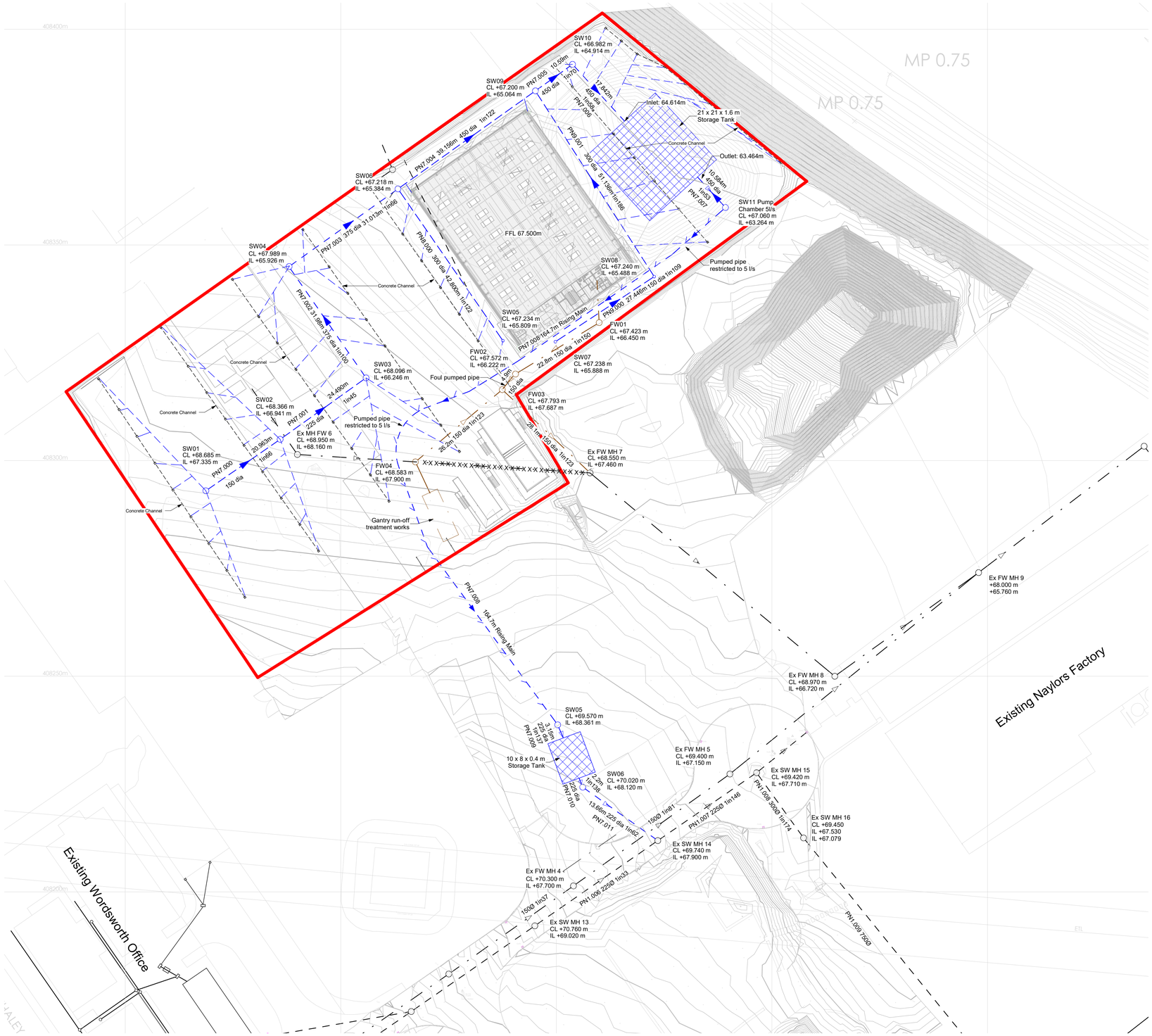

1 Drainage Layout
1 : 500

Drainage Notes

1. Underground drains for foul and surface water drainage shall be as follows:-
Twin wall plastic to BS 13476

2. Manhole covers to be as follows:-
D400 in parking areas
A15 in non-parking areas

3. Rainwater and foul outlet positions to be confirmed by Architect.

4. Drains passing through manhole walls to be built in. A flexible joint shall be provided within 150mm of the face of the wall with a further flexible joint within 600mm of the first joint.

5. All gullies, rest bends, drainage channels, rodding eyes and attachments are to be installed strictly in accordance with the manufacturers printed instructions.

6. The drainage shall be installed and tested strictly in accordance with the manufaturers printed instructions, BS 8000, BS 8301 and Local Authority byelaws.

7. All existing manhole positions, invert levels & pipe sizes are to be confirmed on site by the contractor prior to commencement of work on site and be reported to MSJ.

8. All in-situ concrete to comply with BS 8500.

9. All precast concrete items to comply with BS 5911.

10. Sulphate resisting cement (C20-DC2) and pre-cast concrete products must be used or a laboratory report provided proving that such measures are not necessary.

11. All private drainage works to comply with Approved Document `H' of the Building Regulations.

12. All gullies and rainwater outlets are to be trapped.

CDM Regulations - Drainage

1. All design work has been carried out with health & safety aspects given full consideration. Wherever possible risks have been eliminated from the design, however due to the nature of this type of work it is not possible to remove all risk.

The contractor shall provide satisfactory responses via suitable method statements as to the manner in which they propose to carry out the work and deal with any highlighted risk, in particular the following :-

- All trench excavations, regardless of depth.
- Guarding to edges of excavations to prevent injury.
- Guarding of the works outside normal working hours.
- Undermining of adjacent roads or structures.
- Confined spaces operations.
- Dealing with existing services.
- Traffic management on existing highways.
- Procedures to be followed in the event of an emergency.
- Methods of working where ground contamination may be present.
- Dealing with existing sewer flows.

The above list is by no means exhaustive, but does highlight operations that present a risk to both contractors and the general public.

KEY

Surface Water Rising Main

Surface Water Drainage

Foul Water Drainage

Existing Surface Water Drainage

Existing Foul Water Drainage

Gully

Concrete channel

Sewer to be Abandoned

Rev	Revision Description	By	Chk	Date
P2	Drainage updated to incorporate channel drains	LW	MH	22.12.21
P1	Initial Issue	LW	MH	01.12.21

SCALE @ A1	ISSUING OFFICE	MSJ PROJECT NUMBER
1 : 500	Leeds	221062

STATUS	PURPOSE OF ISSUE
S0	WORK IN PROGRESS

Melia Smith & Jones
Consulting Civil & Structural Engineers
Vinery Court
58 Cardigan Lane
Leeds LS4 2LD
0113 2306080
www.msj.co.uk

PROJECT
Wordsworth Properties Ltd.
Vehicle Maintenance Building

TITLE
Drainage Layout

CLIENT
Martin Walsh Architectural

DRAWING NUMBER	REV
221062-MSJ-ZZ-XX-DR-D-4000	P2