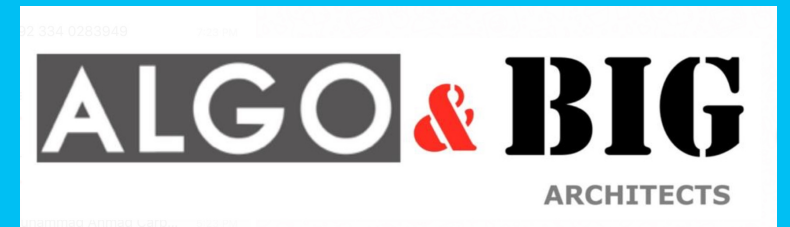


ARCHITECTS: ALGO & BIG

HANGING GARDENS...

Presentation by
Faran Lodhi

16 February 2021



www.algo-big.com

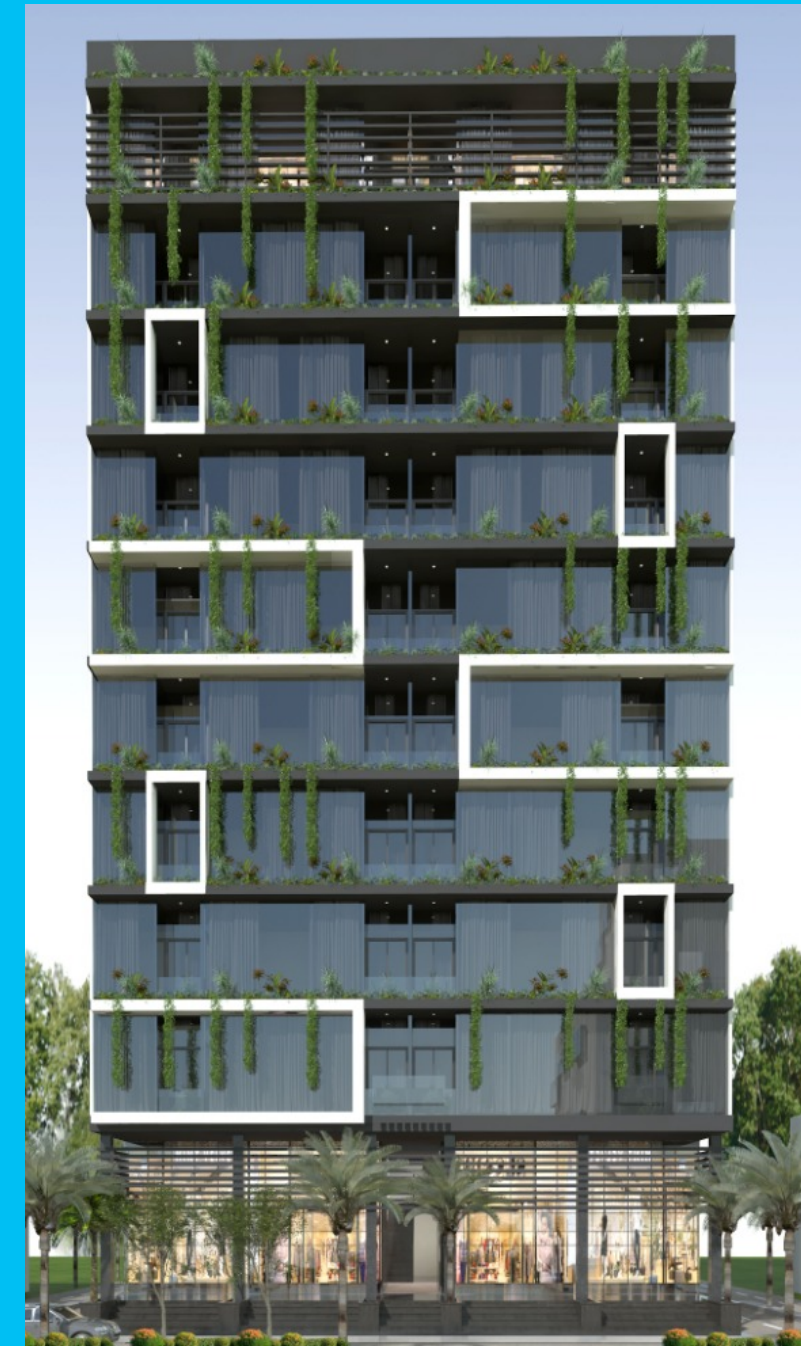


WHY HANGING or VERTICAL GARDEN?

Where once, most of the world was green, today, an average underdeveloped city has two percent of plant life, and ninety-eight percent concrete mega structures. It is a major issue, exacerbating problems such as urban pollution and global warming to the forefront.

OPTION 1

This project not only aims to alleviate the urban aesthetic of the BAHRIA Town Karachi via vertical or hanging garden, but also strives for the betterment of aura, and its impact on the users of the space to elevate productivity and minimise the anxiety that comes with such surroundings.

