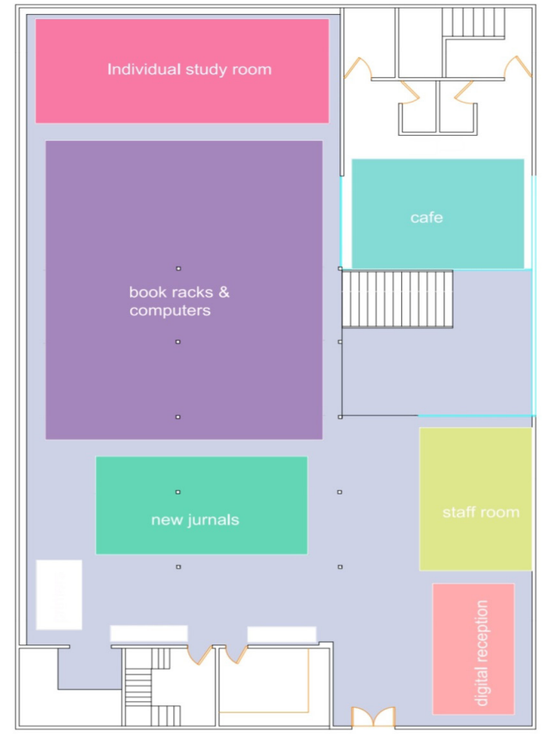


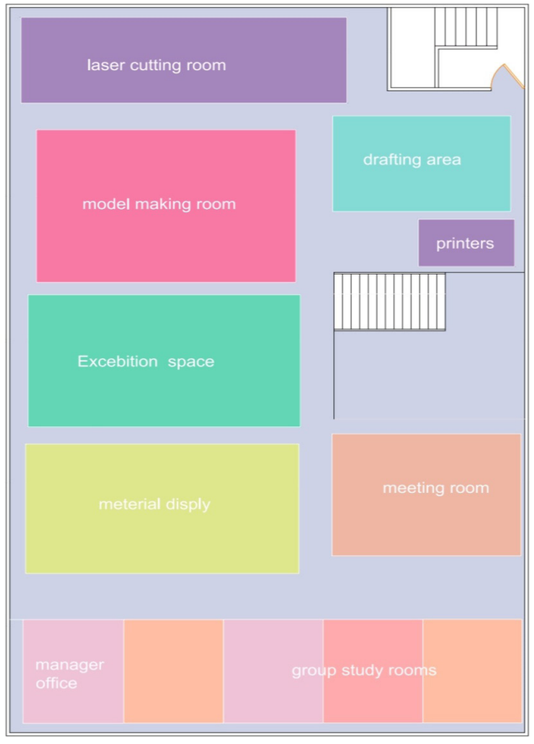
Ground Floor



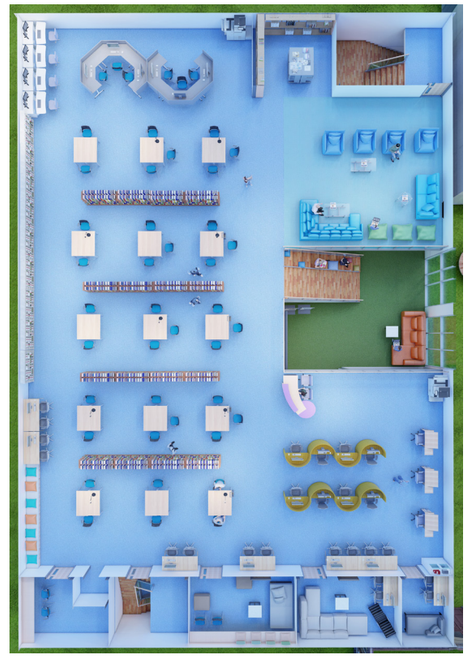
First Floor

Updated Floor Plan





Ground Floor



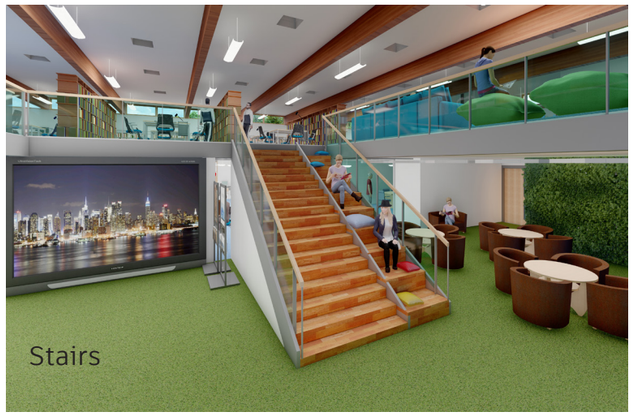
First Floor

REDESIGN OF LIBRARY AT HERIOT WATT UNIVERSITY - GALASHIELS

Sections A-A

Sections B-B

Elevations


Stairs

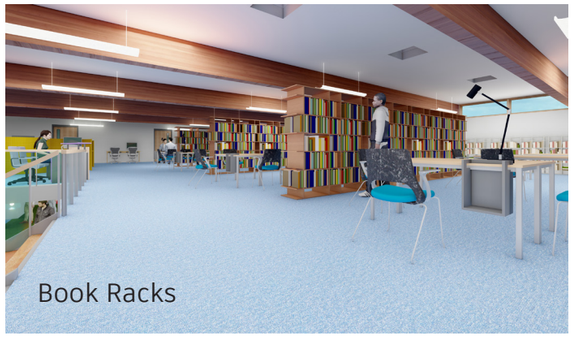
