

Residence Project

Project Type - RESIDENTIAL
Built-up area - 1600sqft (approx.)
Year - 2025

This residential project focuses on creating a calm, light-responsive home planned around site orientation and daily routines. The design prioritizes open planning, natural daylight, and passive ventilation while maintaining clear zoning between public and private spaces. A warm, contemporary palette, controlled material contrasts, and subtle lighting details enhance spatial flow and balance functionality with a calm, lived-in atmosphere.

This project explores the redesign of an existing residential layout by reworking internal spaces while retaining the peripheral walls and service cores.



EXISTING LAYOUT

- usable space
- retained service core
- columns

Render of east wall – dining area



SITE ANALYSIS

Location

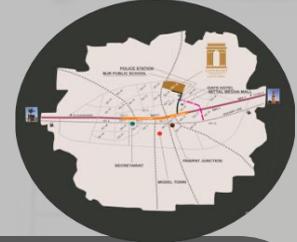


TDI Connaught Estate, located in Sector 23, Panipat, is one of the newly developed residential areas. The township offers a mix of modern housing options, including plots, villas, and independent floors, designed to cater to contemporary lifestyles. With well-planned infrastructure, landscaped green spaces, and wide roads, the area provides a blend of comfort and convenience.



Connectivity

Its strategic location ensures seamless connectivity to major roads, while proximity to schools, hospitals, and shopping centers enhances its appeal.



Infrastructure:

Well-developed roads, streetlights, drainage, and security measures within the gated Community.



Township Layout

Surroundings & Infrastructure

Sides (North & South): Attached houses, affecting ventilation and privacy.

Front/ Facing (East): Green belt enhancing the view and environment.

Rear (West): Neighboring properties.



SWOT Analysis

Strengths

- Prime location** within a gated community.
- East-facing orientation** with good daylight and ventilation.
- Green belt frontage** improving air quality and reducing noise.
- 4th-floor elevation** supporting natural airflow.

Weaknesses

- Limited scope for future expansion** due to adjacent buildings.
- Dependence on community management** for maintenance and security.

Opportunities

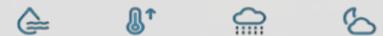
- Scope for sustainable and energy-efficient design solutions.
- Potential to create a calm, nature-integrated home with strong daylight and cross ventilation.

Threats

- Proximity to **high-voltage electricity lines** near the green belt.
- Future surrounding developments impacting environmental quality.

Climatic Considerations:

Panipat experiences a composite climate—hot summers, cold winters, and monsoons.



Sun Path And Wind Direction



Concept

Framing Light- open plan residence

Project- Residence 2bhk
4th floor, TDI Panipat
Built-up area- 1600 sqft (approx.)
Date- April 2025

Responding to the east-facing site and green belt frontage, the design explores an open-plan layout that maximises daylight and enables cross ventilation through aligned east-west openings. The intent is to create a home that feels breathable, light-responsive, and energy-efficient—shaped by site orientation, urban context, and everyday routines.



Airy · Calm · Contemporary · Light-filled · Balanced



Design Intent & Spatial Vision

The concept translates into spatial decisions that follow the rhythm of the day. A **coffee-reading nook** and **breakfast area** are placed along the east frontage, where full-height **floor-to-ceiling openings** frame views of the **green belt** and allow soft morning light to filter deep into the home. This space is envisioned as a **peaceful start to the day**. Private zones are pushed to the rear (west) to benefit from **sunset** views and **acoustic separation** from the street, creating a **quieter retreat for the evening**. This zoning strategy balances openness and privacy while strengthening the role of natural light in shaping comfort and everyday routines.





The design language is rooted in **contemporary minimalism**, where softness, balance, and contrast shape a calm residential atmosphere. Neutral backdrops are layered with subtle green accents, warm wood finishes and tactile surfaces, creating a calm, lived-in atmosphere that feels modern yet inviting. The overall intent is to achieve visual balance, openness, and emotional comfort.

