

GENERAL SPECIFICATIONS
1. GENERAL: A. WORK INDICATED: Drawings are diagrammatic – do not scale 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 compliant, complete installation. C. COMPLETION & TESTING: All equipment shall be commissioned, tested, and handed over operational to the Employer's satisfaction. "Provide" means supply, install, commission, and make ready for use. D. MATERIALS & EQUIPMENT: All materials/equipment shall be new, CE/UKCA marked (as required), and compliant with UKCA Regulations 2023. Compatible with existing interfaces. Install per manufacturer's instructions and BS/IEC 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 spatial/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 1989 • CIBSE/BSRIA Codes of Practice 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-off Deliver 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), GDNO (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 ordering/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.

BRANCH CIRCUITRY AND FEEDER

CABLE TYPES	ALL conductors: Copper to BS EN 13601:2024 (100% recycled content)
Above ground:	Twin & Earth (T&E) to BS 6904:2024 (Class Dca-s1b,d1 fire rating)
Steel-Wire Armoured (SWA):	Only for external feeds (BS 5467)
Non-metallic sheathed cables prohibited (Reg 522.8.10)	
CONDUIT REQUIREMENTS	
Location	Permitted System Minimum Size
Internal walls	PVC-U conduit (BS EN 61386-21) 20mm (3/4")
Kitchens/bath	Galvanised steel (BS 4568:2024) 25mm (1")
External	Heavy-wall galvanised steel 25mm (1")
Underground	PVC-U (BS EN 61386-24) 32mm (1 1/4")
CIRCUIT PROTECTION	
ALL final circuits:	30mA Type A RCD (Reg 411.3.3)
Critical circuits (bedrooms, living rooms):	AFDDs to BS EN 62606 (Reg 531.3.3)
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/joints (No contact with insulation)
Cable avoidance zones:	±150mm around ceilings/corners (Reg 522.6.202)

ELECTRICAL CODE NOTES
UK ELECTRICAL 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 (≤ 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 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 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.

MISCELLANEOUS ELECTRICAL

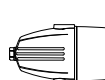
1. EARTHING & BONDING *(BS 7671:2022 Amd 2 Chapter 54, BS EN 62305-3:2024)*
1.1 Equipment Bonding Conductors: Size per Table 54.7 (e.g., 10mm² for s32A circuits) Comply with Regulation 411.3.1.2 (automatic disconnection)
1.2 Device Earthing: All accessories/switches to have CPC (Circuit Protective Conductor) Regulation 411.3.1.1 compliance for exposed-conductive-parts
1.3 Main Earthing: 16mm² minimum for TN-C-S systems (Regulation 542.3.1) Foundation electrode required per Regulation 542.2.1.4
2. FIRE PENETRATION SEALING *(Building Regs Part B 2023, BS EN 1366-4:2024, BS 7671:527.2)*
2.1 Fire Compartment Seals: Use BS EN 1366-4 certified systems (EI 60/90/120 rating) Submit manufacturer's Third-Party Certification (UKCA/UKAS)
2.2 Temperature Transition Seals: Apply non-setting compound (BS EN 60423-1:2024) for: Cold storage penetrations Internal-external transitions Hygroscopic sealing putty for condensation control (e.g., Roxtec CMS)
3. VERIFICATION & TESTING *(BS 7671:2022 Amd 2 Part 6, BS EN 60364-6:2024)*
3.1 Final Certification: Complete Schedule of Inspections (Reg 641.1) Pass mandatory tests: ≥100MΩ insulation resistance (Reg 643.3) RCD trip ≤25ms (Reg 643.8) Ze ≤0.35Ω for TN-C-S (Reg 643.7)
4. CONTAINMENT LABELING (BS 7671:514.9, BS 1710:2024, Building Safety Act 2022)
4.1 Feeder Identification: Laser-etched labels with: Source DB Load designation Fault current rating 15mm letter height (was 3/4")
4.2 Junction Box Marking: Machine-readable QR codes containing: Circuit origin (e.g., "DB3/C5") Installation date Test certificate reference

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 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 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 (EPA Waste Directive)
Asbestos screening: Mandatory below existing old conduits
Temporary Supplies:
Hydro-testable Voltage (HVO) generators only (Net Zero compliance)
Real-time air quality monitoring (BS EN 50522:2024)

WIRE & CABLE
FEEDERS: Copper conductors only. Insulation: 90°C thermosetting (e.g., BS EN 50525-2-21 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 circuits ≤ 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: 230V circuits > 30 metres run length: Size conductors to ensure ≤ 3% drop (lighting) / ≤ 5% drop (other) (BS 7671 Appendix 4). Typically requires ≥ 4.0 mm² for longer runs/high loads.

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 ducting 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.
4. Minimum conduit/trunking size shall be 20 mm diameter (or equivalent cross-sectional area).
5. All conduit fittings shall be of metallic compression type, with nylon grommets or insulated bushings at entry points.
6. All wiring shall be installed neatly, clipped or supported as high as practical and routed parallel/perpendicular to walls or ceiling lines.
7. Exposed extra-low voltage wiring (e.g. data, fire, security) shall be installed within suitable trunking or conduit unless otherwise indicated.
8. Install 100 mm square boxes (minimum) with appropriate surface or flush front plates as required.
9. Where walls are to be dry-lined or faced, and existing accessories are retained, provide approved back box extensions or relocate to align with new surface finishes.
B. CABLES AND CONDUCTORS 1. 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.
2. All cable sizes and current ratings shall comply with BS 7671 and the IET On-Site Guide.
3. Armoured or flexible metallic cables shall include an internal green/yellow CPC (Circuit Protective Conductor) unless otherwise specified.
4. 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 1. 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.
2. Accessory faceplates shall be selected for finish and colour by the Architect (e.g., stainless steel, white polished, etc.).
3. Data and communications outlet locations to be confirmed with Architect. Structured cabling and telephone wiring by specialist installer (others).
4. All fixings and supports shall meet BS 7671 regulations and relevant building standards. Provide robust, non-combustible support systems.
D. ELECTRICAL IDENTIFICATION 1. All distribution boards, isolators, and major electrical equipment shall be fitted with engraved traffic/tytloc or equivalent labels, with minimum 25 mm high characters where visible to the public, 10 mm for plant room usage.
2. 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 1. All installations shall be earthed and bonded to comply with BS 7671 (latest edition). Equipotential bonding shall be provided as required.
2. 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.
3. Where a separately derived system (e.g., transformer/generator) is installed, provide a TT, TN-S, or TN-C-S earthing arrangement in accordance with design and local authority approval.
F. DISTRIBUTION BOARDS 1. 'Space' in a distribution board shall include provision for future circuit protection devices, neutral and earth bars, and proper labelling.
2. Final circuit circuit breakers must match the design drawings. Any changes must be authorised by the project engineer.
3. Distribution board busbars shall be copper. All final circuit breakers shall be Type B or C MCBs or RCBOs as appropriate.
4. Confirm characteristics of mould protection devices (curve types, trip ratings) with the mechanical services provider prior to ordering.
5. Surface-mounted boards shall be installed with Unistrut-type steel framing or equivalent to provide structural support and clearances from the wall.
6. For recessed boards, provide a 20 mm conduit stub for every 3 spare ways to allow future additions.
7. Distribution boards to be from reputable manufacturers such as Schneider (Acti9), Hager, Eaton, ABB, or equivalent with UKCA/CE marking.
8. Provide neatly 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 AFF Above Finished Floor AIC Amps Interrupting Capacity (Minimum) BCP Bonding Conductor Protective CB Circuit Breaker C Conduit CCT Circuit CPC Circuit Protective Conductor EC Empty Conduit (E) Existing to remain, continue in service FA Fire Alarm FLA Full Load Current (Amps) G Earth (Ground – UK uses "Earth") HP Horsepower Ics/IcuShort-Circuit Breaking Capacity (BS EN 60947-2) IP Ingress Protection Rating kVA Kilovolt-Amps kW Kilowatt L Live LSZH Low Smoke Zero Halogen LTG Lighting MCB Miniature Circuit Breaker MH Mounting Height MLO Main Lug Only (not common in UK – state "main terminals only")	N Neutral (N) New item NIC Not in Contract OEM Original Equipment Manufacturer OFCI Owner Furnished Contractor Installed P Pole (e.g., IP, 3P) PNL Panel (Distribution Board / Consumer Unit) PH / Ø Phase (R) Remove existing and relocate (RE) Relocated equipment RECPY Receptacle (UK: Socket Outlet) RCD Residual Current Device SPD Surge Protective Device SWA Steel Wire Armoured Cable TBD To Be Determined UON Unless Otherwise Noted V Volt W Wire W/ With WP Weatherproof (IP rated) XFMX Transformer (X) Remove with all associated wiring

SYMBOLS/LEGENDS			
	WALL LIGHT 10W		3-GANG ROCKERY SWITCH
	ADJUSTABLE FRAME RECESSED DOWLIGHT 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 DOWLIGHT 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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REV. NO.	DESCRIPTION	DATE	BY
PROJECT: OFFICE ELECTRICAL DESIGN			
TITLE: GENERAL NOTE OF ELECTRICAL PLAN			
PROJ. NO.	PROJ. ENGR. AA	SCALE @ 24X36: N/A	
DATE : May 11, 2026			
DRAWING NO.		REV.	
E-00			



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SUPPORT TO THE BUILDING AND ANY ADJACENT
STRUCTURES.

