

Case Study



Some of Advanced technology used by them

- Automatic lights on/off by sunsets
- window Niches
- Light controlers
- inverter are hidden
- Floor drains are used
- Basin top kitchen counter & shoe rack tops are in same material
- Footlamps are under furnitures
- Heat sensors are used

Name Of Owner - Mr Khamitkar.
Location - Jijau Residency, Vijapur Road, Solapur, Maharashtra.
Building Typology - Residencial Flat.
Area - 2500 sq ft.
Floor Height - 11.5 ft. (Column size - 900mm)

Simless kitchen

- Duco paint on cabinets.
- Cabinets are murged with wall colour
- bicker baskets load carrying 15 to 20 kg
- German brand 80 kg for heavy material
- Hetich, hacker & haffle German brands
- crocery unit open hidden for less maintained
- Tendom 80 kg storage 1 m length wadro channels on bottom side
- Otg and oven oninon & other things are in 1 Kadapa will break vertically
- Hdhm for kitchen platform stone powder & fibre mixture compression force is high
- Stone granite base 50 mm vitrified slab
- Vitrified tile slab for dining 8 × 4
- Knobs are less unwanted handles doesn't need
- Baskets are provided to snack corner for for less moving utensils or container



Master bedroom

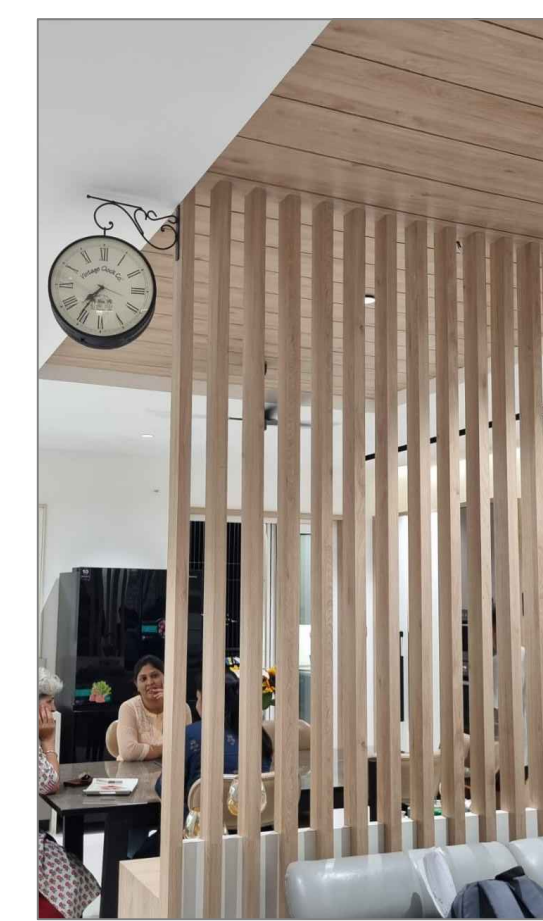
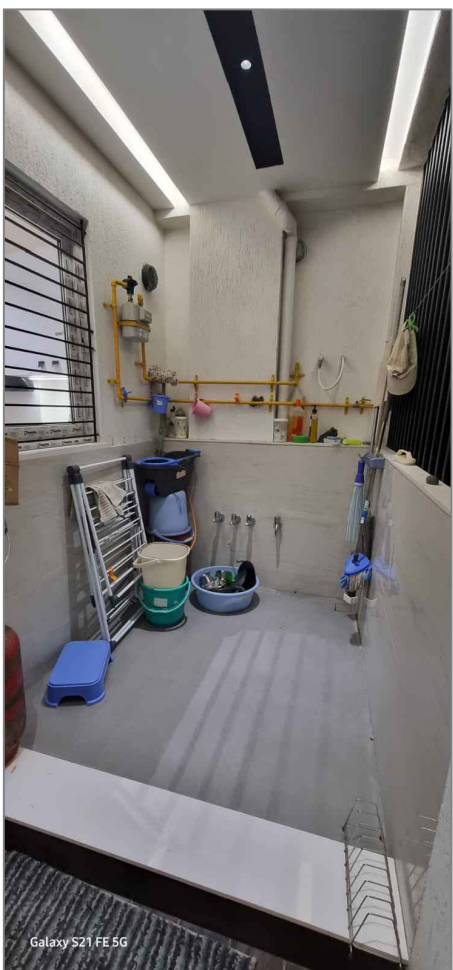
- South west master bedroom
- Plywood used as wall want cavity for privacy in wardrob
- Matt colours should be used for soothing effect
- South west lockers
- Bathroom wall is eliminated
- Niches should be created for planters or you're material 4 inch
- light effects for coziness
- Pir sensors for indirect light on off
- offsets are used for storage (Working on multiple screen will make ease in your work)

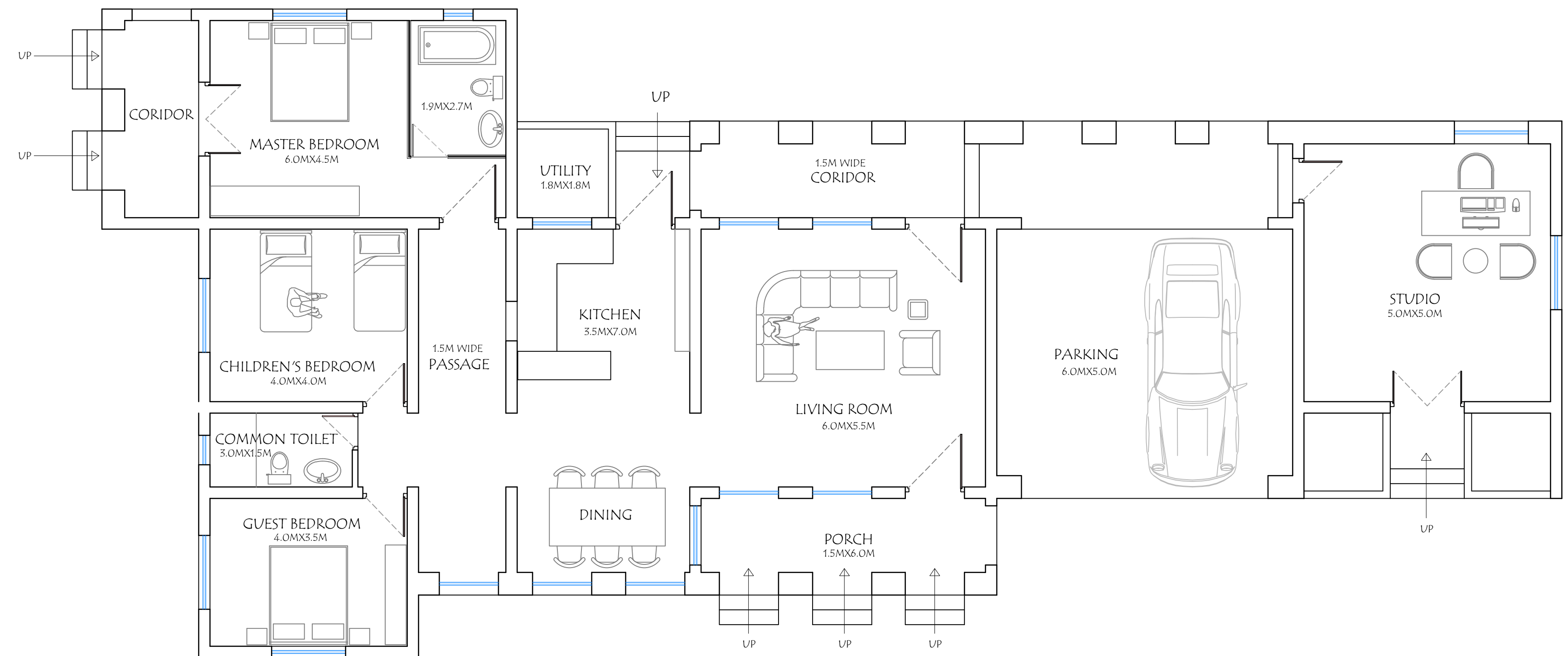
Living Room

- Dgu sound proof glass window
- 3 colours white pine wood , white colored Walls
- Il bedroom are in same design p
- tially Hide kitchen counter with fins

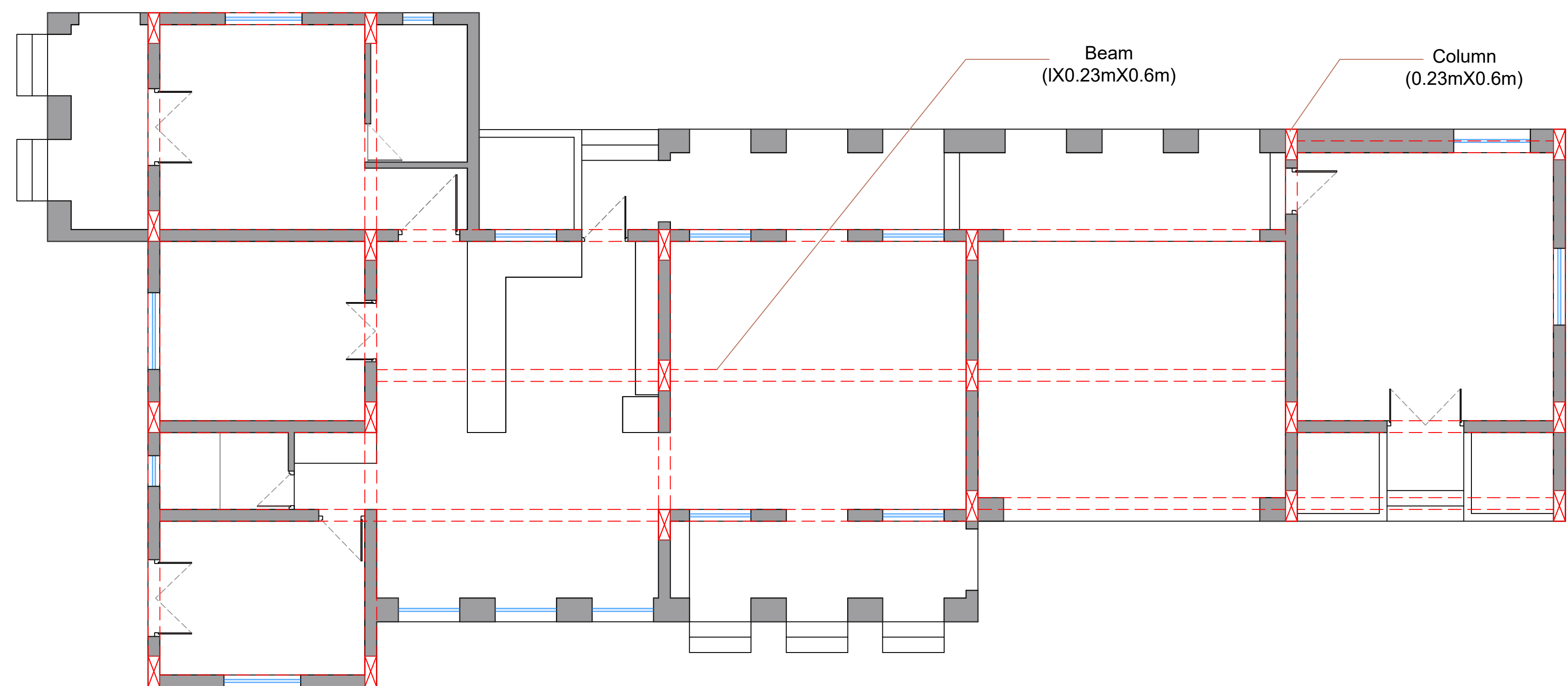
Children bedroom

- Girls room with different colour wall with bidding
- Wooden blinds are used instead of window Niches with 3 watt lamps will save energy curtains with neutral material
- Backpaint glasses are used for wardrob reflection is less even if wardrob lights are on
- Chipon boards are used for lights
- Play of lights should be used picture lamps
- Storage is in matt colour for effect of illusion
- Beam soffets should be maintain or match in whole room or base should be same of beam
- 36 mm edges of wardrob
- 17 inches height of bed is std..(it is comfortable for all edges specially for pregnant women foam plays important role it's softness is also matters) For sliding Wardrob width 600 mm (3 inches are for tracks)
- Adification - increase important of particular material - it plays important role
- Luminare are hidden for comfort of eyes
- Indirect lighting on all for sides of slab or pop





FLOOR PLAN



Structural Grid

Location - Solapur, Maharashtra, India
Building Type - Residential Building
User - Artist (Fashion Designer)
Number of family member - 4+1
Age - 10 - 50 years

Theme - Royal (Vintage)



Designing and decorating a home in a vintage style generally means incorporating furnishings, accessories and colour palettes from an earlier period. An eclectic mix of old styles and new forms, or new forms with old materials and finishes. Any era can be tapped into here, with the 50s, 60s and 70s the most common. It embraces a kaleidoscope of contrasting design features, colours, shapes and form.

History of vintage interior

So the history of vintage style design can be attributed to the years between the 40s and 50s. Vintage design for interiors can be considered a nostalgic style with old elements. The most crucial feature of this interior design style is that it should be reminiscent of the past.



Using wooden floors, antique furniture and lighting fixtures with the colour palette that is modern creates a fusion of a modern and vintage dining room design look. You can achieve a similar effect while using modern furniture with vintage wallpapers as long as they are cohesive. They also represent a timeless sense of style that transcends trends

Wood has incredible insulating capabilities. Thus, incorporating wood in home interiors will ensure rapid cooling and heating of the space. It also absorbs noise (making the interiors conducive) and atmospheric carbon, making the space much healthier.

Sheet No. -		Sign/Stamp -	Date - 25/11/23	Name - Vaishnavi Gunvant Karbhari	Roll No.
01	Residence At Solapur		Scale - 1: 75	Subject - Interior Designing	08
			B. Arch	College Name - SSSM's College Of Architecture, Solapur.	Sem V
			Third Year		



Chandelier

They have been an iconic fixture in grand halls and luxurious homes for centuries. Their intricate designs and luminous glow have symbolized wealth, power, and elegance



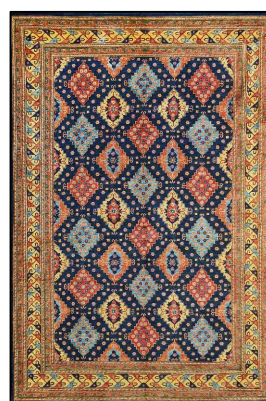
Semi Royal Sofa

Designer sofas often feature innovative designs, intricate detailing, and customized options tailored to individual preferences.



