



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:
ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:
1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: HEALTH CARE		
TITLE: GROUND FLOOR REFLECTED CEILING PLAN		
PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: 1/128" = 1' 0"
DATE : August 28, 2026		
DRAWING NO. R - 1		REV.

Legend:

- F1 - IRIS LUMINE MIAMI 3660MM SUSPENDED LINEAR
- F2 - ARKOS ART 4 MODULAR SUSPENDED LINEAR
- F3 - ARKOS ART 5 MODULAR SUSPENDED LINEAR
- P1/P2 - ARCHITECTURAL DOWNRIGHT
- P3 - DECORATIVE PENDANT
- P4 - SURFACE SPOTLIGHT
- WL1 - WALL LIGHT
- WC1 / SV1 - SERVICE AND WC LIGHTS
- SUSPENDED CAN LIGHT 20W
- PIR SENSOR
- LCM LIGHTING CONTROL MODULE
- AD ABSENCE DETECTOR SENSOR / CONTROLLER
- THOR LUX CLEAN LINE RECESSED CLEAN ROOM LUMINARIES, LOW-GLARE OPTIC, TP (A)
- 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
- DOWNRIGHT SERVICE
- DOWNRIGHT ADJUSTABLE
- 300mm TRAY WORK

Mechanical Legends	
	HEALTH TECHNICAL MEMORANDUM AIR HANDLING UNIT
	CONDENSER
	SUPPLY AIR DIFFUSER
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	FIRE DAMPER
	KITCHEN CHIMNEY
	EXHAUST FAN
(E)	EXISTING EQUIPMENT
(N)	NEW EQUIPMENT
	AIR RETURN DUCT
	AIR SUPPLY DUCT
	FRESH AIR INPUT DUCT
	AIR OUTPUT DUCT
	DUCT TURNING UP / DOWN

Legend:

- SMOKE DETECTOR
- SMOKE & HEAT DETECTOR
- FUSE BOX
- ELECTRICAL WIRE
- FIRE PROTECTION CONTROL PANEL
- FIRE BLANKET
- PULL BUTTON
- FIRE EXTINGUISHER

1 GROUND FLOOR REFLECTED CEILING PLAN
SCALE: 1/128" = 1'-0"



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT

CONSENT OF THE DESIGNER.

NOTES:

1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.

2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: HEALTH CARE		
TITLE: BASEMENT FLOOR REFLECTED CEILING PLAN		
PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: 1/128" = 1' 0"
DATE : August 28, 2026		
DRAWING NO. R - 2		REV.

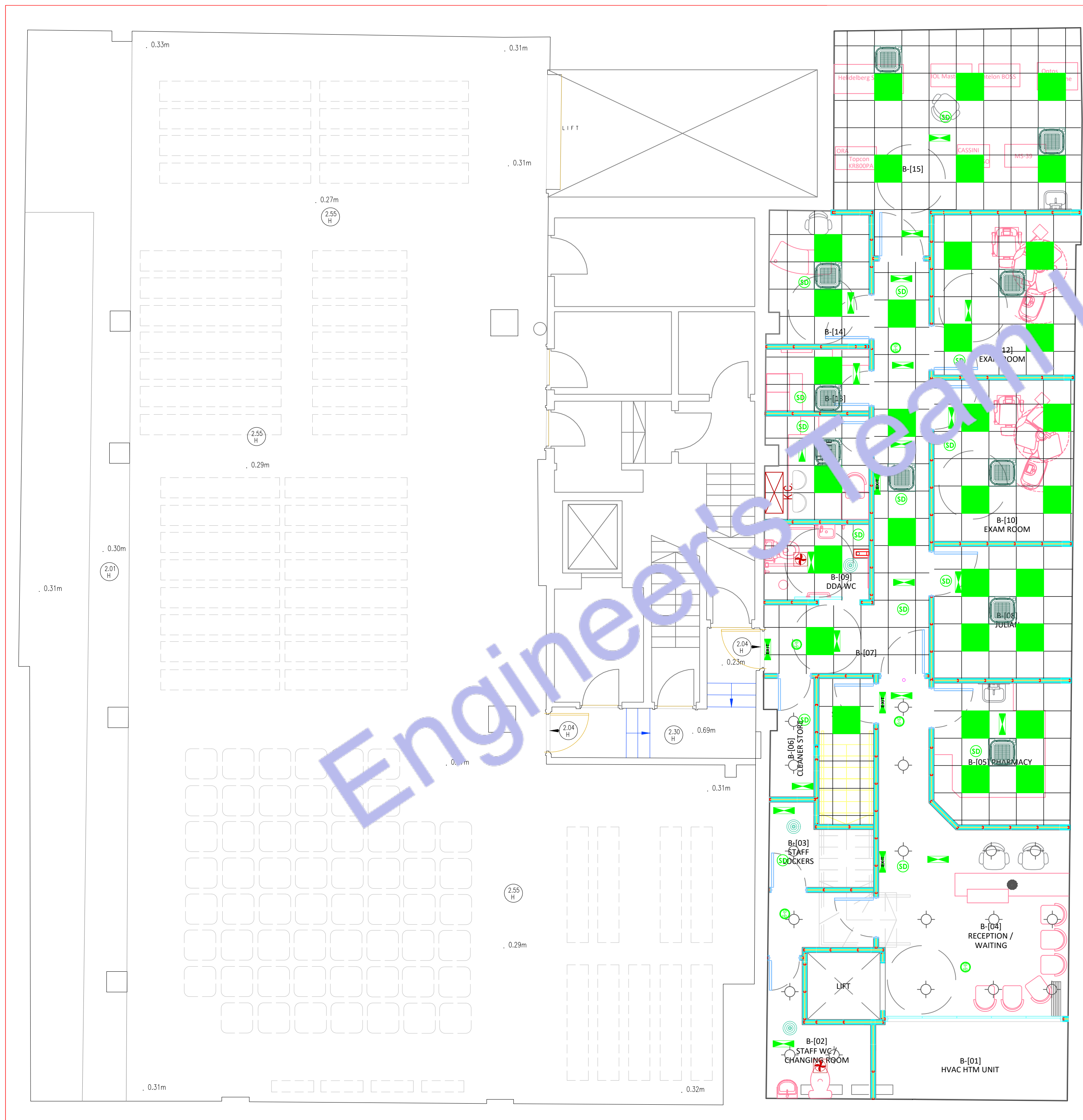
Legend:

- F1 - IRIS LUMINE MIAMI 3660MM SUSPENDED LINEAR
- F2 - ARKOS ART 4 MODULAR SUSPENDED LINEAR
- F3 - ARKOS ART 5 MODULAR SUSPENDED LINEAR
- P1/P2 - ARCHITECTURAL DOWNRIGHT
- P3 - DECORATIVE PENDANT
- P4 - SURFACE SPOTLIGHT
- WL1 - WALL LIGHT
- WC1 / SV1 - SERVICE AND WC LIGHTS
- SUSPENDED CAN LIGHT 20W
- PIR PIR SENSOR
- LCM LIGHTING CONTROL MODULE
- AD ABSENCE DETECTOR SENSOR / CONTROLLER
- THOR LUX CLEAN LINE RECESSED CLEAN ROOM LUMINARIES, LOW-GLARE OPTIC, TP (A) DIFFUSOR
- 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
- DOWNRIGHT SERVICE
- DOWNRIGHT ADJUSTABLE
- 300mm TRAY WORK

Mechanical Legends	
	HEALTH TECHNICAL MEMORANDUM AIR HANDLING UNIT
	CONDENSER
	SUPPLY AIR DIFFUSER
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	FIRE DAMPER
	KITCHEN CHIMNEY
	EXHAUST FAN
(E)	EXISTING EQUIPMENT
(N)	NEW EQUIPMENT
	AIR RETURN DUCT
	AIR SUPPLY DUCT
	FRESH AIR INPUT DUCT
	AIR OUTPUT DUCT
	DUCT TURNING UP / DOWN

Legend:

- SMOKE DETECTOR
- SMOKE & HEAT DETECTOR
- PURGE BOX
- ELECTRICAL WIRE
- FIRE PROTECTION CONTROL PANEL
- FIRE BLANKET
- FIRE BUTTON
- FIRE EXTINGUISHER



2 BASEMENT FLOOR REFLECTED CEILING PLAN
SCALE: 1/128" = 1'-0"

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 complete, 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/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 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 Obtain/pay 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-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 Dcs-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 (¾")
Kitchens/bath	Galvanised steel (BS 4568:2024)	25mm (1")
External	Heavy-wall galvanised steel	25mm (1")
Underground	PVC-U (BS EN 61386-24)	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 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 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 (IPX4 minimum) Installed with ≥ 600mm 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 ≤32A 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 150mm letter height (was 3/4") 4.2 Junction Box Marking: Machine-readable QR codes containing: Circuit origin (e.g., "DB3/CS") 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 I. LIGHTING *(BS 7671:2022 Amd 2 §59 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) - Smart-ready 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 (EA Waste Directive) - Asbestos screening: Mandatory before removing old conduits Temporary supplies - Approved Voltage: Portable (HVO) generators only (Net Zero compliant) - Real-time 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 (L1), 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/higher loads.

