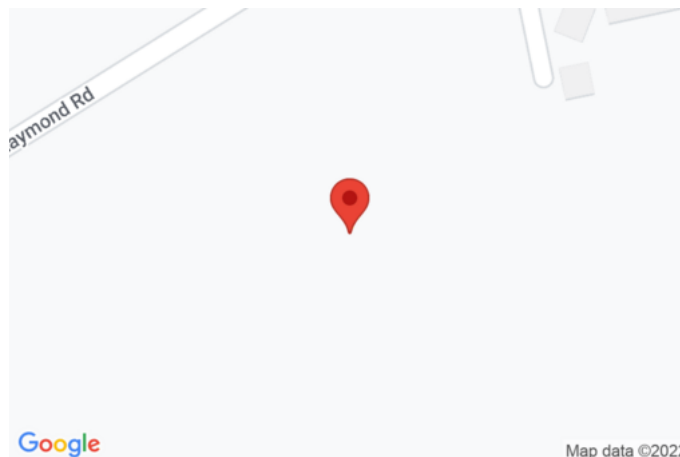


# Patrick J. Lee – Electrical “Kitchen Remodelling”

**SUBMITTED BY**  
Kalmen Kellici

**CREATED ON**  
2022-11-08

**LOCATION**  
4974 Pike Street  
92123 San Diego  
California  
United States



<b>Total area</b> 37.40 m <sup>2</sup>	<b>Floors</b> 1	<b>Rooms</b> 1	<b>Bathroom</b> 0
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## Photos



Photo 1

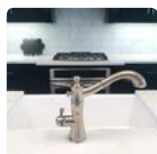


Photo 2

## Kitchen Remodelling - Electrical Requirements

### PLAN SUBMITTAL

#### Permit Application

Yes

Existing Floor Plan for the floor/story where the remodeled kitchen is located. Specify the existing use of all rooms and areas. (Note: existing floor plan may be in a schematic format and is required for reference purposes only).

Yes

Proposed Kitchen Floor Plan showing type and location of the proposed interior cabinetry counter-tops, plumbing fixtures, etc. See requirements below from Building, Electrical/Lighting Requirements, including the example diagram on final page of handout.

Yes

Construction Details for any new/reframed interior/exterior walls/openings, headers, etc.

Yes

### ELECTRICAL REQUIREMENTS

# Patrick J. Lee – Electrical “Kitchen Remodelling”

GFCI and AFCI protection is required for all 125 volt, 15, and 20 ampere receptacles that supply kitchen countertop surfaces [210.8(A) (6), 210.12(A)].

Yes

Two 20 amp. dedicated kitchen counter circuits are required.

Yes

All the kitchen counter receptacles shall be GFCI protected and “tamper resistant”. The counter top circuits required may only be shared with the dining room, breakfast room or a pantry. Dishwashers, garbage disposals, insta-hots, compactors, built in microwave ovens, and the kitchen lighting shall not be on the same electrical circuits (dedicated).

Yes

Receptacle Outlet Location. Receptacle outlets shall be located on or above the countertop, but not more than 20 inches from the countertop surface; unless the receptacle outlet assembly is listed for the application shall be permitted to be installed in the countertop. Receptacles shall not be installed in a face-up position in the work surfaces or countertops and shall not be located on the sides of cabinets.[406.5(E)]

Yes

Counter tops wider than 12” require receptacles. Receptacle shall be no higher than 20” above the counter. Receptacle outlets shall be installed so that no point along the wall line is more than 24”, measured horizontally from an outlet in that space.

Yes

Separate Spaces. When breaks occur in countertop spaces (ranges, refrigerators, sinks, etc.), each countertop surface is considered a separate counter for determining receptacle placement.(210.52(c)(1) If a range, counter-mounted cooking unit, or sink is installed in an island or a peninsular countertop and the depth of the countertop behind the range, counter-mounted cooking unit, or sink is less than 12 inches, the range, counter-mounted cooking unit, or sink shall be considered to divide the countertop space into two separate countertop spaces. Each separate countertop space shall comply with the applicable requirements in 210.52(C).