Cafe Area

Entrance Timeline


Study Area


Material slidin-


Material Library

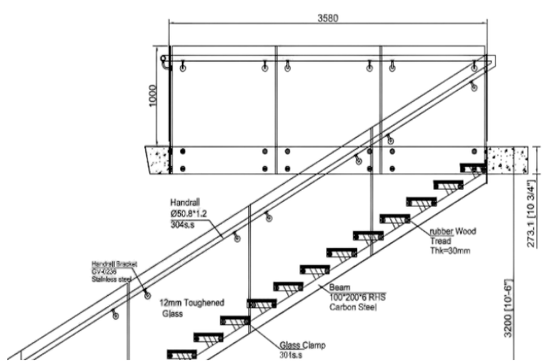

Book Racks

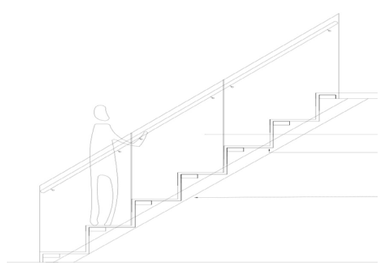

View from recreation area


Mezanine floor reception

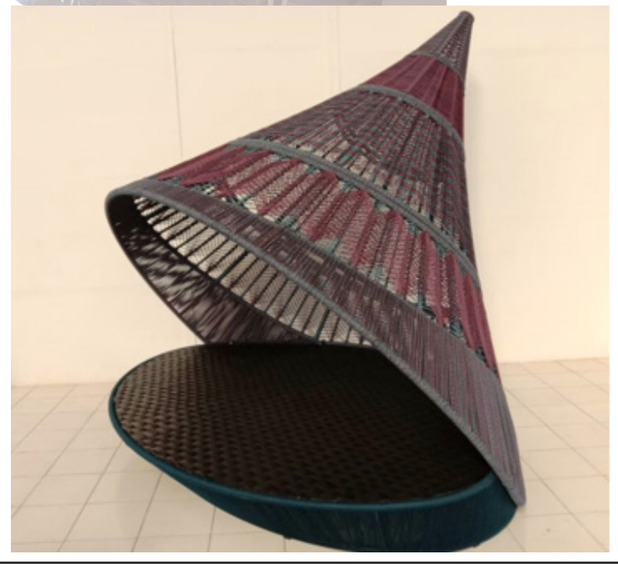

Reception

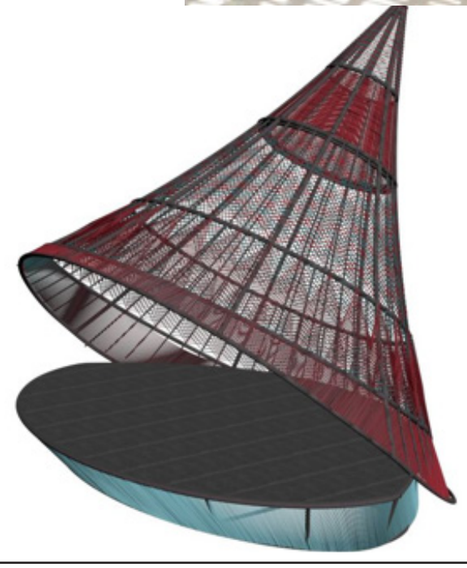
Detail Drawing



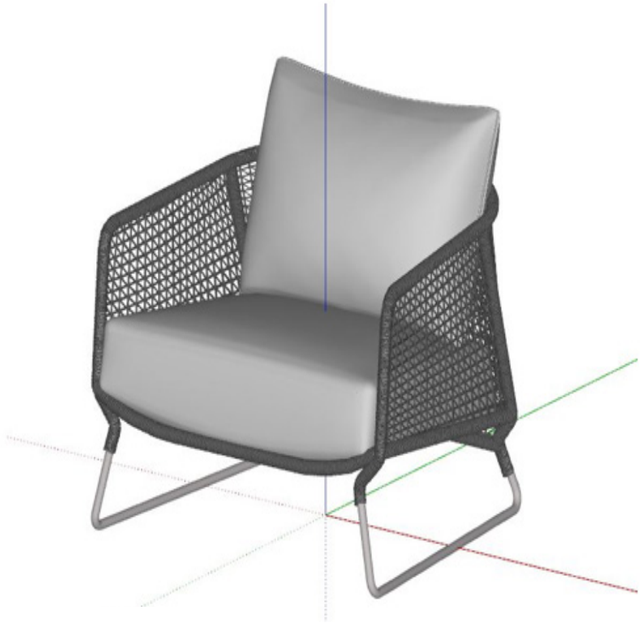


FURNITURE MODELLING