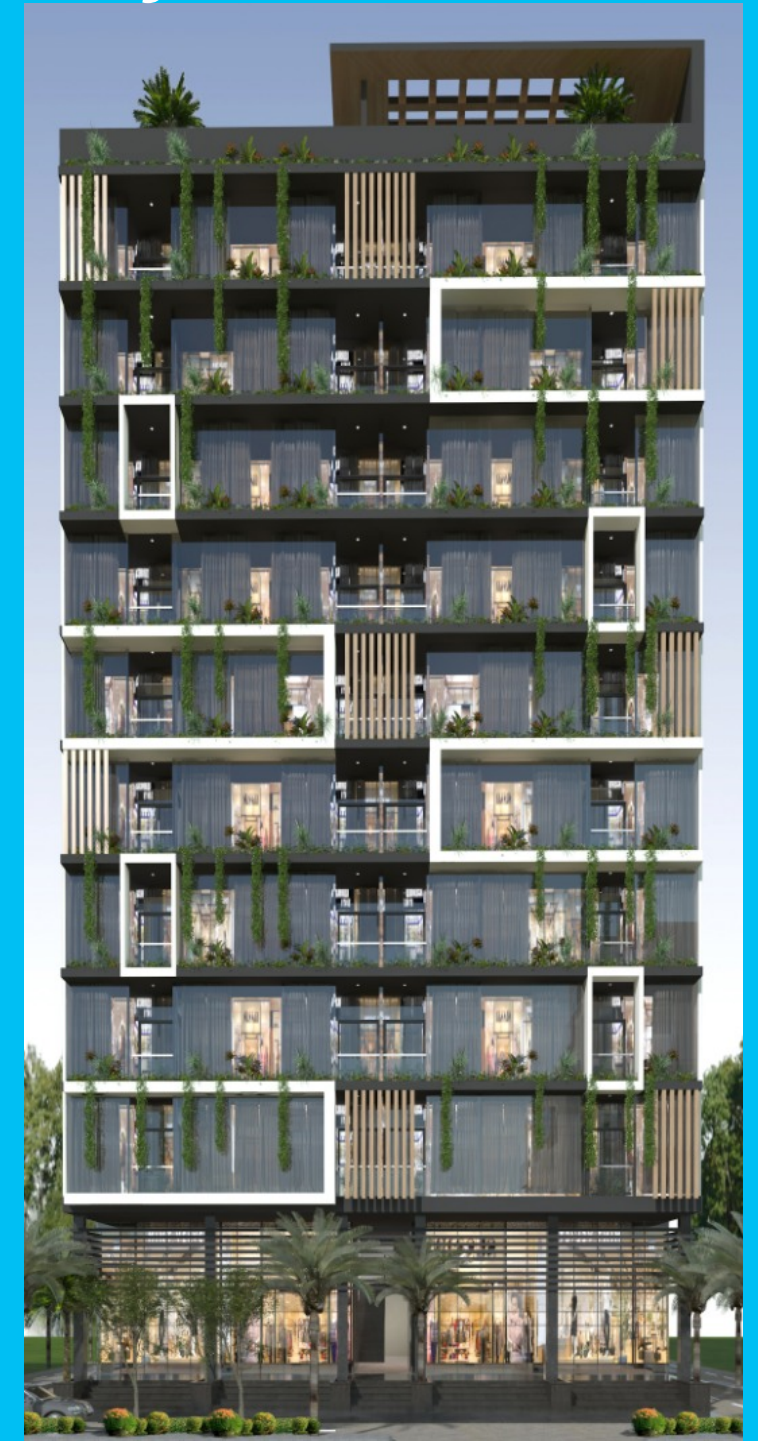
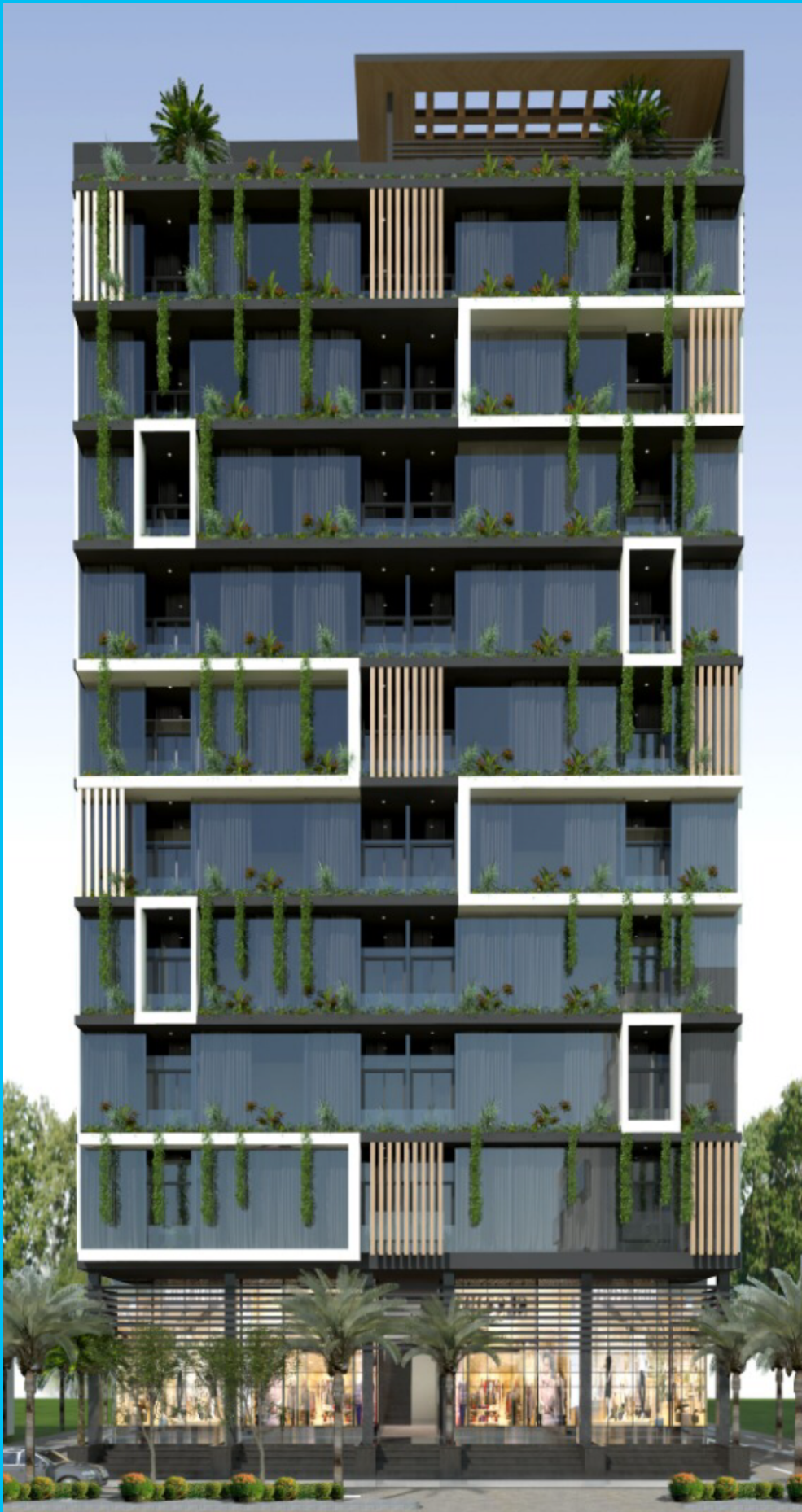




Vertical Gardening is a special kind of urban gardening suitable to small spaces, particularly for decorating the walls and roofs in various styles. This is an alternative method for gardening by expanding the scope of growing plants in a **vertical** space.

OPTION 2 with Roof Garden Facility

The Hanging Gardens of BTK are a testament to creativity in an otherwise rigid phenomenon. As an Architect / designer, we have taken the concept of a vertical garden, and literally turned it upside down to create an urban fabric that is visually challenging and thought provoking.





OPTION 2 with Roof Garden Facility

These green walls consist of several species of plants, which generate oxygen, absorb pollutants and help moderate the hum of constant traffic noise. The plants are designed to survive off an automated irrigation system that would be supplemented by rainwater. They'd be grown not in soil, but in a cloth of specific density that allows the root of a plant to interweave into the cloth.

Smart, Energy Efficient and Sustainable Components in the building.

