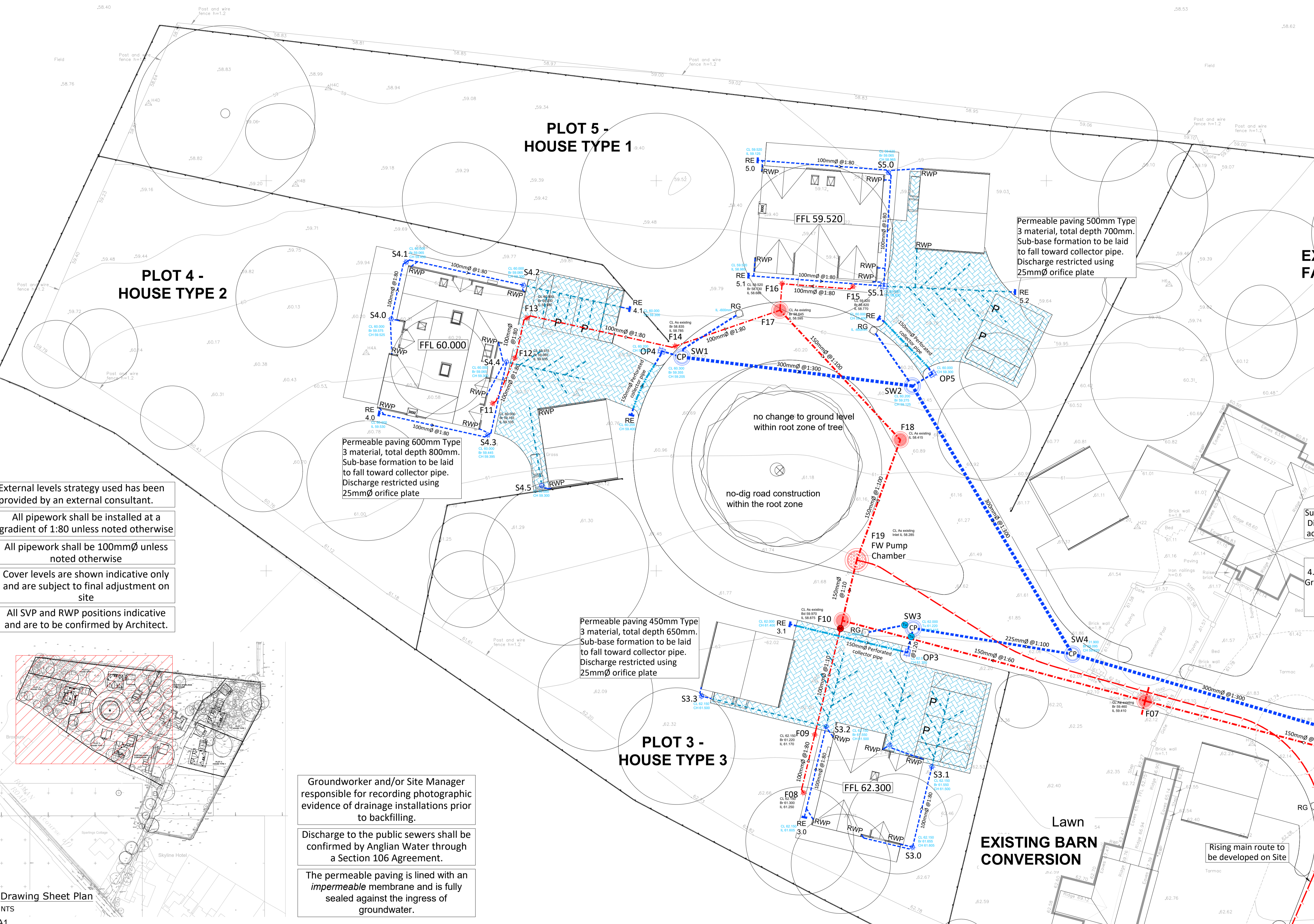


General Notes:

THIS DRAWING MUST NOT BE SCALED.

- The design, drawings and all included information are the sole copyright of Morgan Engineering Consultants and no element shall be reproduced without consent in writing.
- All drawings shall be read in conjunction with all Structural/Civil Engineering drawings, the MEC specification and drawings produced by the Architects, M&E Engineers, Sub-Contractors etc.
- All setting out is to be confirmed by the Architect.
- The Contractor is to check and confirm all setting out dimensions before commencing works. Where dimensions are shown on MEC's drawings, any discrepancies are to be reported asap.
- Dimensions must not be scaled from MEC's drawings.
- All dimensions are in millimeters unless noted otherwise.
- Reference is to be made to construction and structural notes on drawing S-00 and the accompanying MEC Structural Specification.



