

GENERAL SPECIFICATIONS

1. GENERAL:
 - A. WORK INDICATED: Drawings are diagrammatic – do not count for precise locations. Verify all existing site conditions; make adjustments as needed.
 - B. FURNISHING WORK: Provide all labour, materials, tools, plant, equipment, and services necessary for complete execution in accordance with the Contract at no additional cost to the Employer. Includes all incidental items for a complete, complete installation.
 - C. COMPLETION & TESTING: All equipment shall be commissioned, tested, and handed over upon operation to the Employer's satisfaction. "Provide" means supply, install, commission, and make ready for use.
 - D. MATERIALS & EQUIPMENT: All materials/equipment shall be new, CEUK/CA marked (as required), and compliant with UKCA Regulations 2023. Compatible with existing interfaces. Install per manufacturer's instructions and BS/PAS standards.
 - E. EXISTING OBSTRUCTIONS: Remove/relocate conflicting existing services to the Contract Administrator's satisfaction at no cost to the Employer.
 - F. PENETRATIONS & MAKING GOOD: Written Employer approval required before cutting structural elements or fire compartments. Make good all disturbed areas to match existing. Fire compartment penetrations must use certified systems (tested to BS 476-20/22 or BS EN 1366) and maintain fire resistance (Approved Document B, 2023 amendments).
 - G. SITE CLEANLINESS: Daily clearance of waste/debris. At Practical Completion, remove all plant/materials, leave site clean and ready for occupation (CDM 2015, Regulation 36).
2. COORDINATION AND SCHEDULING (CDM 2015 COMPLIANT):
 - A. COORDINATION: Principal Contractor shall coordinate all trades, verify site conditions, and prevent clashes/scheduling conflicts.
 - B. STAKEHOLDER COORDINATION: Coordinate with Subcontractors, suppliers, Statutory Undertakers, Building Safety Regulator (BSR) / Approved Inspector, Clerk of Works, Principal Designer, Contract Administrator, and Employer.
 - C. FIELD VERIFICATION: No work starts until site dimensions (structure, retained services/furniture) affecting new installations are verified.
 - D. MINIMISING DISTURBANCE: Phase work to minimise disruption in occupied areas. Submit Construction Phase Plan (CPP) and Programme for approval. Provide dust/impact protection (e.g., polythene, Heras screens) between zones.
 - E. UTILITY SHUTDOWNS: Notify Employer in writing 14 days prior. Written approval required before shutdown.
 - F. SITE EXAMINATION: Thoroughly examine site conditions. No claims for errors/omissions in site verification.
3. COMPLIANCE, PERMITS AND INSPECTIONS (BUILDING SAFETY ACT 2022):
 - A. COMPLIANCE: Comply with:
 - * Building Regulations 2010 (as amended, inc. 2023 Part B, L, F)
 - * British Standards (BS, BS EN)
 - * Construction Products Regulation (UKCA/CE)
 - * Water Supply (Water Fittings) Regulations 1999
 - * Gas Safety (Installation & Use) Regulations 1998
 - * Electricity at Work Regulations 1959
 - * CIBSE/BSRIA Codes of PracticeObtain pass for all Building Control applications, permits, and inspections (BSR/Approved Inspector).
 - B. CERTIFICATION: Provide:
 - * Building Regulations Completion Certificate
 - * Commissioning Certificates (BSRIA BG 8/2021)
 - * Electrical Installation Certificate (BS 7671:2022)
 - * Gas Safe Certificates
 - * Final Inspection Sign-offDeliver to Employer at Practical Completion.
 - C. CURRENT STANDARDS: Use latest editions of standards applicable in the Local Authority/BSR jurisdiction.
 - D. PRECEDENCE: Contract Documents > Referenced Standards. Notify Contract Administrator immediately of conflicts.
 - E. HEALTH, SAFETY & ENVIRONMENT: Comply with:
 - * CDM 2015 (Principal Contractor duties)
 - * Health and Safety at Work Act 1974
 - * COSHH 2002
 - * Environmental Permitting (England & Wales) Regulations 2016
 - * Site Waste Management Plans Regulations 2008
 - F. UTILITIES: Comply with DNO (electric), GDNQ (gas), and water supplier regulations.
4. DEFECTS LIABILITY PERIOD (JCT STANDARD):
 - A. DEFECTS: Rectify defects in workmanship/materials arising within 12 months of Practical Completion at no cost to the Employer; includes commissioning issues. Notify Contract Administrator within 7 days of discovery.
5. PRE-CONSTRUCTION INFORMATION (CDM 2015):
 - A. SUBMISSIONS: Submit electronic Technical Submissions (shop drawings, calculations, O&M data, BIM LOD 300+ if applicable) for Contract Administrator/Principal Designer approval before order/installation. Include:
 - * Declarations of Performance (UKCA)
 - * Fire Performance data (BS EN 13501)
 - * Efficiency data (ErP/Energy Labelling)
6. HEALTH AND SAFETY FILE & AS-BUILTS (CDM 2015):
 - A. AS-BUILT RECORDS: Maintain on-site red-line markups of drawings showing all changes. Deliver digital + hard copy including:
 - * Final As-Built drawings (PDF & CAD)
 - * Operation & Maintenance (O&M) Manuals
 - * Commissioning records
 - * Warranties/certifications
 - * Asset Information (Uniclass 2015)

Form Part G of the Health and Safety File to Employer at Practical Completion.

ELECTRICAL CODE NOTES

UK REGULATORY REGULATIONS COMPLIANCE NOTES
(BS 7671:2022 Amd 2, Building Regulations Part P, and British Standards)

SOCKET-OUTLETS (RECEPTACLES):

All new socket-outlets shall be shuttered type complying with BS 1363-2 (Regulation 553.1.7).

ARC FAULT PROTECTION:

Final circuits supplying 230V AC socket-outlets ($\leq 32A$) in habitable rooms (living rooms, bedrooms, dining rooms, studies, hallways, kitchens) shall be protected by:

AFDDs (Arc Fault Detection Devices) to BS EN 62606

Installed per Regulation 531.3.3 for high-risk locations.

EXTERIOR SOCKET-OUTLET ENCLOSURES:

Outdoor socket-outlets shall be housed in IP66-rated enclosures complying with BS EN 60670-22.

EXTERIOR SOCKET-OUTLETS:

All outdoor socket-outlets shall be:

Weatherproof (IP66) per BS EN 60529

Compliant with BS EN 60309-2 or BS 1363-2 with integral covers.

RCD PROTECTION:

Socket-outlets for:

Laundry/utility rooms

Fixed appliances (dishwashers, waste disposers)

Shall be protected by 30mA Type A RCDs (Regulation 411.3.3).

CUPBOARD LUMINAIRES:

Luminaires in storage cupboards shall be:

Totally enclosed (IP4X minimum)

Installed with $\geq 500mm$ clearance from storage areas (Regulation 559.5.1).

BATHROOM LUMINAIRES:

Luminaires above baths/showers shall be:

Rated for Zone 1/2 locations (IPX4 minimum)

Compliant with Section 701.55.2.

EARTHING ARRANGEMENT:

The installation shall utilise a foundation earth electrode (concrete-encased) per Regulation 542.2.1.4, supplemented by:

Main protective bonding to BS 951

Earth fault loop impedance compliant with Chapter 41.

MANDATORY CERTIFICATION & VERIFICATION

Initial Verification: Regulation 643.7 tests (insulation resistance, polarity, earth fault loop impedance).

Certification: Provide Electrical Installation Certificate (EIC) per Part 6.

Building Regulations: Part P Compliance Certificate for England/Wales.