Carpet

Designer Carpets easily shows the royalty and the creativity in fashion as well as antique trends.



Sofa Side Table

Carved Wooden Side tables have always been a beauty to a royal sofa.



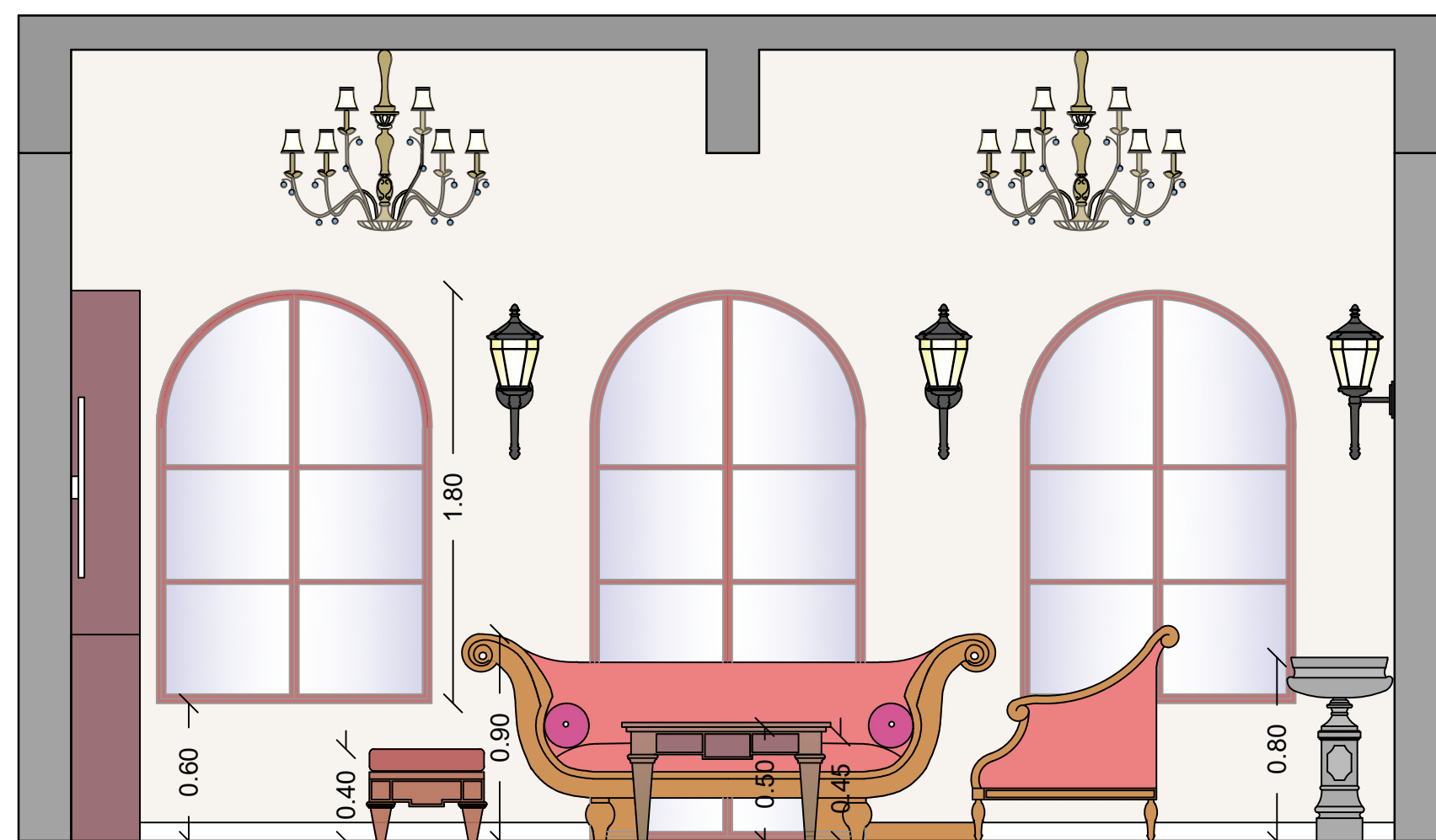
Ceiling Design

POP designed carving on the ceiling to hang the chandelier

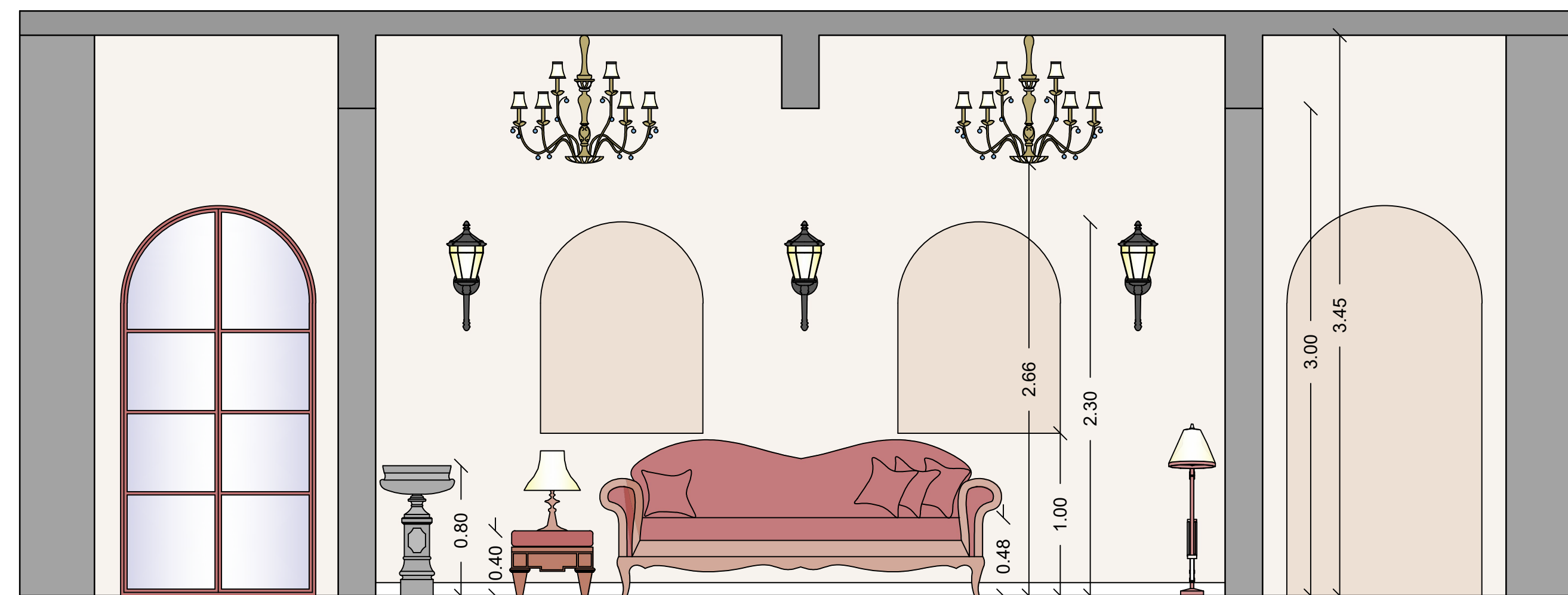


Nameplate

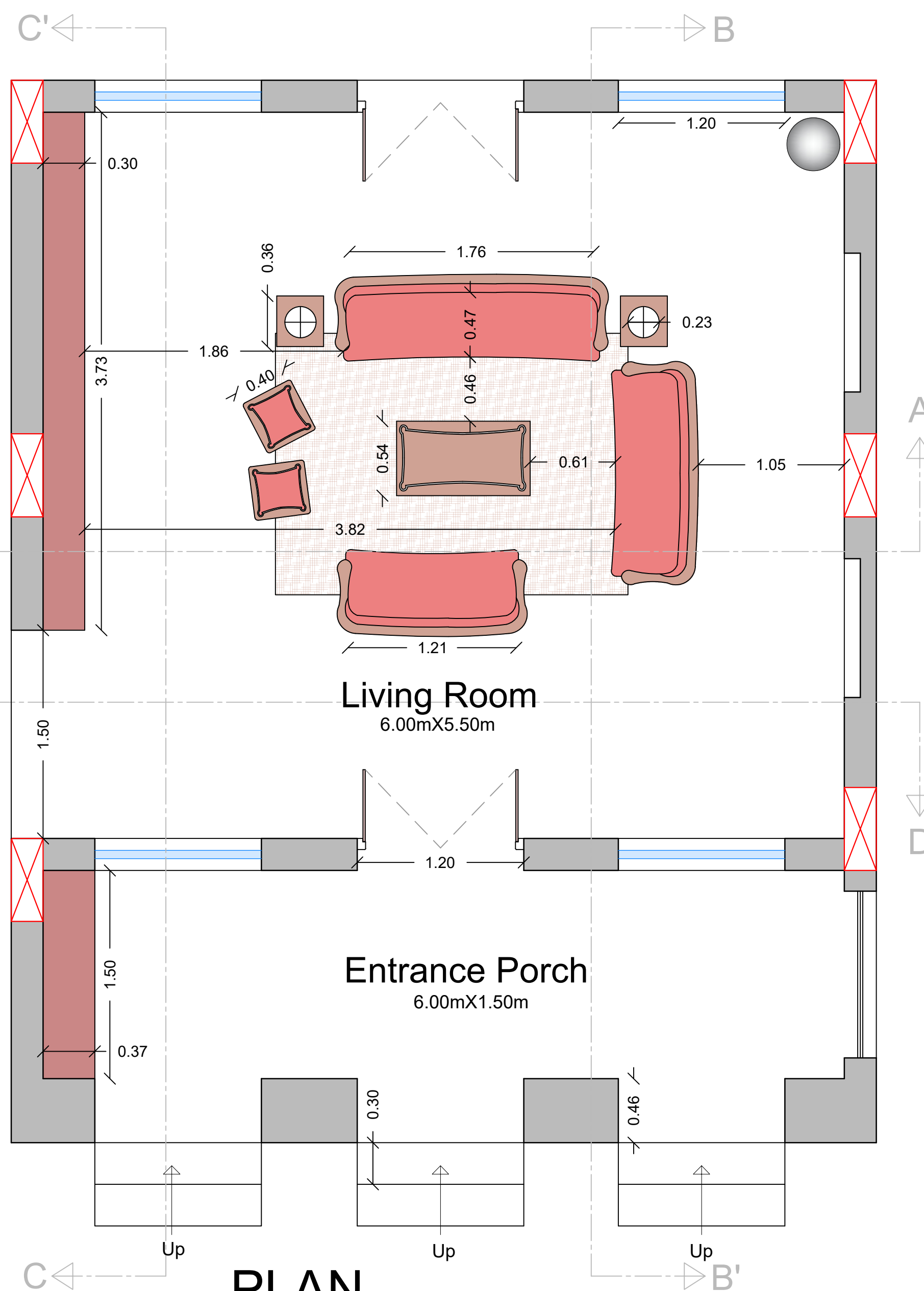
Marathi nameplate on the natural wood using golden letters really shows off the royalty



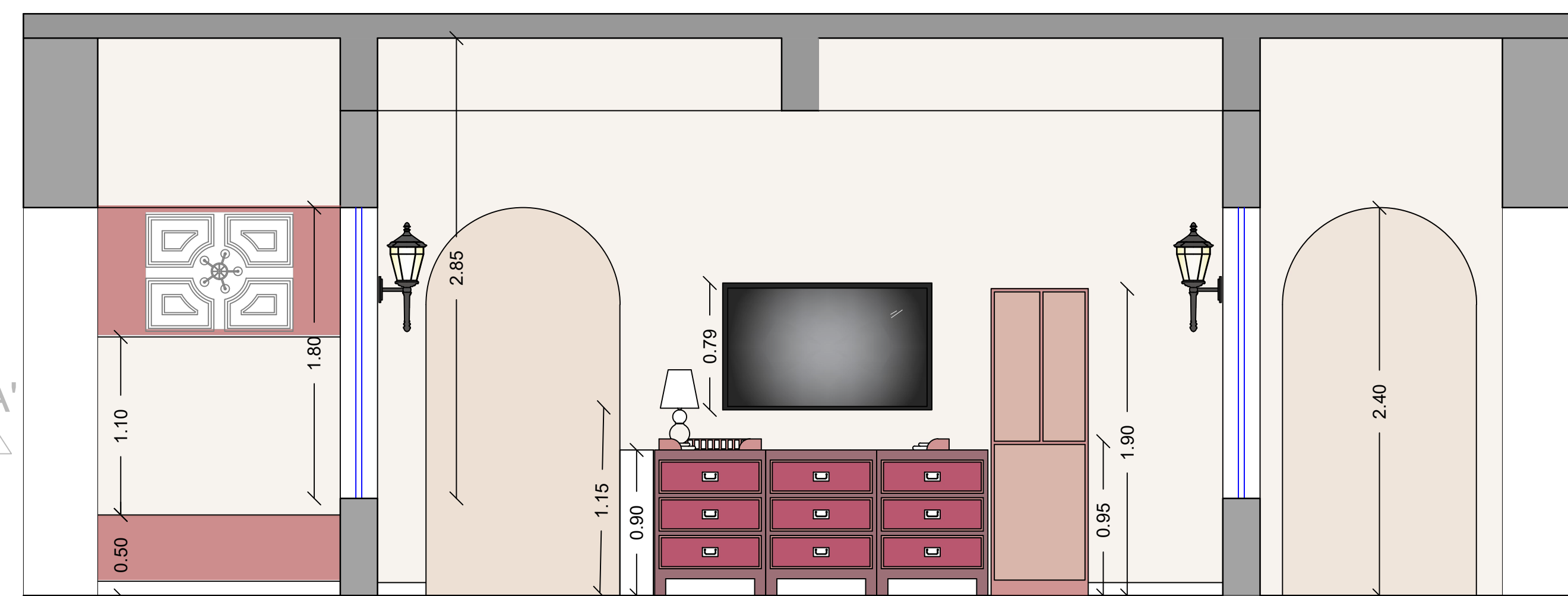
Section AA'