Smart Space Planning

Water Efficiency

Environmentally Preferable Building Materials and Specifications

Waste Reduction

Toxics Reduction

Indoor Air Quality

Smart Growth and Sustainable Development

Optimize Space
Planning & Utilization



Enhance Energy
Efficiency



Improve Residents
Experience



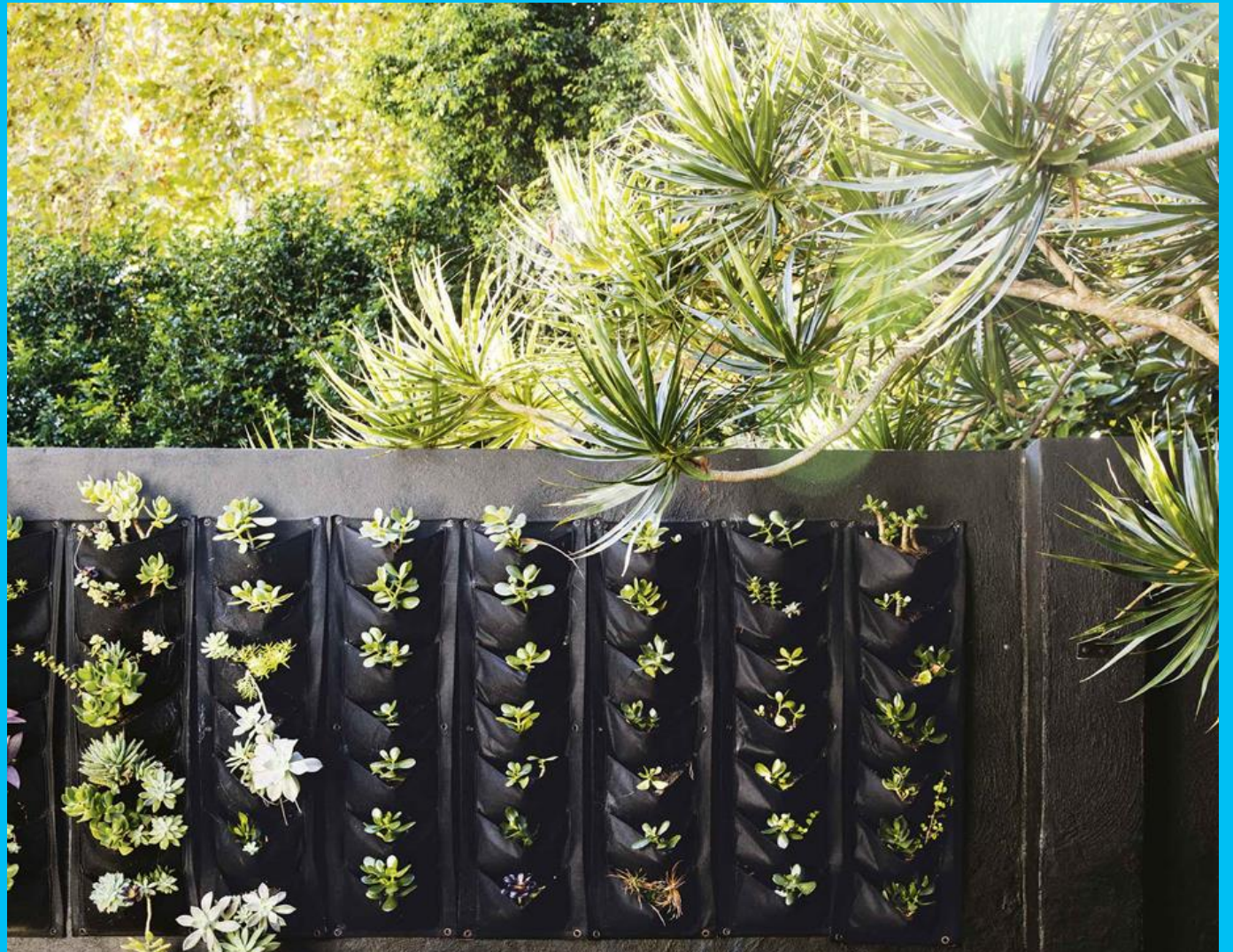
Streamline
Maintenance Effort



Vertical gardens soften dull walls and breathe life into concrete-heavy urban spaces. So which type of plants should you be looking to grow? Here, I will share 4 of the best plants for vertical gardens.

With the increase in apartment living, many people are looking for creative ideas for small space gardens and vertical gardens are fast becoming a popular choice. Grasses, succulents and small perennial shrubs thrive in contained spaces, as do herbs, ferns and many more plant species.

Take your greenery to new heights with these hardy plants.