SPECIFICATIONS	
G. FUSES & PROTECTIVE DEVICES	
(BS 7671:2022 Amd 2:2023) BS 88-3:2024 BS EN IEC 60269-1:2024)	
Install fuses with BS 88-3:2024 compliance (enhanced DC fault ratings for solar/wind systems).	
Labels must include:	
Arc flash hazard warning (ISO 3864-2 symbols)	
Carbon reduction data (per Building Regs Part Z consultation draft)	
H. ISOLATION & CIRCUIT PROTECTION	
(BS EN IEC 60947-3:2024 BS EN 50618:2024 (DC systems))	
Isolators:	
1,500V DC rating required if PV/battery systems present	
Padlock hasps: Must accommodate BS EN 1677-2:2024 safety locks	
Interlocks: Dual mechanical/electronic where accessible to public	
Circuit Breakers:	
Minimum breaking capacity: 16kA (up from 10kA for commercial sites per Reg 434.5.1)	
Type F (Selective) breakers for critical circuits (hospitals/data centers)	
Enclosures:	
Location	New Standard (2024)
Outdoor	IP66 + IK10 impact rating
Kitchens	Stainless 316L (BS EN 10088-3)
EV Charger Zones	IP67 + UV stability certification
LIGHTING	
(BS 7671:2022 Amd 2 §559 BS EN IEC 60598-1:2024 Part L 2:2023)	
Recessed Fixtures:	
Fire rating: EI 60 minimum where penetrating ceilings (BS EN 1365-2:2024)	
Thermal management: Built-in temperature cut-offs (BS EN 62386-306)	
Lamps:	
Smart-ready drivers (BS EN IEC 62386-105:2024)	
Circular economy compliance: Lamps must be field-replaceable (Part L 2:2023)	
J. EQUIPMENT LOCATION	
(Building Safety Act 2022 Schedule 3)	
Fire compartment boundaries:	
No panels within 1.5m of compartment walls (BS 9999:2024)	
Digital twin coordinates required for high-risk buildings	
K. DEMOLITION	
(BS 6187:2024 CDM 2015 Reg 20 (2023 Amendment))	
Circuit Removal:	
Salvage audit: 95% non-ferrous metal recycling (EA Waste Directive)	
Asbestos screening: Mandatory before cutting old conduits	
Temporary Supplies:	
Hydrotreated Vegetable Oil (HVO) generators only (Net Zero compliance)	
Real-time earth monitoring (BS EN 50522:2024)	

SPECIFICATIONS

A. TRUNKING, BOXES AND CONDUITS:

- 1. OUTDOOR WIRING METHODS – INSTALLATION TO BE IN ACCORDANCE WITH BS 7671 AND BS EN STANDARDS:**
 - a. Exposed installations: Use galvanised steel conduit to BS EN 61386.
 - b. Concealed installations: Use heavy-gauge steel conduit in compliance with BS EN 61386.
 - c. Underground installations: Use heavy-duty PVC-U (dowing conforming to BS EN 61386-24 unless otherwise stated).
 - d. Connection to vibrating equipment: Use liquid-tight flexible metallic conduit or steel-wire armoured flexible cable.
 - e. Boxes and enclosures: Minimum IPX4 or IP65-rated enclosures for outdoor use.

2. INDOOR WIRING METHODS:

- a. Connection to vibrating equipment: Use flexible metallic conduit or SY cable. In wet/damp areas, use liquid-tight conduit or equivalent rated cabling.
- b. Damp or wet locations: Use galvanised steel conduit or SWA cable rated for the environment.
- c. Exposed locations: Use galvanised steel conduit or surface-mounted trunking systems.
- d. Concealed installations: Use steel conduit or LSZH (Low Smoke Zero Halogen) twin & earth cable in trunking or chased into walls.
- e. Boxes and enclosures: Use IP20-rated boxes for dry indoor locations, IP66 stainless steel or GRP for wet/damp areas.

3. All final circuits in finished areas shall be installed concealed wherever practical.

- a. Minimum conduit/trunking size shall be 20 mm diameter (or equivalent cross-sectional area).
- b. All conduit fittings shall be of metallic compression type, with nylon grommets or insulated bushings at entry points.
- c. All wiring shall be installed neatly, clipped or supported as high as practical and routed parallel/perpendicular to walls or ceiling lines.
- d. Exposed extra-low voltage wiring (e.g. data, fire, security) shall be installed within suitable trunking or conduit unless otherwise indicated.
- e. Install 1000 square boxes (minimum) with appropriate surface or flush front plates as required.
- f. Where walls are to be dry-lined or faced, and existing accessories are retained, provide approved back box extensions or relocate to allow with new surface finishes.

B. CABLES AND CONDUITS

- a. All fixed wiring shall be copper conductors, with LSZH insulation complying with BS EN 50525 or BS 6004. Minimum size: 1.5 mm² for lighting, 2.5 mm² for sockets.
- b. All cable sizes and current ratings shall comply with BS 7671 and the IET On-Site Guide.
- c. Armoured or flexible metallic cables shall include an internal green/yellow CPC (Circuit Protective Conductor) unless otherwise specified.
- d. For radial or ring final circuits over 30 metres, increase conductor size to reduce voltage drop in accordance with BS 7671, typically to 4 mm².

C. WIRING ACCESSORIES AND COMMUNICATION OUTLETS

- a. Verify exact location of all outlets, accessories and communication points with the Contract Administrator or Architect prior to installation. Minor relocations (within 1.5 m) shall be made without additional cost to the Employer.
- b. Accessory faceplates shall be selected for finish and colour by the Architect (e.g., stainless steel, white moulded, etc.).
- c. Data and communications outlet locations to be confirmed with Architect. Structured cabling and telephone wiring by specialist installer (others).
- d. All fixings and supports shall meet BS 7671 regulations and relevant building standards. Provide robust, non-corrosive support systems.

D. ELECTRICAL IDENTIFICATION

- a. All distribution boards, isolators, and major electrical equipment shall be fitted with engraved trafficfolie or equivalent labels, with minimum 25 mm high characters where visible to the public, 10 mm for plant room usage.
- b. Label access panels and doors concealing electrical apparatus with appropriate safety and identification signage in accordance with BS 7671 and Health & Safety Regulations.

E. EARTHING & BONDING

- a. All installations shall be earthed and bonded to comply with BS 7671 (latest edition). Equipotential bonding shall be provided as required.
- b. All final circuits shall include a CPC. All socket circuits shall include a minimum 2.5 mm² CPC for 2.5 mm² ring final circuits or 1.5 mm² CPC for 1.5 mm² radial circuits.
- c. Where a separately derived system (e.g., transformer or generator) is installed, provide a TT, TN-S, or TN-C-S earthing arrangement in accordance with design and local DNO approval.

F. DISTRIBUTION BOARDS

- a. 'Space' in a distribution board shall include provision for future circuit protection devices, neutral and earth bars, and proper labelling.
- b. Final circuit layout and board schedules must match the design drawings. Any changes must be authorised by the project engineer.
- c. Distribution board busbars shall be copper. All final circuit breakers shall be Type B or C MCBs or RCBOs as appropriate.
- d. Confirm characteristics of motor protection devices (curve types, trip ratings) with the mechanical services provider prior to ordering.
- e. Surface-mounted boards shall be installed with Unistrut-type steel framing or equivalent to provide structural support and clearances from the wall.
- f. For recessed boards, provide a 20 mm conduit stub for every 3 spare ways to allow future additions.
- g. Distribution boards to be from reputable manufacturers such as Schneider (Acti9), Hager, Eaton, ABB, or equivalent with UKCA/CE marking.
- h. Provide fully typed and framed circuit schedules at each board showing clearly the load served by each circuit. All existing schedules impacted by new works shall be updated accordingly.

ABBREVIATIONS

A	Ampere	N	Neutral
AFF	Above Finished Floor	(N)	Non Item
AIC	Amps Interrupting Capacity (Minimum)	NIC	Not in Contract
BGP	Building Conductor Protective	OCM	Original Equipment Manufacturer
CB	Circuit Breaker	OFCL	Owner Furnished Contractor Installed
C	Conduit	P	Pole (e.g., 1P, 3P)
CCT	Circuit	PNL	Panel (Distribution Board / Consumer Unit)
CCP	Circuit Protective Conductor	PH / Ø	Phase
EC	Empty Conduit	(R)	Remove existing and relocate
(E)	Existing to remain, continue in service	(RE)	Relocate equipment
FA	Fire Alarm	RECPT	Receptacle (UK: Socket Outlet)
FLA	Full Load Current (Amps)	RCD	Residual Current Device
G	Earth (Ground – UK uses "Earth")	SPD	Surge Protective Device
HP	Horsepower	SWA	Steel Wire Armoured Cable
Icsa/Short-Circuit Breaking Capacity (BS EN 60947-2)		UOD	To Be Determined
IP	Ingress Protection Rating	UN	Unless Otherwise Noted
kVA	Kilovolt-Amps	V	Volt
kW	Kilowatt	W	Wire
L	Line	W	With
LSZH	Low Smoke Zero Halogen	WP	Weatherproof (IP rated)
LTG	Lighting	WFMRT	Transformer
MCB	Miniature Circuit Breaker	(X)	Remove with all associated wiring
MH	Mourning Height		
MLO	Main Lug Only (not common in UK – state "main terminals only")		

WIRE & CABLE

FEEDERS:
Copper conductors only. Insulation: 90°C thermosetting (e.g., BS EN 50262-2-31 H07Z-R) or equivalent meeting BS 7671 Table 5.1. Minimum rating: 90°C.