Yes

New and extended branch circuits supplying outlets and devices (i.e. receptacles, lighting, hoods, etc.) in the kitchen shall be AFCI protected and tamper-resistant (TR).

Yes

Islands or peninsulas require at least 1 receptacle. Receptacles may not be more than 12” below the counter surface or be below a counter that extends more than 6” beyond a cabinets end.

Yes

The maximum length for a garbage disposal cord is 36” and a dishwasher is 48”. Attachment plug and receptacle shall be accessible and labeled.

Yes

Multi-wire duplex receptacles for garbage disposals and dishwashers require a common trip breaker in the service panels.

Yes

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## LIGHTING EFFICIENCY

All luminaires installed shall be high efficacy; screw-based fixtures can be considered high efficacy if labeled as JA8-2016 compliant. However, screw based fixtures can't be used in recessed downlights and be considered high-efficacy.

Yes

Recess downlights must be IC/AT listed, JA8 compliant, and sealed with gasket or caulk

Yes

Under cabinet luminaires shall be separately switched

Yes

Dimmers or vacancy sensors are required to control all high-efficacy luminaires, except closets <70ft<sup>2</sup> and hallways

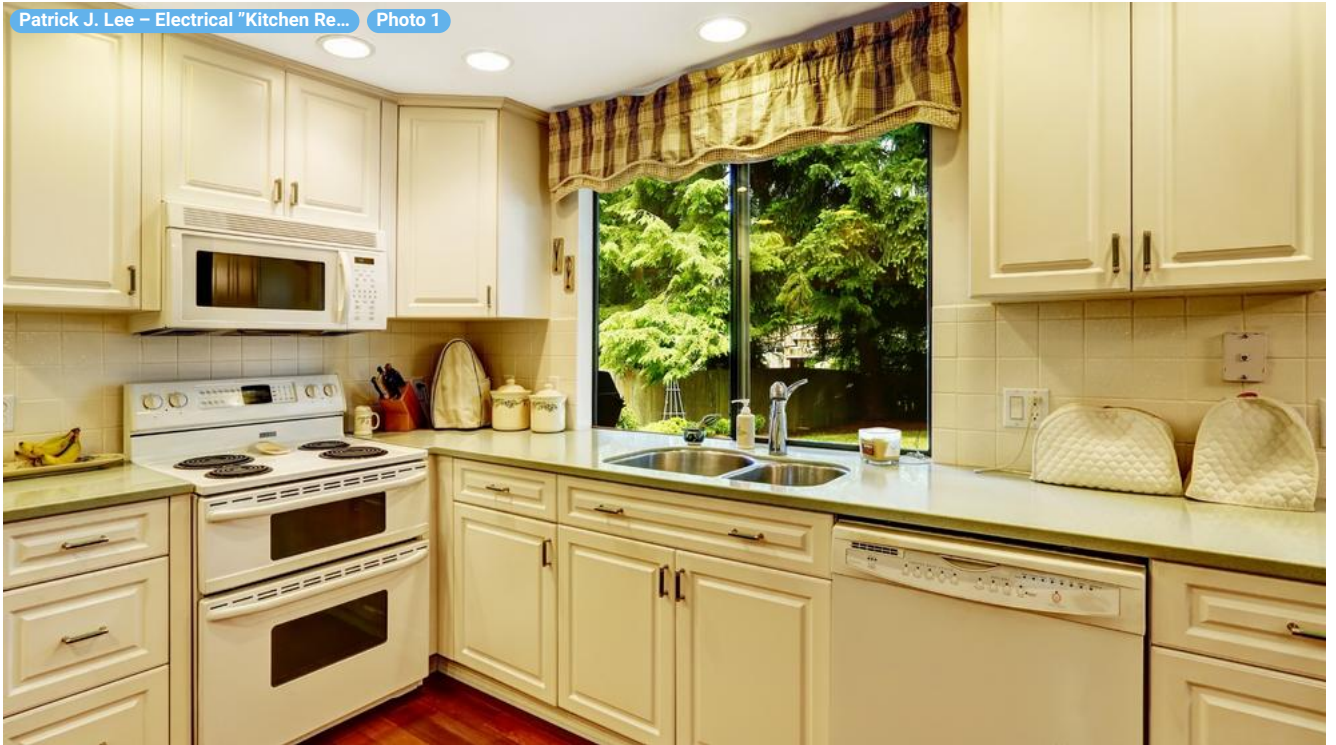
Yes

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TOTAL AREA: 37.40 m<sup>2</sup> • LIVING AREA: 37.40 m<sup>2</sup> • FLOORS: 1 • ROOMS: 1



## ▼ Photos/Patrick J. Lee – Electrical "Kitchen Remodelling"



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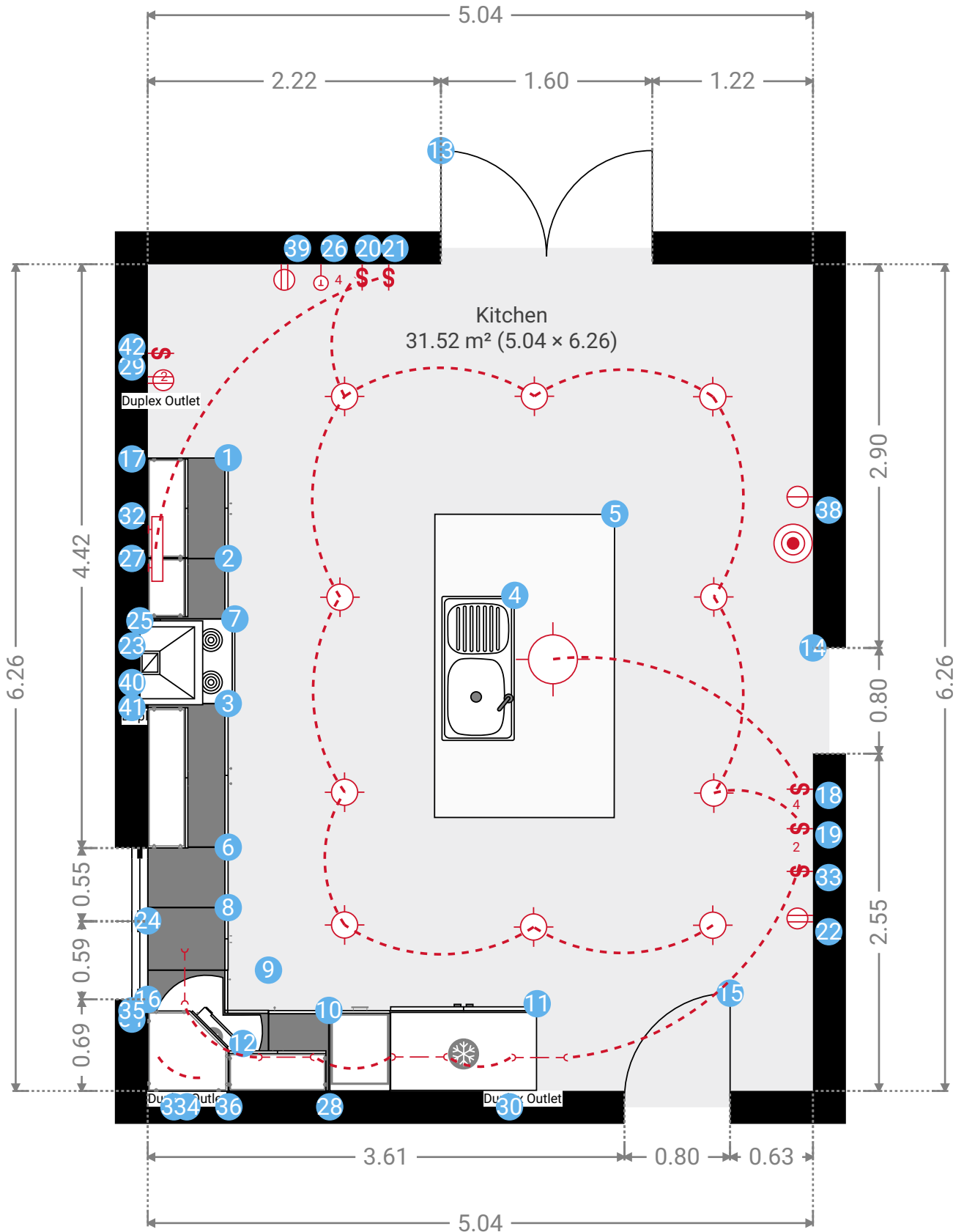
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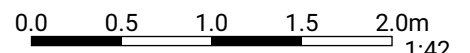