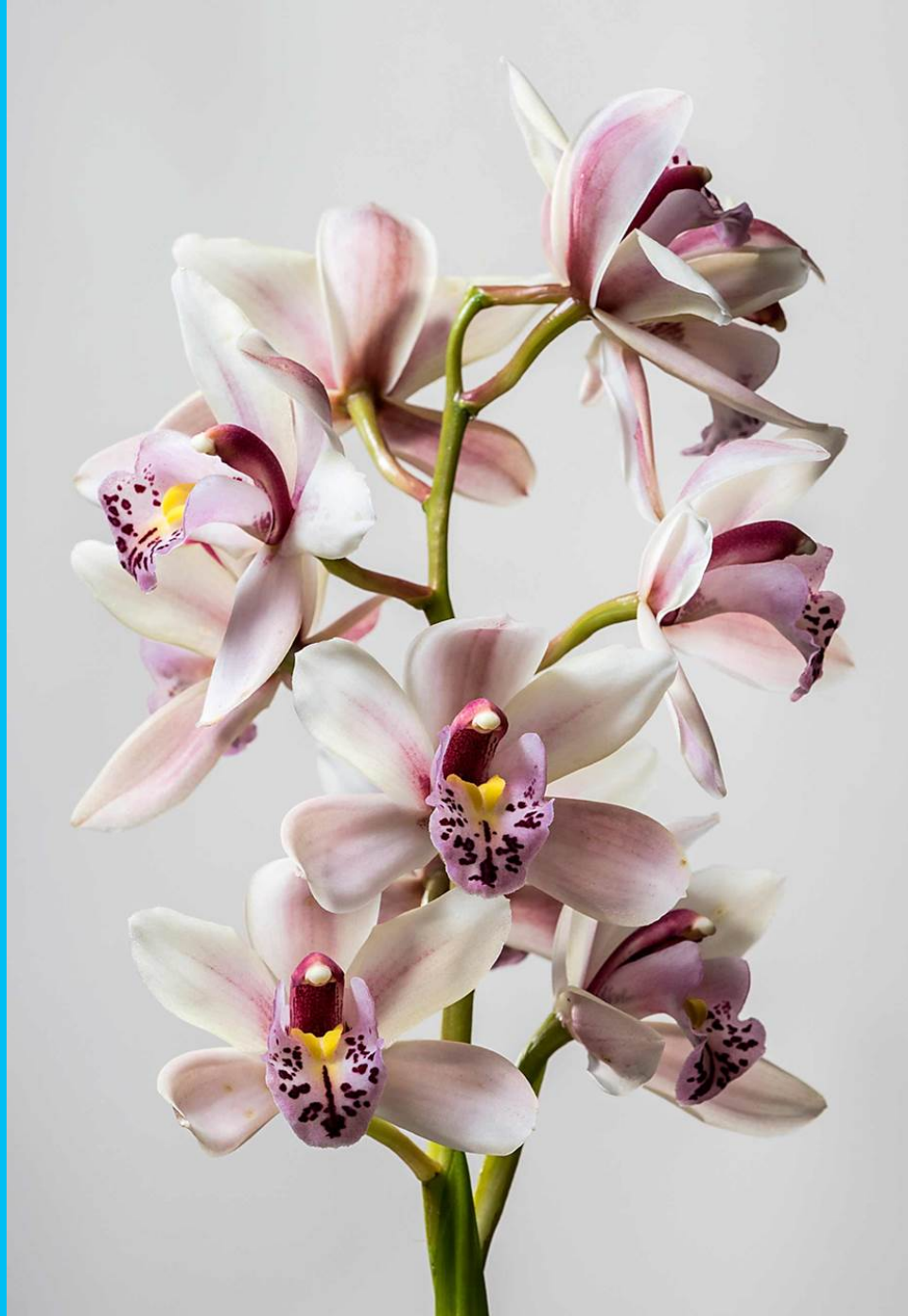




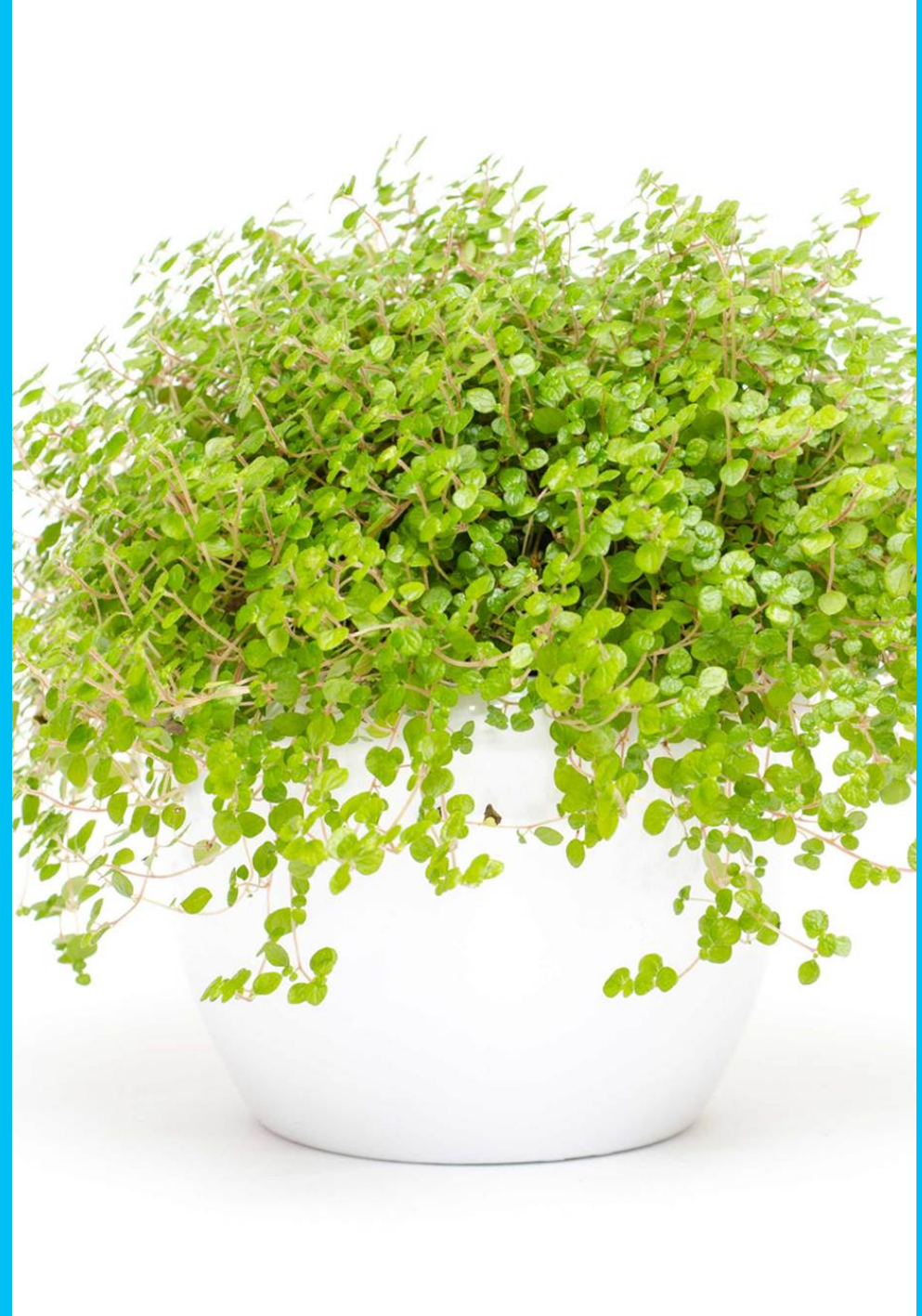
Ferns (*Adiantum*, *Asplenium*, *Davallia*, *Nephrolepis*, *Platycerium* and more) thrive in vertical gardens especially in moist shade. Some trail, others form rosettes. Hart's-tongue (*Asplenium scolopendrium*) spreads by wiry rhizomes. Mix and match contrasting fronds and plant shapes.



BROMELIADS (including *Aechmea*, *Billbergia*, *Guzmania* spp.) suit vertical gardens as they grow in little soil. Long-lasting, colourful flowers and patterned leaves add to their appeal.

