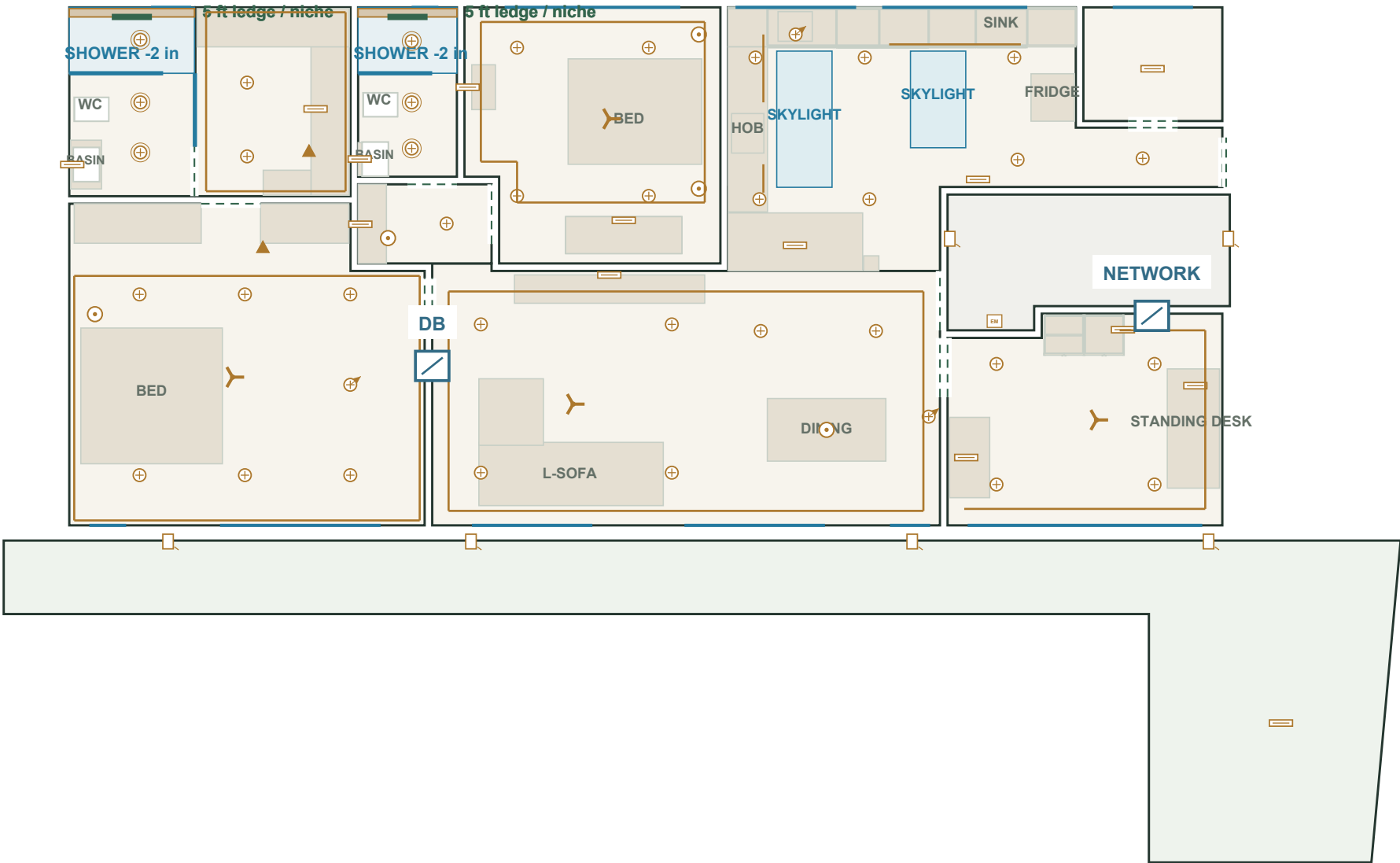


# Electrical plan - second floor

Room-by-room lighting, switchboards, sockets, data and AC. Gym and laundry excluded.

WEST / REAR = WET-ROOM AND KITCHEN SERVICE EDGE



### Included in this issue

Master bedroom, closet and bathroom; bedroom 2 and bathroom; common basin; living/dining; kitchen/store; office; stair entrance; terrace.

### Two separate trade books

Use Electrical for fitting types, controls, power/data and coordinates. Use Plumbing for water, waste, fixture rough-ins, geysers, condensate and rainwater.

### Fixed project context

Finished ceiling 10 ft. Warm cream/wood interiors and white fans. Gym and laundry are outside this issue. Room geometry and current furniture are retained.

# What kind of light goes where

Fitting symbols, finish, colour temperature, output and purpose. The same symbols appear on every room plan.



### Recessed ceiling downlight

Deep white baffle; wide 50-70 degree beam. 3000 K, CRI 90+, dimmable LED; start at 600-800 lm, then check selected photometry at the 10 ft ceiling.



### Sealed bathroom downlight

White recessed sealed IP65 fitting; 3000 K, CRI 90+, approximately 500-700 lm. Match the selected product to the final wet-zone assessment.



### Decorative hanging pendant

Diffused shade, no bare lamp glare. Bedside 250-400 lm; dining 1200-1800 lm total; common basin 400-600 lm. 2700-3000 K; dimmable.



### Adjustable artwork wash

White recessed adjustable spotlight, CRI 90+, 3000 K, approximately 400-600 lm. Aim at artwork, not seated eyes or the TV screen.



### Task / joinery LED

24 V strip in aluminium profile and opal diffuser, 3000 K, CRI 90+. Worktops typically 8-12 W/m; softer shelves 4-6 W/m. Accessible matched driver.



### Concealed ceiling-edge glow

Continuous diffused 24 V strip, 3000 K, CRI 90+, initial 6-10 W/m. Indirect light only; separate dimmer. Split long runs to driver limits.



### Mirror light

Diffused frontal light at the sides/top of mirror, CRI 90+, 3000 K. A rear halo is decorative and is not a substitute for face light.



### Plain white ceiling fan

White BLDC fan, nominal 48 in in bedrooms/office; 48-52 in living subject to clearances. Wall on/off + supplied speed remote; no ordinary light dimmer.



### Low-level night light

Shielded, low-output 2200-2700 K LED at about 8 in AFFL; beam aimed at the floor. Bedroom and closet path on one bedside control group.



### Diffused linear ceiling light

White opal linear fitting. Eating counter: about 1200-1800 lm, dimmable. Store: about 1000-1400 lm, broad distribution; 3000 K.



### Shielded wall light

Stair: diffused downward light without exposed glare. Terrace: IP65 weather-resistant fitting, 3000 K, about 400-700 lm each.



### Emergency landing light

Self-contained maintained/automatic emergency fitting on permanent supply, with accessible test facility. Duration and coverage to local fire design.



### Exhaust fan

Quiet exhaust with backdraft protection, timer run-on and accessible isolation. Fan duty selected from room volume, duct losses and make-up air path.

Selection brief, not a lux calculation: target roughly 150-200 lux ambient, 300 lux bathroom face light, 300-500 lux desk/worktop.

# Switch and socket legend

Plain control names on the wall plates; mechanism types explained here.

|     |                                                                                                                                                                      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1W  | <b>One-way rocker</b><br>Ordinary on/off from one position. Specify a properly rated modular light switch (typically 10 AX).                                         |
| 2W  | <b>Two-way rocker</b><br>Two locations operate the SAME light group. A pair of 2-way mechanisms and traveller wiring is required.                                    |
| INT | <b>Intermediate rocker</b><br>Three or more conventional switching locations: 2-way switches at the two ends, intermediate mechanism between.                        |
| DIM | <b>LED master dimmer</b><br>One LED-compatible dimmer per group, sized for its LED load and driver. For PB duplicates, select a wired auxiliary-input model.         |
| PB  | <b>Momentary pushbutton</b><br>Spring-return button wired to the matching master dimmer. Short press on/off; hold dimming only where supported. Works without Wi-Fi. |

**One dimmer, several buttons**  
DIM is the master. PB duplicates its input. Never put two ordinary dimmers in series or assume a two-way rocker is a dimmer auxiliary.

|      |                                                                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DP   | <b>Double-pole isolator</b><br>Labelled maintenance isolation for geyser / AC / outdoor circuit. Rating selected to appliance nameplate; locate dry and reachable.                 |
| FS   | <b>Fan on/off supply</b><br>Separate switch plus supplied BLDC speed remote. Do not install a generic regulator unless the fan maker explicitly permits it.                        |
| S6   | <b>Everyday switched socket</b><br>Earthed shuttered 6 A outlet for chargers, lamps and electronics; double outlets where stated. USB-C is optional and replaceable.               |
| S16  | <b>Appliance switched socket</b><br>Earthed shuttered 16 A outlet where compatible with appliance plug/load. Dedicated circuit where shown; not a substitute for load calculation. |
| DATA | <b>Data / spare conduit</b><br>Cat6 in separate containment from mains, home-run to office network bay. Pull string and labelled endpoints in empty conduits.                      |

**Board drawings show functions, not box size**  
The electrician selects the modular plate width and back-box depth for the chosen brand. Allow neutral, earth and service space; engrave the plain labels shown.

Furniture shown in pale tone. Colour links identify one control group; they are not conduit routes.



MB-D1, MB-D2, MB-D3, MB-D4, MB-D5, MB-D6  
MB1 DIM, MB2 PB, MB3 PB

MB-P1

MB3 DIM

MB-A1

MB1 DIM

MB-F1  
MB1 1W

MB-N1  
MB2 2W, MB3 2W

+ 58 ft 9 1/4 in LED run  
MB1 DIM, MB2 PB, MB3 PB

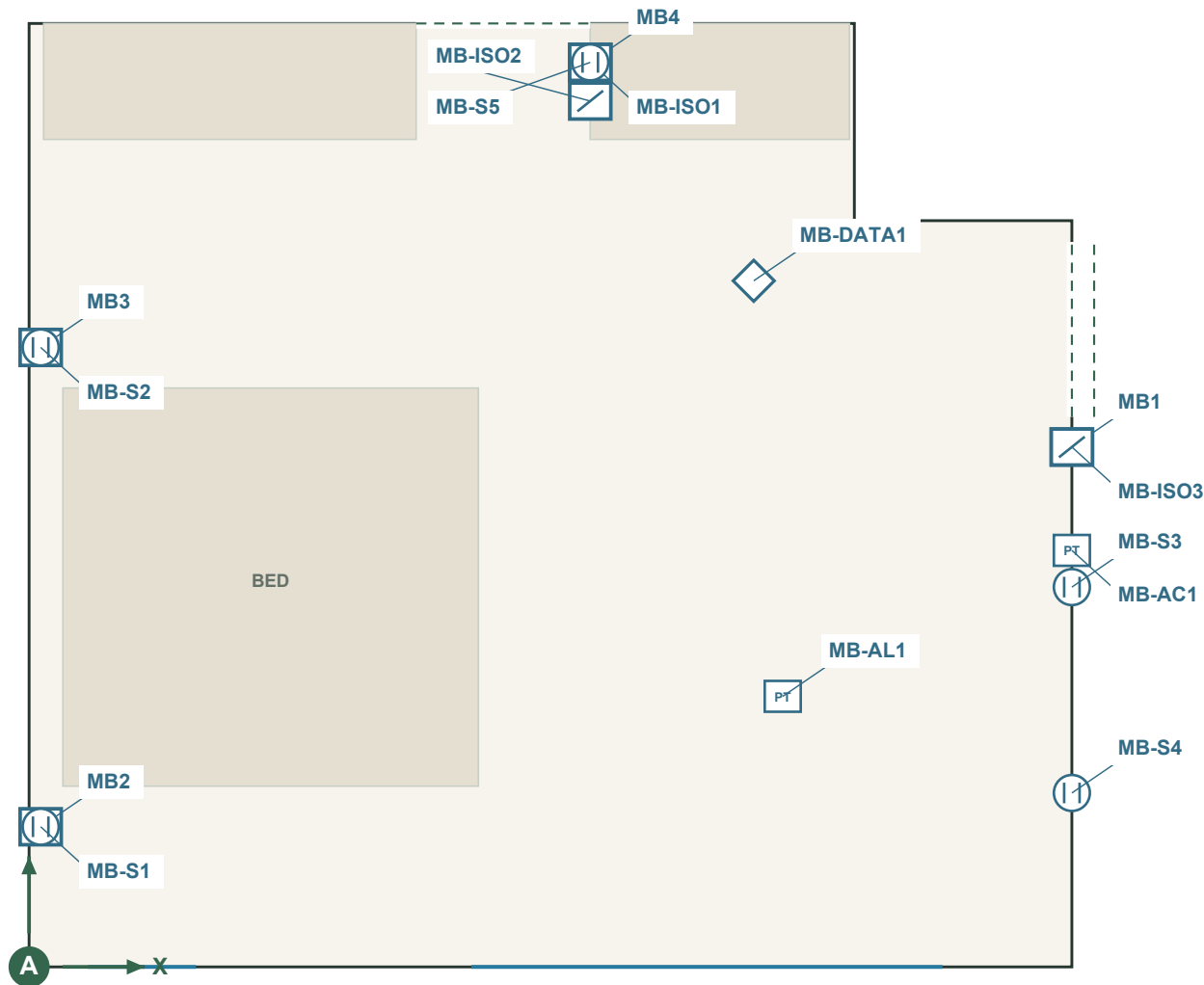
Full fitting legend: E02. Board types: E03. Dashed links show shared control, not cable routes.

Six ceiling lights stay in two balanced rows. The artwork wash follows the cabinet opposite the shifted bed; only cupboard-side bedside 6 has a pendant.

Entry and both bedsides control ceiling + cove. Bedside charging stays live when lights are off. Night-path light avoids turning on the full ceiling.

# Switchboards + power - Master bedroom

Board labels match the lighting key. Individual fitting and outlet details follow on the room schedule.



Each tag is detailed on the next room schedule: type, height, position and purpose.

### Power points / mounting heights

MB-ISO1: Geyser isolator (5 ft) | MB-ISO2: Exhaust isolator (5 ft) | MB-ISO3: AC isolator (5 ft) | MB-S1: Window-side bed sockets (2 ft 6 in) | MB-S2: Cupboard-side bed sockets (2 ft 6 in) | MB-S3: Cabinet socket (1 ft) | MB-S4: Reading / cleaner socket (1 ft) | MB-S5: Dressing socket (3 ft) | MB-AC1: AC cable provision (8 ft 9 in)

### SWITCHBOARD FACE / CONTROL TYPE

#### MB1 Master entry / 3 ft 9 in AFFL

|                             |                    |                       |
|-----------------------------|--------------------|-----------------------|
| <b>DIM</b><br>Ceiling       | <b>DIM</b><br>Cove | <b>DIM</b><br>Artwork |
| <b>2W</b><br>Closet ceiling | <b>1W</b><br>Fan   |                       |

#### MB2 Window-side bedside / 2 ft 6 in AFFL

|                      |                   |                         |
|----------------------|-------------------|-------------------------|
| <b>PB</b><br>Ceiling | <b>PB</b><br>Cove | <b>2W</b><br>Night path |
|----------------------|-------------------|-------------------------|

#### MB3 Cupboard-side bedside / 2 ft 6 in AFFL

|                         |                   |                       |
|-------------------------|-------------------|-----------------------|
| <b>PB</b><br>Ceiling    | <b>PB</b><br>Cove | <b>DIM</b><br>Pendant |
| <b>2W</b><br>Night path |                   |                       |

Modules are labelled by function. DP geyser/AC isolation is on a separate labelled dry plate. DIM + PB requires a compatible wired dimmer system.

### Installation coordination

Entry and both bedsides control ceiling + cove. Bedside charging stays live when lights are off. Night-path light avoids turning on the full ceiling.

# Setting-out - Master bedroom

Point centres, mounting heights, control locations and purpose. Heights are from finished tiles.