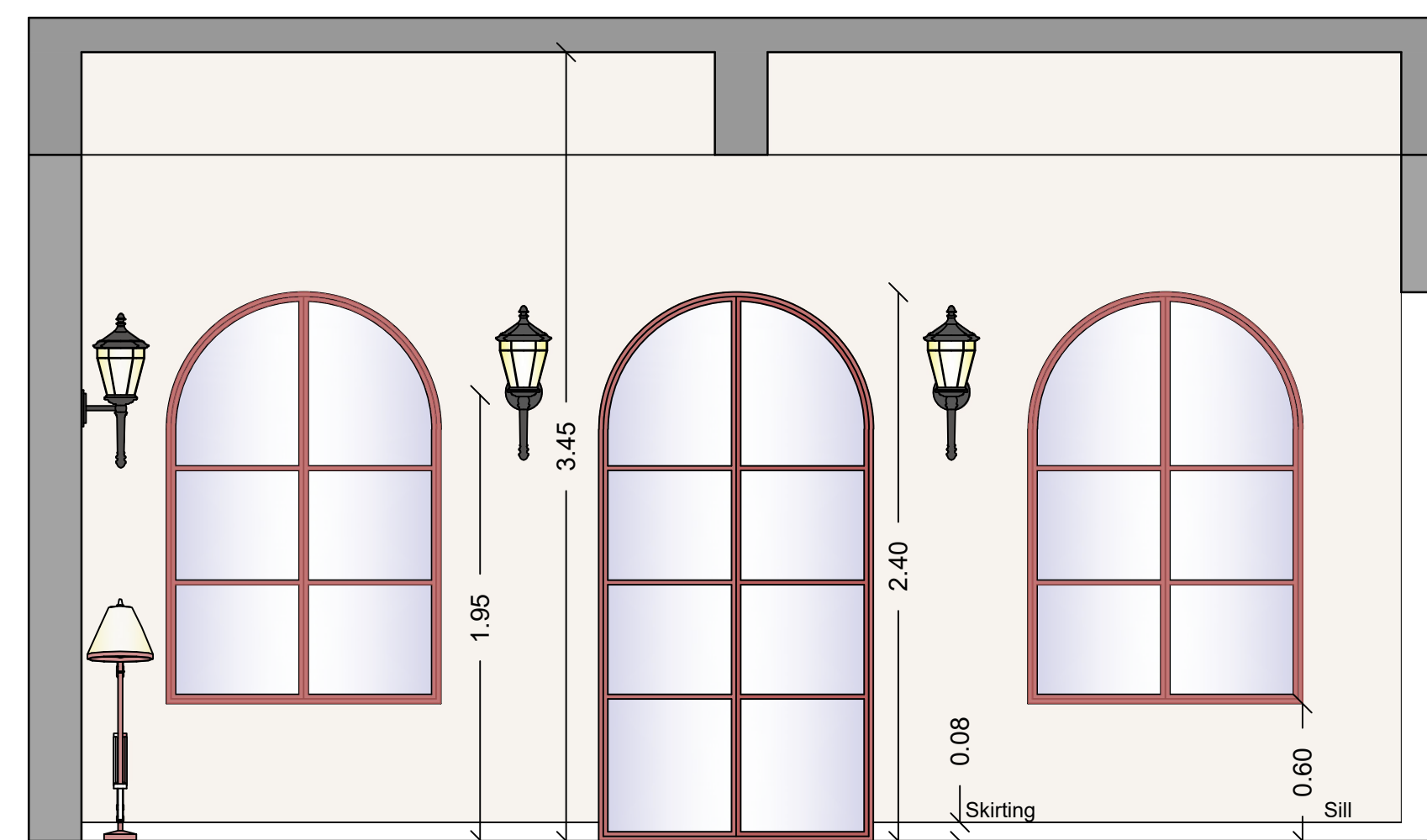
Section BB'



PLAN



Section CC'



Section DD'



Wall Mounted Lamps

These increase the beauty of a wall without really decorating it also provides both ambient light and task light while adding a decorative element to the home decor



Antique TV unit

They provide a functional and stylish platform for your television. With a range of styles, materials and designs



Wall Mounted/ floor Fan

When the Zumber generally takes place of the ceiling fan, wall mounted fan actually useful as well as aesthetic.



Arched Door wooden frame



Curtain

Arch shaped curtain hanging angle, so that holds the shape looking aesthetic



Floor lamp

These are the kind of lamps that can never go off the trend and are helpful, lights up the corners



Curtain Fabric
Dense floral embroidery voile, luxury custom sheer curtains for living room, light beige lace tulle curtains.



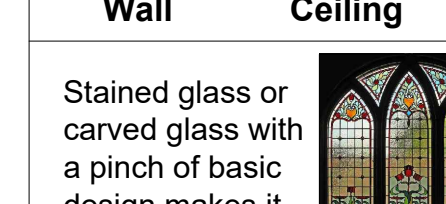
Sofa Fabric
Red Panne Velvet is a plush, two way stretch fabric that has a luxurious look and feel.



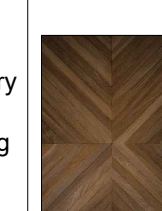
Copper pinned Skirting
It obviously adds a glance of royalty and matches the theme.



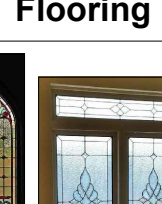
Lamp Colour
Matte Dark Brown colour or matte black



Glass
Stained glass or carved glass with a pinch of basic design makes it aesthetic.



Sagwan wood
Matte Dark Brown Colour



Sheet No. -

04

Living Room

Sign/Stamp -

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Name - Vaishnavi Gunvant Karbhari

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Ceiling Fan with light

This kind of lamp helps with illumination under the fan



Dining Table

Wooden dining table with off white cushion blends with the theme and the rectangular chair skim with the curvy backrest represents the mixture of vintage and modern



Refrigerator

To maintain the Vintage theme built in refrigerator can be used with the wooden door panel



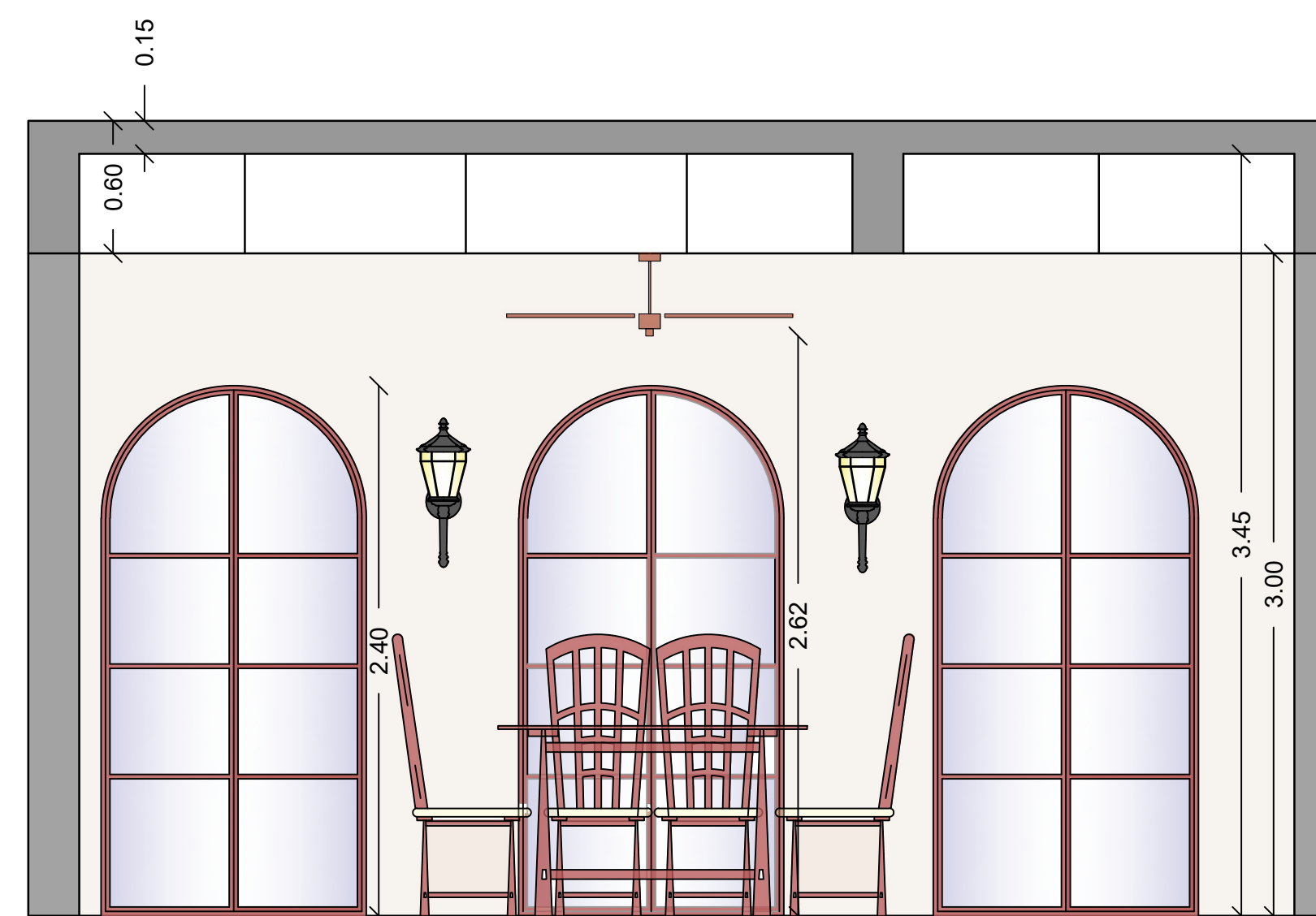
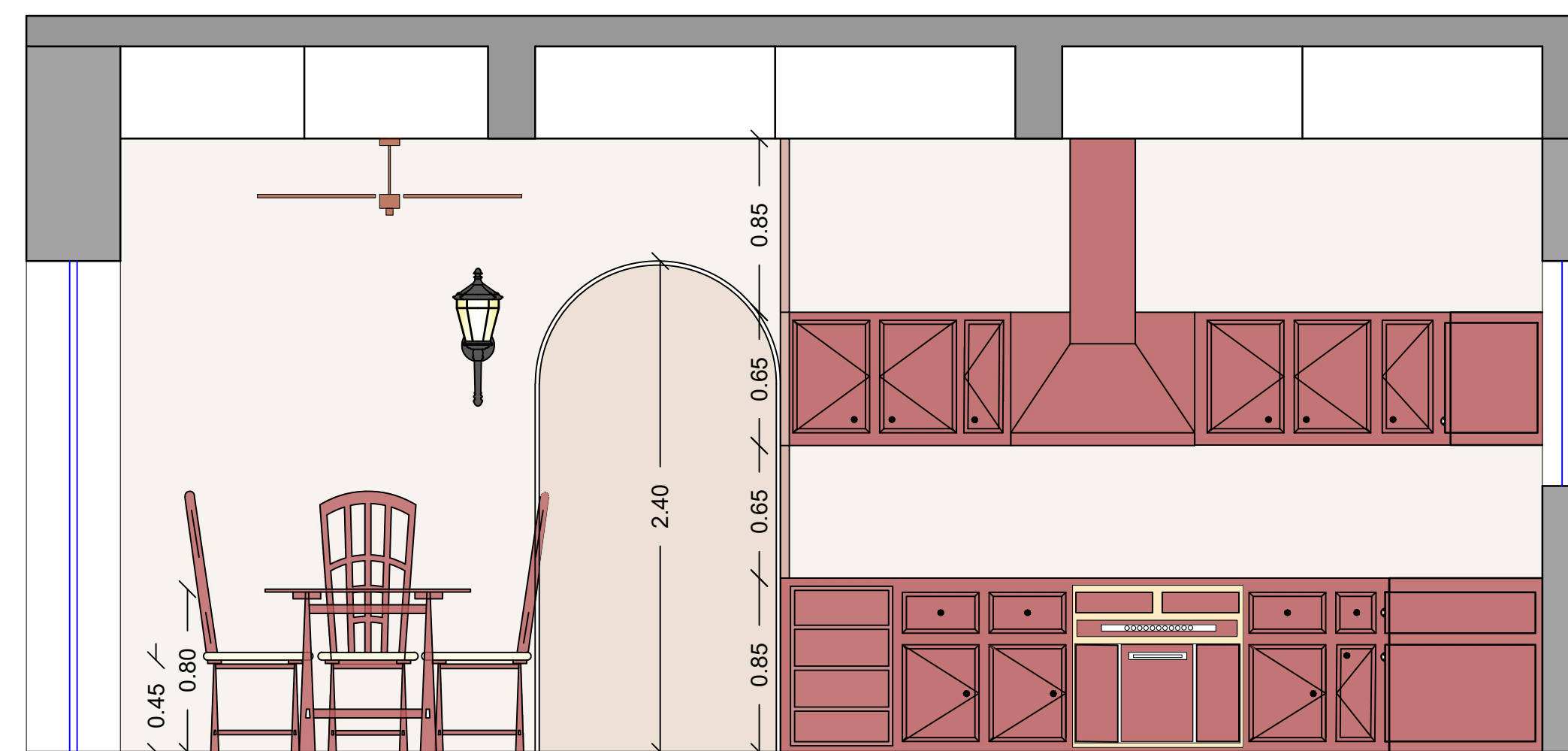
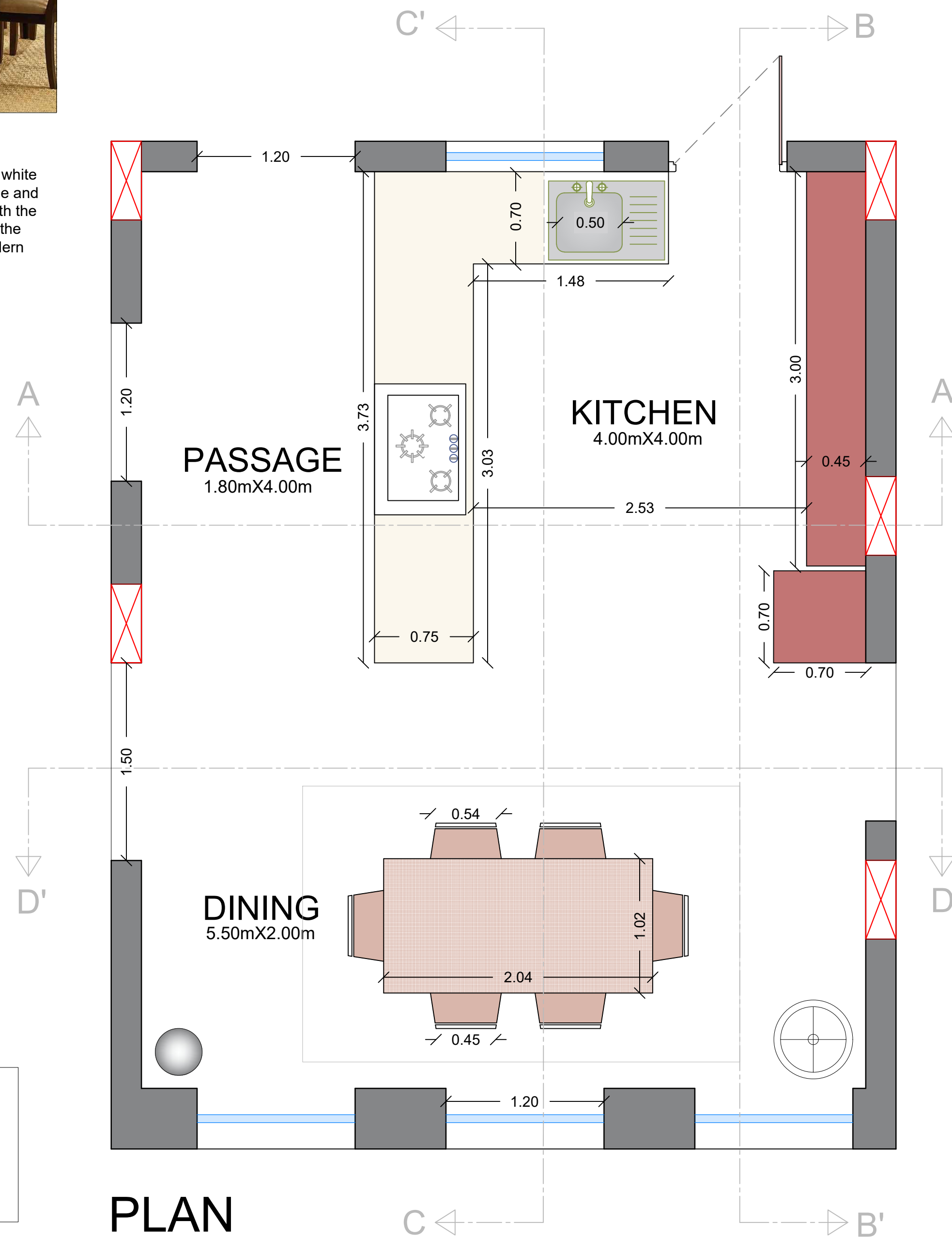
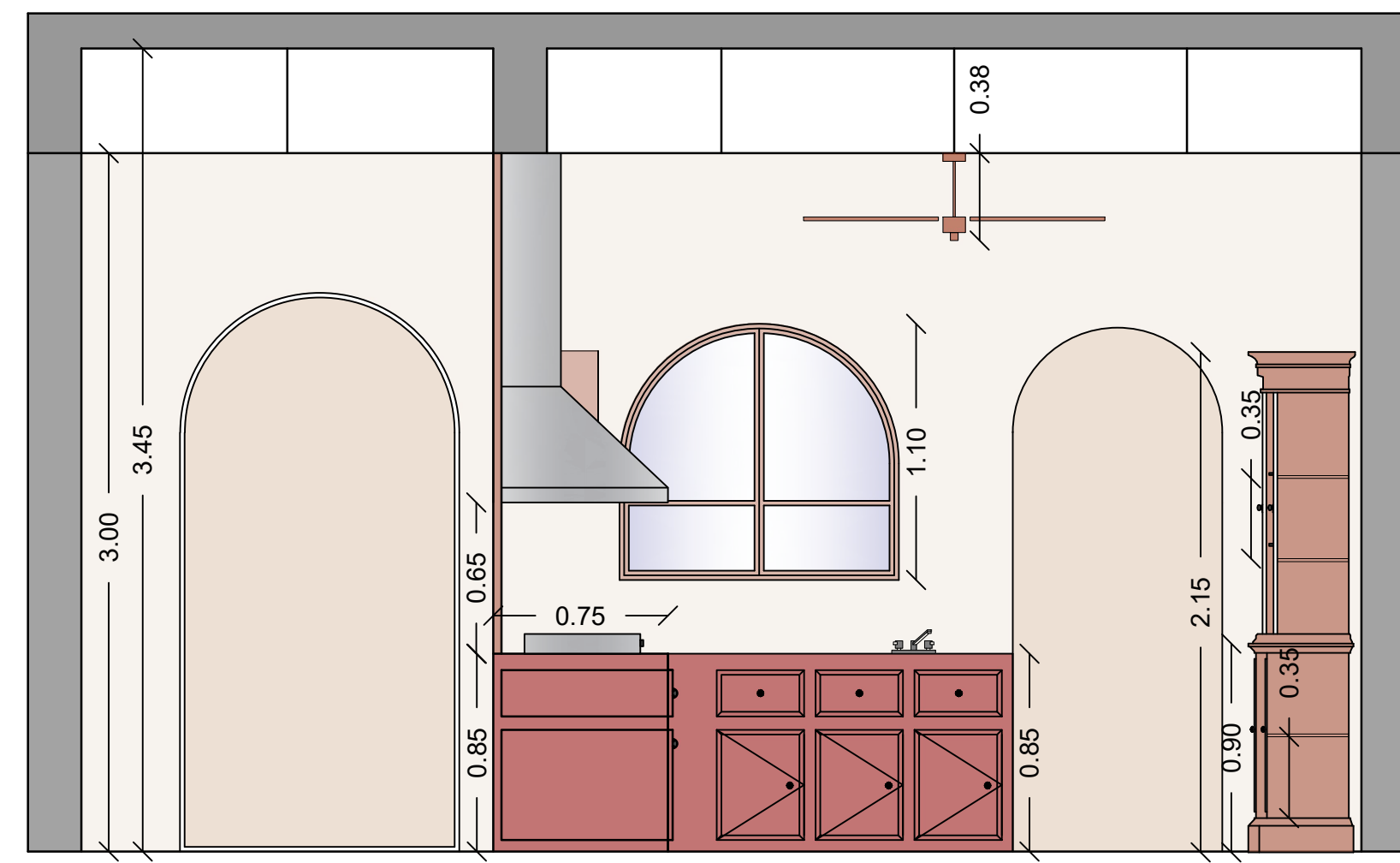
Storage

