



1. DO NOT SCALE FROM THIS DRAWING.
2. IF THIS DRAWING HAS BEEN RECEIVED ELECTRONICALLY, IT IS THE RECIPIENT'S RESPONSIBILITY TO PRINT THE DOCUMENT TO THE CORRECT SCALE.
3. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEER AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
5. THE SURFACE WATER NETWORK HAS BEEN DESIGNED TO ACCOMMODATE STORM EVENTS UP TO AND INCLUDING THE 100 YEAR PLUS 50% CLIMATE CHANGE.
6. THE PROPOSED SITE IS, BASED ON BGS RECORDS, LOCATED ABOVE A DIAMCTION TILL. THIS REDUCES THE OPPORTUNITY FOR INFILTRATION. THE NEAREST PUBLICLY AVAILABLE BOREHOLE SURVEYS WERE CONDUCTED APPROXIMATELY 200m EAST OF THE SITE AND INDICATE THE PRESENCE OF CLAY. THE SLOPED NATURE OF THE SITE MAKES INFILTRATION MORE HAZARDOUS, AS IT CAN CAUSE SLOPE INSTABILITY AND IF INFILTRATED FROM THE TOP OF THE HILL, SEEP OUT IN LOWER SECTIONS. GIVEN THE FACTORS OUTLINED ABOVE IT IS APPARENT THAT THE SITE IS UNSUITABLE FOR INFILTRATION.
7. THE LOCATIONS, COVER LEVELS AND INVERT LEVELS OF THE SURROUNDING PUBLIC SEWERS HAS BEEN ESTABLISHED BASED ON UNITED SEWER RECORDS ACQUIRED FROM UNITED UTILITIES.
8. ALL SEWERS AT TIE-IN LOCATIONS TO BE SURVEYED VIA CCTV DRAINAGE SURVEY. SURVEY TO CONFIRM: CONDITION, LOCATION, SIZE, LEVEL AND FLOW TYPE.
9. FOLLOWING THE DRAINAGE HIERARCHY:
 - 9.1. INFILTRATION HAS BEEN IDENTIFIED AS IMPRACTICAL DUE TO THE GEOLOGY AND SLOPE OF THE SITE.
 - 9.2. THE NEAREST WATERCOURSE IS AN KIRK BECK RUNNING APPROXIMATELY 200m EAST OF THE SITE. GIVEN ITS DISTANCE, DISCHARGE INTO IT WOULD BE UNDESIRABLE.
 - 9.3. A SURFACE WATER SEWER RUNS DOWN FLEMING DRIVE TO THE WEST OF THE SITE. IT IS PROPOSED TO DISCHARGE SURFACE WATER INTO THIS SEWER.
10. UNITED UTILITIES HAVE AGREED A FLOW OF 6.7L/S HOWEVER IT IS PROPOSED TO DISCHARGE SURFACE WATER AT A REDUCED 5L/S.
11. IT IS NOTED THAT UNITED UTILITIES ALSO SUGGESTED A CONNECTION WITH A SURFACE WATER SEWER ON MILL LANE (APPROXIMATELY 160m FROM THE SITE). LIDAR DATA INDICATES THIS SITS AT APPROXIMATELY 29.8mAO. THIS IS HIGHER THAN THE LOWEST POINT ON SITE (28.6m) AND AS SUCH A CONNECTION WOULD ALSO REQUIRE A PUMP.
12. SURFACE WATER MODELLING HAS BEEN UNDERTAKEN USING LATEST CLIMATE CHANGE ALLOWANCE AND SIMULATION SETTINGS RECOMMENDED WITHIN THE LATEST GUIDANCE DOCUMENTS.
13. PROPOSED CONNECTION TO UNITED UTILITIES SEWERS SUBJECT TO SECTION 106 AGREEMENTS.
14. DRAINAGE PROPOSALS MAY VARY IN DESIGN SUBJECT TO UTILITIES REQUIREMENTS AND THIRD PARTY DESIGN INFORMATION.
15. ALL SUDS FEATURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE CIRIA SUDS MANUAL (C753). PROPOSALS TO BE DESIGNED IN DETAIL AT LATER STAGE AND MAY BE SUBJECT TO CHANGE.
16. SUDS TREATMENT TRAIN TO BE MANAGED BY BOTH PERMEABLE PAVING ON DRIVES AND BY THE XERYES HYDROCHAIN WHICH INCORPORATE FILTRATION TO REMOVE POLLUTANTS.

Project:					
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Drawing title:

PRELIMINARY DRAINAGE STRATEGY

Drawing number:
101772-DCE-XX-XX-DR-C-5000

Status:	FOR PLANNING
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Design
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