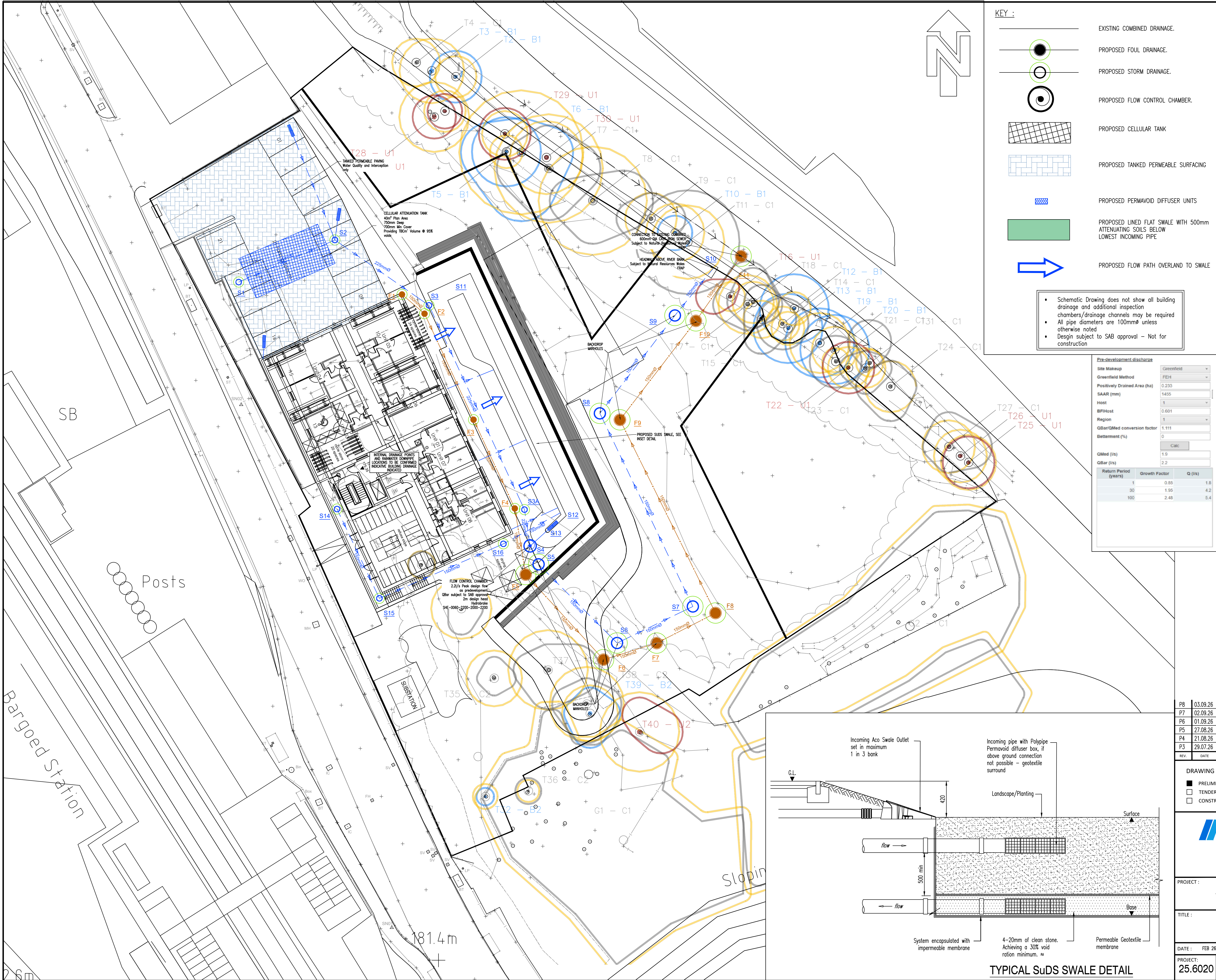




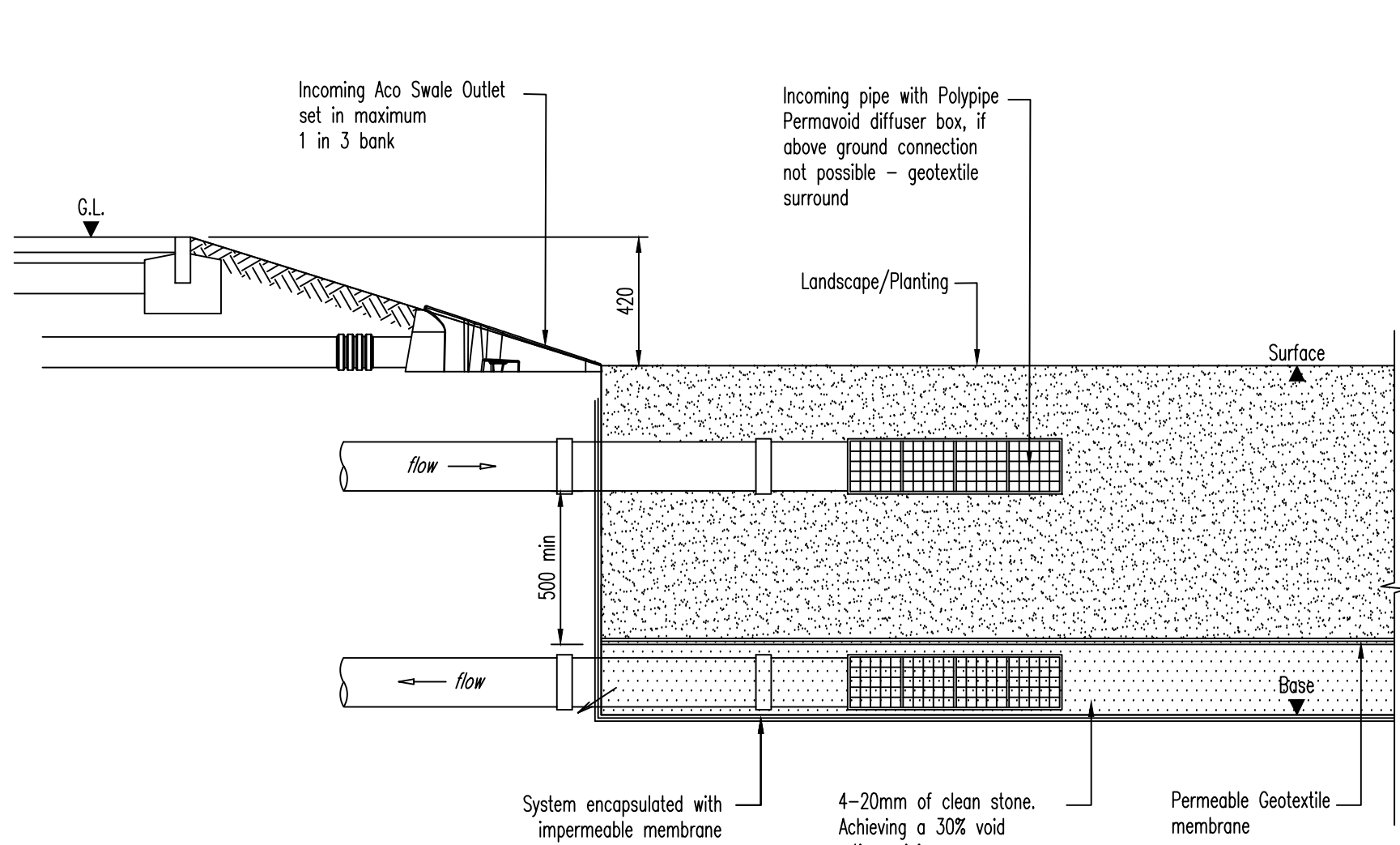
KEY :

- EXISTING COMBINED DRAINAGE.
- PROPOSED FOUL DRAINAGE.
- PROPOSED STORM DRAINAGE.
- PROPOSED FLOW CONTROL CHAMBER.
- PROPOSED CELLULAR TANK
- PROPOSED TANKED PERMEABLE SURFACING
- PROPOSED PERMAVOID DIFFUSER UNITS
- PROPOSED LINED FLAT SWALE WITH 500mm ATTENUATING SOILS BELOW LOWEST INCOMING PIPE
- PROPOSED FLOW PATH OVERLAND TO SWALE

- Schematic Drawing does not show all building drainage and additional inspection chambers/drainage channels may be required
- All pipe diameters are 100mm unless otherwise noted
- Design subject to SAB approval – Not for construction

Pre-development discharge			
Site Makeup	Greenfield		
Greenfield Method	FEH		
Positively Drained Area (ha)	0.233		
SAAR (mm)	1455		
Host	1		
BP/Host	0.601		
Region	1		
QBar/QMed conversion factor	1.111		
Betterment (%)	0		
	Calc		
QMed (l/s)	1.9		
QBar (l/s)	2.2		
Return Period (years)	Growth Factor	Q (l/s)	
1	0.85	1.8	
30	1.95	4.2	
100	2.48	5.4	

- 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 backfilled with concrete to levels in accordance with Building Regulations Part H.
- PIPEWORK:**
- Pipework to conform to the following:-
Vitrified clay systems with flexible joints to BS.65.
Precast concrete systems with flexible joints to BS.5911.
U.P.V.C. systems with flexible 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. Projecting pipes shall be surrounded with 150mm grade ST4 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 fibreboard, (or polystyrene), 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.13242, 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 rocker 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.