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: OFFICE ELECTRICAL DESIGN

TITLE: **ELECTRICAL
LIGHTING PLAN**

PROJ. NO.	PROJ. ENGR. AA	SCALE @ 24X36: 1:1200
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DATE :
May 11, 2026

DRAWING NO.	REV.
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E-01

Legend:

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|--|---|--|-----------------------------------|
| | WALL LIGHT 10W | | 3-WAY ROCKERY SWITCH |
| | ADJUSTABLE FRAME
RECESSED DOWLIGHT 20W | | 2-WAY ROCKERY SWITCH |
| | SUSPENDED 3600MM
LINEAR LIGHT 120W | | SCENE SET SWITCH |
| | SUSPENDED 1500MM
LINEAR LIGHT 60W | | EXTRACT FAN (ICON 15
ECO) 30W |
| | 1200MM BATTEN LIGHT
36W | | PER METER LINEAR LED
STRIP 10W |
| | CEILING MOUNT
PENDENT LIGHT 10W | | ISOLATOR SWITCH |
| | SUSPENDED CAN
LIGHT 20W | | S22 ILLUMINATED EXIT
SIGN 4W |
| | PIR SENSOR | | AREA CONTROLLER |
| | LIGHTING CONTROL
MODULE | | MOTION SENSOR LIGHT
20W |
| | ABSENCE DETECTOR
SENSOR / CONTROLLER | | 300mm TRAY WORK |

NOTE:

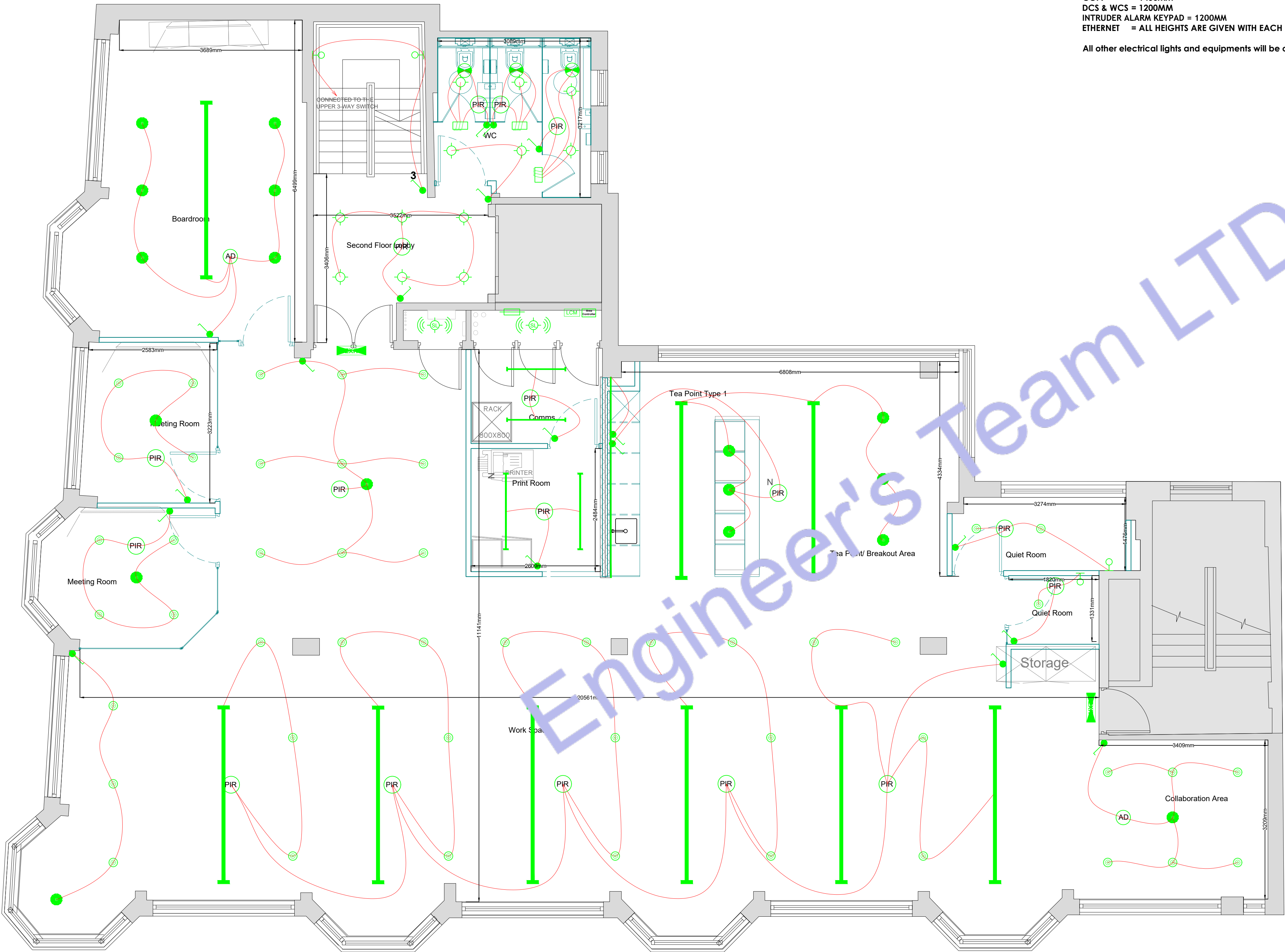
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT EDITION OF BS 7671:2018 IET WIRING REGULATIONS (18TH EDITION), INCLUDING AMENDMENT 4:2026, AND ALL APPLICABLE UK BUILDING REGULATIONS.
- ELECTRICAL DESIGN, INSTALLATION, TESTING, INSPECTION, AND COMMISSIONING SHALL BE CARRIED OUT IN ACCORDANCE WITH:
 - BS 7671:2018 + AMENDMENT 4:2026
 - BS EN 12464-1 LIGHTING OF INDOOR WORKPLACES
 - CIBSE LIGHTING GUIDE LG7
 - BUILDING REGULATIONS PART B (FIRE SAFETY)
 - BUILDING REGULATIONS PART L (CONSERVATION OF FUEL AND POWER)
 - BUILDING REGULATIONS PART M (ACCESS TO AND USE OF BUILDINGS)
 - IEC AND BRITISH STANDARD REQUIREMENTS WHERE APPLICABLE.
- ALL LIGHTING FIXTURES SHALL BE HIGH-EFFICIENCY LED TYPE AND SHALL BE SUITABLE FOR COMMERCIAL OFFICE APPLICATIONS WITH DALI DIMMING COMPATIBILITY.
- LIGHTING DESIGN LEVELS SHALL COMPLY WITH BS EN 12464-1 AND CIBSE RECOMMENDED LUX LEVELS FOR OFFICE, MEETING, COLLABORATION, BREAKOUT, AND CIRCULATION SPACES.
- ABSENCE DETECTOR SENSOR / CONTROLLER SYSTEMS SHALL BE PROVIDED IN:
 - COLLABORATION AREAS
 - BOARDROOMS
 - MEETING ROOMSFOR LIGHTING CONTROL OPERATION WITH MANUAL ON / AUTOMATIC OFF FUNCTIONALITY.
- PIR OCCUPANCY SENSORS SHALL BE PROVIDED IN:
 - WC AREAS
 - PRINT ROOMS
 - STORE ROOMS
 - COMMS ROOMS
 - MECHANICAL ROOMS
 - OTHER LOW OCCUPANCY AREASTO PROVIDE AUTOMATIC LIGHTING CONTROL AND ENERGY SAVING OPERATION.
- BATHROOM EXHAUST FANS SHALL BE INTERLOCKED WITH PIR OCCUPANCY SENSOR CONTROL AND PROVIDED WITH ADJUSTABLE OVERRUN TIMER CONTROL.
- LIGHTING CONTROL MODULES AND AREA CONTROLLERS SHALL BE PROVIDED TO ENABLE CENTRALIZED LIGHTING CONTROL, DIMMING, SCHEDULING, MONITORING, AND ZONING OF ALL LIGHTING SYSTEMS.
- ALL LIGHTING CONTROL EQUIPMENT SHALL BE FULLY COMPATIBLE WITH THE DALI LIGHTING CONTROL SYSTEM AND SHALL BE COORDINATED WITH ARCHITECTURAL AND INTERIOR DESIGN REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT, DEVICES, MATERIALS, AND ACCESSORIES SHALL BE UL, CE, UKCA, OR EQUIVALENT APPROVED PRODUCTS SUITABLE FOR INSTALLATION WITHIN THE UNITED KINGDOM.
- ALL ELECTRICAL PRODUCTS AND INSTALLATION METHODS SHALL COMPLY WITH CURRENT PRODUCT APPROVAL REQUIREMENTS, FIRE PERFORMANCE STANDARDS, ENERGY EFFICIENCY REQUIREMENTS, AND MANUFACTURER INSTALLATION INSTRUCTIONS APPLICABLE TO COMMERCIAL OFFICE BUILDINGS IN LONDON, EC1Y 8ND.
- CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, DIMENSIONS, CEILING HEIGHTS, AND SERVICE COORDINATION REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICES WITH HVAC, MECHANICAL, FIRE ALARM, ARCHITECTURAL, AND REFLECTED CEILING PLANS PRIOR TO INSTALLATION.
- ALL CABLING SHALL BE INSTALLED IN ACCORDANCE WITH BS 7671 REQUIREMENTS FOR CONDUCTOR SELECTION, FIRE PERFORMANCE, MECHANICAL PROTECTION, AND SUPPORT SYSTEMS.
- ALL FINAL CIRCUITS SERVING LIGHTING, HVAC EQUIPMENT, MINI SPLIT SYSTEMS, CONTROLS, AND ANCILLARY DEVICES SHALL BE PROVIDED WITH APPROPRIATE CIRCUIT PROTECTION, ISOLATION, AND EARTHING IN ACCORDANCE WITH BS 7671 REQUIREMENTS.
- MINI SPLIT HVAC SYSTEM ELECTRICAL CONNECTIONS SHALL COMPLY WITH MANUFACTURER REQUIREMENTS, MAXIMUM DEMAND CALCULATIONS, ISOLATION REQUIREMENTS, AND LOCAL ELECTRICAL SAFETY REGULATIONS.
- PROVIDE ACCESSIBLE LOCAL ISOLATORS FOR ALL HVAC EQUIPMENT, LIGHTING CONTROL PANELS, AND MECHANICAL EQUIPMENT IN ACCORDANCE WITH BS 7671 AND MAINTENANCE REQUIREMENTS.
- ALL ELECTRICAL INSTALLATIONS SHALL BE TESTED, INSPECTED, AND CERTIFIED PRIOR TO HANDOVER. PROVIDE ELECTRICAL INSTALLATION CERTIFICATES, TEST REPORTS, AND COMMISSIONING DOCUMENTATION IN ACCORDANCE WITH CURRENT BS 7671 REQUIREMENTS.
- FINAL LIGHTING LEVELS, CONTROL OPERATION, EMERGENCY LIGHTING, AND ENERGY PERFORMANCE SHALL BE VERIFIED DURING COMMISSIONING PRIOR TO FINAL PROJECT COMPLETION.

