

Belgrove House

PROPOSED

LANDSCAPE IRRIGATION SYSTEM

SPECIFICATION

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SAFETY Schemes in Procurement





Revision History

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TENDER DOCUMENTATION

1.0 Requirements & Outline of Works

1.1 Scope of Works

The irrigation system shall be installed wherever possible in accordance with the guidelines previously set out by the British Turf & Landscape Irrigation Association (BTLIA).

The selected Irrigation Contractor is to:-

- To supply, install, test and commission a new irrigation system as generally detailed to the site known as Belgrove House, based upon this specification, and the drawings listed within.
- The Irrigation Contractor is to ensure that they can fulfil the requirements as stated in this document; submission of tender deems this to be the case. No allowance will be made for claims due to failure to examine the enclosed specification.
- Where necessary the Irrigation Contractor shall design specific elements and acknowledge responsibility for these items e.g. solenoid valve assemblies and pump station.
- iv. The Irrigation Contractor will be required to enter into a formal written contractual agreement with the Landscaping trade contractor based upon this specification and drawings.
- v. Ensure that the irrigation system satisfies the requirements of the BREEAM Wat 04 credit and LEED requirements.

The Irrigation Contractor shall state the priced equipment manufacturers within their submission.

The Irrigation Contractor shall satisfy themselves as to the completeness of the specification / design. It shall be the Irrigation Contractors responsibility to check material volumes /









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lengths prior to submission of the tender. Submission of the tender document shall be confirmation of this.

1.2 Design Brief

Areas to be irrigated have been identified on the drawings listed within the specification.

The system has been designed to supply the following application rates:

Shrubs: at a peak application rate of approx. 4mm/mtr² per day

Trees: at a peak application rate of approx 25 – 60 ltrs/tree per day

Final run times / application rates shall be commensurate with seasonal weather.

No changes to the plan or material selection may be made unless the Irrigation Contractor has the written approval of the Designer.

1.3 General Conditions

1.3.1 Changes

No changes in either plans or specification shall be made by the Irrigation Contractor without the written approval of the Designer.

1.3.2 Additional Work

Should additional work involve additional plant / manpower not previously included, these shall be provided at an agreed rate, made in writing and accepted by the Main Contractor, prior to the commencement of the additional works.





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1.3.3 Storage

The Irrigation Contractor shall be responsible for the safe storage of all materials and for the safe handling of these materials until the completion of the project.

The Irrigation Contractor shall also be responsible for the removal / disposal of all packaging / boxing / pipe cuttings, etc. at the end of each day to the site skips unless otherwise agreed.

1.3.4 Warranty

Warranty terms shall be indicated by the Irrigation Contractor. A standard minimum of 12 months from handover will be required.

This warranty will be applicable to component failure through improper installation, faulty workmanship or general component failure due to a manufacturing defect.

The Irrigation Contractor is not liable to effect the repair if it is found that the fault is due to negligence or improper use by the Main Contractor or indeed acts of vandalism / misuse by a third party.

1.3.5 Damage

Should irrigation works be damaged by persons other than the Irrigation Contractor, then the repair shall be made by the Irrigation Contractor after agreeing a cost and obtaining an instruction in writing from the Main Contractor.

1.3.6 Other Services

The Main Contractor is responsible for the identification of all underground / above ground services.







1.3.7 Site Supervisor

Throughout the duration of the contract, the Irrigation Contractor will supply a competent supervisor as required to ensure that all aspects of the contract are handled in a professional manner.

1.3.8 Contracts Manager

Throughout the duration of the contract, the Irrigation Contractor will supply a competent contracts manager as required to oversee and liaise with the main contractor on all contract issues. The contracts manager will be required to attend regular progress meetings as necessary. The contracts manager will be expected to provide all relevant health and safety paperwork, program of works and interim payment applications.

1.3.9 Other Legislation

Local /national byelaws / codes of practice will override any section of the enclosed specification with regard to abiding by legislation and law.

1.3.10 Insurances

The Irrigation Contractor and his employees shall be covered by suitable policies including public, employers and product liability (£10 million each), contract works (min £500,000) and professional indemnity insurance (£5 million any one occurrence).

The Main Contractor or the Designer hold no responsibility for losses or damage that occur to property or persons as a result of the Irrigation Contractor's operations in carrying out the contract.

The Irrigation Contractor shall provide the Main Contractor with written evidence of all requested insurances and liability insurances. Insurance of equipment on site remains the responsibility of the Irrigation Contractor until handover.

It is the Irrigation Contractor's responsibility to indemnify against all damages received or sustained by persons as a result of undertaking the works through negligence, consequence, improper management, ground conditions, weather, neglect or defective materials.





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The Irrigation Contractor shall be liable for all costs arising out of claims or actions which may be brought against the Designer or Main Contractor by the above.

1.3.11 Validity

The tender shall be valid for a period of 60 days from the date of submission.

1.3.12 Operations & Maintenance Manuals

The Irrigation Contractor shall supply the Main Contractor with draft O & M Manuals at the time of final inspection / handover.

Final O&M manual documents shall be issued in an electronic format within 3 weeks of the date of the handover certificate.

This is in addition to all the training required by the Main Contractor to ensure a safe and understanding knowledge of the as installed irrigation system. Training shall be undertaken both prior to and after handover, until the Main Contractor is satisfied.

1.3.13 Handover / Final Inspection

Handover date shall be the date when the project is deemed to be completed to the satisfaction of the Main Contractor and Designer and all instructions for the operation and maintenance of the system have been provided.

Final system inspection will involve the proof and witness of station operation, pump operation and control system operation.

Subject to the correct operation of the system and, if necessary, subsequent repair of failures, the system shall be approved as satisfactory by the Main Contractor. The irrigation contractor shall produce a formal handover certificate for signing by the main contractor and irrigation contractor. This may be conditional upon the completion of a snag list.

Corrections / repairs to the system will be done by the Irrigation Contractor within an agreed time scale.

The supply of record drawings shall be within 3 weeks of the date on the handover certificate.









1.3.14 Marking Out / Pipe Routes

The Irrigation Contractor shall be responsible for the marking out of the system (emitter equipment and pipe positioning), unless otherwise indicated by the Main Contractor.

Pipe routing shall be generally as per irrigation plans. The Main Contractor reserves the right to change the route if required. Any changes may affect the price, if prices are affected these shall be agreed in writing prior to the work being undertaken.

It is the responsibility of the irrigation contractor to check with the designer any changes in pipe routing to ensure the hydraulic integrity of the design is not compromised.

1.3.15 Payments

The successful contractor shall agree terms with the main contractor / client.

These shall be submitted at periods to be agreed.

1.3.16 Tenders

The Main Contractor is not bound to accept the lowest price offered and reserves the right to negotiate after receipt of the offers.

1.3.17 Site Cleanliness

At all times it is the Irrigation Contractor's responsibility to ensure that the site remains clear of his debris and rubbish. He shall remove his offices, machinery, surplus materials, etc. within an agreed period following handover.

1.3.18 Programme of Works

The irrigation contractor shall liaise with the main contractor to fit in with the main program of works. It is anticipated that multiple visits will be required to carry out the installation.







2.0 Services / Requirements

2.1 Electrical Supply

The electricity supply is not the responsibility of the Irrigation Contractor. A suitable supply shall generally be provided at the proposed electrical equipment positions for connection into by the Irrigation Contractor unless otherwise agreed.

The Irrigation Contractor shall carry out all necessary electrical installations to current IEE regulations and shall be NIC EIC registered for pump installations and issue certificates certifying all works completed.

- Irrigation Booster Set Variable speed
 - Voltage 400V 3Ph 50Hz/N/E
 - o Motor Size 1.5 kW
- UV Treatment Unit
 - Voltage 240V 1Ph 50Hz
 - o 5 Amp Fused Spur
- Electronic Water Conditioner
 - Voltage 240V 1Ph 50Hz 3 Amp
- Irrigation Control System
 - Voltage 240V 1Ph 50Hz 5 Amp

2.2 Water Supply

The water supply is not the responsibility of the Irrigation Contractor. A suitable supply shall generally be provided within the plant room for connection into by the Irrigation Contractor (unless otherwise agreed).

The Mains Water Supply shall have Min flow 0.8l/s @ min pressure 1 bar, max pressure 4 bar regulated terminating within a BSP threaded isolation valve, this shall be the responsibility of others.





2.3 Drainage

A Trapped bunded floor gully in plant room for tank drain down and filtration backwash shall be provided and sized by main contractor to suit.

2.4 Plant Room

The irrigation system will require a suitable plantroom located within the basement of the development. The irrigation plantroom shall be sufficient to house the irrigation water storage tank, irrigation pumpset and associated equipment.

The plant room shall be no less than 3.5m x 3m with a height of no less than 2.5m.

Lighting, ventilation, fire alarms systems etc. are by others.

All builders' works within the plant room shall be by the main contractor.

All fire stopping within the plant room shall be by the main contractor.

2.5 LAN Connection

The LAN connection is not the responsibility of the Irrigation Contractor. A suitable connection shall be provided at the proposed irrigation controller position for connection into by the Irrigation Contractor unless otherwise agreed.

The irrigation system requires a RJ-45 port with a LAN network connection and a static IP address.

2.6 Testing / Commissioning

It shall be the Irrigation Contractor's responsibility to test and commission the system as work progresses. The provision of equipment necessary to test the system is the responsibility of the Irrigation Contractor.

Pressure testing shall be carried out after backfilling / installation; sections of the mains / lateral pipework; pipe will be tested for leaks and static pressure loss.







Drip emitters and valves shall be operated for at least 10 minutes during the testing period to ensure correct positioning, pressure continuity and operating pressure. The Main Contractor reserves the right to randomly check the pressures prior to acceptance.

Any repairs or leaks shall be made good by the Irrigation Contractor at his expense prior to handover.

2.7 Internal Pipework and Signal Cable

Pipework and signal cable within the building – from the irrigation plant room to the connection points location to each planted area is the responsibility of others.

Two separate supplies leave the irrigation plant room -

- Supply 1 Feeds to levels 6-9 façade planting (Fertiliser dosed supply)
- Supply 2 Feeds to levels 1,2,3,4,5 and 10

Internal pipework sizes shall be confirmed by the irrigation consultant based on their final flow rates. This pipework is not expected to be greater than 35mm.

The signal cable shall generally follow the path of the pipework and shall consist of a 2 core 2.5mm screened cable.





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3.0 Material Specification

The Irrigation Contractor shall supply and install all materials necessary, as well as all necessary sundry materials required for the full installation of the system.

All materials used by the Irrigation Contractor shall be new, unused and in line with the below specification. The landscape trade contractor shall have the right to inspect the materials used at any time.

Substitution of any parts specified within the material specification is not permitted, unless in written agreement with the landscape trade contractor or Designer. It is the Irrigation Contractor's responsibility to include all necessary sundry fittings and to check all material quantities.

Should the Irrigation Contractor at any time have failed to meet the requirements set out by the Designer, he shall either re-install the equipment or replace and re-install the equipment at his own cost. This includes improper drip line staking and sprinkler spacing.

The Irrigation Contractor shall make available his work for regular inspection. The passing of the work by the principle Contractor, or the Designer shall not be acceptance of the standards.

The Designer does not accept liability for faulty installation / poor workmanship on behalf of the Irrigation Contractor.

Any work that fails to meet an acceptable standard within the installation warranty period will be re-done.

3.1 Water Storage Tank

Water for the proposed irrigation system shall be stored within a 3,000 litre externally flanged water storage tank approx. 2m x 1m x 1.5m located within the irrigation plant room.

The Irrigation Contractor shall include all necessary sundry fittings to allow infill of tank from mains water supply and for suction from the tank via the pump station (the Irrigation Contractor shall include all necessary drawings).

The Irrigation Contractor shall ensure the tank complies with water regulations and includes an AB air gap arrangement and spill over weir.