Material Board



The material palette is composed of **warm wood tones, soft stone finishes, textured fabrics, and semi-matte surfaces** to reinforce warmth without heaviness. Natural textures and muted colours work together to enhance tactility and depth, while sheer and soft finishes help reflect and diffuse light—supporting an airy, cohesive, and timeless interior character.

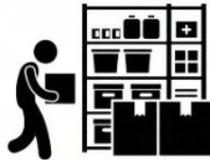
Space Planning Development

CHALLENGES IN OPEN PLAN

While an open-plan layout offers flexibility and fluidity, it also presents specific functional challenges- especially in compact residences.



Privacy (Proxemics)



Storage



Acoustic Overlap

Solution

Zoned layout clearly separates public & private areas for comfort and boundaries.

Dedicated 8x5 ft room for each floor in stilt area is being used as additional storage area..

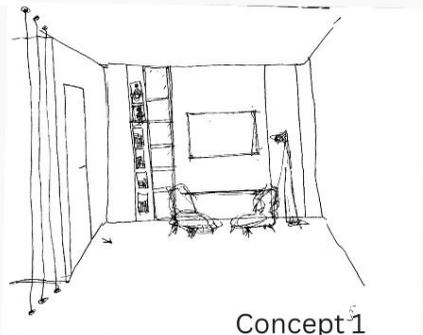
Spatial distancing(private zones away from roadside noise) + soft furnishings (rugs, curtains) reduce sound transmission.