COLOUR CODE:
All wiring: UK harmonised colours (BS 7671 Table 51 / Fig 51B):

Single-Phase: Brown (L), Blue (N), Green/Yellow (CPC).

Three-Phase: Brown (L1), Black (L2), Grey (L3), Blue (N), Green/Yellow (CPC).

Pre-2004 colours (e.g., Red/Black) prohibited.

CONDUCTORS:
All conductors: Copper. Minimum size:

1.5 mm² (lighting circuits).

2.5 mm² (general socket/radial circuits).
(Note: 1.0 mm² permitted for lighting per BS 7671, but 1.5 mm² specified for robustness/voltage drop).

CIRCUIT PROTECTIVE CONDUCTORS (CPC / EARTHING):
All final circuits: Include separate CPC. Minimum size:

1.5 mm² (if mechanically protected) / 2.5 mm² (standard practice for standard BS conductors ≤ 32A with 2.5 mm² phase conductors (per BS 7671 Table 54.7)).

CIRCUIT DISTRIBUTION & NEUTRAL SIZING:

For IT equipment/circuits with high harmonic currents:
Neutral conductor ≥ 200% capacity of phase conductors.
(Oversizing required per BS 7671 Appendix 11 to mitigate harmonic overheating).

VOLTAGE DROP MANAGEMENT:
Size conductors > 30 metres run length:
230V circuits to ensure ≤ 3% drop (lighting) / ≤ 5% drop (other) (BS 7671 Appendix 4).
Usually requires ≥ 4.0 mm² for longer runs/higher loads.

BRANCH CIRCUIT AND FEEDER

CABLE TYPES

ALL conductors: Copper to BS EN 13601:2024 (100% recycled content)

Above ground:

- Twin & Earth (T&E) to BS 6004:2024 (Class Dca-s1b,d1 fire rating)
- Steel-Wire Armoured (SWA): Only for external feeders (BS 5467)
- Non-metallic sheathed cables prohibited (BS 5222.8:10)

CUNDUIT REQUIREMENTS

Location	Permitted System	Minimum Size
Internal walls	PVC-U conduit (BS EN 61386-2)	20mm (¾")
Kitchens/bath	Galvanised steel (BS 4568:2024)	25mm (1")
External	Heavy-wall galvanised steel	25mm (1")
Underground	PVC-U (BS EN 61386-2)	32mm (1¼")

CIRCUIT PROTECTION

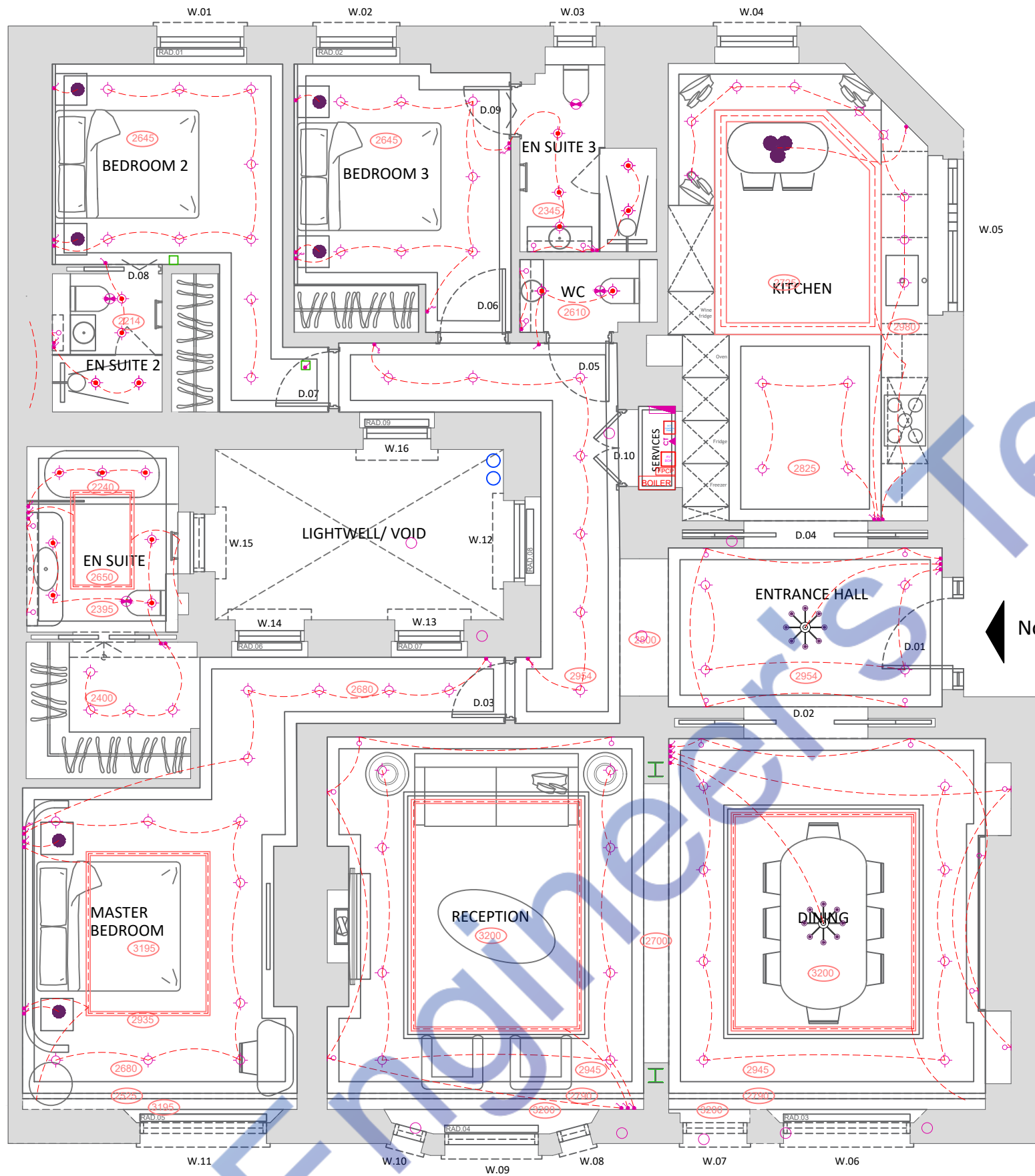
- ALL final circuits: 30mA Type A RCD (Reg 411.3.3)
- Critical circuits: (bedrooms, living rooms)
- AFDDs to BS EN 62606 (Reg 511.3.3)
- EV Chargers: Dedicated RCBO (40A min) + Type B RCD

INSTALLATION RULES

- Concealed wiring only in finished areas (No surface runs)
- Min. depths:
 - Walls: ≥50mm from surface (Reg 522.6.204)
 - Floors: Under screed/joists (No contact with insulation)
- Cable avoidance zones: ≥150mm under ceilings/corners (Reg 522.6.202)