Water storage tank steels, base works and tank erection shall be by the Irrigation Contractor and be exactly as per manufacturer's instructions including if / where necessary bylaws and codes of practice.

3.2 Water Level Sensing Equipment

Selected level indication / measurement equipment shall be suitable for the type of tank and water quality. The Irrigation Contractor should ensure that the equipment does not interfere or inhibit any associated or localised other system.

Main water supply shall be controlled via level probes installed within the tank by the irrigation contractor.

In all cases the Irrigation Contractor shall ensure that all equipment and installation techniques are in compliance with all relevant local & national standards / codes of practice and within the manufacturers recommended tolerances / specifications for usage / material.

3.3 Pumping Station

The pump station shall feature a vertical multistage centrifugal pump controlled by variable frequency drive.

The station shall be built by a specialist pump station manufacturer. All necessary items to effect a complete and operational pumping station shall be included -

- A vertical inline WRAS approved hydraulic accumulator
- Pressure transducer connection
- Drain valve.
- A Control Panel fully wired and tested in full compliance with the latest edition of the wiring regulations
- Storage tank high and low level monitoring facility
- Outputs to connect to the building management control system (BMS).
- All of the pump equipment will be mounted on a pre-fabricated folded steel base plate complete with anti-vibration mountings.

This element of the works is Contractor design specific; the pumping station shall have an operating flow of 1.5^3 /hr at 85 metres pressure (To be checked by contractor). The pumping unit shall be manufactured by Grundfos or equal.







The design of the pumping station and its associated pipework to meet the specification is the responsibility of the Irrigation Contractor.

The pumping unit shall be designed to provide a constant pressure, whilst dealing with variable flow demands down to approximately 0.12m³/hr.

It is the Irrigation Contractor's responsibility to ensure that all necessary ancillary equipment required in order to ensure the correct operation of the pumping station is provided (communication cable, motor cables, operations manuals, service schedules, etc).

The Irrigation Contractor shall also supply full technical data of the proposed pumping station within his tender submission including -

- Pump duty performance curves.
- Manufacturer
- Pump Type & Motor Size and Number of Pumps
- Station Duty (Flow /mtrs Pressure)
- NPSH Calculations
- Motor Full Load Current
- Combined Start Up Loading

3.4 Suction and Delivery Manifolds

Suction and delivery manifolds shall be manufactured from UPVC or other approved material. Suction manifold velocity shall not exceed 1.5 mtrs/second; suction discharge manifold velocity shall not exceed 1.5 mtrs/second.

The suction and delivery manifolds should include as standard the following items:

- The suction manifold shall include
 - o Tank Isolation Valve
- The delivery manifold shall include
 - o Pump Isolation Valve
 - o Debris Filter See Specification item 3.5
 - o Electronic Water Conditioner See Specification item 3.5
 - o Ultra-violet Treatment unit See Specification item 3.5









- Pressure Relief Valve Set At Approximately ½ Bar (5mtrs) Above The Working Pressure Complete With Pipework Back To Water Storage Tank
- Hydraulic accumulator.
- Pulse Water Meter.
- Two Legs of supply pipework leave the plant room
 - Supply 1 Feeds to levels 6-9 façade planting (Fertiliser dosed supply)
 - Supply 2 Feeds to levels 1,2,3,4,5 and 10
- Fertiliser Dosing System on Supply 1 only.

The Irrigation Contractor shall provide a layout of his proposed pumping arrangement with his tender submission.

3.5 Water Treatment / Filtration

The irrigation contractor shall provide suitable water filtration for the system as follows -

- 1 no. Inline Debris interception filters on the discharge manifold, installed in a step down method, the first filtering to 200 microns, the second filtering to 100 microns.
- Electronic water conditioner system sized to suit the service flow of the system. The unit uses pre-programmed micro-chips to transmit pulses of electrical charge into the water at varying frequencies and amplitudes. These "signals" cause some of the salts in the water to form sub-microscopic clusters. The clusters act as nucleation seeds upon which the calcium carbonate (limescale) precipitates. Instead of the hard encrustation on pipes and heating elements that normally occurs the precipitation takes the form of tiny calcium carbonate crystals that float suspended in the water. These invisible fine crystals are carried away with the flowing water.
- Ultra Violet treatment system sized to suit the service flow of the system complete with a bypass facility. The unit will include a Unit controller either mounted on the unit or on the wall nearby. The UV Reactor will be made from stainless steel 316 L and can be mounted horizontally or vertically. The unit will include a low pressure high intensity Spektrotherm UV Lamp with amalgam indium-dotation, high UV–C output. The UV lamp and quartz sleeve assembly will be easily removable from one end of the reactor.
- Suitable fertiliser dosing system comprising of a Dosatron unit or equal sized to suit the outgoing flows and pressure. A dosing tank and suitabily sized bund should also be installed. Final dosing/application arrangement and N, P, K values etc. should not be part of the irrigation designers or irrigation contractors package. We suggest that all elements associated with fertigation are overseen by an agronomist; the application of fertiliser through an irrigation system must be carefully balanced with the plant growth stages and maturity. Fertilisers must also be correctly selected to avoid emitter blockage and steel structure corrosion.





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3.6 Mainline and Lateral Distribution Pipelines

3.6.1 UPVC Pipework

All pipework within the plant room and basement areas of the development shall be supplied as uPVC pipework. The uPVC pipework and fittings shall be rated as class E, while uPVC fitting shall have a maximum pressure rating of 16 Bar. The UPVC pipe dimensions and working pressures are to BS EN 1452.

The mainline UPVC pipework shall be supported by a Hilti pipe support system with all necessary fittings where appropriate.

Pipelines shall be jointed by either glued or screwed fittings.

In all cases, the pipe jointing / installation method must be carried out strictly in accordance with relevant code of practice and manufacturers recommendations for that particular piping product.

All joints shall be made utilising the correct jointing products and techniques; adequate ventilation shall be provided at all times by the Irrigation Contractor.

Other acceptable pipe products shall be copper / stainless steel used in discharge manifolds and at penetration points; all pipe joints shall be either screwed or flanged in these instances.

The UPVC characteristics of excellent chemical resistance, durability, smooth bore, good abrasion resistance, good thermal and electric insulation, lightness, non-toxic and ease of jointing have secured Unplasticised Polyvinyl Chloride as the most widely used of all plastics for pipe installations. UPVC is suitable for use at temperatures from 0°C to 60°C.

NOTE: All pipework and signal cable from the plant room to the landscaped areas requiring irrigation are the responsibility of others. There are two feeds out of the plant room to the landscaped areas as detailed in section 3.4 above.

3.6.2 PE Pipework

All pipework within the landscaped area of the development shall be supplied as black Polyethylene pipe work to BSEN12201 complete with 4 green stripes and labelled appropriately.







All standards regarding polyethylene pipe shall be in accordance with the latest WRAS code of practice.

Pipelines shall be jointed by either compression or electrofusion fittings. Saddle clamps or grommet type connectors **shall not** be used for mainline or lateral pipes. Standards applicable to pipe are:-

• BSEN12201 for PE pipes

Where couplers other than compression or electrofusion are utilised, i.e. flanges, they will be manufactured to the relevant national standard.

In all cases, the pipe jointing / installation method must be carried out strictly in accordance with relevant code of practice and manufacturers recommendations for that particular piping product. Under no circumstances shall the pipe exceed manufacturer's recommendations for curvature or be bent / re-heated by the Irrigation Contractor during installation.

Other acceptable pipe products shall be copper / stainless steel used in discharge manifolds and at planter entry points; all pipe joints shall be either screwed or flanged in these instances.

Where trenches are required these shall be provided by the main / landscape contractor.

Pipelines installed into trench lines will be placed only onto level bases and free of sharp, irregularly shaped objects.

After installation of the pipeline and associated pipe joints, backfilling shall take place. Backfilling shall initially be undertaken by hand and then mechanically if by approved methods. Backfill shall be compacted to achieve a firm finish that minimises settlement. Backfilling around pipe joints / valves and other reasonably delicate products shall be done with care to avoid undue material stress.

The irrigation contractor is to oversee the backfilling of trenches, backfilling will be with a suitable friable material, free of large stones, sharp objects and frozen lumps.

Any excavation works shall be undertaken with prevalent Health & Safety standards in operation. All trench lines shall be marked and taped to, as far as is practicable, minimise any risk to Health & Safety.

Mainline trenchlines will generally be 100mm wider than the outside diameter of the pipe (50mm clearance either side). Trenchlines shall be deep enough to ensure 600mm cover from the top of the pipe radius to finished ground level (subject to soil levels).









Lateral pipelines shall be installed to a depth of approximately 400mm from finished ground level to the top of the pipe radius and shall be undertaken to the same installation specification as mainline pipeline installation.

Any existing services shall be crossed with due care and diligence according to any / all local bylaws and the principle Contractor clearance prior to work.

Due to the nature of the project and restrictions to depth of available soil, installation depths shall vary across the site, main line and lateral pipelines shall be installed to a depth to allow suitable installation of irrigation equipment.

The Irrigation Contractor shall flush the installed irrigation pipe system at regular available opportunities. It is the Irrigation Contractor's responsibility to ensure that all pipelines, valves and drip embittering equipment is free from debris.

Any equipment that fails due to blockage shall be replaced by the Irrigation Contractor at his cost.

3.7 Planter Entry Points / Slab Penetrations

Required pipe and signal cable entry points into planters or through slab / structures shall be provided by the irrigation Contractor unless otherwise noted. These penetration fittings shall be manufactured in stainless steel and shall be manufactured to suit the slab thickness specifically for this project. It is the Irrigation Contractors responsibility to liaise with the landscape trade contractor / principle contractor regarding final entry point positions.

All planter / entry slab core holes shall be undertaken by the principle Contractor. The Irrigation Contractor shall install the pipeline within these access points using approved products and construction techniques. Subsequent water proofing is to be provided by the landscape trade contractor.

3.8 Hard Paved Areas / Road Crossings / Draw Pits

Areas such as paving between planters shall be ducted; ducts and draw pits will be provided for irrigation services by the landscape trade contractor. The Irrigation Contractor is responsible for liaising with the landscape trade contractor with regard to final positions and sizes.







3.9 Isolating Valves

Isolation valves used for the pipelines shall have a minimum pressure rating of 16 bar and be suitable for direct burial, offering a watertight seal at 16 bar pressure.

Valves of 2" or smaller shall be ball valves, either threaded or flanged in connection.

Access to all system isolation valves shall be by a valve chamber. The chamber will be large enough to provide unhindered access to the valve. All chambers will be supported to prevent damage to the irrigation pipe / cable.

All chambers will have a textile membrane installed within the base, complete with a 50mm layer of pea gravel (or equal) above the membrane. All valve chambers will be installed at approximately 20mm below finished ground level and located on stable level ground.

The irrigation Contractor is, unless otherwise directed, responsible for the final valve box positions.

3.10 Drain Valves

Drain valves shall be generally ¾" in size and as per general valve description enclosed. Valves shall be manually operated and shall drain to an agreed point; point of drainage to be agreed with structural engineer.

Access to all system drain values shall be by a value chamber. The chamber will be large enough to provide unhindered access to the value. All chambers will be supported to prevent damage to the irrigation pipe / cable.

All chambers will have a textile membrane installed within the base, complete with a 50mm layer of pea gravel (or equal) above the membrane. All valve chambers will be installed at approximately 20mm below finished ground level and located on stable level ground.

The irrigation Contractor is, unless otherwise directed, responsible for the final valve box positions.

3.11 Solenoid Valve Assemblies

Where required and indicated, the system will utilise ¾" or 1" automatic solenoid operated 24 volt, normally closed electric valves, these shall be plastic in manufacture with a BSP thread featuring manual bypass and manual operation. Solenoid Valves shall be manufactured by Rain Bird.







Solenoid valves shall be incorporated into an irrigation valve chamber. The Irrigation Contractor may choose to place a maximum of 3 No. valves in one large chamber.