INITIAL CONCEPTUAL SKETCHES

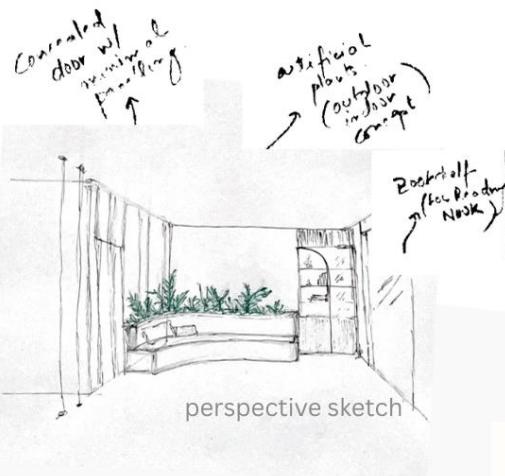


Zoning Without Walls

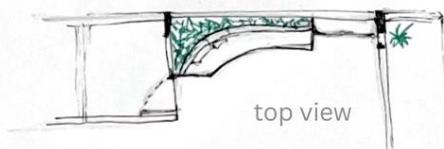
Clear circulation & movement



Concept 1



perspective sketch



top view

Concept 2

couch area reference



bookshelf



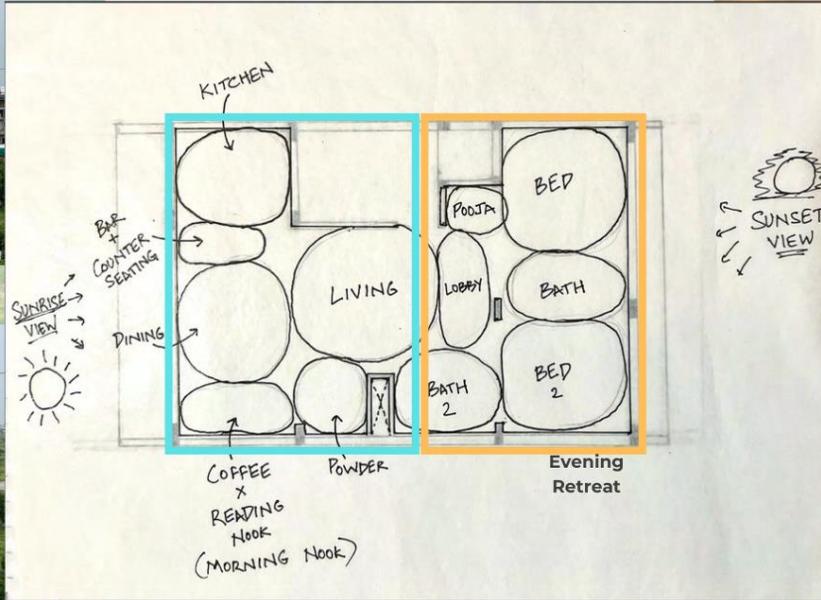
concealed door reference

Coffee/Reading Nook Concept

Planning and Zoning

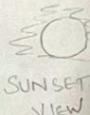
MORNING ZONE
Public

EVENING ZONE
Private



original site pictures