Cupboards can be used with partitons at different level having storage at the door as well



Kitchen

Vintage Modular Kitchen is referred here. The vintage cupboards provided in the kitchen which can be a fit for an oven as well as a griller



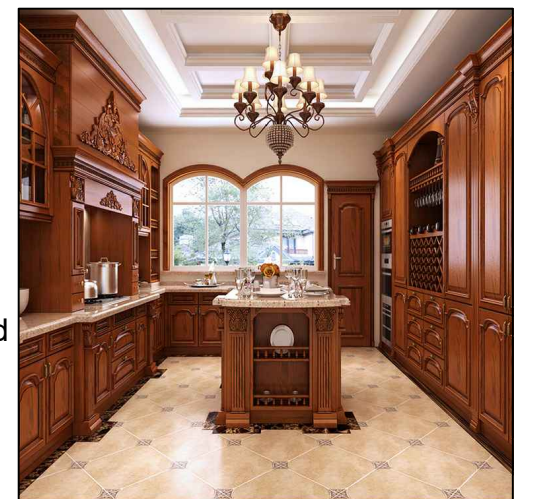
Kitchen Cupboards

Wooden and glass cupboards, showing off the cutlery and the dinner sets, gives the vintage look flows with a rustic theme



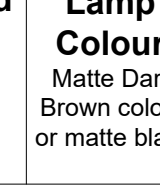
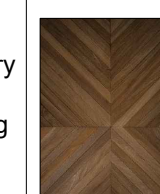
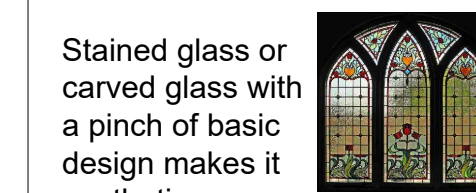
**Polished Wooden
Cabinets (Oak Brown)**

The Wooden Cabinets melts with the royal theme and give an aesthetic look shows off the royalty, the carved door openings, shaped metal handles provides the comfort to use



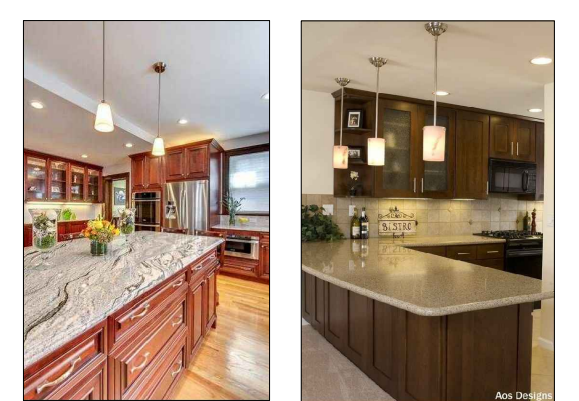
Wooden Chimney

The Wooden Chimney melts with the royal theme and give an asthetic look

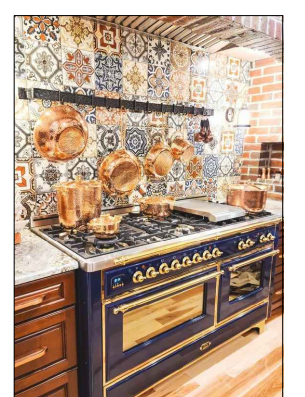


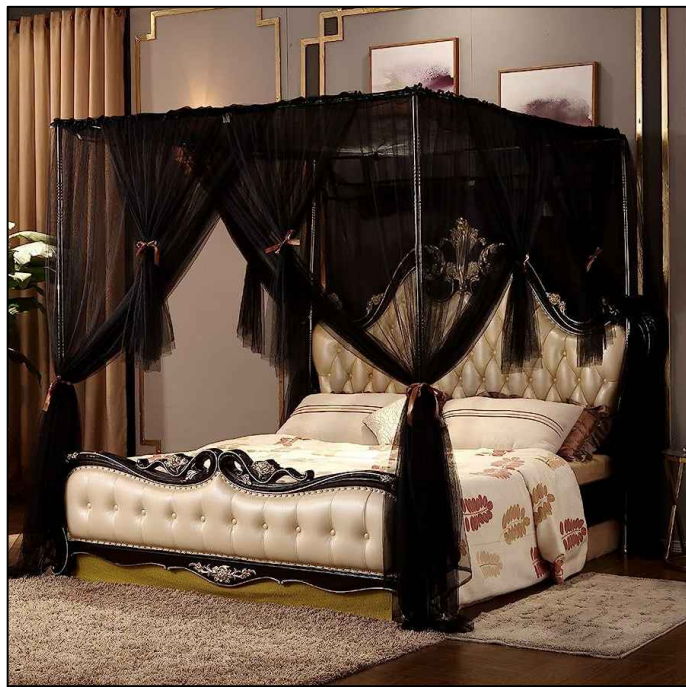
Creamy Off White Granite

The contrast Colour holds the theme together and increases the look of kitchen platform



Oven and Stove





Four Poster Bed
This kind of bed really goes with the vintage theme and the mosquito net or a curtain adds up the fling of beauty



Ceiling Fan with light
This kind of lamp helps with illumination under the fan



Side Table
This kind of side table really goes with the vintage bed and the lamp or a showpiece adds up the fling of beauty



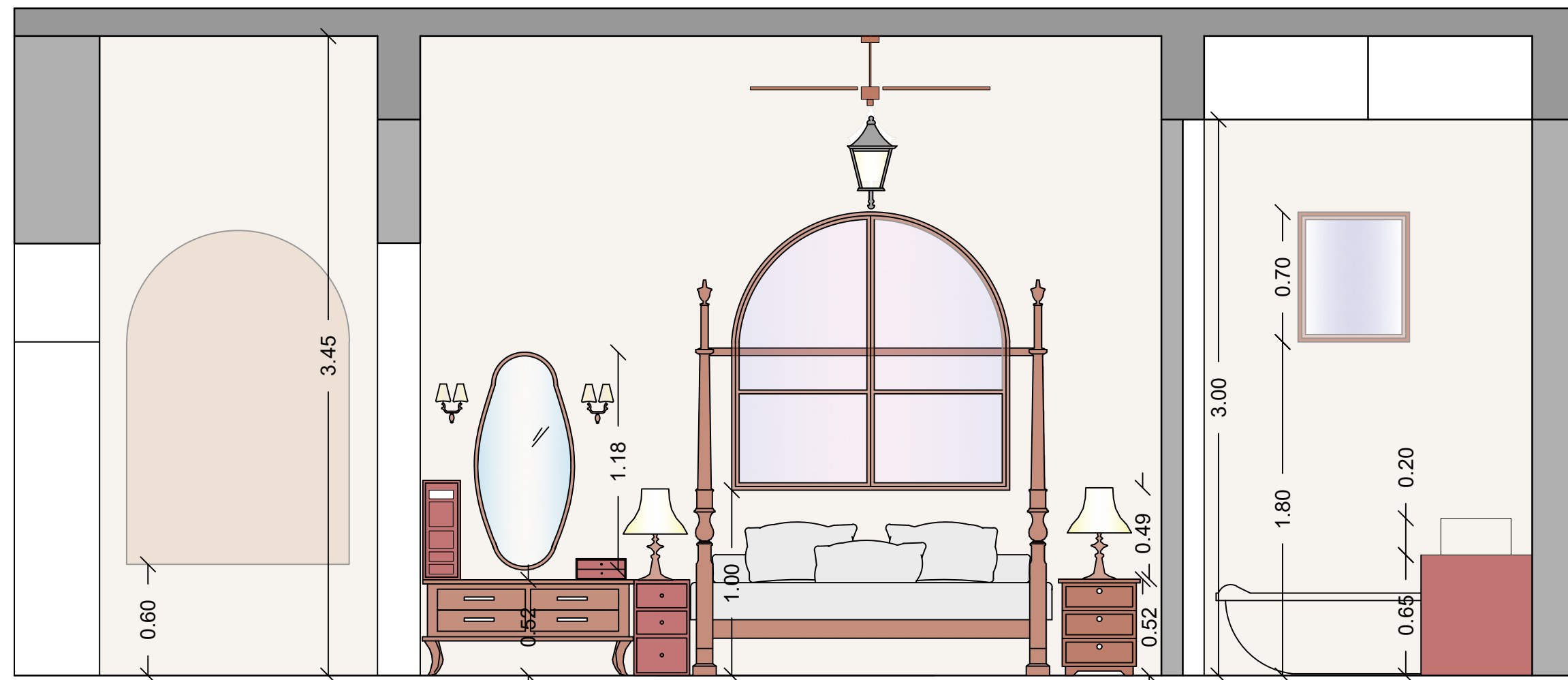
Vintage clocks and door handles or locks