All chambers will have a textile membrane installed within the base, complete with a 50mm layer of pea gravel (or equal) above the membrane. All valve chambers will be installed at approximately 20mm below finished ground level and located on stable level ground.

The assembly shall include a valve isolation valve (same bore as solenoid valve), inline filter and pressure regulation, if applicable.

The assembly shall be constructed of PE or PVC pipework or an approved equal that is not affected by water treatment regimes, connections into and out of the assembly will be jointed onto pipelines by either electrofusion or compression fittings.

The irrigation Contractor is, unless otherwise directed, responsible for the final valve box positions.

3.12 Irrigation Products

3.12.1 Shrub Irrigation

Pressure compensating drip line shall be provided for areas of ground cover shrubs / shrub planting and hedges. The drip line emitters shall be pressure compensating, and self-flushing in operation, spaced at approximately 33cm intervals at a flow each of approximately 2.3 litres per hour. The drip pipework shall be manufactured by Rain Bird.

Row spacing shall be even and not exceed emitter spacing.

The dripline shall be of low density polyethylene and the emitters pre-inserted. Outside diameter shall be approximately 17mm, internal diameter approximately 13.6mm, manufactured by Rain Bird or an approved equal.

Drip lines shall be jointed by compression, barbed or screwed fittings as approved by the manufacturer.

Drip lines shall be installed as per manufacturer's recommendations with regular flushing during installation to remove debris. Run lengths shall not exceed the maximum stated by the manufacturer.

Drip lines shall be laid into place on the soil and staked prior to mulching. Drip line shall be held in place at approximately 1.0 metre to 2.0 metre intervals, generally as per











manufacturer's instructions. Stakes shall be designed to be robust in use and longevity, preferably purpose built plastic stakes such as Rain Bird C-12 or approved equal.

Drip lines shall be installed in a grid fashion to ensure even pressure is delivered to emitters throughout.

Drip lines will be fed from a lateral feed pipe generally installed feeding into the centre of the drip grid.

Drip lines shall be tested visibly prior to mulching to ensure satisfactory operation. Kinked or damaged pipe shall not be installed or re-used by the Irrigation Contractor.

The principle Contractor reserves the right to check spacings of driplines and if applicable instruct the Irrigation Contractor to re-install these correctly.

3.12.2 Tree Irrigation

Tree irrigation shall be installed after tree installation and before final mulching.

Lateral pipework shall terminate at the base of each tree and be connected to a 16mm LDPE necklace of pipe surrounding the tree trunk. Emitters shall be installed within the tree necklace at even spacing.

Trees shall be irrigated by pressure compensating 'push' in emitters with an output of approximately 7.6 litres per hour. These shall be of a self-piercing type, inserted in 16mm polyethylene distribution tubing (minimum pressure rating of tubing shall be 6.0 bar).

Each tree shall have 8 No. emitters spaced equally around the rootball (depending upon tree size).

Only compression, barbed or screwed fittings approved by the manufacturer shall be used.

Emitters and tubing shall be manufactured by Rain Bird or approved equal.

Tree drip emitters are specified as Rain Bird XB20PC pressure compensating units with a flow of 7.6 ltrs/hr each or approved equal.

The Irrigation Contractor shall ensure that the final spacing shall water the soil area effectively, reaching the root zone of each tree.

The necklace shall be flushed prior to final connection.







The principle Contractor reserves the right to check the spacing and number of emitters fitted and if applicable, to instruct the Irrigation Contractor to re-install the necklace and emitters.

3.13 Control System

The selected control system shall be an ESPLX-IVM decoder-based system manufactured by Rain Bird or approved equal.

This will control the solenoid valve operation via a twin core 2.5mm² low voltage signal cable. All joints will be made using DBR-Y water resistant/ waterproof connectors.

Features:

- The ESPLX-IVM can manage up to 60 stations & up to 4 weather sensors.
- The ESPLX-IVM can run up to 8 stations simultaneously.
- Flow management has been built into every ESPLX-IVM.
- Supports Rain Bird IVM Solenoid Coil Module & Rain Bird IVM Surge Protector.
- Four sensor inputs with override switch.
- Station timing: 0 min to 96 hrs.
- Program level and global monthly seasonal adjust, 0% to 300% (96hrs max. station run time)
- 8 start times per program.
- Program day cycles include custom days of the week, odd, odd no 31st, even and cyclical dates.
- Remote water management using the IQ4 platform.

The contractor shall include within the control system a rain switch, which will be located in a suitable position, cabled as per manufacturer's instructions.

The rain switch shall be mounted on a stainless steel mounting poles concealing all cables, these shall be provided by the irrigation contractor.

Programming and testing of the control system / rain sensor shall be the responsibility of the Irrigation Contractor. The Irrigation Contractor shall be responsible for calculating run times, hydraulic optimisation and flow branch allocation.

The Irrigation Contractor shall also supply the necessary number of decoders – as per specification. Decoders shall be fully compatible with the central controllers and installed with the central control systems exactly as per manufacturer's recommendations.

The Irrigation Contractor must include earthing and surge protection as per manufacturer's minimum recommendations ensuring that the systems are adequately earthed.









3.14 Rain Bird Communication Module

The irrigation contractor shall supply and install a communication module linked to the irrigation controller.

The module shall provide the following features -

- Remote control / management of the irrigation system.
- Automated Email Alarm/Warning and Satellite Station Run Time Reports
- Detailed logs and reports
- Manual Program, Test Program, Station starts
- Automated or user initiated satellite Synchronize & Retrieve Logs and Weather Source Retrieve Weather Data communication
- Monitor system performance and identify problems
- IQ Global Weather Internet Service which provides local weather data including rain fall.

To fully enable the above features the irrigation contractor shall also install a flow sensor and master valve.

All control system equipment shall be installed exactly as per manufacturer's requirements and as per any relevant national codes of practice and byelaws, particularly electrical.

3.15 Decoders

The selected decoders shall be ESPLX-IVM Solenoid Modules supplied by Rain Bird or approved equal.

Decoders shall be fully compatible with the central controller and installed with the central control system exactly as per manufacturer's recommendations.

3.16 Signal Cable

All signal cable shall be suitable for direct underground burial where used in landscaped area and manufactured by Rain Bird.

The solid bare 2.5mm copper cable shall be insulated with a 0.7mm polyethylene sleeve (black and blue cores) and protected with an outer polyethylene sheath to protect the cable from damage during installation and to prolong life.







Cables between decoders and solenoids will only be 2-core in configuration; all signal cable under hard landscaped areas shall be ducted.

The Irrigation Contractor shall also ensure that the control system in operation does not conflict with any other electrical services.

The signal cable will be a minimum of 2.5mm² and conform to CEI 60502-1 (this includes both mainline and cable from decoder to the solenoid valve). The cable shall be approved for use by the control system manufacturer.

All cables will be UV resistant and have a temperature operating range suitable for the climate. Signal cables will be jointed using grease filled joints such as DBR-Y connectors.

Signal cable shall be installed or clipped in such a manner that ensures that it is not stretched / scraped / damaged / laid down under tension. The cable will be laid and supported throughout its length. All cable joints will be made ensuring that at least one metre of cable is slack.

Cables shall not be installed in the formation of a continuous circuit at any point. Signal cables shall be installed by the Irrigation Contractor in a cable tray / duct from the pump room to the rising main connection point.

From this point cable shall be installed as required to solenoid valve positions.





SAFETY SCHEMES IN PROCUREMENT



4.0 Health & Safety Requirements

The Irrigation Contractor will be responsible to fulfill his required duties with regards to health & safety.

The Irrigation Contractor shall not commence any site works until his method statements, risk assessments and COSHH assessments have been issued and approved by the main contractor.

4.1 Health & Safety Overview

The Irrigation Contractor must ensure that his obligations under all relevant national Health & Safety laws have been met prior to commencement of works. This includes all risk assessments, method statements, COSHH assessments, and operator training.

The main contractor may issue additional requirements not detailed within this specification which will have to be adhered to.

The Irrigation Contractor will be responsible to fulfill his required duties.

4.2 Method Statement and Risk Assessments

The Irrigation Contractor shall be expected to provide all method statements and risk assessments for the proposed works.

The Irrigation Contractor shall not commence any site works until his method statements, risk assessments and COSHH assessments have been issued and approved by the main contractor.

4.3 Fire

The Irrigation Contractor shall aim to minimise all risk of fire and shall take the necessary action if fire is discovered.







If hot works is required the irrigation contractor must apply for the relevant permits to work from the main contractor prior to commencing work. The contractor shall have suitable insurance to cover the hot works.

4.4 Traffic & Machinery Movement

The Irrigation Contractor is responsible for all traffic associated with the irrigation contract and must ensure that appropriate Health & Safety measures are in place to control the traffic safely and without danger to the public.

4.5 Health & Safety Information

The Irrigation Contractor must under his obligations with the CDM Regulations; provide Health & Safety information prior to the commencement of the project.

The above elements are subject to contract working standards issued by the Main Contractor.

4.6 Designers Risk Assessment

Provided within appendix A is the design risk assessment undertaken by the Designer in accordance with the CDM regulations.

All suppliers, contractors and designers appointed by the Main Contractor shall undertake their own CDM regulation obligations which include liaising with designers, Main Contractors, and planning supervisor with relevance to all Health & Safety matters, and with this in mind the Main Contractor shall ensure that all his suppliers and sub-contractors comply with this requirement.





SAFETY SCHEMES IN PROCUREMENT



Appendix A – Risk Overview

DESIGN RISK OVERVIEW

The irrigation design at Belgrove House is based upon the current standards within the landscape irrigation industry and the minimum standards laid down by the British Turf and Landscape Irrigation Association.

Risk overview has been undertaken by the designer. Significant residual hazards which cannot be reasonably designed out are noted and included within this document.

However, the enclosed does not claim to cover every site risk. Contractors must point out in their tender submission other hazards that they believe cannot be controlled during installation and therefore require design review.

Hazard Type	Risk	Personnel At Risk	Action To Control Risk
Machinery movement on site	Medium	Irrigation Contractor Other Contractors	Irrigation Contractor to undertake risk assessment and issue method statement, machinery movement routing and program of works. Warning signage for footpaths. Erection of barriers within vicinity of footpaths.
Installation of irrigation materials; pipelines, control cables, valves	Medium	Irrigation Contractor Other Contractors	Irrigation Contractor to undertake risk assessment and issue method statement, and adherence to method statement. Use of marking tape and signage where applicable. Issue detailed program of works and undertake search of services within area of work.
High water pressure in pumping station, underground pipeline	Medium	Irrigation Contractor Other Contractors Maintenance Staff	Ensure high pressure main is isolated and residual pressure removed before attempting service work. Ensure all operatives have received relevant training regarding product operation. Specification of products that are designed for use within the stated system operating pressure.





SAFETY SCHEMES IN PROCUREMENT



APPROVED CONTRACTOR

Hazard Type	Risk	Personnel At Risk	Action To Control Risk
Electricity within pump room	Medium	Irrigation Contractor Other Contractors Maintenance Staff	Isolation of electrical supply at pump to prevent electrocution risk if working within pump area. Only authorised and qualified operatives to use and maintain equipment. Lockable pump house doors.
Installation of pipework through slab into planters and clipping of pipework / signal cable	Medium	Irrigation Contractor Other Contractors	Irrigation Contractor to undertake risk assessment. Use of proper access equipment – scaffolding tower. Issue of method statement and proof of scaffolding license if required.
Ground conditions - Slippery Surfaces	Medium	Irrigation Contractors Machinery Operatives	Irrigation Contractor to undertake risk assessment and issue method statement for work in associated risk areas.
Excavations - Spoil heaps, trench line collapse, trespassers	Medium	Irrigation Contractors Machinery Operatives M & E Engineers	Irrigation Contractor to undertake risk assessment and issue method statement for associated works.
Small electrical equipment and compressed air tools	Medium	Irrigation Contractors M & E Engineers	Irrigation Contractor to undertake risk assessment and issue method statement; to include daily maintenance regime if applicable. Wearing of PPE.
Legionnaires disease, associated risk of disease in stored water	Medium	Main Contractor M & E Engineers End User	Water to be regularly tested by Client after handover as part of operating risk assessment and further treatment may be required.