Note:

Interior Lighting Efficiency
Each interior fixed lighting fitting shall provide a lamp with a luminous efficacy of at least 75 lumens per circuit watt with installation.

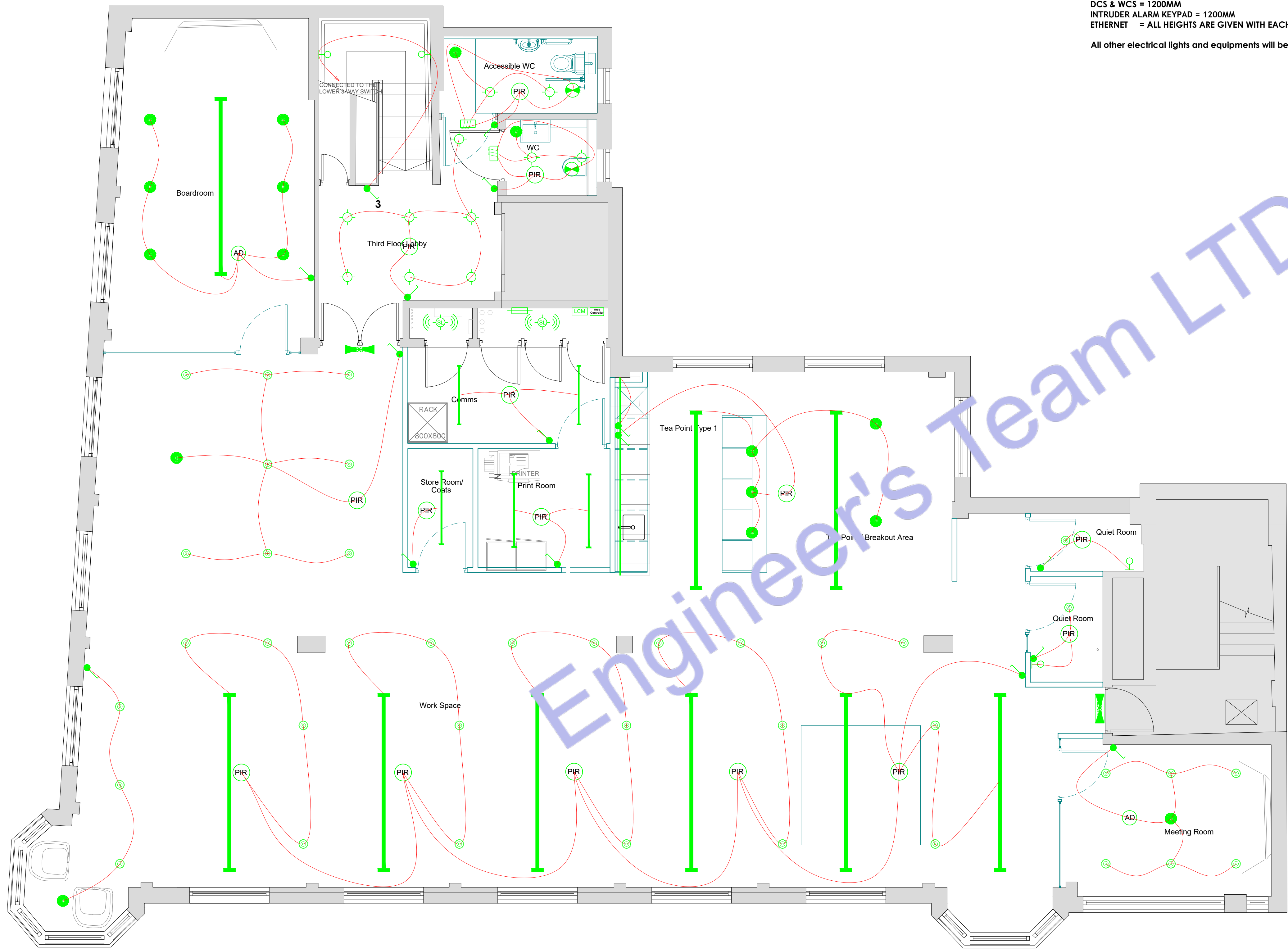
Equipments Height:
SWITCH = 1200MM
ISOLATOR = 1450MM
WALL LIGHT = 1450MM
PANEL BOX = 1450MM
CT = 1450MM
FPCP = 1450MM
AV BOX = 1450MM
CCTV CP = 1450MM
EMERGENCY= 1450MM
SOCKET = ALL HEIGHTS ARE GIVEN WITH EACH SOCKET
CCTV = 1450MM
DCS & WCS = 1200MM
INTRUDER ALARM KEYPAD = 1200MM
ETHERNET = ALL HEIGHTS ARE GIVEN WITH EACH ETHERNET PORT

All other electrical lights and equipments will be on the ceiling



1 LEVEL_02 ELECTRICAL LIGHTING PLAN

SCALE: 1/100" = 1'-0"



Note:
Interior Lighting Efficiency

Each interior fixed lighting fitting shall provide a lamp with a luminous efficacy of at least 75 lumens per circuit watt with installation.

- Equipments Height:
SWITCH = 1200MM
ISOLATOR = 1450MM
WALL LIGHT = 1450MM
PANEL BOX = 1450MM
CT = 1450MM
FPCP = 1450MM
AV BOX = 1450MM
CCTV CP = 1450MM
EMERGENCY= 1450MM
SOCKET = ALL HEIGHTS ARE GIVEN WITH EACH SOCKET
CCTV = 1450MM
DCS & WCS = 1200MM
INTRUDER ALARM KEYPAD = 1200MM
ETHERNET = ALL HEIGHTS ARE GIVEN WITH EACH ETHERNET PORT

All other electrical lights and equipments will be on the ceiling

Legend:

- WALL LIGHT 10W
- ADJUSTABLE FRAME
RECESSED DOWLIGHT 40W
- SUSPENDED 3600MM
LINEAR LIGHT 120W
- SUSPENDED 1500MM
LINEAR LIGHT 60W
- 1200MM BATTEN LIGHT
36W
- CEILING MOUNT
PENDENT LIGHT 10W
- SUSPENDED CAN
LIGHT 20W
- PIR

PIR SENSOR
- LCM

LIGHTING CONTROL
MODULE
- AD

ABSENCE DETECTOR
CONTROLLER

3

3-WAY ROCKERY SWITCH

2

2-WAY ROCKERY SWITCH

SCENE SET SWITCH

SCENE SET SWITCH

EXTRACT FAN (ICON 15
ECO) 30W

EXTRACT FAN (ICON 15
ECO) 30W

PER METER LINEAR LED
STRIP 10W

PER METER LINEAR LED
STRIP 10W

ISOLATOR SWITCH

ISOLATOR SWITCH

S22 ILLUMINATED EXIT
SIGN 4W

S22 ILLUMINATED EXIT
SIGN 4W

Area
Controller

AREA CONTROLLER

MOTION SENSOR LIGHT
20W

MOTION SENSOR LIGHT
20W

300mm TRAY WORK

300mm TRAY WORK

2 LEVEL 03 ELECTRICAL LIGHTING PLAN
SCALE: 1/100" = 1'-0"



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REV. NO.	DESCRIPTION	DATE	BY