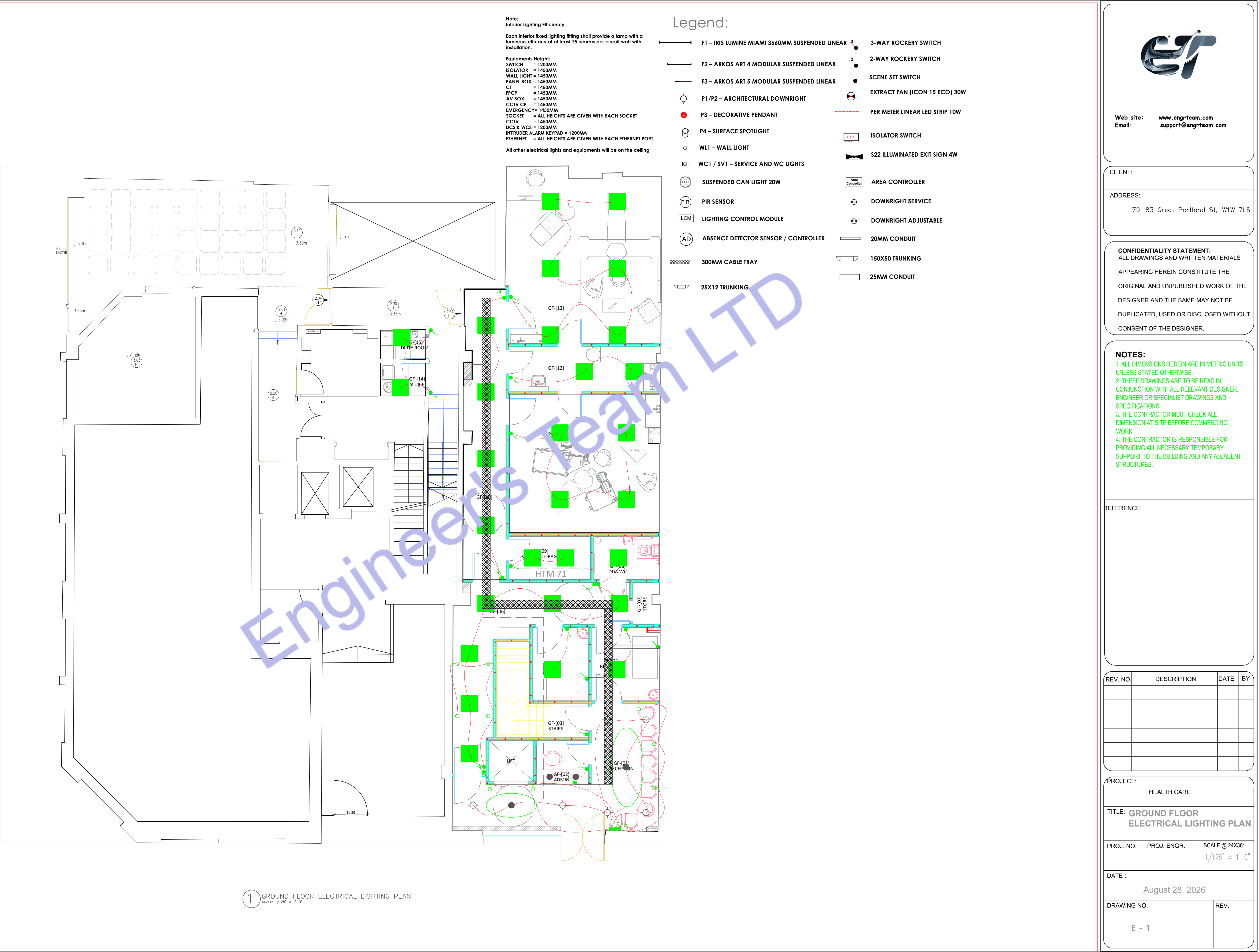
SPECIFICATIONS
A. TRUNKING, BOXES AND CONDUITS: 1. OUTDOOR WIRING METHODS – INSTALLATION TO BE IN ACCORDANCE WITH BS 7671 AND BS EN STANDARDS: a. Exposed installations: Use galvanised steel conduit to BS EN 61386. b. Concealed installations: Use heavy-gauge steel conduit in compliance with BS EN 61386. 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 moulded, etc.). 3. Data and communications outlet locations to be confirmed with Architect. Structured cabling and telephony wiring by specialist installer (others). 4. All fixings and supports shall meet BS 7671 regulations and relevant building standards. Provide robust, non-corrosive support systems. D. ELECTRICAL IDENTIFICATION 1. All distribution boards, isolators, and major electrical equipment shall be fitted with engraved traffic signs or equivalent labels, with minimum 25 mm high characters where visible to the public, 10 mm for plant room use. 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-outlets 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., 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. 'Spade' in a distribution board shall indicate protection for future circuit protection devices, neutral and earth bars, and proper labelling. 2. Final circuit layouts shall match the design drawings. Any changes must be authorised by the project engineer. 3. Distribution board busbars shall support all final circuit breakers shall be Type B or C MCBs or RCBs as appropriate. 4. Confirm characteristics of motor 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. Distribution 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	N	Neutral
AF	Above Finished Floor	(N) New item	
AIC	Amps Interrupting Capacity (Minimum)	NIC	Not in Contract
BCP	Bonding Conductor Protective	OEM	Original Equipment Manufacturer
CB	Circuit Breaker	OFO	Owner Furnished Contractor Installed
C	Conduit	p	Pole (e.g., 1P, 3P)
CCT	Circuit	PNL	Panel (Distribution Board / Consumer Unit)
CPC	Circuit Protective Conductor	PH / Ø	Phase
EC	Empty Conduit	(R)	Remove existing and relocate
(E)	Existing to remain, continue in service	(RE)	Relocated 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
Ics/Icu	Short-Circuit Breaking Capacity (BS EN 60947-2)	TBD	To Be Determined
IP	Ingress Protection Rating	UON	Unless Otherwise Noted
kVA	Kilovolt-Amps	V	Volt
kW	Kilowatt	W	With
L	Live	WP	Weatherproof (IP rated)
LSZH	Low Smoke Zero Halogen	XFMTR	Transformer
LTG	Lighting	(X)	Remove with all associated wiring
MCB	Miniature Circuit Breaker		
MH	Mounting Height		
MLO	Main Lug Only (not common in UK – state 'main terminals only')		

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 230V		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 230V		FUSE BOX
	Microwave		3-GANG ROCKERY SWITCH
	Wine Cooler		2-GANG ROCKERY SWITCH
	MID LEVEL DOUBLE SOCKET OUTLET 230V		SINGLE GANG ROCKERY SWITCH
	HIGH LEVEL DOUBLE SOCKET OUTLET 230V		FUSED SPUR SWITCH
	LOW LEVEL DOUBLE SOCKET OUTLET 230V		SHAVER SOCKET
	HIGH LEVEL SINGLE SOCKET OUTLET 230V		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

			
Web site: www.engrteam.com Email: support@engrteam.com			
CLIENT:			
ADDRESS: 79–83 Great Portland St, W1W 7LS			
CONFIDENTIALITY STATEMENT: ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE DESIGNER AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT CONSENT OF THE DESIGNER.			
NOTES: 1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS UNLESS STATED OTHERWISE. 2. THESE DRAWINGS ARE TO BE READ IN 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.			
REFERENCE:			
REV. NO.	DESCRIPTION	DATE	BY
PROJECT: HEALTH CARE			
TITLE: GENERAL NOTE FOR ELECTRICAL PLAN			
PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: N/A	
DATE : August 28, 2026			
DRAWING NO. E - 0		REV.	



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:
79–83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:
ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:
1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT:

HEALTH CARE

TITLE:

GROUND FLOOR
ELECTRICAL LIGHTING PLAN

PROJ. NO.

PROJ. ENGR.

SCALE @ 24X36:
1/128" = 1' 0"

DATE:

August 28, 2026

DRAWING NO.

REV.

E - 1



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:

1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN 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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: HEALTH CARE

TITLE: BASEMENT FLOOR
ELECTRICAL LIGHTING PLAN

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:
1/128" = 1' 0"

DATE :
August 28, 2026

DRAWING NO. REV.
E - 2

Note:
Interior Lighting Efficiency

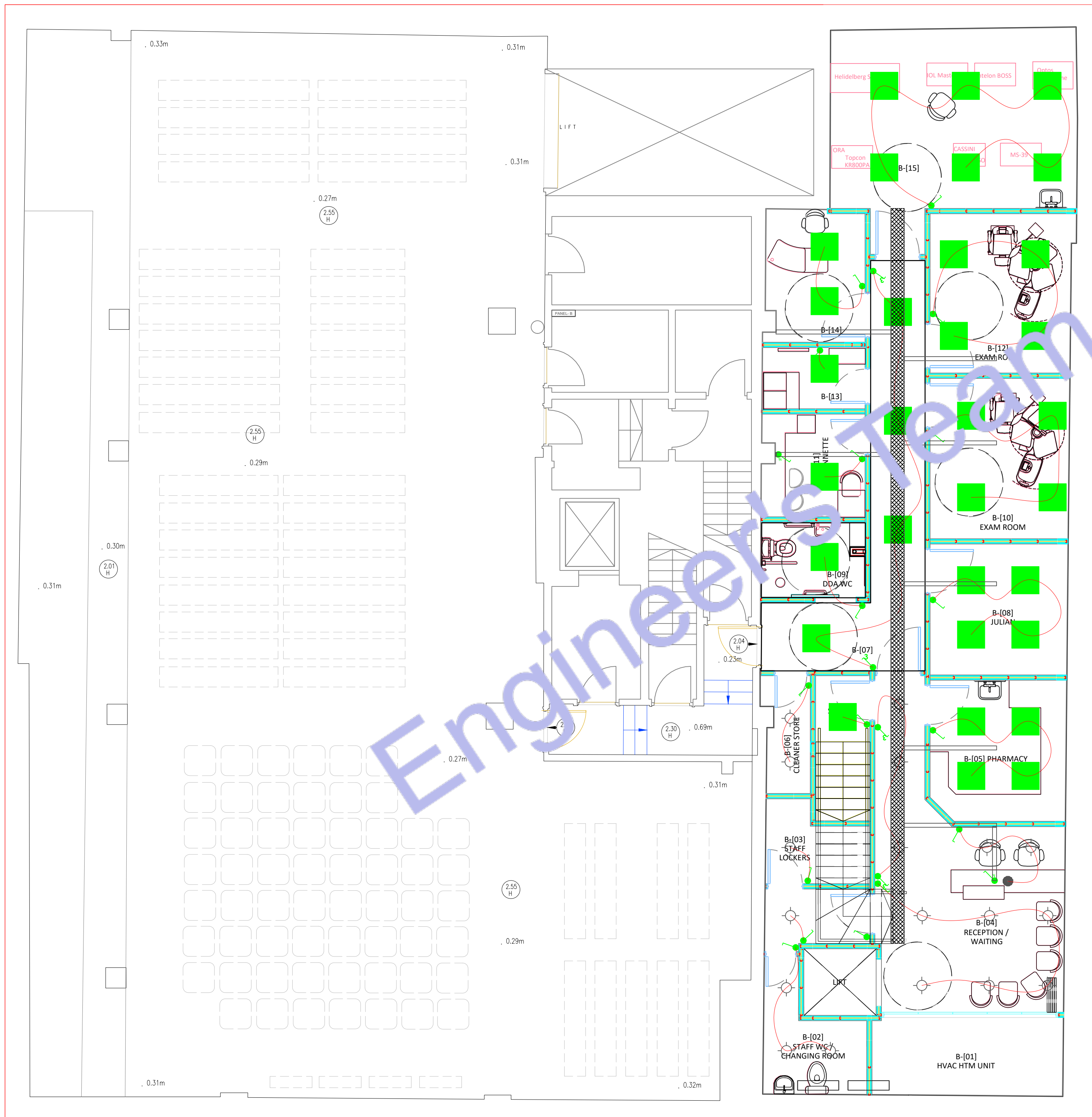
Each interior fixed lighting fitting shall provide a lamp with a luminous efficacy of at least 75 lumens per circuit watt with installation.

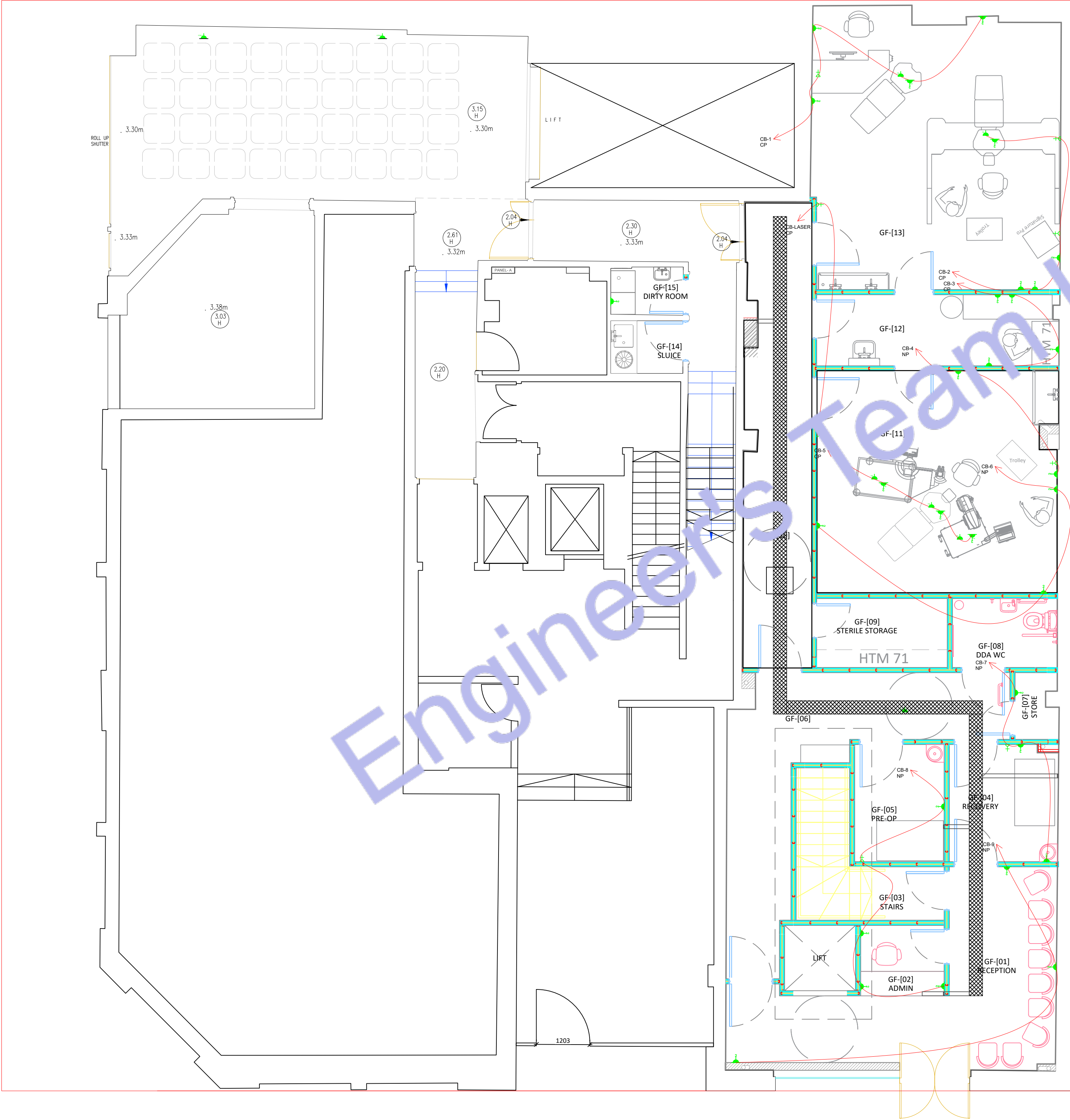
Equipments Height:
SWITCH = 1200MM
ISOLATOR = 1450MM
WALL LIGHT = 1450MM
PANEL BOX = 1450MM
CT = 1450MM
FPCP = 1450MM
AV BOX = 1450MM
CCTV CP = 1450MM
EMERGENCY = 1450MM
SOCKET = ALL HEIGHTS ARE GIVEN WITH EACH SOCKET
CCTV = 1450MM
DCS & WCS = 1200MM
INTRUDER ALARM KEYPAD = 1200MM
ETHERNET = ALL HEIGHTS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