## ▼ Ground Floor

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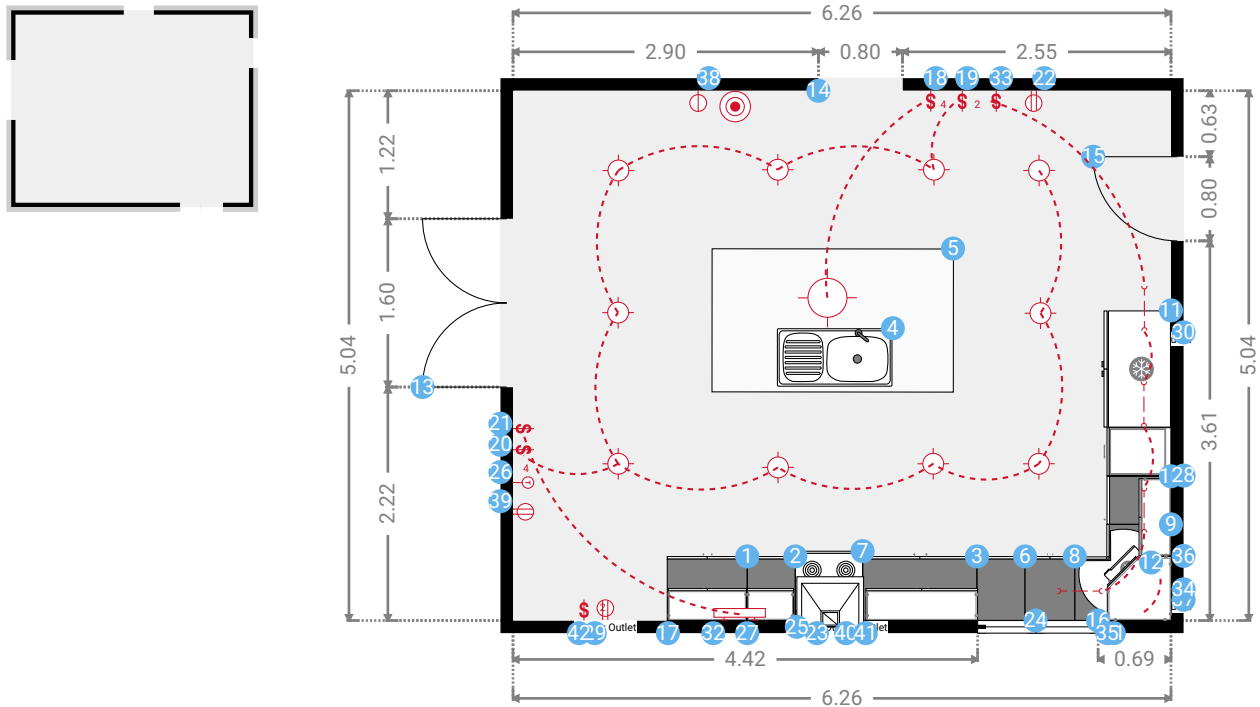
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## ▼ Kitchen Ground Floor

