

GENERAL SPECIFICATIONS

1. GENERAL (All specifications on this sheet as applicable)
- A. Work indicated on these drawings is diagrammatic and shall not be scaled. The drawings are intended to convey the scope of works and indicate the general arrangement of engineered systems. The Contractor shall verify all existing site conditions, dimensions, and services and make all necessary adjustments to complete the works in accordance with the Contract Documents.
- B. Provide all labour, materials, plant, tools, equipment, and services required to execute the works in accordance with the Contract Documents. All supplementary or incidental items necessary for a complete, safe, and fully operational installation shall be deemed included, whether or not specifically shown, at no additional cost to the Client.
- C. All equipment under this contract shall be fully installed, tested, commissioned, and left operational to the satisfaction of the Client and Engineer. These drawings are intended to represent finished works, tested and ready for use. Wherever the word "provide" is used, it shall mean supply, install, test, and commission complete.
- D. All materials and equipment shall be new, of first quality, UKCA/CE marked where applicable, and compatible with existing systems. Installation shall be carried out strictly in accordance with manufacturers' recommendations, relevant British Standards, and recognised good engineering practice.
- E. Where existing pipework, ductwork, containment, cabling, or other obstructions are encountered, the Contractor shall remove, reroute, rearrange, or relocate such items as necessary, subject to approval, at no additional cost.
- F. The Contractor shall obtain written approval prior to cutting or forming penetrations through slabs, walls, ceilings, roofs, or shafts for services. All disturbed areas shall be made good using matching materials and finishes. All penetrations through fire-resisting elements shall be sealed with approved fire-stopping systems to maintain fire integrity in accordance with Building Regulations Approved Document B.
- G. The Contractor shall maintain a clean and safe site at all times. Waste and debris shall be removed regularly. Upon completion, all tools, surplus materials, and temporary works shall be removed and the site left clean and ready for occupation.
2. COORDINATION AND PROGRAMMING
- A. The Contractor shall fully coordinate and programme the works of all trades. All existing site conditions shall be verified to avoid conflicts in routing, sequencing, and installation.
- B. The Contractor shall be responsible for full coordination between all subcontractors, suppliers, statutory authorities, utility providers, Building Control, the Architect/Engineer, building management, and the Client.
- C. No work shall commence until accurate site measurements and verification of existing structures, ceilings, services, and retained installations have been completed, where these may affect the installation of new systems or equipment.
- D. Works shall be phased and programmed to minimise disruption to occupied areas. A detailed programme shall be submitted for approval. Temporary partitions, dust control, and protective barriers shall be provided where necessary.
- E. The Contractor shall provide a minimum of fourteen (14) days' written notice prior to any required shutdown of utilities and shall obtain written approval before proceeding.
- F. The Contractor shall be deemed to have examined the premises and understood all conditions under which the works are to be carried out. No allowance shall be made for errors or omissions arising from failure to inspect the site.
3. CODES, PERMITS, AND INSPECTIONS (UK)
- A. All works shall be carried out in accordance with the latest applicable UK legislation, regulations, and standards. The Contractor shall obtain and pay for all required permits and approvals and arrange all inspections by the relevant Authorities Having Jurisdiction.
- B. Final approval and sign-off by Building Control and all relevant authorities shall be obtained at project completion. All completion certificates shall be issued and provided to the Client.
- C. Works shall comply with the current editions of all applicable British Standards, Building Regulations, and statutory requirements enforced at the project location.
- D. Codes and standards referenced represent minimum requirements. Where Contract Documents require a higher standard, the Contract Documents shall take precedence. Any conflicts shall be reported in writing prior to commencement.
- E. The Contractor shall comply with all Health and Safety Executive (HSE) requirements, including the Health and Safety at Work Act 1974 and CDM Regulations 2015.
- F. The Contractor shall comply with all requirements of statutory utility providers and local authorities.
4. WARRANTY
- A. All works shall be free from defects in workmanship and materials for a period of twelve (12) months from the date of Practical Completion. Any defects arising within this period shall be rectified by the Contractor at no additional cost.
5. SHOP DRAWINGS
- A. Shop drawings and product data shall be submitted electronically to the Engineer, Architect, and Client for approval. Submittals shall include manufacturers' technical data and certified performance information for all new equipment.
6. RECORD DRAWINGS / AS-BUILTS
- A. The Contractor shall maintain a complete and up-to-date set of marked-up drawings on site, recording all changes made during construction. Final as-built drawings and associated documentation shall be submitted to the Client upon completion of the works.

PLUMBING GENERAL NOTES & SPECIFICATIONS

- A. All water supply and vent pipework shall be routed as high as practicable and concealed above ceilings unless noted otherwise. All soil and waste pipework shall be routed as high as practicable below floor slab or floor structure unless noted otherwise.
- B. All soil and waste pipework shall be installed at gradients appropriate to pipe size and in accordance with BS EN 12056 and Approved Document H. All gradients and invert levels shall be verified prior to installation to ensure correct falls are maintained. The Contractor shall confirm that pipe routes and connections are feasible before commencing works.
- C. Provide complete and proper soil, waste, vent, hot water, and cold water connections to all fixtures and equipment, whether or not all branches, fittings, or connectors are shown on the drawings. Refer to sanitary waste and water riser diagrams for pipe sizes and system configuration.
- D. The potable water system shall be flushed, cleaned, and disinfected in accordance with BS EN 806, Water Supply (Water Fittings) Regulations 1999, and local water authority requirements.
- E. The Plumbing Contractor shall coordinate with relevant subcontractors regarding the quantity and locations of access panels required for valves and fittings within walls and ceilings. Access panels shall be provided by the appropriate trade.
- F. Where horizontal water pipework conflicts with vent pipework within wall cavities, the Contractor shall provide additional water pipe drops or alternative routing to maintain compliance and accessibility.
- G. All pipe penetrations below sinks shall be sealed. All pipe penetrations through floor slabs or fire-resisting elements shall be sealed with approved fire-stopping materials in accordance with Approved Document B.
- H. Provide individual isolation valves to all plumbing fixtures and appliances. Valves shall be full-bore WRAS-approved ball valves suitable for potable water systems, with threaded, compression, or soldered connections as appropriate.
- I. The Contractor shall verify on site the exact location, depth, and direction of flow of all existing drainage and sewer pipework within the building and below ground prior to commencement of works.
- J. All pipework shall be adequately supported from existing or new structure using suitable proprietary pipe hangers and supports. Design, selection, spacing, and installation shall comply with relevant British Standards, manufacturers' recommendations, and good engineering practice.
- K. Slab Penetrations: Prior to any cutting or coring of slabs, suitable detection methods (such as ground-penetrating radar or equivalent) shall be used to identify reinforcement, post-tensioning cables, services, or conduits. Written approval from the Structural Engineer shall be obtained before proceeding.
- L. The Contractor shall make good all existing finishes, surfaces, and elements damaged during construction to match existing, unless otherwise noted.
- M. Provide and install dielectric or insulating unions where connections are made between dissimilar metals, as required to prevent galvanic corrosion.
- N. No new pipework shall be installed above new or existing electrical switchboards, distribution boards, panelboards, or motor control centres.
- O. Provide escutcheon plates at all locations where pipework passes through walls, floors, or ceilings. Plates shall fully cover penetration openings or sleeves. Finishes shall be chrome or nickel plated in exposed areas and primed/painted finish in concealed areas.