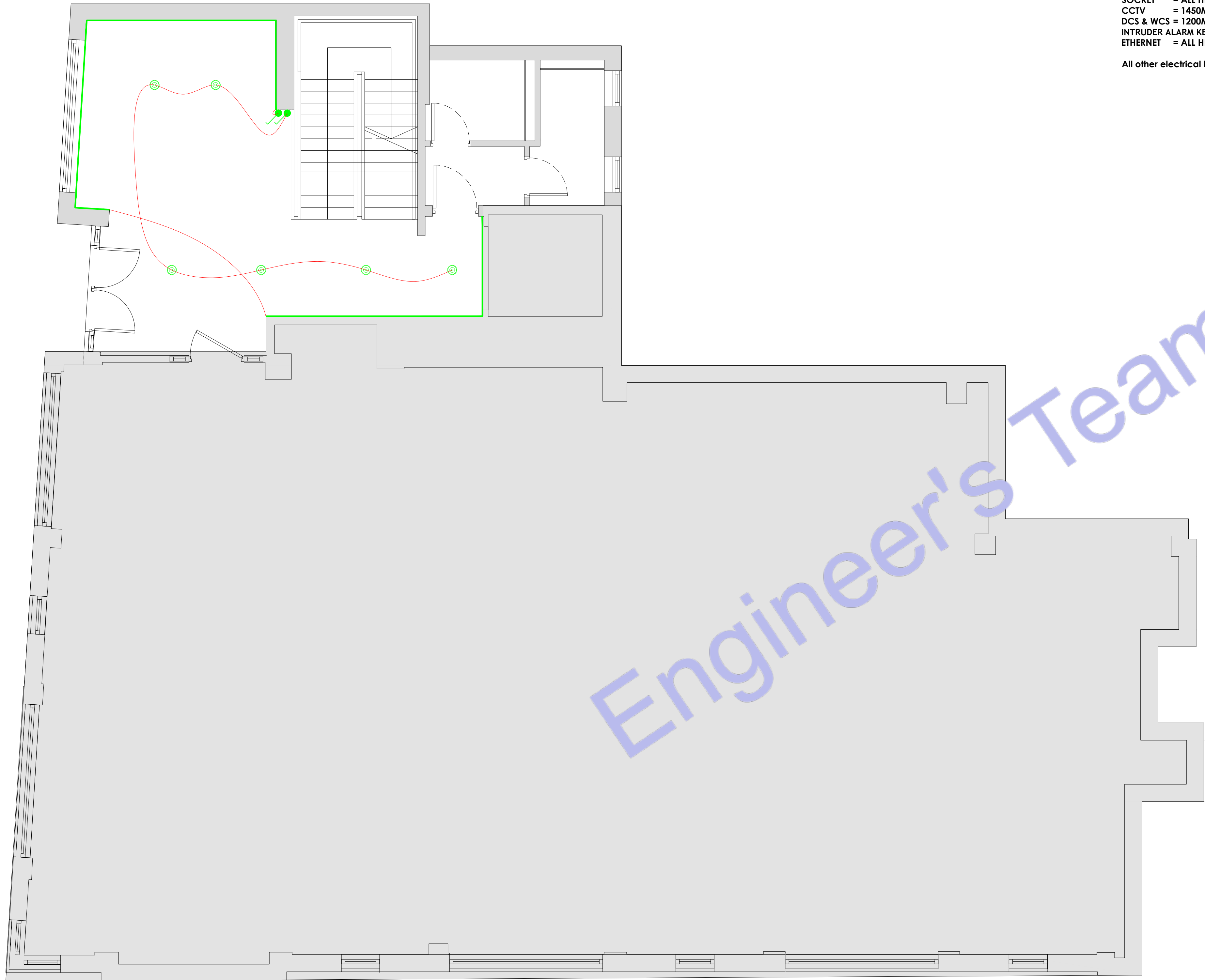
PROJECT: OFFICE ELECTRICAL DESIGN

TITLE: ELECTRICAL
LIGHTING PLAN

PROJ. NO.	PROJ. ENGR. AA	SCALE @ 24X36: 1:1200
-----------	-------------------	--------------------------

DATE : May 11, 2026

DRAWING NO. E-02	REV.
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Note:
Interior Lighting Efficiency

Each interior fixed lighting fitting shall provide a lamp with a luminous efficacy of at least 75 lumens per circuit watt with installation.

- Equipments Height:
SWITCH = 1200MM
ISOLATOR = 1450MM
WALL LIGHT = 1450MM
PANEL BOX = 1450MM
CT = 1450MM
FPCP = 1450MM
AV BOX = 1450MM
CCTV CP = 1450MM
EMERGENCY= 1450MM
SOCKET = ALL HEIGHTS ARE GIVEN WITH EACH SOCKET
CCTV = 1450MM
DCS & WCS = 1200MM
INTRUDER ALARM KEYPAD = 1200MM
ETHERNET = ALL HEIGHTS ARE GIVEN WITH EACH ETHERNET PORT

All other electrical lights and equipments will be on the ceiling

Legend:

- WALL LIGHT 10W
- ADJUSTABLE FRAME RECESSED DOWNLIGHT 20W
- SUSPENDED 3600MM LINEAR LIGHT 120W
- SUSPENDED 1500MM LINEAR LIGHT 60W
- 1200MM BATTEN LIGHT 36W
- CEILING MOUNT PENDENT LIGHT 10W
- SUSPENDE CAN LIGHT 20W
- PIR SENSOR
- LIGHTING CONTROL MODULE
- ABSENCE DETECTOR SENSOR / CONTROLLER
- 3-WAY ROCKERY SWITCH
- 2-WAY ROCKERY SWITCH
- SCENE SET SWITCH
- EXTRACT FAN (ICON 15 ECO) 30W
- PER METER LINEAR LED STRIP 10W
- ISOLATOR SWITCH
- S22 ILLUMINATED EXIT SIGN 4W
- AREA CONTROLLER
- MOTION SENSOR LIGHT 20W
- 300mm TRAY WORK



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REV. NO.	DESCRIPTION	DATE	BY

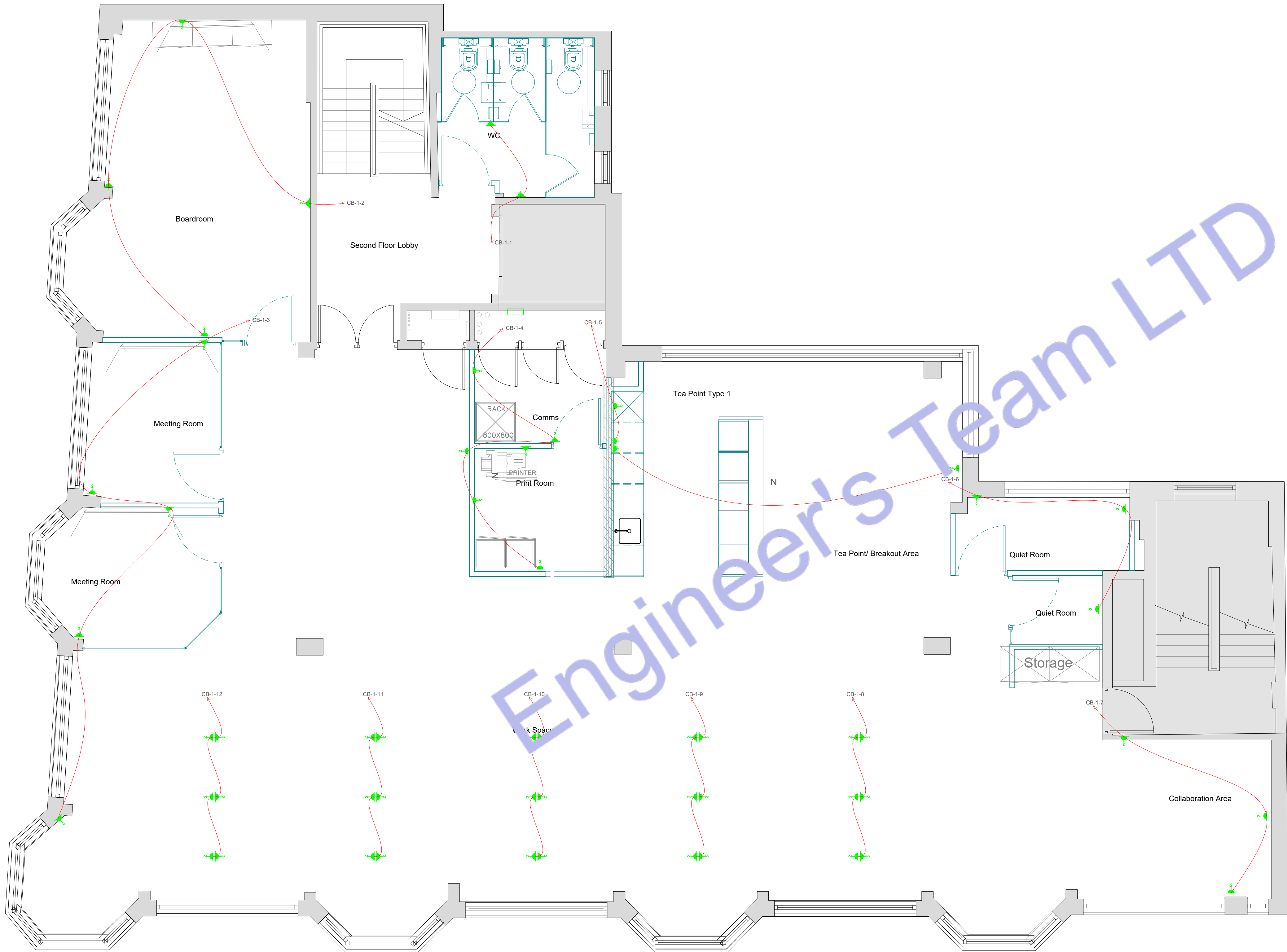
PROJECT: OFFICE ELECTRICAL DESIGN

TITLE: ELECTRICAL LIGHTING PLAN

PROJ. NO.	PROJ. ENGR. AA	SCALE @ 24X36: 1:1200
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DATE : May 11, 2026

DRAWING NO. E-03	REV.
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Legend:

- DOUBLE SOCKET OUTLET 120V
- Single Socket
- PRINTER MATCHER
- HOOD
- FRIDGE/FREEZER
- 5 AMP SOCKET FOR LIGHTING 120V
- Microwave
- WC
- Wine Cooler
- HIGH LEVEL DOUBLE SOCKET OUTLET 120V
- HIGH LEVEL DOUBLE SOCKET OUTLET 120V
- LOW LEVEL DOUBLE SOCKET OUTLET 120V
- HIGH LEVEL SINGLE SOCKET OUTLET 120V
- UNDER FLOOR HEATING
- COMFORT COOLING CONTROL
- VIDEO ENTRY SYSTEM
- INTRUDER ALARM MOTION SENSOR
- CCTV CAMERA
- PIR MOTION SENSOR FOR LIGHTING
- ELECTRICAL WIRE
- CAT6 TO THE COMMUNAL DISTRIBUTION BOX (BT)
- CAT6 INTERNAL ETHERNET
- SMOKE DETECTOR
- SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER
- EXTRACT FAN
- FUSE BOX
- 3-GANG ROCKERY SWITCH
- 2-GANG ROCKERY SWITCH
- SINGLE GANG ROCKERY SWITCH
- FUSED SPUR SWITCH
- FLOOR MOUNT SOCKET 120V
- SCREW LESS DUAL VOLTAGE SHAVES SOCKET
- DOOR CONTACT SENSOR FOR LIGHTING
- INTRUDER ALARM KEYPAD
- USB C SOCKET OUTLET
- INTRUDER ALARM WINDOW CONTACT SWITCH
- INTRUDER ALARM DOOR CONTACT SWITCH
- ELECTRICAL TOWEL RADIATOR
- TELEVISION



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REV. NO.	DESCRIPTION	DATE	BY

PROJECT: OFFICE ELECTRICAL DESIGN

TITLE: ELECTRICAL POWER PLAN

PROJ. NO.	PROJ. ENGR. AA	SCALE @ 24X36: 1:1200
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DATE: May 11, 2026

DRAWING NO. E-04	REV.
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Note:
Provide switched fused spur connection units for all fixed mechanical and electrical equipment unless noted otherwise.

1 LEVEL 02 ELECTRICAL POWER PLAN
SCALE: 1/100" = 1'-0"

Legend:

-  DOUBLE SOCKET OUTLET 120V

 Single Socket

 COOKER/HOB

 HOOD

 FRIDGE/FREEZER

 5 AMP SOCKET FOR LIGHTING 120V

 Microwave

 Wine Cooler

 MID LEVEL DOUBLE SOCKET OUTLET 120V

 HIGH LEVEL DOUBLE SOCKET OUTLET 120V

 LOW LEVEL DOUBLE SOCKET OUTLET 120V

 HIGH LEVEL SINGLE SOCKET OUTLET 120V

 UNDER FLOOR HEATING

 COMFORT COOLING CONTROL

 VIDEO ENTRY SYSTEM

 CCTV CAMERA

 PIR MOTION SENSOR FOR LIGHTING

 ELECTRICAL WIRE
-  CAT6 TO THE COMMUNAL DISTRIBUTION BOX (BT)

 CAT6 INTERNAL ETHERNET

 SMOKE DETECTOR

 SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER

 EXTRACT FAN

 FUSE BOX

 3-GANG ROCKERY SWITCH

 2-GANG ROCKERY SWITCH

 SINGLE GANG ROCKERY SWITCH

 FUSED SPUR SWITCH

 FLOOR MOUNT SOCKET 120V

 SCREW LESS DUAL VOLTAGE SHAVES SOCKET

 DOOR CONTACT SENSOR FOR LIGHTING

 INTRUDER ALARM KEYPAD

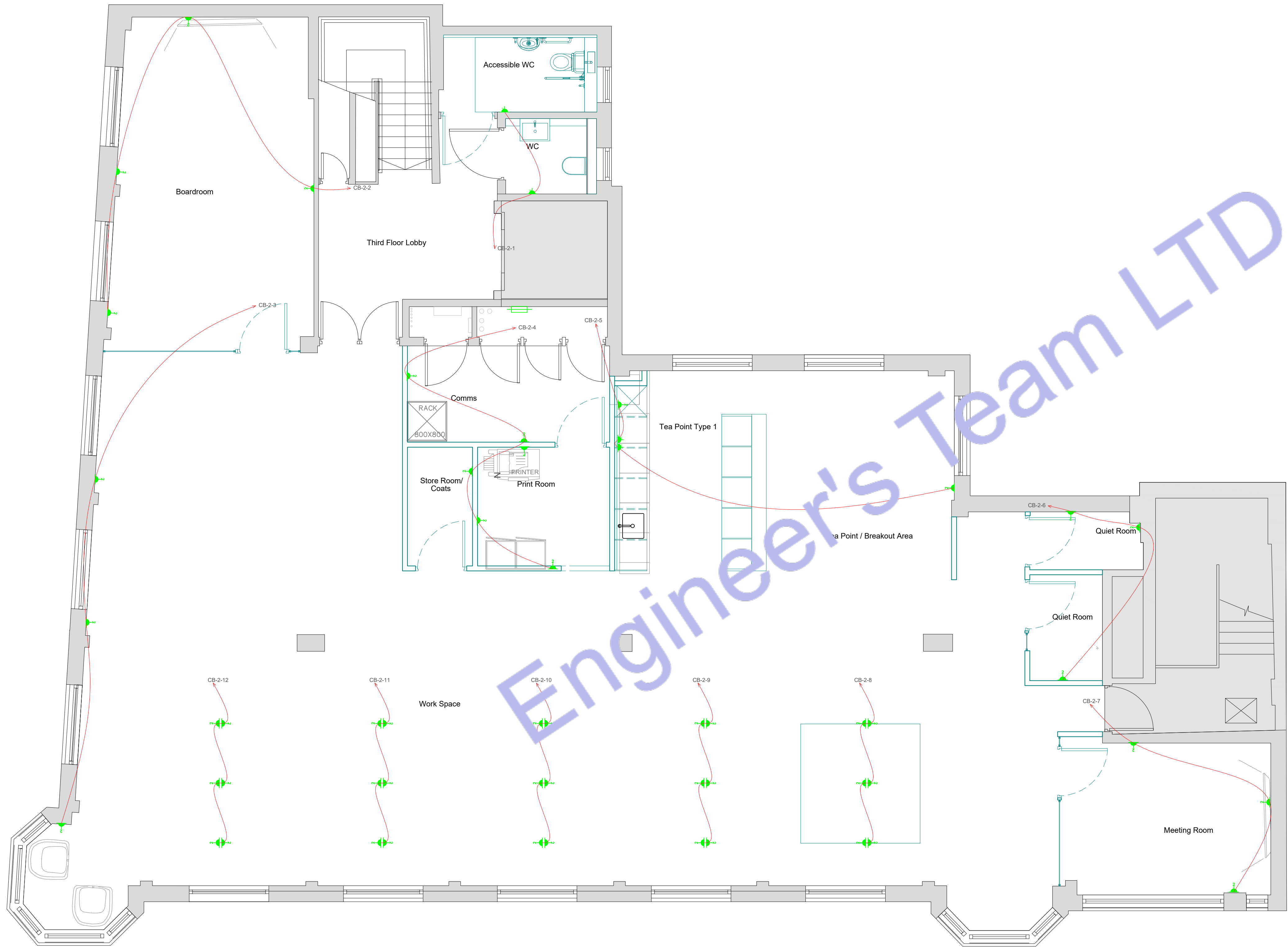
 USB-C SOCKET OUTLET

 INTRUDER ALARM WINDOW CONTACT SWITCH

 INTRUDER ALARM DOOR CONTACT SWITCH

 ELECTRICAL TOWEL RADIATOR

 TELEVISION



Note:
Provide switched fused spur connection units for all fixed mechanical and electrical equipment unless noted otherwise.

2 LEVEL 03 ELECTRICAL POWER PLAN
SCALE: 1/100" = 1'-0"



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REV. NO.	DESCRIPTION	DATE	BY

PROJECT: OFFICE ELECTRICAL DESIGN

TITLE: ELECTRICAL
POWER PLAN

PROJ. NO.	PROJ. ENGR. AA	SCALE @ 24X36: 1:1200
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DATE :
May 11, 2026

DRAWING NO. E-05	REV.
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Legend:

- SMOKE DETECTOR
- SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER
- FUSE BOX
- HEAT DETECTOR WITH SOUNDER
- FIRE PROTECTION CONTROL PANEL
- FIRE ALARM BUTTON
- FIRE ALARM SOUNDER
- ELECTRIC WIRE
- FIRE EXTINGUISHER