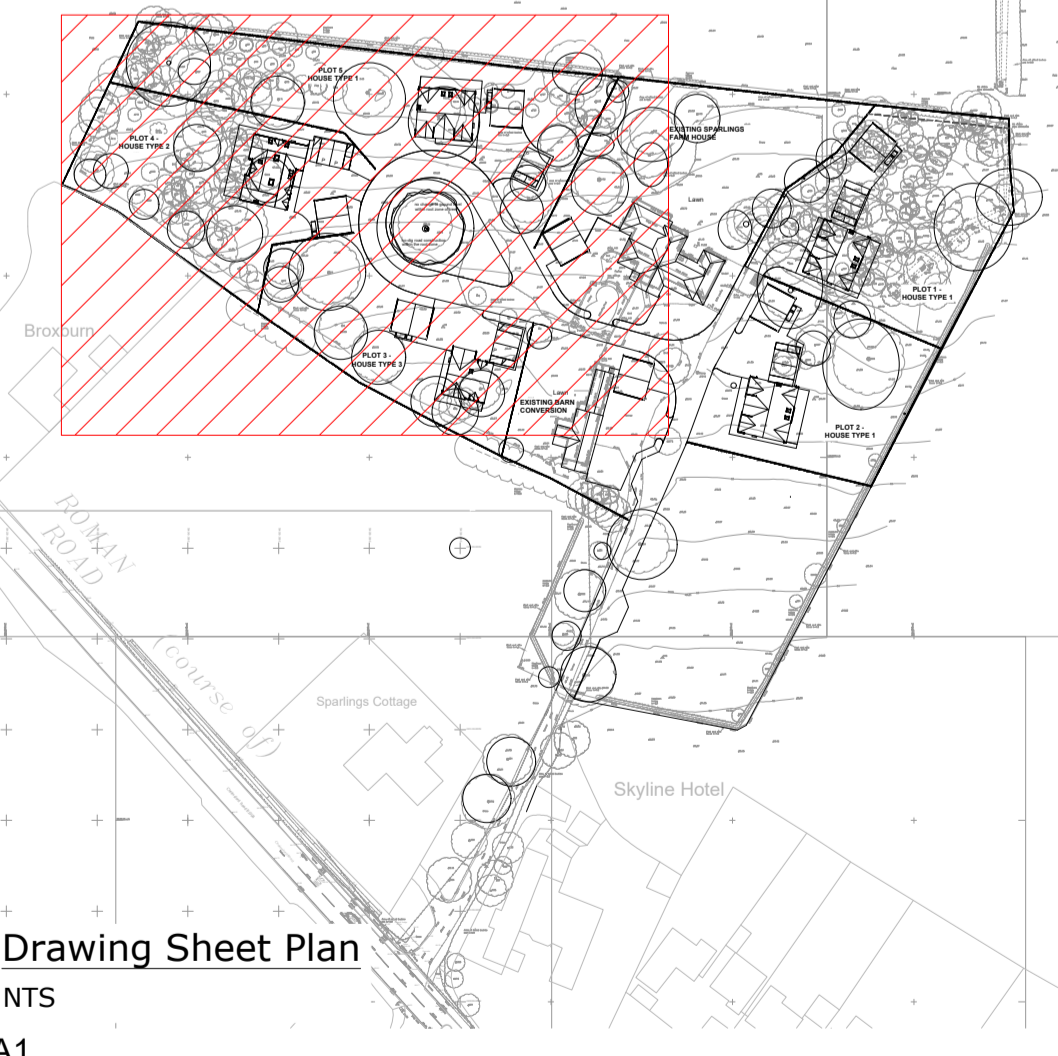
Drawing Legend	
Surface Water Drainage	
	Proposed surface water drainage
	Proposed high level connection to manhole
	Type A/B precast concrete ring manhole
	Type B/C inspection chamber Rigid Construction - Rectangular
	Type D inspection chamber Flexible Construction
	Type E inspection chamber Flexible Construction
	Rodding Eye
	Geo-cellular storage tank - lined with an impermeable membrane and is fully sealed against the ingress of groundwater.
	Road gully
	RWP Location
	Proposed Catchpit
	Proposed Pump Chamber. 1.0 l/s discharge rate
	Orifice plate 25mmØ to slow discharge from permeable paving areas
	Aqua Swirl Vortex Separator by SDS (or similar approved)
	Channel Drain. As specified or similar approved by client
	Threshold Drain. Hexdrain or similar approved by client
	Tanked porous paving - full depth construction (vehicle). Lined with an impermeable membrane and is fully sealed against the ingress of groundwater.
	Perforated distribution pipe - pipes laid in permeable paving sub-base as shown. (Refer to drainage layout for positions).
	Perforated collector pipe - pipes laid in permeable paving sub-base as shown. (Refer to drainage layout for positions).
Foul Water Drainage	
	Proposed foul water drainage
	Proposed Backdrop Connection
	Type A/B inspection chamber Rigid Construction - Circular
	Type B/C inspection chamber Rigid Construction - Rectangular
	Type D inspection chamber Flexible Construction
	SVP location
	Stub Stack location with air admittance valve
	Channel Drain. As specified or similar approved by client
	Yard gully