PLUMBING PIPING & INSULATION

- DOMESTIC WATER PIPING
1. Above ground domestic water pipework shall be copper tube manufactured in accordance with BS EN 1057, hard-drawn (R250) temper, complete with wrought copper fittings. Joints shall be made using lead-free solder and non-corrosive flux suitable for potable water systems, installed in accordance with Water Supply (Water Fittings) Regulations 1999.
2. Provide full-bore isolation ball valves of dezincification-resistant brass or bronze construction, WRAS-approved for potable water use, with threaded, compression, or soldered ends as appropriate. Valves shall be suitable for the system operating pressure and temperature.
- WASTE AND VENT PIPING
1. Soil, waste, and vent pipework shall be installed in accordance with BS EN 12056 and Approved Document H. Use only one of the following approved materials:
- Cast iron soil pipe systems to BS EN 877
- Copper waste and vent pipework to BS EN 1057
- Galvanised steel pipework where permitted
- All fittings shall be compatible with the selected pipe material and system.
2. Plastic pipework (PVC-U, HDPE, or other approved materials) may be used for cold water, hot water, soil, waste, and vent systems where permitted by Building Regulations and the local authority. All plastic pipework shall be installed in accordance with Approved Document H. Where roofs are accessible or use any other permanent pipework, it shall terminate at a safe height above roof level in accordance with regulations.
- INSULATION
1. Provide thermal insulation to all pipework and equipment in accordance with BS 5422 and Building Regulations Approved Document L. Insulation materials shall have appropriate fire performance classifications in accordance with BS EN 13501-1. Installation shall comply strictly with the insulation manufacturer's instructions. All cold water pipework shall be provided with a continuous vapour barrier to prevent condensation. External pipework insulation shall be protected with a suitable weather-resistant jacket.
- 1.1. Domestic cold water pipework: minimum 13 mm thickness
- 1.2. Domestic hot water pipework: minimum 25 mm thickness
- 1.3. Domestic circulating hot water pipework: minimum 25 mm thickness

PLUMBING CODE NOTES

1. Condensate Drainage
- Condensate drains shall not be connected to the sanitary sewer system and shall not discharge into mop sinks or similar plumbing fixtures. Condensate shall be disposed of in accordance with applicable plumbing codes and local AHJ requirements.
2. Water Hammer Arrestors
- Provide water hammer arrestors at all quick-closing valves and fixtures, including but not limited to:
- Water closets
 - Dishwashers
 - Clothes washers
- Other solenoid- or fast-acting valve equipment, as applicable
- Water hammer arrestors shall conform to ASSE 1010 and be installed in accordance with manufacturer's recommendations.
3. Trap Seal Protection
- Provide trap primers or approved barrier-type trap seal protection devices for all floor drains subject to evaporation or infrequent use.
- Trap seal protection devices shall comply with ASSE 1072 and shall be installed per the manufacturer's installation instructions.

NATURAL GAS PIPING

1. GENERAL
- Gas installation shall conform to the requirements of the Gas Safety (Installation and Use) Regulations (GSIUR), BS 6891, IGM/UP/2, IGM/UP/1, and all applicable UK standards and Local Authority / Gas Transporter requirements.
2. PIPING
- A. Steel Pipe – 50 mm (2") and Smaller
- Carbon steel pipework shall comply with BS EN 10255 (Medium Grade), black steel, threaded ends. Threaded joints shall be in accordance with BS 21.
- Malleable iron threaded fittings shall comply with BS EN 10242, Class A or B.
- B. Steel Pipe – 65 mm (2½") and Larger
- Carbon steel pipework shall comply with BS EN 10255 (Medium or Heavy Grade), welded joints. Steel butt-weld fittings shall comply with BS EN 10253.
3. VALVE LOCATIONS
- Gas isolation valves shall not be installed within ceiling voids or air plenums and shall remain readily accessible for operation and maintenance in accordance with BS 6891.
4. CONCEALED PIPING
- A. Concealed Locations
- Gas pipework installed in concealed locations shall use approved permanent jointing methods only. The following fittings and joint types are not permitted in concealed locations:
- Unions
 - Compression fittings
 - Gasketed joints
 - Mechanical couplings
 - Bushings
 - Swing joints
 - Running threads
- All concealed joints shall be welded, brazed, or threaded as permitted by UK standards.
- B. Piping in Partitions
- Gas pipework shall not be embedded in solid walls, concrete, or masonry.
- Pipework routed within partitions shall be sleeved or otherwise protected against mechanical damage.
- Pipework passing through walls or partitions shall be sleeved and sealed in accordance with BS 6891.
5. UNIONS
- Where permitted, unions shall comply with BS EN 10242, malleable iron, ground-joint type, suitable for gas service, and installed only in accessible locations.
6. DIELECTRIC JOINTS
- Where dissimilar metals are connected, provide approved insulating joints to prevent galvanic corrosion in accordance with IGM standards and manufacturer recommendations.
7. CORROSION PROTECTION
- Where gas pipework is exposed to corrosive environments or installed externally, pipe and fittings shall be protected using:
- Factory-applied protective coating or
 - Site-applied corrosion protection system suitable for gas installations
- Protection systems shall comply with BS EN ISO 12944 and manufacturer requirements.
8. PLUG VALVES (65 mm and Larger)
- Plug valves shall comply with BS EN 331 or BS EN 13774, suitable for gas service, with a minimum pressure rating appropriate to the system design.
- Gas valves shall not be installed above ceilings.
9. GAS COCKS (50 mm and Smaller)
- Gas cocks shall be:
- CE-marked and approved for gas service
 - Bronze or brass body
 - Suitable for operating pressure and system
 - Provided with lever or square-headed handle
 - Threaded connections shall comply with BS 21
10. BALL VALVES
- Ball valves shall be:
- Full-bore type
 - CE-marked and approved for gas service
 - Brass or copper body with appropriate seals
 - Rated for the system design pressure
 - Installed in accessible locations only
11. GAS PRESSURE REGULATORS
- Gas pressure regulators shall be:
- CE-marked and approved for gas service
 - Sized for the inlet pressure, outlet pressure, and gas flow rate indicated
 - Installed in well-ventilated, accessible locations
- Regulators shall be vented to atmosphere where required by:
- The Gas Transporter
 - The regulator manufacturer
- Vent piping shall:
- Be of the same material as the gas pipework
 - Discharge externally to a safe, non-hazardous location
 - Terminate with a downward-facing outlet fitted with corrosion-resistant insect screening
12. TESTING AND COMMISSIONING
- Gas pipework shall be pressure tested, purged, and commissioned in accordance with:
- BS 6891
 - IGM/UP/1 or IGM/UP/2
 - Gas Transporter requirements
 - Local Authority and Building Control regulations
- Test certificates shall be submitted prior to system energisation.