WIDTH: 6.26 m • LENGTH: 5.04 m  
 AREA: 31.52 m<sup>2</sup> • PERIMETER: 22.59 m



## ▼ Kitchen/Ground Floor

### 1 BASE CABINET (RESIZABLE)

**Dimensions**  
 0.76 m x 0.61 m x 0.90 m (Width x Depth x Height)



### 2 BASE CABINET 18"

**Dimensions**  
 0.46 m x 0.61 m x 0.90 m (Width x Depth x Height)



### 3 BASE CABINET (RESIZABLE)

**Dimensions**  
 1.09 m x 0.61 m x 0.90 m (Width x Depth x Height)



### 4 SINK WITH DRAINER

**Dimensions**  
 1.11 m x 0.56 m x 0.28 m (Width x Depth x Height)



### 5 KITCHEN ISLAND

**Dimensions**  
 2.29 m x 1.36 m x 0.90 m (Width x Depth x Height)

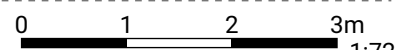


### 6 BASE CABINET 18"

**Dimensions**  
 0.46 m x 0.61 m x 0.90 m (Width x Depth x Height)



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













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## ▼ Kitchen/Ground Floor













<b>7 ELECTRIC STOVE</b>	
<b>Dimensions</b> 0.64 m x 0.66 m x 0.95 m (Width x Depth x Height)	
<b>8 BASE CABINET (RESIZABLE)</b>	
<b>Dimensions</b> 0.47 m x 0.61 m x 0.90 m (Width x Depth x Height)	
<b>9 CAROUSEL BASE CABINET 36"</b>	
<b>Dimensions</b> 0.91 m x 0.91 m x 0.90 m (Width x Depth x Height)	
<b>10 BASE CABINET 18"</b>	
<b>Dimensions</b> 0.46 m x 0.61 m x 0.90 m (Width x Depth x Height)	
<b>11 TWO-DOOR REFRIGERATOR</b>	
<b>Dimensions</b> 1.11 m x 0.66 m x 2.00 m (Width x Depth x Height)	
<b>12 MICROWAVE OVEN</b>	
<b>Dimensions</b> 0.40 m x 0.24 m x 0.25 m (Width x Depth x Height)	
<b>13 DOUBLE HINGED DOOR</b>	
<b>Dimensions</b> 1.60 m x 2.04 m (Width x Height)	
<b>14 OPENING</b>	
<b>Dimensions</b> 0.80 m x 2.04 m (Width x Height)	
<b>15 HINGED DOOR</b>	
<b>Dimensions</b> 0.80 m x 2.04 m (Width x Height)	
<b>16 AWNING WINDOW</b>	
<b>Dimensions</b> 0.59 m x 1.20 m (Width x Height)	
<b>17 DOUBLE CAB. (RESIZABLE)</b>	
<b>Dimensions</b> 0.75 m x 0.90 m (Width x Height)	
<b>18 SWITCH</b>	
<b>Dimensions</b> 0.20 m x 0.30 m (Width x Height)	

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## ▼ Kitchen/Ground Floor

<b>19</b>	<b>4-WAY SWITCH</b> Dimensions 0.20 m x 0.30 m (Width x Height)	 4
<b>20</b>	<b>4-WAY SWITCH</b> Dimensions 0.20 m x 0.30 m (Width x Height)	 4
<b>21</b>	<b>SWITCH</b> Dimensions 0.20 m x 0.30 m (Width x Height)	
<b>22</b>	<b>DUPLEX OUTLET</b> Dimensions 0.20 m x 0.30 m (Width x Height)	
<b>23</b>	<b>220V OUTLET</b> Dimensions 0.20 m x 0.20 m (Width x Height)	
<b>24</b>	<b>AWNING WINDOW</b> Dimensions 0.55 m x 1.20 m (Width x Height)	
<b>25</b>	<b>COOKING HOOD</b> Dimensions 0.64 m x 0.70 m (Width x Height)	
<b>26</b>	<b>THERMOSTAT</b> Dimensions 0.20 m x 0.30 m (Width x Height)	
<b>27</b>	<b>SINGLE CAB. (RESIZABLE)</b> Dimensions 0.44 m x 0.90 m (Width x Height)	
<b>28</b>	<b>TALL CABINET (RESIZABLE)</b> Dimensions 0.46 m x 2.00 m (Width x Height)	
<b>29</b>	<b>DUPLEX OUTLET</b> Dimensions 0.20 m x 0.30 m (Width x Height)	
<b>30</b>	<b>DUPLEX OUTLET</b> Dimensions 0.20 m x 0.30 m (Width x Height)	















