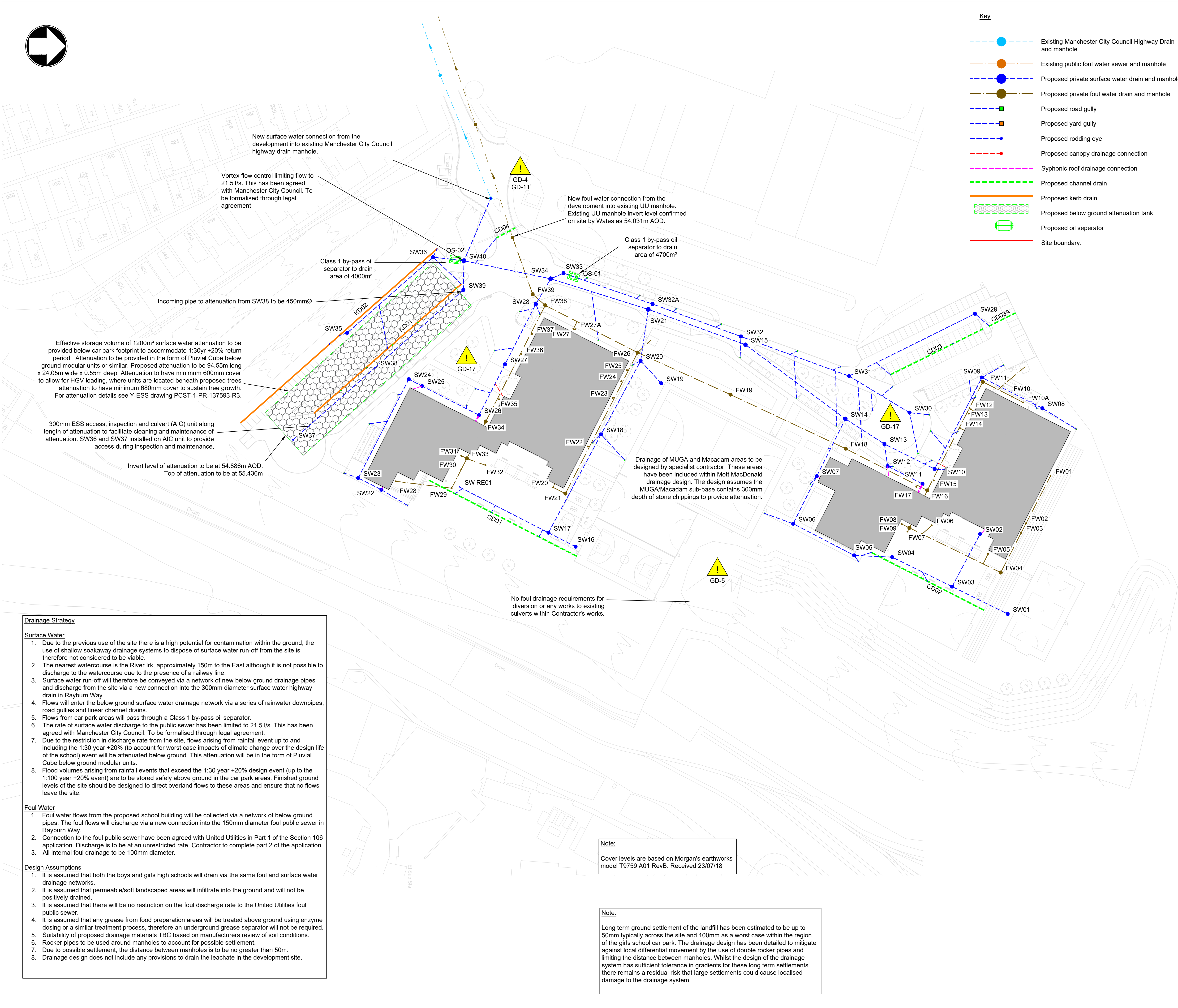




1. This drawing is to be read in conjunction with all other contract drawings and the Drainage Specification document 382220-MMD-CH-00-D-D-0004.
2. All dimensions are in millimetres unless otherwise noted.

3. All levels are given in metres Above Ordnance Datum (AOD).
4. All co-ordinates and setting out information are to the Ordnance Survey National Grid.

- ### Existing drainage infrastructure
- Existing sewerage infrastructure, ground floor penetration and flow rates advised by others. No guarantee can be given as to accuracy or completeness.
 - Invert levels, dimensions and locations of existing sewers and manholes affecting the works to be verified and assessed for suitability prior to commencement, particularly at points of connection.
 - Flows and levels in existing sewers, land drains and watercourses to be maintained throughout the contract.
 - No existing sewers to be abandoned without engineer's approval.
 - Existing sewers to be abandoned are to be 'grubbed up' or filled with PFA grout in accordance with the specification.
 - If applicable, surface water drainage infrastructure designed to accommodate temporary diversions (combined drainage) to be cleaned and made suitable for surface water only after temporary diversions are abandoned.

11. All pipes below buildings and external to buildings with less than 1.20m cover have 150mm min. concrete surround, to BS 8500, Mix ST4.
12. All remaining underground pipework to be on Class S bedding.
13. All pipework in manholes to be "soffit level" unless otherwise noted.
14. All pipework in ground below buildings (slab to be Vitrified Clay (extra strength) 150mm min. concrete surround (Mix ST4) or similar.
15. All pipework external to buildings up to and including 300mm Ø to be Vitrified Clay (extra strength) or similar.
16. All pipework external to buildings 375mm Ø and above to be Class H reinforced concrete unless otherwise noted.
17. Thermoplastics pipes and fittings (including structured wall pipes) may be substituted for the above materials provided they are acceptable to the relevant approval authority. Compliance with the specification is demonstrated, their properties are appropriate for the installed conditions, and their application is not otherwise restricted by the adopting authority. For solid wall pipes, grades appropriate for use without structural calculation shall be used. Pipes shall have internal diameters not less than as stated on the relevant drawings.
18. All branch connections to be made with swept bends in the direction of flow in the main sewer.
19. All pipes are to be solid wall pipes unless otherwise noted as perforated.
20. All manhole covers and frames to be double sealed and lockable.
21. Manhole covers and frames to be BS EN 124, sizes and grades as indicated on manhole schedule.

CDM REGULATIONS			
HAZARDS	DATE ADDED	DATE MITIGATED	RISK ASSESSMENT DATE
GD-4 Contact with existing services			
GD-5 Damage to existing culvert from piling	-	-	11.06.18
GD-11 Working with contaminated water			
GD-17 Drainage breaks due to settlement			

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CLIENT
Education Funding Agency



Tauheedul Schools
Cheetham Hill
Below Ground Drainage
General Arrangement

DRAWN	CHECKED	APPROVED
C. Chau	A. Sims	J. Heeds
DATE	SCALE	
30.09.19	1:750	
DRAWING NUMBER		REV
382220-MMD-CH-00-DR-D-0001		C11