1. STANDARD NOTES:

This Drawing is to be read in conjunction with all relevant Architect's Engineer's and specialists' drawings and specifications. Any discrepancies from the information indicated on these drawings shall immediately be brought to the attention of the engineer.

Health & Safety :
All specific drawing notes are to be read in conjunction with the project "Information Pack" and "Site Rules".

All drainage design and installation to be carried out in accordance with the following:
BSEN 752: Drain and sewer systems outside buildings.
BSEN 12056: Gravity drainage systems inside buildings.
Building Regulations - Part H.
Sewers for Adoption - Current edition
BS 8000 Pt.14 - Workmanship on building sites.

For foul/surface water details see manhole schedule.

2. PIPEWORK NOTES:

All pipework to be vitrified clay U.N.O

All external pipes to be laid in class 'S' bedding, unless cover is less than 600mm when class 'Z' bedding should be used.

All pipes under buildings to be laid in class Y/W bedding.

All SVP and RWPs shown are indicative only, to be set out by others.

All yard gullies in external areas are indicative only, & subject to final ground levels

All gullies to be trapped and roddable.

All below ground branch pipes to main runs shall be 100mm diameter unless stated otherwise. Initial below ground 100mm diameter foul and surface water lateral pipes shall be laid no flatter than 1:40 and 1:60 respectively (unless stated otherwise).

All drainage pipes to be cast in concrete when passing under foundations.

All bends in pipework shall be long radius.

Pipe connections not to inspection chambers shall be via preformed oblique junction swept in the direction of flow.

All rainwater pipes to be trapped.

3. CONTRACTOR NOTES:

The Contractor shall allow for the temporary and permanent support and diversion works as necessary, to all existing services to the satisfaction of the puplic utilities.

The contractor shall allow for dealing with surface water run-off into excavations and from groundwater by means of sumps, pumping and de-watering as appropriate in order to keep the excavation as reasonably dry as possible during the construction of the project.

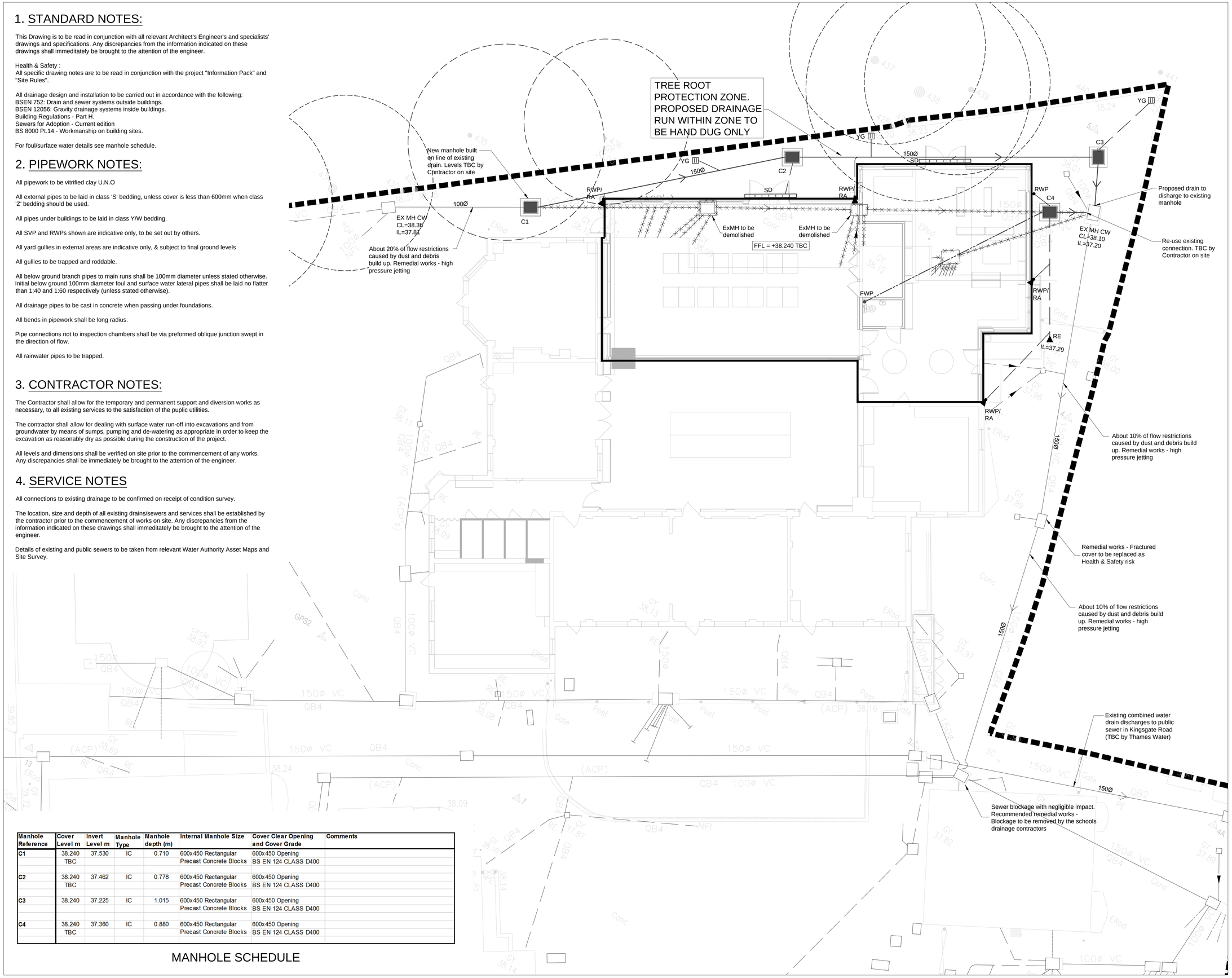
All levels and dimensions shall be verified on site prior to the commencement of any works. Any discrepancies shall be immediately be brought to the attention of the engineer.