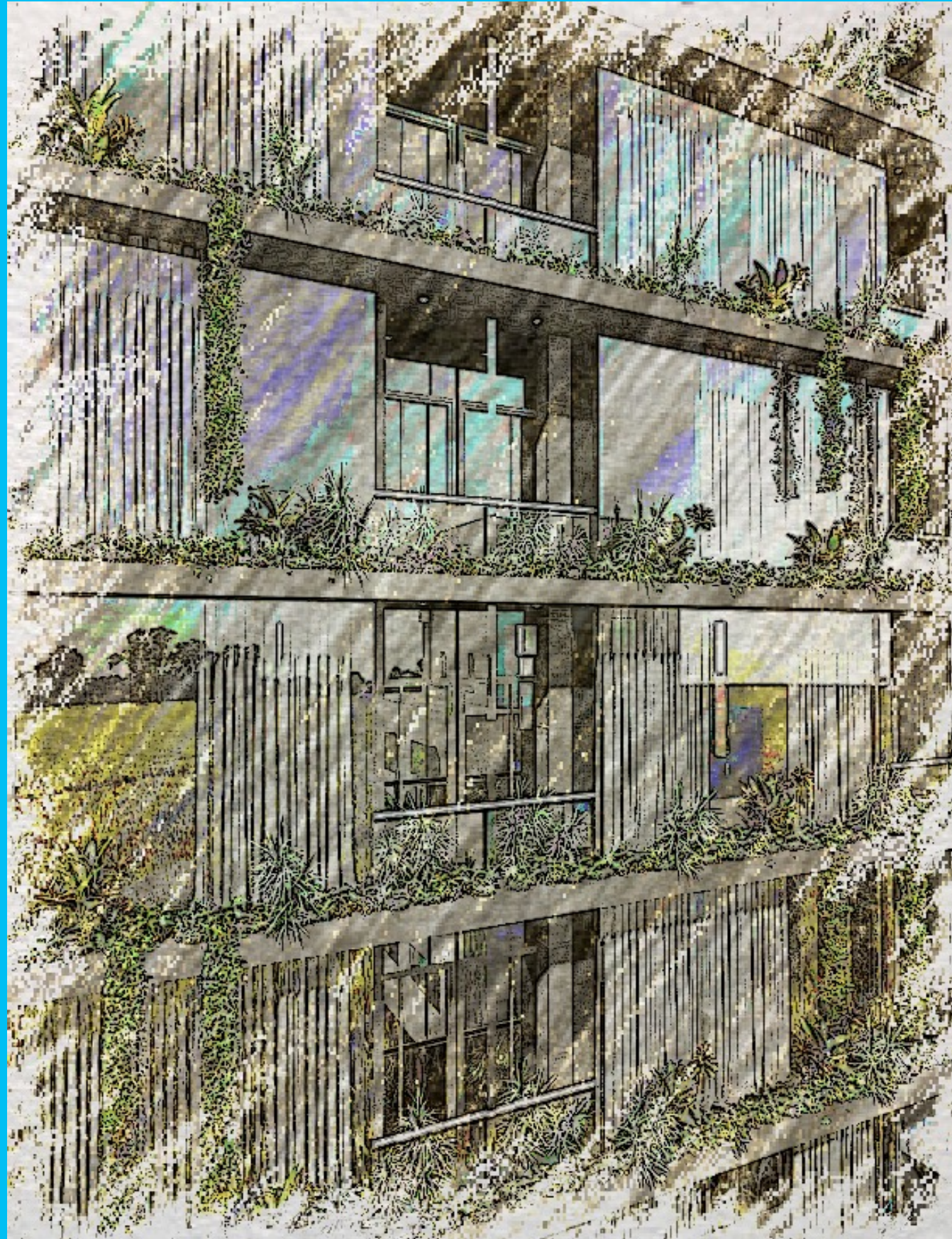


ORCHIDS, including Dendrobium and Oncidium spp. cascade with exotic flowers and strappy leaves making a lush statement in a vertical garden. Orchids are low-maintenance plants but perform best in bright light but not direct sunlight.

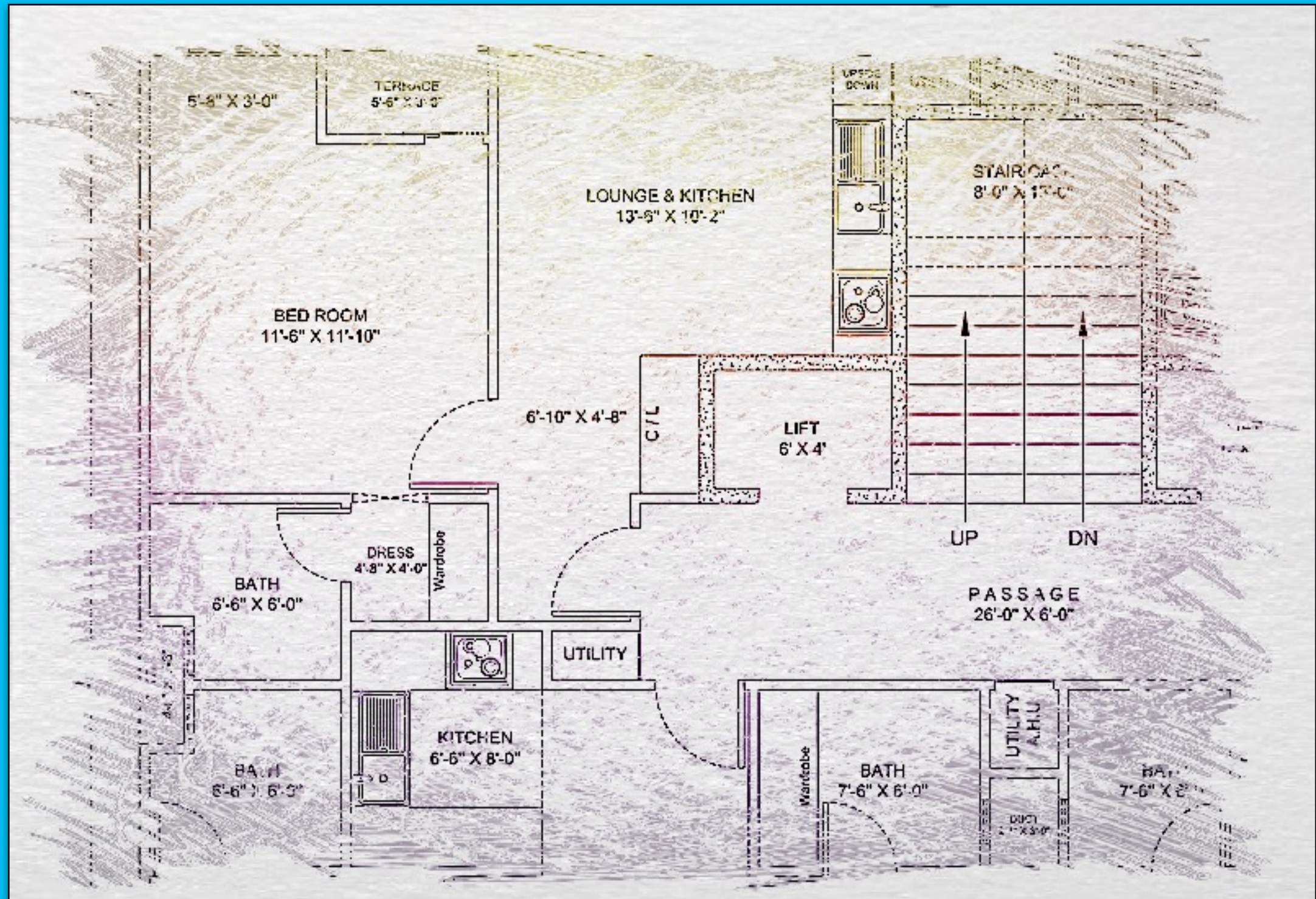


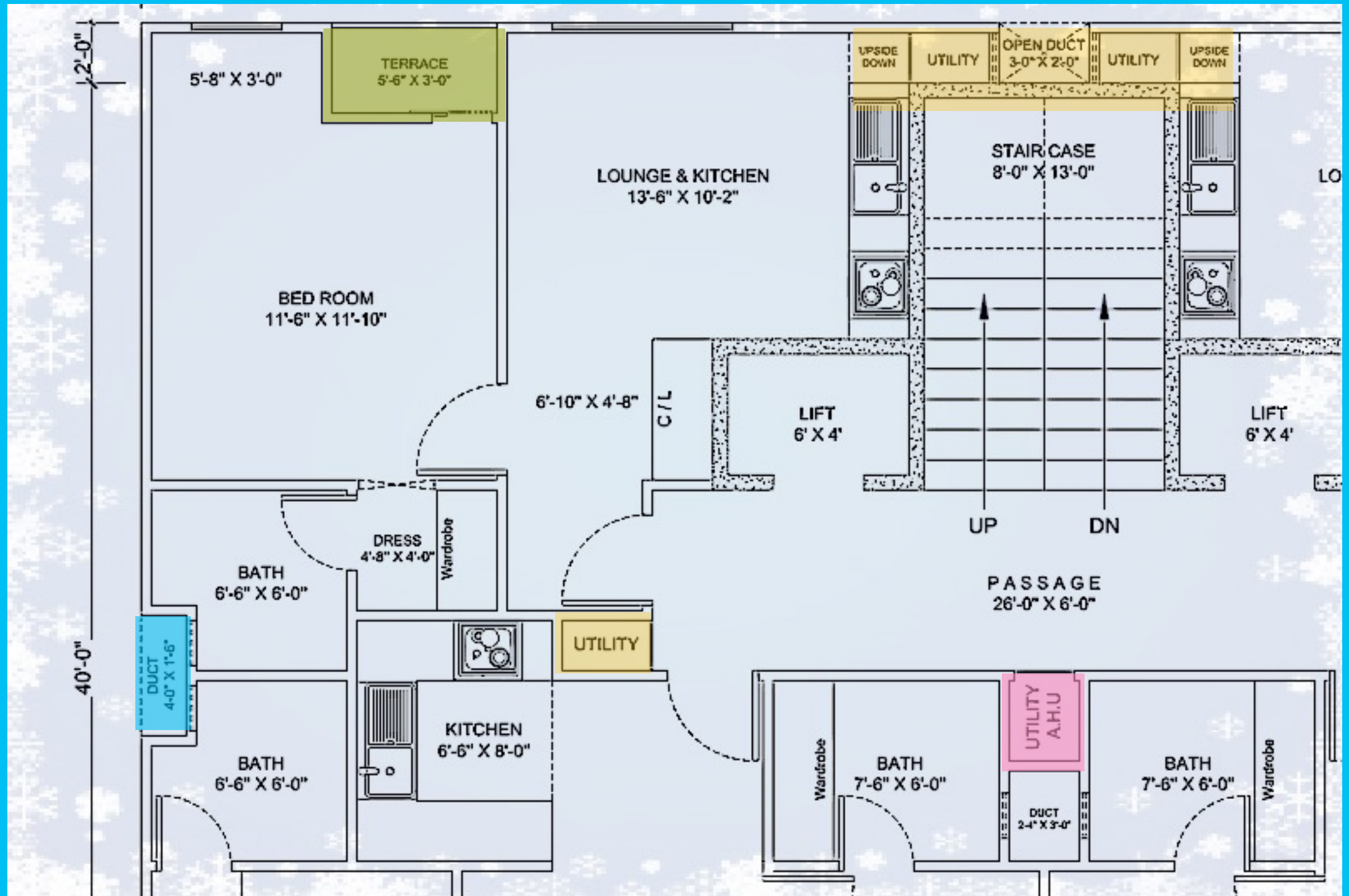
BABY'S TEARS or helxine (*Soleirolia soleirolii*) is a dainty, spreading mat-like plant with tiny, round, bright green leaves. It loves a moist spot with low light

