



Attended permeable block paving to parking bays such as Tolamore Hydropave Blocks.

150mm diameter semi-perforated pipe in stone filled trench draining attended permeable paving.

Attended permeable paving using standard flag paving such as Tolamore Hydropave.

Soft landscaping to specialist design.

Paving bay island to be extended with tarmac finish to match existing.

Drainage channel

Drainage channel

Fixed outlet from attended block paving to existing 150mm to drain ground drainage system.

Central island, with tarmac finish to match existing. Laid with falls towards existing parking areas.

Attended permeable block paving parking bays, such as Tolamore Hydropave Blocks.

Standard tarmac car-park circulation construction, laid to falls to existing and proposed drainage channels.

Standard tarmac car-park circulation construction, laid to falls to match existing.

Proposed flow control chamber with a limiting drainage rate of 2.5 l/s. To be opened with Dan Gyron Mesh Water.

Proposed connection with new manhole onto existing adoptable sewer.

Standard tarmac car-park circulation construction, laid to falls to match existing.

Proposed flow control chamber with a limiting drainage rate of 2.5 l/s. To be opened with Dan Gyron Mesh Water.

Proposed connection with new manhole onto existing adoptable sewer.

Cyclepath

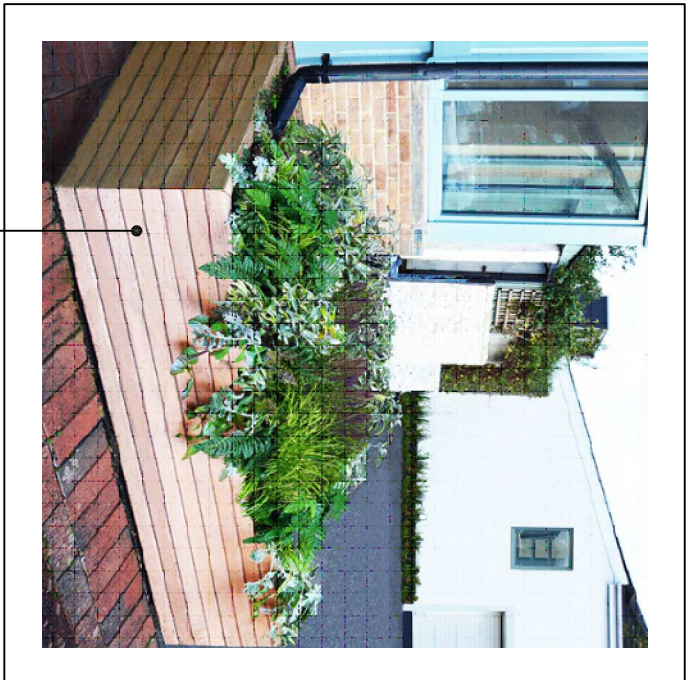
A4241 - Alan Way

LEGEND

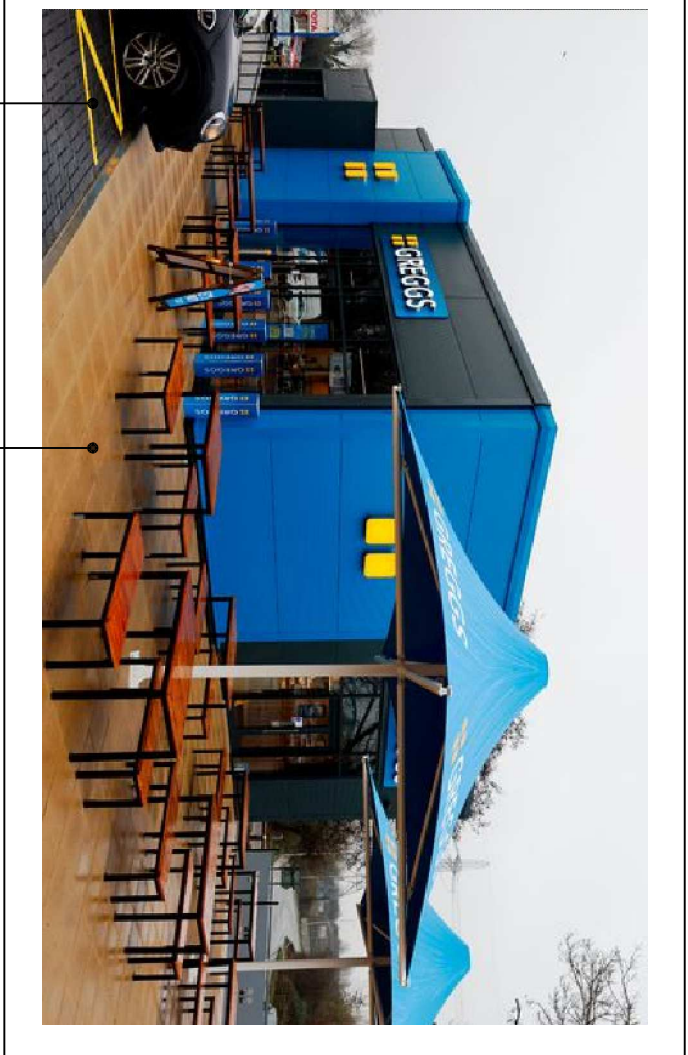
- Existing Combined Sewer & Manhole
- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Rodding Eye
- Rain Water Pipe
- Soil Vent Pipe
- Road Gully
- Yard Gully