PLUMBING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
		EXISTING PIPING OR EQUIPMENT TO REMAIN
		EXISTING PIPING OR EQUIPMENT TO BE REMOVED
	CW	DOMESTIC COLD WATER
	HW	DOMESTIC HOT WATER
	HWC	DOMESTIC HOT WATER RECIRCULATION
	WP	SANITARY SOIL AND WASTE
	VP	SANITARY VENT
	D	DRAIN LINE
	PD	PUMPED DISCHARGE
	G	NATURAL GAS
	ST	STORM WATER
		PIPE TURNING UP
		PIPE TURNING DOWN
		VALVE IN VERTICAL
		PIPE BRANCH BOTTOM TAKEOFF
		PIPE BRANCH TOP TAKEOFF
		CAPPED PIPE
		BALL VALVE
		CHECK VALVE
		UNION
		GATE VALVE
	PRV	PRESSURE REDUCING VALVE
		GAS COCK
		GAS METER
		COMBINATION BALANCING AND SHUT-OFF VALVE
	FDC	FIRE DEPARTMENT CONNECTION
		PIPE DIRECTION OF FLOW
	FD	FLOOR DRAIN
		POINT OF REMOVAL
		POINT OF CONNECTION TO EXISTING
		KEYED NOTE, DEMOLITION
		KEYED NOTE, NEW WORK

ABBREVIATIONS

(E)	EXISTING TO REMAIN	KW	KILOWATTS
(R)	EXISTING TO BE REMOVED AND RELOCATED	L	LAVATORY
(RE)	RELOCATED EQUIPMENT	LB	POUNDS
(X)	DEMOLISHED EQUIPMENT	MAX	MAXIMUM
ABV	ABOVE	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MBH	THOUSANDS OF BTU'S PER HOUR
BFP	BACKFLOW PREVENTER	MIN	MINIMUM
BTU	BRITISH THERMAL UNITS	MS	MOP SINK
CISPI	CAST IRON SOIL PIPE INSTITUTE	NSF	NATIONAL SANITARY FOUNDATION
CLG	CEILING	OD	OVERFLOW DRAIN
CO	CLEANOUT	OSD	OPEN SITE DRAIN
CONT	CONTINUATION	PH	PHASE
CM	COFFEE MAKER	PSI	POUNDS PER SQUARE INCH
DF	DRINKING FOUNTAIN	RD	ROOF DRAIN
DFU	DRAINAGE FIXTURE UNITS	REF	REFRIGERATOR
DN	DOWN	RL	RAIN LEADER
DW	DISHWASHER	SH	SHOWER
DWG	DRAWING	SK	SINK
EA	EACH	SQ FT	SQUARE FOOT, FEET
ELEC	ELECTRIC, ELECTRICAL	SS	SERVICE SINK
ELEV	ELEVATION	TPV	TRAP PRIMER VALVE
EW	ELECTRIC WATER COOLER	TS	TAMPER SWITCH
°F	DEGREES FAHRENHEIT	TYP	TYPICAL
FCO	FLOOR CLEANOUT	U	URINAL
FD	FLOOR DRAIN	V	VOLT, VOLTS
GAL	GALLON, GALLONS	VS	VENT STACK
GD	GARBAGE DISPOSAL	VTR	VENT THROUGH ROOF
GPH	GALLONS PER HOUR	W	WITH
GPM	GALLONS PER MINUTE	WC	WATER CLOSET
HB	HOSE BIB	WH	WATER HEATER
HD	HUB DRAIN	WHA	WATER HAMMER ARRESTOR
IM	ICE MAKER	WS	WASTE STACK
INV	INVERT ELEVATION		



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REFERENCE:
0146-ETE-110CS-GF-DR-P-40502

REV. NO.	DESCRIPTION	DATE	BY
01	Add Grease Trap & update the plumbing plans	03/02/26	AA
02	Create leak detection, Gas & Fire protection etc plans	06/27/26	AA
03	Fix HVAC system and add new system	07/21/26	AA
04	Change VRF system & Fix Ventilation	07/27/26	AA
05	Provide more information about the HVAC system	08/04/26	AA
05	HVAC Elevation Plan & Filtrations Specification.	08/16/26	AA

PROJECT: 25 WILBURY AVENUE

TITLE: GENERAL NOTE FOR
PLUMBING PLAN

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:
1:100

DATE : September 14, 2026

DRAWING NO. M - 0
REV. 6



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REV. NO.	DESCRIPTION	DATE	BY
01	Add Grease Trap & update the plumbing plans	03/02/28	AA
02	Create leak detection, Gas & Fire protection etc plans	06/27/28	AA
03	Fix HVAC system and add new system	07/21/28	AA
04	Change VRF system & Fix Ventilation	07/27/28	AA
05	Provide more information about the HVAC system	08/04/28	AA
05	HVAC Elevation Plan & Filtrations Specifications	08/16/28	AA

PROJECT: 25 WILBURY AVENUE

TITLE: PROPOSED PLUMBING LAYOUT PLAN

PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36 1:100
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DATE : September 14, 2026