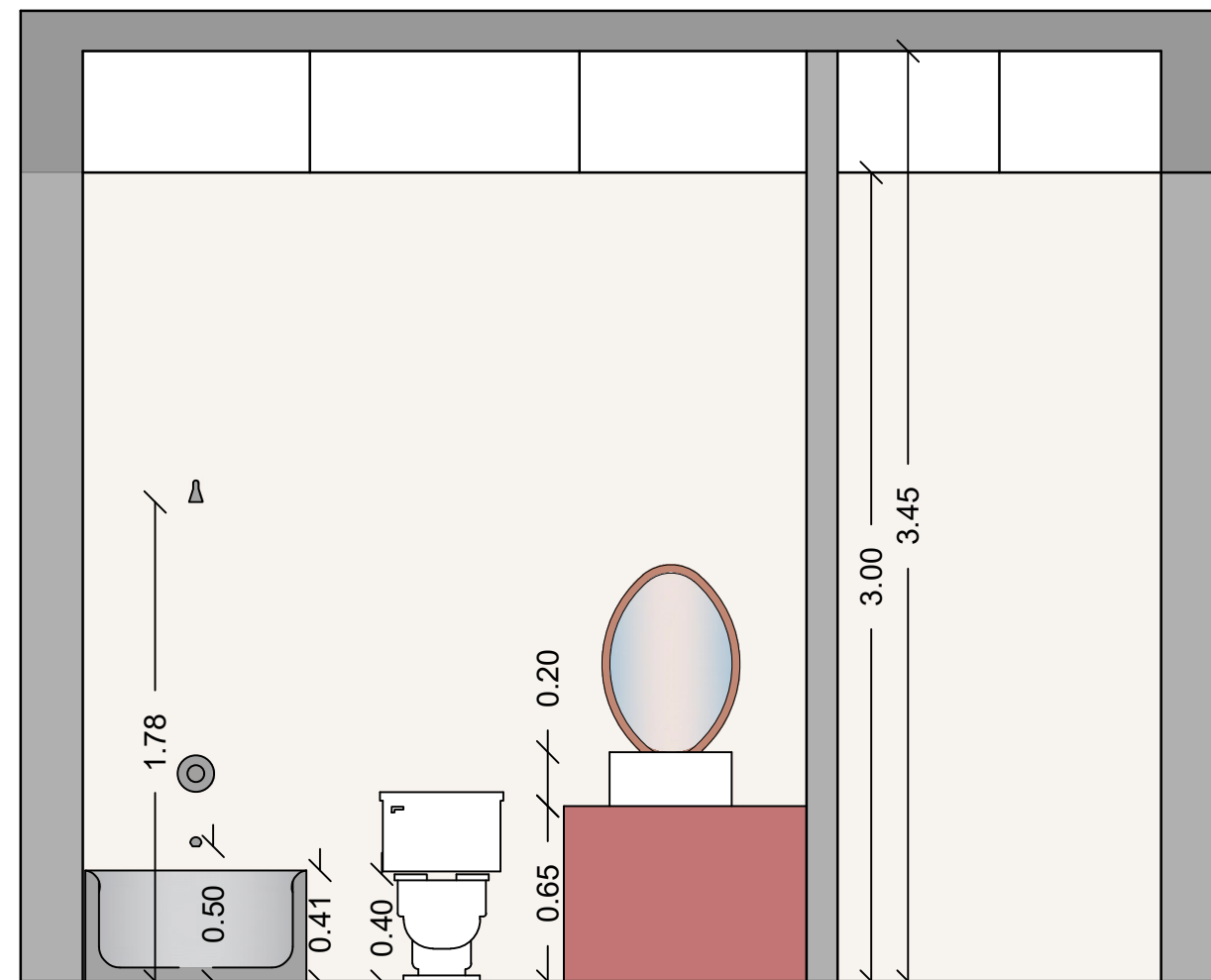
Mirror
Wooden framing mirror with exclusive carving



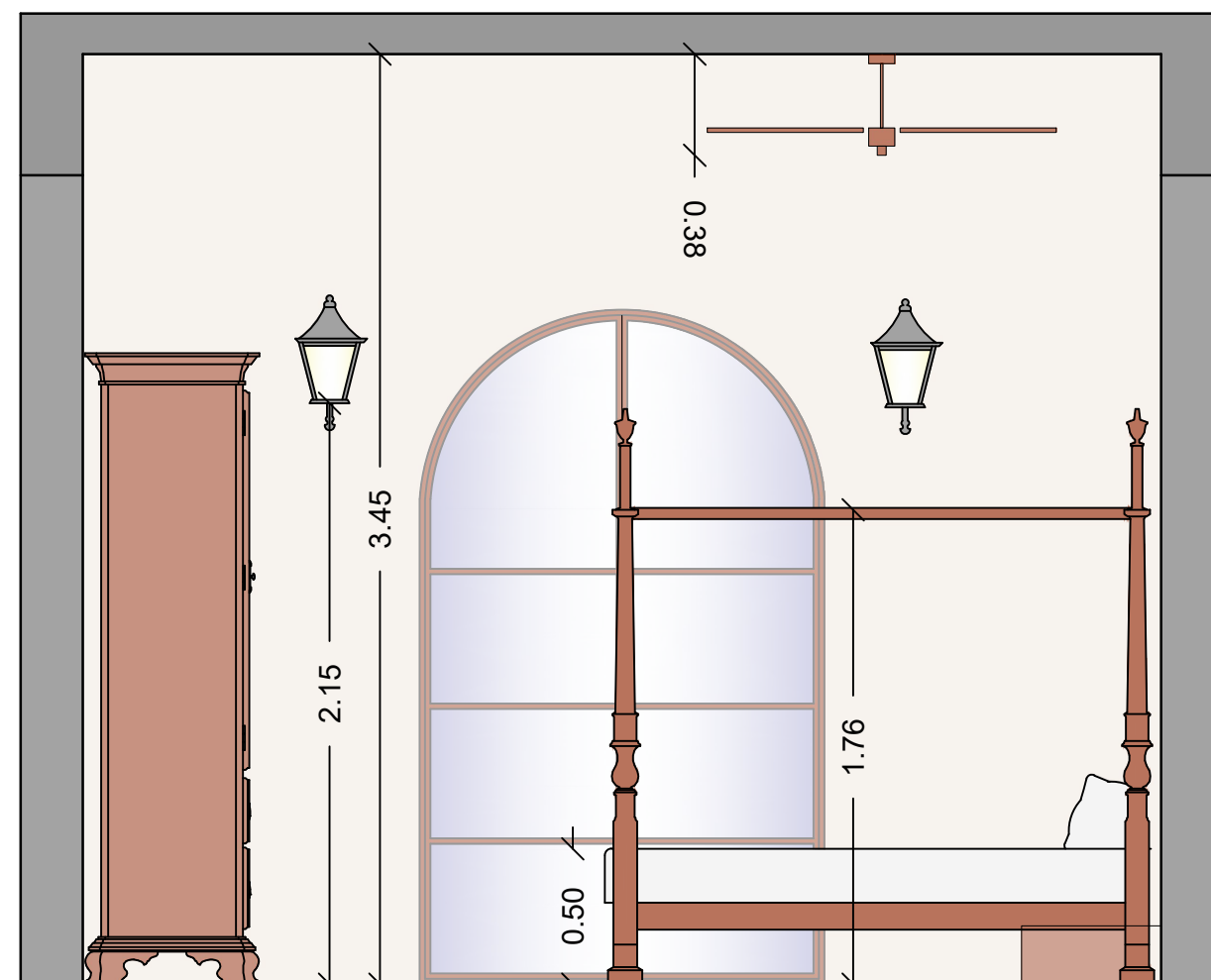
Dressing Unit with Lights



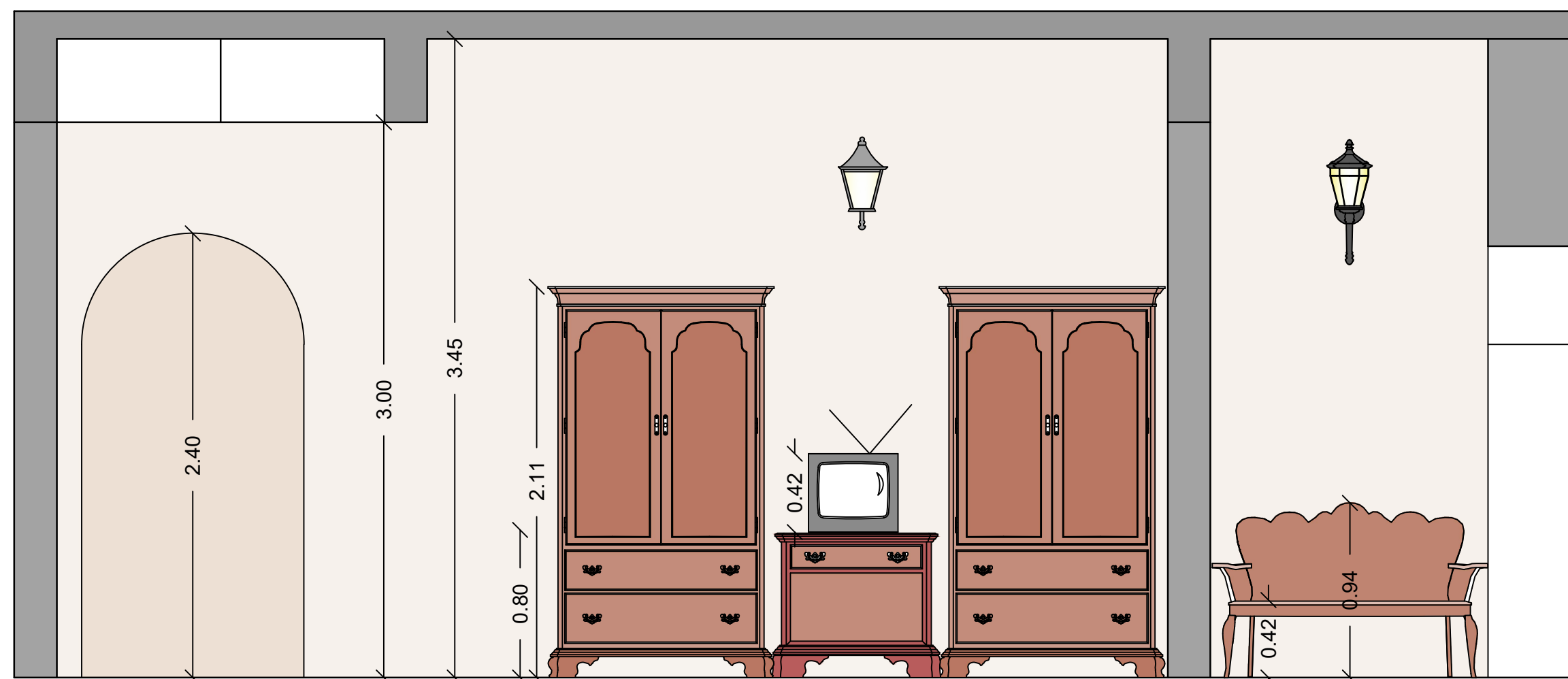
Section AA'



Section BB'



Section CC'



Section DD'

Bathroom



Wash basin



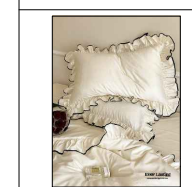
Cupboard
Carved wooden cupboard are neverdying beauty



The copper taps, off white curtains, wooden storages, china clay utensils in the bathroom increses the beauty of a bathroom



Curtain Fabric
Dense floral embroidery voile, luxury custom sheer curtains for living room, light Beige lace tuelle curtains.



Bed sheets
Off white worked fabric is a plush, two way stretch fabric that has a luxurious look and feel.



Copper pinned Skirting
It obviously adds a glance of royalty and matches the theme.

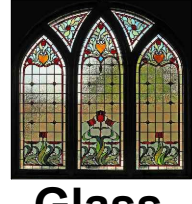


Wall

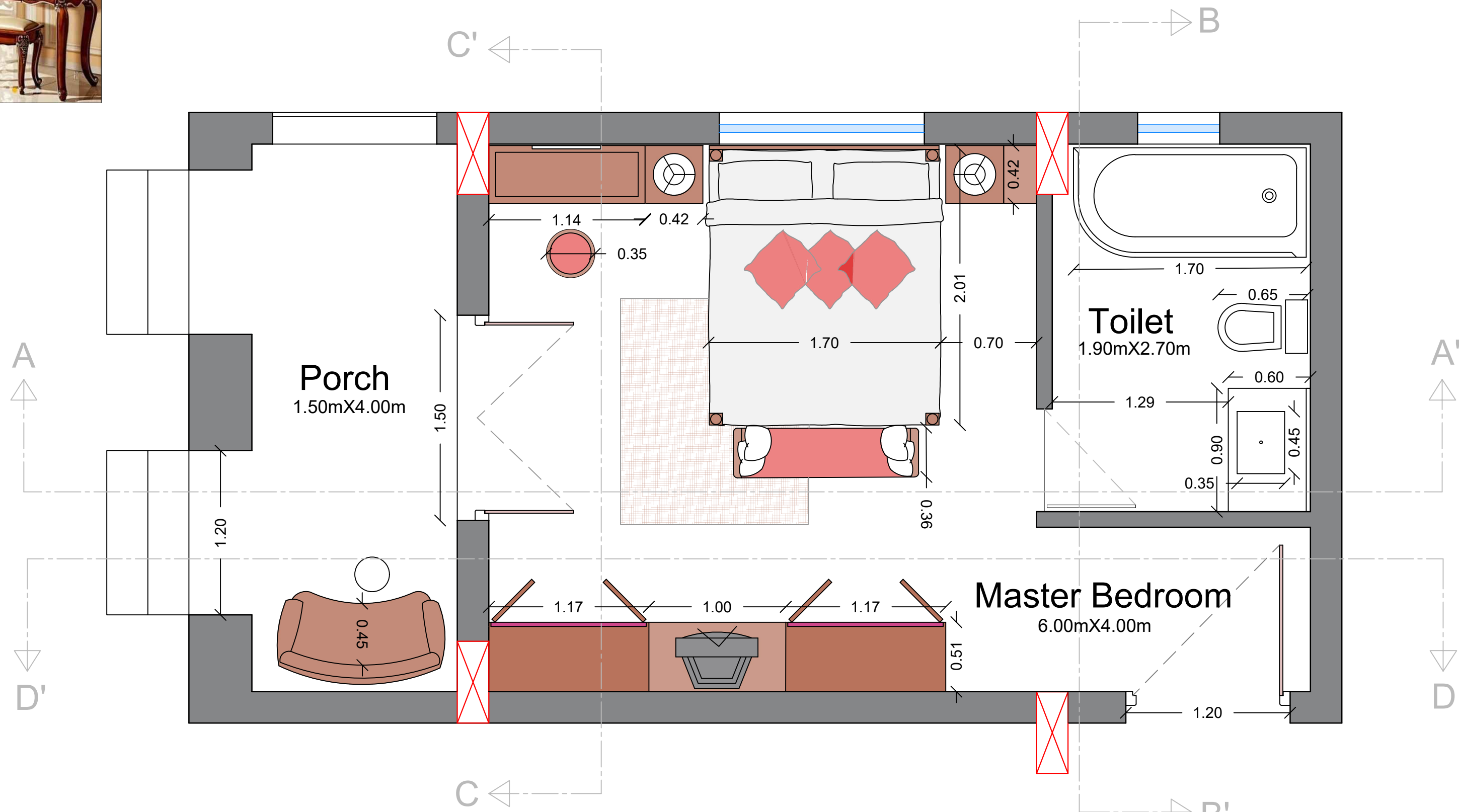
Ceiling

Flooring

Stained glass or carved glass with a pinch of basic design makes it aesthetic.