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## ▼ Kitchen/Ground Floor

<b>31 WALL MOUNTED FIXTURE</b>	
Dimensions 0.50 m x 0.50 m (Width x Height)	
<b>32 WALL MOUNTED FIXTURE</b>	
Dimensions 0.50 m x 0.50 m (Width x Height)	
<b>33 2-WAY SWITCH</b>	
Dimensions 0.20 m x 0.30 m (Width x Height)	2
<b>34 SWITCH</b>	
Dimensions 0.20 m x 0.30 m (Width x Height)	
<b>35 LEFT CORNER WALL CAB. 24"</b>	
Dimensions 0.61 m x 0.90 m (Width x Height)	
<b>36 DOUBLE CAB. (RESIZABLE)</b>	
Dimensions 0.74 m x 0.90 m (Width x Height)	
<b>37 DUPLEX OUTLET</b>	
Dimensions 0.20 m x 0.30 m (Width x Height)	
<b>38 SINGLE OUTLET</b>	
Dimensions 0.20 m x 0.30 m (Width x Height)	
<b>39 DUPLEX OUTLET</b>	
Dimensions 0.20 m x 0.30 m (Width x Height)	
<b>40 DUPLEX OUTLET</b>	
Dimensions 0.20 m x 0.30 m (Width x Height)	
<b>41 DOUBLE CAB. (RESIZABLE)</b>	
Dimensions 1.07 m x 0.90 m (Width x Height)	
<b>42 2-WAY SWITCH</b>	
Dimensions 0.20 m x 0.30 m (Width x Height)	2

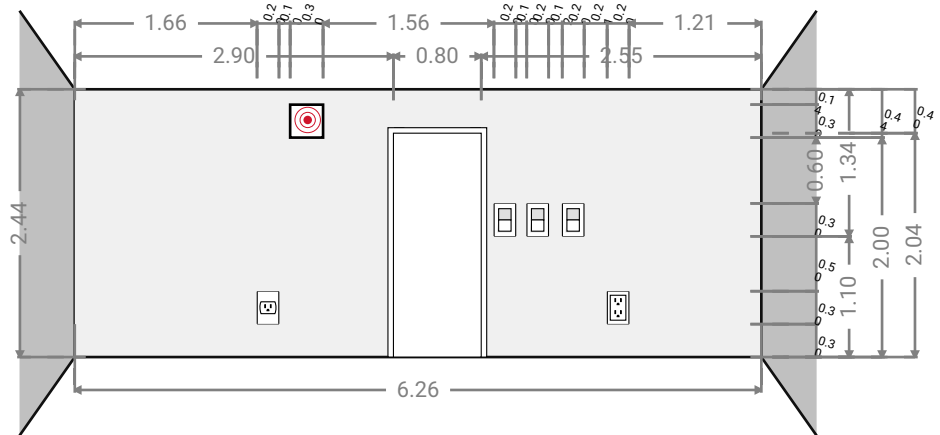
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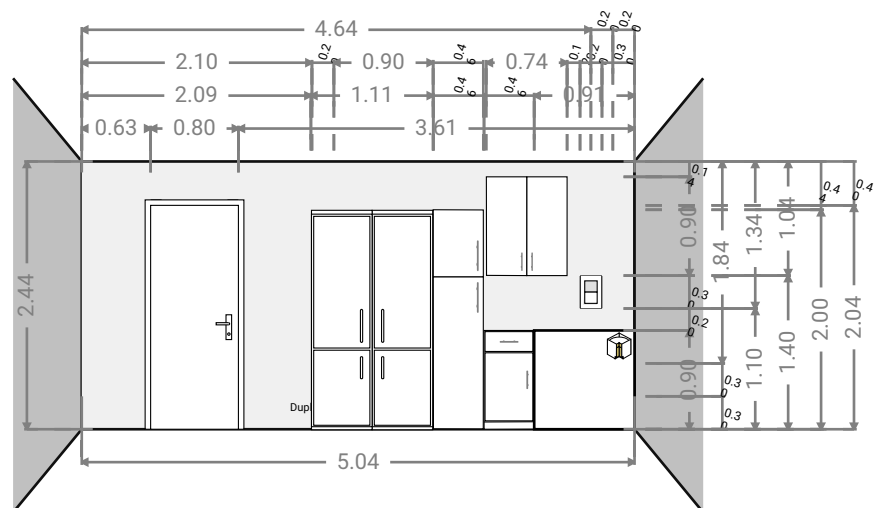
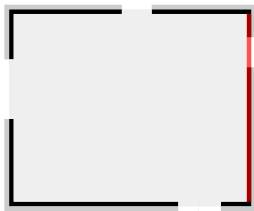
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 AREA: 31.52 m<sup>2</sup> • PERIMETER: 22.59 m