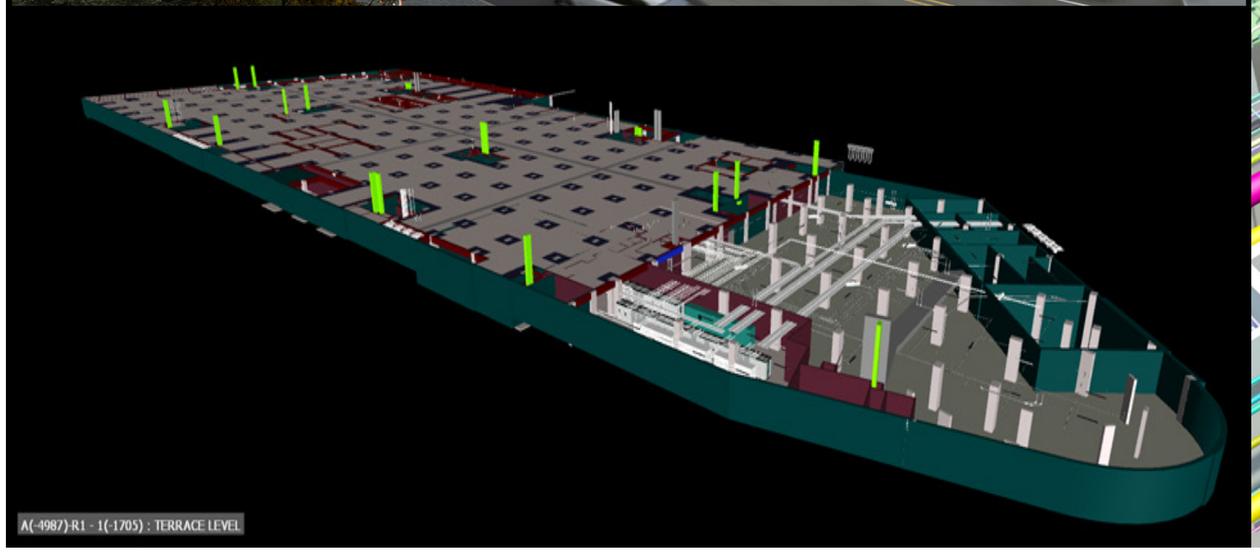


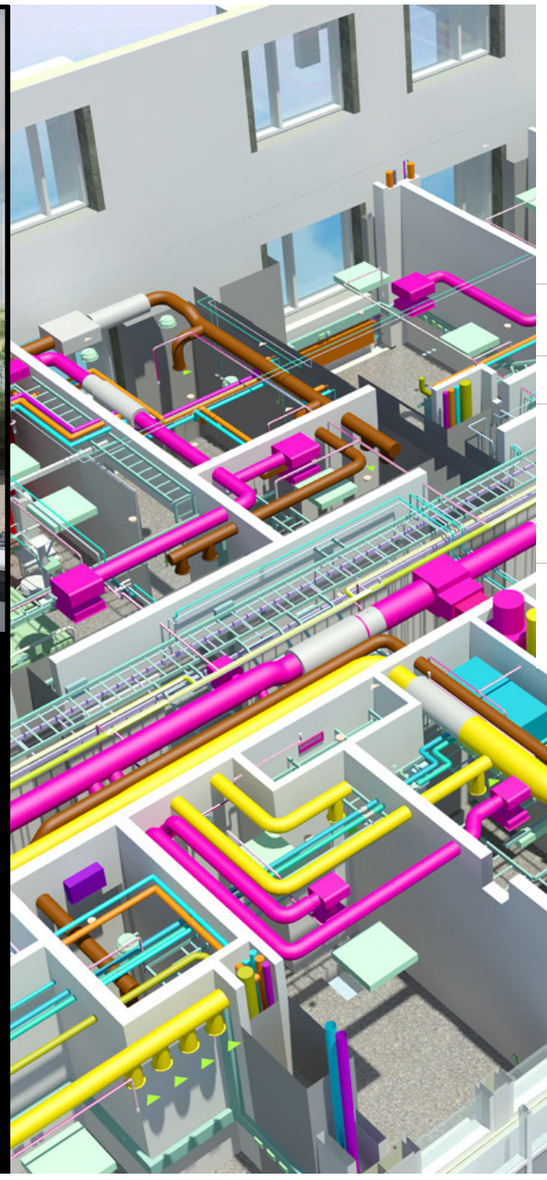


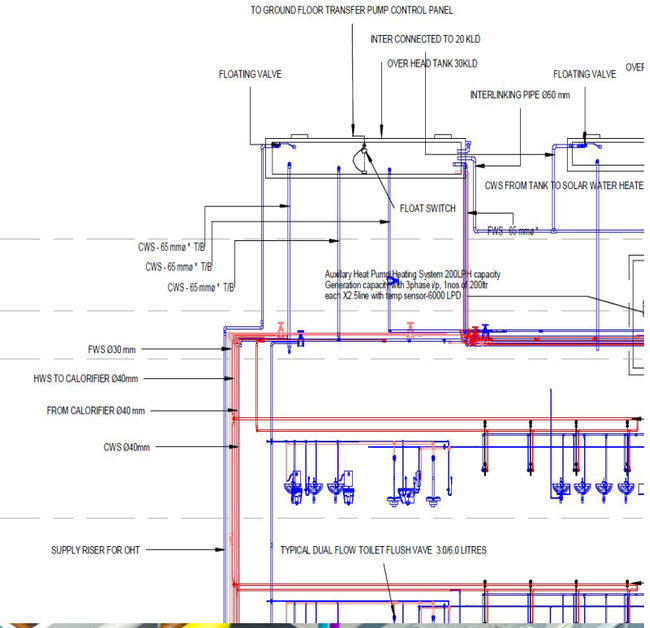
FURNITURE MODELLING

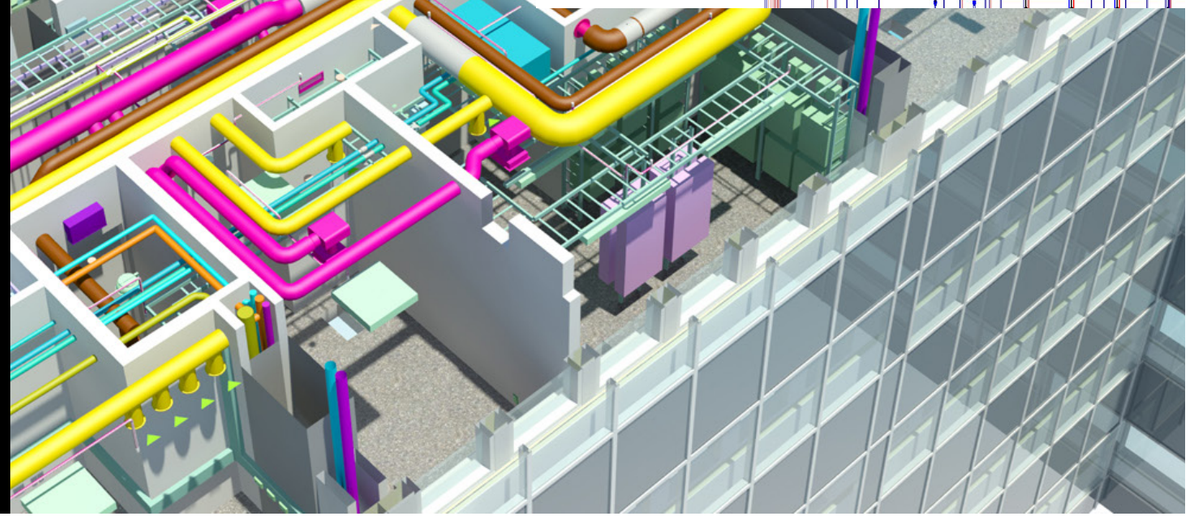


BUILDING INFORMATION MODELLING AT VENKATARAMANAN ASSOCIATES



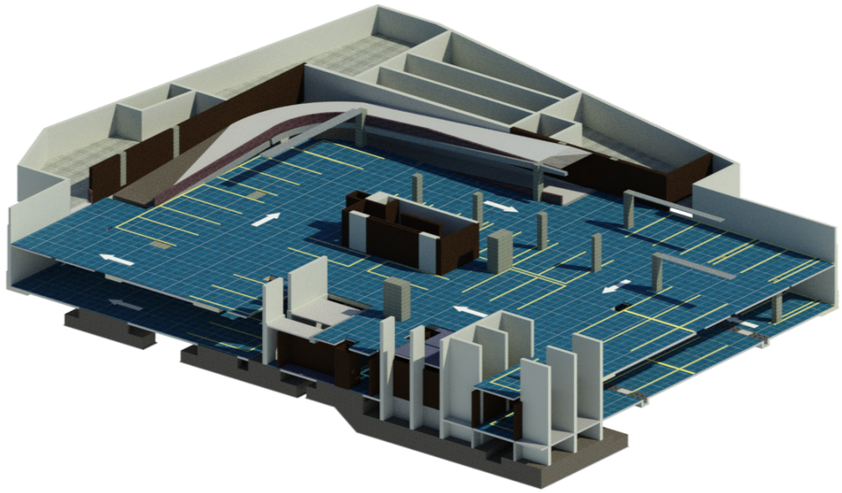




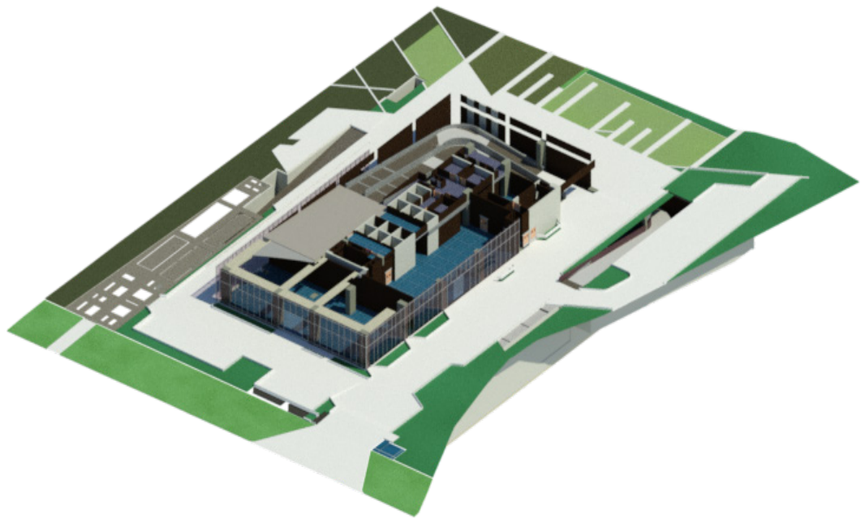


RETAIL OUTLET

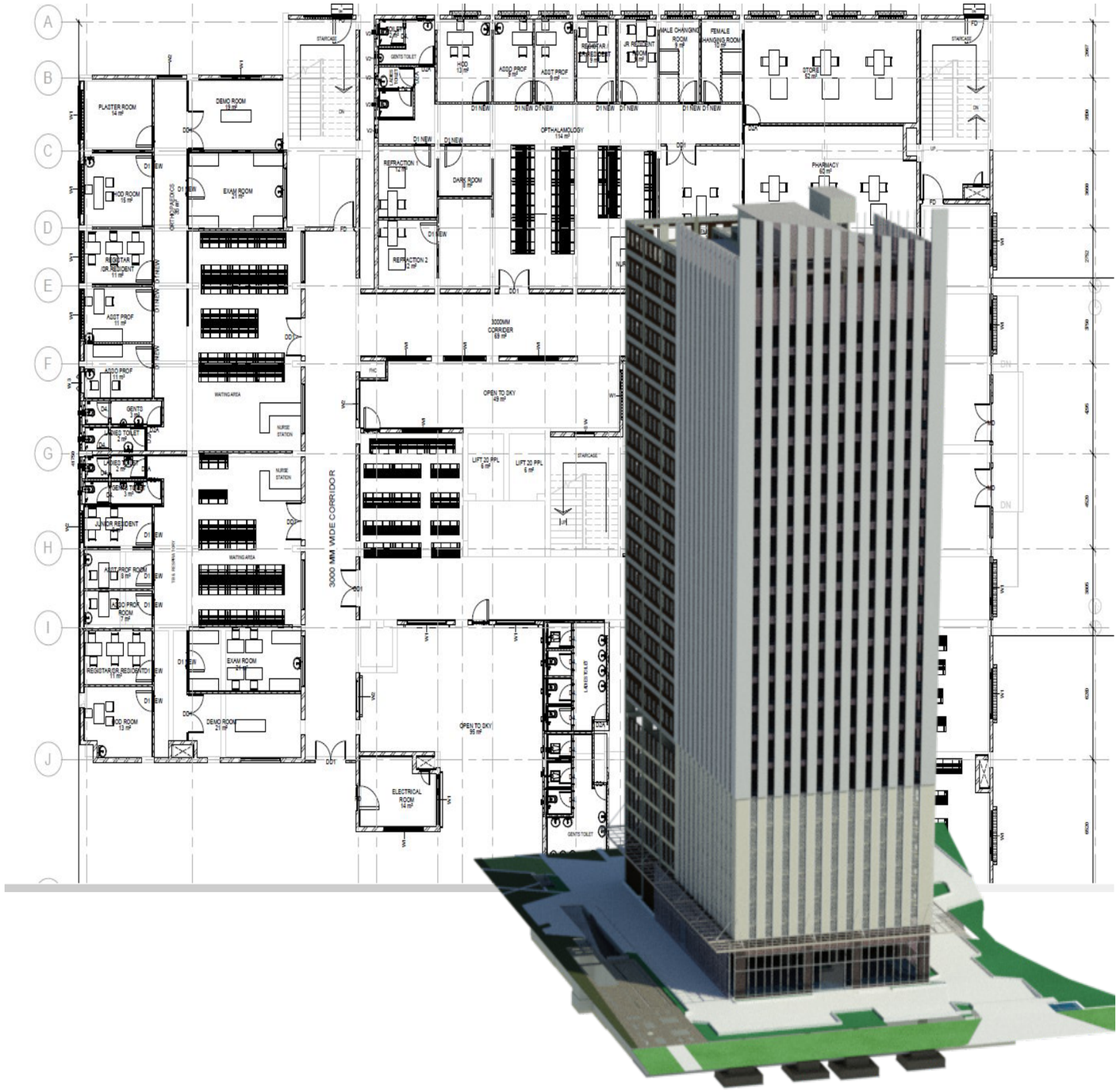