Glass



PLAN

Sheet No. -

06

Master Bedroom

Sign/Stamp -

Date - 25/11/23

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ROLL NO.

Scale - 1: 30

Subject - Interior Designing

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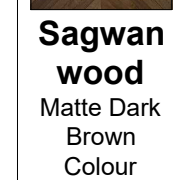
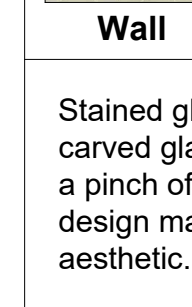
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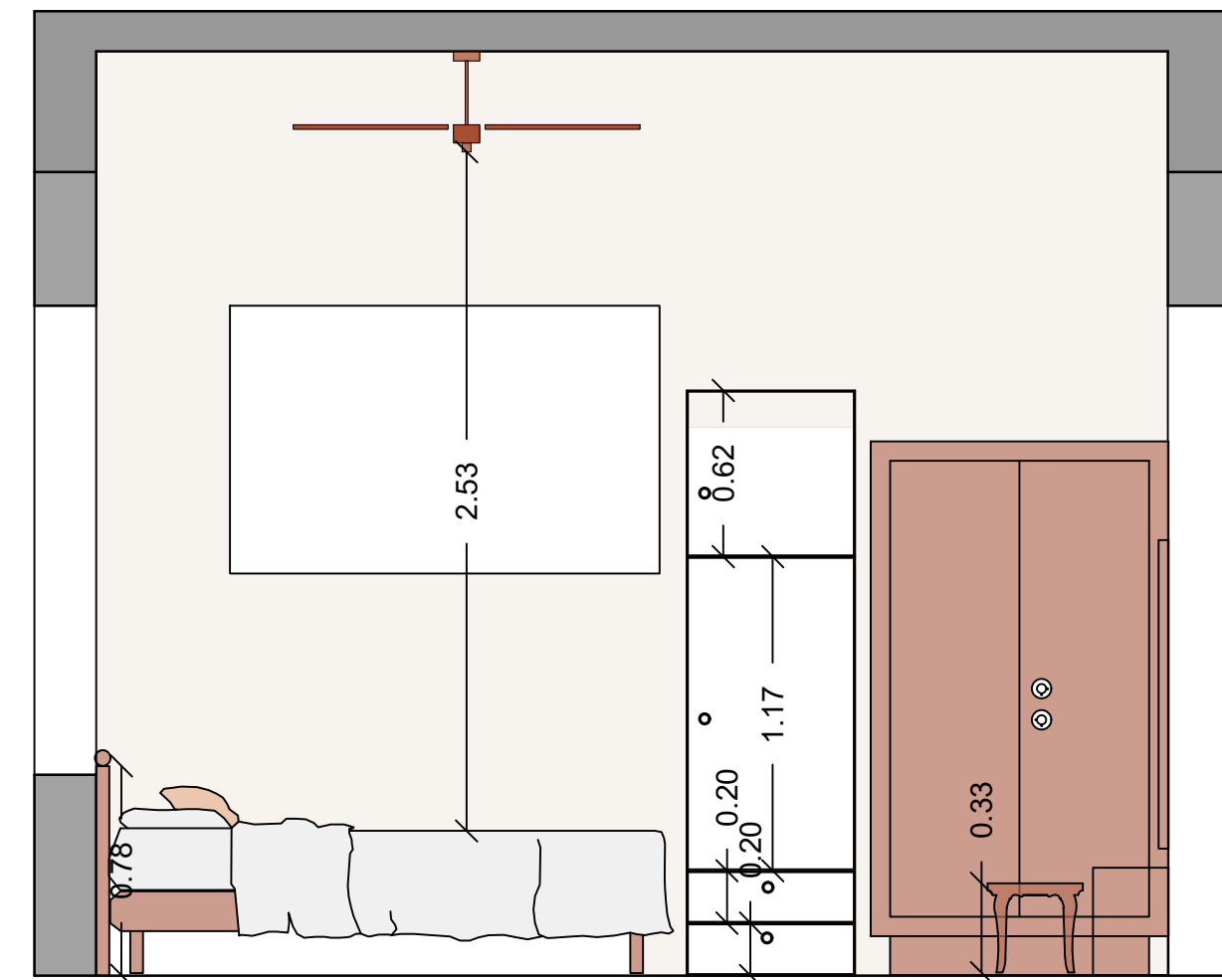
Sem V

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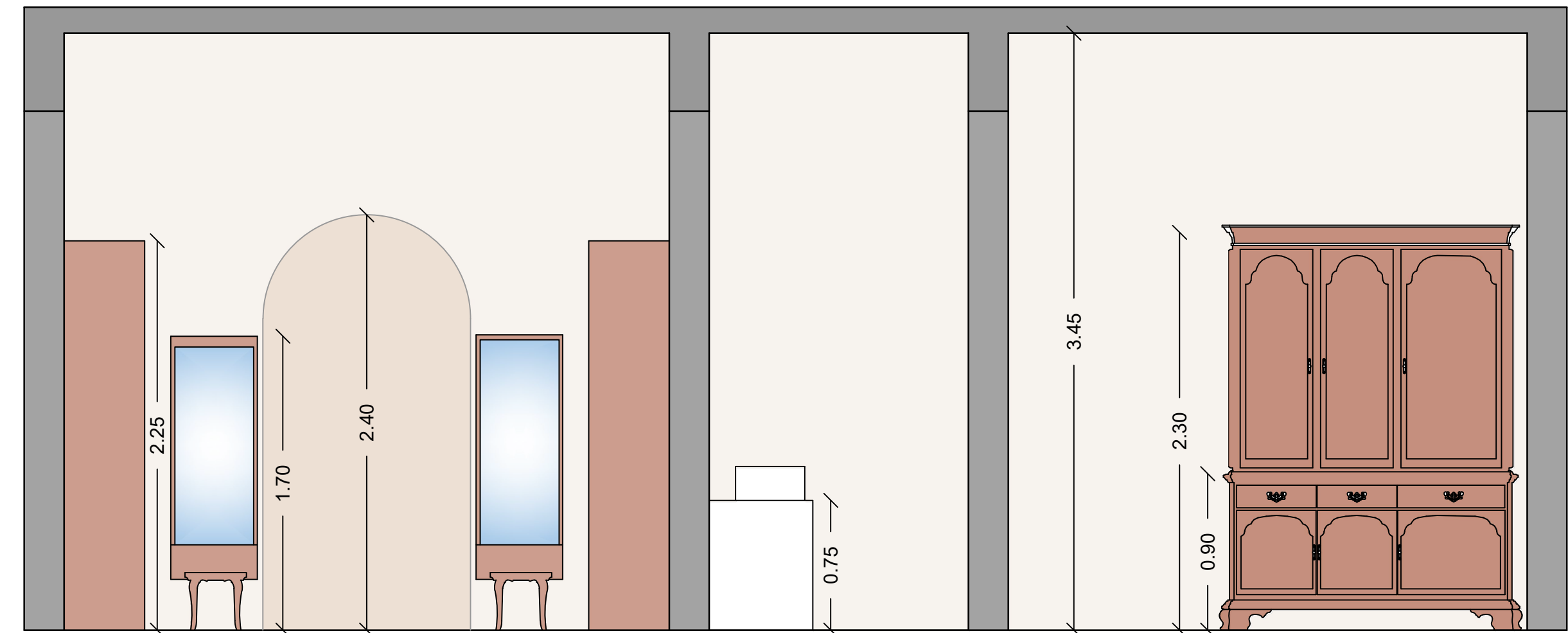


Children Bedroom

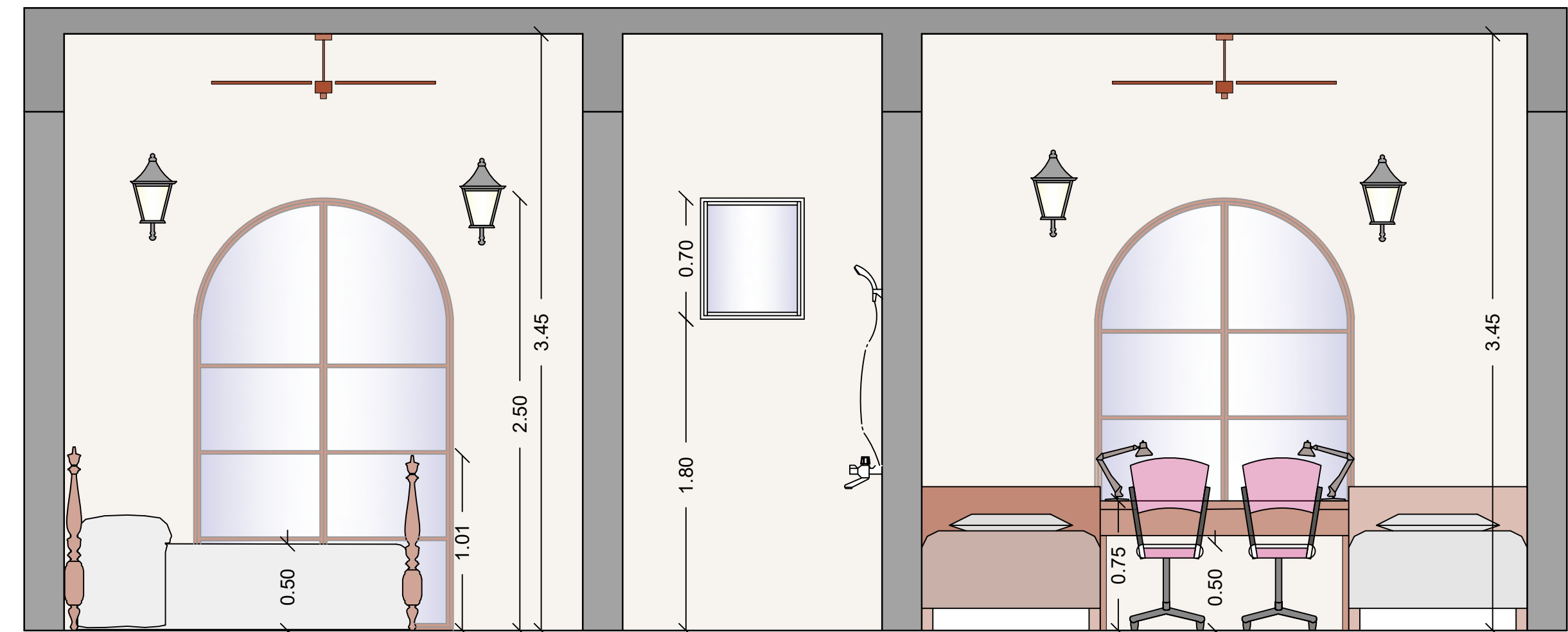
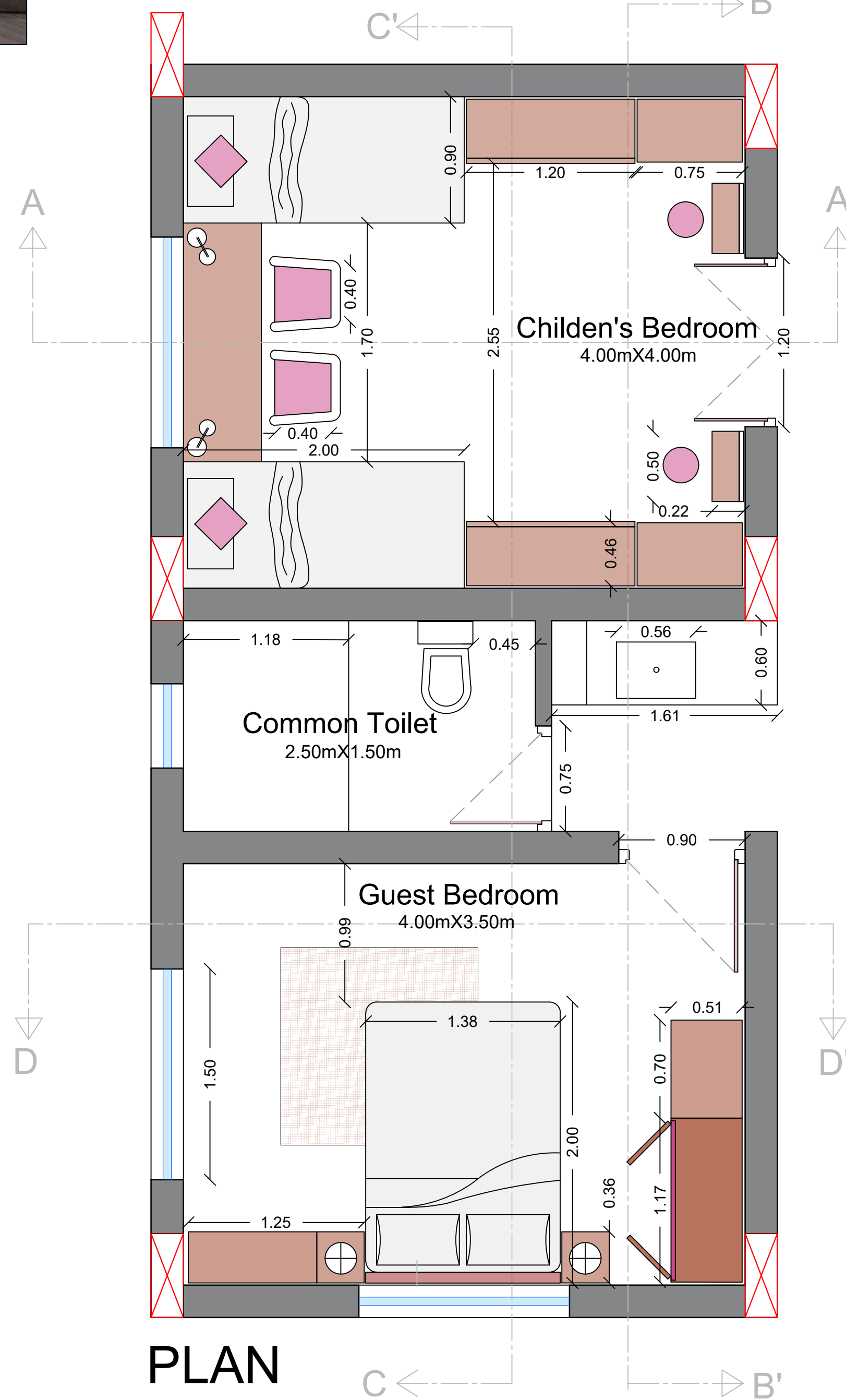
 Curtain Fabric Dense floral embroidery voile, luxury custom sheer curtains for living room, light beige lace tuille curtains.	 Sagwan wood Matte Dark Brown Colour
 Chair Fabric Off white worked fabric is a plush, two way stretch fabric that has a luxurious look and feel.	 Lamp Colour Matte Dark Brown colour or matte black
 Copper pinned Skirting It obviously adds a glance of royalty and matches the theme.	 Glass Stained glass or carved glass with a pinch of basic design makes it aesthetic.
 Wall	 Ceiling
 Flooring	 Glass