SAFETY SCHEMES IN PROCUREMENT



Appendix B – Valve Schedule





SAFETY SCHEMES IN PROCUREMENT





Project: Belgrove House Ref: Q3209 R1 Date: 24/11/22 Dwg Ref: WSL3209-01-10



Station Type	Station Type Quantity		Estimated Water Usage (Itr)	
Drip Pipework Trees	2273 Metres 4 No.	509 89	3443.94 180.00	
Total		598 Hrs Mins 9 58	3623.94	

Project: Belgrove House Ref: Q3209 R1 Date: 24/11/22 Dwg Ref: WSL3209-01-10



Drip Station Flows, Runtimes and Water Usage

33 cm Spaced Emitters 2.3 l/h

Valve	Length of	No. of Emitters	Flow m³/h	Daily App.	Run Time	Water Usage	Level
Station No.	Dripline (m)	(33cm Spacing)		Rate mm	(mins)	(Ltr)	
D1	18	55	0.13	4	13.0	27	Level 1
D2	44	133	0.31	4	13.0	67	Level 1
D3	18	55	0.13	4	13.0	27	Level 1
D4	18	55	0.13	4	13.0	27	Level 2
D5	44	133	0.31	4	13.0	67	Level 2
D6	18	55	0.13	4	13.0	27	Level 2
D7	18	55	0.13	4	13.0	27	Level 3
D8	44	133	0.31	4	13.0	67	Level 3
D9	18	55	0.13	4	13.0	27	Level 3
D10	176	533	1.23	4	13.0	267	Level 4
D11	88	267	0.61	4	13.0	133	Level 4
D12	176	533	1.23	4	13.0	267	Level 4
D13	182	552	1.27	4	13.0	276	Level 4
D14	155	470	1.08	4	13.0	235	Level 4
D15	182	552	1.27	4	13.0	276	Level 4
D16	152	461	1.06	4	13.0	230	Level 5
D17	152	461	1.06	4	13.0	230	Level 5
D18	152	461	1.06	4	13.0	230	Level 5
D19	152	461	1.06	4	13.0	230	Level 5

Level	Water Usage	Run Time	Daily App.	Flow m³/h	No. of Emitters	Length of	Valve
	(Ltr)	(mins)	Rate mm		(33cm Spacing)	Dripline (m)	Station No.
Level 6	15	13.0	4	0.07	30	10	D22
Level 6	42	13.0	4	0.20	85	28	D23
Level 6	18	13.0	4	0.08	36	12	D24
Level 6	42	13.0	4	0.20	85	28	D25
Level 7	15	13.0	4	0.07	30	10	D26
Level 7	42	13.0	4	0.20	85	28	D27
Level 7	18	13.0	4	0.08	36	12	D28
Level 7	42	13.0	4	0.20	85	28	D29
Level 8	15	13.0	4	0.07	30	10	D30
Level 8	42	13.0	4	0.20	85	28	D31
Level 8	18	13.0	4	0.08	36	12	D32
Level 8	42	13.0	4	0.20	85	28	D33
Level 9	15	13.0	4	0.07	30	10	D34
Level 9	42	13.0	4	0.20	85	28	D35
Level 9	18	13.0	4	0.08	36	12	D36
Level 9	42	13.0	4	0.20	85	28	D37
Level 10	27	13.0	4	0.13	55	18	D38
Level 10	82	13.0	4	0.38	164	54	D39
Level 10	42	13.0	4	0.20	85	28	D40
Level 1	82	13.0	4	0.38	164	54	D41
1	3444	508.7				2273	TOTALS

Project: Belgrove House Ref: Q3209 R1 Date: 24/11/22 Dwg Ref: WSL3209-01-10



Tree Drip Flows, Runtimes and Water Usage 8 Spaced Emitters

Valve	No. Trees	No. Emitters	Total No.	Emitter Flow LPH	Total Valve	Total Flow to	Daily App.	Run Time	Water Usage	Level
Station No.		per Tree	Emitters	Ltr/hr	Flow (m³/hr)	Each Tree Ltr/min	Rate Ltr	(mins)	(Ltr)	
TD20	2	8.00	16.00	7.60	0.12	1.01	45.00	44	90	Level 5
TD21	2	8.00	16.00	7.60	0.12	1.01	45.00	44	90	Level 5
	4		32					89	180.00	

Appendix C – Drawings

Reference Drawings -

Irrigation Layout Level 2	WSL3209-02
Irrigation Layout Level 3	WSL3209-03
Irrigation Layout Level 4	WSL3209-04
Irrigation Layout Level 5	WSL3209-05
Irrigation Layout Level 6	WSL3209-06
Irrigation Layout Level 7	WSL3209-07
Irrigation Layout Level 8	WSL3209-08
Irrigation Layout Level 9	WSL3209-09
Irrigation Layout Level 10	WSL3209-10
Irrigation Plant Room Layout	WSL3209-11

Example Drawings -

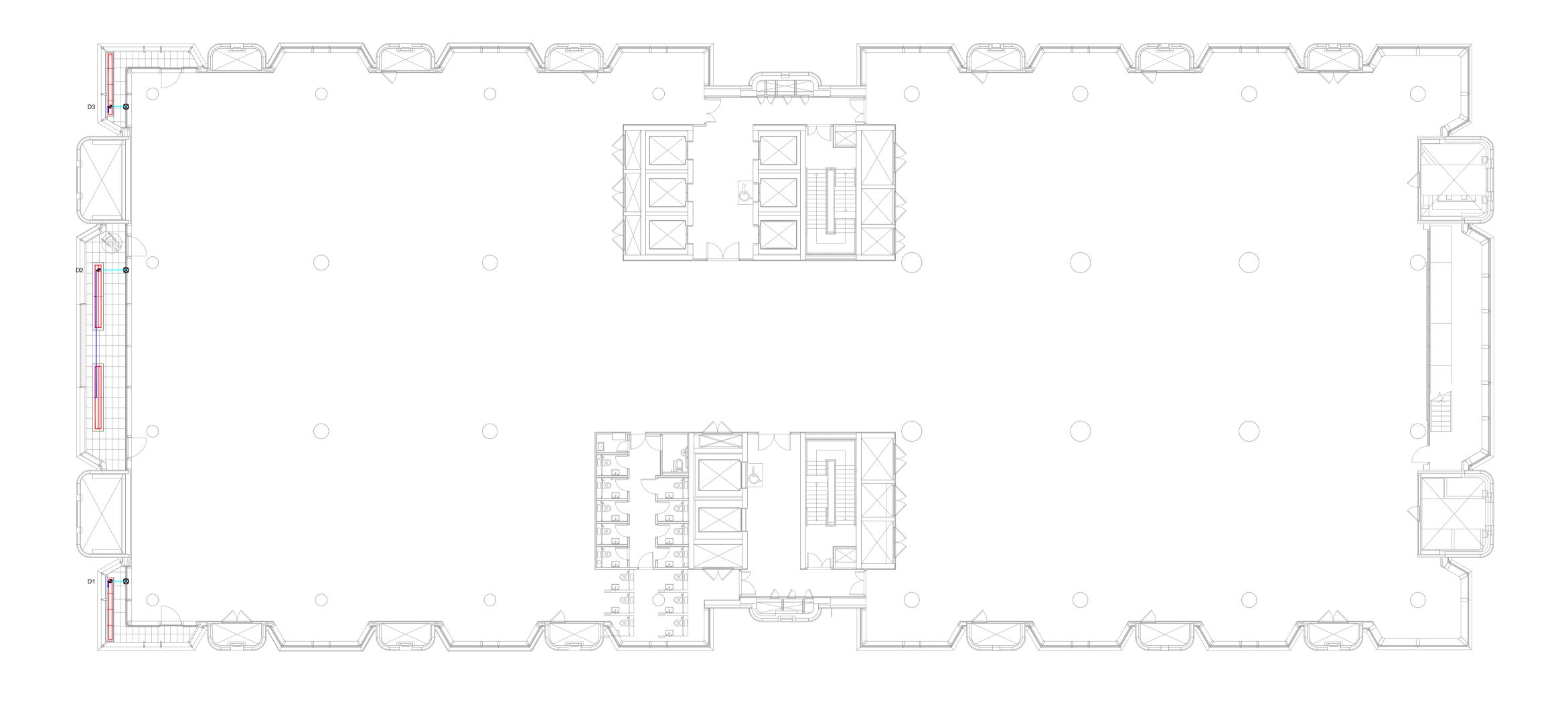
Example Drip Pipework Installation	WSL3209-EX1
Example Solenoid Valve Assembly	WSL3209-EX2
Example Rain Bird Drip Pipework	WSL3209-EX3
Example Movable Planter Irrigation Connection	WSL3209-EX4