BUILDING INFORMATION MODELLING AT VENKATARAMANAN ASSOCIATES



Cut section of basement-2 and basement-1



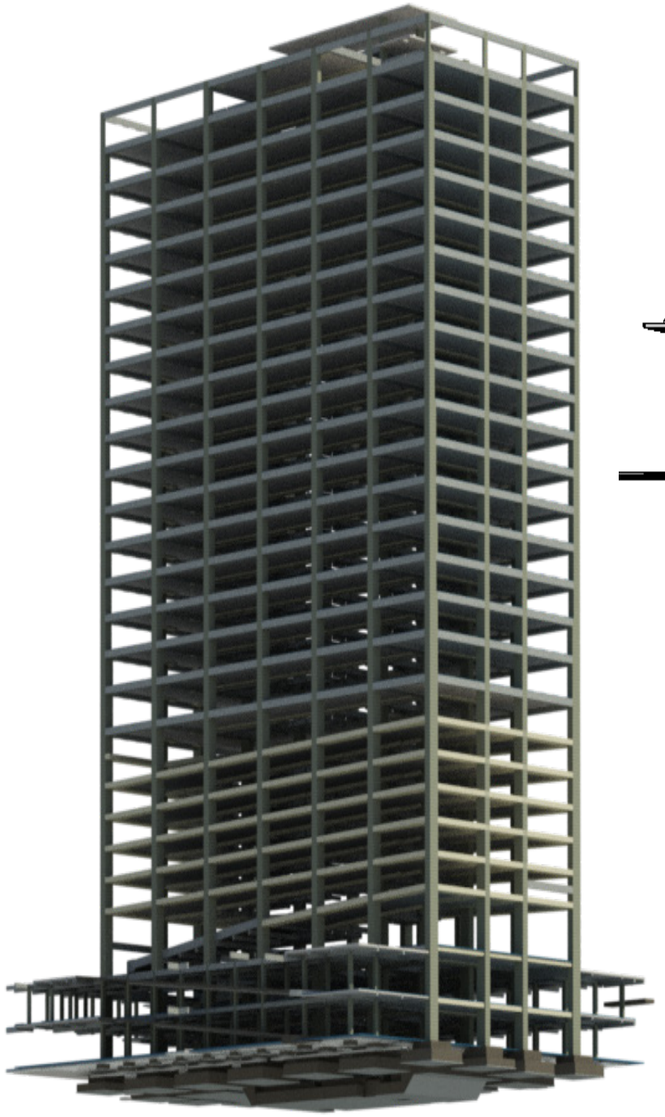
Landscape



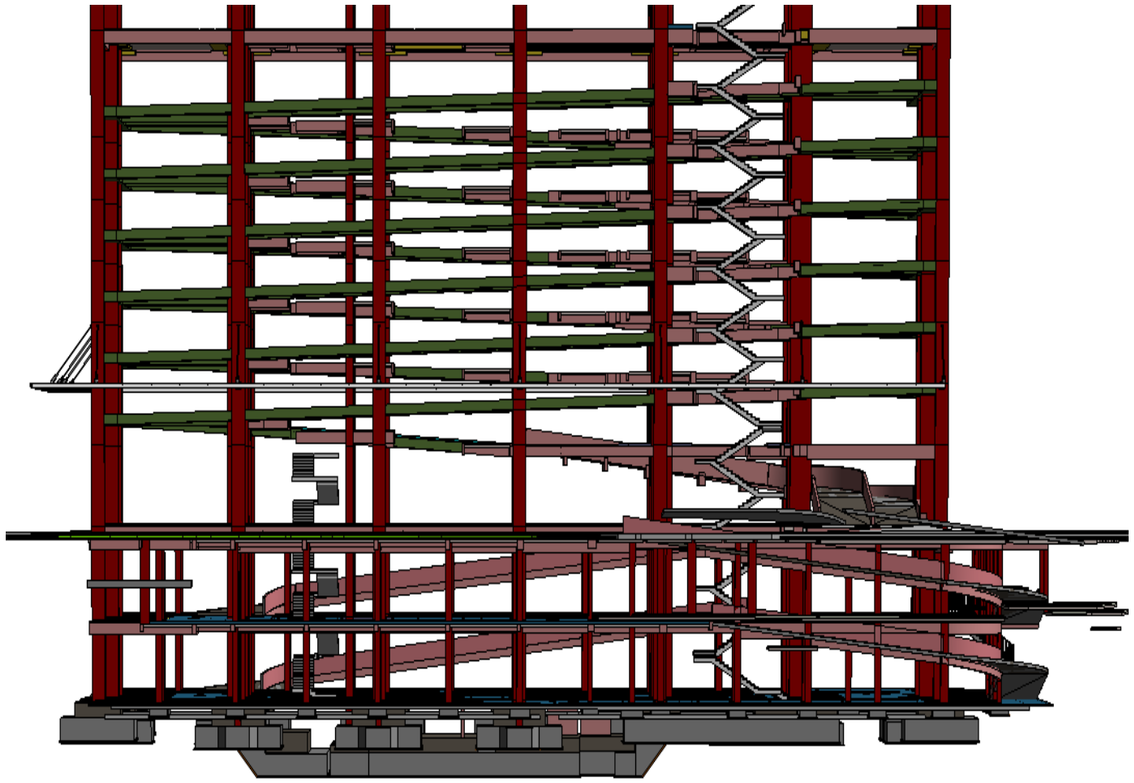
South-West Elevation

COMMERCIAL COMPLEX.
Total Built up area of 732000 Sqft

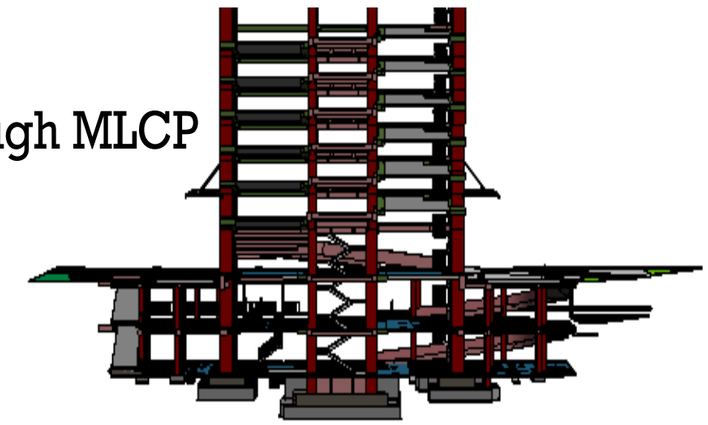
BUILDING INFORMATION MODELLING AT VENKATARAMANAN ASSOCIATES