SYMBOLS/LEGENDS			
	WALL LIGHT 10W		3-GANG ROCKERY SWITCH
	ADJUSTABLE FRAME RECESSED DOWNLIGHT 40W		2-GANG ROCKERY SWITCH
	30W CEILING MOUNT SANDAL LIGHT		SINGLE GANG ROCKERY SWITCH
	10W CEILING MOUNT SANDAL LIGHT		SMOKE DETECTOR
	40W CEILING MOUNT SANDAL LIGHT		EXTRACT FAN 40W
	IP RATED RECESSED DOWNLIGHT 20W		LINEAR LED STRIP
	DOUBLE SOCKET OUTLET 120V		CAT6 TO THE COMMUNAL DISTRIBUTION BOX (BT)
	Single Socket		CAT6 INTERNAL ETHERNET
	COOKER/HOB		SMOKE DETECTOR
	HOOD		SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER
	FRIDGE/FREEZER		EXTRACT FAN
	5 AMP SOCKET FOR LIGHTING 120V		FUSE BOX
	Microwave		3-GANG ROCKERY SWITCH
	Wine Cooler		2-GANG ROCKERY SWITCH
	MID LEVEL DOUBLE SOCKET OUTLET 120V		SINGLE GANG ROCKERY SWITCH
	HIGH LEVEL DOUBLE SOCKET OUTLET 120V		FUSED SPUR SWITCH
	LOW LEVEL DOUBLE SOCKET OUTLET 120V		SHAVER SOCKET
	HIGH LEVEL SINGLE SOCKET OUTLET 120V		HEAT DETECTOR WITH SOUNDER
	UNDER FLOOR HEATING		CEILING RECESSED SPEAKER
	COMFORT COOLING CONTROL		DOOR CONTACT SENSOR FOR LIGHTING
	VIDEO ENTRY SYSTEM		INTRUDER ALARM KEYPAD
	INTRUDER ALARM MOTION SENSOR		USB SOCKET OUTLET
	CCTV CAMERA		INTRUDER ALARM WINDOW CONTACT SWITCH
	PIR MOTION SENSOR FOR LIGHTING		INTRUDER ALARM DOOR CONTACT SWITCH

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								Client: ----		Drawing's Name: General Note of Electrical Plan			
	Date:		Paper Size:		Scale on A3:			Author:		Checker:			
	07/30/2025		A3		1:100			MP		AT			



RCP's Legend	
	WALL LIGHT 10W
	ADJUSTABLE FRAME RECESSED DOWNLIGHT 40W
	30W CEILING MOUNT SANDAL LIGHT
	10W CEILING MOUNT SANDAL LIGHT
	40W CEILING MOUNT SANDAL LIGHT
	IP RATED RECESSED DOWNLIGHT 20W
	CCTV CONTROL PANEL
	FIRE PROTECTION CONTROL PANEL
	3-GANG ROCKERY SWITCH
	2-GANG ROCKERY SWITCH
	SINGLE GANG ROCKERY SWITCH
	SMOKE DETECTOR
	EXTRACT FAN 40W
	LINEAR LED STRIP
	AV BOX
	ELECTRICAL WIRE

Color Coding Heights:

- Ceiling
- 1600mm
- 1200mm
- 750mm
- 450mm

ELECTRICAL LIGHTING PLAN

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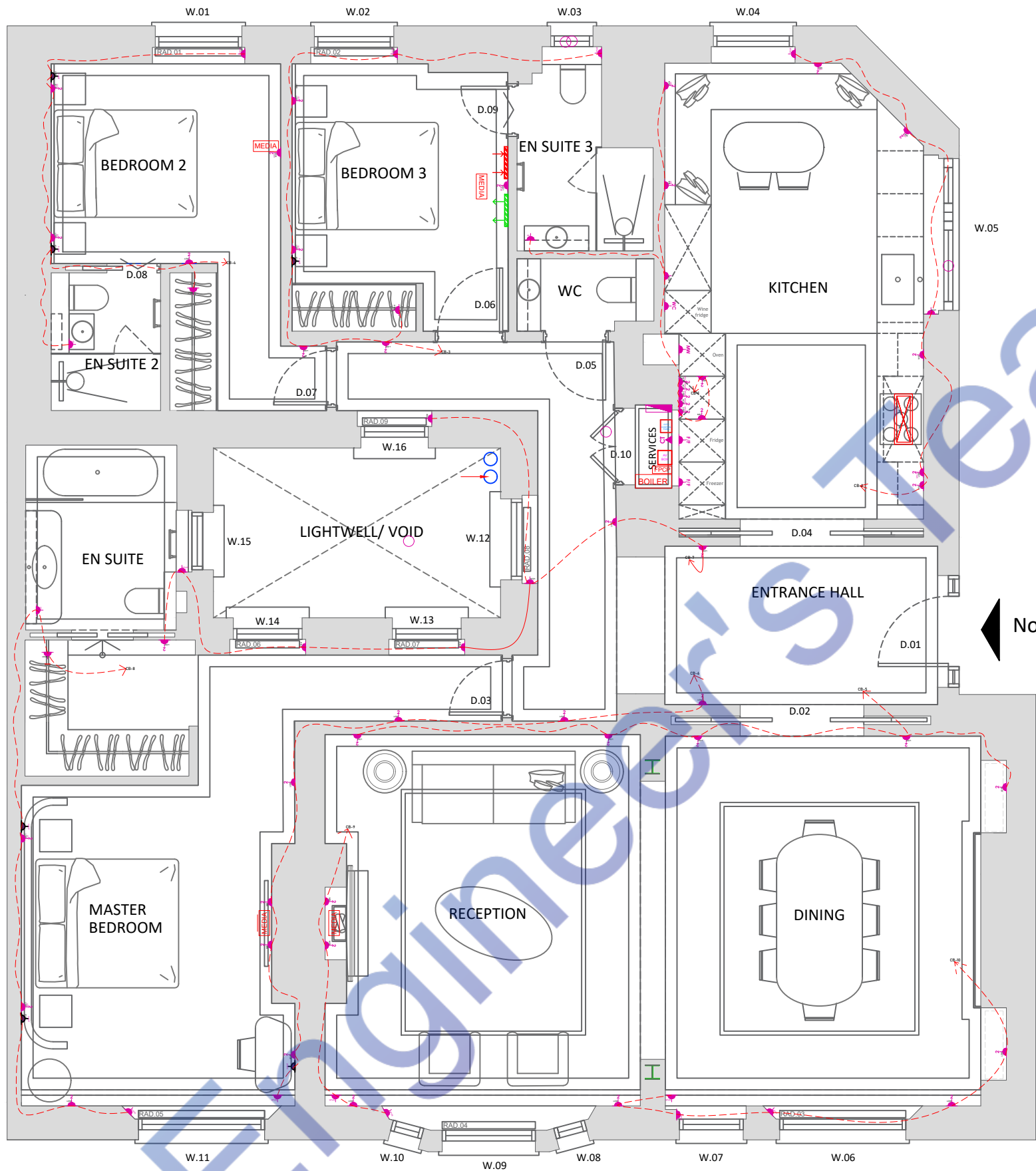
Note:

Project:	Flat 7, Second floor 7 Sloane Street London SW1X 9LE
Client:	----
Date:	07/30/2025