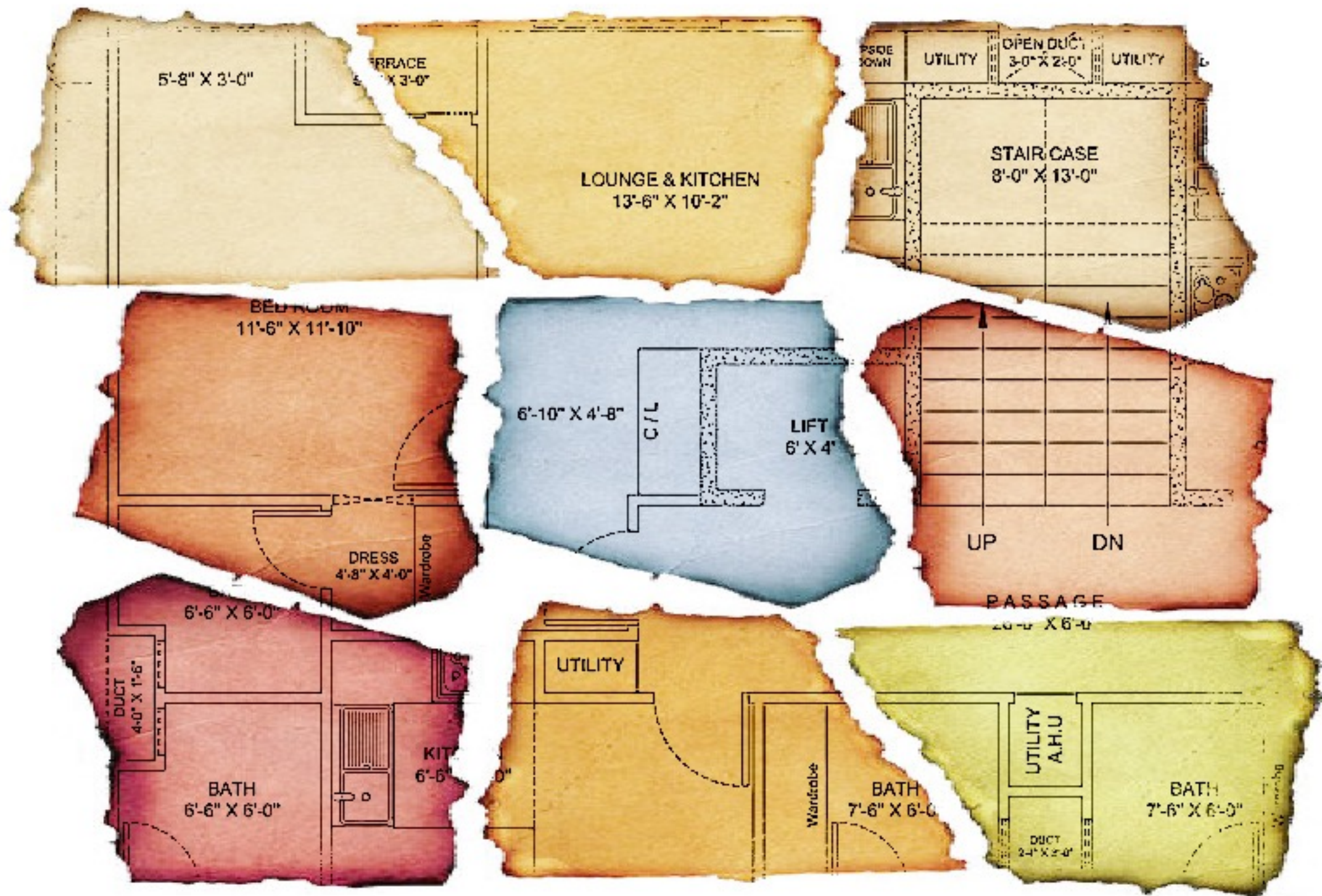




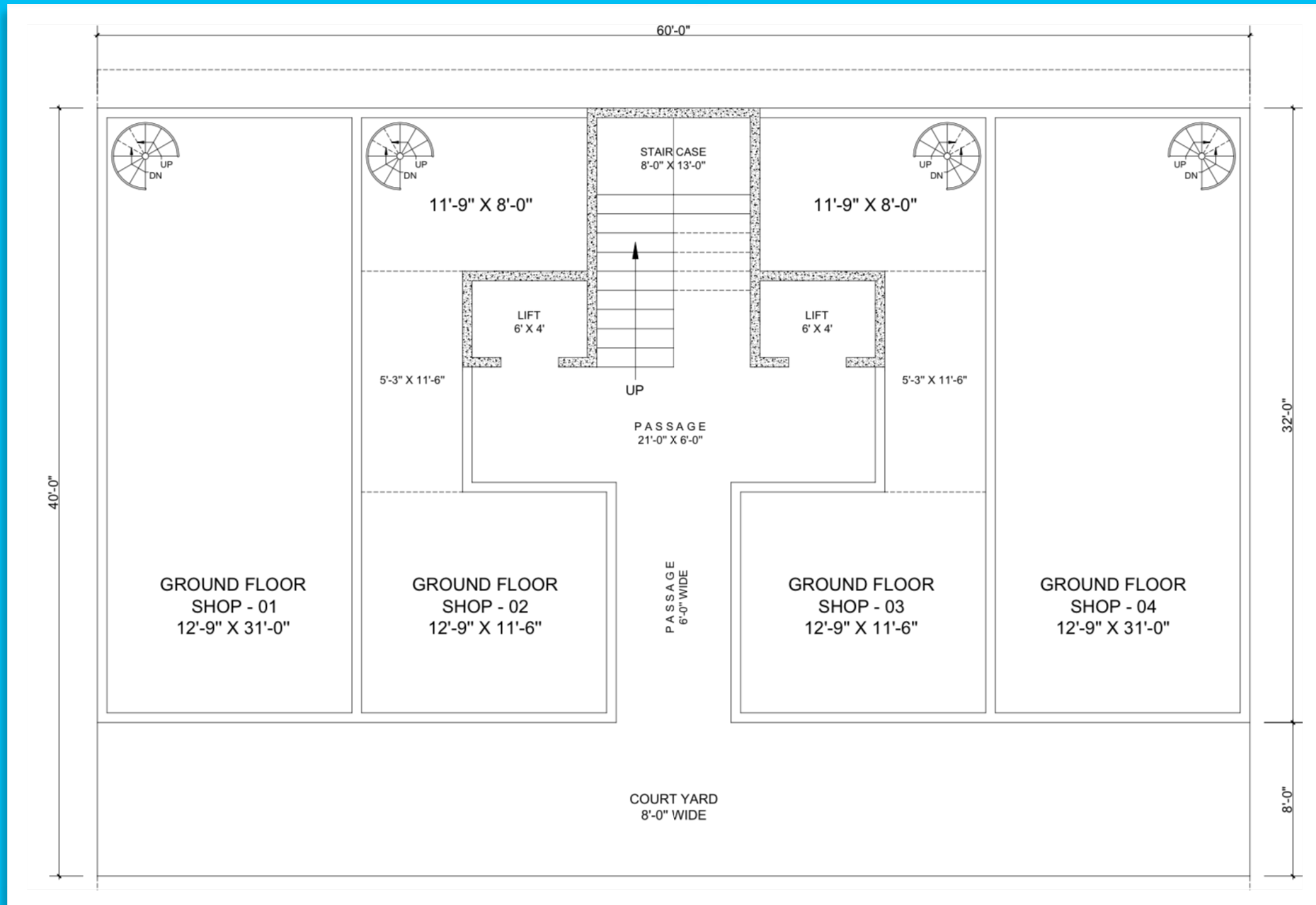




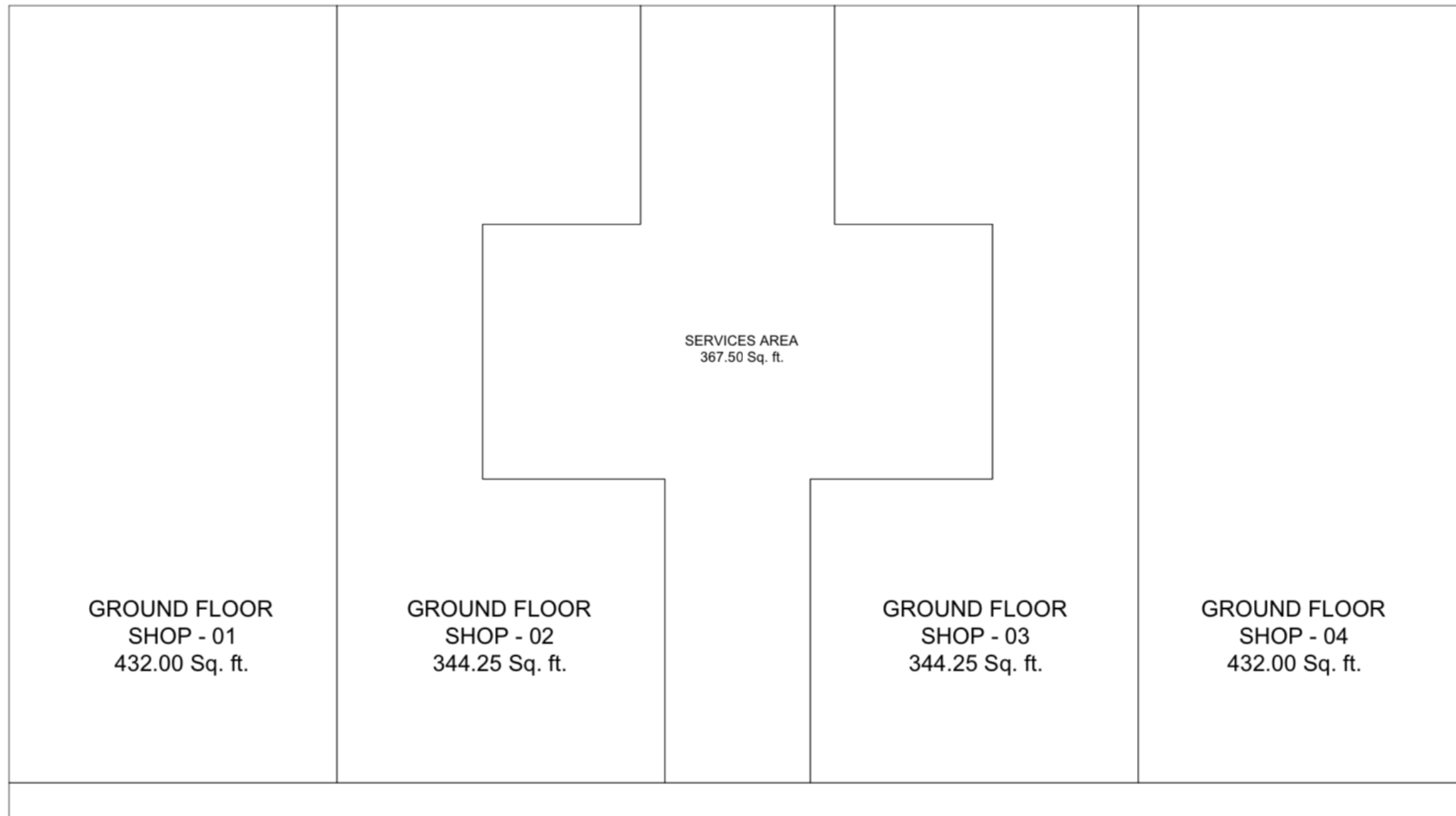




Ground Floor Plan

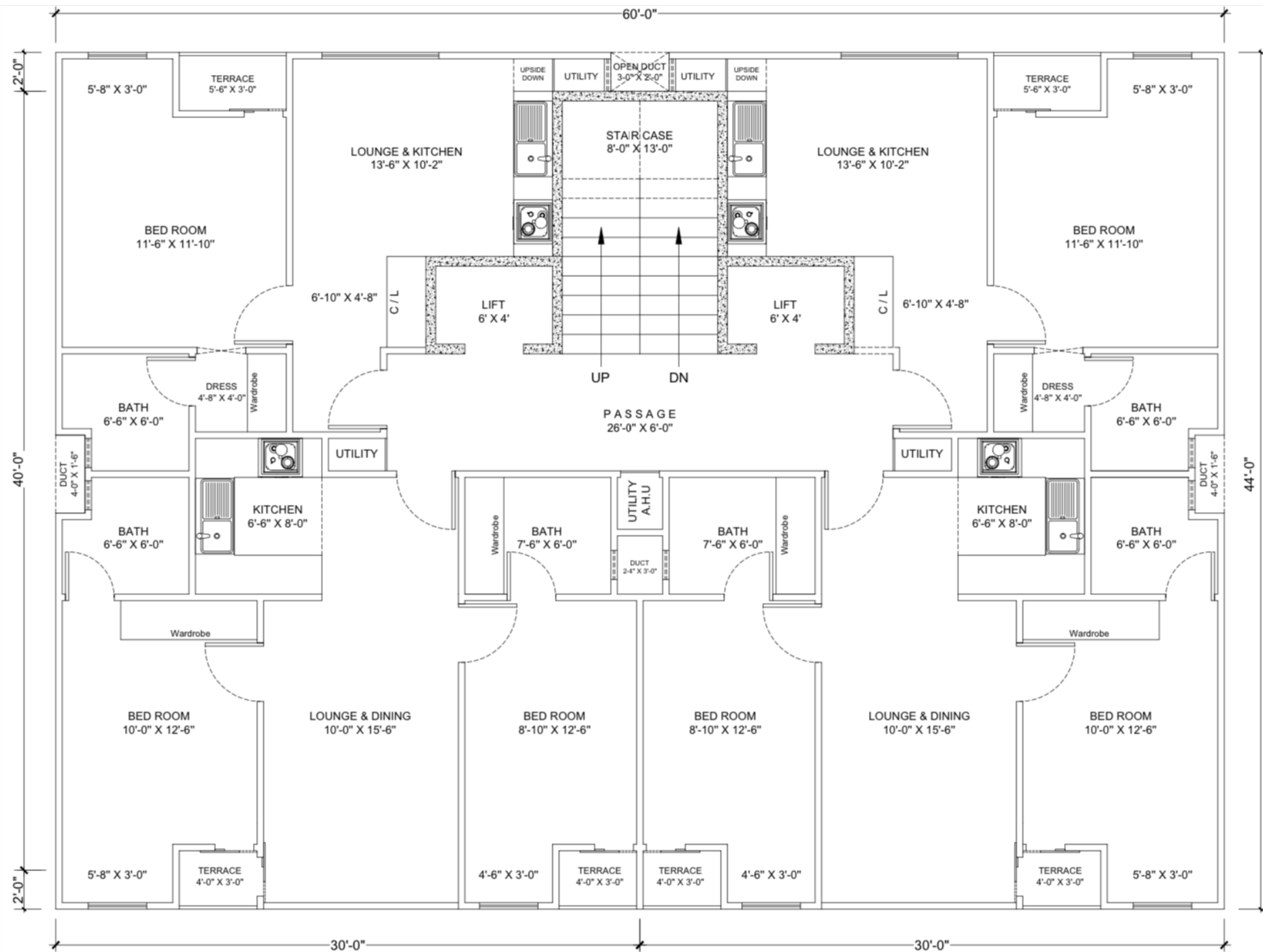


Ground Floor Plan