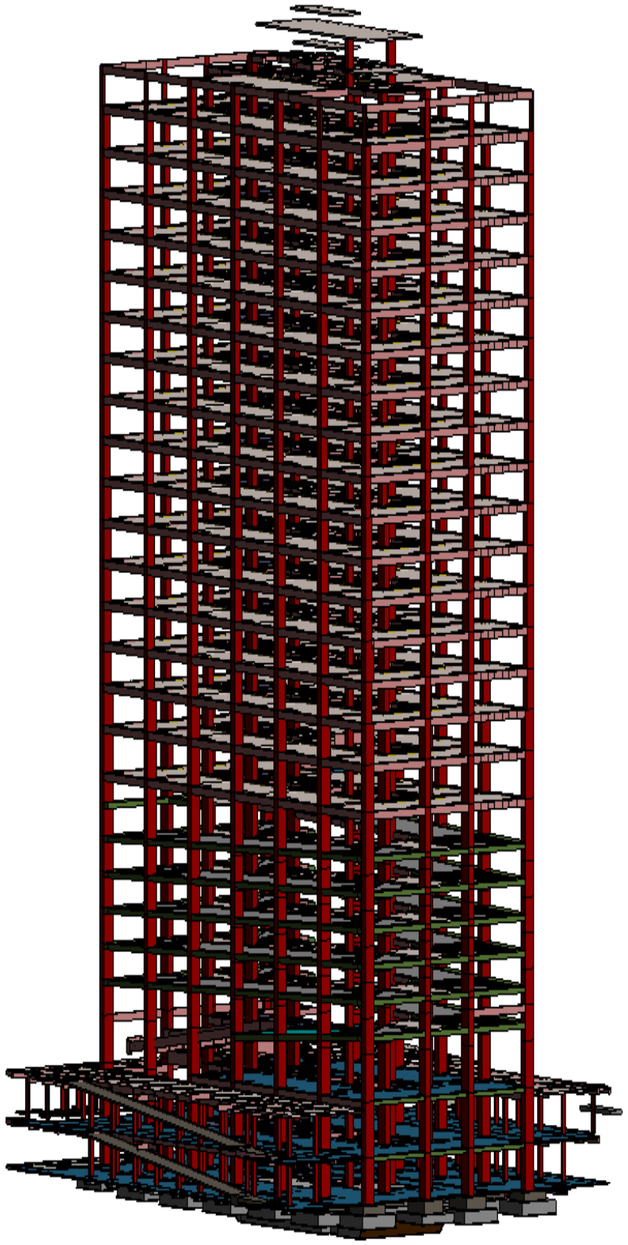


Rendered Model



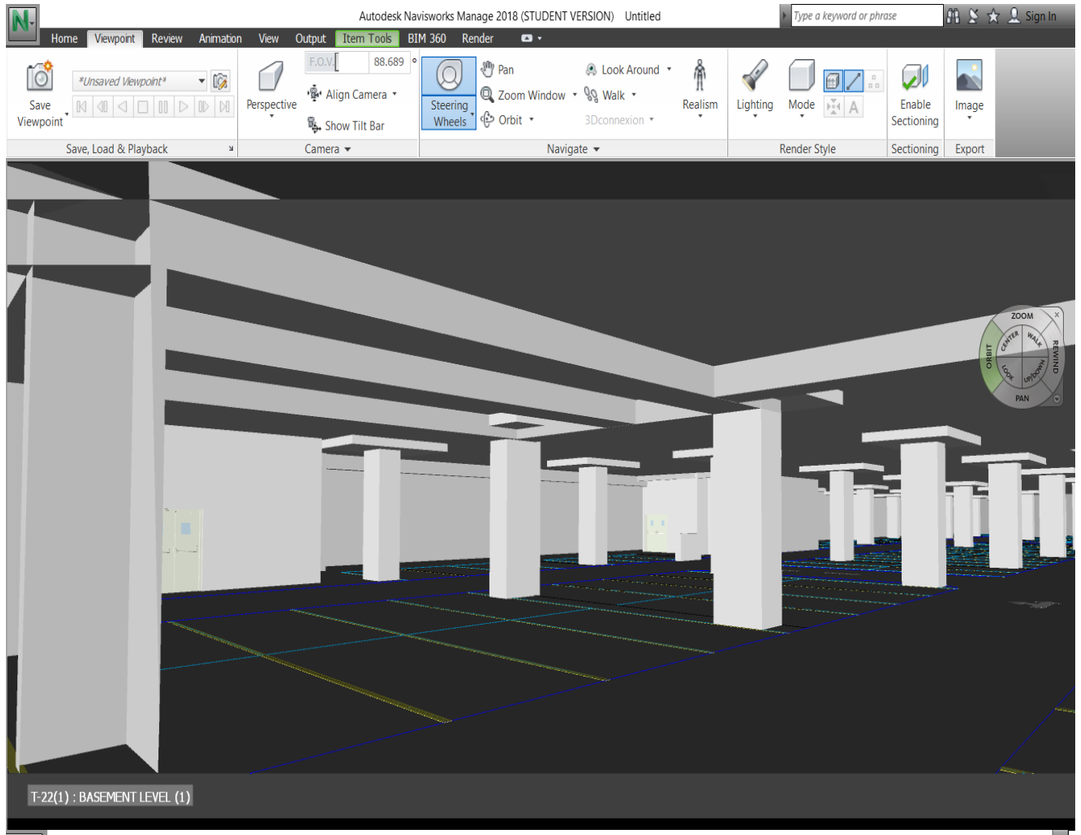
Cut section through MLCP

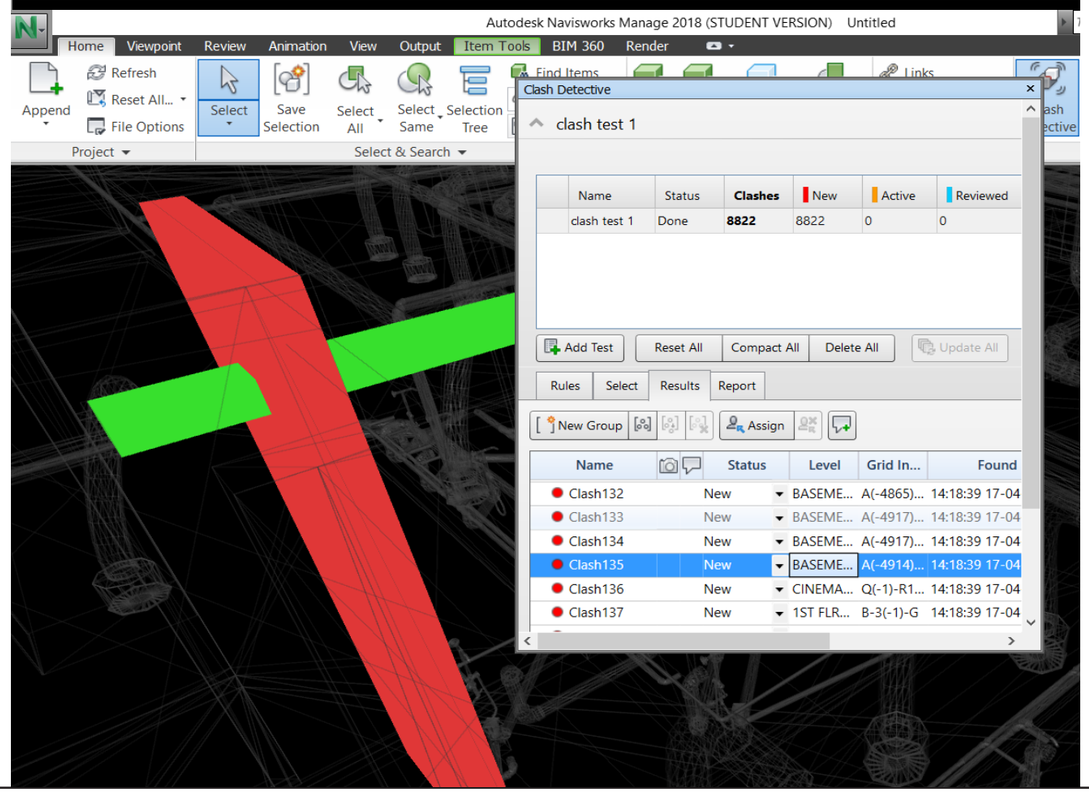




3D Structural Model

BUILDING INFORMATION MODELLING AT VENKATARAMANAN ASSOCIATES





Schedule Documentation:

	A	B	C	D	E	F	G	H	I
1	Footing Details								
2	Type Of Footing	L	B	D	d	Column Name	Pedestral depth	Pedestral Length	Pedestral Breadth
3	F1	7700	7050	2600	1300	C8, C12	1300	5000	4350
4	F2	7400	6750	2500	1200	C14, C18, C5	1300	4800	4150
5	F3	7000	6350	2400	1200	C24, C3, C2	1200	3750	4400
6	F4	6650	6000	2200	1100	C23, C1	1100	4200	3550
7	F5	6400	5750	2100	1250	C4, C22, C25	850	4200	3550
8	PF1	1800	1650	625		PC7, PC19, PC40			
9	PF1A	2000	1850	650		PC9			
10	PF1B	1850	1700	625		PC36			
11	PF2	1650	1500	625		PC18, PC26, PC31			