All other electrical lights and equipments will be on the ceiling

Legend:

- F1 - IRIS LUMINE MIAMI 3660MM SUSPENDED LINEAR
- F2 - ARKOS ART 4 MODULAR SUSPENDED LINEAR
- F3 - ARKOS ART 5 MODULAR SUSPENDED LINEAR
- P1/P2 - ARCHITECTURAL DOWNRIGHT
- P3 - DECORATIVE PENDANT
- P4 - SURFACE SPOTLIGHT
- WL1 - WALL LIGHT
- WC1 / SV1 - SERVICE AND WC LIGHTS
- SUSPENDED CAN LIGHT 20W
- PIR SENSOR
- LCM LIGHTING CONTROL MODULE
- AD ABSENCE DETECTOR SENSOR / CONTROLLER
- THOR LUX CLEAN LINE RECESSED CLEAN ROOM LUMINARIES, LOW GLARE OPTIC, TP (A) DIFFUSER
- 30MM CABLE TRAY
- 25X12 TRUNKING
- 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
- DOWNRIGHT SERVICE
- DOWNRIGHT ADJUSTABLE
- 300mm TRAY WORK
- NURSE CALL
- 20MM CONDUIT
- 150X50 TRUNKING
- 25MM CONDUIT





Legend:

- DOUBLE SOCKET OUTLET
- Single Socket
- AIR HANDLING UNIT
- CONDENSER UNIT
- REFRIGERATOR
- 1 AMP SOCKET FOR LIGHTING
- Microwave
- Wine Cooler
- HOT LEVEL DOUBLE SOCKET OUTLET
- HIGH LEVEL DOUBLE SOCKET OUTLET
- LOW LEVEL DOUBLE SOCKET OUTLET
- HIGH LEVEL SINGLE SOCKET OUTLET
- UNDER FLOOR HEATING
- ACCESS CONTROL
- VIDEO ENTRY SYSTEM
- CCTV MONITOR SYSTEM
- CCTV CAMERA
- PIR MOTION SENSOR FOR LIGHTING
- ELECTRICAL WIRE
- CF CLEAN POWER SOCKET
- NP NORMAL POWER SOCKET
- CABLE TO THE COMMUNAL DISTRIBUTION BOX (BT)
- CABLE 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 SOCKET
- FLOOR MOUNT SOCKET
- SCREW LESS DUAL VOLTAGE SHOWER SOCKET
- DOOR CONTACT SENSOR FOR LIGHTING
- INTRUDER ALARM KEYPAD
- LOCK SOCKET OUTLET
- INTRUDER ALARM WINDOW CONTACT SWITCH
- INTRUDER ALARM DOOR CONTACT SWITCH
- ELECTRICAL TOWEL RADIATOR
- TELEVISION
- INTERCOM PORT

1 GROUND FLOOR ELECTRICAL POWER PLAN
SCALE: 1/128" = 1'-0"



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:
79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:
ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:
1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: HEALTH CARE		
TITLE: GROUND FLOOR ELECTRICAL POWER PLAN		
PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: 1/128" = 1' 0"
DATE : August 28, 2026		
DRAWING NO. E - 3		REV.



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:
ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:
1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: HEALTH CARE

TITLE: BASEMENT FLOOR
ELECTRICAL POWER PLAN

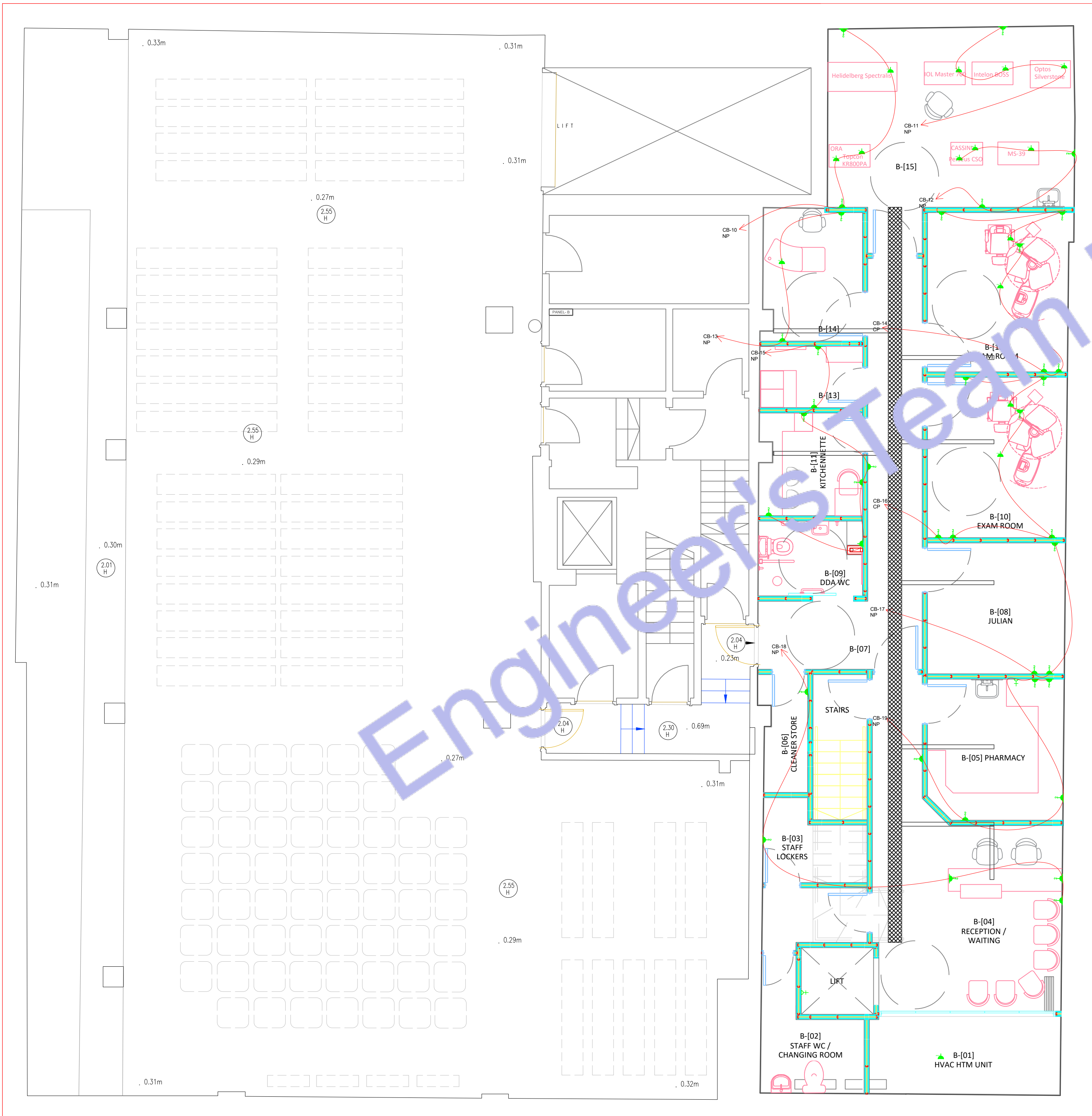
PROJ. NO. PROJ. ENGR. SCALE @ 24X36:
1/128" = 1' 0"

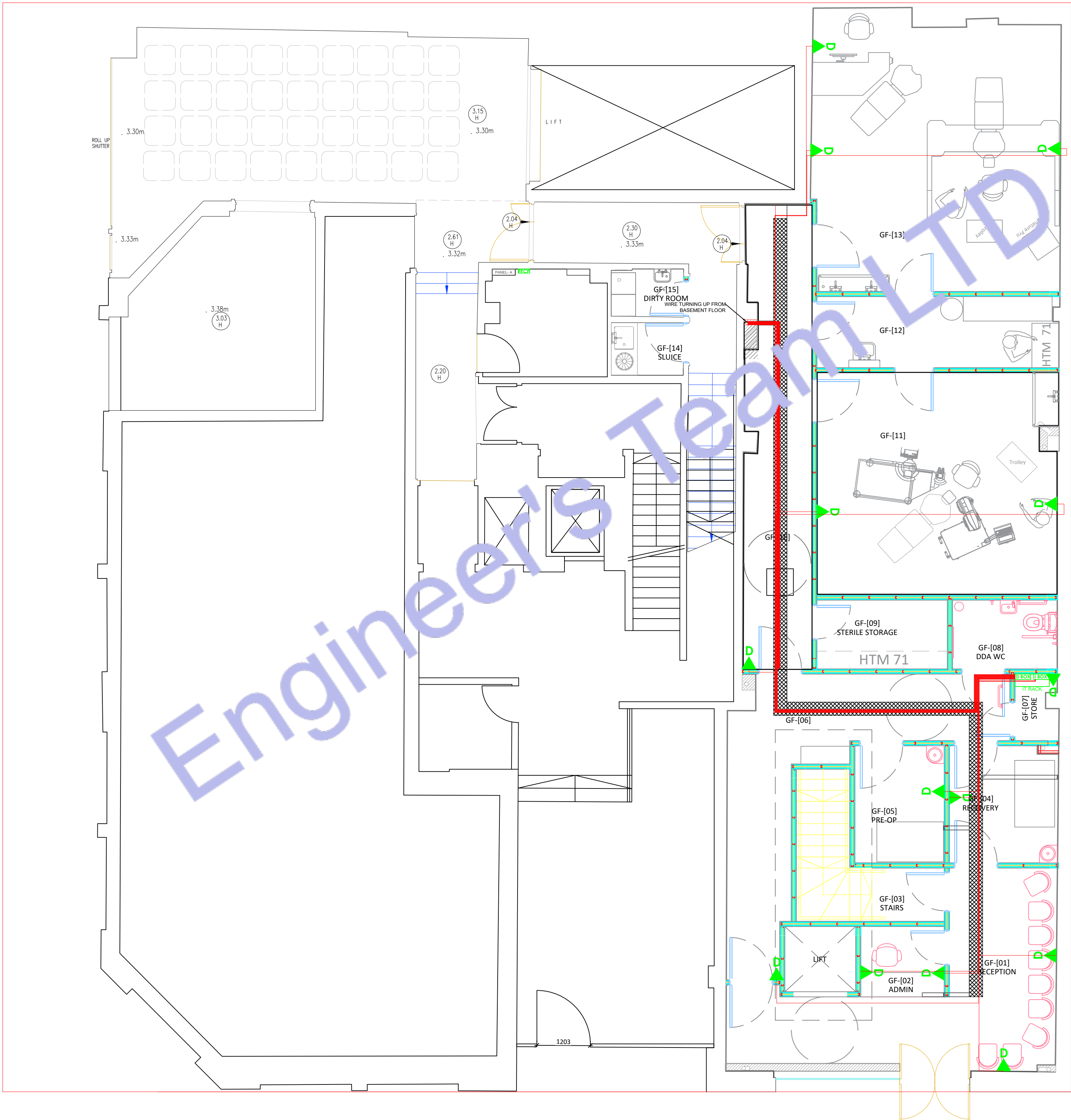
DATE :
August 28, 2026

DRAWING NO. REV.
E - 4

Legend:

- DOUBLE SOCKET OUTLET
- Single Socket
- AIR HANDLING UNIT
- CONDENSER UNIT
- Fridge/Freezer
- 5 AMP SOCKET FOR LIGHTING
- Microwave
- Wine Cooler
- WHD LEVEL DOUBLE SOCKET OUTLET
- HIGH LEVEL DOUBLE SOCKET OUTLET
- LOW LEVEL DOUBLE SOCKET OUTLET
- HIGH LEVEL SINGLE SOCKET OUTLET
- UNDER FLOOR HEATING
- ACCESS CONTROL
- VIDEO ENTRY SYSTEM
- CCTV MONITOR SYSTEM
- CCTV CAMERA
- PIR MOTION SENSOR FOR LIGHTING
- ELECTRICAL WIRE
- CLEAN POWER SOCKET
- NORMAL POWER SOCKET
- CATS TO THE COMMUNAL DISTRIBUTION BOX (BT)
- CATS INTERNAL ETHERNET
- SMOKE DETECTOR
- SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER
- EXTRACT FAN
- FUSE BOX
- 3-GANG ROCKETRY SWITCH
- 2-GANG ROCKETRY SWITCH
- SINGLE GANG ROCKETRY SWITCH
- FUSED SPUR SOCKET
- FLOOR MOUNT SOCKET
- SCREEN LEED DUAL VOLTAGE SHOWER 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
- INTERCOM PORT





1 GROUND FLOOR ETHERNET & INTERCOM PLAN
SCALE: 1/128" = 1'-0"

Legend:

- CATA TO THE COMMUNAL DISTRIBUTION BOX (BT)
- CATA INTERNAL ETHERNET
- INTERCOM PORT
- ELECTRICAL WIRE
- ETHERNET/DATA BOX
- INTERCOM BOX



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:

- ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.
- THESE DRAWINGS ARE TO BE READ IN
CONJUNCTION WITH ALL RELEVANT DESIGNER,
ENGINEER OR SPECIALIST DRAWINGS AND
SPECIFICATIONS.
- THE CONTRACTOR MUST CHECK ALL
DIMENSION AT SITE BEFORE COMMENCING
WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR
PROVIDING ALL NECESSARY TEMPORARY
SUPPORT TO THE BUILDING AND ANY ADJACENT
STRUCTURES.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

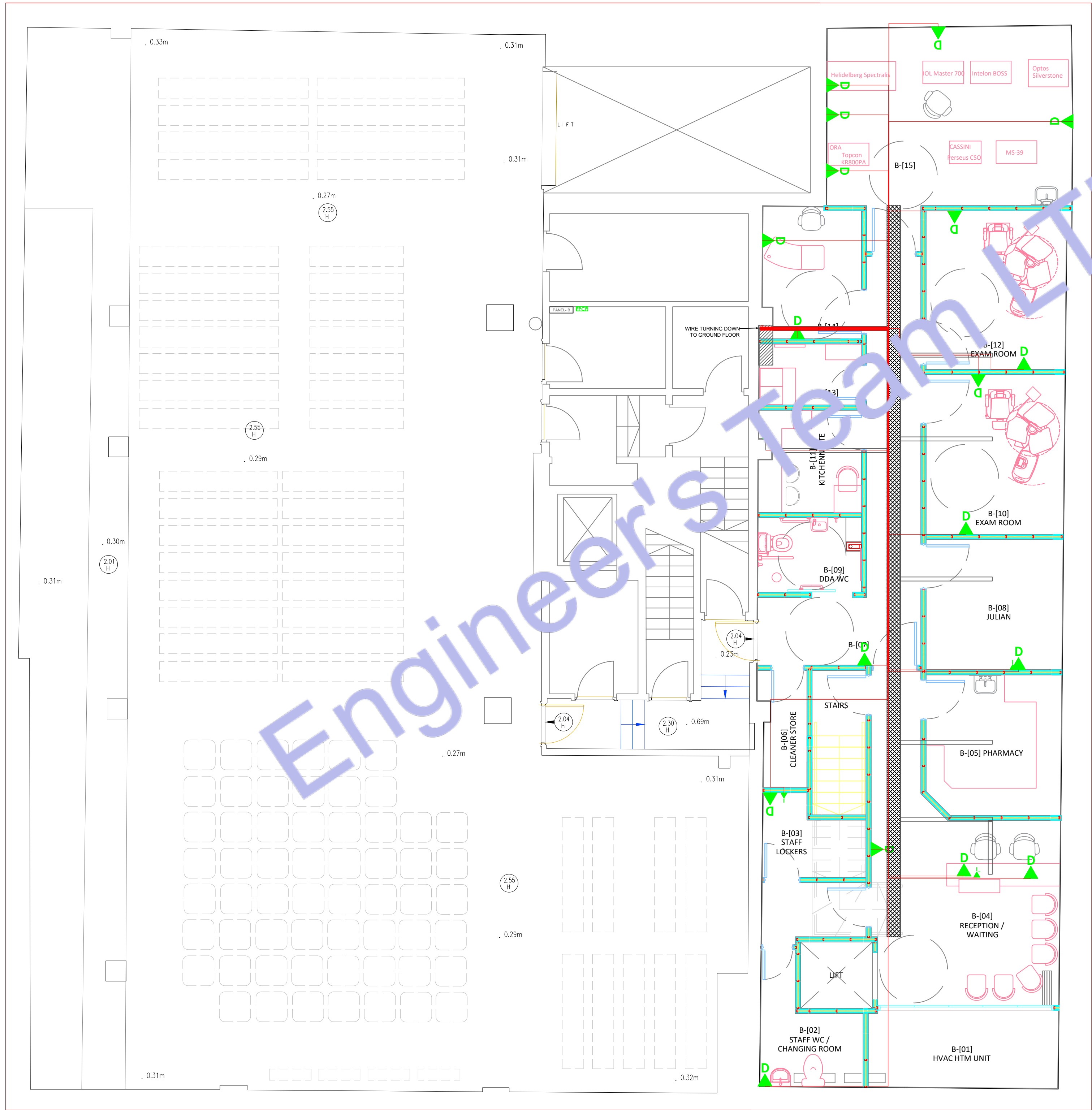
PROJECT: HEALTH CARE

TITLE: GROUND FLOOR ETHERNET
& INTERCOM PLAN

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:
1/128" = 1' 0"

DATE :
August 28, 2026

DRAWING NO. REV.
E - 5



Legend:

- Cable to the COMMUNAL DISTRIBUTION BOX (BT)
- Cable INTERNAL ETHERNET
- INTERCOM POINT
- ELECTRICAL WIRE
- ETHERNET/DATE BOX
- INTERCOM BOX

2 BASEMENT FLOOR ETHERNET & INTERCOM PLAN
SCALE: 1/128" = 1'-0"



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:
79-83 Great Portland St, W1W 7LS

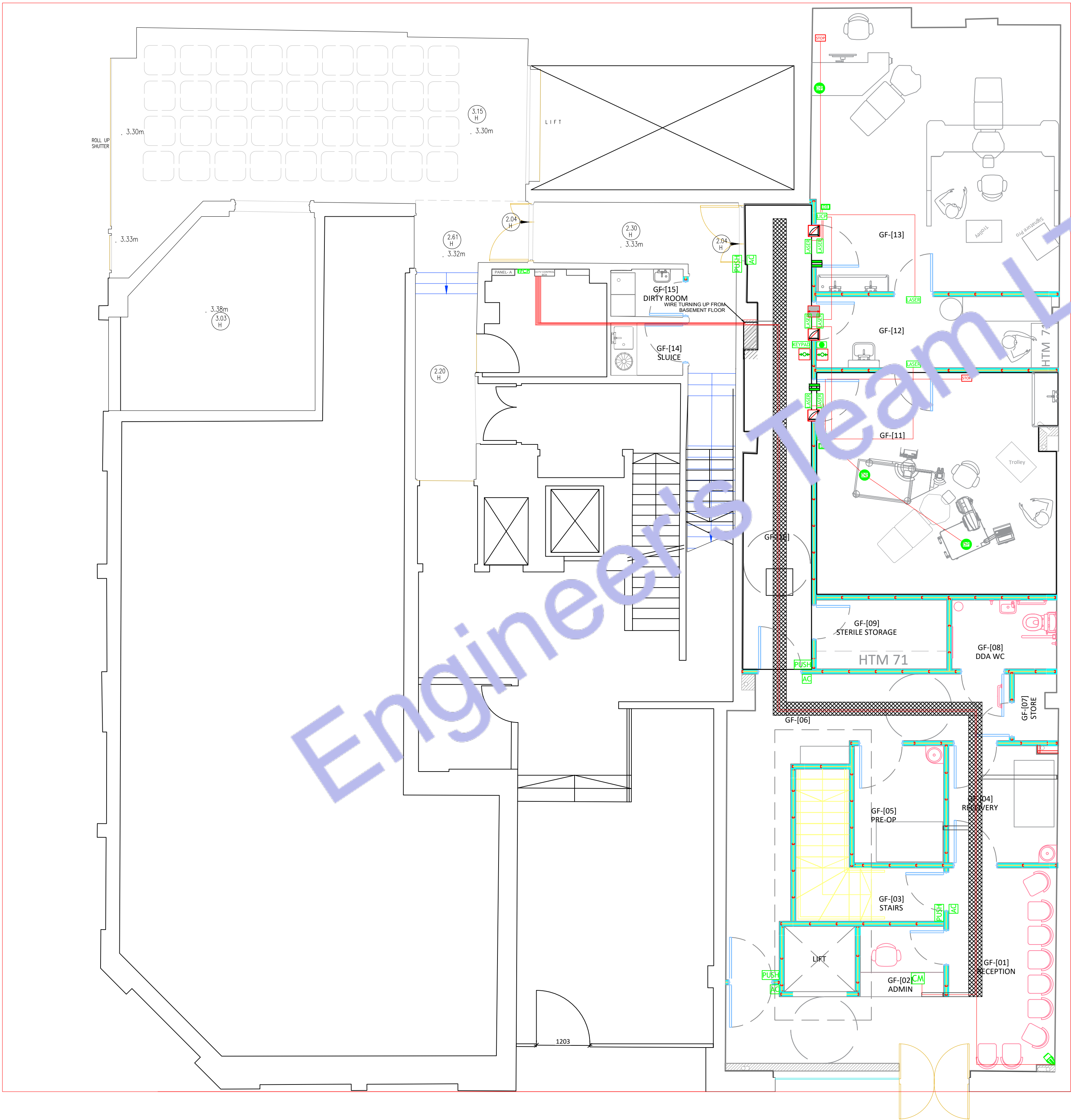
CONFIDENTIALITY STATEMENT:
ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:
1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: HEALTH CARE			
TITLE: BASEMENT FLOOR ETHERNET & INTERCOM PLAN			
PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: 1/128" = 1' 0"	
DATE : August 28, 2026			
DRAWING NO. E - 6		REV.	