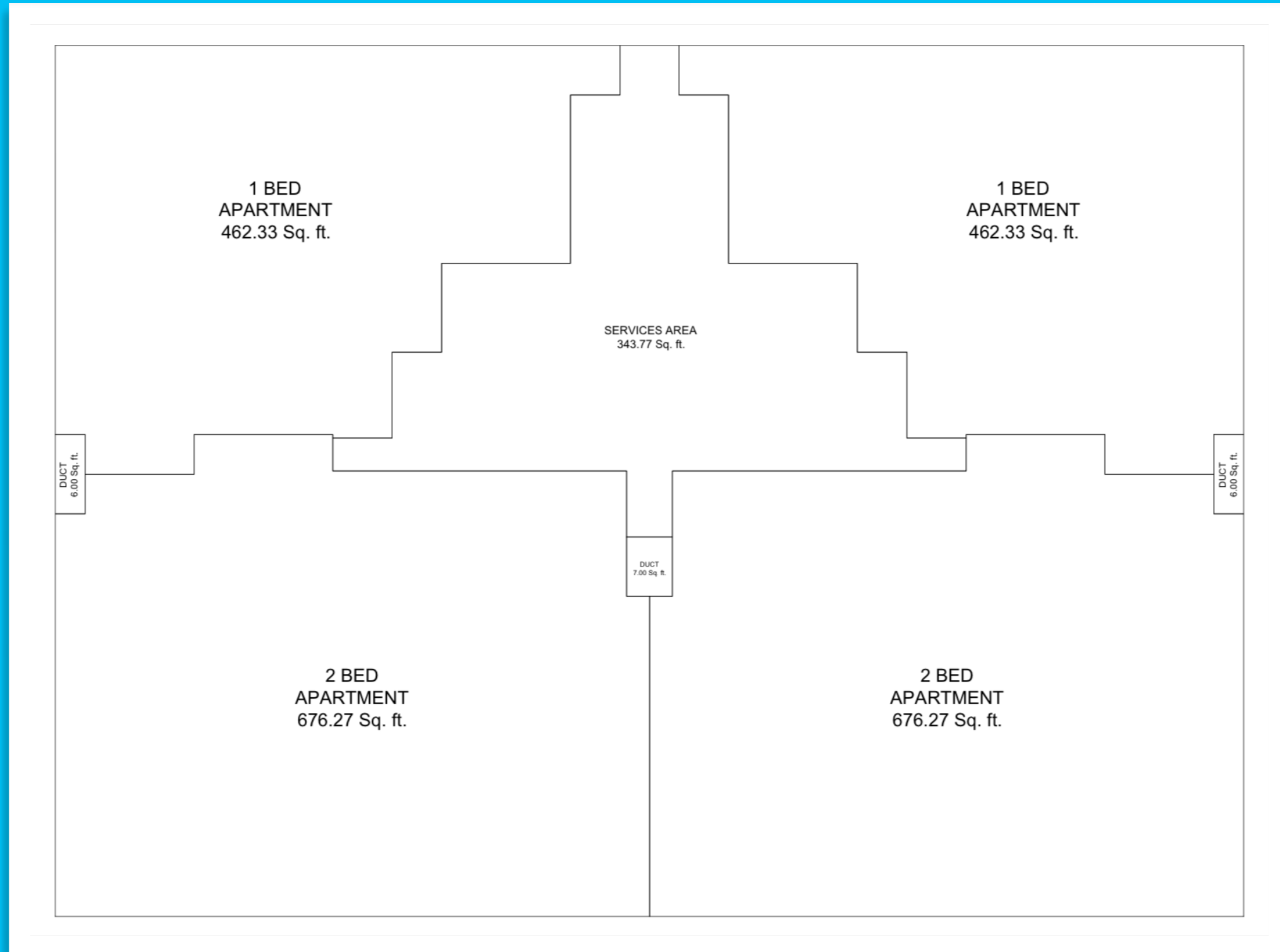


Ground Floor Plan SQFT Area

Typical Floor Plan



Typical Floor Plan



Typical Floor Plan SQFT Area

Sellable Area Analysis

S No	Description	Area SQFT	Total Area + Circulation
1	Shop 1	432	
2	Shop 2	344.25	
3	Shop 3	344.25	
4	Shop 4	432	
5	One Bedroom Apartment	462.33 + 86	548.33
6	Two Bedroom Apartment	676.27 + 86	762.27
7	Apartments Circulation Area	343.77	