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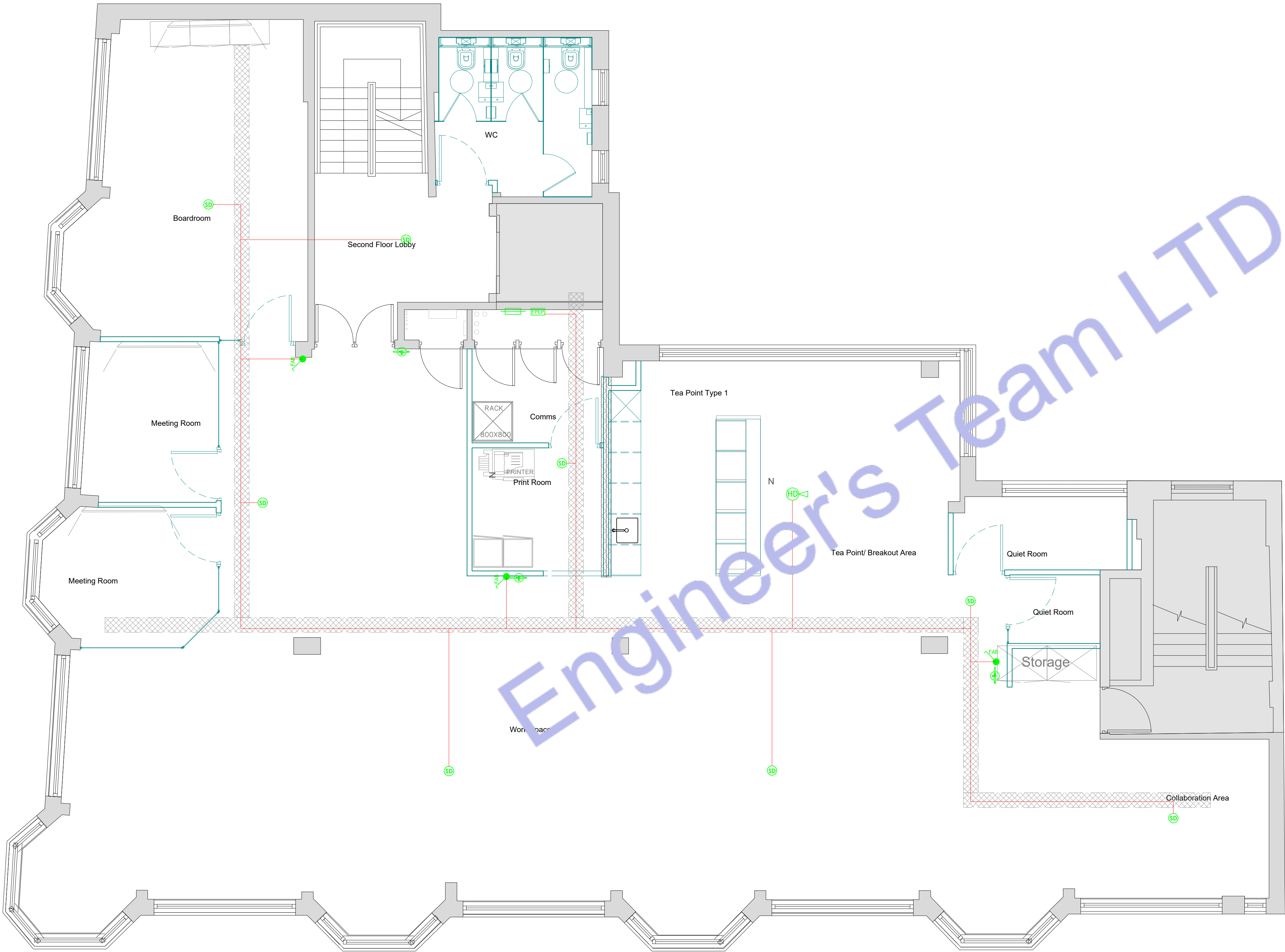
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REV. NO.	DESCRIPTION	DATE	BY

PROJECT: OFFICE ELECTRICAL DESIGN		
TITLE: FIRE ALARM PLAN		
PROJ. NO.	PROJ. ENGR. AA	SCALE @ 24X36: 1:1200
DATE : May 11, 2026		
DRAWING NO. E-06		REV.



1 LEVEL 02 FIRE ALARM PLAN
SCALE: 1/100" = 1'-0"

Legend:

- SMOKE DETECTOR
- SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER
- FUSE BOX
- HEAT DETECTOR WITH SOUNDER
- CEILING RECESSED SPEAKER
- FIRE PROTECTION CONTROL PANEL
- FIRE ALARM BUTTON
- FIRE ALARM SOUNDER
- ELECTRIC WIRE



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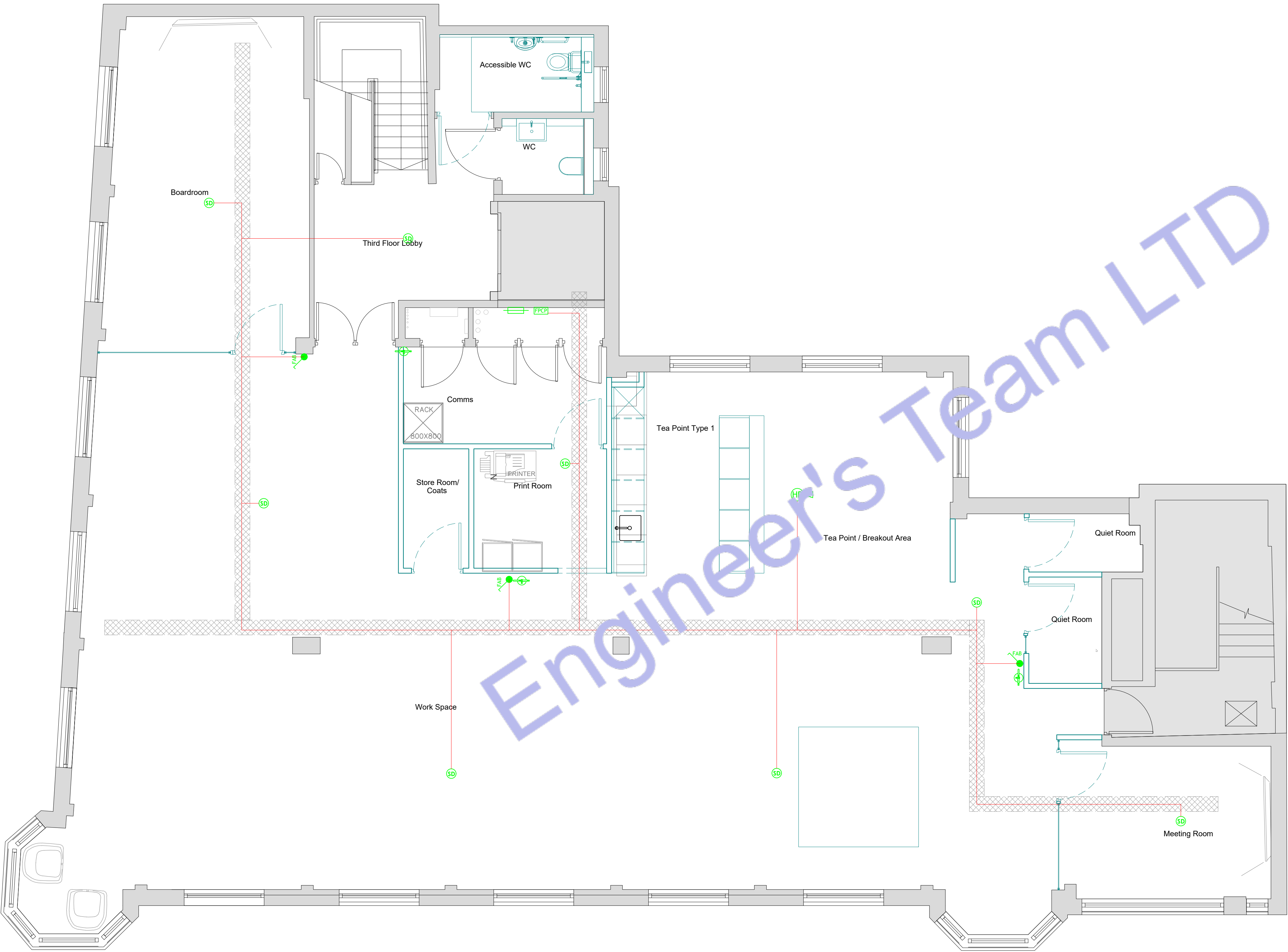
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2 LEVEL 03 FIRE ALARM PLAN
SCALE: 1/100" = 1'-0"

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: OFFICE ELECTRICAL DESIGN

TITLE: FIRE ALARM PLAN

PROJ. NO.