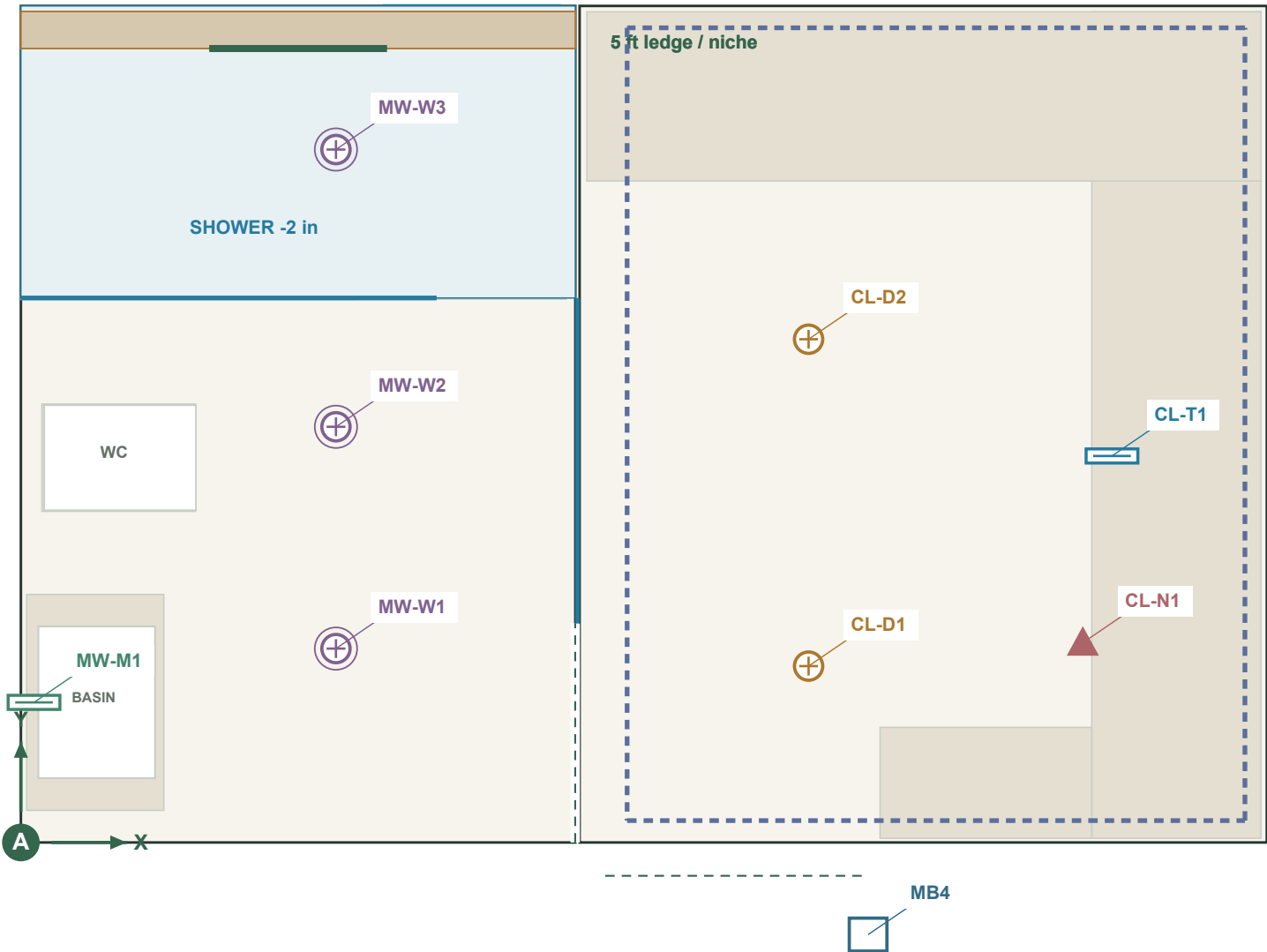
A = marked corner on the room plans. X = right; Y = up on this drawing (not compass axes). Z = height above tiles.

| TAG / TYPE | FITTING / POINT              | X FROM A       | Y FROM A        | Z / HEIGHT | CONTROL OR INSTALLATION INTENT                                                                                           |
|------------|------------------------------|----------------|-----------------|------------|--------------------------------------------------------------------------------------------------------------------------|
| MB-D1      | Bed ceiling light 1          | 3 ft 6 in      | 2 ft 6 in       | 10 ft      | MB1 DIM, MB2 PB, MB3 PB                                                                                                  |
| MB-D2      | Bed ceiling light 2          | 14 ft          | 2 ft 6 in       | 10 ft      | MB1 DIM, MB2 PB, MB3 PB                                                                                                  |
| MB-D3      | Bed ceiling light 3          | 3 ft 6 in      | 11 ft 6 in      | 10 ft      | MB1 DIM, MB2 PB, MB3 PB                                                                                                  |
| MB-D4      | Bed ceiling light 4          | 14 ft          | 11 ft 6 in      | 10 ft      | MB1 DIM, MB2 PB, MB3 PB                                                                                                  |
| MB-P1      | Bedside 6: hanging light     | 1 ft 3 3/8 in  | 10 ft 6 1/4 in  | 10 ft      | MB3 DIM; Z is ceiling feed, see hanging height detail.                                                                   |
| MB-A1      | Cabinet artwork light        | 14 ft          | 7 ft            | 10 ft      | MB1 DIM                                                                                                                  |
| MB-F1      | White ceiling fan            | 8 ft 1 5/8 in  | 7 ft 4 5/8 in   | 10 ft      | Independent slab fixing above ceiling; white BLDC, wall switch + speed remote.                                           |
| MB-DATA1   | Ceiling Wi-Fi cable          | 12 ft 3 5/8 in | 11 ft 7 3/4 in  | 10 ft      | Cat6 ceiling AP provision; no buried active radio                                                                        |
| MB-D5      | Middle ceiling: glazing row  | 8 ft 9 in      | 2 ft 6 in       | 10 ft      | MB1 DIM, MB2 PB, MB3 PB                                                                                                  |
| MB-D6      | Middle ceiling: wardrobe row | 8 ft 9 in      | 11 ft 6 in      | 10 ft      | MB1 DIM, MB2 PB, MB3 PB                                                                                                  |
| MB1        | Entrance switches            | 17 ft 8 1/2 in | 8 ft 9 7/8 in   | 3 ft 9 in  | Entry: bedroom ceiling / bedroom edge glow (separate dimming) / artwork / closet ceiling / fan.                          |
| MB2        | Window-side bed switches     | 2 3/8 in       | 2 ft 4 1/2 in   | 2 ft 6 in  | Bedroom ceiling, bedroom edge glow and night-path controls. No lamp at bedside 5; charging independent.                  |
| MB3        | Cupboard-side bed switches   | 2 3/8 in       | 10 ft 6 1/4 in  | 2 ft 6 in  | Bedroom ceiling, bedroom edge glow, bedside 6 pendant and night-path controls. Charging independent.                     |
| MB4        | Dry-passage switches         | 9 ft 6 3/8 in  | 15 ft 4 1/4 in  | 3 ft 9 in  | Dry passage: closet ceiling / closet edge glow with own dimmer / wardrobe task strips / bath ceiling / vanity / exhaust. |
| MB-ISO1    | Geyser isolator              | 9 ft 6 3/8 in  | 15 ft 4 1/4 in  | 5 ft       | Separate labelled geyser double-pole isolation / indicator                                                               |
| MB-ISO2    | Exhaust isolator             | 9 ft 6 3/8 in  | 14 ft 8 3/8 in  | 5 ft       | Bathroom exhaust maintenance isolation; timed run-on retained.                                                           |
| MB-ISO3    | AC isolator                  | 17 ft 8 1/2 in | 8 ft 9 7/8 in   | 5 ft       | Accessible AC double-pole isolation; dedicated circuit. Final rating follows selected unit.                              |
| MB-S1      | Window-side bed sockets      | 2 3/8 in       | 2 ft 4 1/2 in   | 2 ft 6 in  | 2 x S6 + optional USB-C; bedside charging, independent of lights.                                                        |
| MB-S2      | Cupboard-side bed sockets    | 2 3/8 in       | 10 ft 6 1/4 in  | 2 ft 6 in  | 2 x S6 + optional USB-C; keep clear of hanging-light drop.                                                               |
| MB-S3      | Cabinet socket               | 17 ft 8 1/2 in | 6 ft 5 3/8 in   | 1 ft       | 2 x S6 inside accessible artwork cabinet; no TV assumed.                                                                 |
| MB-S4      | Reading / cleaner socket     | 17 ft 8 1/2 in | 2 ft 11 3/8 in  | 1 ft       | 1 x S6 cleaner / reading socket.                                                                                         |
| MB-S5      | Dressing socket              | 9 ft 6 3/8 in  | 15 ft 4 1/4 in  | 3 ft       | 1 x S16 styling socket in DRY passage; no socket on glass.                                                               |
| MB-AC1     | AC cable provision           | 17 ft 8 1/2 in | 7 ft 0 7/8 in   | 8 ft 9 in  | Capped AC cable/conduit reservation behind future indoor unit. Power feed may terminate at outdoor unit, per model.      |
| MB-N1      | Bedroom night light          | 9 ft 7 3/4 in  | 13 ft 10 1/8 in | 7 7/8 in   | MB2 2W, MB3 2W                                                                                                           |
| MB-AL1     | Master bedroom smoke alarm   | 12 ft 9 1/2 in | 4 ft 7 1/8 in   | 10 ft      | Interlinked alarm provision; supplier verifies fan, curtain and wall clearances.                                         |

Socket quantities and appliance types are explicit here. Coordinates locate centres; final back-box sizes follow the selected switch range.

# Lighting - Master closet + bathroom

Furniture shown in pale tone. Colour links identify one control group; they are not conduit routes.



D = recessed | P = hanging | F = white fan | T/C = task/cove strip

Full fitting legend: E02. Board types: E03. Dashed links show shared control, not cable routes.

## WHAT TURNS ON TOGETHER

- Closet ceiling**
  - CL-D1, CL-D2
  - MB1 2W, MB4 2W
- Closet storage task**
  - CL-T1
  - MB4 1W
- Master bathroom ceiling**
  - MW-W1, MW-W2, MW-W3
  - MB4 1W
- Master mirror**
  - MW-M1
  - MB4 1W
- Night path**
  - CL-N1
  - MB2 2W, MB3 2W
- Closet cove**
  - + 31 ft 8 5/8 in LED run
  - MB4 DIM

### Why these positions

Two closet downlights light the clear aisle; strips light storage faces. Three sealed bathroom fittings follow basin, WC and shower, with frontal light at the basin mirror.

### Everyday use

All bathroom switches and geyser isolation are on the dry closet passage. Clear glass stays full height; no wiring box or switch is fixed to the glass.

Board labels match the lighting key. Individual fitting and outlet details follow on the room schedule.



# Setting-out - Master closet + bathroom

Point centres, mounting heights, control locations and purpose. Heights are from finished tiles.

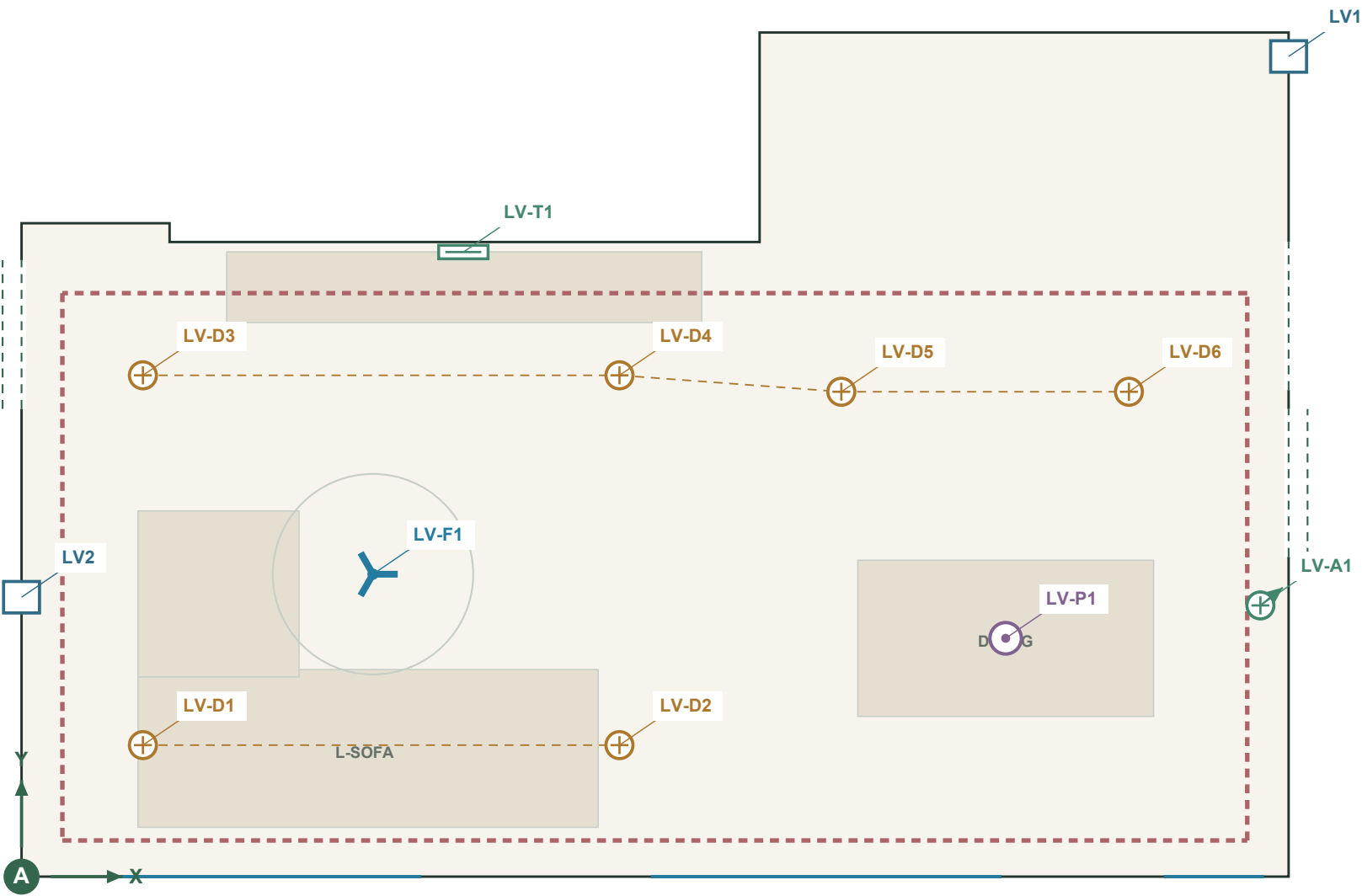
A = marked corner on the room plans. X = right; Y = up on this drawing (not compass axes). Z = height above tiles.

| TAG / TYPE | FITTING / POINT           | X FROM A        | Y FROM A       | Z / HEIGHT     | CONTROL OR INSTALLATION INTENT                                                                                           |
|------------|---------------------------|-----------------|----------------|----------------|--------------------------------------------------------------------------------------------------------------------------|
| CL-D1      | Closet entry light        | 8 ft 10 1/4 in  | 1 ft 11 3/4 in | 10 ft          | MB1 2W, MB4 2W                                                                                                           |
| CL-D2      | Closet storage light      | 8 ft 10 1/4 in  | 5 ft 7 7/8 in  | 10 ft          | MB1 2W, MB4 2W                                                                                                           |
| CL-T1      | Wardrobe task strips      | 12 ft 3 1/4 in  | 4 ft 4 1/8 in  | 7 ft 10 5/8 in | MB4 1W                                                                                                                   |
| MW-W1      | Basin-area ceiling light  | 3 ft 6 1/2 in   | 2 ft 2 1/8 in  | 10 ft          | MB4 1W                                                                                                                   |
| MW-W2      | WC-area ceiling light     | 3 ft 6 1/2 in   | 4 ft 8 1/8 in  | 10 ft          | MB4 1W                                                                                                                   |
| MW-W3      | Shower ceiling light      | 3 ft 6 1/2 in   | 7 ft 9 1/2 in  | 10 ft          | MB4 1W                                                                                                                   |
| MW-M1      | Bathroom mirror light     | 1 3/4 in        | 1 ft 6 7/8 in  | 5 ft 4 5/8 in  | MB4 1W                                                                                                                   |
| MW-X1      | Bathroom exhaust fan      | 5 ft 7 1/8 in   | 9 ft 4 7/8 in  | 8 ft 10 1/2 in | Bathroom exhaust in existing rear ventilator                                                                             |
| CL-N1      | Closet night light        | 11 ft 11 1/4 in | 2 ft 3 in      | 7 7/8 in       | MB2 2W, MB3 2W                                                                                                           |
| MW-FIX1    | Master geyser capped feed | 1 in            | 2 ft 3 3/4 in  | 8 ft 1 1/4 in  | Fixed earthed geyser feed in high service bay; dedicated circuit via dry-side DP isolator. No plug socket in bathroom.   |
| CL-AP1     | LED-driver access         | 8 ft 10 1/4 in  | 3 ft 7 1/2 in  | 10 ft          | 12 in nominal dry ceiling hatch for ventilated, labelled LED drivers. Keep serviceable; never seal drivers in plaster.   |
| MB4        | Dry-passage switches      | 9 ft 6 3/8 in   | -1 ft 0 3/8 in | 3 ft 9 in      | Dry passage: closet ceiling / closet edge glow with own dimmer / wardrobe task strips / bath ceiling / vanity / exhaust. |
| MB-ISO1    | Geyser isolator           | 9 ft 6 3/8 in   | -1 ft 0 3/8 in | 5 ft           | Separate labelled geyser double-pole isolation / indicator                                                               |
| MB-ISO2    | Exhaust isolator          | 9 ft 6 3/8 in   | -1 ft 8 1/4 in | 5 ft           | Bathroom exhaust maintenance isolation; timed run-on retained.                                                           |
| MB-S5      | Dressing socket           | 9 ft 6 3/8 in   | -1 ft 0 3/8 in | 3 ft           | 1 x S16 styling socket in DRY passage; no socket on glass.                                                               |

Socket quantities and appliance types are explicit here. Coordinates locate centres; final back-box sizes follow the selected switch range.