Legend:

- ACCESS CONTROL KEYPAD / CARD PUNCH
- ACCESS CONTROL PUSH BUTTON
- LED LASER WARNING
- TOUCHSCREEN LASER INTERLOCK CONTROL PANEL
- EMERGENCY LIGHT WITH EXIT SIGN
- EMERGENCY LIGHT
- CCTV MONITOR SYSTEM
- CCTV CAMERA
- ELECTRICAL WIRE
- IS-MOC-12 INTERLOCK
- MAGLOCK 350 KG
- EMERGENCY STOP BREAK GLASS
- EMERGENCY PUSH BUTTON
- KEYPAD + OVERRIDE
- INTERLOCK DISTRIBUTION BOX / RELAYS
- ILLUMINATED PUSH PUSHBUTTON (EXIT)
- DOOR LOOP
- DEDICATED SAFETY INTERLOCK PORT OF THE LASER (BUILT IN)

LASER SAFETY INTERLOCK SYSTEM:

- DUAL CHANNEL INTERLOCK SWITCHES (P/E) ON ALL THEATRE / PREP ROOM DOORS
 - MAGLOCKS ON CONTROLLED DOORS
 - LED GREEN/RED LASER WARNING SIGNS
 - EMERGENCY STOP BUTTONS (BREAK-GLASS + PUSH BUTTON)
 - TOUCHSCREEN INTERLOCK CONTROLLER IN EACH THEATRE
 - ALL THEATRE DOORS INTERLOCKED TO PREVENT LASER OPERATION WHEN OPEN
 - SYSTEM FULLY COMPLIANT WITH BS EN 60825-1 AND MIRA GUIDANCE
- NOTES:
- ALL THEATRE AND PREP ROOM DOORS ARE FULLY INTERLOCKED TO PREVENT LASER OPERATION WHEN OPEN
 - SYSTEM COMPLIANT WITH BS EN 60825-1 AND MIRA GUIDANCE
 - ALL INTERCONNECTING CABLES (LSZH) SHOWN AS DASHED LOW-VOLTAGE CONTROL LINES ON ELECTRICAL PLANS
 - LABEL 'LASER INTERLOCK CONTROL'

1 GROUND FLOOR SECURITY SYSTEM PLAN
SCALE: 1/128" = 1'-0"



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT

CONSENT OF THE DESIGNER.

NOTES:

- ALL DIMENSIONS HEREIN ARE IN METRIC UNITS UNLESS STATED OTHERWISE.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR MUST CHECK ALL DIMENSION AT SITE BEFORE COMMENCING WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY ADJACENT STRUCTURES.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT:

HEALTH CARE

TITLE: GROUND FLOOR SECURITY SYSTEM PLAN

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:
1/128" = 1' 0"

DATE :
August 28, 2026

DRAWING NO. REV.
E - 7



CLIENT:

ADDRESS:
79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:
ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:

1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN 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.

REFERENCE:

[illegible]

PROJECT: HEALTH CARE

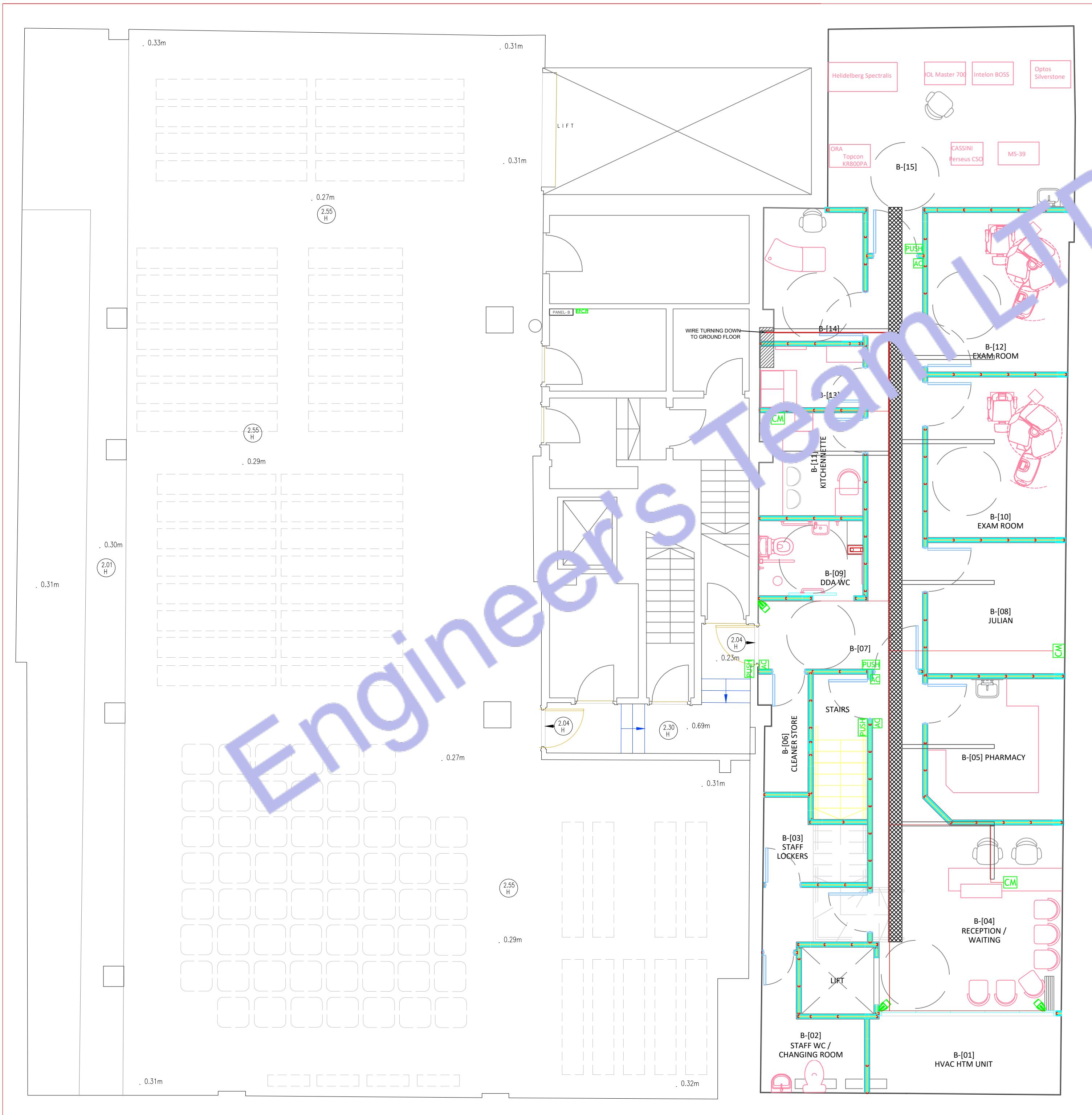
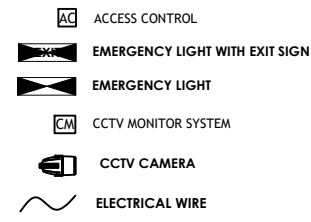
TITLE: BASEMENT FLOOR
SECURITY SYSTEM PLAN

PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: $1/128" = 1' 0"$
-----------	-------------	------------------------------------

DATE : August 28, 2026

DRAWING NO.	REV.
E - 8	

Legend:



2 BASEMENT FLOOR SECURITY SYSTEM PLAN
SCALE: 1/128" = 1'-0"



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:
79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:
ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:
1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT:
HEALTH CARE

TITLE: **GROUND FLOOR FIRE
PROTECTION PLAN**

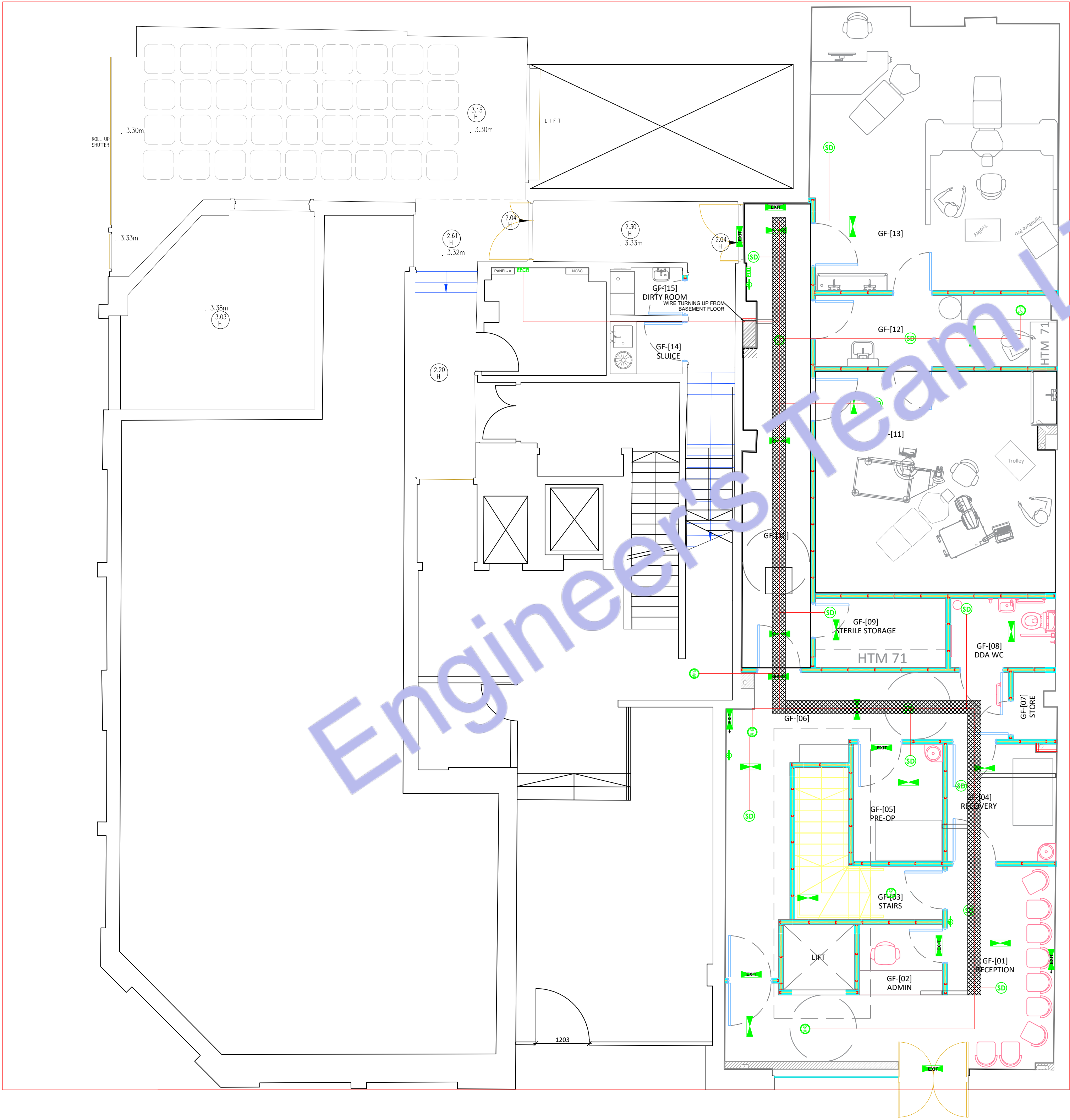
PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: 1/128" = 1' 0"
-----------	-------------	----------------------------------