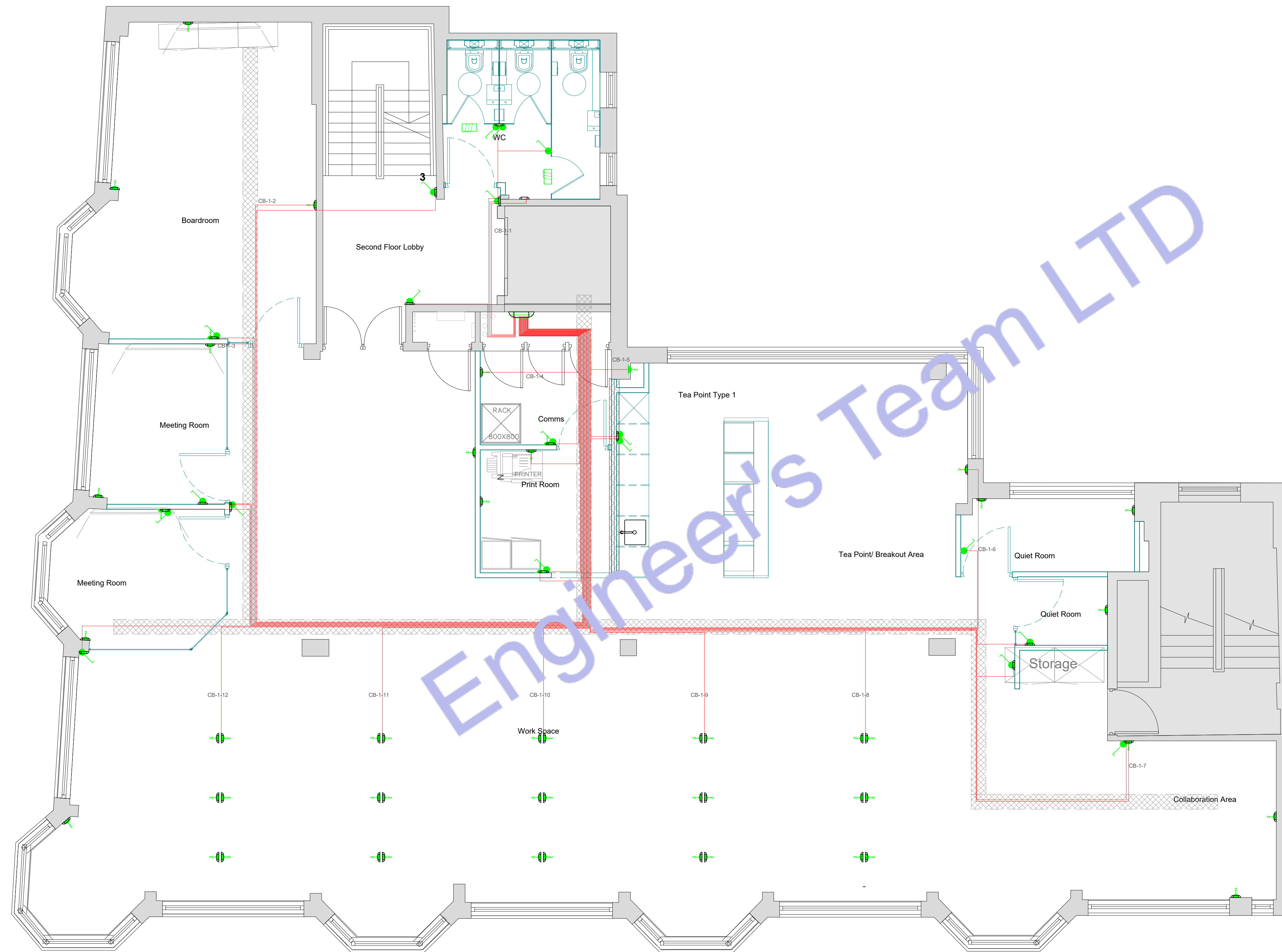
PROJ. ENGR. AA

SCALE @ 24X36: 1:1200

DATE : May 11, 2026

DRAWING NO. E-07

REV.



Legend:

- ELECTRIC WIRE
- 300MM TRAY WORK / CABLE TRAY
- 150X50 TRUNKING
- 20MM CONDUIT



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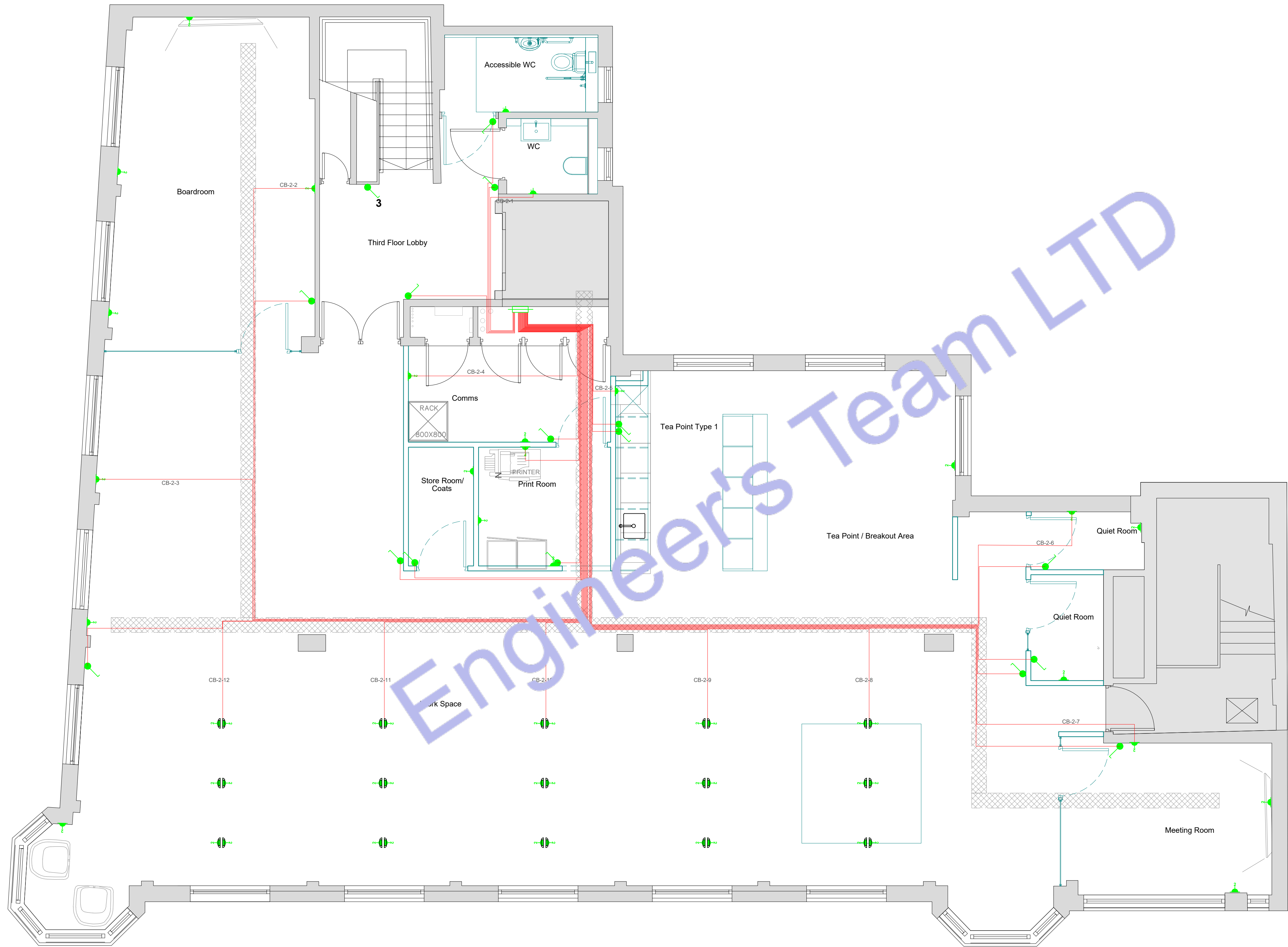
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REV. NO.	DESCRIPTION	DATE	BY

PROJECT: OFFICE ELECTRICAL DESIGN		
TITLE: ELECTRICAL CONDUIT PLAN		
PROJ. NO.	PROJ. ENGR. AA	SCALE @ 24X36: 1:1200
DATE : May 11, 2026		
DRAWING NO. E-08		REV.

Legend:

- ELECTRIC WIRE
- 300MM TRAY WORK / CABLE TRAY



2 LEVEL 03 ELECTRICAL CONDUIT PLAN
SCALE: 1/100" = 1'-0"



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REV. NO.	DESCRIPTION	DATE	BY

PROJECT: OFFICE ELECTRICAL DESIGN		
TITLE: ELECTRICAL CONDUIT PLAN		
PROJ. NO.	PROJ. ENGR. AA	SCALE @ 24X36: 1:1200
DATE : May 11, 2026		
DRAWING NO. E-09		REV.

MAIN PANEL															
Panel Location-															
Voltage (Phase-Ground/Phase-Phase)		230	400	Source of Supply-From Service Disconnect/Meter											
Phase-		1		Wire-		3									
Rated Amps-		150		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	30 Desks Open Office 01	N		15	1	#14	1170	1190	#12	1	20		N	30 Desks Open Office 02	2
3	2nd Floor Lighting Load	N		20	1	#12	1402	1302	#12	1	20		N	3rd Floor Lighting Load	4
5	CB-2nd-01	N		20	1	#12	200	200	#12	1	20		N	CB-3rd-01	6
7	CB-2nd-02	N		20	1	#12	500	500	#12	1	20		N	CB-3rd-02	8
9	CB-2nd-03	N		20	1	#12	400	300	#12	1	20		N	CB-3rd-03	10
11	CB-2nd-04	N		20	1	#12	500	500	#12	1	20		N	CB-3rd-04	12
13	CB-2nd-05	N		20	1	#12	1050	1050	#12	1	20		N	CB-3rd-05	14
15	CB-2nd-06	N		20	1	#12	300	300	#12	1	20		N	CB-3rd-06	16
17	CB-2nd-07	N		20	1	#12	300	300	#12	1	20		N	CB-3rd-07	18
19	CB-2nd-08	N		20	1	#12	600	600	#12	1	20		N	CB-3rd-08	20
21	CB-2nd-09	N		20	1	#12	600	600	#12	1	20		N	CB-3rd-09	22
23	CB-2nd-10	N		20	1	#12	600	600	#12	1	20		N	CB-3rd-10	24
25	CB-2nd-11	N		20	1	#12	600	600	#12	1	20		N	CB-3rd-11	26
27	CB-2nd-12	N		20	1	#12	600	600	#12	1	20		N	CB-3rd-12	28
29	Printer	N		20	1	#12	1500	1500	#12	1	20		N	Printer	30
A															
Connected Load (W)							20464								
Connected Amp							88.97								
Main Type and Amps Rating							150 Amps MCCB								
Demand Load Calculation				230V/400V SINGLE PHASE 3W SERVICE BY UTILITY CO COORDINATE LOCATION WITH UTILITY ELECTRICAL METER SINGLE PHASE SAFETY SWITCH 150 A MCCB SINGLE PHASE M - PANEL 230V/400V SINGLE PHASE 3W											
Load Classification	Connected Load	Demand Factor	Estimated Demand												
Lighting - Dwelling Unit	5064	125%	6330												
Water Heater - Dwelling Unit	0	100%	0												
Receptacle	15400	65%	10010												
Cooling	0	100%	0												
Pump	0	125%	0												
Other	0	100%	0												
Demand Load	20464		16340												
Demand Amps			71.0434783												



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CONJUNCTION WITH ALL RELEVANT DESIGNER,
ENGINEER OR SPECIALIST DRAWINGS AND
SPECIFICATIONS.
3. THE CONTRACTOR MUST CHECK ALL
DIMENSION AT SITE BEFORE COMMENCING
WORK.
4. THE CONTRACTOR IS RESPONSIBLE FOR
PROVIDING ALL NECESSARY TEMPORARY
SUPPORT TO THE BUILDING AND ANY ADJACENT
STRUCTURES.