Drawing No.	E-1
Drawing's Name:	Electrical Lighting Plan
Author:	MP
Checker:	AT

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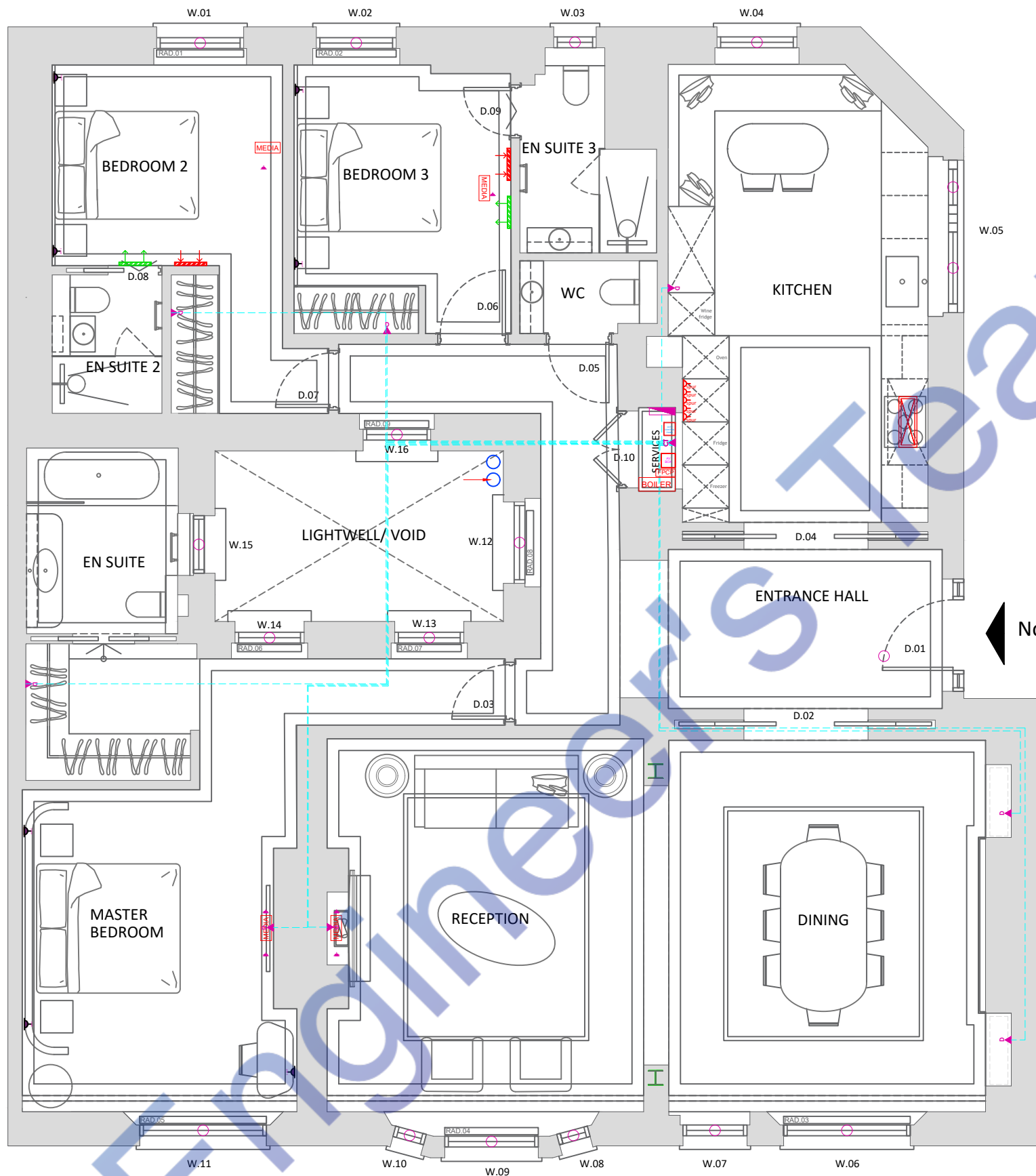
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INTRUDER ALARM MOTION SENSOR	USB SOCKET OUTLET
CCTV CAMERA	INTRUDER ALARM WINDOW CONTACT SWITCH
PIR MOTION SENSOR FOR LIGHTING	INTRUDER ALARM DOOR CONTACT SWITCH
CCTV CONTROL PANEL	AV BOX
FIRE PROTECTION CONTROL PANEL	
ELECTRICAL WIRE	

Color Coding Heights:

- Ceiling
- 1600mm
- 1200mm
- 750mm
- 450mm

ELECTRICAL POWER PLAN

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							Client: ----	Drawing's Name: Electrical Power Plan				
							Date: 07/30/2025	Paper Size: A3	Scale on A3: 1:100	Author: MP	Checker: AT	



Electrical Fixings	
DOUBLE SOCKET OUTLET 120V	CAT6 TO THE COMMUNAL DISTRIBUTION BOX (BT)
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PIR MOTION SENSOR FOR LIGHTING	INTRUDER ALARM DOOR CONTACT SWITCH
CCTV CONTROL PANEL	AV BOX
CAT6 DATA CABLE	FIRE PROTECTION CONTROL PANEL

Color Coding Heights:

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- 450mm

ELECTRICAL ETHERNET PLAN

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Rev	Description	Date	By	Key Plan:

Note:



Project:
Flat 7, Second floor 7 Sloane Street
London SW1X 9LE

Client:

Date:
07/30/2025

Paper Size:
A3

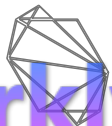
Scale on A3:
1:100

Drawing No.
E-3

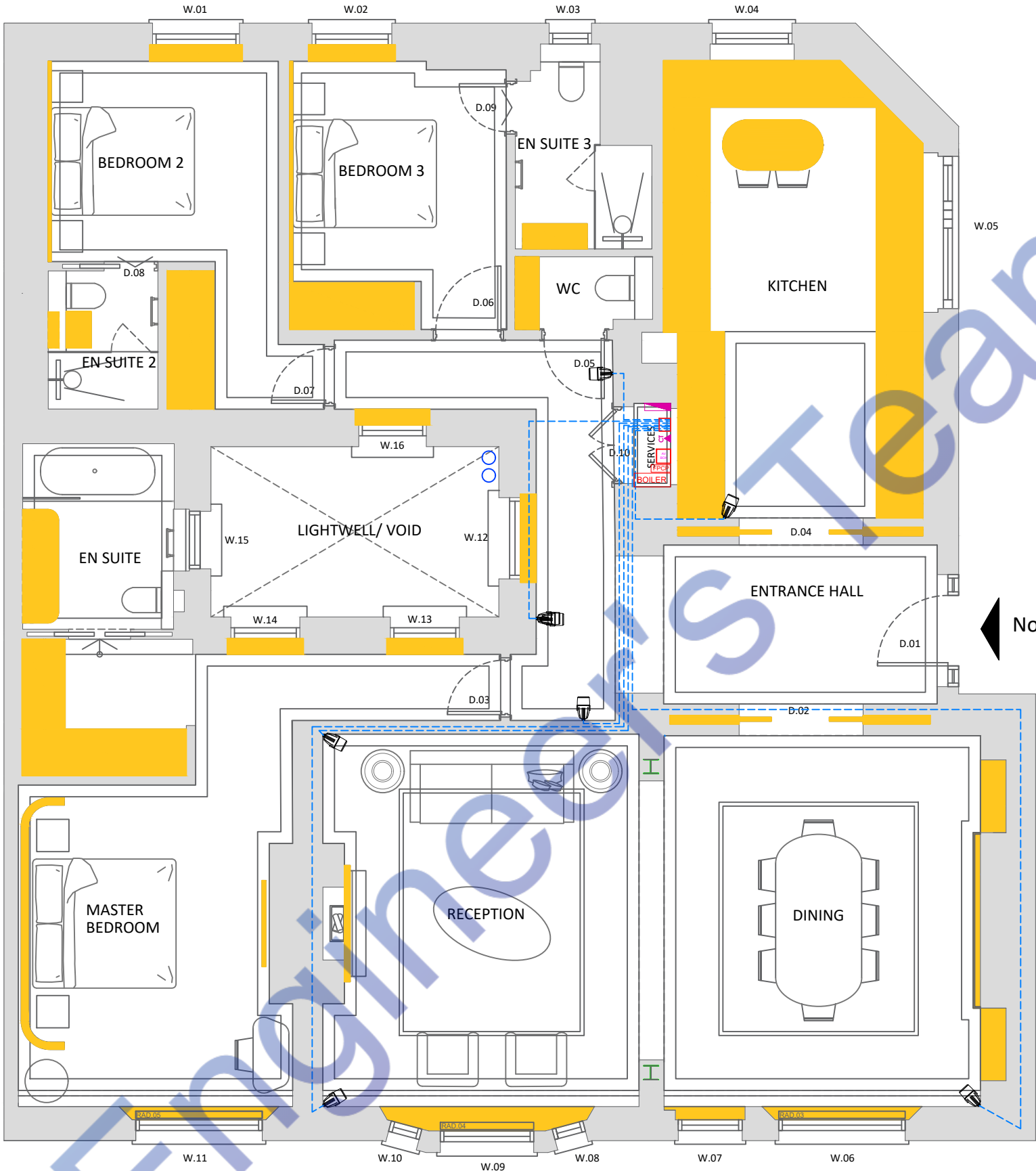
Drawing's Name:
Electrical Ethernet Plan