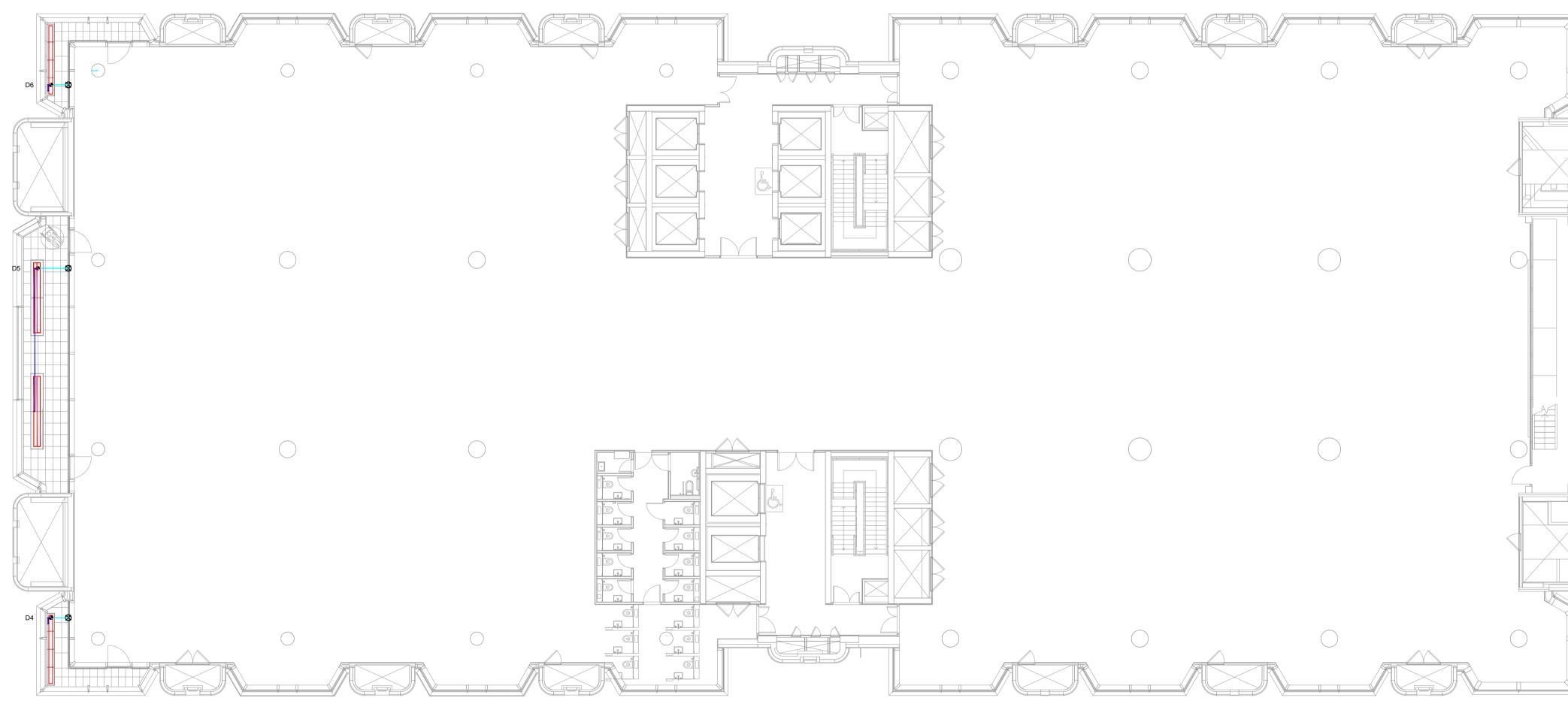


SAFETY SCHEMES IN PROCUREMENT



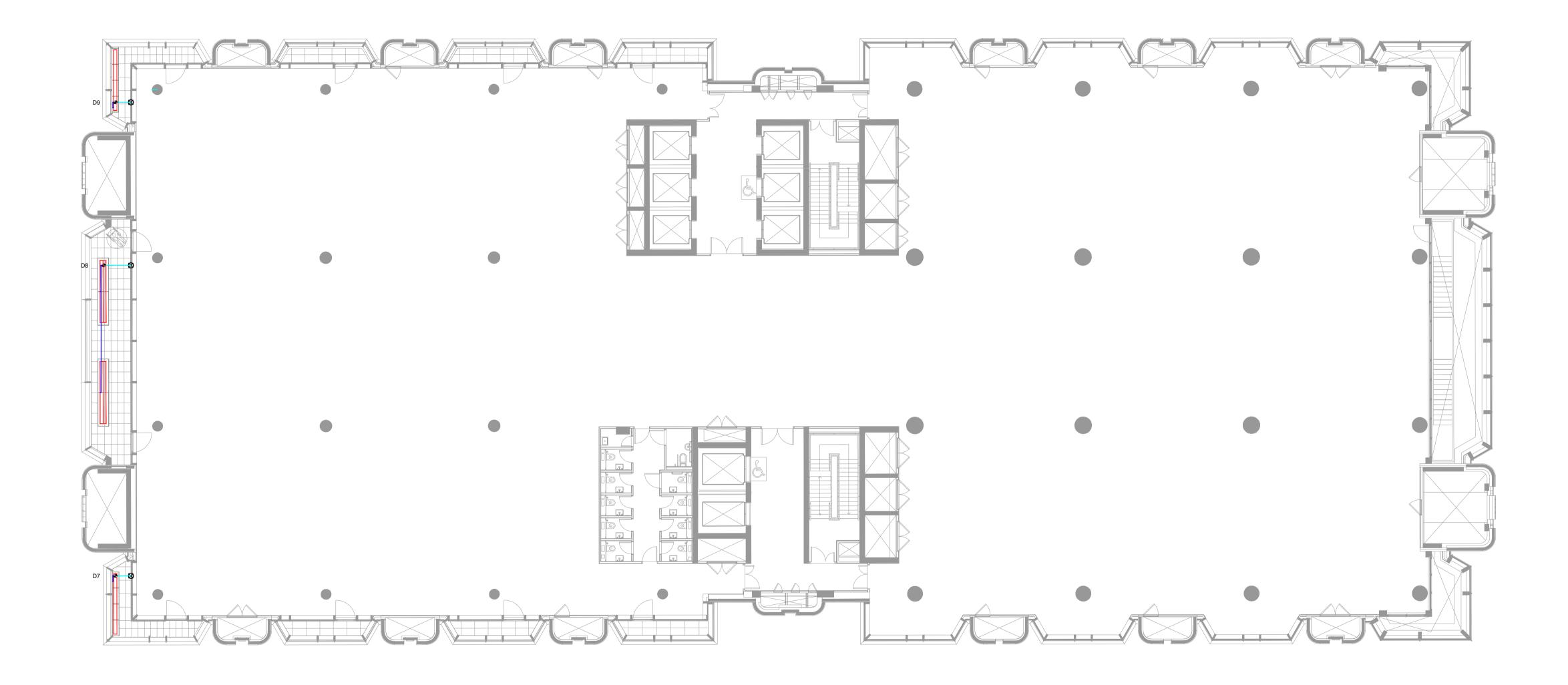


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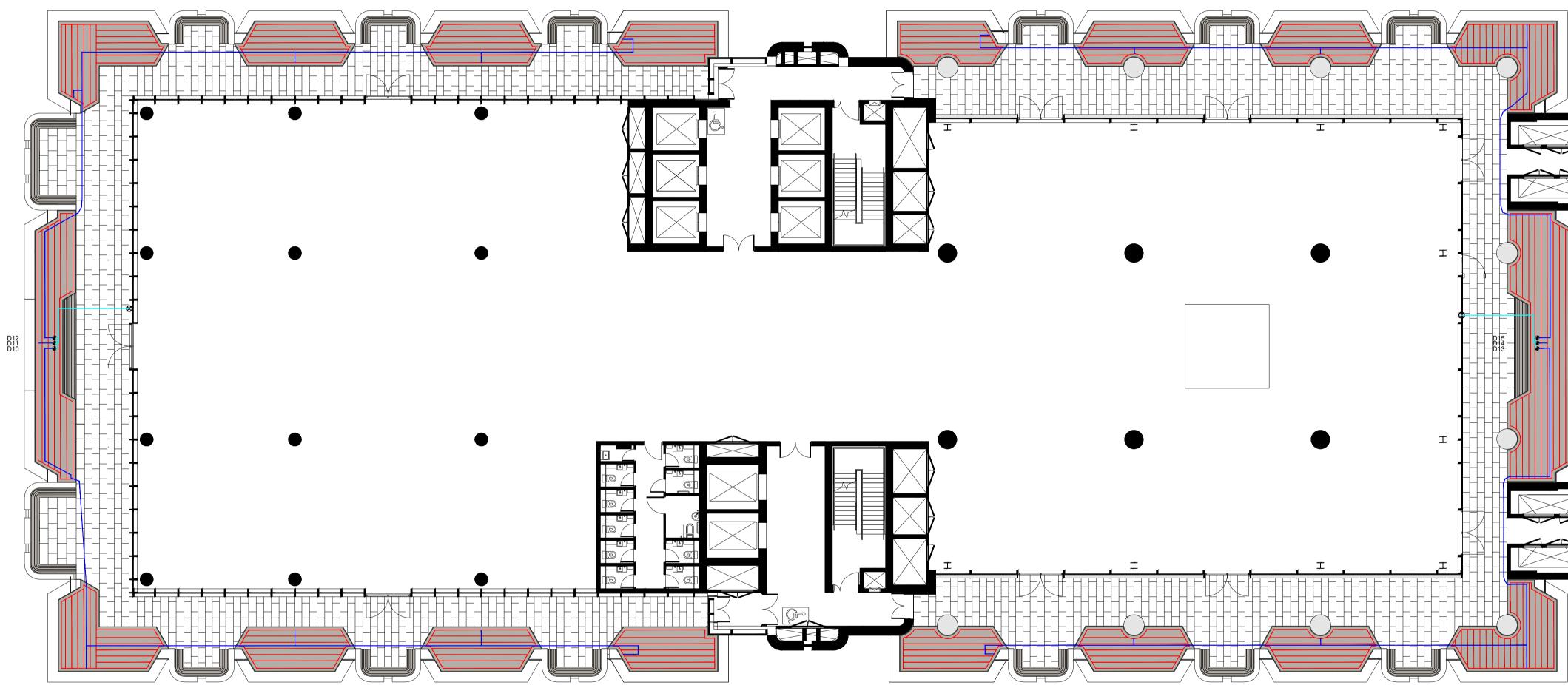


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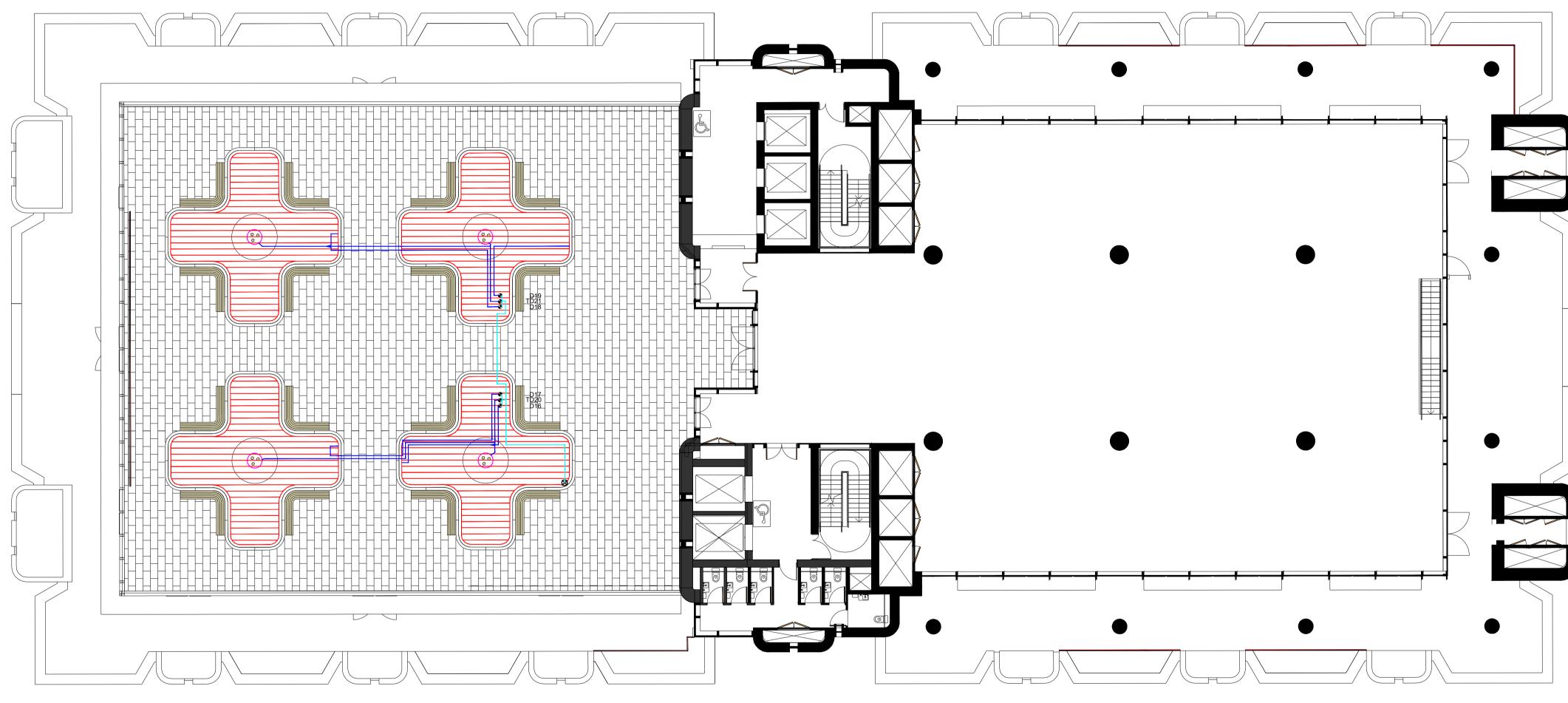