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: OFFICE ELECTRICAL DESIGN		
TITLE: ELECTRICAL LOAD SCHEDULE & SLD PLAN		
PROJ. NO.	PROJ. ENGR. AA	SCALE @ 24X36: N/A
DATE : May 11, 2026		
DRAWING NO. E-10		REV.

GENERAL NOTES:

- I. 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 (NEC250.94).

KEY NOTES: 7

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 GLAD 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
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.

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.

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

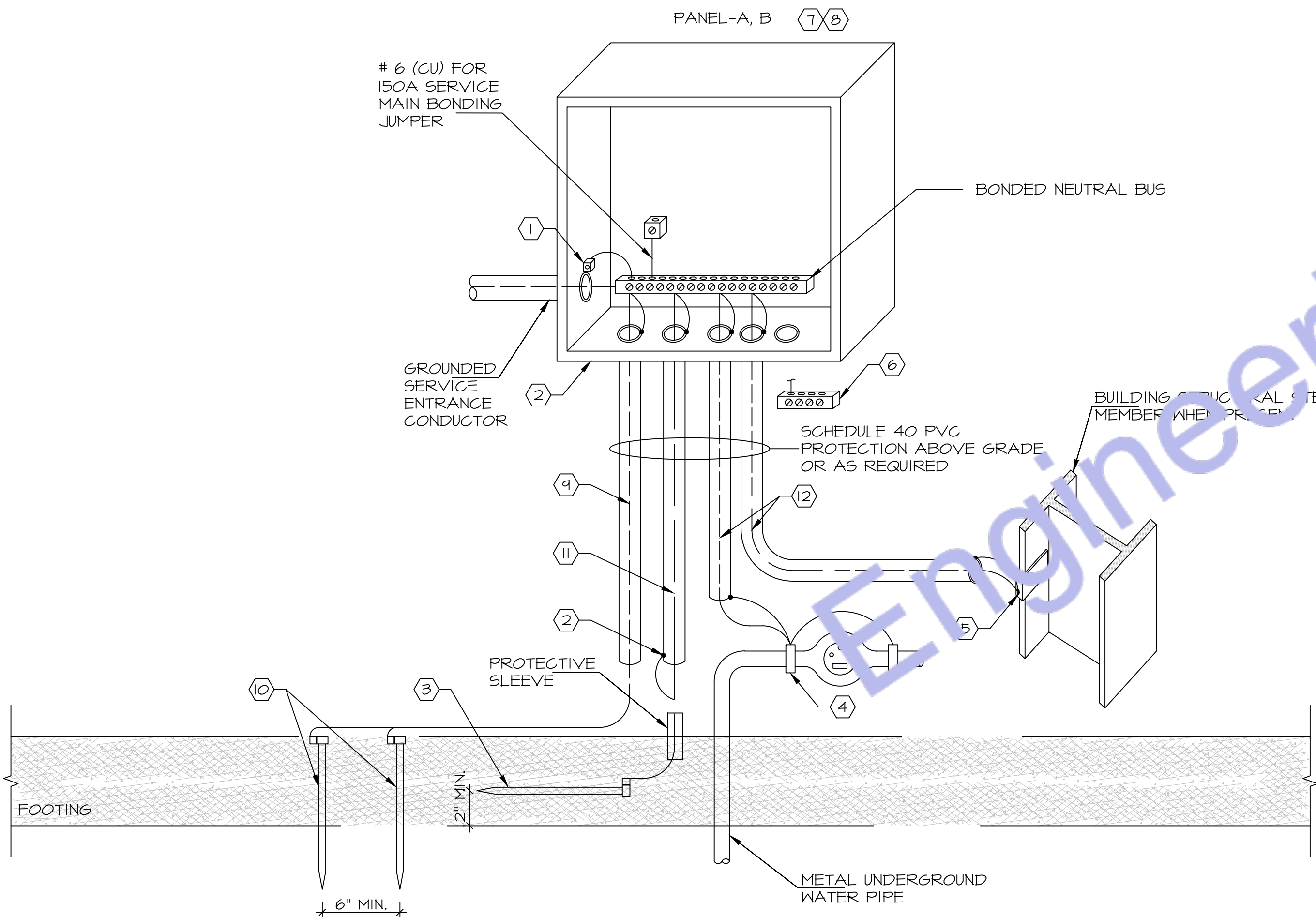
CONDUCTOR FROM THE MAIN GROUNDING ELECTRODE CONDUCTOR TO EACH DISCONNECTING MEANS. SIZE THIS TAP BASED ON THE LARGEST SERVICE CONDUCTOR IN THAT SERVICE DISCONNECT ENCLOSURE.

9. #6 COPPER GROUNDING ELECTRODE CONDUCTOR.

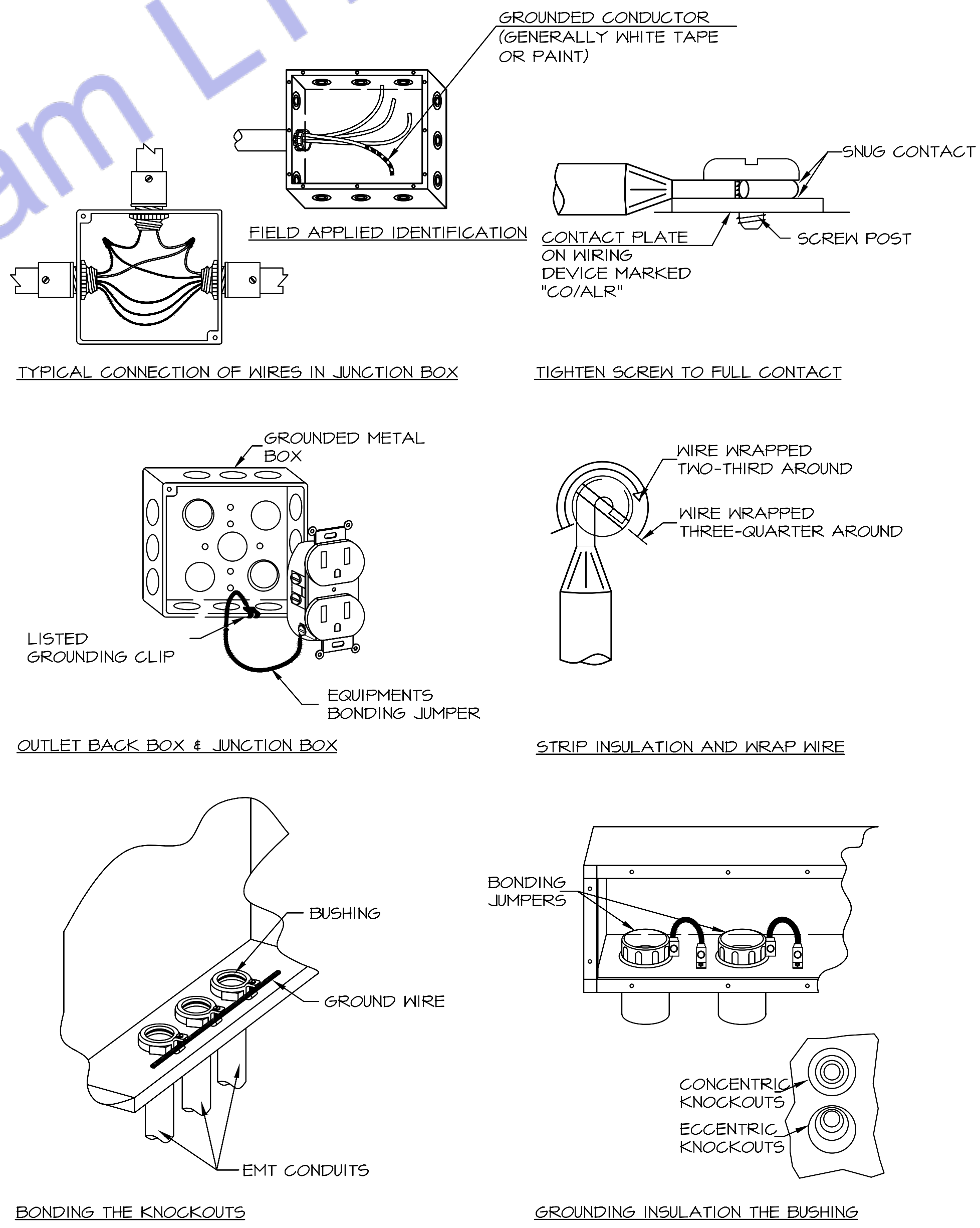
10. INSTALL #6 CU TO TWO 5/8"x 8' MIN. GROUND RODS AS SHOWN.

11. #4 COPPER GROUNDING ELECTRODE CONDUCTOR.

12. COPPER GROUNDING ELECTRODE CONDUCTOR. PROVIDE #6 COPPER.



1 GROUNDING ELECTRODE SYSTEM DIAGRAM
E500 SCALE: NOT TO SCALE



2 BOUNDING DETAILS
E500 SCALE: NOT TO SCALE



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REV. NO.	DESCRIPTION	DATE	BY

PROJECT: OFFICE ELECTRICAL DESIGN		
TITLE: ELECTRICAL INSTALLATION		
PROJ. NO.	PROJ. ENGR. AA	SCALE @ 24X36 N/A
DATE : May 11, 2026		
DRAWING NO. E-11		REV.



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

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