DRAWING NO.	REV.
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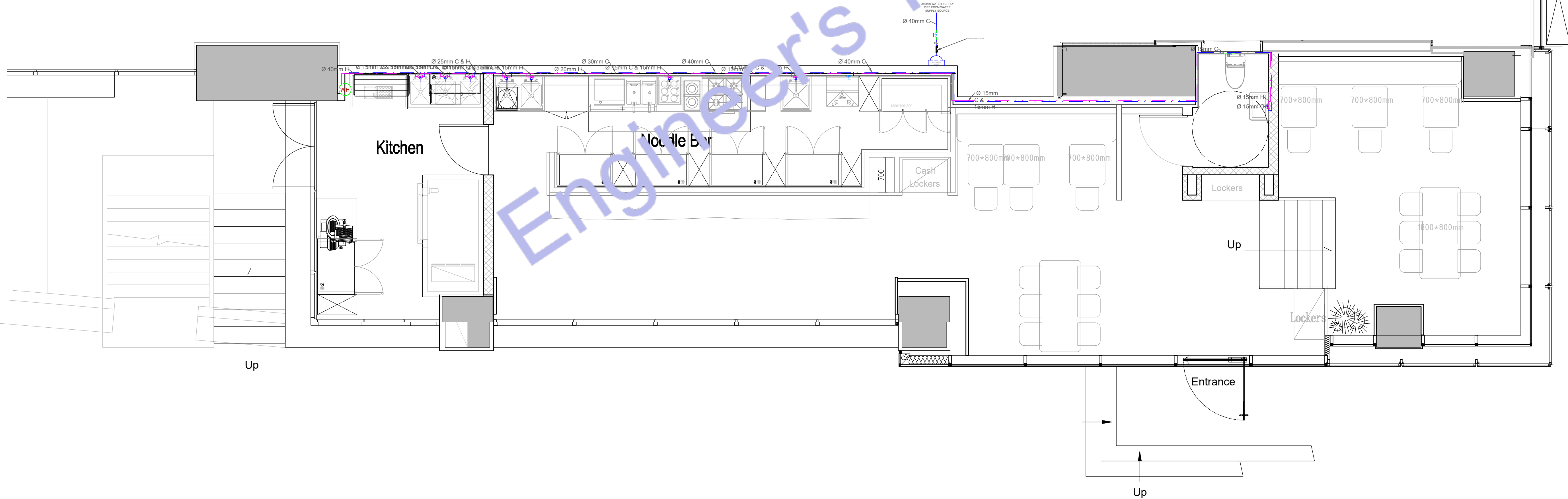
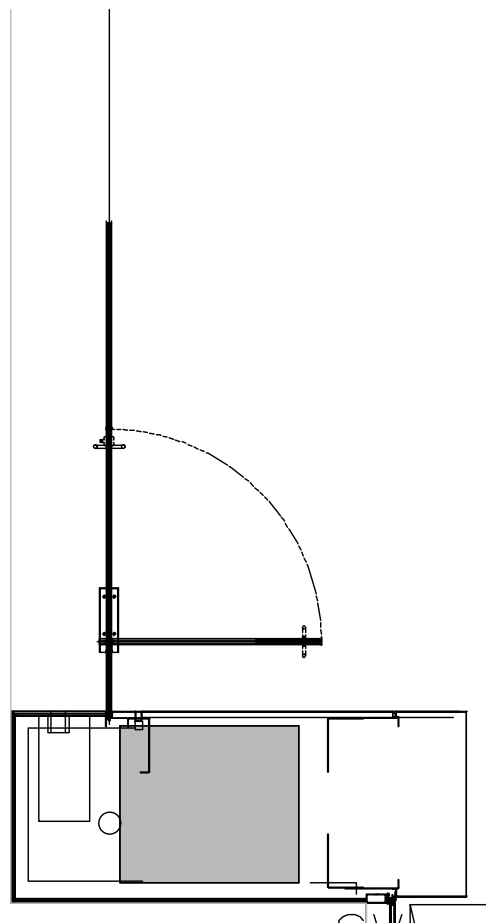
2. The drainage pipe in the basement storage room shall be requested to make sure it doesn't have any leak.

Insulated In

accordance with mar

The proposed water demand can't be accommodated by the existing building water supply without adverse impact.

	GAS LINE (G)
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PROJECT: 25 WILBURY AVENUE

TITLE: PROPOSED SEWER
LAYOUT PLAN

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:
1:100

DATE : September 14, 2026

DRAWING NO. REV.
M - 2 6

Drainage Installation Note:
All drainage and waste pipework shall be installed to appropriate falls in accordance with BS EN 12056 and Building Regulations to ensure effective gravity drainage.

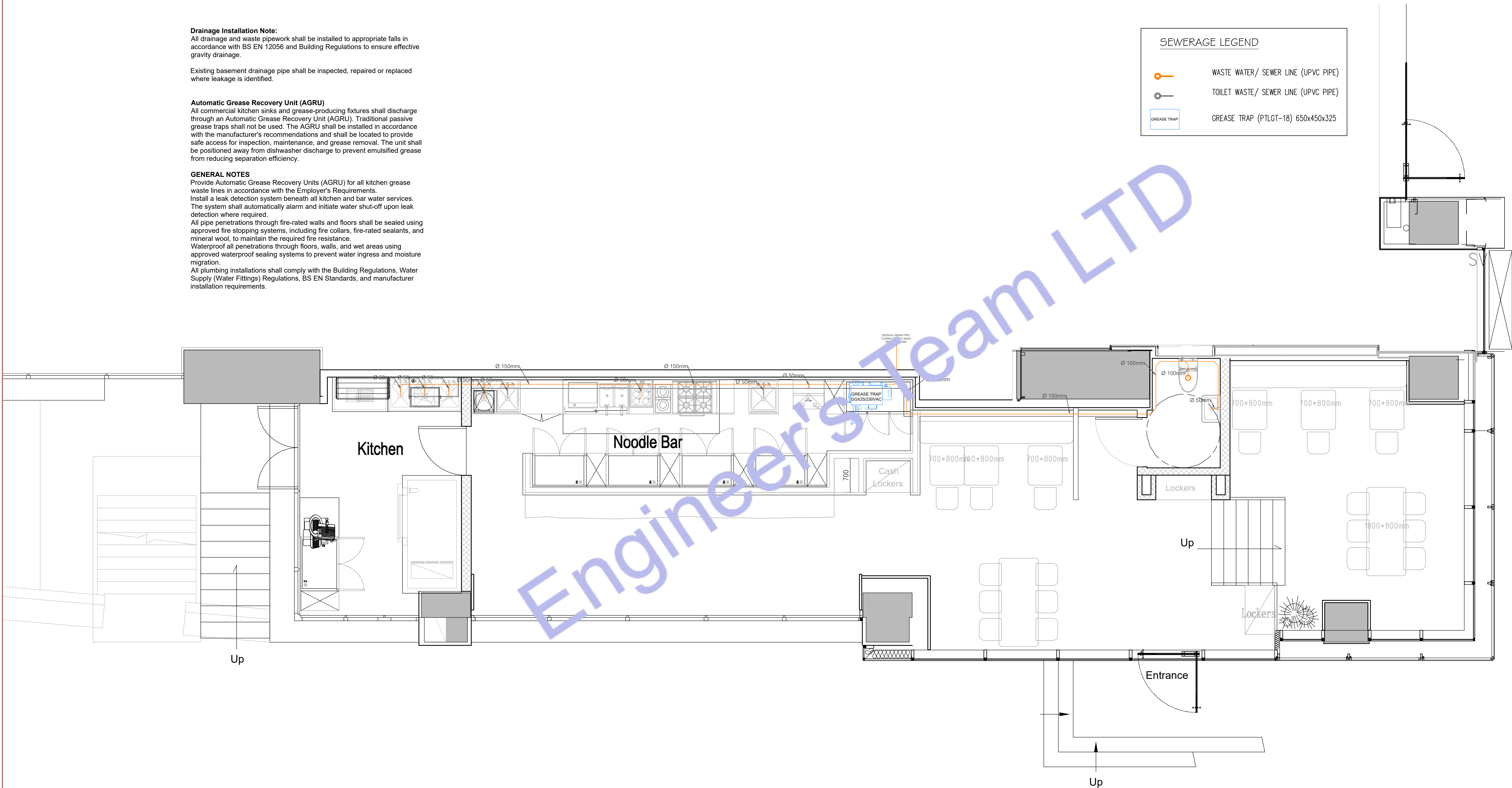
Existing basement drainage pipe shall be inspected, repaired or replaced where leakage is identified.