# Lighting - Living + dining

Furniture shown in pale tone. Colour links identify one control group; they are not conduit routes.



## WHAT TURNS ON TOGETHER

- Living ceiling**  
LV-D1, LV-D2, LV-D3, LV-D4, LV-D5, LV-D6  
LV1 DIM, LV2 PB
- Living fan**  
LV-F1  
LV1 1W
- Dining pendant**  
LV-P1  
LV1 DIM
- TV + painting accents**  
LV-A1, LV-T1  
LV1 DIM, LV2 PB
- Living cove**  
+ 69 ft 1 7/8 in LED run  
LV1 DIM, LV2 PB

D = recessed | P = hanging | F = white fan | T/C = task/cove strip

Full fitting legend: E02. Board types: E03. Dashed links show shared control, not cable routes.

### Why these positions

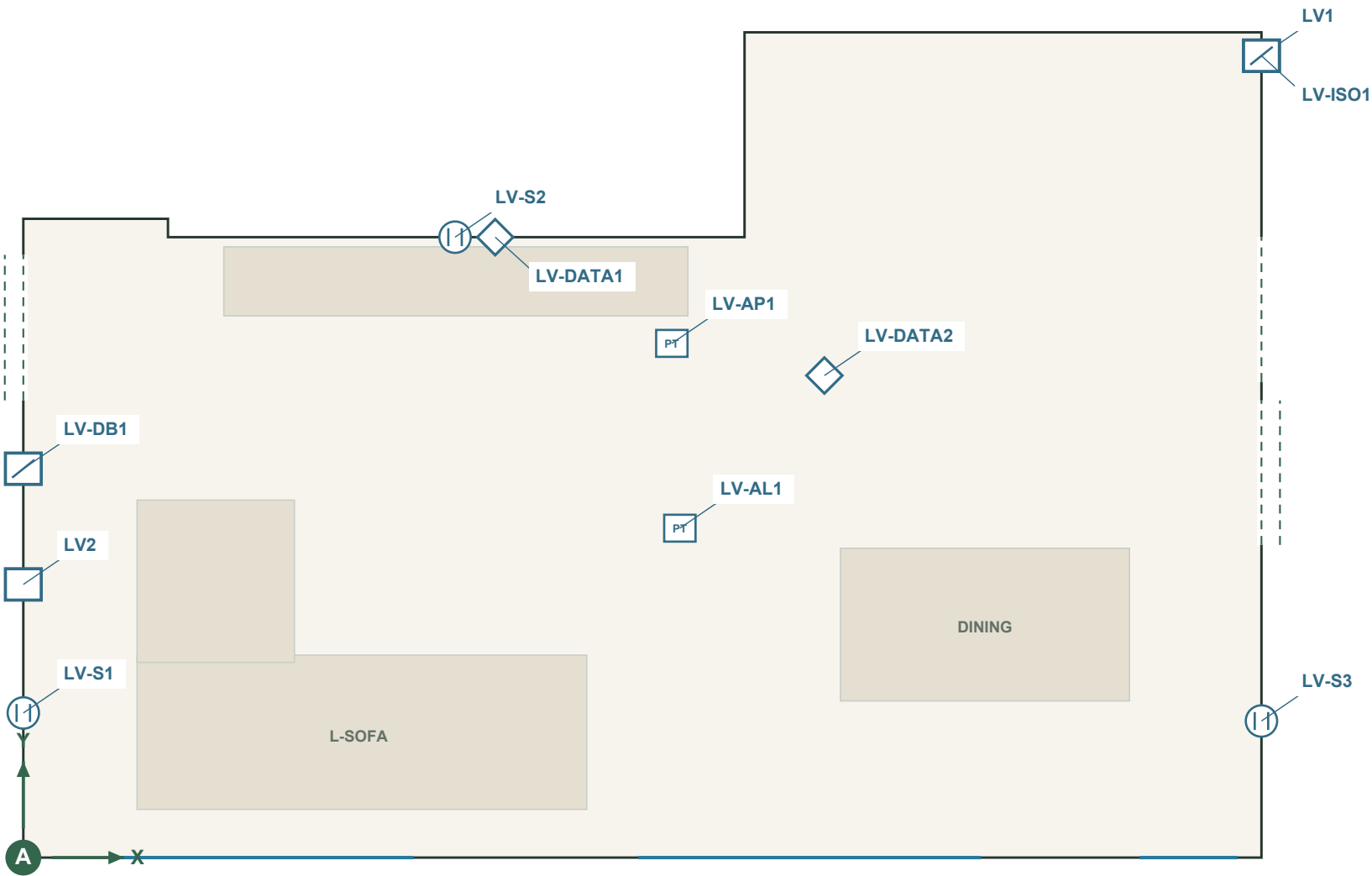
Six recessed lights frame seating and circulation. One statement pendant is centred on the dining table. TV niches and painting are softly lit, with cove on its own dimmer.

### Everyday use

Entry controls sit beyond the main slider parking zone. Sofa controls duplicate the main light scenes. TV / PlayStation supplies and data are at the media cabinet.

# Switchboards + power - Living + dining

Board labels match the lighting key. Individual fitting and outlet details follow on the room schedule.



Each tag is detailed on the next room schedule: type, height, position and purpose.

## Power points / mounting heights

LV-S1: Sofa charging (1 ft 11 5/8 in) | LV-S2: TV / PlayStation power (1 ft 11 5/8 in) | LV-S3: Dining / cleaner socket (1 ft) | LV-ISO1: Outdoor socket indoor isolator (5 ft)

## SWITCHBOARD FACE / CONTROL TYPE

### LV1 Living main entry / 3 ft 9 in AFFL

|                        |                    |                      |
|------------------------|--------------------|----------------------|
| <b>DIM</b><br>Ceiling  | <b>DIM</b><br>Cove | <b>DIM</b><br>Dining |
| <b>DIM</b><br>TV / art | <b>1W</b><br>Fan   | <b>2W</b><br>Terrace |

### LV2 Sofa-side / 3 ft AFFL

|                      |                   |                       |
|----------------------|-------------------|-----------------------|
| <b>PB</b><br>Ceiling | <b>PB</b><br>Cove | <b>PB</b><br>TV / art |
|----------------------|-------------------|-----------------------|

Modules are labelled by function. DP geyser/AC isolation is on a separate labelled dry plate. DIM + PB requires a compatible wired dimmer system.

## Installation coordination

Entry controls sit beyond the main slider parking zone. Sofa controls duplicate the main light scenes. TV / PlayStation supplies and data are at the media cabinet.

# Setting-out - Living + dining

Point centres, mounting heights, control locations and purpose. Heights are from finished tiles.

A = marked corner on the room plans. X = right; Y = up on this drawing (not compass axes). Z = height above tiles.

| TAG / TYPE | FITTING / POINT                 | X FROM A        | Y FROM A       | Z / HEIGHT     | CONTROL OR INSTALLATION INTENT                                                                                                     |
|------------|---------------------------------|-----------------|----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------|
| LV-D1      | Ceiling light 1                 | 2 ft 5 1/8 in   | 2 ft 7 1/2 in  | 10 ft          | LV1 DIM, LV2 PB                                                                                                                    |
| LV-D2      | Ceiling light 2                 | 11 ft 11 1/4 in | 2 ft 7 1/2 in  | 10 ft          | LV1 DIM, LV2 PB                                                                                                                    |
| LV-D3      | Ceiling light 3                 | 2 ft 5 1/8 in   | 10 ft 0 1/8 in | 10 ft          | LV1 DIM, LV2 PB                                                                                                                    |
| LV-D4      | Ceiling light 4                 | 11 ft 11 1/4 in | 10 ft 0 1/8 in | 10 ft          | LV1 DIM, LV2 PB                                                                                                                    |
| LV-D5      | Ceiling light 5                 | 16 ft 4 3/8 in  | 9 ft 8 1/8 in  | 10 ft          | LV1 DIM, LV2 PB                                                                                                                    |
| LV-D6      | Ceiling light 6                 | 22 ft 1 1/4 in  | 9 ft 8 1/8 in  | 10 ft          | LV1 DIM, LV2 PB                                                                                                                    |
| LV-F1      | White living fan                | 7 ft 0 1/4 in   | 6 ft 0 1/2 in  | 10 ft          | Independent slab fixing above ceiling; white BLDC, wall switch + speed remote.                                                     |
| LV-P1      | Dining statement pendant        | 19 ft 7 3/4 in  | 4 ft 9 1/8 in  | 10 ft          | LV1 DIM; Z is ceiling feed, see hanging height detail.                                                                             |
| LV-A1      | Dining painting wash            | 24 ft 8 3/4 in  | 5 ft 5 in      | 10 ft          | LV1 DIM, LV2 PB                                                                                                                    |
| LV-T1      | TV niches and cabinet glow      | 8 ft 9 7/8 in   | 12 ft 5 5/8 in | 7 ft 10 1/2 in | LV1 DIM, LV2 PB                                                                                                                    |
| LV1        | Main living controls            | 25 ft 3 1/2 in  | 16 ft 4 1/2 in | 3 ft 9 in      | On fixed kitchen-end return AFTER the main slider parking ends at Y=4.867 m. General / glow / dining / accent / fan / terrace.     |
| LV2        | Sofa-side controls              | -0 in           | 5 ft 6 7/8 in  | 3 ft           | Reachable side wall; ceiling / glow / TV scene. Single compatible dimmer system, not dimmers in series.                            |
| LV-S1      | Sofa charging                   | -0 in           | 2 ft 11 3/8 in | 1 ft 11 5/8 in | 2 x S6 at sofa end; no lead crossing the walkway.                                                                                  |
| LV-S2      | TV / PlayStation power          | 8 ft 9 7/8 in   | 12 ft 8 in     | 1 ft 11 5/8 in | 4 x S6 in ventilated TV / PlayStation cabinet; accessible service bay.                                                             |
| LV-DATA1   | TV data / conduit               | 9 ft 7 3/4 in   | 12 ft 8 in     | 1 ft 11 5/8 in | Two Cat6 runs + empty draw-string conduit to screen; separate power and signal paths.                                              |
| LV-S3      | Dining / cleaner socket         | 25 ft 3 1/2 in  | 2 ft 9 1/2 in  | 1 ft           | 1 x S6 cleaner socket, clear of slider parking.                                                                                    |
| LV-DATA2   | Living ceiling Wi-Fi provision  | 16 ft 4 3/8 in  | 9 ft 10 1/8 in | 10 ft          | Retained Cat6 location; fit a white PoE access point only after coverage check.                                                    |
| LV-AL1     | Hall smoke alarm                | 13 ft 5 in      | 6 ft 8 3/4 in  | 10 ft          | Interlinked alarm provision; final type/spacing and kitchen separation by supplier.                                                |
| LV-DB1     | Second-floor distribution board | -0 in           | 7 ft 11 1/4 in | 5 ft           | Proposed dry fixed wall beside master entry, clear of door swing/slider. Surface service enclosure; no structural recess. Front... |
| LV-AP1     | LED-driver access               | 13 ft 3 in      | 10 ft 6 in     | 10 ft          | 12 in nominal dry ceiling hatch for ventilated, labelled LED drivers. Keep serviceable; never seal drivers in plaster.             |
| LV-ISO1    | Outdoor socket indoor isolator  | 25 ft 3 1/2 in  | 16 ft 4 1/2 in | 5 ft           | Labelled DP isolation on dry indoor main-entry pier, separate plate above LV1.                                                     |

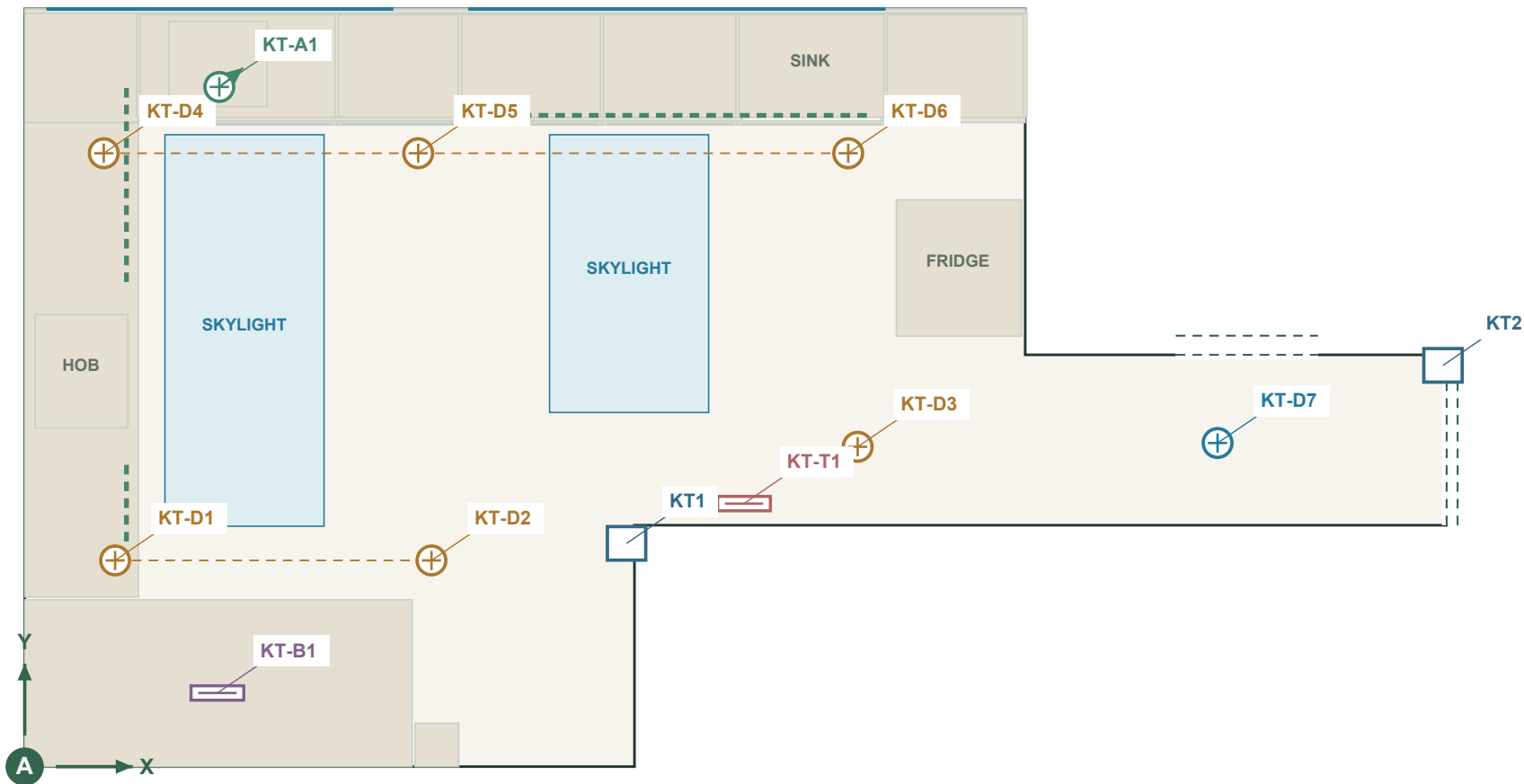
Socket quantities and appliance types are explicit here. Coordinates locate centres; final back-box sizes follow the selected switch range.

# Lighting - Kitchen + store passage

Furniture shown in pale tone. Colour links identify one control group; they are not conduit routes.

## WHAT TURNS ON TOGETHER

- Kitchen ceiling**  
KT-D1, KT-D2, KT-D3, KT-D4, KT-D5, KT-D6  
KT1 1W
- Store passage**  
KT-D7  
KT1 2W, KT2 2W
- Eating counter**  
KT-B1  
KT1 DIM
- Worktop task**  
KT-A1 + 11 ft 4 1/4 in LED run  
KT1 1W
- Crockery lighting**  
KT-T1  
KT1 1W



D = recessed | P = hanging | F = white fan | T/C = task/cove strip

Full fitting legend: E02. Board types: E03. Dashed links show shared control, not cable routes.