DATE :
August 28, 2026

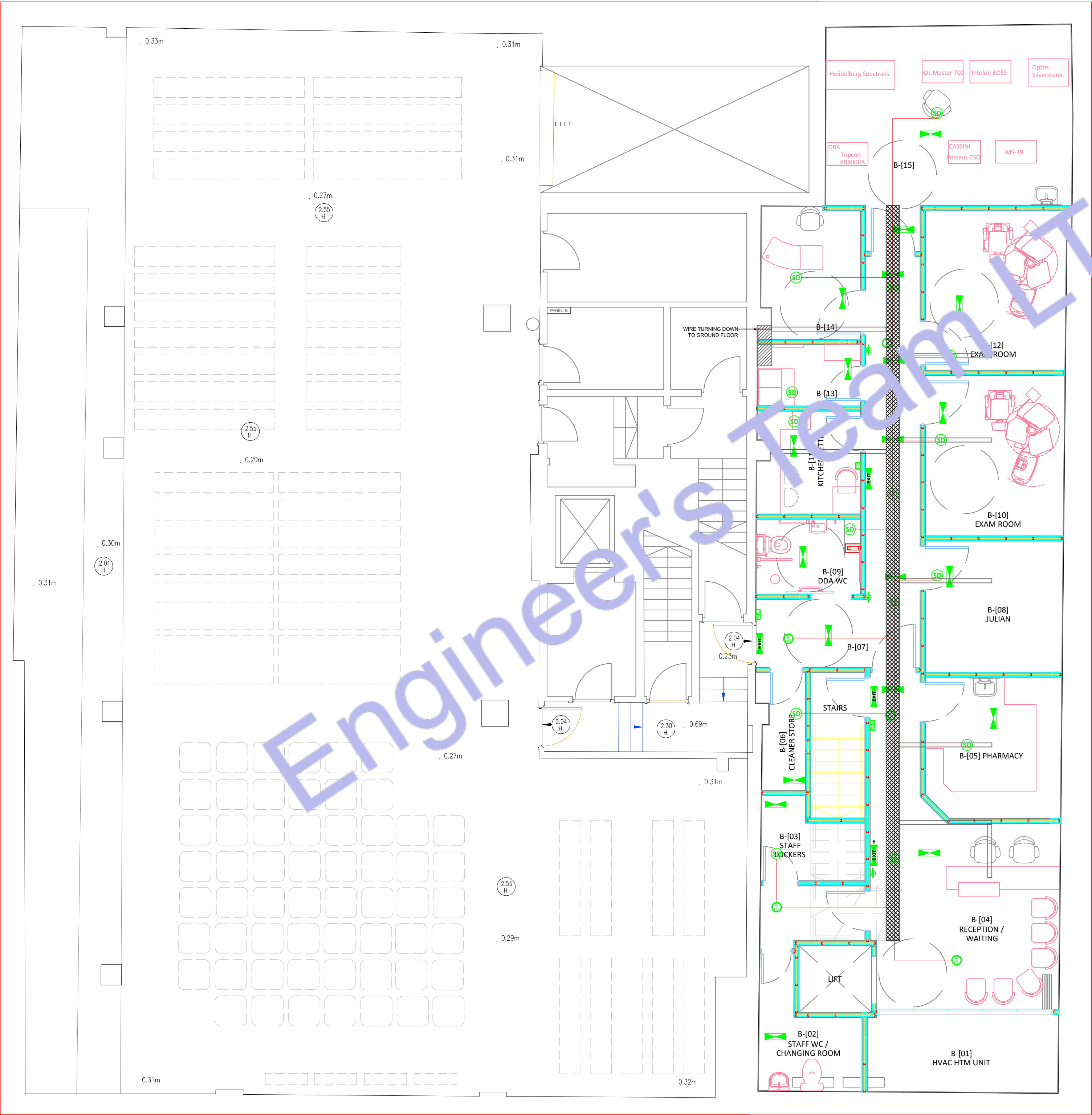
DRAWING NO. E - 9	REV.
----------------------	------

Legend:

- ⊙ SMOKE DETECTOR
- ⊙ SMOKE & HEAT DETECTOR
- ⊢ FUSE BOX
- ~ ELECTRICAL WIRE
- FCB FIRE PROTECTION CONTROL PANEL
- FB FIRE BLANKET
- PB PULL BUTTON
- FE FIRE EXTINGUISHER



1 GROUND FLOOR FIRE PROTECTION PLAN
SCALE: 1/128" = 1'-0"



Legend:

- SMOKE DETECTOR
- SMOKE & HEAT DETECTOR
- FIRE BOX
- ELECTRICAL WIRE
- FIRE PROTECTION CONTROL PANEL
- FIRE BLANKET
- PULL BUTTON
- FIRE EXTINGUISHER



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:

- ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.
- THESE DRAWINGS ARE TO BE READ IN
CONJUNCTION WITH ALL RELEVANT DESIGNER,
ENGINEER OR SPECIALIST DRAWINGS AND
SPECIFICATIONS.
- THE CONTRACTOR MUST CHECK ALL
DIMENSION AT SITE BEFORE COMMENCING
WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR
PROVIDING ALL NECESSARY TEMPORARY
SUPPORT TO THE BUILDING AND ANY ADJACENT
STRUCTURES.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: HEALTH CARE

TITLE: BASEMENT FLOOR FIRE
PROTECTION PLAN

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:
1/128" = 1' 0"

DATE :
August 28, 2026

DRAWING NO. REV.
E - 1 0



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:
79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:
ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:
1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT:
HEALTH CARE

TITLE: GROUND FLOOR ESCAPE
ROUTE PLAN

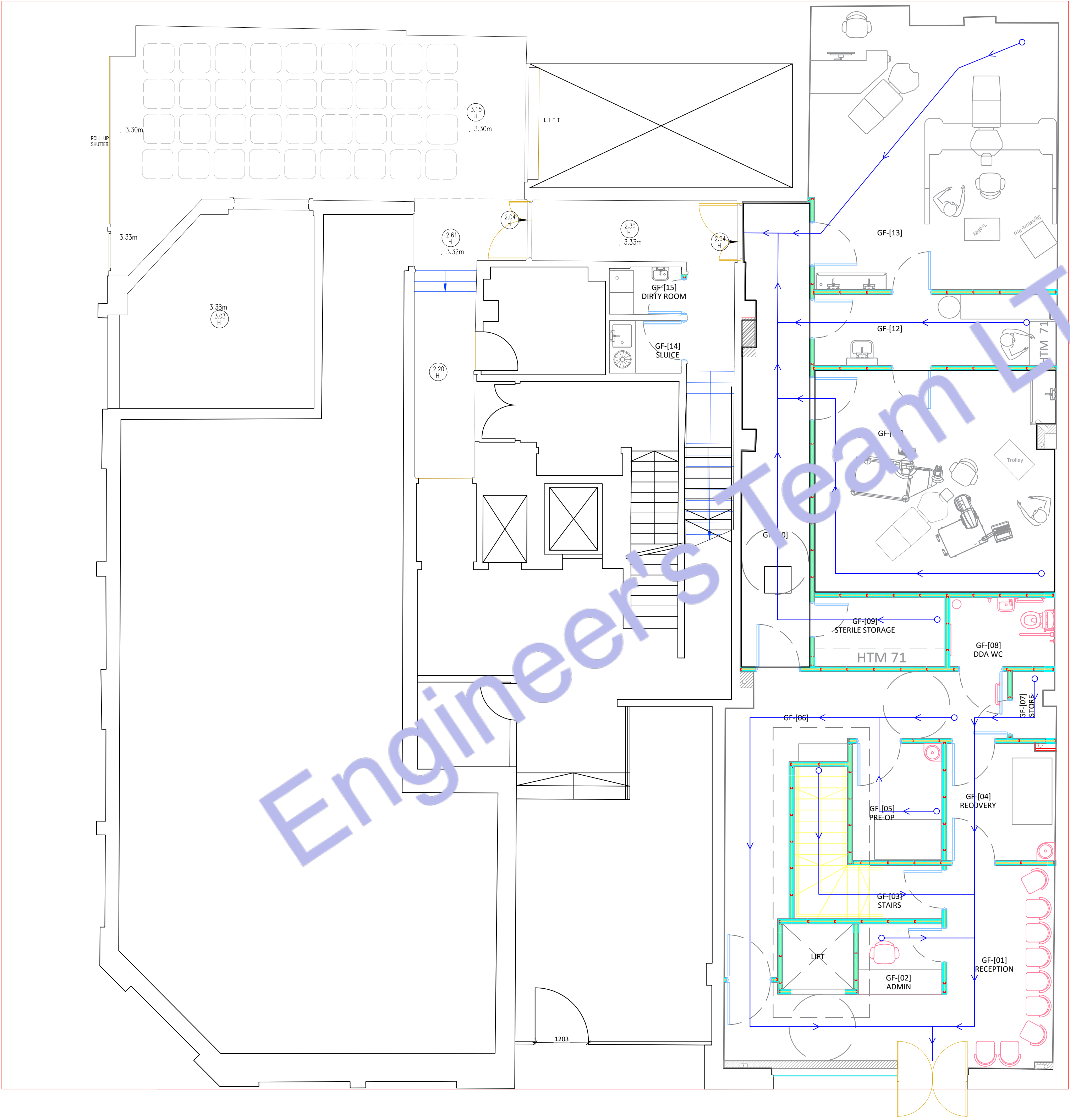
PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: 1/128" = 1' 0"
-----------	-------------	----------------------------------

DATE :
August 28, 2026

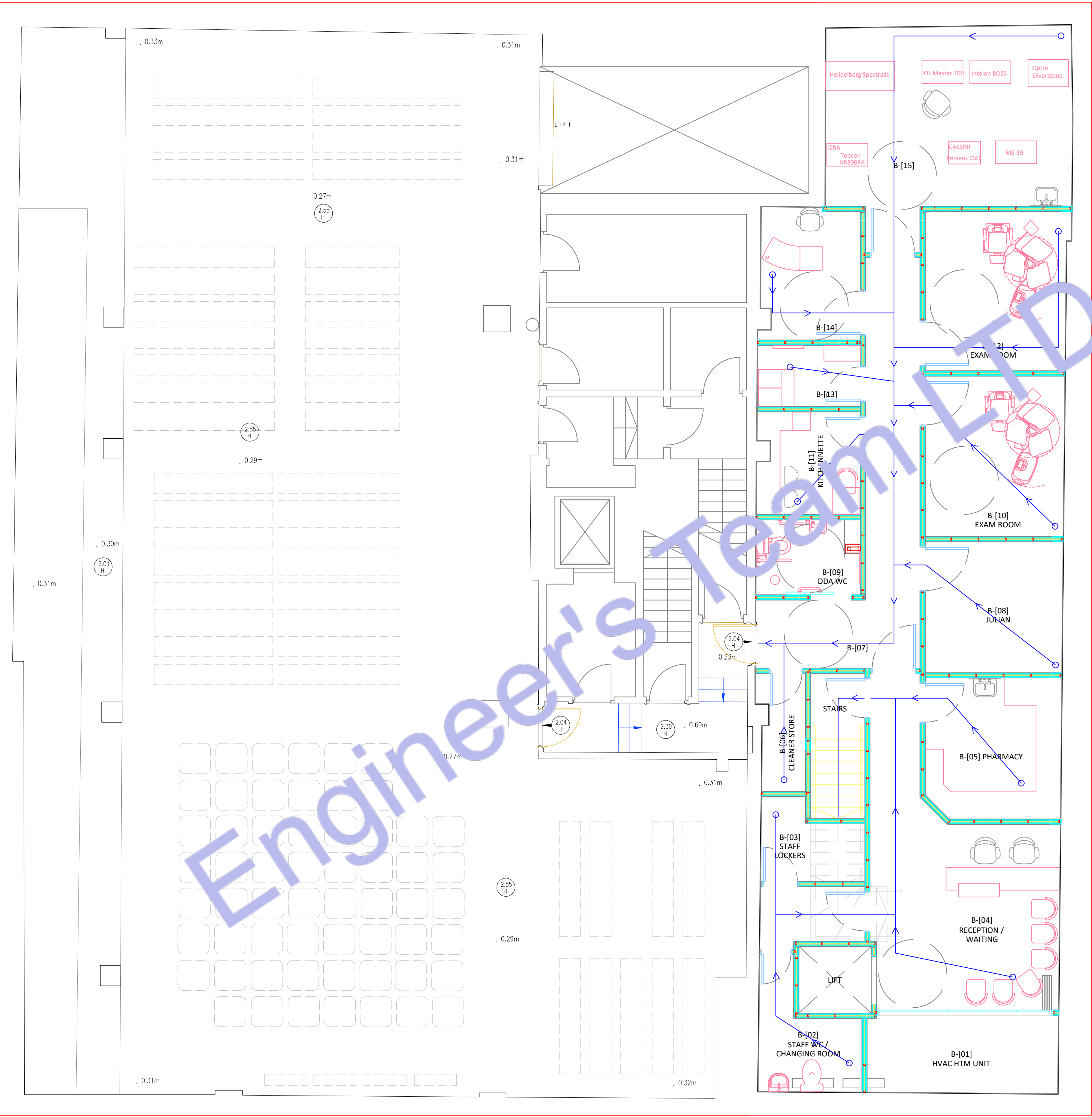
DRAWING NO. E - 1 1	REV.
------------------------	------