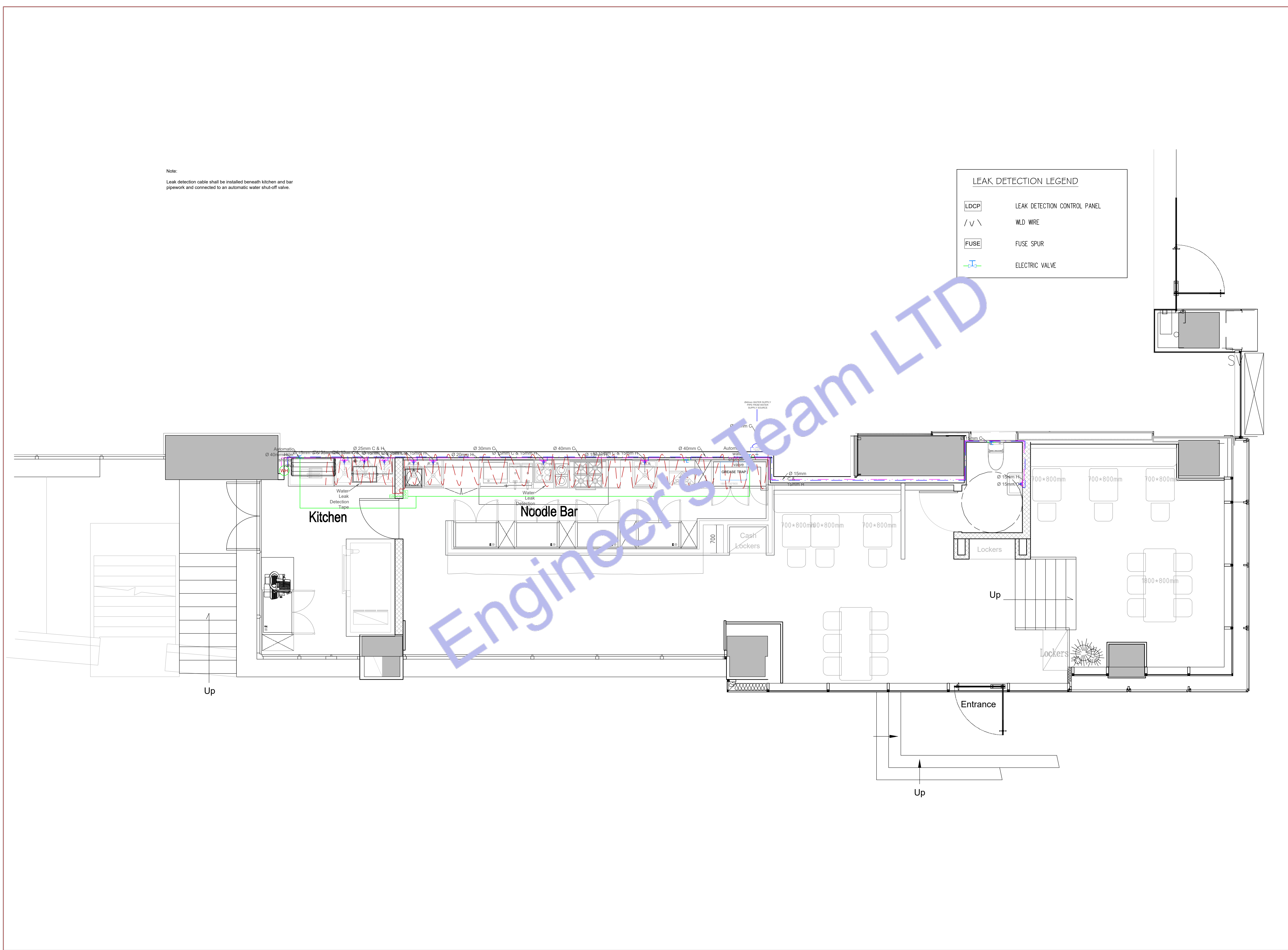
Automatic Grease Recovery Unit (AGRU)
All commercial kitchen sinks and grease-producing fixtures shall discharge through an Automatic Grease Recovery Unit (AGRU). Traditional passive grease traps shall not be used. The AGRU shall be installed in accordance with the manufacturer's recommendations and shall be located to provide safe access for inspection, maintenance, and grease removal. The unit shall be positioned away from dishwasher discharge to prevent emulsified grease from reducing separation efficiency.

GENERAL NOTES
Provide Automatic Grease Recovery Units (AGRU) for all kitchen grease waste lines in accordance with the Employer's Requirements.
Install a leak detection system beneath all kitchen and bar water services. The system shall automatically alarm and initiate water shut-off upon leak detection where required.
All pipe penetrations through fire-rated walls and floors shall be sealed using approved fire stopping systems, including fire collars, fire-rated sealants, and mineral wool, to maintain the required fire resistance.
Waterproof all penetrations through floors, walls, and wet areas using approved waterproof sealing systems to prevent water ingress and moisture migration.
All plumbing installations shall comply with the Building Regulations, Water Supply (Water Fittings) Regulations, BS EN Standards, and manufacturer installation requirements.

