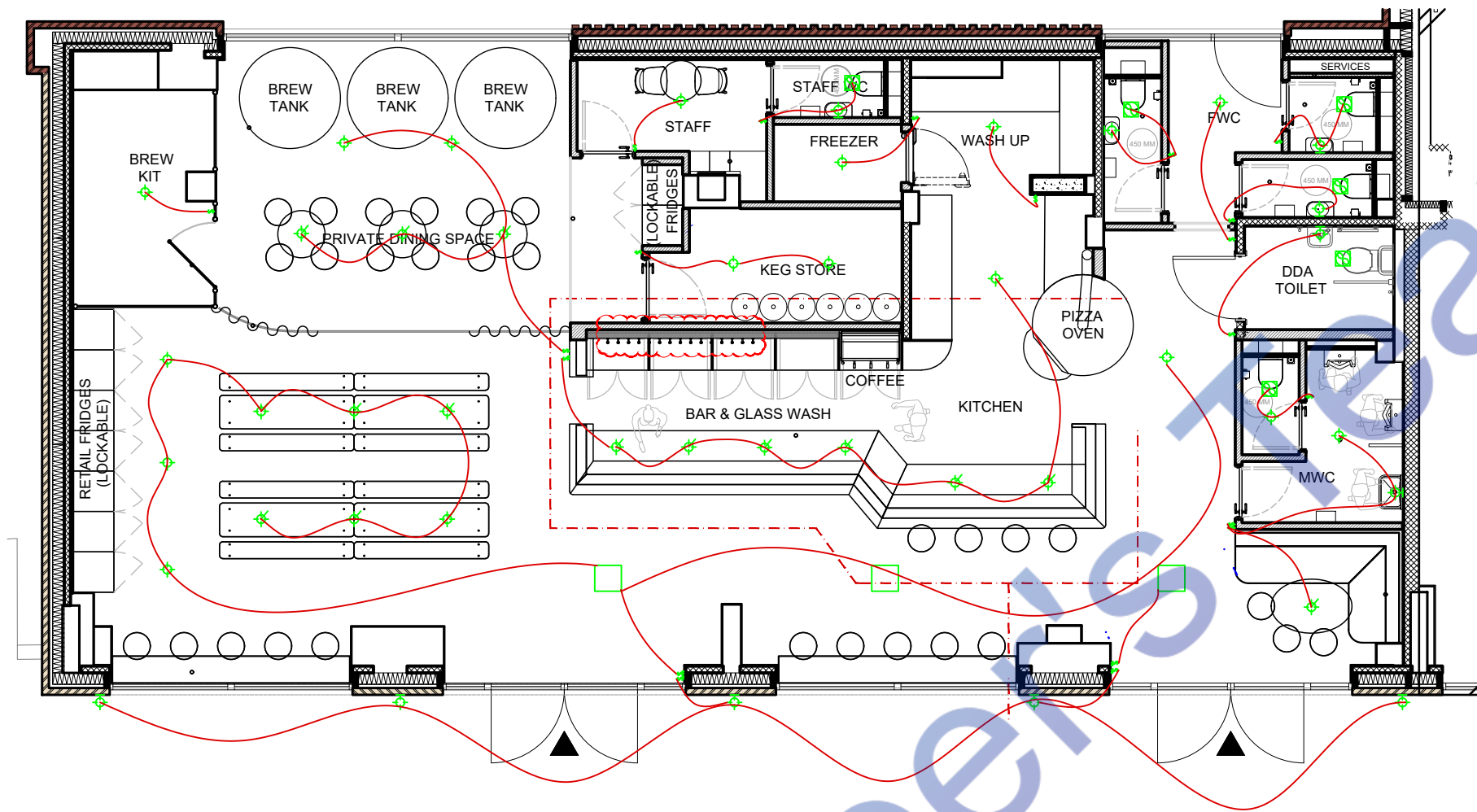




ELECTRICAL LEGEND	
	20W CEILING MOUNT LED LIGHT
	20W HANGING LED LIGHT
	SMOKE DETECTOR
	40W LED TUBE LIGHT 4 FEET
	40W LED LIGHT 4x4
	ONE WAY SWITCH 220V
	MULTI SOCKET OUTLET 220V
	10W WALL MOUNTED LED LIGHT
	60W CEILING FAN 220V
	SUB DISTRIBUTION BOARD
	MAIN DISTRIBUTION BOARD
	40W BATHROOM EXHAUST FAN
	CALLING BELL



ENGINEER'S TEAM

430 E 8TH ST STE 8017
HOLLAND MI 49423

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OWNER:

GENERAL ARRANGEMENT PLAN

ROCK LEOPARD BREWERY
13 WAGTAIL WALK, LONDON, SE2 9FE

SEAL:

Release for construction

ELECTRICAL LIGHTING PLAN

Drawn by: Engr. Al Amin

Checked:

Date: NOV, 24.