Legend:

← ESCAPE ROUTE & DIRECTION



1 GROUND FLOOR ESCAPE ROUTE PLAN
SCALE: 1/128" = 1'-0"



Legend:

← ESCAPE ROUTE & DIRECTION

2 BASEMENT FLOOR ESCAPE ROUTE PLAN
SCALE: 1/128" = 1'-0"



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT

CONSENT OF THE DESIGNER.

NOTES:

1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.

2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT:

HEALTH CARE

TITLE: BASEMENT FLOOR ESCAPE
ROUTE PLAN

PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: 1/128" = 1' 0"
-----------	-------------	----------------------------------

DATE :
August 28, 2026

DRAWING NO. E - 1 2	REV.
------------------------	------



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT

CONSENT OF THE DESIGNER.

NOTES:

1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.

2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT:

HEALTH CARE

TITLE: **GROUND FLOOR NURSE
CALL PLAN**

PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: 1/128" = 1' 0"
-----------	-------------	----------------------------------

DATE :
August 28, 2026

DRAWING NO. E - 1 3	REV.
-------------------------------	------

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:

- N NURSE CALL BUTTON
- NCBC NURSE CALL SYSTEM CONTROLLER
- POWER CABLE
- SIGNAL CABLE
- 300MM CABLE TRAY
- 20X12 TRUNKING
- 20MM CONDUIT
- 150X50 TRUNKING
- 25MM CONDUIT

1 GROUND FLOOR NURSE CALL SYSTEM PLAN

Scale: 1/128" = 1'-0"



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:
ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:
1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: HEALTH CARE

TITLE: BASEMENT FLOOR NURSE
CALL PLAN

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:
1/128" = 1' 0"

DATE :
August 28, 2026

DRAWING NO. REV.
E - 1 4

Note:
Interior Lighting Efficiency

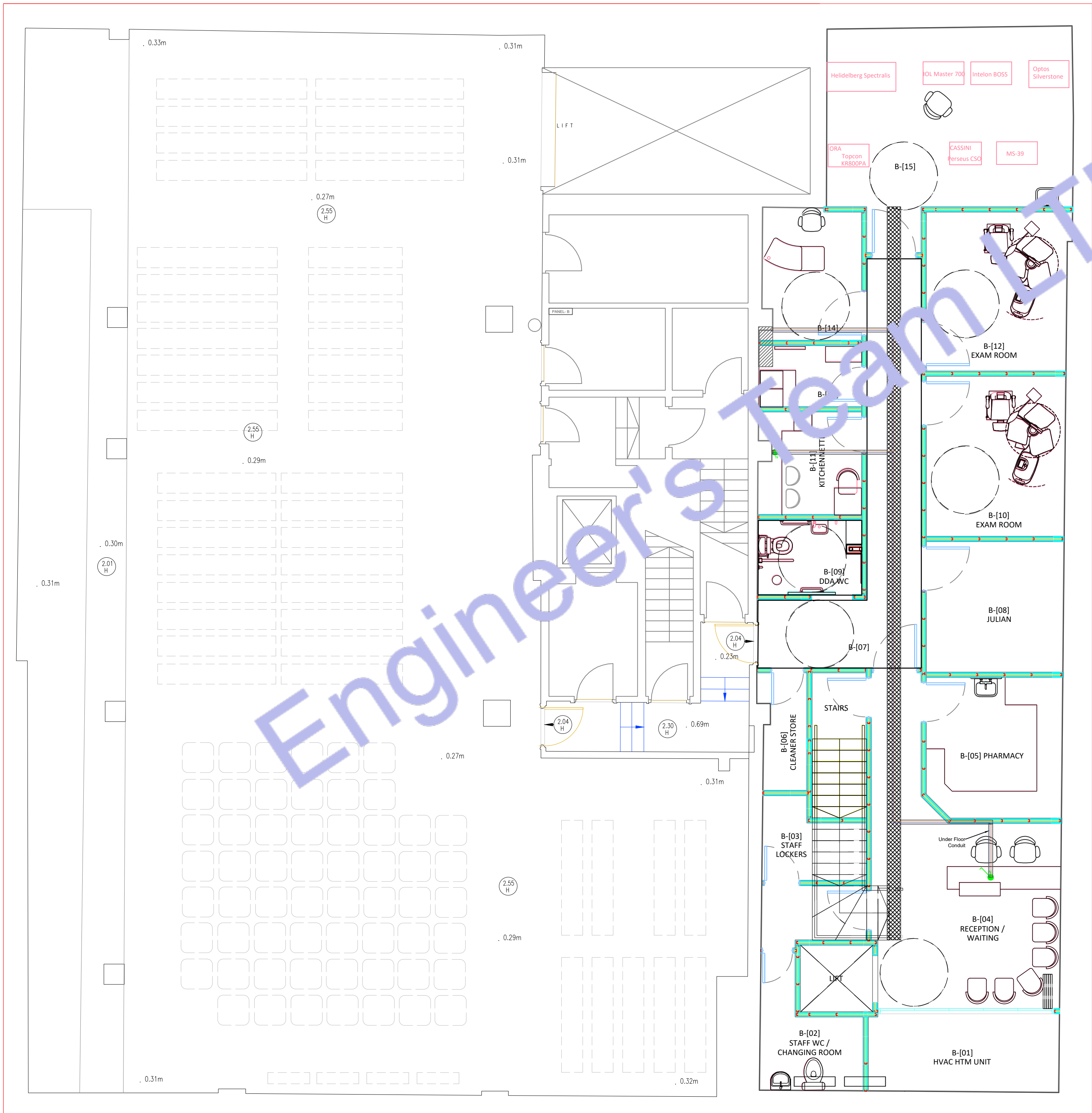
Each interior fixed lighting fitting shall provide a lamp with a
luminous efficacy of at least 75 lumens per circuit watt with
installation.

Equipments Height:
SWITCH = 1200MM
ISOLATOR = 1450MM
WALL LIGHT = 1450MM
PANEL BOX = 1450MM
CT = 1450MM
FFCP = 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:

- N NURSE CALL BUTTON
NCSG NURSE CALL SYSTEM CONTROLLER
POWER CABLE
SIGNAL CABLE
300MM CABLE TRAY
20X12 TRUNKING
20MM CONDUIT
150X50 TRUNKING
25MM CONDUIT





Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:
ALL DRAWINGS AND WRITTEN MATERIALS
APPEARING HEREIN CONSTITUTE THE
ORIGINAL AND UNPUBLISHED WORK OF THE
DESIGNER AND THE SAME MAY NOT BE
DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

NOTES:
1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS
UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN
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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT:

HEALTH CARE

TITLE: **ELECTRICAL LOAD
SCHEDULE & SLD**

PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: N/A
-----------	-------------	-----------------------

DATE :
August 28, 2026

DRAWING NO. E - 1 5	REV.
----------------------------	------

GF PANEL															
Panel Location- Voltage (Phase-Ground/Phase-Phase)		230	400	Source of Supply-From Service Disconnect/Meter											
Phase-1				Wire-3											
Rated Amps-60				AIC-10k											
MCCB 60 Amps MCCB Type-B				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	MCB, Type-B	15	1	1.5	1825	900	2.5	1	20	MCB, Type-B	N	CB-02 CP	2
3	CB-01 CP	N	MCB, Type-B	20	1	2.5	2300	600	2.5	1	20	MCB, Type-B	N	CB-04 NP	4
5	CB-03 CP	N	MCB, Type-B	20	1	2.5	600	600	2.5	1	20	MCB, Type-B	N	CB-06 NP	6
7	CB-05 CP	N	MCB, Type-B	20	1	2.5	2500	1000	2.5	1	20	MCB, Type-B	N	CB-08 NP	8
9	CB-07 NP	N	MCB, Type-B	20	1	2.5	1200	250	2.5	1	20	MCB, Type-B	N	CB-LASER CP	10
11	CB-09 NP	N	MCB, Type-B	20	1	2.5	600	--	--	--	--	--	--	SPARE	12
13	SPARE	--	--	--	--	--	--	--	--	--	--	--	--	SPARE	14
15	SPARE	--	--	--	--	--	--	--	--	--	--	--	--	SPARE	16
17	SPARE	--	--	--	--	--	--	--	--	--	--	--	--	SPARE	18
19	SPARE	--	--	--	--	--	--	--	--	--	--	--	--	SPARE	20
							A								
							Connected Load (W)		12375						
							Connected Amps		53.80						
							Main Type and Amps Rating		60 Amps MCCB Type-B						

Demand Load Calculation			
Load Classification	Connected Load	Demand Factor	Estimated Demand
Lighting - Dwelling Unit	1825	125%	2281.25
Water Heater - Dwelling Unit	0	100%	0
Receptacle	10550	65%	6857.5
Cooling	0	100%	0
Pump	0	125%	0
Other	0	100%	0
Demand Load	12375		9138.75
Demand Amps			39.73369565

MAIN PANEL																		
Panel Location- Voltage (Phase-Ground/Phase-Phase)		230	400	Source of Supply-From Service Disconnect/Meter														
Phase-1 Rated Amps-170				Wire-3 AIC-10k														
MCCB 170 Amps MCCB				Mounting- Wall Surface														
Circuit	Description	New/ Existing	Load Type	Breaker Size	Poles	Wire Size	A	B	C	Wire Size	Poles	Breaker Size	Load Type	New/ Existing	Description	Circuit		
1	ALL LOADS	N	SPD	170	3	50	48509	48509			50	3	170	RCD	N	ALL LOADS	2	
3						50			32134	32134	50						4	
5						50				37034	37034						50	6
7	GF PANEL	N	MCB, Type-B	60	1	16	12375	15300			16	1	70	MCB, Type-B	N	B PANEL	8	
9	HVAC HTM-1 NP	N	MCB, Type-B	50	1	10			11300	13334	16						10	
11	HVAC HTM-2 NP	N	MCB, Type-B	75	1	16				16200	13334	16	3	60	MCB, Type-B	N	WATER HEATER NP	12
13	LIFT NP	N	MCB, Type-B	35	3	4	7500	13334			16	3	60	MCB, Type-B	N		14	
15						4			7500	0	16							
17						4			7500	0	18							
19	SPARE	--	--	--	--	--	0	0			--	--	--	--	--	SPARE	20	
							A	B	C	Total								
							48509	32134	37034	117677								
							Connected Load (W)											
							Connected Amps		169.86									
							Main Type and Amps Rating		170 Amps MCCB									
Demand Load Calculation																		
Load Classification		Connected Load	Demand Factor	Estimated Demand														
Lighting - Commercial Unit		3625	125%	4531.25														
Water Heater - Commercial Unit		40000	100%	40000														
Receptacle		46552	65%	30258.8														
Cooling		27500	100%	27500														
Pump		0	125%	0														
Other		0	100%	0														
Demand Load		117677		102290.05														
Demand Amps				148.2464493														