4. SERVICE NOTES

All connections to existing drainage to be confirmed on receipt of condition survey.

The location, size and depth of all existing drains/sewers and services shall be established by the contractor prior to the commencement of works on site. Any discrepancies from the information indicated on these drawings shall immediatately be brought to the attention of the engineer.

Details of existing and public sewers to be taken from relevant Water Authority Asset Maps and Site Survey.



Manhole Reference	Cover Level m	Invert Level m	Manhole Type	Manhole depth (m)	Internal Manhole Size	Cover Clear Opening and Cover Grade	Comments
C1	38.240	37.530	IC	0.710	600x450 Rectangular	600x450 Opening	
	TBC				Precast Concrete Blocks	BS EN 124 CLASS D400	
C2	38.240	37.462	IC	0.778	600x450 Rectangular	600x450 Opening	
	TBC				Precast Concrete Blocks	BS EN 124 CLASS D400	
C3	38.240	37.225	IC	1.015	600x450 Rectangular	600x450 Opening	
					Precast Concrete Blocks	BS EN 124 CLASS D400	
C4	38.240	37.360	IC	0.880	600x450 Rectangular	600x450 Opening	
	TBC				Precast Concrete Blocks	BS EN 124 CLASS D400	

MANHOLE SCHEDULE

Notes :

1. This drawing is to be read in conjunction with all relevant Architect's, Engineer's and specialists' drawings and specifications.
2. Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check that this drawing has been printed to the intended scale this bar should be 50mm long @ A1 or 25mm long @ A3.
3. Health & Safety :
   All specific drawing notes are to be read in conjunction with the project "Information Pack" and "Site Rules".
4. Approval from Thames Water required to make new connection to Public Sewer.
5. All remedial works to be done following CCTV survey results and recommendations
6. All pipes to be 100 diameter, unless otherwise stated. Pipe material to be clay U.N.O
7. Existing RWP's/FWP locations TBC by M&E engineer.

DRAINAGE LEGEND

- New FW Drain
- New SW Drain
- New Combined Drain
- Existing SW Drain
- Existing FW Drain
- Existing Combined Sewer
- Demolished/Abandoned
- Extent of School Extension Site Boundary

DRAINAGE KEY

RWP	Rainwater Down Pipe
FWP	Foul Waste Pipe
RE	Rodding Eye
C1	Combined Water Manhole Chamber
SD	Brick Slot Channel Drain
YG	Yard Gully
	Tree Root Protection Zone
RA	Rodding Access

ABBREVIATIONS

IL	- Invert Level
CL	- Cover Level

Ver	Date	Drawn	Eng	Amendment
3	28.07.17	AH	JZ	Issued for Construction
2	02.05.17	SK	JZ	Issued for Tender
1	21.04.17	DLa	JZ	Issued for Draft Tender

KINGSGATE PRIMARY SCHOOL, NW6 4LB

BELOW GROUND DRAINAGE LAYOUT

Status
FOR CONSTRUCTION

Drawn	DLa	Eng	JZ
Scales	1:100 at A1		1:200 at A3
Drawing No		Ver	
24220.002-600		3	

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