Author:
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Checker:
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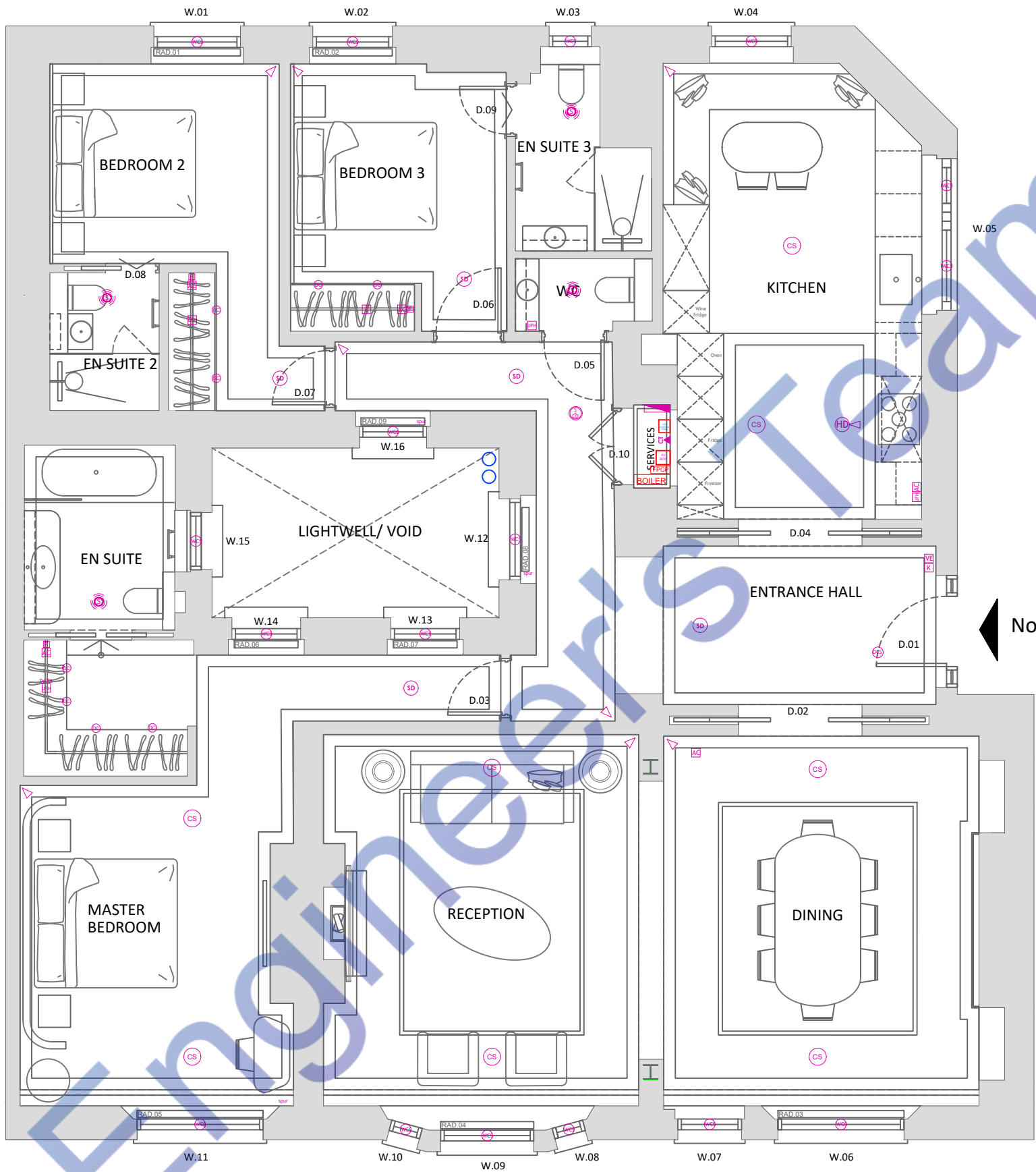
Electrical Fixings	
DOUBLE SOCKET OUTLET 120V	CAT6 to the COMMUNAL DISTRIBUTION BOX (BT)
Single Socket	CAT6 INTERNAL ETHERNET
COOKER/HOB	SMOKE DETECTOR
HOOD	SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER
FRIDGE/FREEZER	EXTRACT FAN
5 AMP SOCKET FOR LIGHTING 120V	FUSE BOX
Microwave	3-GANG ROCKERY SWITCH
Wine Cooler	2-GANG ROCKERY SWITCH
MID LEVEL DOUBLE SOCKET OUTLET 120V	SINGLE GANG ROCKERY SWITCH
HIGH LEVEL DOUBLE SOCKET OUTLET 120V	FUSED SPUR SWITCH
LOW LEVEL DOUBLE SOCKET OUTLET 120V	SHAVER SOCKET
HIGH LEVEL SINGLE SOCKET OUTLET 120V	HEAT DETECTOR WITH SOUNDER
UNDER FLOOR HEATING	CEILING RECESSED SPEAKER
COMFORT COOLING CONTROL	DOOR CONTACT SENSOR FOR LIGHTING
VIDEO ENTRY SYSTEM	INTRUDER ALARM KEYPAD
INTRUDER ALARM MOTION SENSOR	USB SOCKET OUTLET
CCTV CAMERA	INTRUDER ALARM WINDOW CONTACT SWITCH
PIR MOTION SENSOR FOR LIGHTING	INTRUDER ALARM DOOR CONTACT SWITCH
CCTV CONTROL PANEL	AV BOX
FIRE PROTECTION CONTROL PANEL	
CCTV WIRING CABLE	

Color Coding Heights:

- Ceiling
- 1600mm
- 1200mm
- 750mm
- 450mm

CCTV PLAN

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Electrical Fixings	
DOUBLE SOCKET OUTLET 120V	CAT6 TO THE COMMUNAL DISTRIBUTION BOX (BT)
Single Socket	CAT6 INTERNAL ETHERNET
COOKER/HOB	SMOKE DETECTOR
HOOD	SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER
FRIDGE/FREEZER	EXTRACT FAN
5 AMP SOCKET FOR LIGHTING 120V	FUSE BOX
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HIGH LEVEL DOUBLE SOCKET OUTLET 120V	FUSED SPUR SWITCH
LOW LEVEL DOUBLE SOCKET OUTLET 120V	SHAVER SOCKET
HIGH LEVEL SINGLE SOCKET OUTLET 120V	HEAT DETECTOR WITH SOUNDER
UNDER FLOOR HEATING	CEILING RECESSED SPEAKER
COMFORT COOLING CONTROL	DOOR CONTACT SENSOR FOR LIGHTING
VIDEO ENTRY SYSTEM	INTRUDER ALARM KEYPAD
INTRUDER ALARM MOTION SENSOR	USB SOCKET OUTLET
CCTV CAMERA	INTRUDER ALARM WINDOW CONTACT SWITCH
PIR MOTION SENSOR FOR LIGHTING	INTRUDER ALARM DOOR CONTACT SWITCH
CCTV CONTROL PANEL	AV BOX
	FIRE PROTECTION CONTROL PANEL

Color Coding Heights:

- Ceiling
- 1600mm
- 1200mm
- 750mm
- 450mm

FIRE SAFETY PLAN

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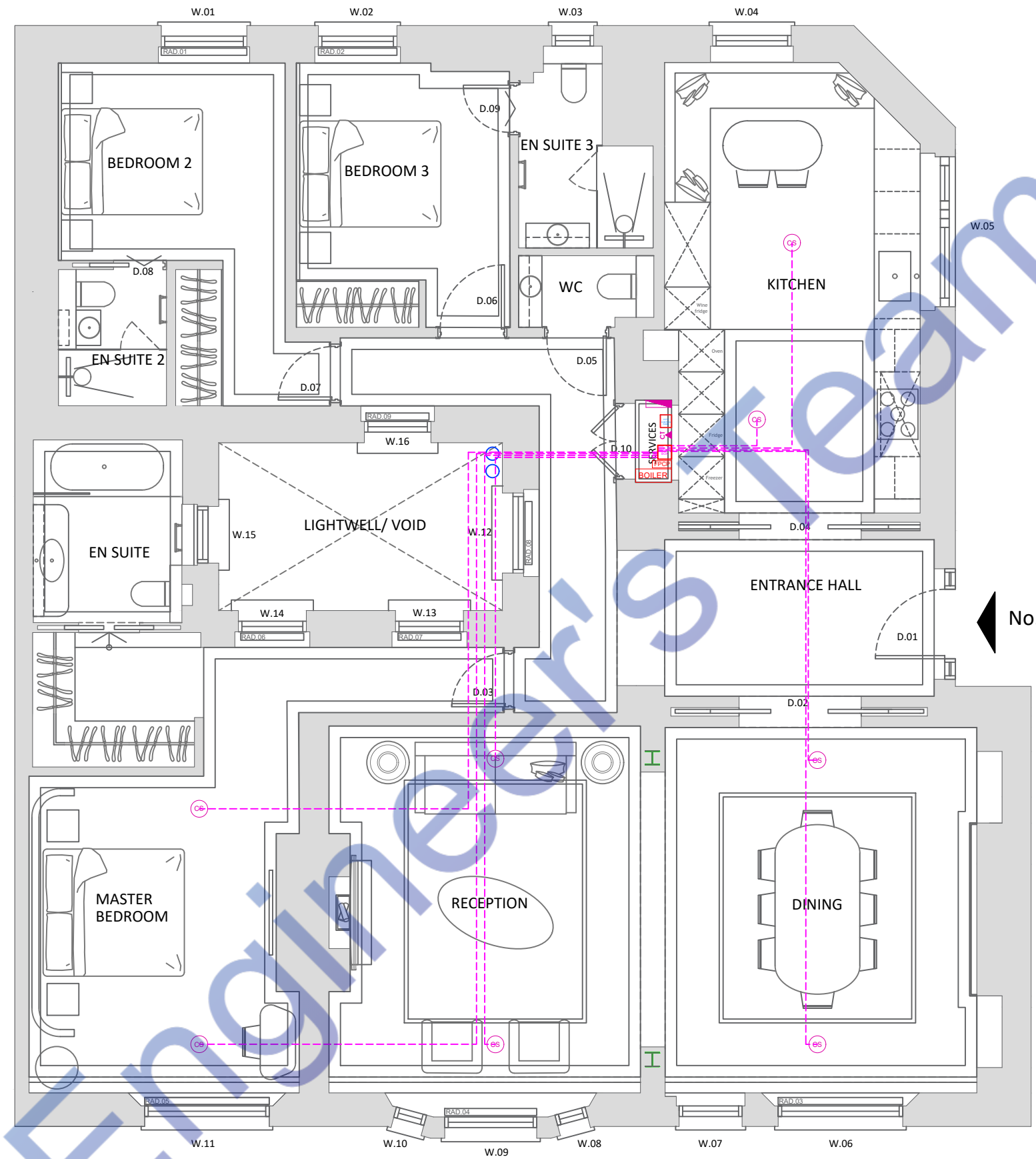
Rev	Description	Date	By	Key Plan:

Note:	

Project: Flat 7, Second floor 7 Sloane Street London SW1X 9LE			Drawing No. E-5	
Client: ----			Drawing's Name: Fire Safety Plan	
Date: 07/30/2025	Paper Size: A3	Scale on A3: 1:100	Author: MP	Checker: AT



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Electrical Fixings	
DOUBLE SOCKET OUTLET 120V	CAT6 TO THE COMMUNAL DISTRIBUTION BOX (BT)
SINGLE SOCKET	CAT6 INTERNAL ETHERNET
COOKER/HOB	SMOKE DETECTOR
HOOD	SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER
FRIDGE/FREEZER	EXTRACT FAN
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CCTV CAMERA	INTRUDER ALARM WINDOW CONTACT SWITCH
PIR MOTION SENSOR FOR LIGHTING	INTRUDER ALARM DOOR CONTACT SWITCH
CCTV CONTROL PANEL	AV BOX
	FIRE PROTECTION CONTROL PANEL
AV SYSTEM WIRE	

Color Coding Heights:

- Ceiling
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- 450mm

AV PLAN

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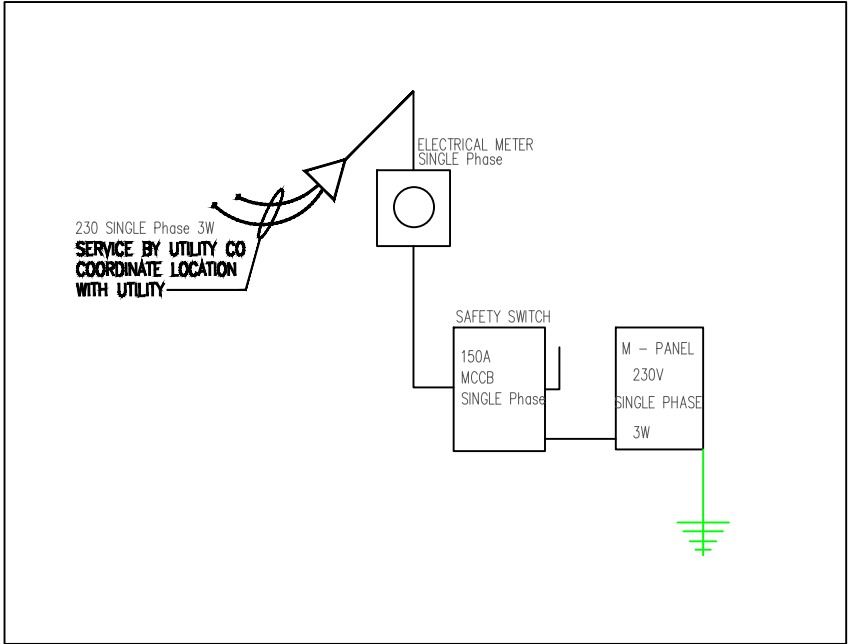


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MAIN PANEL															
Panel Location-				7 SLOANE STREET LONDON SW1											
Voltage (Phase-Ground/Phase-Phase)		230	415	Source of Supply-From Service Disconnect/Meter											
Phase- 1				Wire- 3											
Rated Amps- 110				AIC- 10k											
MCCB 150 Amps MCCB				Mounting- Wall Surface											
Circuit	Description	New/ Existing	Load Type	Breaker Size	Poles	Wire Size	A		Wire Size	Poles	Breaker Size	Load Type	New/ Existing	Description	Circuit
1	LIGHTING LOAD	N		15	1	#14	3800	200	#12	1	20		N	WINE COOLER	2
3	FRIDGE X2	N		20	1	#12	2000	4000	#12	1	20		N	OVEN	4
5	TV/MEDIA X3	N		20	1	#12	300	600	#12	1	20		N	CB-6	6
7	CB-1	N		20	1	#12	800	500	#12	1	20		N	CB-7	8
9	CB-2	N		20	1	#12	600	500	#12	1	20		N	CB-8	10
11	CB-3	N		20	1	#12	500	300	#12	1	20		N	CB-9	12
13	CB-4	N		20	1	#12	500	500	#12	1	20		N	CB-10	14
15	CB-5	N		20	1	#12	300	8000	#8	1	35		N	BOILER	16
17	LIGHTING LOAD 2	N		15	1	#12	1900	0	--	--	--		--	SPARE	18
19	SPARE	--	--	--		--	0	0	--	--	--		--	SPARE	20

				A	
				Connected Load (W)	25300
				Connected Amps	110
				Main Type and Amps Rating	150 Amps MCCB

Demand Load Calculation			
Load Classification	Connected Load	Demand Factor	Estimated Demand
Lighting - Dwelling Unit	3800	125%	4750
Water Heater - Dwelling Unit	8000	100%	8000
Receptacle	13500	65%	8775
Cooling	0	100%	0
Pump	0	125%	0
Other	0	100%	0
Demand Load	25300		21525
Demand Amps			94



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Drawing's Name:

Electrical Load Schedule & SLD



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GENERAL NOTES:

1. A LISTED INTERSYSTEM BONDING TERMINATION PROVIDING THE REQUIRED NUMBER OF TERMINALS (MINIMUM OF THREE) FOR CONNECTING OTHER BUILDING SYSTEMS TO THE GROUNDING SYSTEM OF THE ELECTRICAL POWER SUPPLY (NEC250.44).