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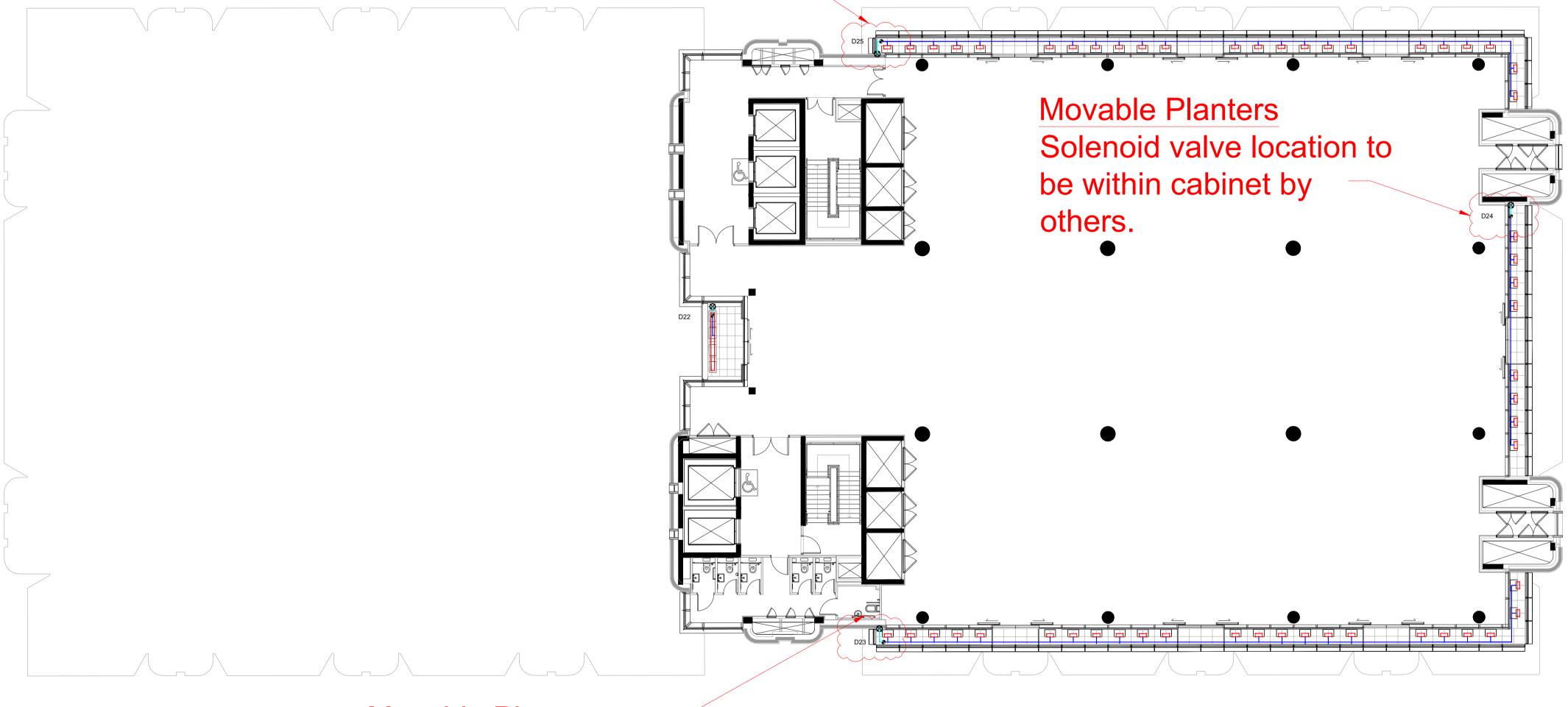




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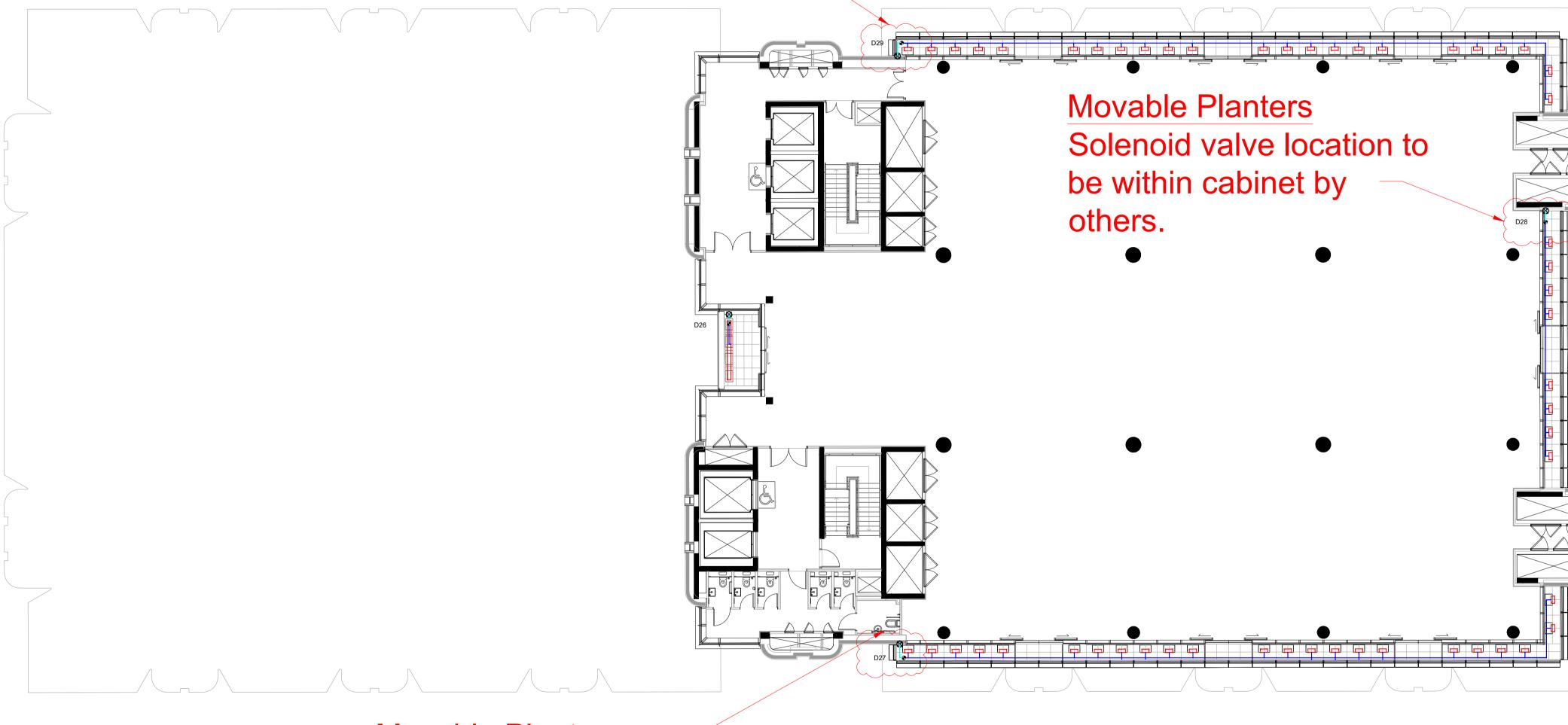






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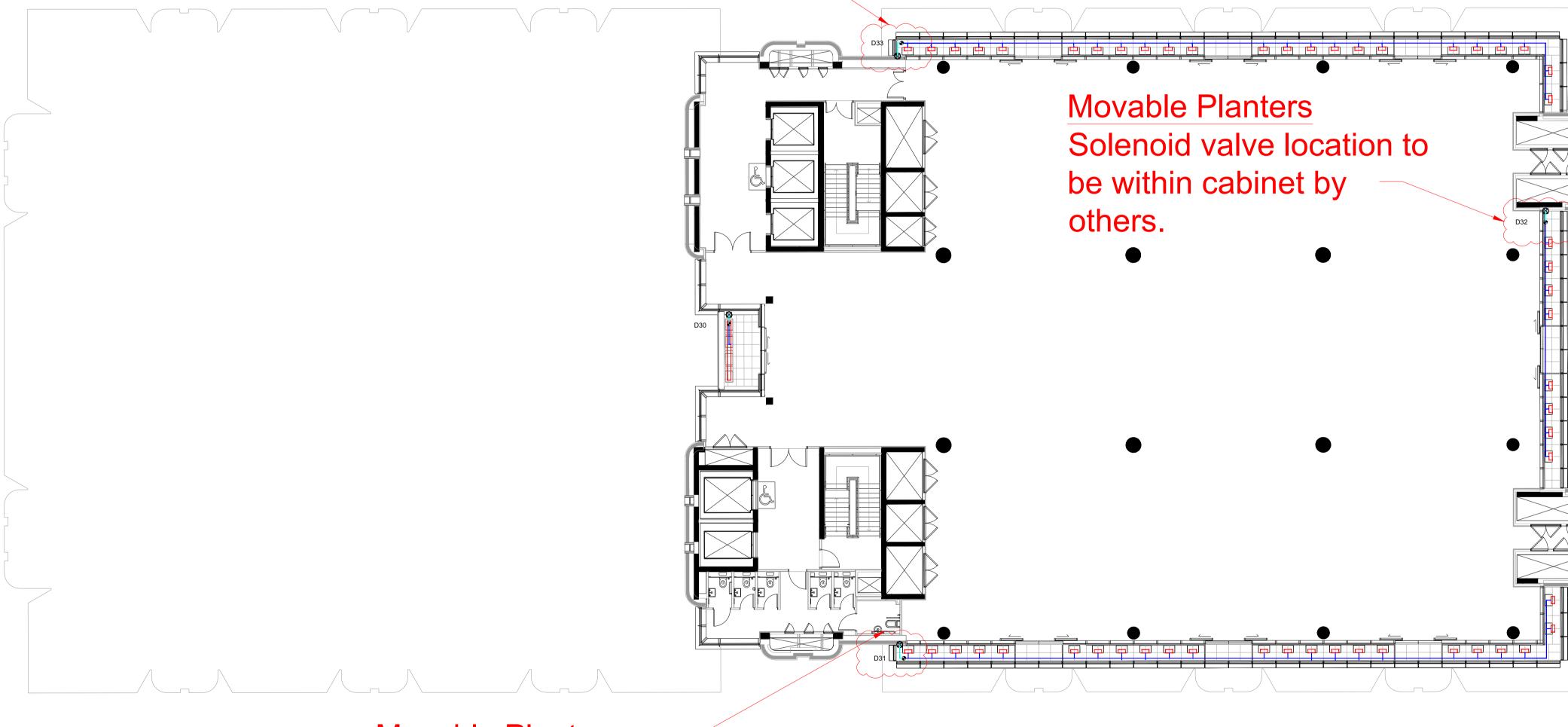