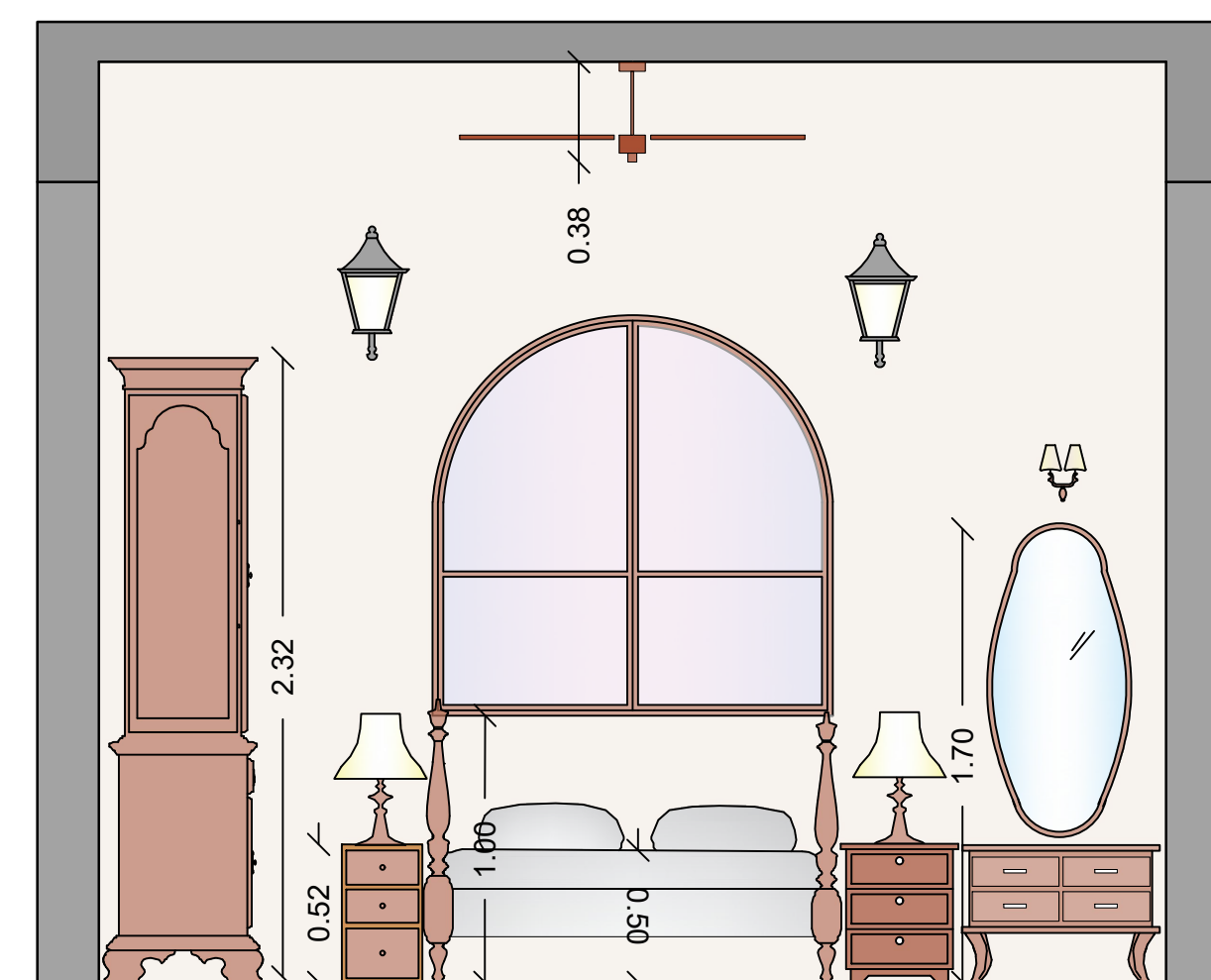
Section AA'



Section BB'



Section CC'



Section DD'

Four Poster Bed

These increase the beauty of a wall without really decorating it also provides both ambient light and task light while adding a decorative element to the home decor



Sheet No. -

07

Bedrooms with Common Toilet

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Curtain Fabric
Dense floral embroidery voile, luxury custom sheer curtains for living room, light Beige lace tuelle curtains.



Sofa Fabric
Dark Brown leather fabric, two way stretch fabric that has a luxurious look and feel.



Copper pinned Skirting
It obviously adds a glance of royalty and matches the theme.



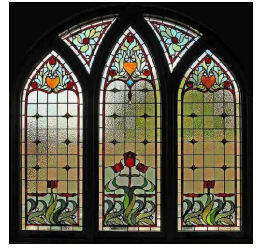
Wall



Ceiling



Flooring



Glass

Stained glass or carved glass with a pinch of basic design makes it aesthetic.



Sagwan wood
Matte Dark Brown Colour



Lamp Colour
Matte Dark Brown colour or matte black



Sewing Machine



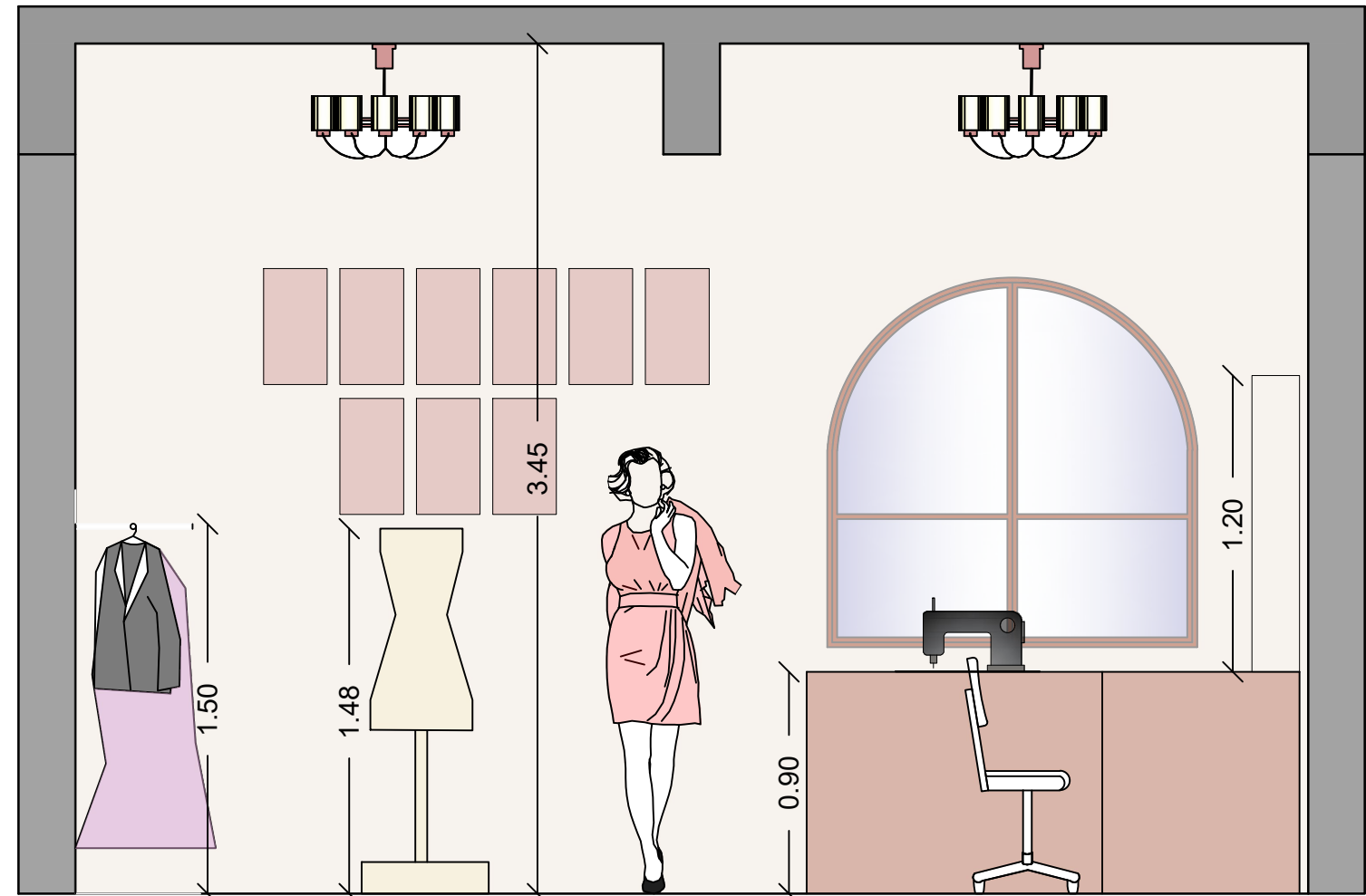
Mannequin



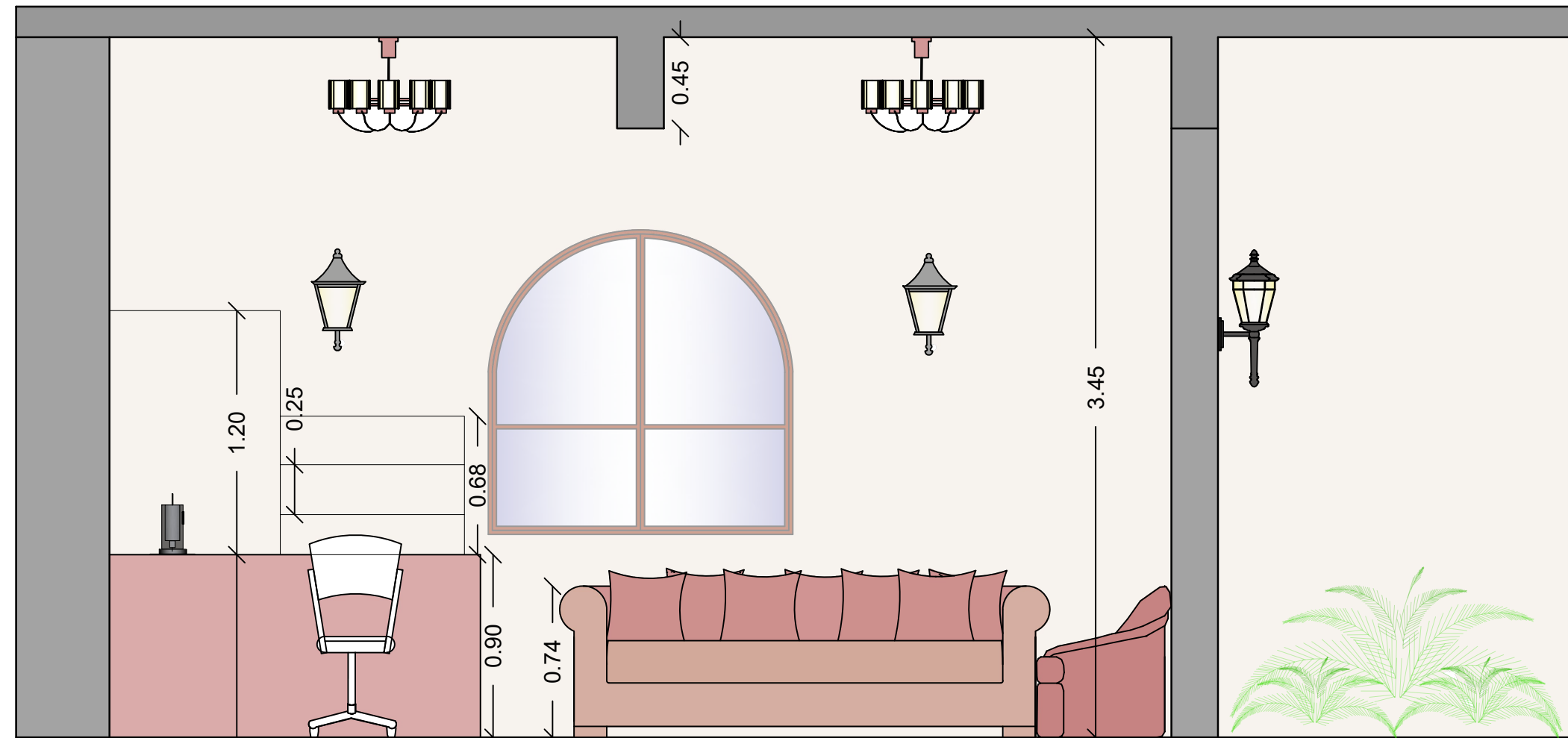
Stools



Nameplate



Section AA'