GENERAL

- All dimensions are in millimetres. All levels are in metres.
- Do not scale from this drawing – use figured dimensions only.
- This drawing is to be read in conjunction with the latest Engineer's and Specialist's drawings and specifications.
- MATERIALS & WORKMANSHIP**
 - All work shall comply with the relevant British standards, current Building Regulations and the specifications shown.
 - Where drains run close to the building, trenches are to be excavated to levels in accordance with Building Regulations Part 1.
- PERFORMANCE**
 - Pipework to conform to the following:-
 - UPVC pipes with heatable joints to BS EN 1401-1.
 - UPVC pipes between 150-300mm diameter are to be structured wall pipes of stiffness class SN8.
 - Flexible joints shall be provided to all pipes within 600mm of inner face of manhole. Proprietary pipes shall be surrounded with 150mm grade S16 concrete cast monolithically with the manhole base.
 - Where pipes are encased in concrete the flexibility of the joints are to be maintained throughout the encasement. This should be provided by means of 20mm thick flakeboard, (or polysyrene), and positioned around the pipe at the centre of every joint at 6m centres max.
 - Pipes shall have granular bed and surround unless otherwise detailed. Granular material shall conform to BS 1342, and should be carefully placed and consolidated by hand in thin layers.
 - All pipework connections at manholes to be soffit to soffit.
 - The length of pipework between manholes to include for any short length pipes as necessary to achieve the configuration of rodder pipes and standard short length pipes at fixed manhole positions.
 - All pipework built into manholes to be either standard short lengths or cut lengths as appropriate.
 - Rodder pipes to be a maximum of 600mm long.
 - Maximum length of pipe within adoptable works to be 3m.
 - All saddle connections to be formed utilizing proprietary junction sections.
 - All pipework beneath vehicular circulation areas and within 1m of such areas shall, where cover is less than 1200mm, receive a full concrete bed and surround, 300mm elsewhere.
 - All pipework beneath building footprint to receive full concrete bed and surround.
 - All down pipe connections to be 100mm nominal bore and all down pipes to have rodding access points approx. 1000mm above ground/finished floor level.
 - All road gully connections to be 150mm nominal bore.



Vegetated rampart wall



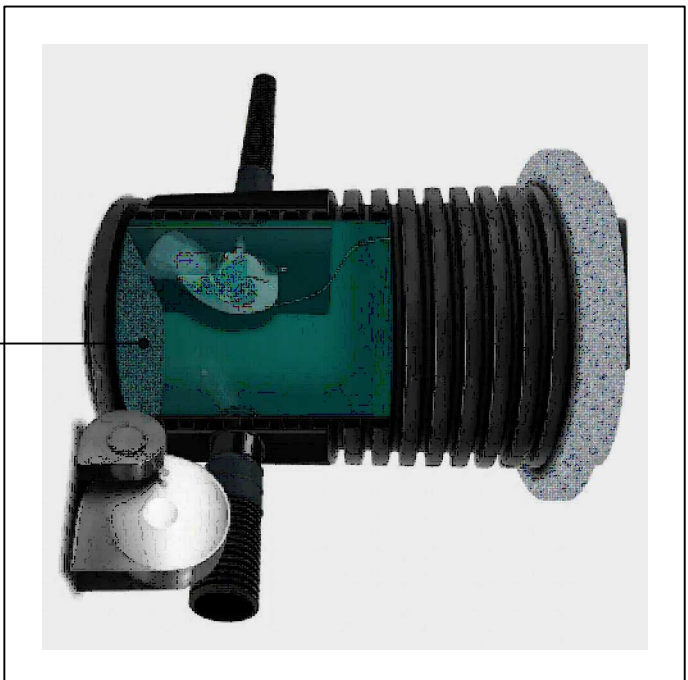
Permeable block paving to access bays

Permeable flag paving to external areas



Permeable block paving to access bays

Tarmac paving to tarmac



Water Flow Control device

This specification is all respects shall be in accordance with the current UK CEN Specification and Construction publication in force in the country at the time of construction.

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DRAWING ISSUE STATUS
☒ PRELIMINARY ISSUE
☐ TENDER ISSUE
☐ CONSTRUCTION ISSUE
☐ DESIGN DEVELOPMENT PRIOR TO TENDER
☐ DESIGN DEVELOPMENT PRIOR TO CONSTRUCTION
☐ AS BUILT ISSUE

PROJECT: DRIVE THRU, BAGLAN RETAIL PARK

TITLE: PROPOSED DRAINAGE LAYOUT