Early exploration of how spaces relate based on light, privacy, and daily rhythm.



GREEN BELT

→ ENHANCES OUTDOOR VIEW

FLOOR TO CEILING OPENINGS (Natural light & Cross Vastu)

KITCHEN in SOUTH-EAST (agni) per Vastu

SEPARATE WOODEN (VENEER) FALSE CEILING (To visually separate the public & private zones)

SUNSET VIEW

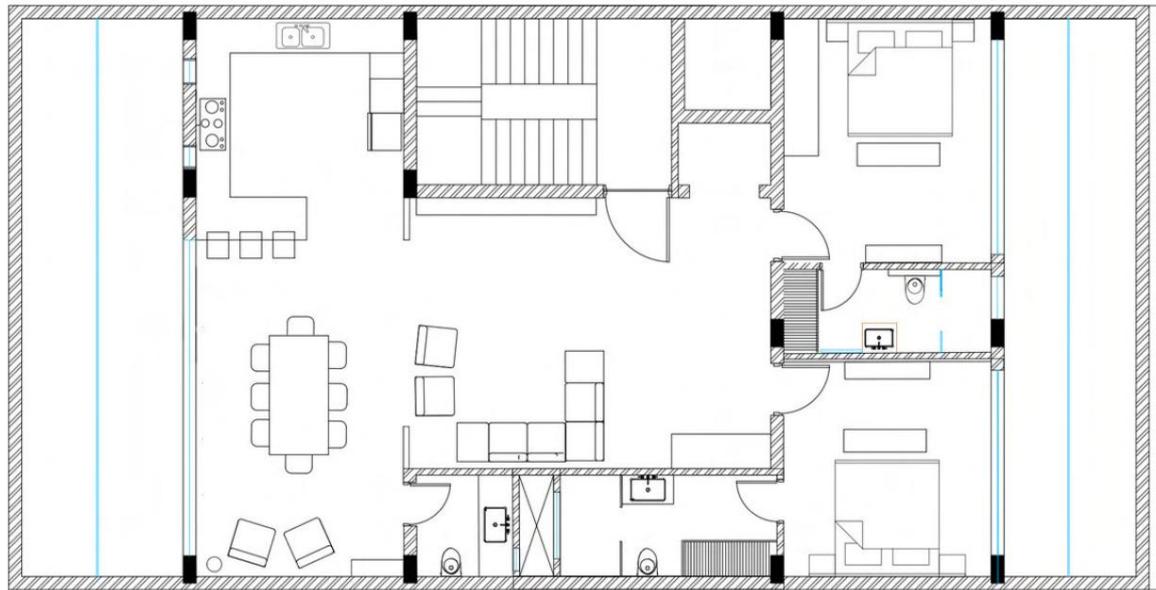
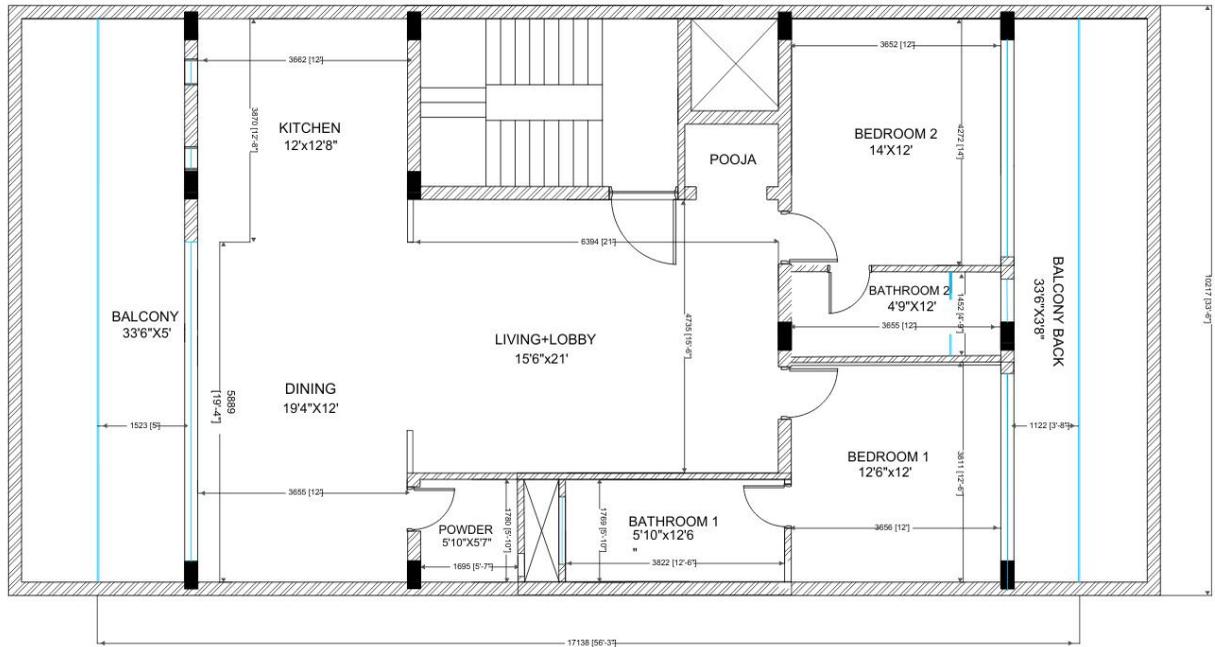
HEAVY (or blackout) CURTAINS (To avoid harsh afternoon sunlight)