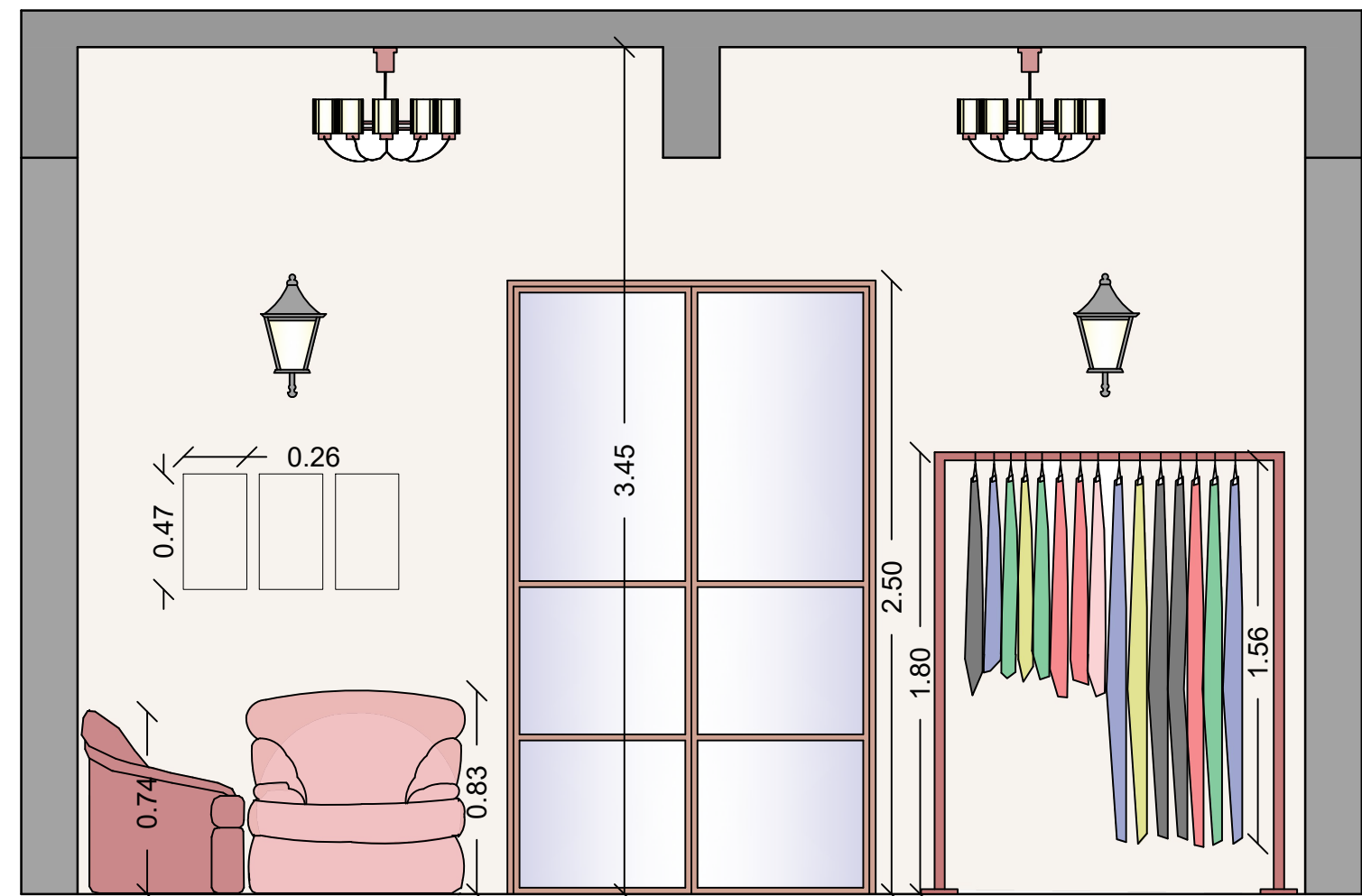
Section BB'



PLAN



Section CC'



Section DD'



Leather Couch



Pillow

Brown leather sofa to make the overall look a little rich and make it royal as well as antique.



Indoor Planted Plots



Round Off White Rug



Wall mounted Lamp



Chandelier



Cloth Hanger



Sheet No. -

08

Studio

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Scale - 1: 30

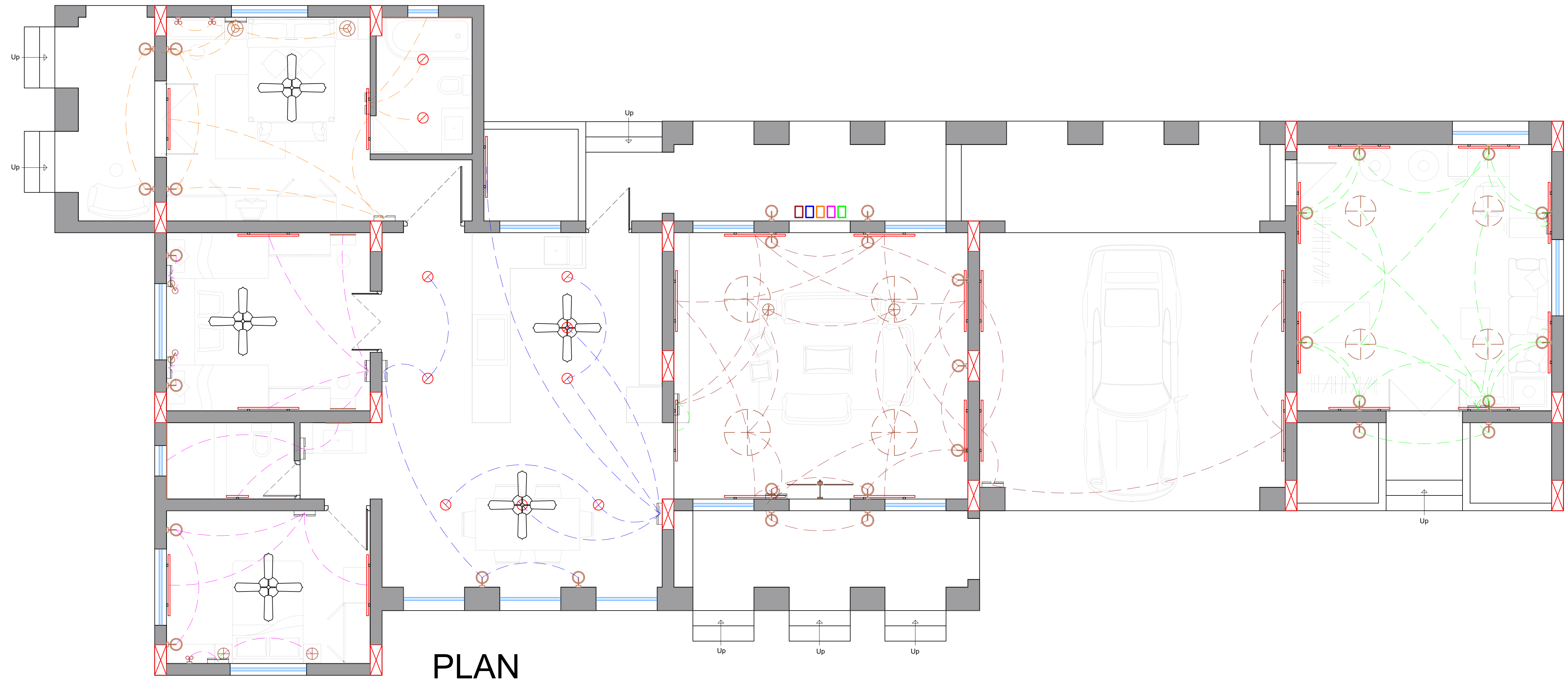
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PLAN

Wattage

Sr No	User	Direct / Flood Light			Ambient Light			Safety Device	
		Watts	Number of lumineries	Total Watts	Watts	Number of lumineries	Total Watts	MCB	Total Watts
1)	Parking	40	4	160	-	-	-	MCB - 1	785
2)	Porch	10	3	30	10	2	20		
3)	Living Room	55	8	440	15	9	135	MCB - 2	295
4)	Kitchen	35	3	105	15	2	30		
5)	Dining	30	3	90	15	2	30		
6)	Passage	20	2	40	-	-	-	MCB - 3	200
7)	Master Bedroom	60	2	120	20	4	80		
8)	Children Bedroom	55	3	110	15	4	60	MCB - 4	340
9)	Guest Bedroom	55	3	110	15	4	60		
10)	Studio	60	8	480	10	8	80	MCB - 5	560



Floor Lamp



Tubelight



Royal Chandelier



Wall mounted Lamp (Wooden)



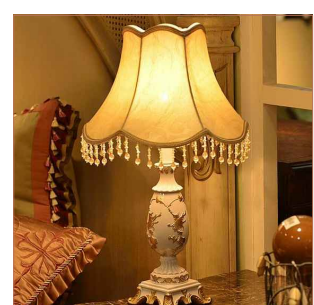
Modern Chandelier



Fan with central Light



Strip Light



Side Table Lamp



Wall mounted dressing lamp



Wall mounted Lamp (Black)



Wall mounted Lamp (Brown)



Vintage Fan

Sheet No. -

03

Lighting Layout

Sign/Stamp -

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Roll No.

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Activity	Required Lux
Porch & Entrance Lobby	75
Hall & Staircase	200
Kitchen	200
Dining	200
Master Bedroom	200
Children Bedroom	500
Guest Bedroom	200
Seperate Toilet	75
Studio	500
Passage	75
Parking	200

Master Bedroom

- 1) Area - 4m x 4m = 16 sqm.
- 2) Required Lux = 200 lux.
- 3) Considering Luminaries = Led tubelight
- 4) Lumion Efficiency Of Led tubelight = 60
- 5) Hm = 3.45-0.45 = 3m
- 6) Maintainence Factor = 0.65
- 7) Utilization Factor = 0.69
- 8) Lumen per fixture = $(200 \times 16) / (0.65 \times 0.69 \times 2) = 3567$
- 9) Each fixture wattage = $3567 / 60 = 59.46 \sim 60$

Children Bedroom

- 1) Area - 4m x 3.5m = 14 sqm.
- 2) Required Lux = 200 lux.
- 3) Considering Luminaries = Led tubelight
- 4) Lumion Efficiency Of Led tubelight = 60
- 5) Hm = 3.45-0.45 = 2.15m
- 6) Maintainence Factor = 0.65
- 7) Utilization Factor = 0.69
- 8) Lumen per fixture = $(200 \times 14) / (0.65 \times 0.69 \times 2) = 3121$
- 9) Each fixture wattage = $3121 / 60 = 52.02 \sim 55$

Guest Bedroom

- 1) Area - 4m x 3m = 12 sqm.
- 2) Required Lux = 200 lux.
- 3) Considering Luminaries = Led tubelight
- 4) Lumion Efficiency Of Led tubelight = 60
- 5) Hm = 3.45-0.45 = 3m
- 6) Maintainence Factor = 0.65
- 7) Utilization Factor = 0.69
- 8) Lumen per fixture = $(200 \times 12) / (0.65 \times 0.69 \times 2) = 2675$
- 9) Each fixture wattage = $2675 / 60 = 44.59 \sim 45$

Entrance

- 1) Area - 6m x 1.5m = 9 sqm.
- 2) Required Lux = 75 lux.
- 3) Considering Luminaries = Led Wall Mounted
- 4) Lumion Efficiency Of Led wall mounted = 60
- 5) Hm = 3.45
- 6) Maintainence Factor = 0.65
- 7) Utilization Factor = 0.69
- 8) Lumen per fixture = $(75 \times 9) / (0.65 \times 0.69 \times 3) = 501$
- 9) Each fixture wattage = $501 / 60 = 8.35 \sim 10$

Kitchen

- 1) Area - 3.73m x 3.73m = 13.91 sqm.
- 2) Required Lux = 200 lux.
- 3) Considering Luminaries = Led bulb
- 4) Lumion Efficiency Of Led bulb = 60
- 5) Hm = 3-0.85 = 2.15m
- 6) Maintainence Factor = 0.65
- 7) Utilization Factor = 0.69
- 8) Lumen per fixture = $(200 \times 13.91) / (0.65 \times 0.69 \times 3) = 2067$
- 9) Each fixture wattage = $2067 / 60 = 34.46$
- 10) SHR = $1/2.15 \sqrt{13.91/4} = 0.86$
- 11) Max spacing between luminaries = $0.86 \times 2.15 = 1.84$
- 12) No of rows along width = $3.73 / 1.84 = 2$
- 13) Number of fixture each row = $4/2 = 2$
- 14) Axial Spacing Between each fixture = $3.73/2 = 1.86$
- 15) Calculating transverse spacing = $3.73/2 = 1.86$

Dining

- 1) Area - 5.5m x 3m = 16.5 sqm.
- 2) Required Lux = 200 lux.
- 3) Considering Luminaries = Led bulb
- 4) Lumion Efficiency Of Led bulb = 60
- 5) Hm = 3-0.85 = 2.15m
- 6) Maintainence Factor = 0.65
- 7) Utilization Factor = 0.69
- 8) Lumen per fixture = $(200 \times 16.5) / (0.65 \times 0.69 \times 3) = 1839$
- 9) Each fixture wattage = $1839 / 60 = 30.65$
- 10) SHR = $1/2.15 \sqrt{16.5/3} = 0.94$
- 11) Max spacing between luminaries = $0.94 \times 2.15 = 2$
- 12) No of rows along width = $3/2 = 1.5$
- 13) Number of fixture each row = $3/1.63 = 2.45$
- 14) Axial Spacing Between each fixture = $3/2.45 = 1.22$
- 15) Calculating transverse spacing = $5.5/2.45 = 2.24$

Studio

- 1) Area - 5m x 5m = 14 sqm.
- 2) Required Lux = 500 lux.
- 3) Considering Luminaries = Led tubelight
- 4) Lumion Efficiency Of Led tubelight = 60
- 5) Hm = 3.45-0.45 = 3m
- 6) Maintainence Factor = 0.65
- 7) Utilization Factor = 0.69
- 8) Lumen per fixture = $(500 \times 25) / (0.65 \times 0.69 \times 8) = 3483$
- 9) Each fixture wattage = $3483 / 60 = 58.02 \sim 60$

Living Room

- 1) Area - 6m x 5m = 30 sqm.
- 2) Required Lux = 200 lux.
- 3) Considering Luminaries = Led tubelight
- 4) Lumion Efficiency Of Led tubelight = 30
- 5) Hm = Total Floorheight - 0.45 sitting = 3.45 - 0.45 = 3m
- 6) Maintainence Factor = 0.65
- 7) Utilization Factor = 0.69
- 8) Lumen per fixture = $(\text{Required lux} \times \text{Room area}) / (\mu\text{FX} \times \text{UFX} \times \text{No of fixture}) = (200 \times 30) / (0.65 \times 0.69 \times 8) = 1672$
- 9) Each fixture wattage = $\text{Lumen per fixture} / \text{Luminous efficiency} = 1672 / 30 = 55.74 \sim 60$