### Why these positions

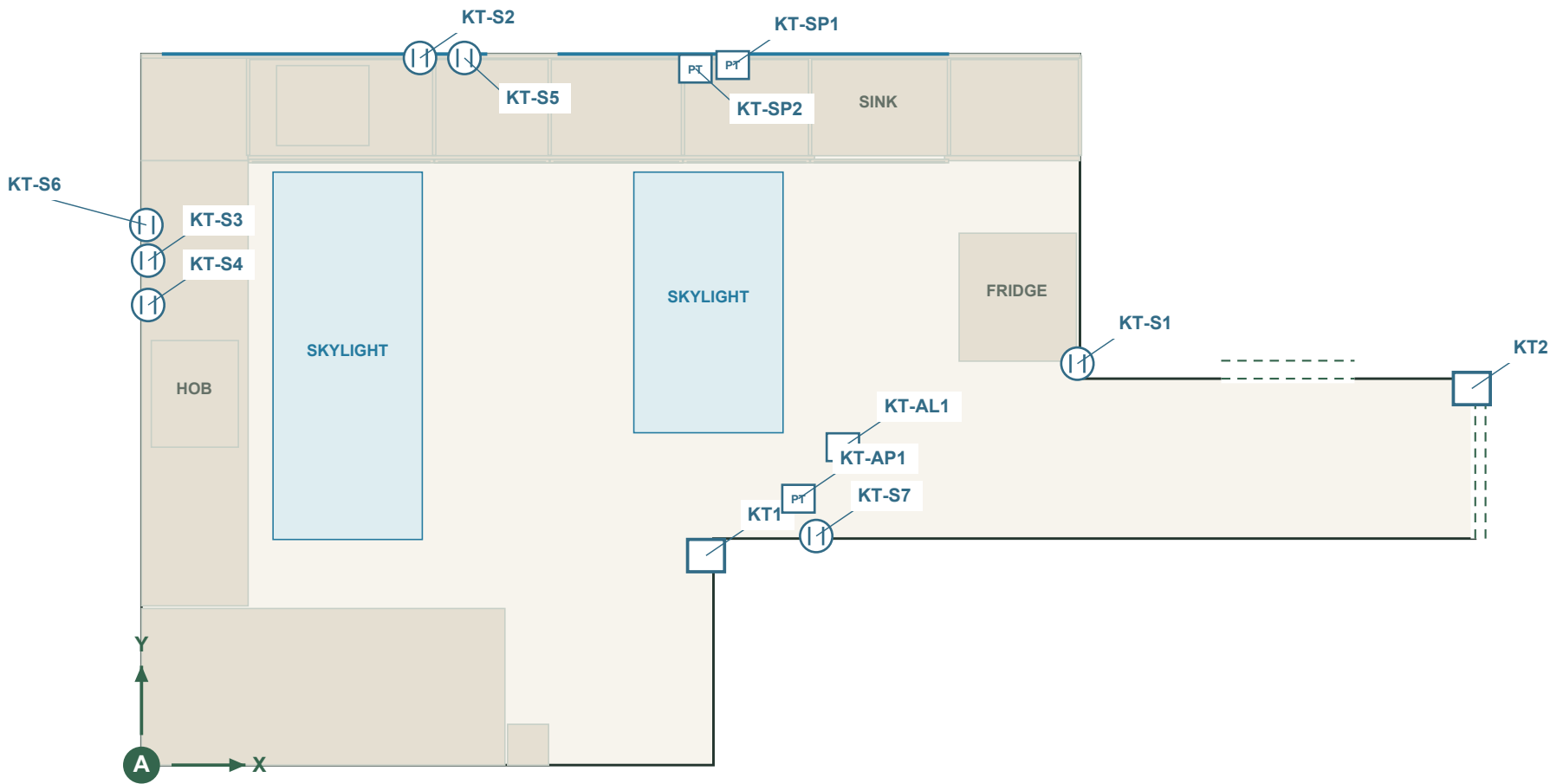
Ceiling lights avoid both skylights. Task strips are at the front of the upper units; the hood interrupts the south cooking strip. A slim linear fitting lights the open eating counter.

### Everyday use

The passage light has two-way switches at its two ends. Separate worktop, sink/prep, eating and display controls. Countertop sockets stay away from the sink and hob.

# Switchboards + power - Kitchen + store passage

Board labels match the lighting key. Individual fitting and outlet details follow on the room schedule.



Each tag is detailed on the next room schedule: type, height, position and purpose.

## Power points / mounting heights

KT-S1: Fridge supply + isolation (1 ft 5 3/4 in) | KT-S2: Microwave socket (3 ft 10 1/2 in) | KT-S3: Gas-hob ignition (1 ft 5 3/4 in) | KT-S4: Chimney supply (7 ft 8 1/2 in) | KT-S5: Preparation socket pair (3 ft 10 1/2 in) | KT-S6: Cooking-side socket pair (3 ft 10 1/2 in) | KT-S7: Crockery / small-appliance pair (3 ft 9 1/4 in) | KT-SP1: Water-purifier spare supply (1 ft 11 5/8 in) | KT-SP2: Dishwasher spare conduit (1 ft 5 3/4 in)

## SWITCHBOARD FACE / CONTROL TYPE

### KT1 Kitchen entrance / 3 ft 9 in AFFL

|                       |                       |                              |
|-----------------------|-----------------------|------------------------------|
| <b>1W</b><br>Ceiling  | <b>1W</b><br>Worktops | <b>DIM</b><br>Eating counter |
| <b>1W</b><br>Crockery | <b>2W</b><br>Passage  |                              |

### KT2 Passage far end / 3 ft 9 in AFFL

|                      |
|----------------------|
| <b>2W</b><br>Passage |
|----------------------|

Modules are labelled by function. DP geyser/AC isolation is on a separate labelled dry plate. DIM + PB requires a compatible wired dimmer system.

## Installation coordination

The passage light has two-way switches at its two ends. Separate worktop, sink/prep, eating and display controls. Countertop sockets stay away from the sink and hob.

# Setting-out - Kitchen + store passage

Point centres, mounting heights, control locations and purpose. Heights are from finished tiles.

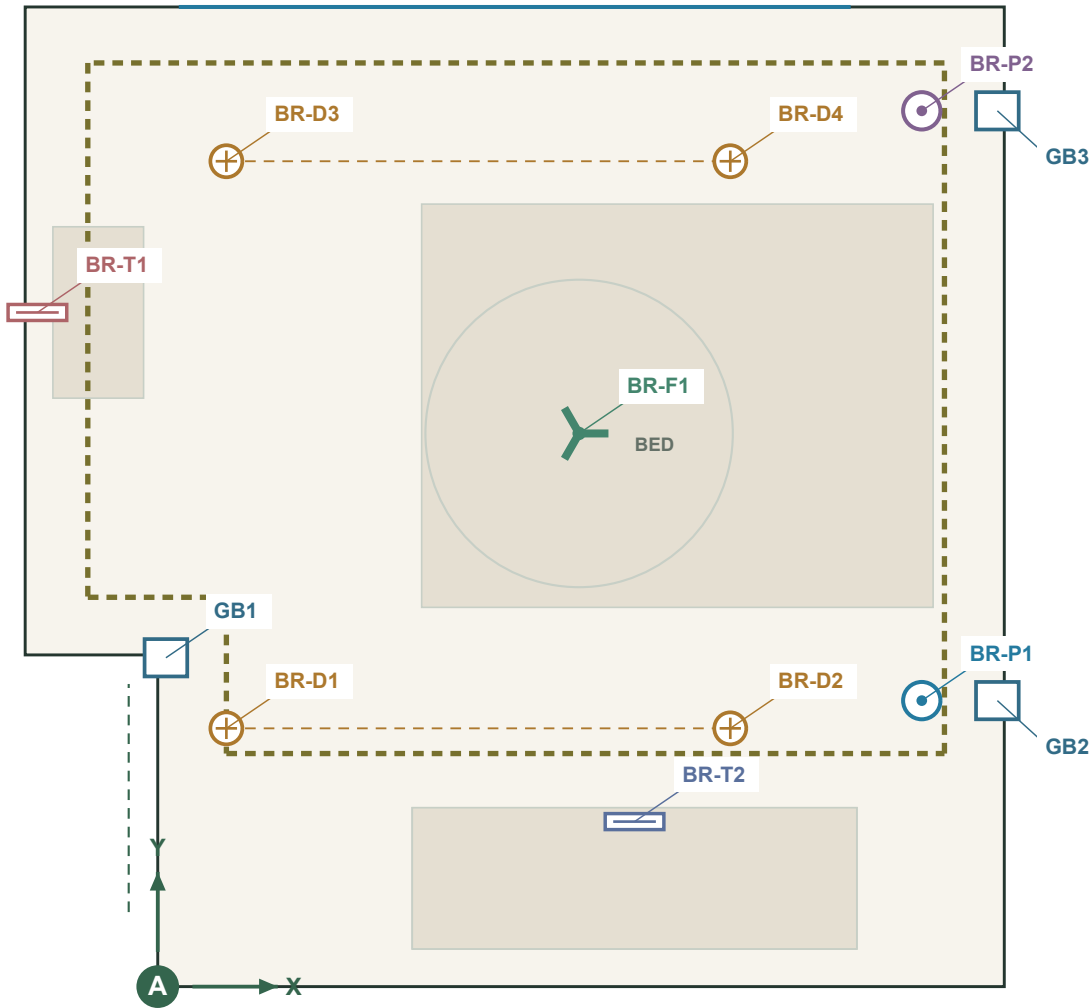
A = marked corner on the room plans. X = right; Y = up on this drawing (not compass axes). Z = height above tiles.

| TAG / TYPE | FITTING / POINT                 | X FROM A        | Y FROM A        | Z / HEIGHT     | CONTROL OR INSTALLATION INTENT                                                                                         |
|------------|---------------------------------|-----------------|-----------------|----------------|------------------------------------------------------------------------------------------------------------------------|
| KT-D1      | Ceiling light 1                 | 1 ft 6 3/4 in   | 3 ft 6 7/8 in   | 10 ft          | KT1 1W                                                                                                                 |
| KT-D2      | Ceiling light 2                 | 7 ft 0 1/2 in   | 3 ft 6 7/8 in   | 10 ft          | KT1 1W                                                                                                                 |
| KT-D3      | Ceiling light 3                 | 14 ft 5 1/8 in  | 5 ft 6 1/2 in   | 10 ft          | KT1 1W                                                                                                                 |
| KT-D4      | Ceiling light 4                 | 1 ft 4 3/8 in   | 10 ft 7 1/2 in  | 10 ft          | KT1 1W                                                                                                                 |
| KT-D5      | Ceiling light 5                 | 6 ft 9 3/4 in   | 10 ft 7 1/2 in  | 10 ft          | KT1 1W                                                                                                                 |
| KT-D6      | Ceiling light 6                 | 14 ft 3 1/8 in  | 10 ft 7 1/2 in  | 10 ft          | KT1 1W                                                                                                                 |
| KT-D7      | Ceiling light 7                 | 20 ft 7 7/8 in  | 5 ft 7 1/4 in   | 10 ft          | KT1 2W, KT2 2W                                                                                                         |
| KT-B1      | Eating-counter light            | 3 ft 4 in       | 1 ft 3 1/4 in   | 10 ft          | KT1 DIM                                                                                                                |
| KT-A1      | Large-window preparation light  | 3 ft 4 1/2 in   | 11 ft 9 1/4 in  | 10 ft          | KT1 1W                                                                                                                 |
| KT-T1      | Crockery display task light     | 12 ft 5 1/2 in  | 4 ft 6 5/8 in   | 5 ft 1 in      | KT1 1W                                                                                                                 |
| KT1        | Kitchen entry controls          | 10 ft 5 1/8 in  | 3 ft 10 3/8 in  | 3 ft 9 in      | Fixed kitchen-facing end lining, not moving slider panel; ceiling / task / counter / crockery.                         |
| KT2        | Passage return switch           | 24 ft 6 3/4 in  | 6 ft 11 3/8 in  | 3 ft 9 in      | Store/laundry approach; two-way control of passage ceiling light.                                                      |
| KT-S1      | Fridge supply + isolation       | 17 ft 3 3/8 in  | 7 ft 4 7/8 in   | 1 ft 5 3/4 in  | 1 x S16, dedicated fridge circuit; accessible adjacent service pocket, not trapped behind fridge.                      |
| KT-S2      | Microwave socket                | 5 ft 1 3/4 in   | 13 ft 0 5/8 in  | 3 ft 10 1/2 in | 1 x S16, dedicated microwave supply; above worktop and away from sink.                                                 |
| KT-S3      | Gas-hob ignition                | 1 1/2 in        | 9 ft 3 3/4 in   | 1 ft 5 3/4 in  | 1 x S6 in adjacent dry cabinet for ignition; away from gas pipe and hob heat.                                          |
| KT-S4      | Chimney supply                  | 1 1/2 in        | 8 ft 5 7/8 in   | 7 ft 8 1/2 in  | 1 x S6 accessible above/alongside hood; not in the hot duct.                                                           |
| KT-S5      | Preparation socket pair         | 5 ft 11 1/2 in  | 13 ft 0 5/8 in  | 3 ft 10 1/2 in | 2 x S16 worktop A; 1 ft or more from sink edge in this proposal.                                                       |
| KT-S6      | Cooking-side socket pair        | 1 1/8 in        | 9 ft 11 5/8 in  | 3 ft 10 1/2 in | 2 x S16 worktop B; set clear of hob splash/heat zone.                                                                  |
| KT-S7      | Crockery / small-appliance pair | 12 ft 5 1/2 in  | 4 ft 2 3/4 in   | 3 ft 9 1/4 in  | 2 x S16 on the wide crockery bay; do not narrow the store passage.                                                     |
| KT-SP1     | Water-purifier spare supply     | 10 ft 11 in     | 12 ft 11 1/8 in | 1 ft 11 5/8 in | EMPTY capped conduit only, no live socket; dry removable side pocket beside sink cabinet.                              |
| KT-SP2     | Dishwasher spare conduit        | 10 ft 2 3/4 in  | 12 ft 10 1/4 in | 1 ft 5 3/4 in  | EMPTY capped conduit only; no dishwasher or cabinet change assumed.                                                    |
| KT-AL1     | Kitchen heat-alarm feed         | 12 ft 11 3/8 in | 5 ft 10 3/8 in  | 10 ft          | Heat alarm rather than smoke alarm beside cooking; compatible interlink, manufacturer siting.                          |
| KT-AP1     | LED-driver access               | 12 ft 1 1/2 in  | 4 ft 11 in      | 10 ft          | 12 in nominal dry ceiling hatch for ventilated, labelled LED drivers. Keep serviceable; never seal drivers in plaster. |

Socket quantities and appliance types are explicit here. Coordinates locate centres; final back-box sizes follow the selected switch range.

# Lighting - Bedroom 2

Furniture shown in pale tone. Colour links identify one control group; they are not conduit routes.



## WHAT TURNS ON TOGETHER

- Bedroom 2 ceiling**  
BR-D1, BR-D2, BR-D3, BR-D4  
GB1 DIM, GB2 PB, GB3 PB
- Bedside pendant 1**  
BR-P1  
GB2 DIM
- Bedside pendant 2**  
BR-P2  
GB3 DIM
- Guest fan**  
BR-F1  
GB1 1W
- Guest desk task**  
BR-T1  
Local desk switch
- Guest wardrobe**  
BR-T2  
GB1 1W
- Bedroom 2 cove**  
+ 40 ft 3 1/2 in LED run  
GB1 DIM, GB2 PB, GB3 PB

D = recessed | P = hanging | F = white fan | T/C = task/cove strip

Full fitting legend: E02. Board types: E03. Dashed links show shared control, not cable routes.

