

SITE PLAN (1:2500)

SCALE BAR 1:200

0 1 2 3 4 5 10 15 20

ATTENUATION NOTE

THE ENGINEER SHALL BE PROVIDED WITH A COPY OF THE DESIGN AND DRAWINGS BY THE TANK MANUFACTURER PRIOR TO THE CONTRACTOR ORDERING OR INSTALLING THE TANK TO ALLOW A REVIEW OF THE DETAILS.

PLASTIC TANKS SHALL ONLY BE INSTALLED IN PRIVATE AREAS AND NOT IMMEDIATELY ADJACENT OR WITHIN THE INFLUENCE ZONE OF A PUBLIC HIGHWAY.

WHERE TANKS ARE PROVIDED UNDER, IMMEDIATELY ADJACENT TO OR WITHIN THE INFLUENCE OF A PUBLIC HIGHWAY THEN THE TANK PROVIDED SHALL BE HAPAS APPROVED (HIGHWAY AUTHORITY PRODUCT APPROVAL SCHEME) THE TANK DESIGN AND DETAILS SHALL BE SUBMITTED TO THE ADOPTING AUTHORITY FOR THEIR APPROVAL. IT IS LIKELY THAT A CONCRETE TANK WILL BE REQUIRED.

WHERE TANKS REQUIRE ADOPTING HIGHWAY AUTHORITY APPROVALS NO TANKS SHALL BE ORDERED OR INSTALLED UNTIL FULL TECHNICAL APPROVAL HAS BEEN PROVIDED BY THE ADOPTING HIGHWAY AUTHORITY. THE CONTRACTOR SHALL ALLOW TIME WITHIN THEIR CONSTRUCTION PROGRAMME TO OBTAIN THE NECESSARY TECHNICAL APPROVALS FROM THE ADOPTING AUTHORITY.

ATTENUATION PRODUCT SPECIFICATION

A PRODUCT WITH A VOID RATIO OF 95% IS ASSUMED IN THE DESIGN OF THE ATTENUATION TANK. IF A DIFFERENT VOID RATIO IS USED THEN THE ENGINEER SHALL BE CONSULTED SO THAT A DESIGN CHECK CAN BE CARRIED OUT.

TANKS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND DETAILS.

NO TEMPORARY MOUNDING OF EARTH OR OTHER CONSTRUCTION MATERIALS SHALL BE PLACED OVER OR WITHIN INFLUENCE ZONE OF THE TANK ONCE INSTALLED.

CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WORKS TO ENSURE STABILITY OF ALL EXCAVATIONS REQUIRED TO INSTALL THE TANK SYSTEM..

ATTENUATION TANK DESIGN LOADING REQUIREMENTS.

THE FOLLOWING DESIGN LOADS SHALL BE ALLOWED IN THE DESIGN OF THE TANK.

A MINIMUM LIVE LOADING OF 10kN/m² SHALL BE ALLOWED IN THE TANK DESIGN.

A MINIMUM BACK FILL LOADING OF 25kN/m2 SHALL BE ASSUMED IN THE TANK DESIGN.

A MINIMUM LATERAL COMPRESSIVE STRENGTH OF 33kN/m2 SHALL BE ALLOWED IN THE TANK DESIGN.

CONSTRUCTION PLANT SHALL NOT BE ALLOWED TO CROSS OVER OR CROSS WITHIN THE INFLUENCE ZONE OF THE TANK UNLESS SPECIFICALLY DESIGNED FOR BY THE CONTRACTOR / TANK DESIGNER.

NO CRANES SHALL BE ALLOWED TO SET UP OVER OR WITHIN THE INFLUENCE ZONE OF THE TANK UNDER ANY CIRCUMSTANCE.

GROUND WATER.

NO GROUND WATER HAS ASSUMED IN THE DESIGN OF THE TANK.