- External levels strategy used has been provided by an external consultant.
- All pipework shall be installed at a gradient of 1:80 unless noted otherwise
- All pipework shall be 100mmØ unless noted otherwise
- Cover levels are shown indicative only and are subject to final adjustment on site
- All SVP and RWP positions indicative and are to be confirmed by Architect.

Permeable paving 600mm Type 3 material, total depth 800mm. Sub-base formation to be laid to fall toward collector pipe. Discharge restricted using 25mmØ orifice plate

Permeable paving 450mm Type 3 material, total depth 650mm. Sub-base formation to be laid to fall toward collector pipe. Discharge restricted using 25mmØ orifice plate

- Groundworker and/or Site Manager responsible for recording photographic evidence of drainage installations prior to backfilling.
- Discharge to the public sewers shall be confirmed by Anglian Water through a Section 106 Agreement.
- The permeable paving is lined with an impermeable membrane and is fully sealed against the ingress of groundwater.



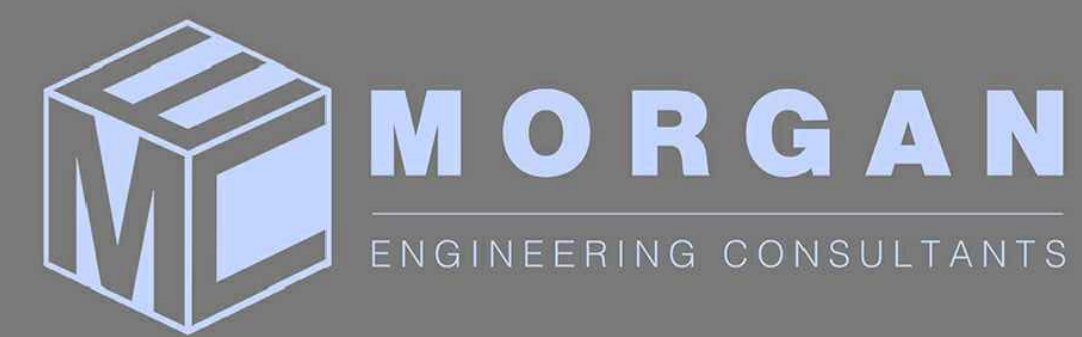
Drawing Sheet Plan NTS A1

Client:
BYFORD & HAMMOND

Project:
**SPARLINGS FARM
CHELMSFORD ROAD
BARNSTON, CM6 1LP**

Drawing Title:
**PROPOSED DRAINAGE LAYOUT
SHEET 1 OF 3**

LONDON . ESSEX . SURREY . SUFFOLK . KENT
STRUCTURAL & CIVIL ENGINEERS
Colchester Office 01206 259 360 / 07708 446 575
London Office 0204 534 5593 / 07738 439 500
Email: office@morganeng.co.uk
Web: www.morganeng.co.uk



P1	P	26.01.24	PRELIMINARY ISSUE	JM	DP
REV	STATUS	DATE	DESCRIPTION	BY	CHK
Drawn by:	Checked by:	Date:	Scale at A1:		
JM	DP	JAN 2024	1-200 @A1		
Issue Status: PRELIMINARY					
Ref:	2401-08-C-01			Rev:	P-