SEWERAGE LEGEND

- WASTE WATER/ SEWER LINE (UPVC PIPE)
- TOILET WASTE/ SEWER LINE (UPVC PIPE)
- GREASE TRAP (PTLGT-18) 650x450x325





Note:
Leak detection cable shall be installed beneath kitchen and bar
pipework and connected to an automatic water shut-off valve.

LEAK DETECTION LEGEND

LDCP

LEAK DETECTION CONTROL PANEL

/ V \

WLD WIRE

FUSE

FUSE SPUR

ELECTRIC VALVE

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05	HVAC Elevation Plan & Filtrations Specification.	08/16/26	AA

PROJECT: 25 WILBURY AVENUE

TITLE: PROPOSED WATER LEAK DETECTION SYSTEM

PROJ. NO.

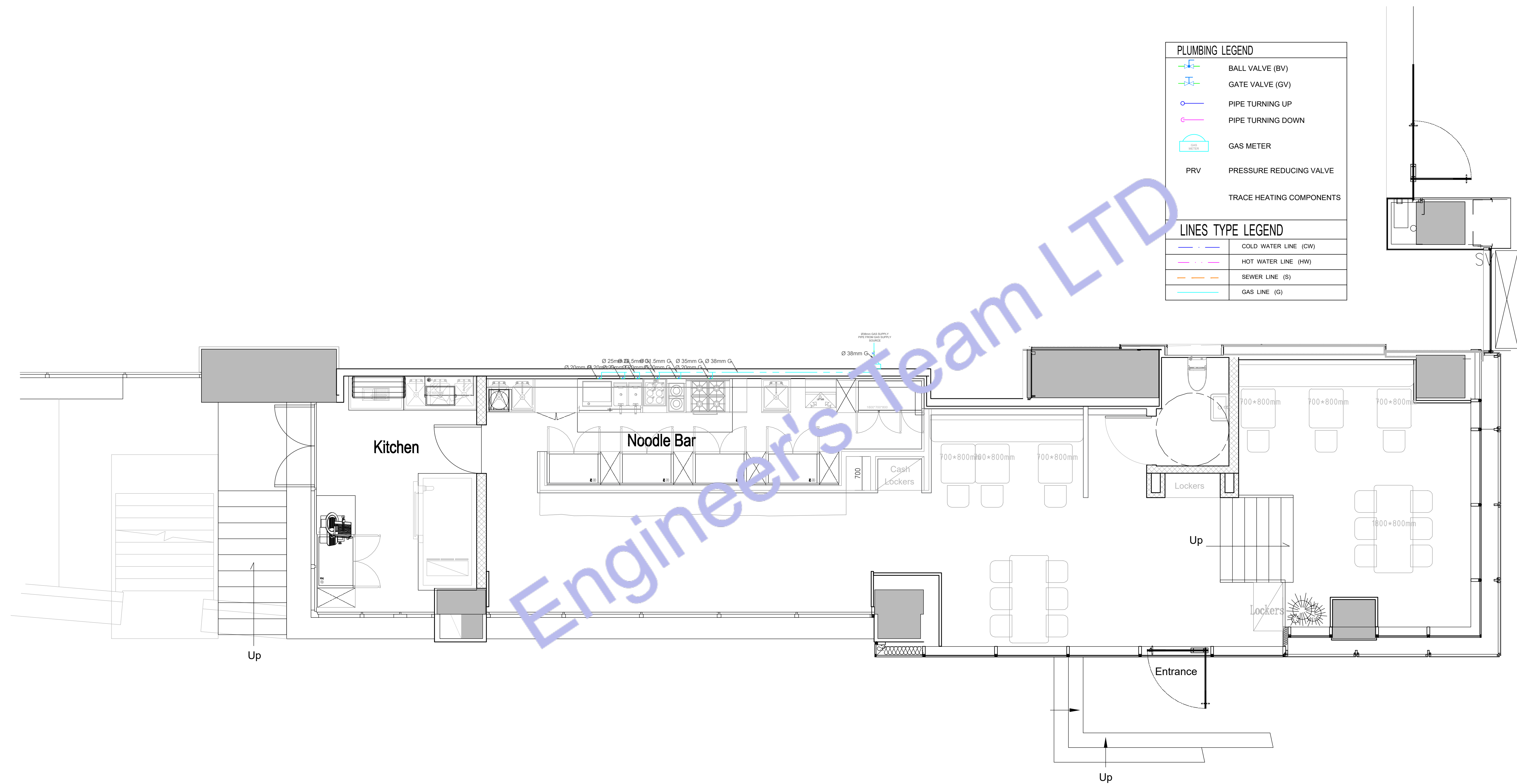
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DRAWING NO.
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REV.
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04	Change VRF system & Fix Ventilation	07/27/26	AA
05	Provide more information about the HVAC system	08/04/26	AA
05	HVAC Elevation Plan & Filtrations Specification.	08/16/26	AA

PROJECT:
25 WILBURY AVENUE

TITLE:
**PROPOSED GAS SUPPLY
PLAN**

PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: 1:100
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DATE :
September 14, 2026

DRAWING NO. M - 4	REV. 6
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Web site: www.engrteam.com
Email: support@engrteam.com

CLIENT: MR AND MRS ANDERTON

ADDRESS: 25 WILBURY AVENUE,
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SUPPORT TO THE BUILDING AND ANY ADJACENT
STRUCTURES.