IF GROUND WATER IS ENCOUNTERED DURING THE INSTALLATION OF THE TANK ALL WORKS SHALL STOP AND THE ENGINEER SHALL BE INFORMED AS THE TANK CONSTRUCTION DETAILS WILL REQUIRE TO BE REVIEWED. CONSTRUCTION DETAILS MAY CHANGE.

WHERE GROUND WATER IS IDENTIFIED ON SITE A FLOATATION CALCULATION WILL BE REQUIRED TO BE CARRIED OUT ON THE TANK AND WILL LIKELY AFFECT THE INSTALLATION DETAILS / REQUIREMENTS OF THE TANK.

BUILDING FOUNDATIONS.

TANKS SHALL GENERALLY BE LOCATED NO CLOSER THAN 3m TO THE NEAREST POINT OF A BUILDING OR OTHER STRUCTURE.
TANKS THAT ARE LOCATED CLOSE TO BUILDINGS OR OTHER STRUCTURES MAY INFLUENCE THE CONSTRUCTION OF THE FOUNDATIONS. THIS WILL RESULT IN THE FOUNDATIONS BEING EXCAVATED INTO ACCEPTABLE BEARING STRATA DEEPER THAN WOULD NORMALLY BE REQUIRED.

WHERE SLOPING GROUND CONDITIONS EXIST ON SITE THE ENGINEER SHALL BE CONTACTED FOR FURTHER ADVICE AND CONFIRMATION OF FOUNDATION DEPTHS.

GENERAL NOTES

A1.1 THIS DRAWING TO READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

A1.2 ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR / FABRICATOR PRIOR TO COMMENCEMENT OF WORKS.

A1.3 ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.

A1.4 ALL WORKS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE ENGINEER'S SPECIFICATIONS, RELEVANT BRITISH STANDARDS AND WHERE APPLICABLE LOCAL AUTHORITIES REQUIREMENTS.

A1.5 ALL MATERIALS TO BE MARKED WITH BSI KITE MARK WHERE APPLICABLE.

TENDER NOTES

T1.1 DRAWING BASED ON ARCHITECTS SITE LAYOUT DRAWING (1002 Rev D. 10.07.24)

T1.2 LOCATION OF RWPS AND SPS HAVE BEEN ASSUMED WHERE NONE WERE SHOWN ON ARCHITECTS DRAWINGS. ALLOW FOR DESIGN DEVELOPMENT

T1.3 ALLOW FOR DESIGN DEVELOPMENT OF EXTERNAL WORKS AND LEVELS TO CONFIRM EXTERNAL SURFACE WATER DRAINAGE REQUIREMENT.

T1.4 OUTFALL COVER AND INVERT LEVELS OF SW AND FW FOR EACH SITE MUST BE CONFIRMED PRIOR TO CONSTRUCTION. THE CONTRACTOR IS TO ALLOW FOR CONFIRMING THE PRECISE LOCATION AND DEPTH OF ALL EXISTING SEWERS PRIOR TO CARRYING OUT DIVERSION, CONNECTION OR FOUNDATION WORKS.

T1.5 SW AND FW SEWERS MAY BE SUBJECT TO S104 AND/OR S106 AGREEMENTS WITH UNITED UTILITIES. THE CONTRACTOR IS TO ALLOW FOR DESIGN DEVELOPMENT RESULTING FROM THE APPROVALS PROCESS.

T1.6 SW DISCHARGE FROM SITE HAS BEEN RESTRICTED TO GREENFIELD RUN OFF RATE IN ACCORDANCE WITH BEST PRACTICE. FORMAL APPROVAL FOR SW DISCHARGE IS REQUIRED FROM LOCAL AUTHORITY AND/OR UNITED UTILITIES. DESIGN DEVELOPMENT FOLLOWING THE OUTCOME OF THIS PROCESS IS TO BE ALLOWED FOR.