E. 1

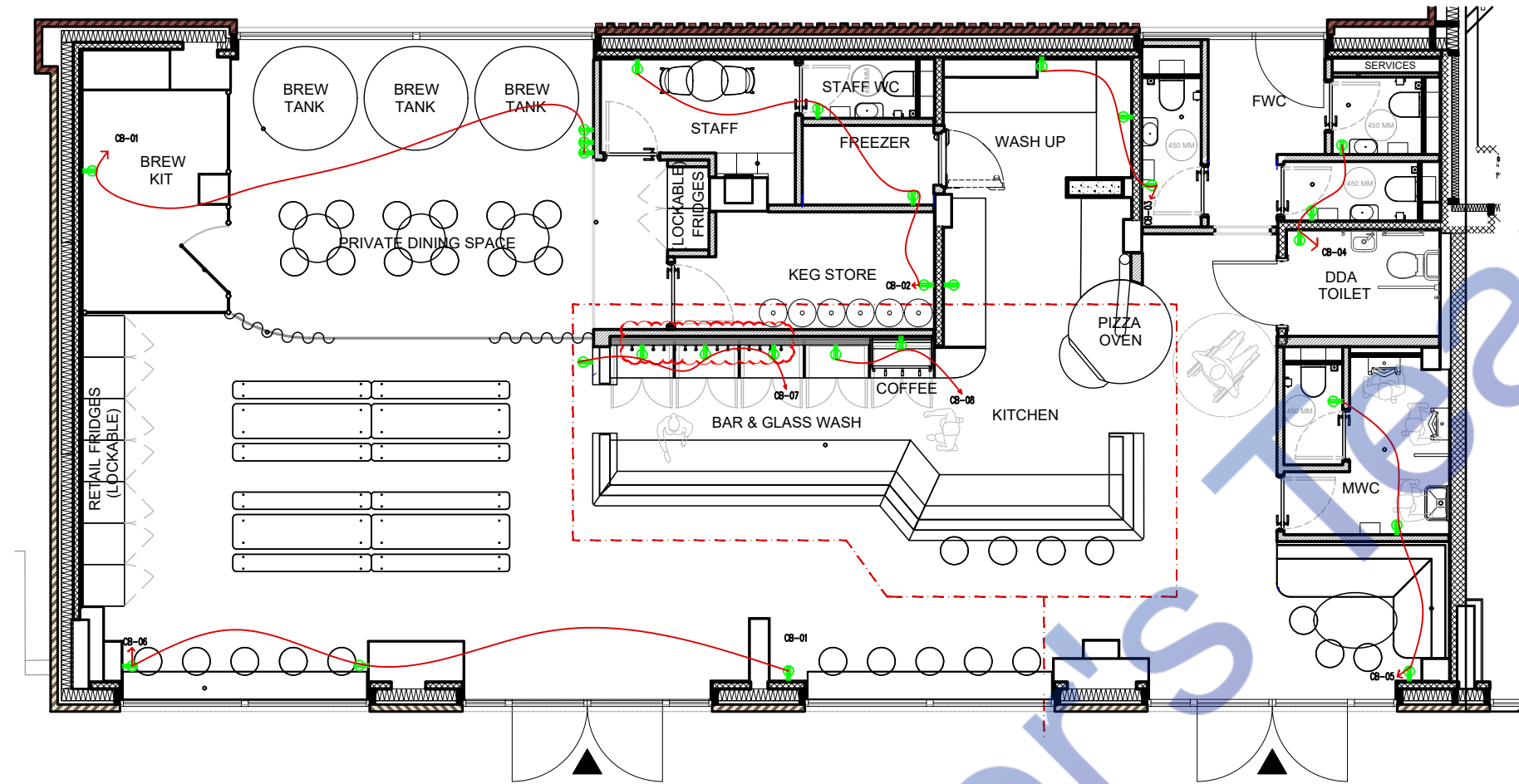
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Note:

This Electrical Layout Plan has been developed for Rock Leopard Brewery, located at 13 Wagtail Walk, London, SE2 9FE. In designing this layout, we have ensured compliance with all applicable electrical codes and standards for brewery installations. The following regulatory codes and guidelines have been adhered to:

- British Standards (BS): The layout follows **BS 7671 (18th Edition)***, ensuring safety and regulatory compliance with wiring installations in the UK. This standard covers requirements for circuit design, fault protection, and grounding, which are critical in brewery environments with high energy loads and wet conditions.
- Electrical Safety Standards: We have also incorporated **UK Health and Safety Executive (HSE) guidelines** specific to brewery installations. These include provisions for safe electrical practices, risk mitigation for high-load machinery, and ventilation to avoid overheating and moisture build-up.
- IP Ratings and ATEX Directives: We have used equipment that complies with **Ingress Protection (IP) ratings** appropriate for moisture-prone areas and **ATEX standards** where applicable, ensuring explosion-proofing and safety in environments where flammable vapors may be present.
- Three-Phase Power Requirements: As breweries typically require significant electrical power, especially for three-phase motors and pumps, this plan accounts for adequate power distribution, aligned with guidelines for industrial settings (as advised by the Asia Brewers Network).