	A	B	C	D	E	F
1	LIST OF INPUTS					
2	DESCIPLINE	DRAWING FILE NAME	DRAWING NO	REVISION	DATE	Notes
3		B1-A- 2000 Basement-02	B1-A-2000	R1	19.11.2018	
4		B1-A- 2001 Basement- 01	B1-A-2001	R1	19.11.2018	
5		B1-A- 2002 Ground Floor	B1-A-2002	R1	19.11.2018	
6		B1-A-2003 FIRST FLOOR PLAN	B1-A-2003	R0	09.07.2018	

<Door Schedule>

A	B	C	
Family and Type	Width	Height	
FD1: FD	1500	2100	3
FD1: FD 1	1500	2400	9
FD1: ID	1500	2100	1
FD2: FD2	1200	2400	1
FD: FD 1	1500	2400	1
HI: HI	900	1500	5
M_Single-Flush: D1	1100	2100	1
M_Single-Flush: D2	1100	2100	3
M_Single-Flush: D3	1100	2100	1
M_Single-Flush: SD	750	1500	3
M_Single-Flush: SD	600	1500	6
Grand total: 804			

	A	B	C
1	Column Detailes		
2	Sl No	Size	Names
3	1	600X300	PC1, PC2, PC
4	2	1000X1650	C1, C2, C3, C4, C5, C10, C11, C12, C1 C16, C17, C18, C1 C22, C23, C2
5	3	600X600	PC5
			PC6, PC7, PC8, PC9

Building Execution Plan

Venkataramanan Associates

Proposed Commercial Complex

Project BIM Execution Plan

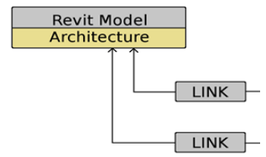
This Project BIM Execution Plan (BEP) is a detailed document that defines how the project will be executed, monitored and organised with regard to BIM.

The intent of the BIM Execution Plan is to provide an outline that will ensure all parties involved are clearly aware of the opportunities and responsibilities associated with projects that implement BIM.

The plan defines why we are using BIM on the project. It sets goals, objectives and

CONTENTS

Venkataramanan Asso



Model description document (MDD)
Each modelling team should include a model descri
The document should describe the contents of the

Permission and access
The following document management issues shoul
file/folder maintenance, etc.

COLLABORATION

Collaboration strategy

Describe how the project team will collaborate. Inc
Discuss if training is required across the project tea

Schedule of information exchange

Venkataramanan Asso

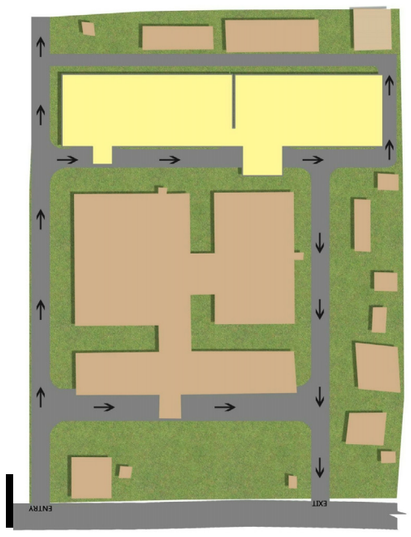
LOD 500 (As-Built)	

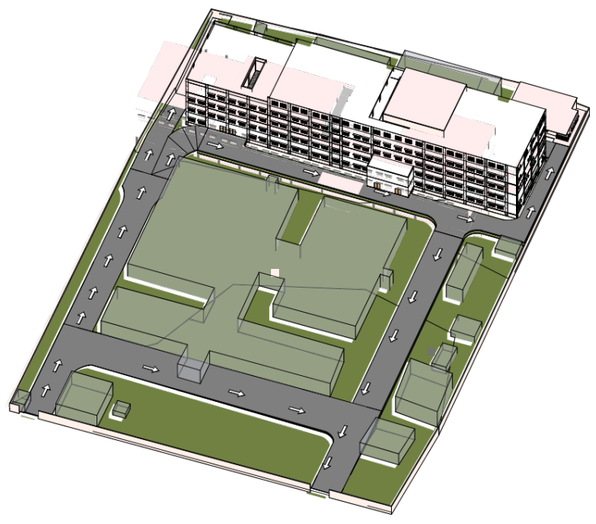
QUALITY CONTROL

Quality control checks
The following checks should be performed to assure
to be carried out internally by the BIM Coordinator.

Check	Definition
Visual check	See that the

BUILDING INFORMATION MODELLING AT SWIFTERZ CREATIVE SERVICES



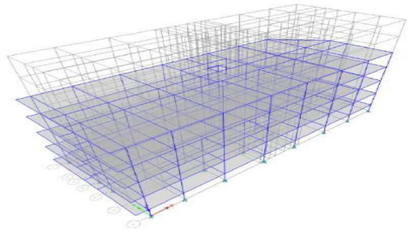


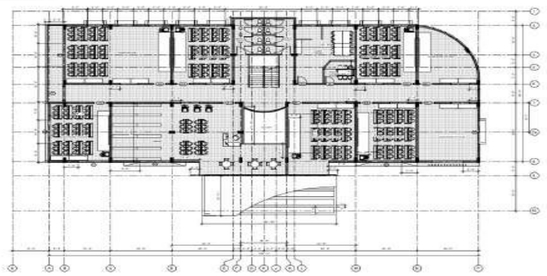
Hospate Government Hospital.
150 Bedded Super Specialty Hospital, 190000 Sqft

3D VIEW

Konni Government Hospital
500 bedded teaching hospital, 600000 Sqft

PROJECTS COMPLETED AT REUNITE INTERIORS AND CONSTRUCTIONS





- **Client: Mr. Shahbuddin**
- **Location: Hoskote**
- **Project Type:**

  Institution
- **Plot Area: 112000 Sft**
- **Super Built up Area: 39500Sft**
- **Entry: North**
- **Services Offered:**

1. Floor Plan
2. Structural Design
3. Elevation design and walk through
4. Quality Assurance and Control

- **Technical Support:**
- Auto Cad - Floor Plan
- ETABS and Staad RCDC - Structural design and Detail
- Revit - 3D Model
- Lumion - Render and Walk through

- **Client: Ms. Shylaja**
- **Location: Jalgao**
- **Project Type: Institutional**
- **Plot Area: 84000 Sft**
- **Super Built up Area: 42600 Sft**
- **Entry: East**
- **Services Offered:**

1. Floor Plan
2. Elevation design and walk through
3. Quality Assurance and Control

- **Technical Support:**
- Auto Cad - Floor Plan
- Revit - 3D Model
- Lumion - Render and walkthrough

PROJECTS COMPLETED AT REUNITE INTERIORS AND CONSTRUCTIONS

- **Client: Ms. Suhasini**
- **Location: Ramnagar**
- **Project Type: Farm house**
- **Plot Area: 256000 Sft**
- **Super Built up Area: 2600 Sft**
- **Entry: East**
- **Services Offered:**