KEY NOTES: ①

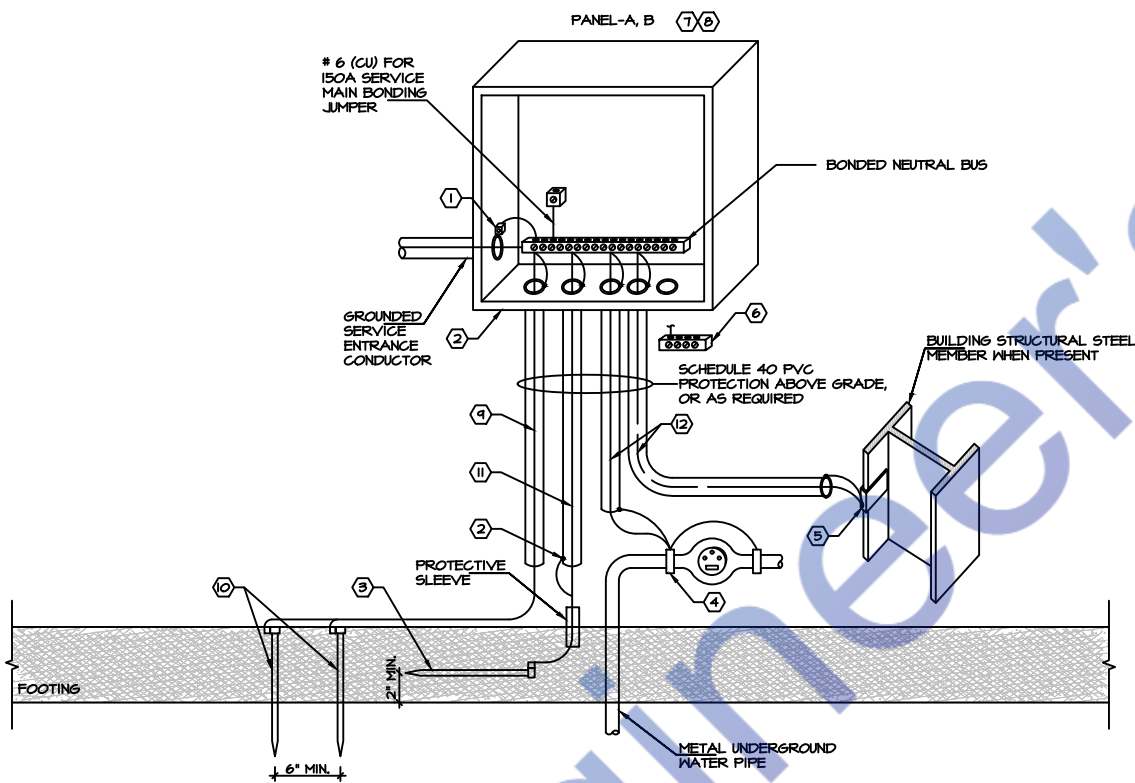
1. ALL METAL CONDUITS ENCLOSING ANY SERVICE SHALL BE FITTED WITH A "BONDING BUSHING".
2. ALL METAL CONDUITS ENCLOSING ANY GROUNDING ELECTRODE CONDUCTOR SHALL BE FITTED WITH A "BONDING BUSHING" AT EACH END.
3. PROVIDE GROUNDING ELECTRODE PER NEC. ELECTRODE SHALL BE IN THE FORM OF A 20'-0" x 1/2" COPPER CLAD GROUND ROD LAID AT LEAST 2' OFF THE BOTTOM OF A CONCRETE FOOTING. SECURE THE GROUND ROD TO THE REBAR WITH STEEL TIE WRAPS. IF THE REBAR BEING USED IN THE FOOTING IS SMALLER THAN 1/2" (#4), THEN USE 20' OF BARE

- SOLID #4 COPPER WIRE IN PLACE OF THE GROUND ROD. IN REMODEL PROJECTS THAT WILL NOT HAVE NEW FOOTINGS INSTALLED, THIS SUPPLEMENTAL ELECTRODE SHALL BE PER NOTE #4 BELOW OR OTHER ELECTRODE PER NEC 250.52.
4. FOR CONNECTION TO COLD WATER MAIN. CONNECT WITHIN 5 FT. OF CONTACT OF EARTH.
5. IF STRUCTURAL STEEL MEMBER OR REBARS ARE AVAILABLE, BOND IT TO THE SERVICE USING A UL LISTED IRREVERSIBLE CLAMP OR WELDING LUG.
6. PROVIDE A INTERSYSTEM BONDING TERMINATION PER NEC 250.94.

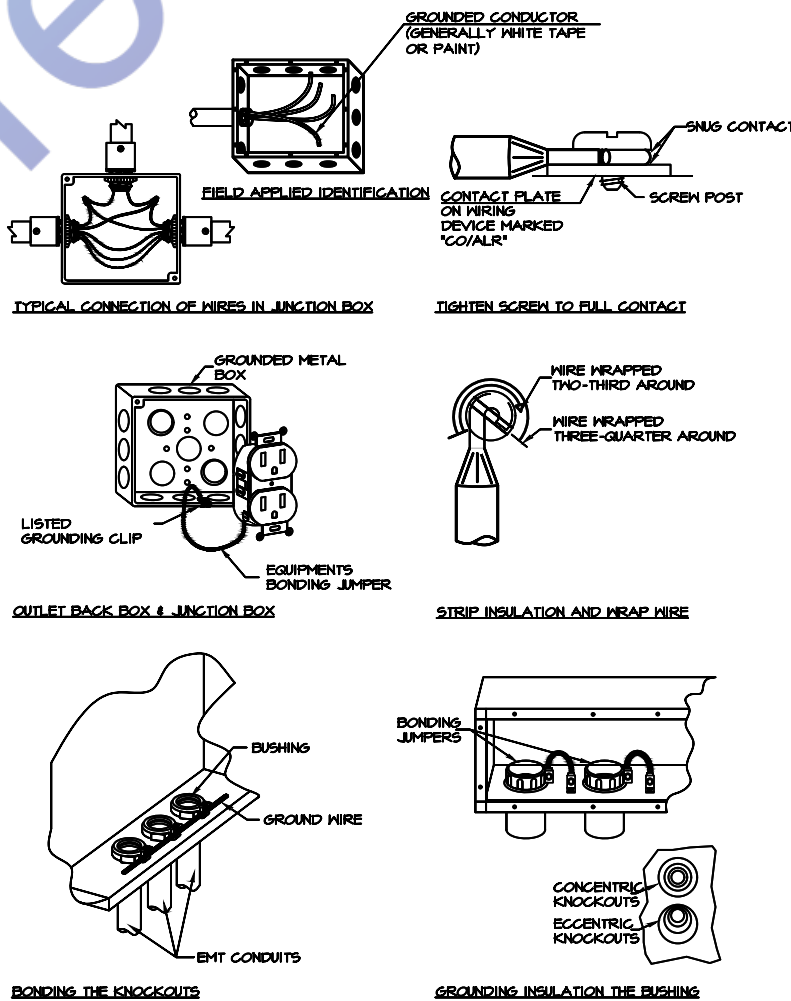
- INTERSYSTEM BONDING TERMINATION SHALL:
- 6.1. BE ACCESSIBLE FOR CONNECTION AND INSPECTION.
- 6.2. CONSIST OF A SET OF TERMINALS (LISTED AS GROUNDING AND BONDING EQUIPMENT) WITH THE CAPACITY OF NOT LESS THAN THREE INTERSYSTEM BONDING CONDUCTORS.
- 6.3. BE SECURELY MOUNTED AND ELECTRICALLY CONNECTED TO SERVICE EQUIPMENT, METER ENCLOSURE, OR EXPOSED NON METALLIC SERVICE RACEWAY, OR BE MOUNTED ON ONE OF THESE ENCLOSURES AND BE CONNECTED TO THE ENCLOSURE OR GROUNDING

- ELECTRODE CONDUCTOR WITH A MINIMUM #6 CU CONDUCTOR.
- 6.4. BE SECURELY MOUNTED TO THE BUILDING'S DISCONNECTING MEANS, OR BE MOUNTED AT THE DISCONNECTING MEANS AND BE CONNECTED TO THE METALLIC ENCLOSURE OR GROUNDING ELECTRODE CONDUCTOR WITH A MINIMUM #6 CU CONDUCTOR.
7. ALL BRANCH CIRCUIT AND FEEDER CONDUITS ARE TO HAVE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR REGARDLESS OF THE CONDUIT MATERIAL.
8. WHEN THE SERVICE CONSISTS OF MULTIPLE DISCONNECTING MEANS IN SEPARATE ENCLOSURES, CONNECT A TAP

- CONDUCTOR FROM THE MAIN GROUNDING ELECTRODE CONDUCTOR TO EACH DISCONNECTING MEANS. SIZE THIS TAP BASED ON THE LARGEST SERVICE CONDUCTOR IN THAT SERVICE DISCONNECT ENCLOSURE.
9. #6 COPPER GROUNDING ELECTRODE CONDUCTOR.
10. INSTALL #6 CU TO TWO 5/8" x 8' MIN. GROUND RODS AS SHOWN.
11. #4 COPPER GROUNDING ELECTRODE CONDUCTOR.
12. COPPER GROUNDING ELECTRODE CONDUCTOR. PROVIDE #6 COPPER



1 GROUNDING ELECTRODE SYSTEM DIAGRAM
SCALE: NOT TO SCALE



1 BONDING DETAILS
SCALE: NOT TO SCALE

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Designed By Engr. Al Amin (MEP Engineer | Director - Engineer's Team LTD)

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