This document certifies that the electrical plan is up-to-date with all required codes, prioritizing safety, operational efficiency, and regulatory compliance throughout the installation at Rock Leopard Brewery.



ELECTRICAL LEGEND

- MULTI SOCKET OUTLET 120V
- GFCI MULTI SOCKET OUTLET 120V
- INSTANT WATER HEATER



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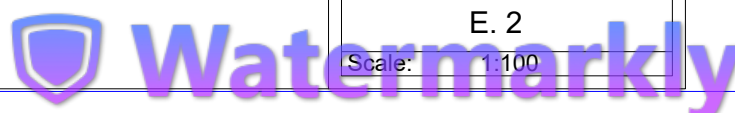
Release for construction

ELECTRICAL POWER PLAN

Drawn by:	Engr. Al Amin
Checked:	
Date:	NOV, 24.

E. 2

Scale: 1:100

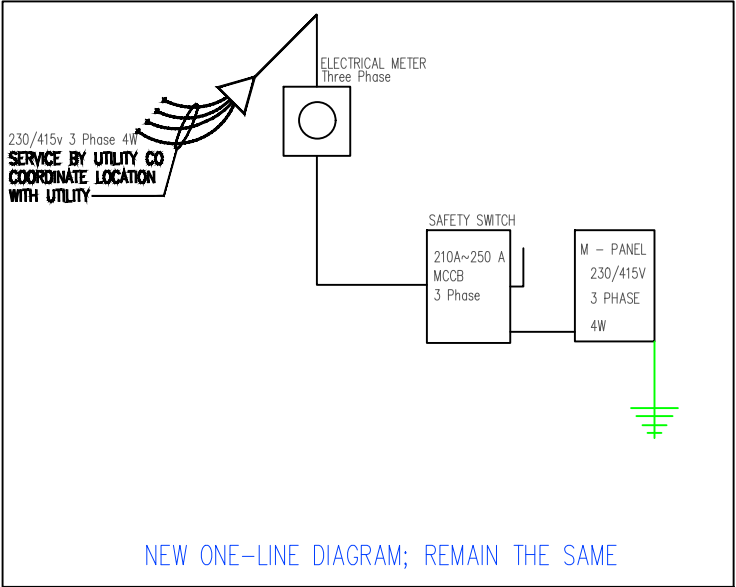


230/415 VOLT 3 PHASE 4 WIRE ELECTRICAL SERVICE				
ITEM	CONN. LOAD (VA)	DEMAND F.	DEMAND LOAD (WATTS)	TOTAL (AMPS)
LIGHTING	1100	125%	1375	
WATER HEATERS	2000	100%	2000	
EQUIPMENT	10866	65%	7063	
HVAC LOADS	24618	100%	24618	
SUB-TOTAL	38584		35056	
LARGEST MOTOR	0	125%	0	
TOTAL @ 230V/415 V	38584		35056	51

1 E200 PANEL SCHEDULE & SERVICE CALCULATION

Material	
Name	Watt
CEILING MOUNT ROUND LED LIGHT	20W
WALL MOUNT LED LIGHT	10W
CEILING MOUNT 2"X2" SQUARE LED LIGHT	40W
HANGING LIGHT	20W

ELECTRICAL PANEL - MAIN													
LOAD SERVED	CKT #	TYPE	BKR TRIP	WIRE SIZE	PHASE A	PHASE B	PHASE C	PHASE A	BKR TRIP	WIRE SIZE	TYPE	CKT #	LOAD SERVED
HVAC-7 TONS	1		80	#3	8206			1100	20	#12		2	LIGHTING LOAD
	3		120	#1/0		8206		2000	100	#3		4	WATER HEATER
	5		120	#1/0			8206	3000	120	#1/0		6	CB-1
CB-4	7		20	#12	500			1500	20	#1/0		8	CB-2
CB-5	9		100	#3	500			500	120	#1/0		10	CB-3
CB-6	11		100	#3	500			1000	20	#12		12	CB-7
CB-8	13		0	#12	1683			0	0	#12		14	SPARE
	15		0	#12		1683		0	0	#12		16	SPARE
SPARE	17		0	#12	0			0	0	#12		18	SPARE
TOTAL VA PHASE A					11389			9100					20489
TOTAL VA PHASE B						9889							9889
TOTAL VA PHASE C							8206						8206
TOTAL VOLT-AMPS													38584
DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE)						230		AMPS		168			
TOTAL CONNECTED LOAD (AMPS) @ 125%						210							
MAIN TYPE AND AMPERE RATING						210-250 AMP MCCB							
PANEL FEEDER SIZE - SEE RISER DIAGRAM													



1 E200 SINGLE LINE DIAGRAM



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ELECTRICAL LOAD SHEDULE PLAN

Drawn by: Engr. Al Amin

Checked:

Date: NOV, 24.

E. 3

Scale: 1:100