B PANEL															
Panel Location- Voltage (Phase-Ground/Phase-Phase)		230	400	Source of Supply-From Service Disconnect/Meter											
Phase-1				Wire-3											
Rated Amps-70				AIC-10k											
MCCB 70 Amps MCCB Type-B				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	MCB, Type-B	15	1	1.5	1800	1000	2.5	1	20	MCB, Type-B	N	CB-11 NP	2
3	CB-10 NP	N	MCB, Type-B	20	1	2.5	1000	800	2.5	1	20	MCB, Type-B	N	CB-13 NP	4
5	CB-12 NP	N	MCB, Type-B	20	1	2.5	1200	2500	2.5	1	20	MCB, Type-B	N	CB-15 NP	6
7	CB-14 CP	N	MCB, Type-B	20	1	2.5	1800	800	2.5	1	20	MCB, Type-B	N	CB-17 NP	8
9	CB-16 CP	N	MCB, Type-B	20	1	2.5	1800	1400	2.5	1	20	MCB, Type-B	N	CB-19 NP	10
11	CB-18 NP	N	MCB, Type-B	20	1	2.5	1200	--	--	--	--	--	--	SPARE	12
13	SPARE	--	--	--	--	--	--	--	--	--	--	--	--	SPARE	14
15	SPARE	--	--	--	--	--	--	--	--	--	--	--	--	SPARE	16
17	SPARE	--	--	--	--	--	--	--	--	--	--	--	--	SPARE	18
19	SPARE	--	--	--	--	--	--	--	--	--	--	--	--	SPARE	20
							A								
							Connected Load (W)								
							300								
							Connected Amps								
							66								
							Main Type and Amps Rating								
		70 Amps MCCB Type-B													

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: Ⓢ

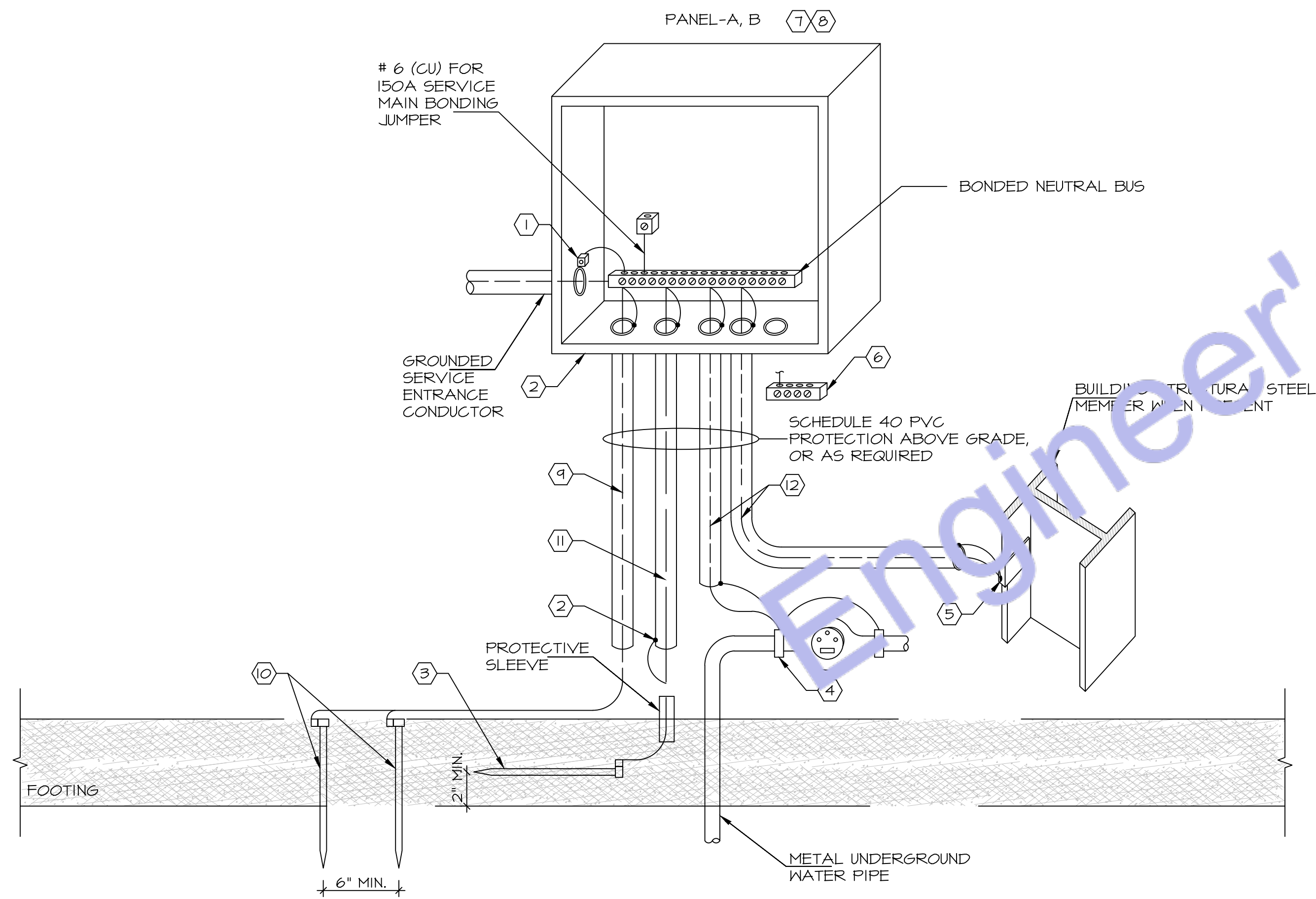
- I. ALL METAL CONDUITS ENCLOSING ANY SERVICE SHALL BE FITTED WITH A "BONDING BUSHING".
2. ALL METAL CONDUITS ENCLOSING ANY GROUNDING ELECTRODE CONDUCTOR SHALL BE FITTED WITH A "BONDING BUSHING" AT EACH END.
3. PROVIDE GROUNDING ELECTRODE PER NEC. ELECTRODE SHALL BE IN THE FORM OF A 20'-0" x 1/2" COPPER 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.

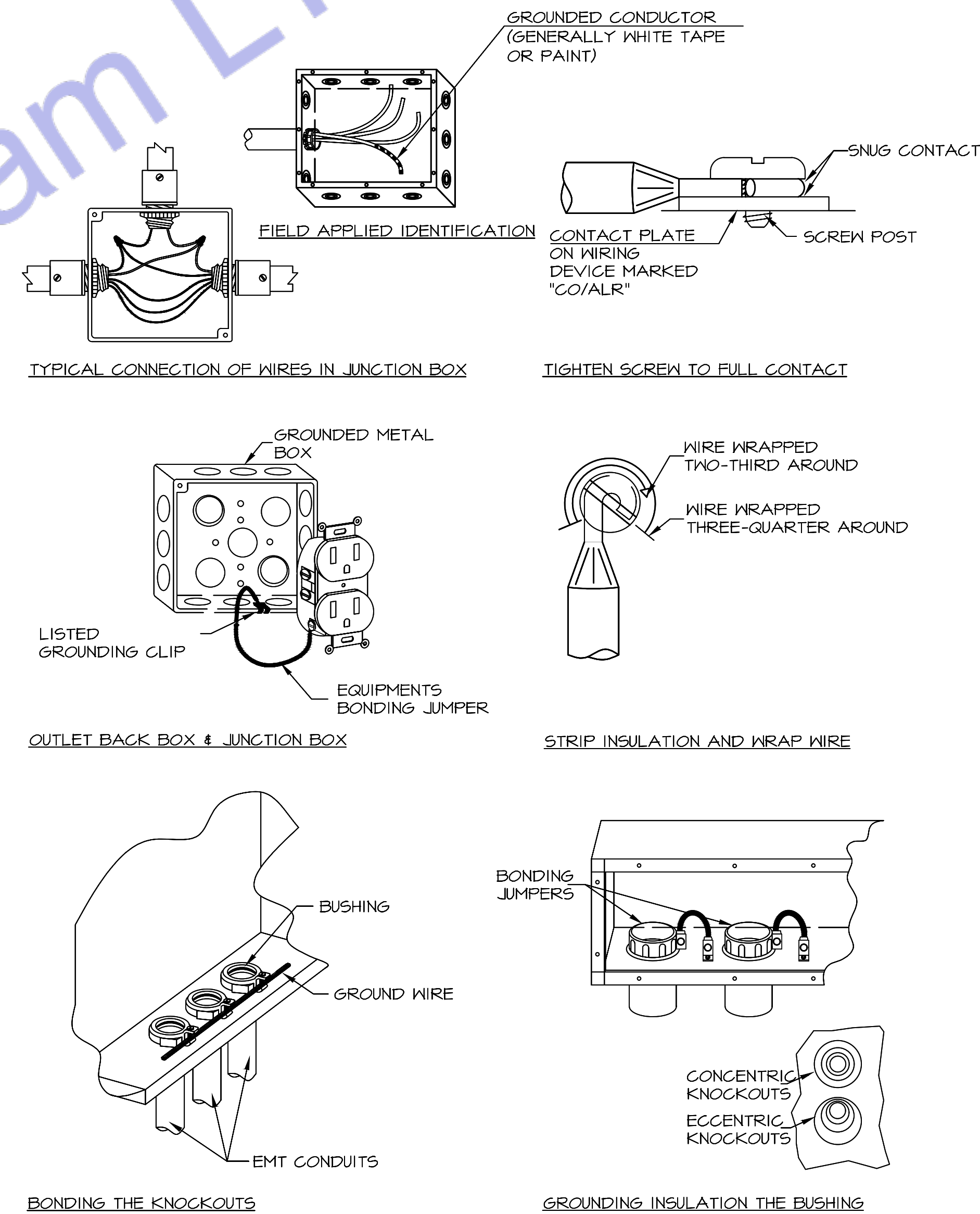
- INTERSYSTEM BONDING TERMINATION SHALL:
- 6.1. BE ACCESSIBLE FOR CONNECTION AND INSPECTION.
- 6.2. CONSIST OF A SET OF TERMINALS (LISTED AS GROUNDING AND BONDING EQUIPMENT) WITH THE CAPACITY OF NOT LESS THAN THREE INTERSYSTEM BONDING CONDUCTORS.
- 6.3. BE SECURELY MOUNTED AND ELECTRICALLY CONNECTED 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
E500 SCALE: NOT TO SCALE



2 BONDING DETAILS
E500 SCALE: NOT TO SCALE



Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT:

ADDRESS:

79-83 Great Portland St, W1W 7LS

CONFIDENTIALITY STATEMENT:
ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE DESIGNER AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT CONSENT OF THE DESIGNER.

NOTES:
1. ALL DIMENSIONS HEREIN ARE IN METRIC UNITS UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN 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.

REFERENCE:

REV. NO.	DESCRIPTION	DATE	BY

PROJECT: HEALTH CARE		
TITLE: ELECTRICAL INSTALLATION INSTRUCTION		
PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: N/A
DATE : August 28, 2026		
DRAWING NO. E - 1 6		REV.



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

 support@engrteam.com

 <https://engrteam.com>

OUR SERVICES:

- MEP Plan Services
- HVAC Layout Plan
- Electrical Engineering Services
- Plumbing Engineering Services
- Fire protection & Security systems
- Specialized services

INFORMATION:

- Studio
- Contact Us
- Gift cards
- Privacy Policy
- Refund Policy
- Delivery Policy