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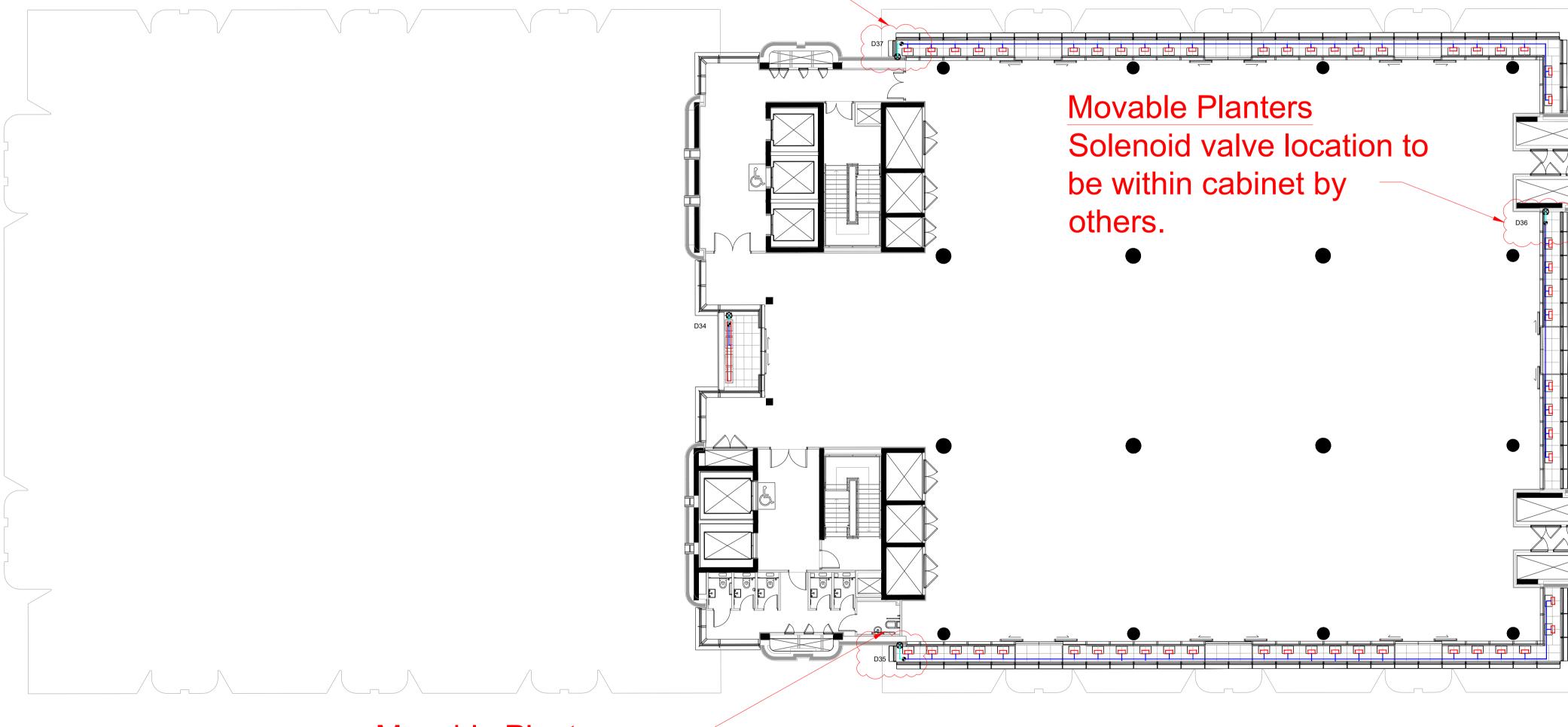
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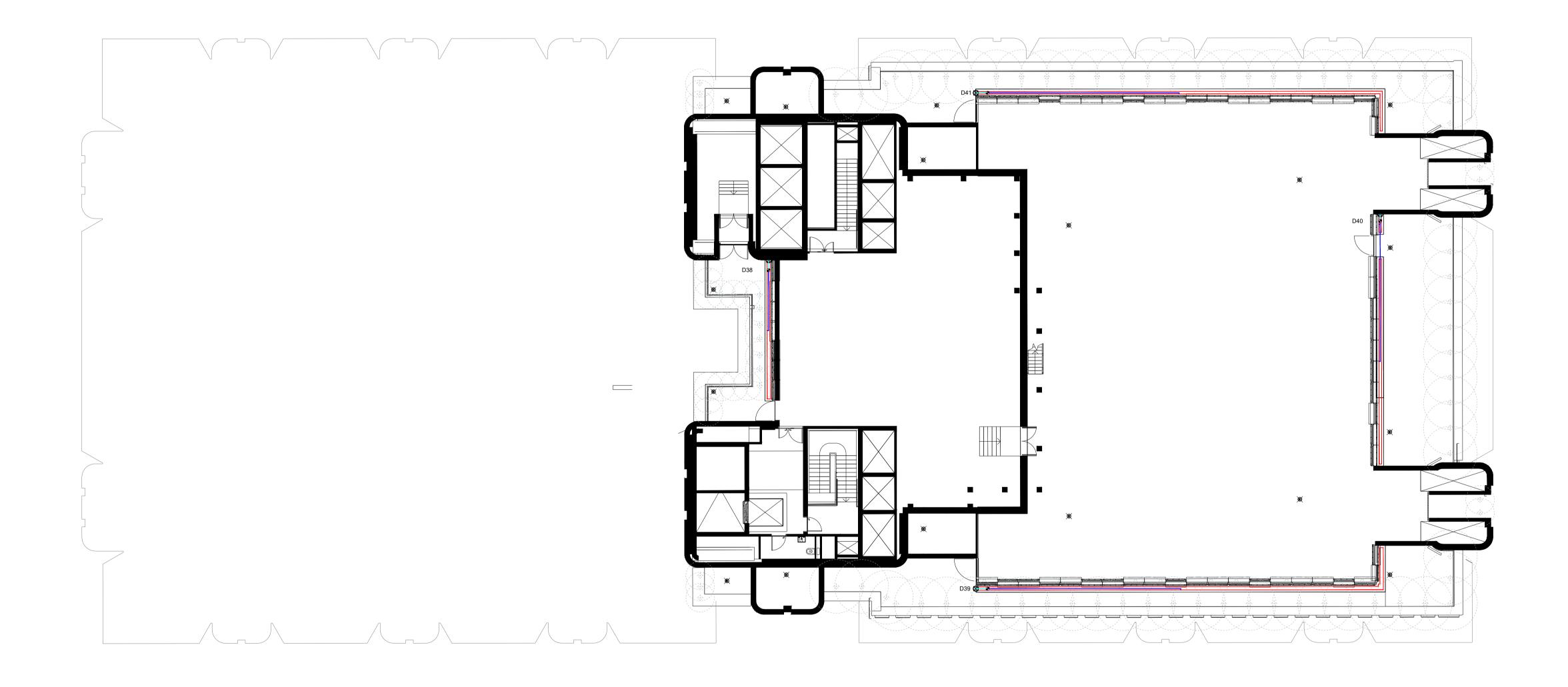


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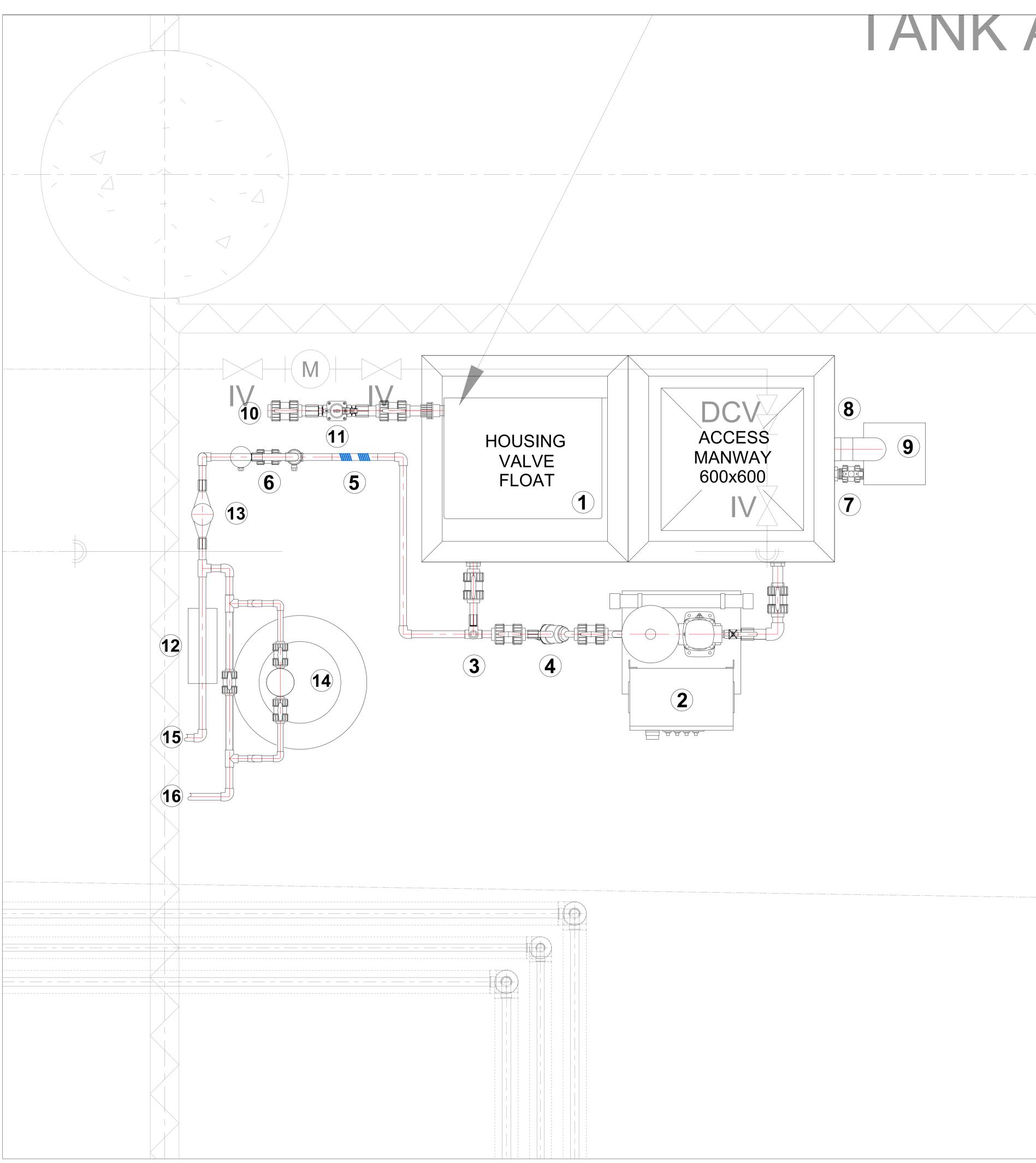








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	wa			
		1 Murray Court Wincanton Business Pa	ark	
		Wincanton Somerset, BA9 9RX		
		1963 824166 Fax: 0196	63 824443	
	Ema	il: info@waterscapeslim	ited.com	
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Legend