 - Rocker pipes to be a maximum of 600mm long.
 - Maximum length of pipe within adoptable works to be 3m.
 - All saddle connections to be formed utilising 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, 900mm 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.
- MANHOLE COVERS AND GRATINGS:**
- Covers shall be set at, or not more than 5mm below the surrounding level in paved areas. Inverts shall be within 5mm of given level, and may not cause the as-laid gradient of the pipes to vary from that given on the drawing by more than 10%.
 - All manhole covers in carriageway area shall comply with the relevant B.S EN 124, D400 kitemarked and they shall be of a non-rocking design which does not rely on the use of cushion inserts.
 - All manhole covers in footways, pedestrian areas and comparable locations shall comply with the relevant B.S EN 124, B125 kitemarked and they shall be of a non-rocking design which does not rely on the use of cushion inserts.
 - All manhole covers shall be the non-ventilating type and shall have closed keyways.



TYPICAL SuDS SWALE DETAIL

P8	03.09.26	JH	Maintenance Track Realigned
P7	02.09.26	JH	Maintenance Track Realigned, S6 and F6 Moved to Avoid Tree RP2s
P6	01.09.26	JH	Tree Zone Overlay Added
P5	27.08.26	JH	Updated to suit position of substation
P4	21.08.26	JH	Updated to suit new layout
P3	29.07.26	JH	Updated to suit new layout

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

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PROJECT: **STATION ROAD, BARGOED**

TITLE: **DRAINAGE SCHEMATIC**

DATE: FEB 26	DRAWN: JH	CHECKED: GF	SCALE: 1:200 (A1)
PROJECT: 25.6020	ORIGIN: APL	ZONE: XX	LEVEL: XX
	TYPE: DR	ROLE: C	NUMBER: 1001
			CODE: S1
			REV: P8