### Why these positions

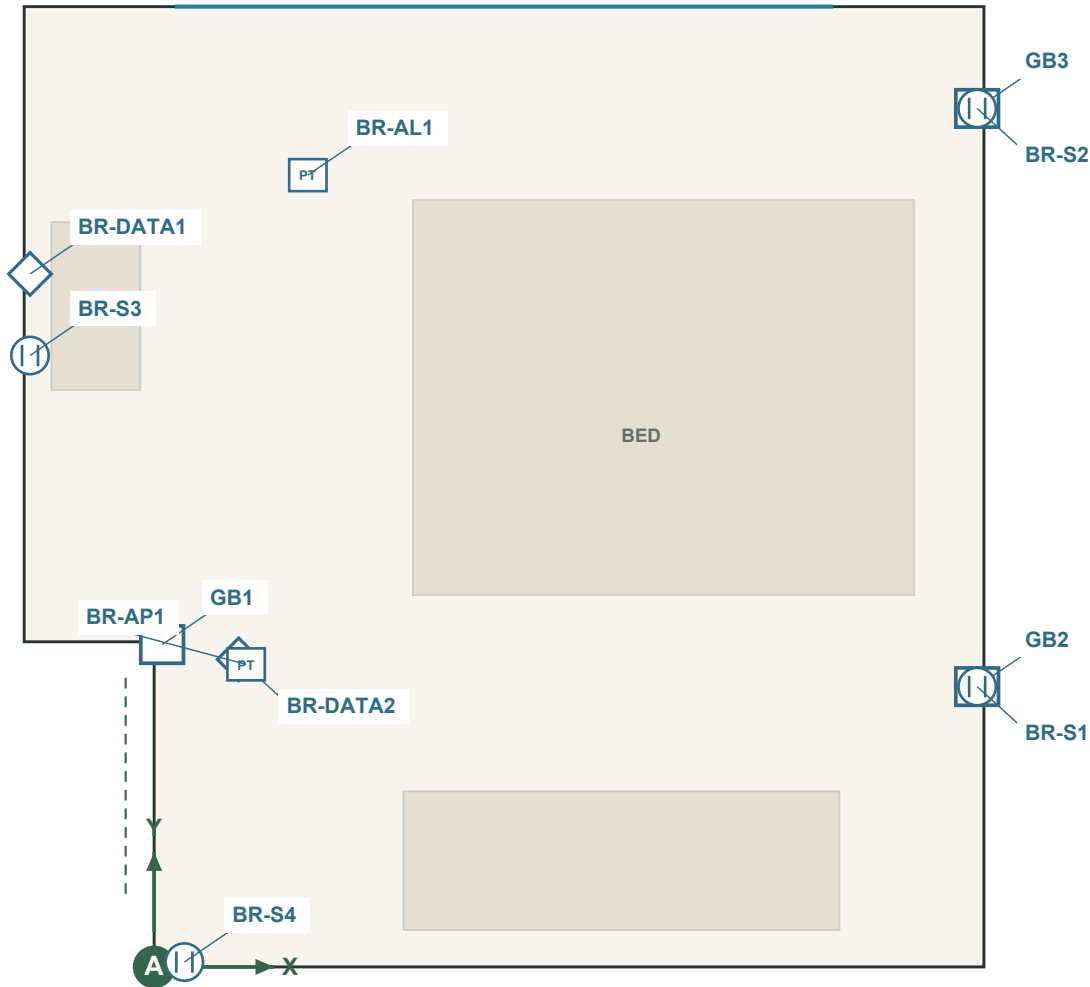
Four ceiling lights form a quiet rectangle clear of the fan. Two bedside pendants remain independent. The desk opposite the bed has useful task light; wardrobe strips light inside storage.

### Everyday use

Both bedsides and entry control ceiling + cove. Keep charging independent of pendant switches. No bedroom TV or dressing mirror is added.

# Switchboards + power - Bedroom 2

Board labels match the lighting key. Individual fitting and outlet details follow on the room schedule.



Each tag is detailed on the next room schedule: type, height, position and purpose.

## Power points / mounting heights

BR-S1: Bedside charging 1 (2 ft 6 3/4 in) | BR-S2: Bedside charging 2 (2 ft 6 3/4 in) | BR-S3: Work desk power (3 ft 1 3/8 in) | BR-S4: Bedroom cleaner socket (1 ft)

## SWITCHBOARD FACE / CONTROL TYPE

### GB1 Bedroom 2 entrance / 3 ft 9 in AFFL

|                       |                    |                                |
|-----------------------|--------------------|--------------------------------|
| <b>DIM</b><br>Ceiling | <b>DIM</b><br>Cove | <b>1W</b><br>Wardrobe override |
| <b>1W</b><br>Fan      |                    |                                |

### GB2 Bedroom 2 bedside 1 / 2 ft 6 3/4 in AFFL

|                      |                   |                       |
|----------------------|-------------------|-----------------------|
| <b>PB</b><br>Ceiling | <b>PB</b><br>Cove | <b>DIM</b><br>Pendant |
|----------------------|-------------------|-----------------------|

### GB3 Bedroom 2 bedside 2 / 2 ft 6 3/4 in AFFL

|                      |                   |                       |
|----------------------|-------------------|-----------------------|
| <b>PB</b><br>Ceiling | <b>PB</b><br>Cove | <b>DIM</b><br>Pendant |
|----------------------|-------------------|-----------------------|

Modules are labelled by function. DP geyser/AC isolation is on a separate labelled dry plate. DIM + PB requires a compatible wired dimmer system.

## Installation coordination

Both bedsides and entry control ceiling + cove. Keep charging independent of pendant switches. No bedroom TV or dressing mirror is added.

# Setting-out - Bedroom 2

Point centres, mounting heights, control locations and purpose. Heights are from finished tiles.

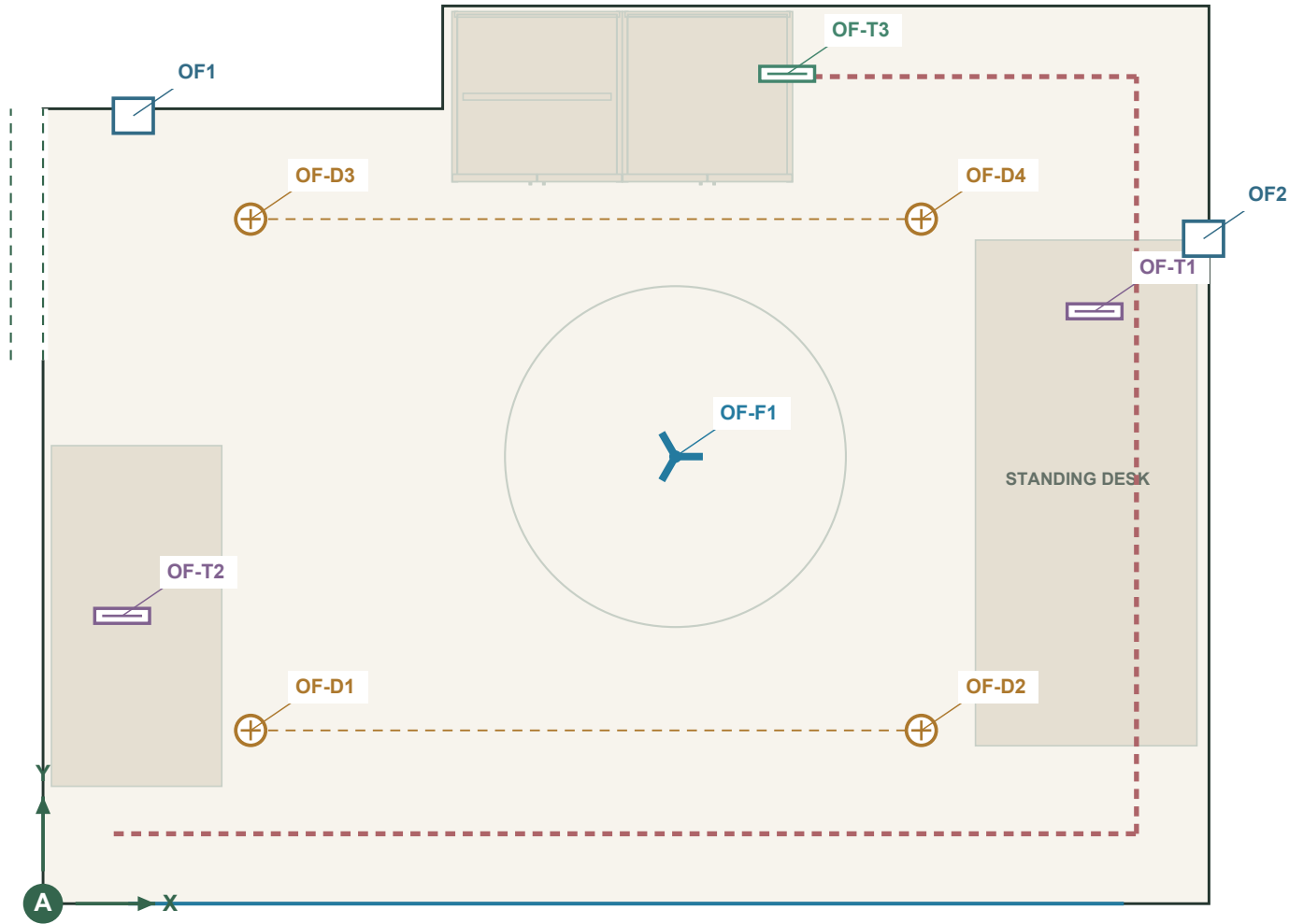
A = marked corner on the room plans. X = right; Y = up on this drawing (not compass axes). Z = height above tiles.

| TAG / TYPE | FITTING / POINT          | X FROM A        | Y FROM A       | Z / HEIGHT     | CONTROL OR INSTALLATION INTENT                                                                                         |
|------------|--------------------------|-----------------|----------------|----------------|------------------------------------------------------------------------------------------------------------------------|
| BR-D1      | Ceiling light 1          | 10 3/4 in       | 3 ft 4 3/8 in  | 10 ft          | GB1 DIM, GB2 PB, GB3 PB                                                                                                |
| BR-D2      | Ceiling light 2          | 7 ft 5 1/2 in   | 3 ft 4 3/8 in  | 10 ft          | GB1 DIM, GB2 PB, GB3 PB                                                                                                |
| BR-D3      | Ceiling light 3          | 10 3/4 in       | 10 ft 8 7/8 in | 10 ft          | GB1 DIM, GB2 PB, GB3 PB                                                                                                |
| BR-D4      | Ceiling light 4          | 7 ft 5 1/2 in   | 10 ft 8 7/8 in | 10 ft          | GB1 DIM, GB2 PB, GB3 PB                                                                                                |
| BR-P1      | Bedside pendant 1        | 9 ft 11 3/8 in  | 3 ft 8 5/8 in  | 10 ft          | GB2 DIM; Z is ceiling feed, see hanging height detail.                                                                 |
| GB2        | Bedside controls 1       | 10 ft 11 1/4 in | 3 ft 8 5/8 in  | 2 ft 6 3/4 in  | General + edge glow + own pendant; sockets remain independently live.                                                  |
| BR-S1      | Bedside charging 1       | 10 ft 11 1/4 in | 3 ft 8 5/8 in  | 2 ft 6 3/4 in  | 2 x S6 + optional USB-C above bedside surface.                                                                         |
| BR-P2      | Bedside pendant 2        | 9 ft 11 3/8 in  | 11 ft 4 3/4 in | 10 ft          | GB3 DIM; Z is ceiling feed, see hanging height detail.                                                                 |
| GB3        | Bedside controls 2       | 10 ft 11 1/4 in | 11 ft 4 3/4 in | 2 ft 6 3/4 in  | General + edge glow + own pendant; sockets remain independently live.                                                  |
| BR-S2      | Bedside charging 2       | 10 ft 11 1/4 in | 11 ft 4 3/4 in | 2 ft 6 3/4 in  | 2 x S6 + optional USB-C above bedside surface.                                                                         |
| BR-F1      | White bedroom fan        | 5 ft 5 7/8 in   | 7 ft 2 3/8 in  | 10 ft          | Independent slab fixing above ceiling; white BLDC, wall switch + speed remote.                                         |
| BR-T1      | Desk task light          | -1 ft 6 3/4 in  | 8 ft 9 1/4 in  | 4 ft 10 1/4 in | Local desk switch                                                                                                      |
| BR-T2      | Wardrobe task strip      | 6 ft 2 1/2 in   | 2 ft 1 3/4 in  | 7 ft 11 1/4 in | GB1 1W                                                                                                                 |
| GB1        | Bedroom 2 entry controls | 1 1/4 in        | 4 ft 3 3/8 in  | 3 ft 9 in      | Fixed return beyond bedroom opening; general / glow / fan / task.                                                      |
| BR-S3      | Work desk power          | -1 ft 7 3/4 in  | 8 ft 1 3/8 in  | 3 ft 1 3/8 in  | 2 x S6 above desk; separate Cat6 point.                                                                                |
| BR-DATA1   | Desk data                | -1 ft 7 3/4 in  | 9 ft 2 3/8 in  | 3 ft 1 3/8 in  | Two Cat6 runs, segregated from power.                                                                                  |
| BR-S4      | Bedroom cleaner socket   | 4 7/8 in        | 0 3/4 in       | 1 ft           | 1 x S6 clear of wardrobe door travel.                                                                                  |
| BR-DATA2   | Bedroom 2 Wi-Fi cable    | 1 ft 1 1/2 in   | 4 ft 1 in      | 10 ft          | Retained provision only; coverage test before fitting another AP.                                                      |
| BR-AL1     | Bedroom 2 smoke alarm    | 2 ft 0 1/2 in   | 10 ft 6 1/8 in | 10 ft          | Interlinked ceiling alarm; confirm product spacing from fan, wall and curtain pocket.                                  |
| BR-AP1     | LED-driver access        | 1 ft 2 5/8 in   | 4 ft 0 1/4 in  | 10 ft          | 12 in nominal dry ceiling hatch for ventilated, labelled LED drivers. Keep serviceable; never seal drivers in plaster. |

Socket quantities and appliance types are explicit here. Coordinates locate centres; final back-box sizes follow the selected switch range.

# Lighting - Office

Furniture shown in pale tone. Colour links identify one control group; they are not conduit routes.



## WHAT TURNS ON TOGETHER

- Office ceiling**  
OF-D1, OF-D2, OF-D3, OF-D4  
OF1 DIM, OF2 PB
- Office fan**  
OF-F1  
OF1 1W
- Desk task lamps**  
OF-T1, OF-T2  
Own switch at each desk
- Office shelf glow**  
OF-T3  
OF1 1W
- Office cove**  
+ 25 ft 2 in LED run  
OF1 DIM

D = recessed | P = hanging | F = white fan | T/C = task/cove strip

Full fitting legend: E02. Board types: E03. Dashed links show shared control, not cable routes.

### Why these positions

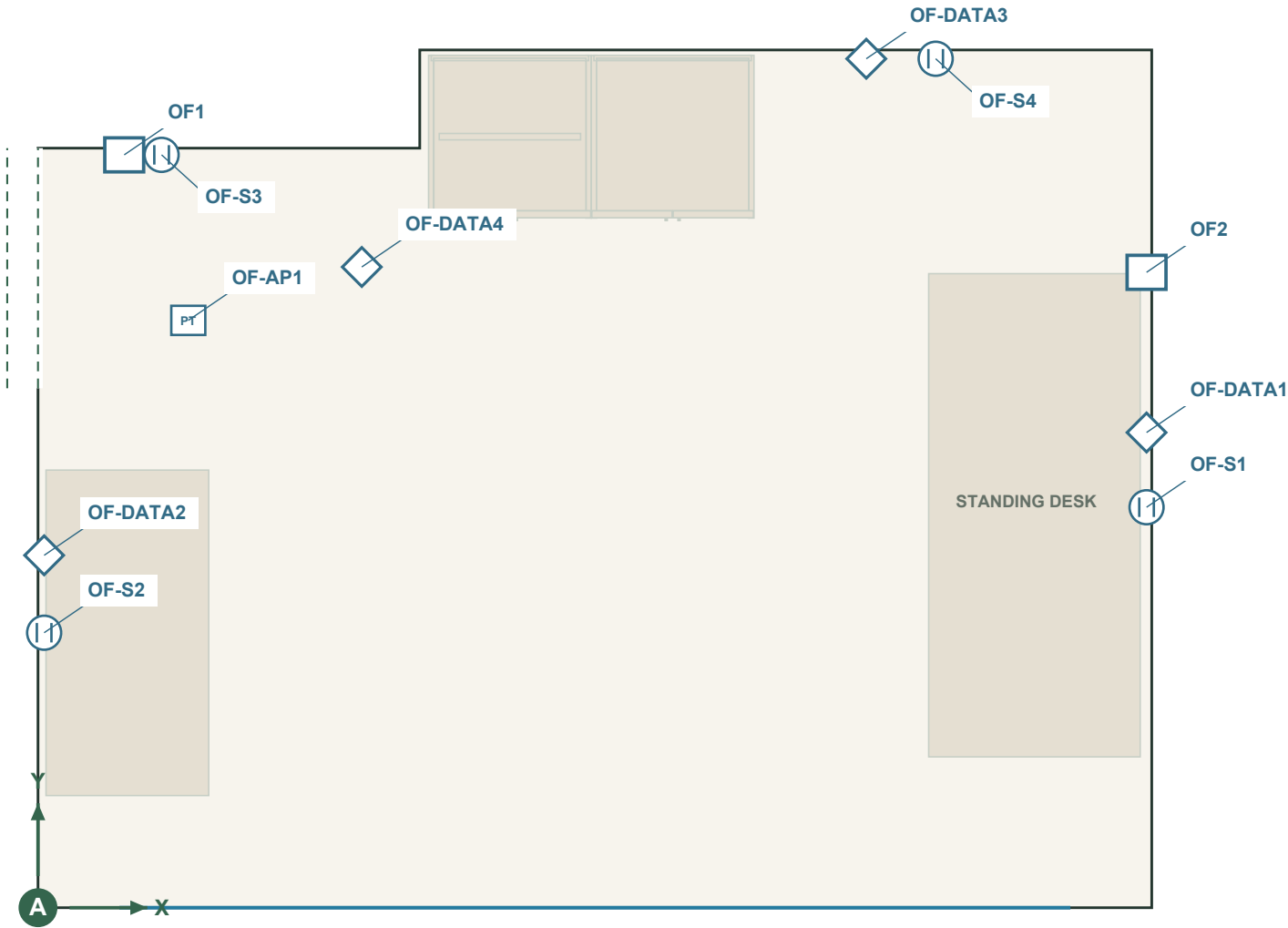
Four ceiling lights balance the irregular footprint; task lights serve both desks. The standing desk keeps its 66-120 cm travel. Warm shelf light softens the storage corner.