Irrigation System Water Storage Tai Flanged - 2m L x 1m W 1.5m H

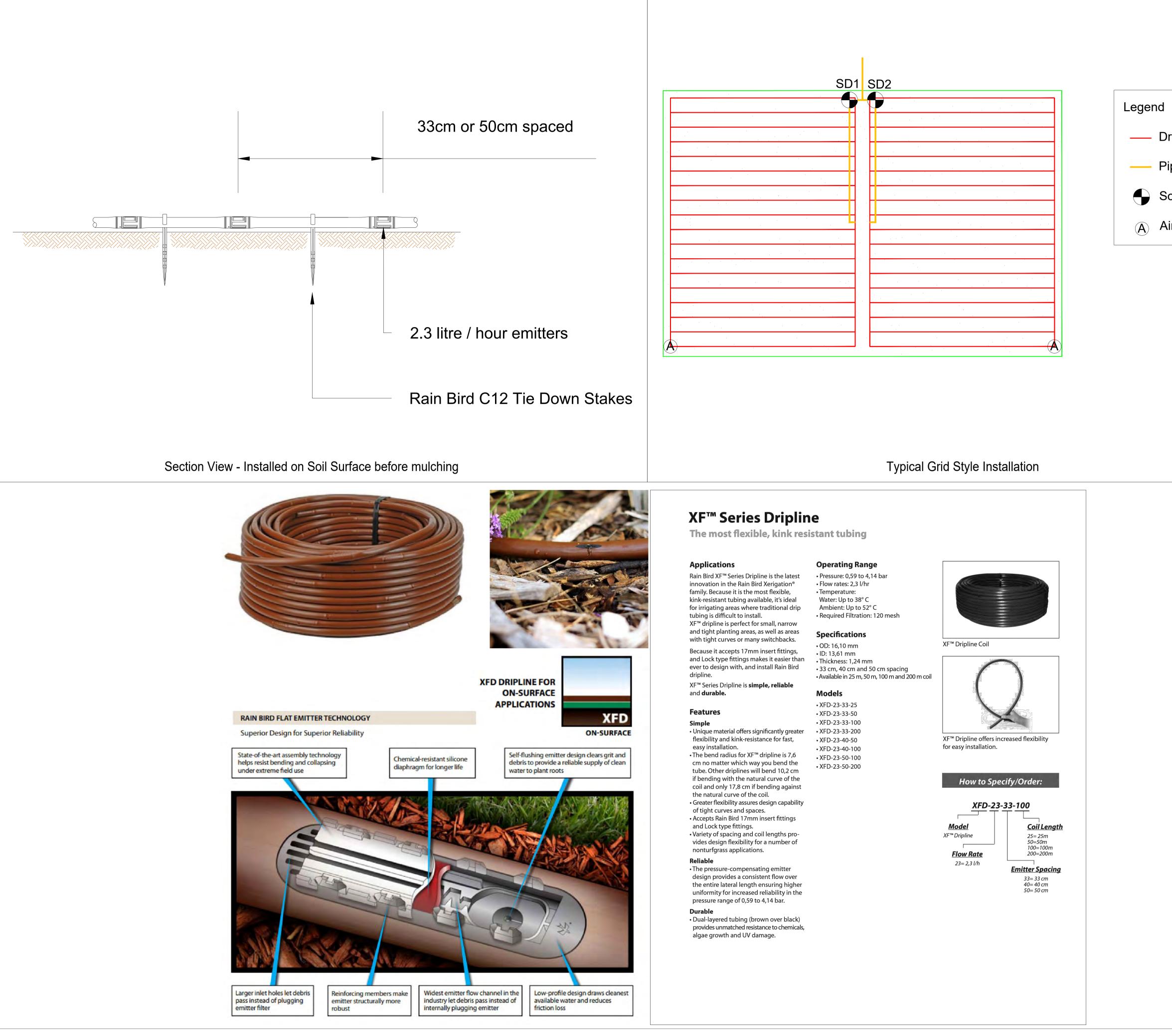
2. Irrigation Booster Pumpset

3. Pressure Relief Valve c/w Pipework tank

- 4. Amiad Inline debris Filter
- 5. Electronic Water Conditioner
- 6. Ultra Violet Treatment System
- 7. Tank Drain Down Facility
- 8. Tank Overflow Outlet
- 9. Floor Gully to be Sized by M&E Cor
- 10. Mains Water Supply To This Location
- 11. Mains Water Top-up Solenoid Valve
- 12. Irrigation Controller
- 13. Water Meter
- 14. Fertiliser Dosing System c\w Bund
- 15. Water Exits Plant Room to Landscap 1,2,3,4,5 and 10)
- 16. Water Exits Plant Room to Landscap 6,7,8 and 9)

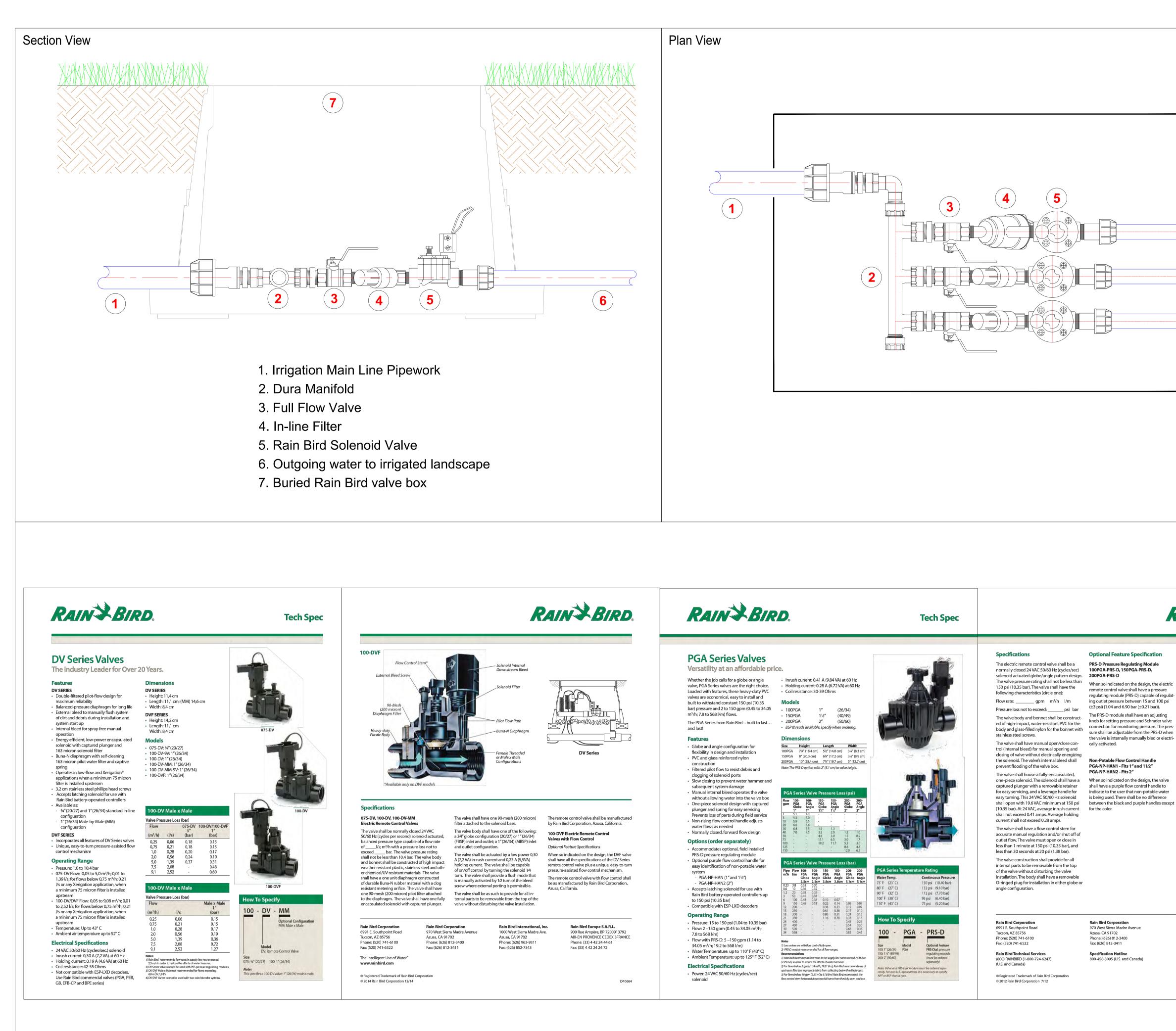
NOTE: All Pipework and signal cable rou building from the plant room to the lands designed and coordinated by others.

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	Notes	
	Water Supply - WSL requires 0.8 litres per second at min of 1 bar. maximum pressure 4 bar regulated in a BSP type	
	at point 10 shown on drawing. Drainage - WSL shall require a suitable drainage connection	on.
	Power - WSL shall require a suitable power supply to the i	
	 equipment - 25A / 415V / 3 Ph / 50Hz / N / E - Pump System 10A / 240V / 1 Ph for Irrigation Control System 	
	 10A / 240V / 1 Ph for Electronic Water Conditioner 10A / 240V / 1 Ph for UV Treatment Unit 	
onsultants	Network Connection - WSL requires a RJ-45 port with a L/ and a static IP address for remote access to the irrigation	
ion By Others	Other Items - The plant room shall require other standard i lighting, fire detection / warning systems etc - if required th	items such as
10	be specified by the main architects	
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	P02 24.11.22 Issued for stage 4a	PDB MC
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	waterscapes Ltd	
	WATER FEATURE & IRRIGATION SPECIALISTS	5
	1 Murray Court Wincanton Business Park Wincanton	
	Somerset, BA9 9RX Tel: 01963 824166	
	Email: info@waterscapeslimited.com	
	Bradley-Hole	
	Schoenaich Landsca	ipe
	Project Title:	
	Belgrove House	
	Drawing Title:	
	Irrigation	
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		o Norres
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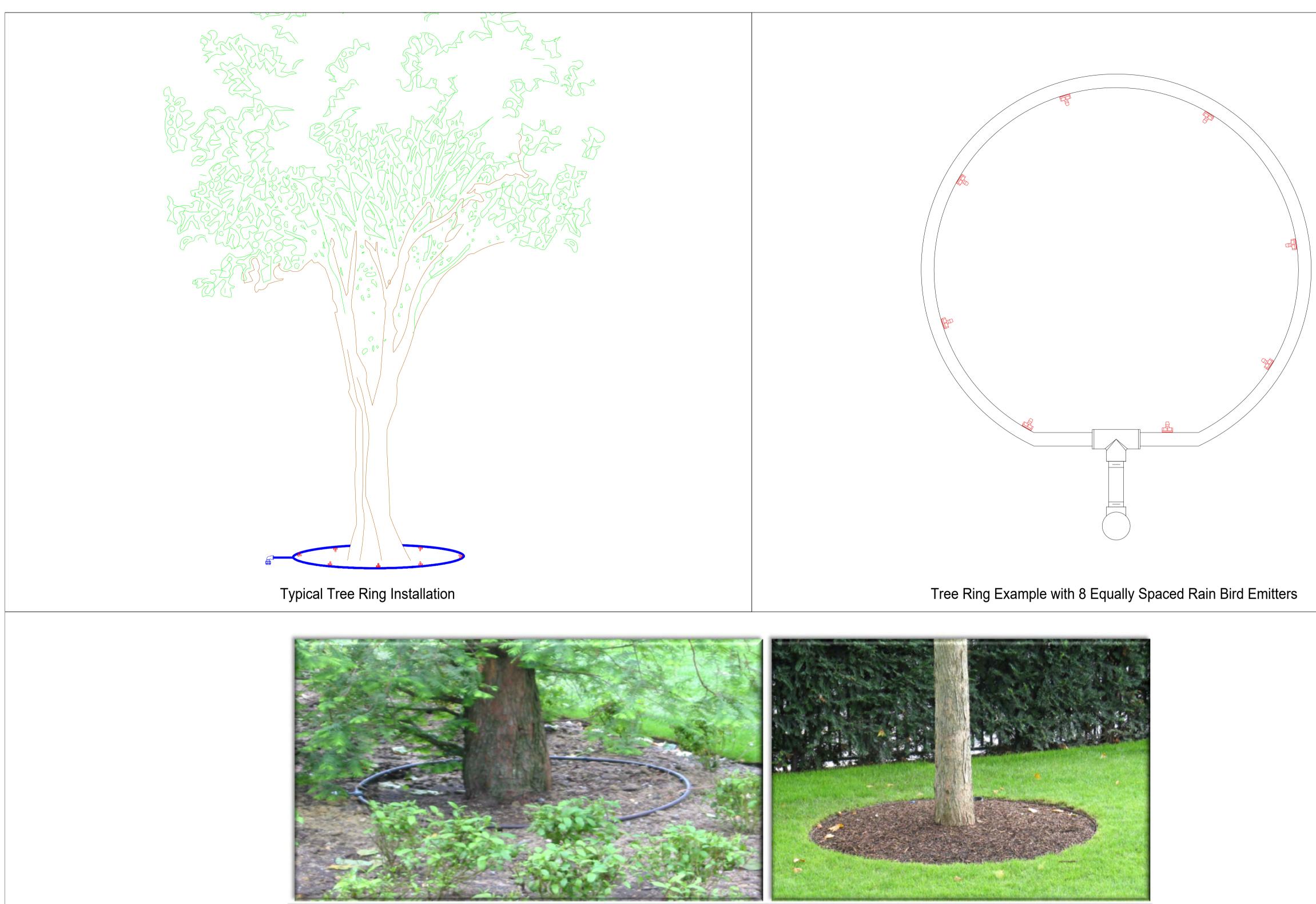


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Plastic Electric Remote Control PGA Valve (with PRS-D) using bottom inlet	Landscape Architect: Bradley-Hole Schoenaich Landscape							
Plastic Electric Remote Control PGA Valve (with PRS-D) using side inlet	Irrigation Consultant: Water FEATURE & IRRIGATION SPECIALISTS 1 Murray Court Wincanton Business Park Wincanton Somerset, BA9 9RX Tel: 01963 824166 Fax: 01963 824443 Email: info@waterscapeslimited.com							
	Project Title: Belgrove House							
Rain Bird International, Inc.	Drawing Title: Example Solenoid Valve Assembly							
Nam Brd mernationaly inc. 1000 West Sierra Madre Ave. Azusa, CA 91702 Phone: (626) 963-9311 Fax: (626) 852-7343 The Intelligent Use of Water" www.rainbird.com D38529PEO	Scale			Status: For information Checked:	CAD File Na WSL Approved:	me: 3209-EX2		
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Example Tree Ring installed - before and after being covered with mulch

Example of Tree Emitter in operation



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