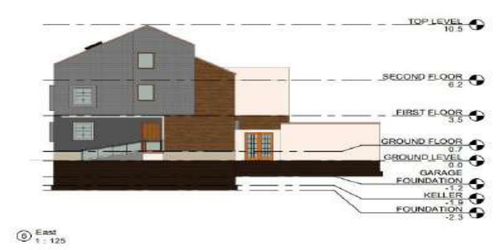
1. Floor Plan
2. Structural Design
3. Elevation design and walk through
4. Quality Assurance and Control

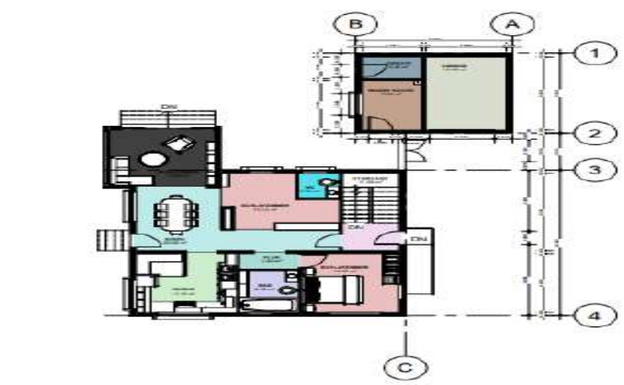
- **Technical Support:**
- Auto Cad - Floor Plan
- Revit - 3D Model
- Lumion - Render and walkthrough

- **Client: Mr. Nithin**
- **Location: Germany**
- **Project Type: Residential**
- **Plot Area: 4500 Sft**
- **Super Built up Area: 1300 Sft**
- **Entry: East**
- **Services Offered:**

1. Floor Plan
2. Elevation design

- **Technical Support:**
- Revit - 3D Model
- Lumion - Render





PROJECTS COMPLETED AT REUNITE INTERIORS AND CONSTRUCTIONS

- **Client: Mr. Abhilash**
- **Location: Raichur**
- **Project Type: Residential**
- **Plot Area: 1200 Sft**
- **Super Built up Area: 1800 Sft**
- **Entry: East**
- **Services Offered:**

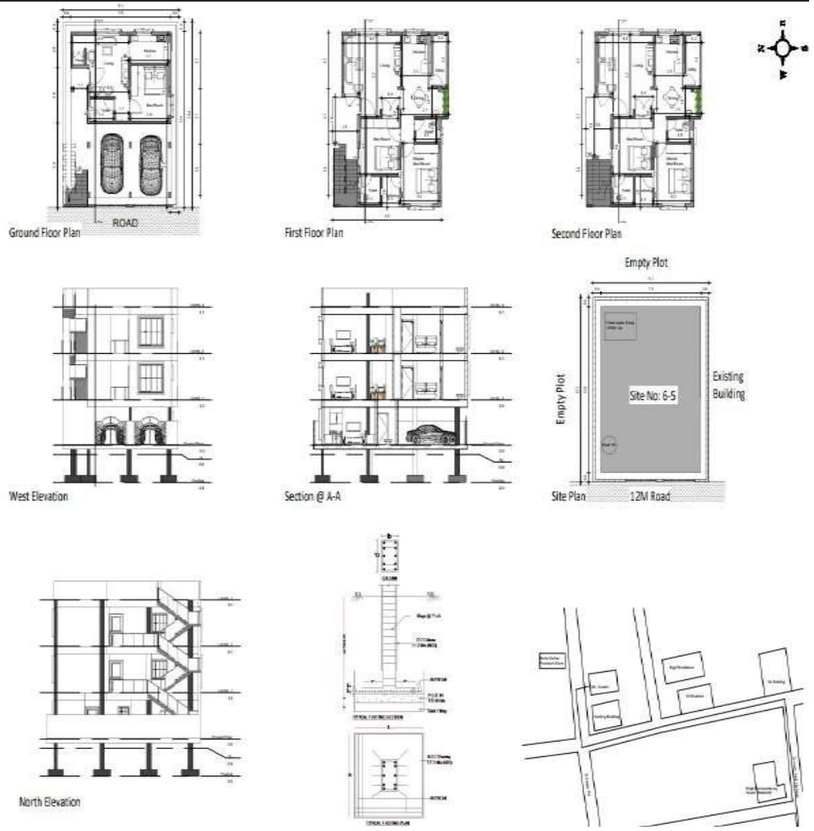
1. Floor Plan
2. Elevation design

- **Technical Support:**
- Revit - 3D Model
- Lumion - Render

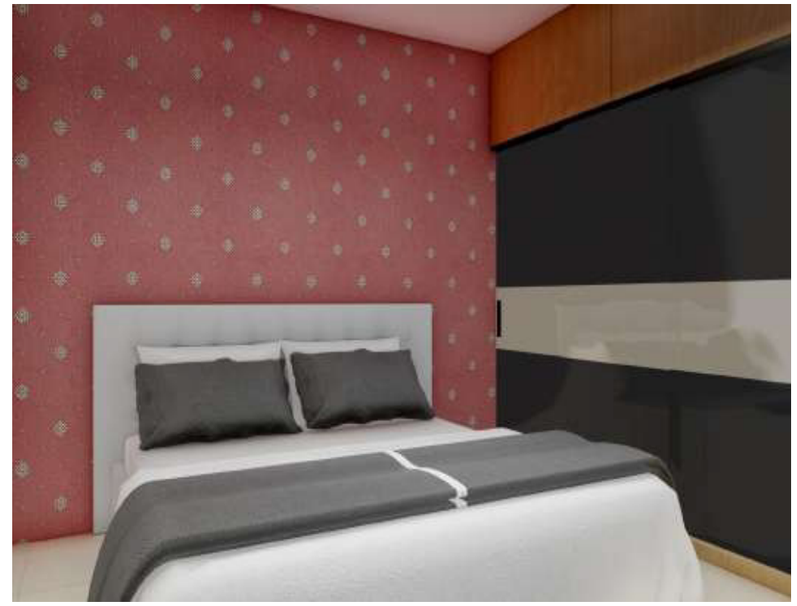
- **Client: Mr. Suresh**
- **Location: Medahalli**
- **Project Type: Residential**
- **Plot Area: 1200 Sft**
- **Super Built up Area: 3600 Sft**
- **Entry: North**
- **Services Offered:**

1. Floor Plan
2. Structural Design
3. Elevation design
4. Quality Assurance and Control

- **Technical Support:**
- Auto Cad - Floor Plan
- Revit - 3D Model
- Lumion - Render



PROJECTS COMPLETED AT REUNITE INTERIORS AND CONSTRUCTIONS



Thank you for taking the time to review my portfolio. I hope it gives you a clear sense of my passion for design and the depth of my experience across various projects. I look forward to the opportunity to collaborate and contribute to future endeavors. Should you have any questions or need further information, please don’t hesitate to reach out.

Best regards,

Chandan Jagannath
25/4 Brunswick Road
Edinburgh EH7 5GY
+44 7909210519