### Everyday use

Main desk supply and data feed a moving cable tray with slack. No floor leads cross the doorway. Use blinds to control reflections on the monitors.

# Switchboards + power - Office

Board labels match the lighting key. Individual fitting and outlet details follow on the room schedule.



Each tag is detailed on the next room schedule: type, height, position and purpose.

## Power points / mounting heights

OF-S1: Standing-desk supply (1 ft 5 3/4 in) | OF-S2: Secondary-desk supply (3 ft 1 3/8 in) | OF-S3: Printer / cleaner socket (1 ft 5 3/4 in) | OF-S4: Network equipment power (5 ft 10 7/8 in)

## SWITCHBOARD FACE / CONTROL TYPE

### OF1 Office entry / 3 ft 9 in AFFL

**DIM**

Ceiling

**DIM**

Cove

**1W**

Shelf glow

**1W**

Fan

### OF2 At standing desk / 4 ft 3 1/8 in AFFL

**PB**

Ceiling

Modules are labelled by function. DP geyser/AC isolation is on a separate labelled dry plate. DIM + PB requires a compatible wired dimmer system.

## Installation coordination

Main desk supply and data feed a moving cable tray with slack. No floor leads cross the doorway. Use blinds to control reflections on the monitors.

# Setting-out - Office

Point centres, mounting heights, control locations and purpose. Heights are from finished tiles.

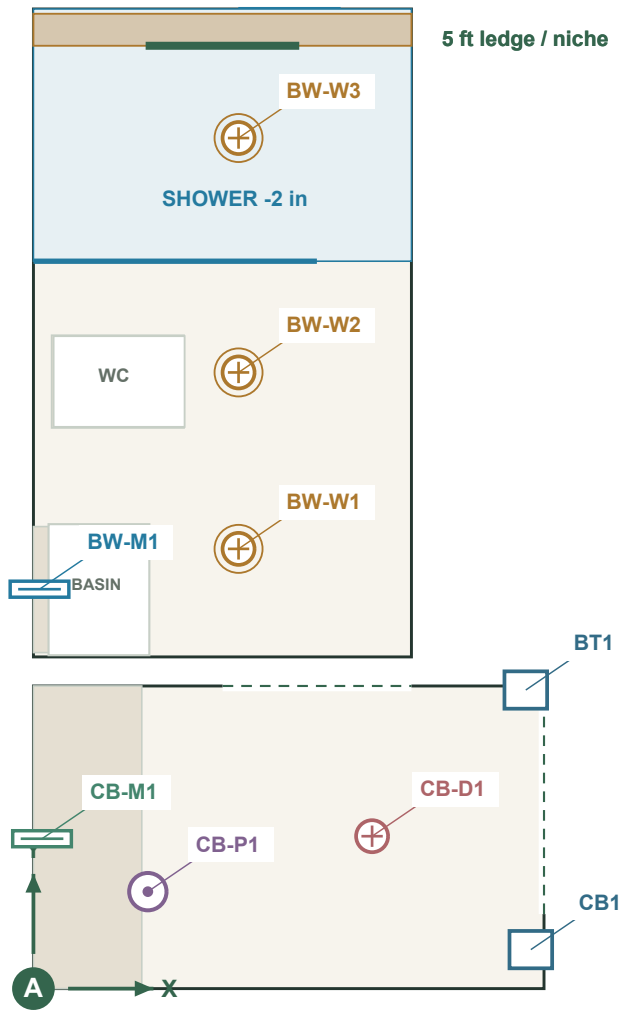
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| TAG / TYPE | FITTING / POINT                  | X FROM A       | Y FROM A       | Z / HEIGHT     | CONTROL OR INSTALLATION INTENT                                                                                                     |
|------------|----------------------------------|----------------|----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------|
| OF-D1      | Ceiling light 1                  | 2 ft 5 1/4 in  | 2 ft 0 3/8 in  | 10 ft          | OF1 DIM, OF2 PB                                                                                                                    |
| OF-D2      | Ceiling light 2                  | 10 ft 3 3/4 in | 2 ft 0 3/8 in  | 10 ft          | OF1 DIM, OF2 PB                                                                                                                    |
| OF-D3      | Ceiling light 3                  | 2 ft 5 1/4 in  | 8 ft 0 1/2 in  | 10 ft          | OF1 DIM, OF2 PB                                                                                                                    |
| OF-D4      | Ceiling light 4                  | 10 ft 3 3/4 in | 8 ft 0 1/2 in  | 10 ft          | OF1 DIM, OF2 PB                                                                                                                    |
| OF-F1      | White office fan                 | 7 ft 5 1/8 in  | 5 ft 3 in      | 10 ft          | Independent slab fixing above ceiling; white BLDC, wall switch + speed remote.                                                     |
| OF-T1      | Standing-desk task lamp          | 12 ft 4 1/8 in | 6 ft 11 1/2 in | 2 ft 11 3/8 in | Own switch at each desk                                                                                                            |
| OF-T2      | Secondary-desk shelf light       | 11 1/8 in      | 3 ft 4 1/2 in  | 4 ft 11 in     | Own switch at each desk                                                                                                            |
| OF-T3      | Bookshelf / storage glow         | 8 ft 8 7/8 in  | 9 ft 8 7/8 in  | 6 ft 0 7/8 in  | OF1 1W                                                                                                                             |
| OF1        | Office entry controls            | 1 ft 0 3/4 in  | 9 ft 3 in      | 3 ft 9 in      | Fixed rear return reached on entry; ceiling / glow / shelf / fan. Clear of slider parking on other wall.                           |
| OF-S1      | Standing-desk supply             | 13 ft 7 1/2 in | 4 ft 11 in     | 1 ft 5 3/4 in  | 4 x S6 on desk cable tray, fed by accessible wall supply. Test cable slack at both desk limits.                                    |
| OF-DATA1   | Standing-desk data               | 13 ft 7 1/2 in | 5 ft 10 1/8 in | 1 ft 5 3/4 in  | Two Cat6 ports; flexible desk loop, separate from motor mains cable.                                                               |
| OF-S2      | Secondary-desk supply            | 0 7/8 in       | 3 ft 4 1/2 in  | 3 ft 1 3/8 in  | 2 x S6 at optional secondary desk; remains usable if desk removed.                                                                 |
| OF-DATA2   | Secondary-desk data              | 0 7/8 in       | 4 ft 4 in      | 3 ft 1 3/8 in  | Two Cat6 runs; keep blank plate if desk omitted.                                                                                   |
| OF-S3      | Printer / cleaner socket         | 1 ft 6 1/4 in  | 9 ft 3 in      | 1 ft 5 3/4 in  | 2 x S6 printer / cleaner, not behind storage.                                                                                      |
| OF-DATA3   | Network / UPS service bay        | 10 ft 2 1/8 in | 10 ft 5 1/4 in | 5 ft 10 7/8 in | Ventilated router / patch-panel bay. Keep power adapters and UPS serviceable and separate from seasonal linen. Cat6 star topology. |
| OF-S4      | Network equipment power          | 11 ft 0 3/8 in | 10 ft 5 1/4 in | 5 ft 10 7/8 in | 2 x S6 in ventilated network bay; no storage of fabric here.                                                                       |
| OF-DATA4   | Office ceiling Wi-Fi cable       | 3 ft 11 3/4 in | 7 ft 10 1/2 in | 10 ft          | Retained provision; install radio only if coverage needs it.                                                                       |
| OF-AP1     | LED-driver access                | 1 ft 10 1/8 in | 7 ft 2 5/8 in  | 10 ft          | 12 in nominal dry ceiling hatch for ventilated, labelled LED drivers. Keep serviceable; never seal drivers in plaster.             |
| OF2        | Standing-desk ceiling pushbutton | 13 ft 7 1/2 in | 7 ft 9 3/4 in  | 4 ft 3 1/8 in  | Fixed wall control above maximum 1.20 m desktop travel. Wired PB to OF1 ceiling dimmer.                                            |

Socket quantities and appliance types are explicit here. Coordinates locate centres; final back-box sizes follow the selected switch range.

# Lighting - Bathroom 2 + common basin

Furniture shown in pale tone. Colour links identify one control group; they are not conduit routes.



## WHAT TURNS ON TOGETHER

### Bathroom 2 ceiling

BW-W1, BW-W2, BW-W3  
BT1 1W

### Bathroom 2 mirror

BW-M1  
BT1 1W

### Common basin pendant

CB-P1  
CB1 DIM

### Common basin mirror

CB-M1  
CB1 1W

### Common lobby

CB-D1  
CB1 1W

D = recessed | P = hanging | F = white fan | T/C = task/cove strip

Full fitting legend: E02. Board types: E03. Dashed links show shared control, not cable routes.

### Why these positions

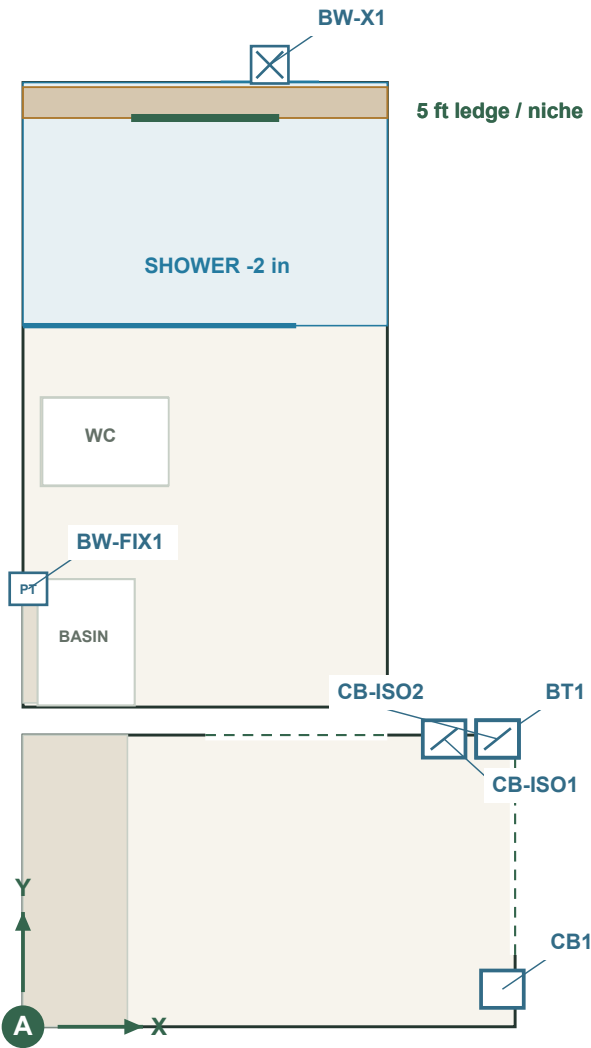
Sealed lights follow basin, WC and shower. The common basin has one hanging light, plus separate useful mirror light so the decorative pendant need not do all the work.

### Everyday use

Bathroom and geyser controls stay in the dry lobby. Common-basin pendant, mirror and lobby light are separate switches. Exhaust has timed run-on and maintenance isolation.

# Switchboards + power - Bathroom 2 + common basin

Board labels match the lighting key. Individual fitting and outlet details follow on the room schedule.



## SWITCHBOARD FACE / CONTROL TYPE

### BT1 Bathroom 2 dry lobby / 3 ft 9 in AFFL

|                           |                          |                      |
|---------------------------|--------------------------|----------------------|
| <b>1W</b><br>Bath ceiling | <b>1W</b><br>Bath mirror | <b>1W</b><br>Exhaust |
|---------------------------|--------------------------|----------------------|

### CB1 Common basin dry lobby / 3 ft 9 in AFFL

|                            |                       |                     |
|----------------------------|-----------------------|---------------------|
| <b>1W</b><br>Lobby ceiling | <b>DIM</b><br>Pendant | <b>1W</b><br>Mirror |
|----------------------------|-----------------------|---------------------|

Modules are labelled by function. DP geyser/AC isolation is on a separate labelled dry plate. DIM + PB requires a compatible wired dimmer system.

Each tag is detailed on the next room schedule: type, height, position and purpose.

### Power points / mounting heights

CB-ISO1: Bathroom 2 geyser isolator (5 ft) | CB-ISO2: Bathroom 2 exhaust isolation (5 ft) | BW-FIX1: Geyser 2 capped feed (8 ft 1 1/4 in)

### Installation coordination

Bathroom and geyser controls stay in the dry lobby. Common-basin pendant, mirror and lobby light are separate switches. Exhaust has timed run-on and maintenance isolation.

# Setting-out - Bathroom 2 + common basin

Point centres, mounting heights, control locations and purpose. Heights are from finished tiles.

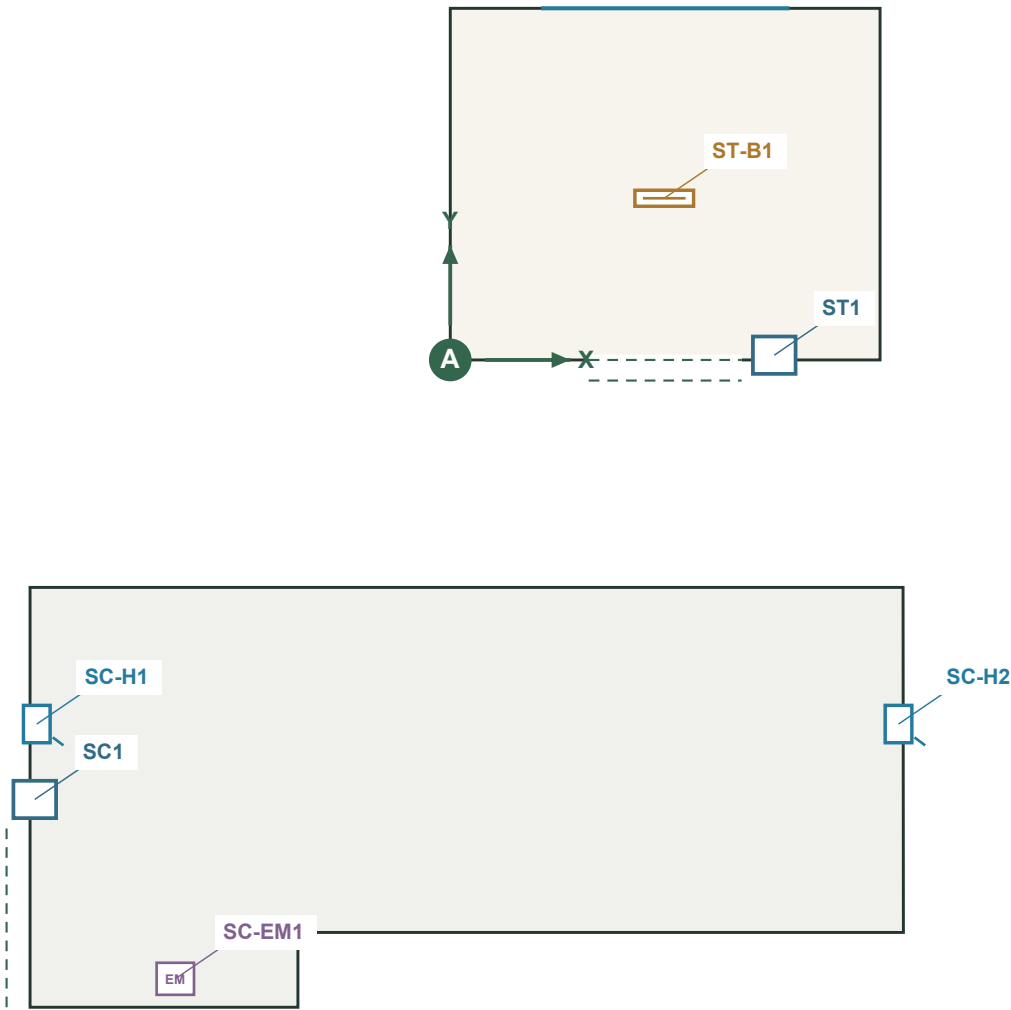
A = marked corner on the room plans. X = right; Y = up on this drawing (not compass axes). Z = height above tiles.

| TAG / TYPE | FITTING / POINT                  | X FROM A      | Y FROM A        | Z / HEIGHT     | CONTROL OR INSTALLATION INTENT                                                                                         |
|------------|----------------------------------|---------------|-----------------|----------------|------------------------------------------------------------------------------------------------------------------------|
| BW-W1      | Ceiling light 1                  | 2 ft 8 in     | 5 ft 8 3/4 in   | 10 ft          | BT1 1W                                                                                                                 |
| BW-W2      | Ceiling light 2                  | 2 ft 8 in     | 8 ft 0 1/4 in   | 10 ft          | BT1 1W                                                                                                                 |
| BW-W3      | Ceiling light 3                  | 2 ft 8 in     | 11 ft 0 7/8 in  | 10 ft          | BT1 1W                                                                                                                 |
| BW-M1      | Bathroom 2 mirror light          | 1 in          | 5 ft 2 3/8 in   | 5 ft 3 in      | BT1 1W                                                                                                                 |
| BW-X1      | Bathroom 2 exhaust               | 3 ft 4 in     | 12 ft 11 7/8 in | 8 ft 10 1/2 in | Existing 16 in x 2 ft 6 in ventilator; weather hood/backdraft damper; timed run-on and accessible dry isolator.        |
| BT1        | Bathroom 2 controls              | 6 ft 4 7/8 in | 3 ft 10 5/8 in  | 3 ft 9 in      | Dry fixed lobby wall beside bathroom entry; ceiling / mirror / exhaust.                                                |
| CB-ISO1    | Bathroom 2 geyser isolator       | 5 ft 8 1/4 in | 3 ft 10 5/8 in  | 5 ft           | Labelled double-pole switch with indicator outside wet room; dedicated supply to capped high service bay.              |
| CB-ISO2    | Bathroom 2 exhaust isolation     | 6 ft 4 7/8 in | 3 ft 10 5/8 in  | 5 ft           | Separate maintenance isolation; run-on fan requires permanent and switched supply per manufacturer.                    |
| BW-FIX1    | Geyser 2 capped feed             | 0 7/8 in      | 5 ft 11 in      | 8 ft 1 1/4 in  | Fixed earthed geyser feed in high service bay; dedicated circuit via dry-side DP isolator. No plug socket in bathroom. |
| CB-P1      | Common basin single pendant      | 1 ft 5 7/8 in | 1 ft 3 1/8 in   | 10 ft          | CB1 DIM; Z is ceiling feed, see hanging height detail.                                                                 |
| CB-M1      | Common basin mirror / underlight | 1 3/8 in      | 1 ft 11 3/8 in  | 5 ft 3 in      | CB1 1W                                                                                                                 |
| CB1        | Common basin / lobby controls    | 6 ft 5 3/4 in | 6 1/8 in        | 3 ft 9 in      | Entrance-facing dry return; basin pendant/mirror and lobby light.                                                      |
| CB-D1      | Lobby ceiling light              | 4 ft 4 7/8 in | 1 ft 11 3/4 in  | 10 ft          | CB1 1W                                                                                                                 |

Socket quantities and appliance types are explicit here. Coordinates locate centres; final back-box sizes follow the selected switch range.