REFERENCE:
0146-ETE-110CS-GF-DR-P-40502

REV. NO.	DESCRIPTION	DATE	BY
01	Add Grease Trap & update the plumbing plans	03/02/26	AA
02	Create leak detection, Gas & Fire protection etc plans	06/27/26	AA
03	Fix HVAC system and add new system	07/21/26	AA
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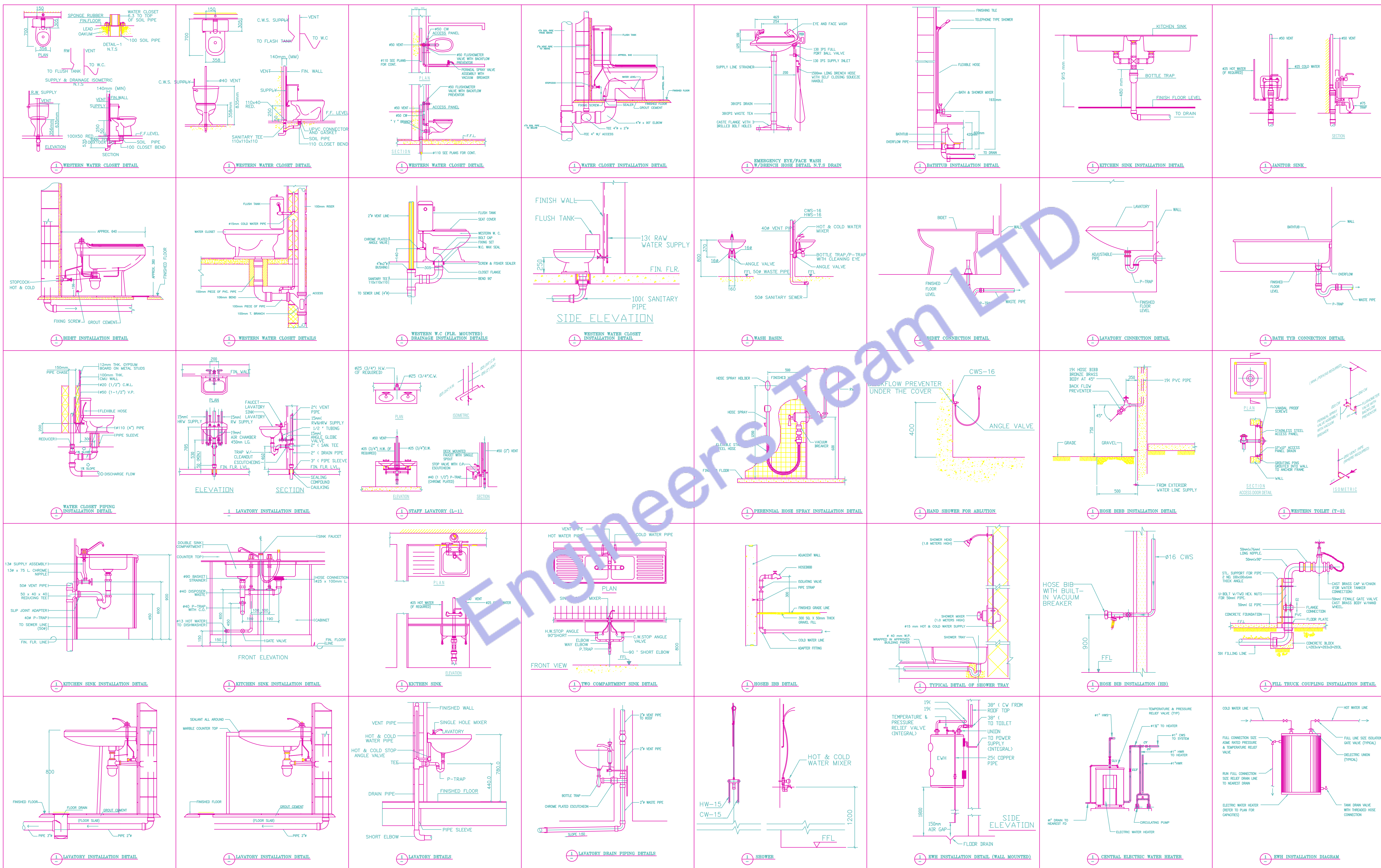
PROJECT: 25 WILBURY AVENUE

TITLE: **PLUMBING
INSTALLATION**

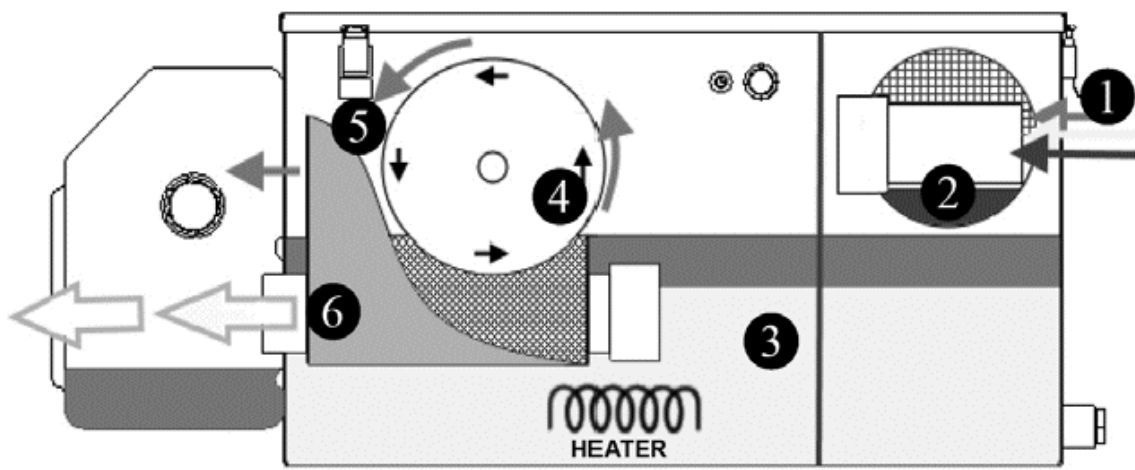
PROJ. NO. PROJ. ENGR. SCALE @ 24X36:
N/A

DATE : September 14, 2026

DRAWING NO. M - 5
REV. 6



How it Works



Rear view cutaway

- 1 Grease, solids and wastewater from the kitchen enters the Grease Guardian.
- 2 Solid food waste is caught in a removable cylindrical strainer.
- 3 A skimming cycle is set. The grease passes into the middle chamber through slots in the baffle wall where it remains trapped. With the assistance of a heater the grease rises to the surface forming a separated layer.
- 4 The liquefied grease adheres to the rotating skimming drum.
- 5 The grease passes down a scraper blade into a collection container where it can be removed and disposed hygienically.
- 6 The treated water exits under a baffle wall and through the outlet to drain.

PLUMBING And MECHANICAL INSTALLATION

lifting/Handling:

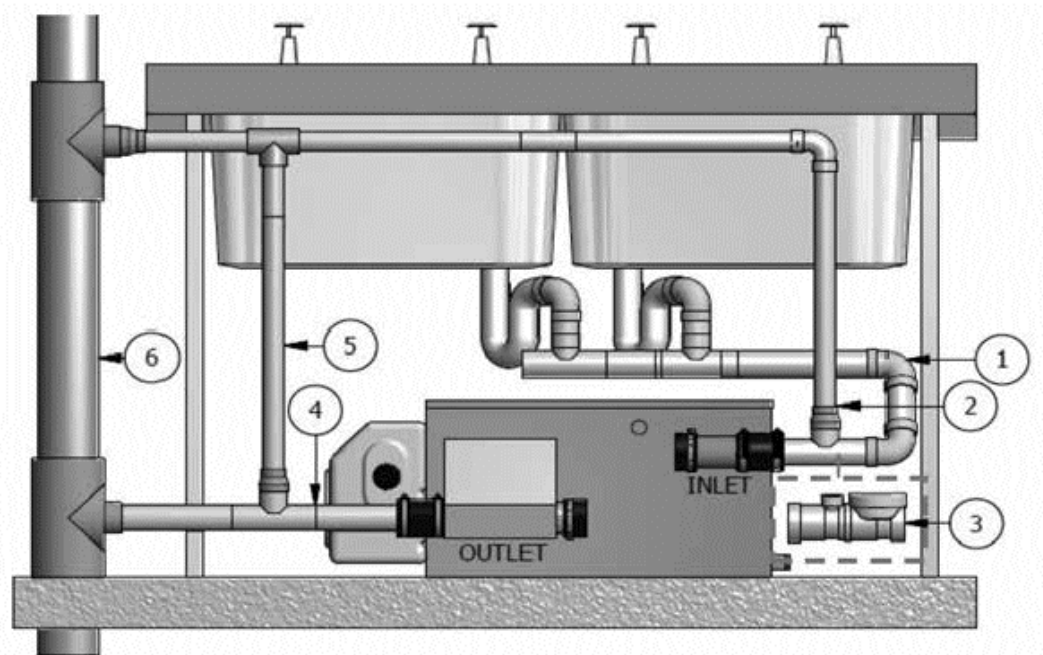
This product is classed as a heavy item that should not be handled alone. There is a requirement for 2 people to manually lift all models described in this manual. Steel tipped toe capped shoes and handling gloves should also be worn.



install these products models only at ambient room temperature, either under or adjacent to the fixtures being served. Do not repurpose the system or add to the number of fixtures specified for connection at time of sale.

Undersink example

ReAR view

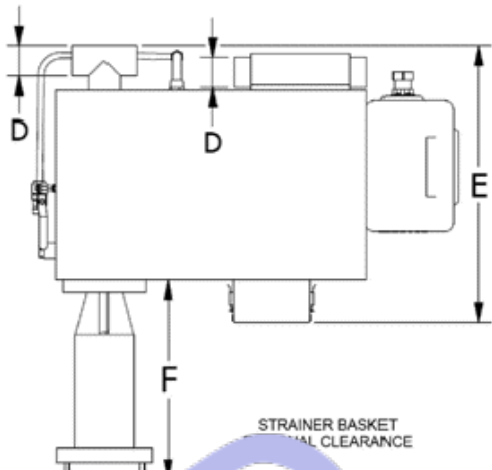


Check all required clearances in reference to the "Product Dimensions and Specification" page in this manual.

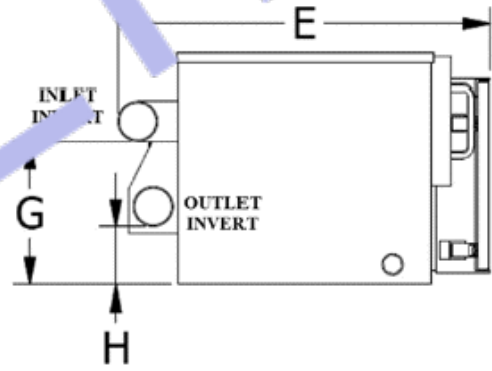
Product Dimensions & Specifications (230v AC)

Model	G & H are heights to pipe base (mm)							
	A	B	C	D	E	F	G	H
X7s	662	443	444	48	516	405	321	251
X7c	662	443	390	48	539	405	221	151
X15/15c	842	623	346	60	557	405	215	87
X25	870	657	423	60	570	405	298	170
X35	1092	873	422	89	577	405	281	170

front view



top view



side view outlet end

Model	X15				
	X7s	X7c	X15c	X25	X35
Hydraulic Flow l/second	0.5	0.5	1	1.58	2.21
Skim Rate l/hr	5	5	5	5	5
Strainer Basket vol, kg	2.99	2.99	2.99	2.99	2.99
Grease Collector vol, litres	7	7	7	7	7

Motor (all units)	25 Watt, 230VAC, 50 Hz
Heater X7 - X15	600 Watt, 230VAC, Thermal cut-out inc.
Heater x25 - x35	1000 Watt, 230VAC, Thermal cut-out inc.
controller (all units)	Logic Controller: Backlit display Inputs 230VAC Outputs 230VAC Battery back up

plumbing sequence

- 1 Plumbing work. Install 2 inch (50mm) diameter wide pipes. Ensure a slight fall is provided in all pipe-work entering unit. The Grease Guardian includes quick connect rubber couplings and blanking caps. Note that the fixtures pipe can enter the Grease Guardian inlet from left or right. (above rear view shows from right) If multiple pipes are being plumbed from opposite directions, under normal plumbing codes these must all combine to enter via one pipe via one direction only and should not be plumbed from both directions.
- 2 Ventilation Tee and branch pipe. (Recommended) to prevent odours escaping from the Grease Guardian into kitchen area. Ventilation should be terminated at the building's stack vent. If ventilation is not provided at inlet, the pump/clean out frequency of the system may have to be increased to reduce potential waste odours.
- 3 **UsA. flow control with Air intake. For those installations requiring Plumbing Drainage Institute of America compliance**, a certified flow control (with air intake) must replace the inlet ventilation Tee. The relevant control required from www.canplas.com is listed:
 - GGX7, part reference: Canplas 3922107A
 - GGX15, part reference: Canplas 3922115A
 - GGX20, part reference: Canplas 3922120A
 - GGX25, part reference: Canplas 3922125A
 - GGX35, part reference: Canplas 3933135A(The air intake riser of the flow control is to be connected to the inlet side ventilation pipe as described in point (2))
- 4 Wastewater pipework. **WARNING** To avoid reduced flow or backflows issues, the site outlet pipework must be connected as detailed below for all GGX systems.
 - pipe diameter must be minimally of 2 inch diameter (50mm)
 - pipe must be installed at a gravity fall of 1:10 minimally, but preferably 1:40.
 - pipe must contain no more than 2 x 90 degree pipe bends between Grease Guardian outlet and final waste point in floor.
- 5 Outlet vent pipe. Required to:
 - a. prevent sewer back odours entering Grease Guardian
 - b. to prevent any siphonage of the system under peak flows. The pipework should be terminated at final stack vent.
- 6 Final vent stack to atmosphere. Failure to connect ventilation points of Grease Guardian to the final stack can result in odour issues internally.



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PROJECT: 25 WILBURY AVENUE

TITLE: GREASE TRAP INSTALLATION

PROJ. NO.	PROJ. ENGR.	SCALE @ 24X36: N/A
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DATE : September 14, 2026

DRAWING NO. M - 6	REV. 6
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Designed By Engr. Al Amin (MEP Engineer | Director - Engineer's Team LTD)

 support@engrteam.com

 <https://engrteam.com>

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