SHEER CURTAINS (Top floor privacy)

Open - flexible - interactive SPACES (FOR FAMILY & GUEST)

Use of reflective materials

Dimension & Furniture Layout



East Zone (Public):

- Living, dining & kitchen in open-plan
- Coffee-reading nook
- Floor-to-ceiling openings facing green belt

Transition Zone:

- Buffer corridor
- Storage + circulation

West Zone (Private):

- Bedrooms with attached washrooms
- Acoustic separation
- Controlled west light & evening skies with shaded windows

2BHK RESIDENTIAL LAYOUT



1. KITCHEN WITH BREAKFAST BAR
2. DINING + READING/COFFEE NOOK
3. POWDER ROOM
4. LIVING AREA
5. POOJA

6. BEDROOM 1
7. BATHROOM 1
8. BEDROOM 2
9. BATHROOM 2
10. BALCONY

MOOD BOARD BEDROOM 1



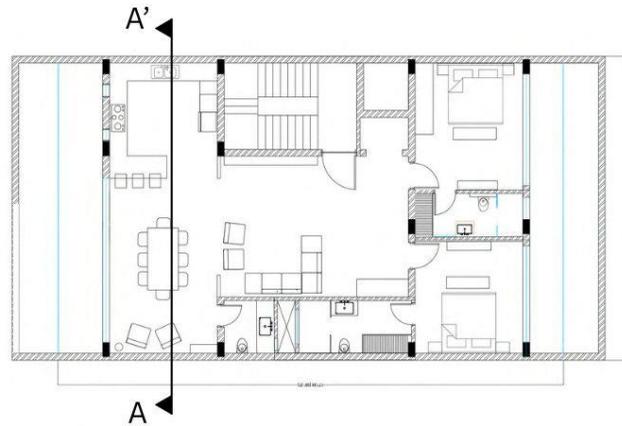
This bedroom is designed as a calm, restorative space using warm neutrals, soft textures, and minimal contrasts. A nature-inspired wallpaper feature brings a touch of the outdoors into the room, adding subtle visual interest while maintaining tranquility. Layered curtains allow light to be filtered and controlled throughout the day, while the muted palette and simple forms help the room feel quiet, balanced, and breathable—supporting rest and everyday comfort.

Material & Finish Palette

- Soft fabric and suede upholstery to enhance comfort and rest
- Nature-inspired wallpaper paired with warm neutral wall finishes
- Matte surfaces and subtle textures for visual calm
- Layered sheers and textured curtains for gentle light control
- A muted palette of beige, taupe, greige, and soft greys to create a restorative atmosphere.

Sectional Elevation

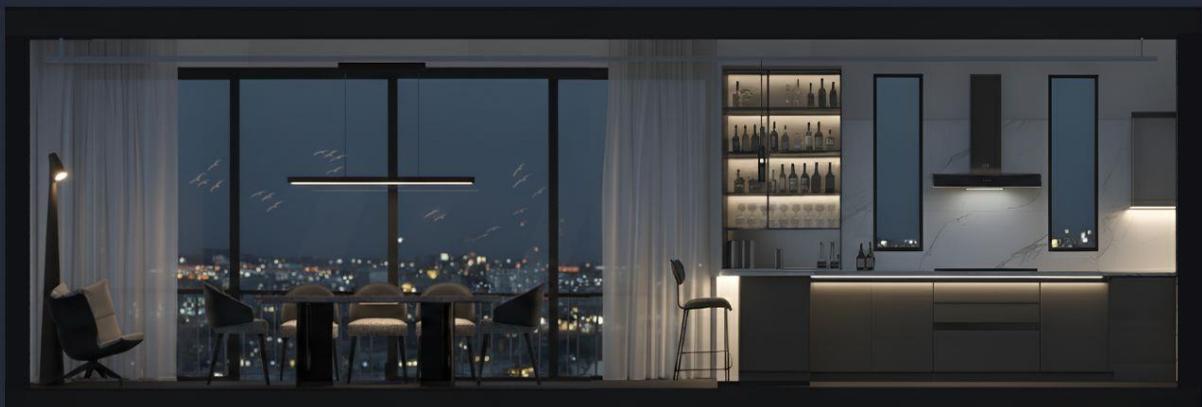
Elevation A-A'



Ceiling Reference

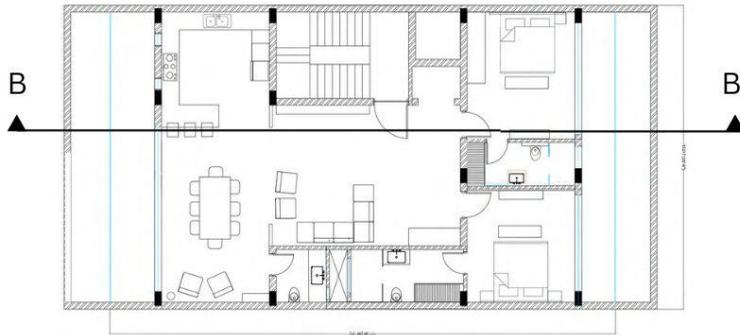


NIGHT VIEW



Sectional Elevation

Elevation B-B'



wooden veneer
visually separates the
public and private zones

Ceiling Reference



NIGHT VIEW



Façade

Conceptual façade sketch of the same G+4 residential building, developed alongside the 2BHK interior project.