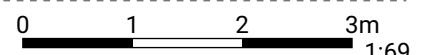


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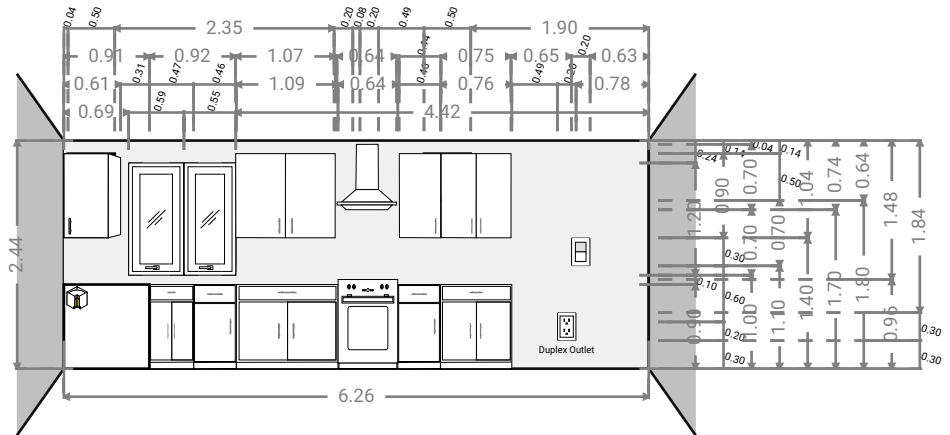
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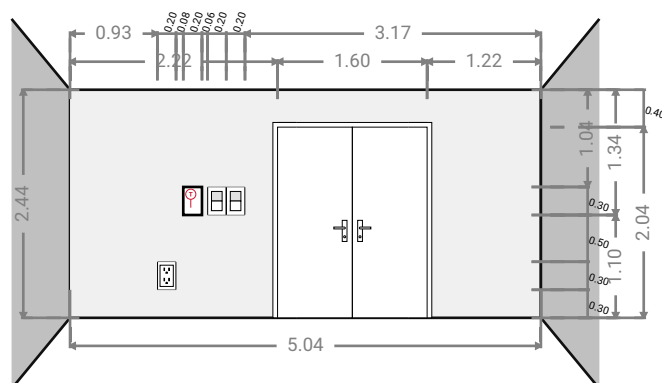
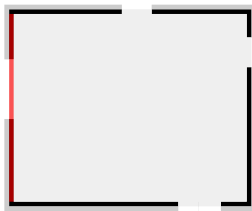
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