T1.7 STORAGE WILL DEPEND UPON INFILTRATION RATES AND UNITED UTILITIES DEVELOPER ENQUIRY

T1.8 PATHS ADJACENT TO BUILDING ARE ASSUMED TO FREE DRAIN TO ADJACENT LANDSCAPED AREAS. ALLOW FOR DRAINAGE TO DRIVES WHERE FLOW TO TOWARDS THE PUBLIC FOOTPATH CANNOT BE AVOIDED.

T1.9 ALLOWANCE SHOULD BE MADE FOR TRAFFIC MANAGEMENT DURING THE CONSTRUCTION OF NEW SEWERS/CONNECTIONS IN EXISTING PUBLIC ROADS.

T1.10 CONTRACTOR TO ALLOW FOR FULL WIDTH ROAD RECONSTRUCTION (PLANE AND OVERLAY OR IN ACCORDANCE WITH REQUIREMENTS OF LOCAL HIGHWAY AUTHORITY) IN EXISTING PUBLIC ROADS FOLLOWING INSTALLATION OF NEW SEWERS, DRIVEWAY CROSSINGS AND NEW ROAD JUNCTIONS.

T1.12 COVER LEVELS ARE TO BE CONFIRMED FOLLOWING DEVELOPMENT OF EXTERNAL LEVELS

T1.13 ALL UNDER SLAB FOUL DRAINAGE TO BE 1/40 UNLESS NOTED OTHERWISE.

T1.14 ALL DRAINAGE TO BE 100 DIAMETER UNLESS NOTED OTHERWISE.

T1.15 ALLOW FOR FUTURE SHOWER GULLEY CONNECTION TO FOUL DRAINAGE (NOT SHOWN)

DRAINAGE KEY

- NEW SURFACE WATER PRIVATE DRAIN
- NEW SURFACE WATER SEWER
- EX SW > EXISTING SURFACE WATER DRAIN / SEWER
- NEW FOUL WATER PRIVATE DRAIN
- NEW FOUL WATER SEWER
- EX FW > EXISTING FOUL WATER DRAIN / SEWER
- EX COM > EXISTING COMBINED DRAIN / SEWER
- EXTG DRAINAGE TO BE ABANDONED TO U.U./ L.A. APPROVAL
- NEW MANHOLE - REFER TO PLAN FOR SIZE
- NEW POLYPROPYLENE INSPECTION CHAMBER (PPIC)
- NEW MINI ACCESS CHAMBER
- EXTG MH CL: XXX IL: XXX — EXISTING MANHOLE / ACCESS CHAMBER
- RWP — RAINWATER PIPE LOCATION
- S — SOIL PIPE LOCATION
- BIG — BACK INLET GULLEY
- EX RG — EXISTING ROAD GULLEY
- RG — NEW ROAD GULLEY
- DG — NEW DRIVEWAY GULLEY
- SITE BOUNDARY
- SURFACE WATER ATTENTION
- PERMEABLE CONSTRUCTION WITH DIFFUSER BOX OUTLET

NOTE

FOR EXTENT AND DETAILS OF PERMEABLE PAVING REFER TO SUTCLIFFE DRAWING 33716-SUT-ZZ-XX-DR-C-6210 & 6211

FOR SECTIONS THROUGH CELLULAR ATTENUATION REFER TO SUTCLIFFE DRAWINGS '33716-SUT-ZZ-XX-DR-C-6205 - ATTENUATION TANK DETAILS'

NOTE: ALL RWP/S POSITIONS TO BE CONFIRMED BY ARCHITECT PRIOR TO START OF WORKS ON SITE

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T01	TENDER ISSUE	10.02.24	JW	DS

Drawing Status
S4 TECHNICAL DESIGN

Sutcliffe
Structural & Civil Engineering
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MOSSCARE ST.VINCENTS HOUSING

Project
ALDERFORD PARADE
CHEETHAM HILL
MANCHESTER

Drawing Title
PRIVATE DRAINAGE LAYOUT
SHEET 1 OF 2

Date	Drawn By	Checked By
FEB. 2025	JW	DS

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1:200	33716

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