# Lighting - Store + stair entrance

Furniture shown in pale tone. Colour links identify one control group; they are not conduit routes.



## WHAT TURNS ON TOGETHER

- Store aisle**
  - ST-B1
  - ST1 1W
- Shared stair lighting**
  - SC-H1, SC-H2
  - SC1 INT
- Permanent safety supply**
  - SC-EM1
  - Permanent supply; local test / maintenance

D = recessed | P = hanging | F = white fan | T/C = task/cove strip  
Full fitting legend: E02. Board types: E03. Dashed links show shared control, not cable routes.

### Why these positions

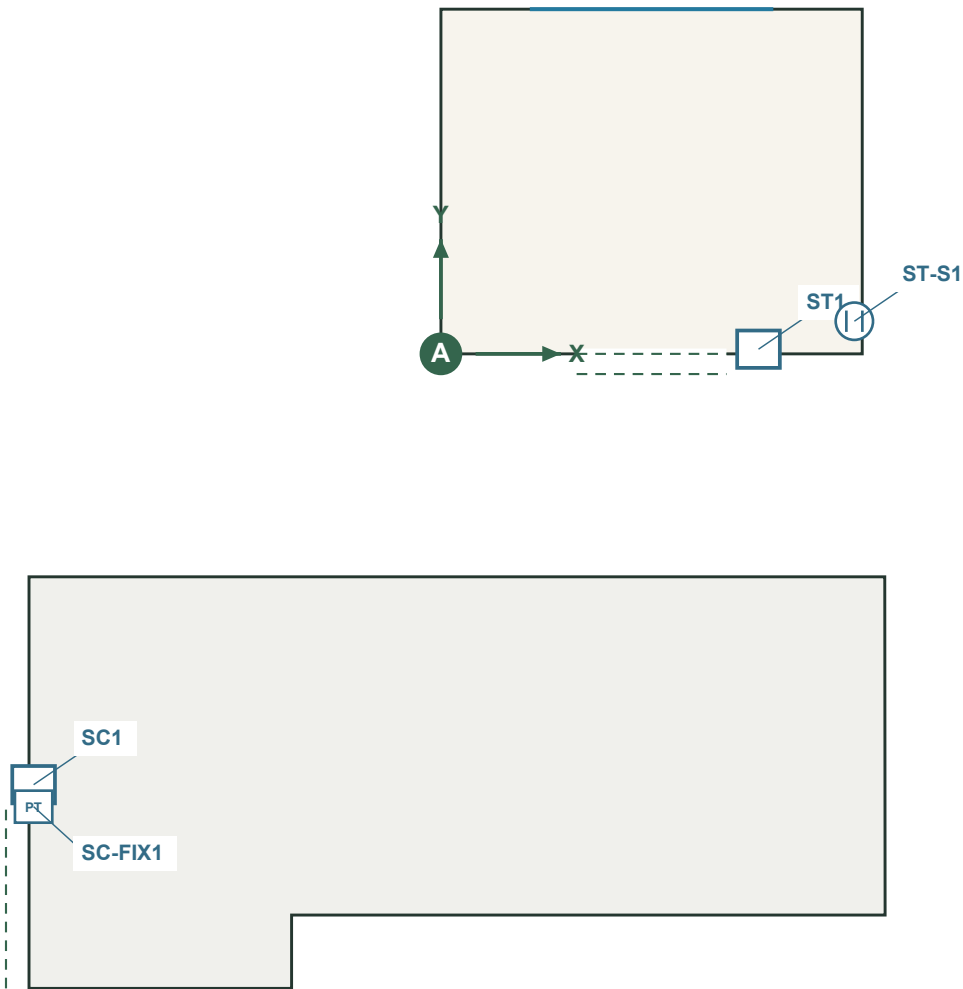
One diffused linear fitting lights the store aisle. Shielded stair wall lights illuminate the landing without glare; an emergency fitting stays on an unswitched supply.

### Everyday use

The store has its own jamb switch. Shared stair lighting is independent of private-room lights, with control at connected landings.

# Switchboards + power - Store + stair entrance

Board labels match the lighting key. Individual fitting and outlet details follow on the room schedule.



## SWITCHBOARD FACE / CONTROL TYPE

ST1 Store fixed jamb / 3 ft 9 in AFFL

1W

Aisle light

SC1 Shared stair landing / 3 ft 9 in AFFL

INT

Stair lights

Modules are labelled by function. DP geyser/AC isolation is on a separate labelled dry plate. DIM + PB requires a compatible wired dimmer system.

Each tag is detailed on the next room schedule: type, height, position and purpose.

### Power points / mounting heights

ST-S1: Store service socket (1 ft 5 3/4 in) | SC-FIX1: Doorbell button (3 ft 11 1/4 in)

### Installation coordination

The store has its own jamb switch. Shared stair lighting is independent of private-room lights, with control at connected landings.

# Setting-out - Store + stair entrance

Point centres, mounting heights, control locations and purpose. Heights are from finished tiles.

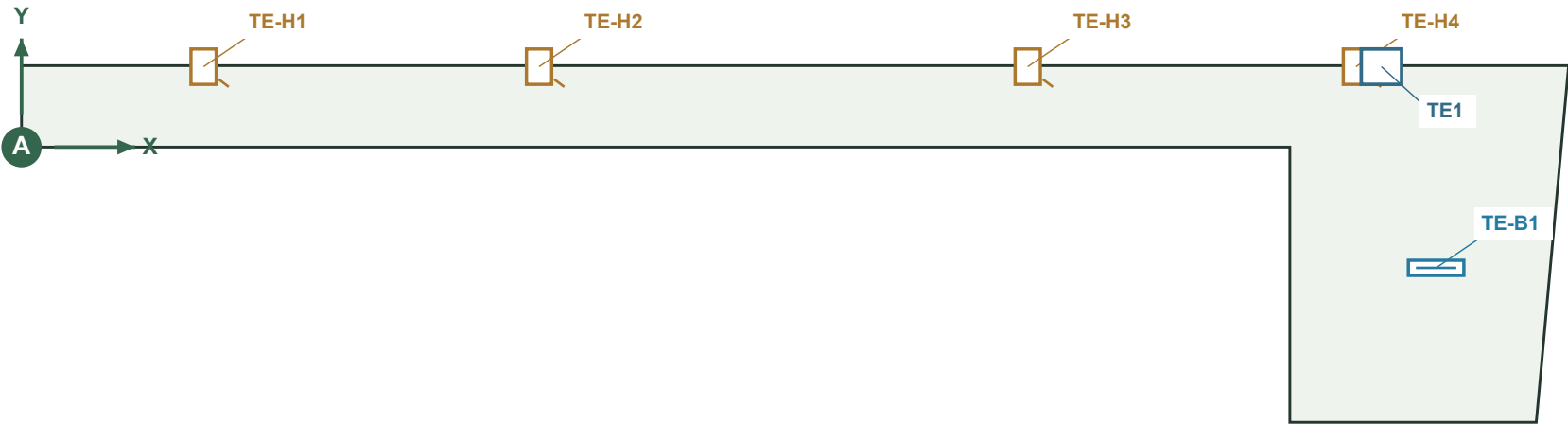
A = marked corner on the room plans. X = right; Y = up on this drawing (not compass axes). Z = height above tiles.

| TAG / TYPE | FITTING / POINT             | X FROM A       | Y FROM A        | Z / HEIGHT     | CONTROL OR INSTALLATION INTENT                                                                                                         |
|------------|-----------------------------|----------------|-----------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| ST-B1      | Store central ceiling light | 3 ft 5 3/8 in  | 2 ft 7 1/4 in   | 10 ft          | ST1 1W                                                                                                                                 |
| ST1        | Store entry switch          | 5 ft 2 5/8 in  | 0 7/8 in        | 3 ft 9 in      | Inside fixed right jamb, clear of telescopic leaf parking; occupancy sensor with manual override optional.                             |
| ST-S1      | Store service socket        | 6 ft 9 1/2 in  | 6 3/8 in        | 1 ft 5 3/4 in  | 1 x S6 service socket, accessible in shelf return.                                                                                     |
| SC-H1      | Stair wall light 1          | -6 ft 7 7/8 in | -5 ft 10 3/8 in | 6 ft 10 5/8 in | SC1 INT                                                                                                                                |
| SC-H2      | Stair wall light 2          | 7 ft 2 5/8 in  | -5 ft 10 3/8 in | 6 ft 10 5/8 in | SC1 INT                                                                                                                                |
| SC1        | Stair / entrance controls   | -6 ft 8 1/4 in | -7 ft 0 7/8 in  | 3 ft 9 in      | Stair-side fixed return beside main opening; multi-location landing + lower floor + roof exit controls. Keep circuit independent of... |
| SC-FIX1    | Doorbell button             | -6 ft 8 1/4 in | -7 ft 5 1/4 in  | 3 ft 11 1/4 in | Fixed main-entry jamb lining; low-voltage cable to indoor chime. Keep clear of slider mechanism.                                       |
| SC-EM1     | Landing emergency light     | -4 ft 5 1/8 in | -9 ft 11 1/2 in | 7 ft 8 1/2 in  | Permanent supply; local test / maintenance                                                                                             |

Socket quantities and appliance types are explicit here. Coordinates locate centres; final back-box sizes follow the selected switch range.

# Lighting - Terrace + pergola

Furniture shown in pale tone. Colour links identify one control group; they are not conduit routes.



## WHAT TURNS ON TOGETHER

- Terrace wall lights**
  - TE-H1, TE-H2, TE-H3, TE-H4
  - LV1 2W, TE1 2W

- Pergola glow**
  - TE-B1
  - TE1 DIM

D = recessed | P = hanging | F = white fan | T/C = task/cove strip

Full fitting legend: E02. Board types: E03. Dashed links show shared control, not cable routes.

### Why these positions

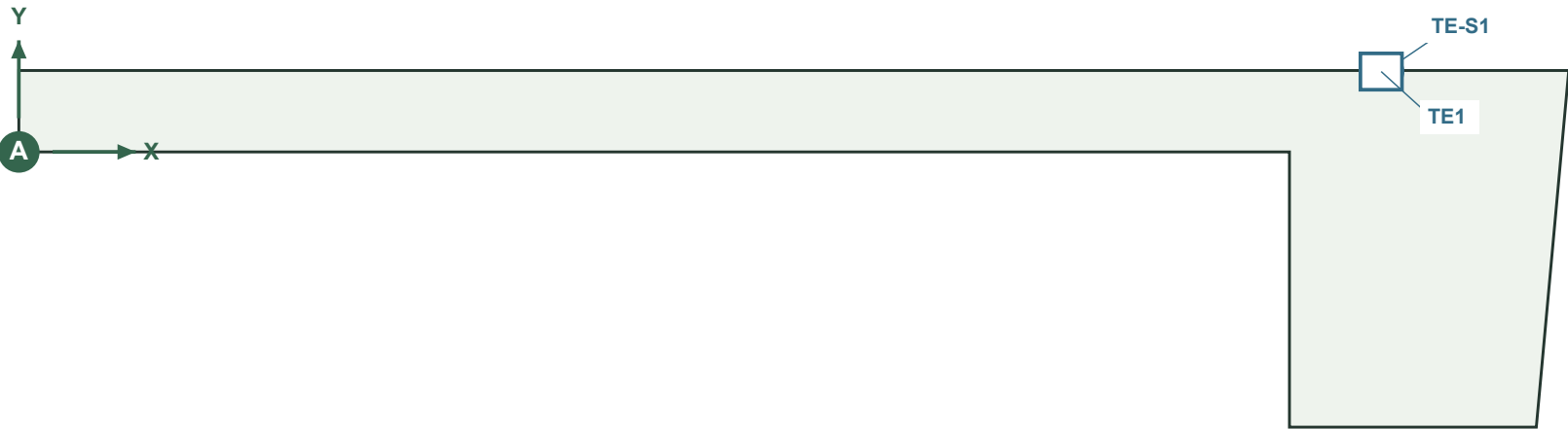
Warm shielded wall lights mark the terrace route. Pergola glow is concealed in the frame and controlled separately. Weatherproof fittings keep light out of bedroom glazing.

### Everyday use

Living-entry and outdoor-pier controls operate terrace lighting. Outdoor sockets have separate indoor isolation. Rainwater and cleaning tap are covered in the plumbing book.

# Switchboards + power - Terrace + pergola

Board labels match the lighting key. Individual fitting and outlet details follow on the room schedule.



## SWITCHBOARD FACE / CONTROL TYPE

TE1 Terrace fixed pier / 3 ft 9 in AFFL

2W

Terrace

DIM

Pergola

Modules are labelled by function. DP geyser/AC isolation is on a separate labelled dry plate. DIM + PB requires a compatible wired dimmer system.

Each tag is detailed on the next room schedule: type, height, position and purpose.

### Power points / mounting heights

TE-S1: Terrace weatherproof socket (3 ft 7 1/4 in)

### Installation coordination

Living-entry and outdoor-pier controls operate terrace lighting. Outdoor sockets have separate indoor isolation. Rainwater and cleaning tap are covered in the plumbing book.

# Setting-out - Terrace + pergola

Point centres, mounting heights, control locations and purpose. Heights are from finished tiles.

A = marked corner on the room plans. X = right; Y = up on this drawing (not compass axes). Z = height above tiles.

