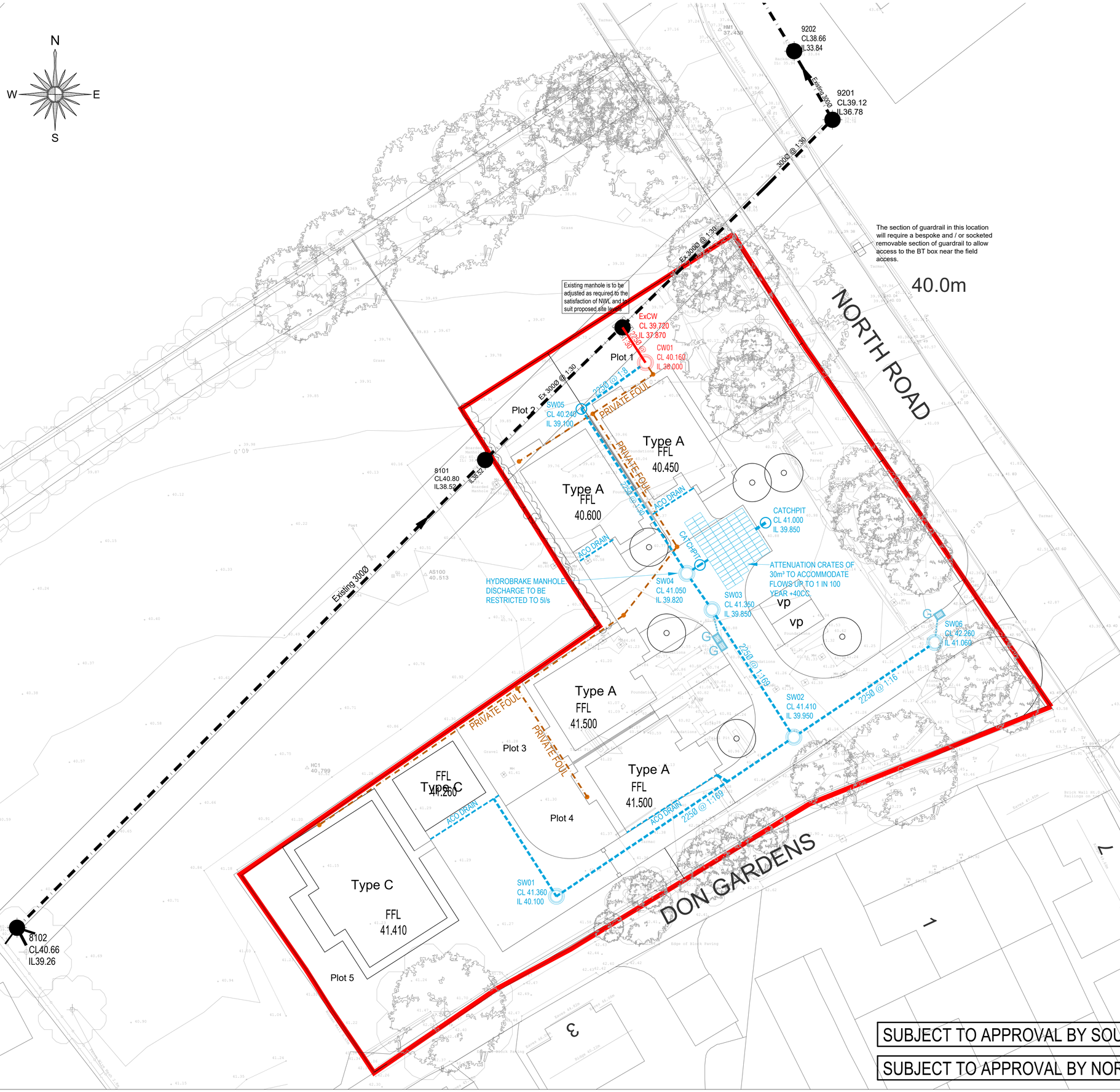


Legends:

- Existing adopted Combined — ex. mh
- Proposed adoptable Storm — S1
- Proposed adoptable Foul — F1
- Proposed adoptable Combined — C1
- Highway Gully — G

DRAINAGE STRATEGY NOTES

Flood Risk
Existing flood risk information obtained from the EA flood maps
Flood risk from rivers or the sea
The site is located in Flood Zone 1.
Flood risk from surface water
Existing Surface water flooding has been identified in the south east corner of the site, this is coming through the existing site entrance. A new road gully is to be installed on the high side of the proposed access to catch any water flowing north. This will stop flows identified from entering the site.

Discharge via Infiltration
The ground investigation included falling head tests, the results were not favourable and the recommendation in the report is that the site is not suitable for the use of soakaways.
For this reason Infiltration has been discounted as a method of surface water disposal.

Discharge to Water Course
As previously discussed with NWL and STC this option has been discounted due to scheme viability.

Discharge to Public Sewers
The NWL combined sewer has been identified as the most suitable point of discharge for the scheme.
Due to the site consist of less than 10 plots and under 1 hectares it is classed as a minor development. Therefore surface water discharge is restricted NWL approved rate of 5l/sec to the sewer

Proposed maximum discharge rates
100year +40%CC = 5l/sec
The above rate gives a satisfactory orifice size within the flow control device.

100year volumes required
30m³
The existing trees along with the size and layout of this housing scheme does not allow for any above ground SuDS that would give any significant volumes.
Aquacell crates are to be utilised with rodding access upstream and downstream and a roddable channel through the crates along this line.

Maintenance arrangements
Sewers within the road network - NWL will maintain these sewers once the maintenance period is over - The developer will be responsible for the upkeep until the sewers are handed over.

Crate system - This system will be the responsibility of the developer and they must follow the maintenance schedule which should be read in conjunction with this drawing

SUBJECT TO APPROVAL BY SOUTH TYNESIDE COUNCIL

SUBJECT TO APPROVAL BY NORTHUMBRIAN WATER LTD

Rev.	Description	By	Chk	App	Date
B	Updated to suit new layout	HA	SH	LB	28/04/21
A	Drainage revised to suit the NWL discharge rate	HA	SH	LB	06/04/21
Ø	Initial Issue	HA	SH	LB	26/02/21

Portland consulting engineers
10 Bankside, The Watermark, Gateshead, Tyne & Wear, NE11 9SY
T: 0191 4619770 W: www.portlandconsulting.co.uk
F: 0191 4603028 E: info@portlandconsulting.co.uk

Client
TELMAC Developements

Project
Proposed Residential Development at West Boldon Primary School

Drawing Title
Drainage Layout

Scale	Sheet Size		
1:200	A1		
Drawn By	Checked By	Approved By	Date
HA	SH	LB	01/04/21

Drawing Status
For Planning

Project No.	Drawing No.	Revision
2017021	1001-01	B

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