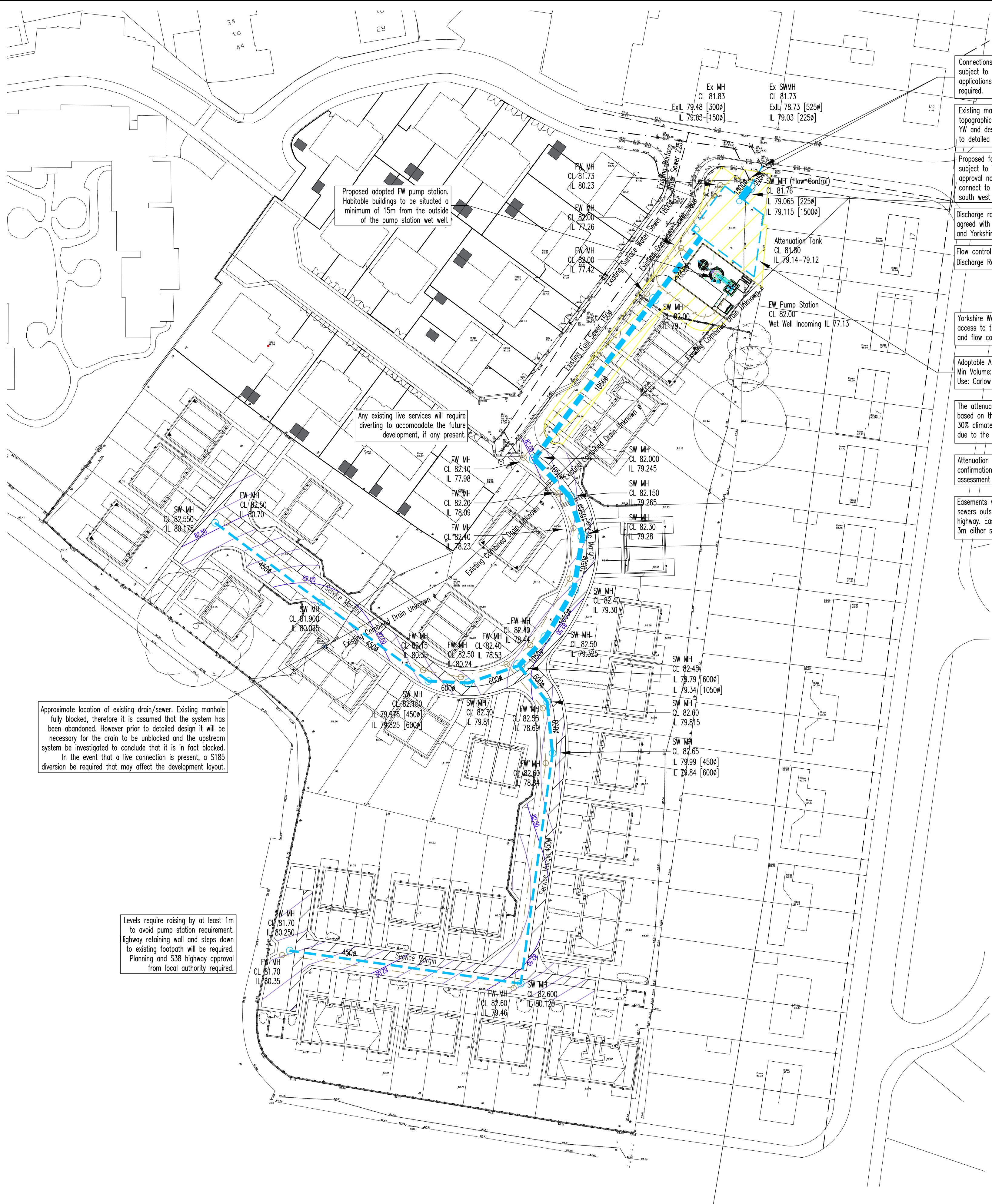


Connections to existing YW sewers subject to Section 106 connection applications. 21 days notice will be required.

Existing manhole locations and IL calculated from topographical survey and rough details provided by YW and designs by others. IL to be confirmed prior to detailed design and reported to engineer.

Proposed foul water connection to existing system subject to Yorkshire Water approval. Should YW approval not be granted, proposed foul water to connect to existing sewer approx. 100m to the south west corner of the Site.

Discharge rate to be agreed with Barnsley MDC and Yorkshire Water

Flow control manhole
Discharge Rate 5.0l/sec

Yorkshire Water will require future access to the attenuation tank and flow control manhole.

Adaptable Attenuation Tank
Min Volume:-280.5m³
Use: Carlow Pre-cast Tank or similar

The attenuation has been designed based on the 1 in 100 year + 30% climate change storm event due to the topography of the site.

Attenuation tank size subject to confirmation by further hydraulic assessment at detailed design stage.

Easements will be required to all sewers outside of the public highway. Easements to be off-set 3m either side of proposed sewer.

Proposed adopted FW pump station. Habitable buildings to be situated a minimum of 15m from the outside of the pump station wet well.

Any existing live services will require diverting to accommodate the future development, if any present.

Approximate location of existing drain/sewer. Existing manhole fully blocked, therefore it is assumed that the system has been abandoned. However prior to detailed design it will be necessary for the drain to be unblocked and the upstream system be investigated to conclude that it is in fact blocked. In the event that a live connection is present, a S185 diversion be required that may affect the development layout.

Levels require raising by at least 1m to avoid pump station requirement. Highway retaining wall and steps down to existing footpath will be required. Planning and S38 highway approval from local authority required.

FLOW CONTROL DATA

MANUFACTURER	HYDRO INTERNATIONAL
TELEPHONE	01275 878371
TYPE	Hydrobrake Optimum
FLOW/HEAD	5.0 l/s @ 2.635m
HYDRO REF	0086-5000-2635-5000
To be installed in accordance with manufacturers specifications and recommendations before the manhole cover slab is installed	

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KEY

Proposed Storm Water Manhole

Proposed Storm Water Sewer

Foul Water Manhole

Proposed Foul Water Sewer

Existing Combined Water Sewer

Existing Foul Water Sewer

Existing Surface Water Sewer

Notes

- drainage runs shown are approximate and are subject to change at detailed design stage.

- no trees to be planted within 5m of drainage.

- all levels and pipe sizes are approximate and may vary at detailed design stage. Phasing of the development will also have an impact.

- all foul drainage to be 150mmØ.

- design assumes that a gravity connection is possible based on information available. If this is not possible on adopted pumping station will be required.

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES & DETAILED DESIGN

A	TF	19.12.17	Plot 31 external works amended.	WMW	WMW
/	TF	28.11.17	Issued for approval	WMW	WMW
Rev	By	Date	Revision	Chk	Apvd

ARP

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ARP Associates is a trading division of ARP Geotechnical Ltd, a company registered in England and Wales with company number 3773313, whose registered office is at 5/6 Northwest Business Park, Servia Hill, Leeds LS6 2QH

TITLE

DRAINAGE FEASIBILITY

PROJECT

CATHERINES WALK,
BARNSELY

CLIENT

LEEDS & YORKSHIRE
HOUSING

DRAWING STATUS

PRELIMINARY

Scale

1:500 @ A1

Date

NOV 17

Drawn

TF

Chk.

WMW

Drg. No.

1315/03/SK02

Rev

A