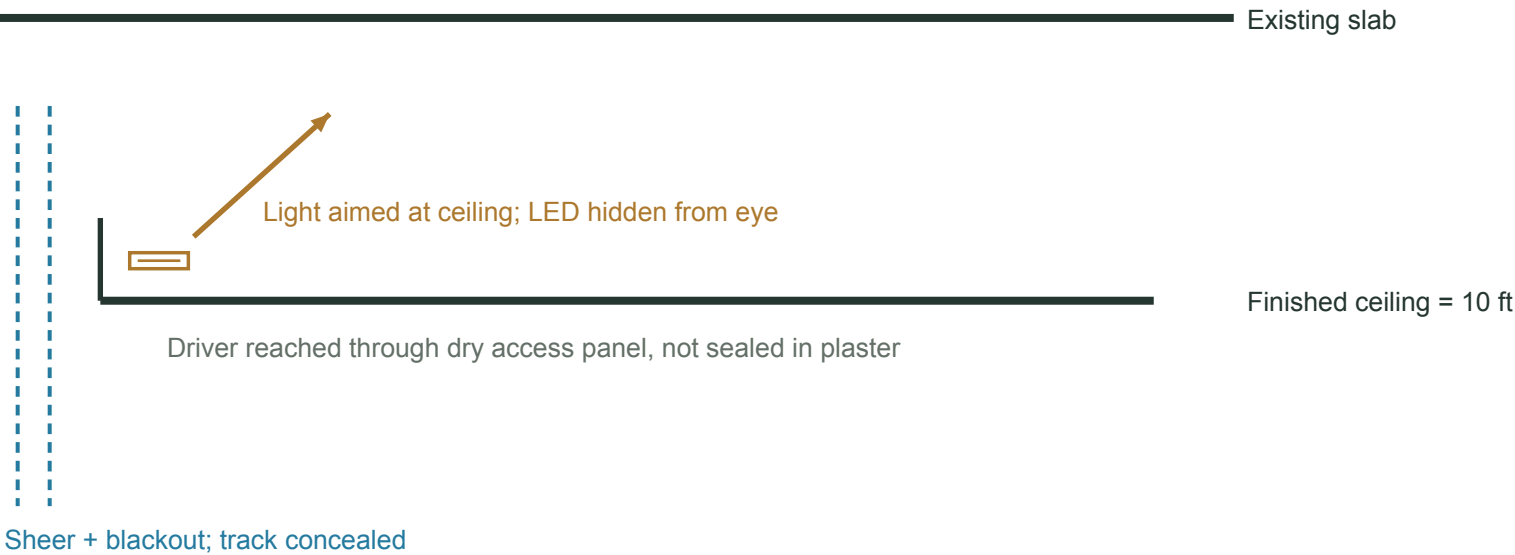
| Tag / Type | Fitting / Point               | X From A       | Y From A       | Z / Height    | Control or Installation Intent                                                                      |
|------------|-------------------------------|----------------|----------------|---------------|-----------------------------------------------------------------------------------------------------|
| TE-H1      | Terrace shielded wall light 1 | 8 ft 2 1/4 in  | 3 ft 7 3/8 in  | 7 ft 8 1/2 in | LV1 2W, TE1 2W                                                                                      |
| TE-H2      | Terrace shielded wall light 2 | 23 ft 3 3/8 in | 3 ft 7 3/8 in  | 7 ft 8 1/2 in | LV1 2W, TE1 2W                                                                                      |
| TE-H3      | Terrace shielded wall light 3 | 45 ft 3 1/8 in | 3 ft 7 3/8 in  | 7 ft 8 1/2 in | LV1 2W, TE1 2W                                                                                      |
| TE-H4      | Terrace shielded wall light 4 | 60 ft 0 1/4 in | 3 ft 7 3/8 in  | 7 ft 8 1/2 in | LV1 2W, TE1 2W                                                                                      |
| TE-B1      | Pergola concealed light       | 63 ft 7 5/8 in | -5 ft 5 1/8 in | 8 ft 2 3/8 in | TE1 DIM                                                                                             |
| TE-S1      | Terrace weatherproof socket   | 61 ft 4 in     | 3 ft 7 3/8 in  | 3 ft 7 1/4 in | 1 x S16 IP55/IP66 weatherproof assembly; protected even when in use; indoor DP isolation.           |
| TE1        | Terrace / pergola control     | 61 ft 2 1/8 in | 3 ft 7 3/8 in  | 3 ft 9 in     | Weatherproof fixed pier by gym entry; two-way terrace light with living entry; independent pergola. |

Socket quantities and appliance types are explicit here. Coordinates locate centres; final back-box sizes follow the selected switch range.

# Ceiling, cove and hanging-light details

Installation intent coordinated with the 10 ft finished ceiling and current room layout.

## CONCEALED GLOW + CURTAIN POCKET



### Product brief + realistic lighting

Use one consistent 3000 K / CRI 90+ family across the cream-and-wood rooms. Downlights: recessed white anti-glare baffles. Coves: continuous diffused line, no visible LED dots. Worktops and desks need their own task layer. Start with the legend output ranges; calculate lux from the chosen fitting files and confirm with an on-site sample before cutting all ceiling holes. Dimmers must match LED drivers and minimum loads.

### Hanging lights: set the bottom, not just the ceiling feed

Master: only cupboard-side pendant. Place its bottom about 18-24 in above the bedside top, away from face and bed-box access. Guest: same approach for both pendants. Dining: start 30-36 in above table top and check sightlines. Common basin: one small shade off the mirror centreline; bottom about 6 ft above tiles, within the vanity footprint. Eating counter uses a restrained linear fitting; no clutter in the kitchen route. Ceiling coordinates in the schedules locate the canopy/feed, not the shade bottom.

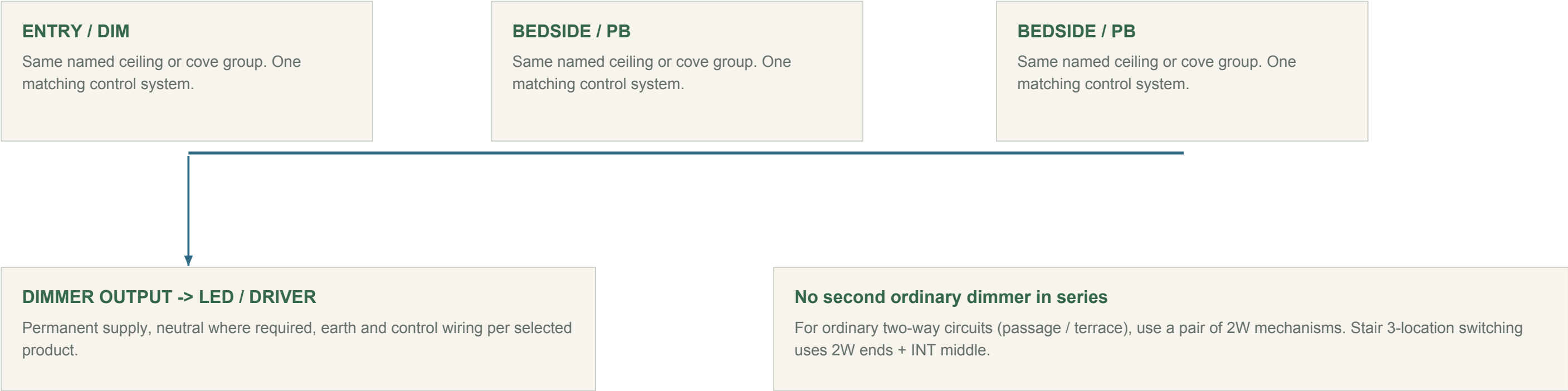
### Fan, skylight and joinery coordination

White BLDC fans get independent slab support; never load the false-ceiling board. Keep recessed lights outside the fan blade sweep to reduce flicker. Both kitchen skylight rectangles are left clear. Joinery task strips sit near the front of the upper cabinet underside to light hands/worktops. Stop strips at the hood; do not run drivers in hot ducts. Provide labelled dry access panels for each driver group and split long strips into properly sized feeds.

# Switching, wiring and service access

Installation intent coordinated with the 10 ft finished ceiling and current room layout.

## MULTI-LOCATION DIMMING: PHYSICAL BUTTONS, NO INTERNET NEEDED



### Mounting and cable containment

Standard entry board centre 3 ft 9 in. Bedside centres near 2 ft 6 in, above bedside furniture. Appliance and isolator heights follow the room schedule. Run conduits vertically/horizontally in service zones; avoid diagonal chases. No structural column or beam chase is assumed. Carry protective earth to every required outlet and metal appliance.

### Office + media + Wi-Fi

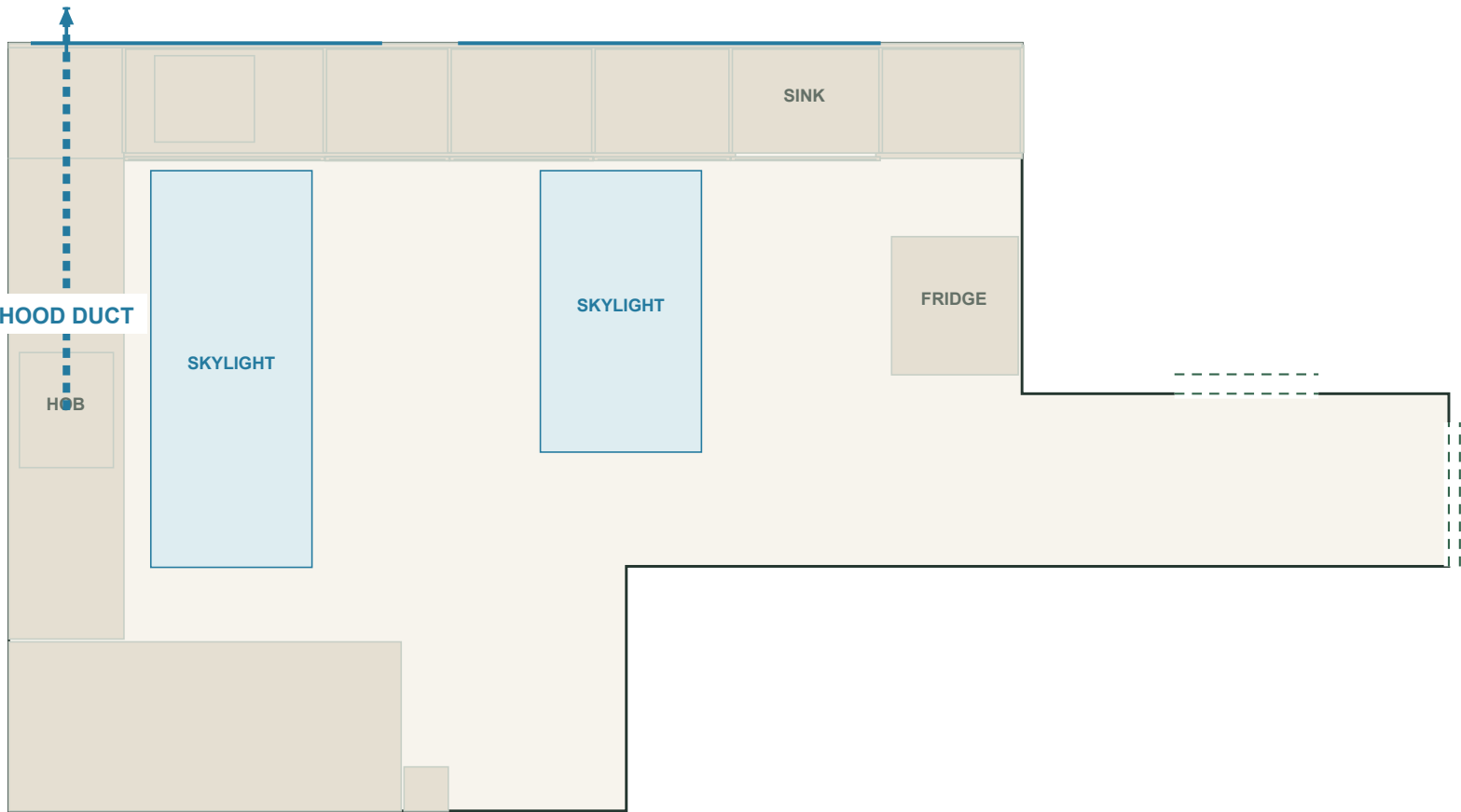
Cat6 home-runs terminate at the ventilated office network bay. Keep mains and data in separate containment. Standing desk has a cable chain/loop checked from 66 cm to 120 cm. TV wall has accessible sockets, data and spare HDMI conduit. Ceiling AP points are cable provisions; final number of active APs follows a coverage check.

### Wet rooms + permanent feeds

No ordinary socket or switch on shower-side glass. Dry DP isolation for each geyser and AC. Timed exhaust needs the permanent/switched feed required by its maker plus maintenance isolation. Smoke/heat alarms and emergency light need the specified permanent supply and backup. Shared stair supply stays independent of private-room lights.

# Kitchen lights, appliances and extraction

Installation intent coordinated with the 10 ft finished ceiling and current room layout.



## South hob -> west external discharge

Proposed duct corridor runs toward the west service edge, clear of both skylight openings in plan. Select the hood first; follow its outlet size and maximum equivalent duct length. Use a smooth rigid duct with service access, external weather hood and backdraft control. Confirm the actual ceiling void and beam positions before fixing this route. Keep the 10 ft finished ceiling; do not assume the duct can pass through a structural member or window lintel.

## Worktop power and wet separation

Cooking/sink counter = 3 ft 1 in above tiles; eating counter = 3 ft 5 in. Worktop outlets are about 3 ft 10 1/2 in AFFL in solid backsplash/service pockets, not the glazing. Keep sink/hob splash zones clear. Fridge, microwave, hob ignition and hood each have accessible labelled supplies; the two worktop circuits share portable loads.

## Kitchen task-light placement

Cooking strips stop around the hood. Sink strip is concealed at the upper-unit front below the W07 head, aimed at the sink. The large window remains clear; a ceiling task light lights that preparation bay. The eating counter stays open underneath for chairs on both sides: no new cabinet or low dangling socket strip.

# Distribution + circuit schedule / 1

Functional circuit separation; final ratings follow site loads, supply and cable-route design.

Each line below is a proposed separate final circuit / function; ratings require appliance loads and cable-route calculation.

|                   |                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------|
| Lighting 1        | <b>Master bedroom / closet</b><br>Preserve bedroom multi-location control; separate cove drivers.                      |
| Lighting 2        | <b>Living / dining / common lobby</b><br>General, glow, pendant and accents separately switched.                       |
| Lighting 3        | <b>Bedroom 2 / office</b><br>Room controls and task lights independent.                                                |
| Lighting 4        | <b>Kitchen / store</b><br>Worktop strips independent of general and passage lights.                                    |
| Lighting 5        | <b>Both bathrooms / exhaust</b><br>Wet-zone products, dry isolation; run-on fan permanent feed.                        |
| Lighting 6        | <b>Terrace / pergola</b><br>Weatherproof outdoor fittings; separate from private-room scenes.                          |
| Stair lighting    | <b>Shared stair / emergency fitting</b><br>Independent unswitched feed where required; not on private-room master-off. |
| Master sockets    | <b>Bedroom + dry dressing</b><br>Keep hair dryer / cleaner load in sizing; charging independent.                       |
| Bedroom 2 sockets | <b>Bedside + desk</b><br>No ordinary socket in adjoining wet room.                                                     |
| Living sockets    | <b>General + media</b><br>TV/console ventilation; no extension through seating path.                                   |
| Office sockets    | <b>Two desks + network</b><br>UPS only through designed changeover / labelled supported loads.                         |

## DB at the living / bedroom circulation wall

Dry accessible board at about 5 ft centre, outside wardrobe and door travel. Keep labelled circuits, earth/neutral bars and usable spare ways. No new structural recess assumed.

## Protection and commissioning

Provide domestic RCD protection not exceeding 30 mA (CEA). Prefer individual circuit RCBOs for fault separation; electrician chooses type/ratings, surge protection and earthing from site supply.

# Distribution + circuit schedule / 2

Functional circuit separation; final ratings follow site loads, supply and cable-route design.

Each line below is a proposed separate final circuit / function; ratings require appliance loads and cable-route calculation.

|                   |                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|
| Kitchen worktop A | <div>Prep / crockery / spare purifier</div> <div>Divide simultaneous small appliances across A and B.</div>                |
| Kitchen worktop B | <div>Cooking side / ignition / hood</div> <div>No sockets over hob; accessible isolation.</div>                            |
| Fridge            | <div>Fridge only</div> <div>Dedicated labelled circuit; preserve supply if other kitchen sockets trip.</div>               |
| Microwave         | <div>Microwave only</div> <div>Product load, cable run and isolation determine circuit size.</div>                         |
| Store service     | <div>Store cleaner / maintenance outlet</div> <div>Accessible outlet clear of the store slider and shelves.</div>          |
| Geyser 1          | <div>Master bathroom heater</div> <div>Dedicated circuit + dry double-pole isolation.</div>                                |
| Geyser 2          | <div>Second bathroom heater</div> <div>Dedicated circuit + dry double-pole isolation.</div>                                |
| Master AC         | <div>North-wall capped AC provision</div> <div>Manufacturer may power outdoor unit first; separate condensate route.</div> |
| Outdoor sockets   | <div>Terrace service outlet</div> <div>Weatherproof, indoor isolation and earth-leakage protection.</div>                  |
| Dishwasher spare  | <div>Empty provision only</div> <div>No live outlet or appliance assumed.</div>                                            |
| Master dressing   | <div>Dry passage styling socket</div> <div>Dedicated high-load allowance retained from master-suite plan.</div>            |

## DB at the living / bedroom circulation wall

Dry accessible board at about 5 ft centre, outside wardrobe and door travel. Keep labelled circuits, earth/neutral bars and usable spare ways. No new structural recess assumed.

## Protection and commissioning

Provide domestic RCD protection not exceeding 30 mA (CEA). Prefer individual circuit RCBOs for fault separation; electrician chooses type/ratings, surge protection and earthing from site supply.