



GENERAL PROJECT NOTES

- ANY DISCREPANCIES IN DIMENSIONS OR DETAILS ON OR BETWEEN DRAWINGS SHOULD BE DRAWN TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
- THIS DRAWING HAS BEEN DEVELOPED USING INFORMATION PROVIDED TO RAMBOLL BY A NUMBER OF THIRD PARTIES. RAMBOLL CAN ACCEPT NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SHOWN OR THIRD-PARTY INFORMATION.
- AN ADDITIONAL ALLOWANCE SHOULD BE MADE AT THIS STAGE FOR 2 NO MANHOLES AND 20m CONNECTION PIPEWORK.
- PHASING INFORMATION FOR CONSTRUCTION WORKS IS UNKNOWN AT THIS STAGE AND THE BELOW GROUND DRAINAGE DESIGN IS SUBJECT TO CHANGE SUBJECT TO RECEIPT OF THIS INFORMATION.

PROPOSED DRAINAGE DESIGN NOTES

GENERAL:

- ALL DRAINAGE WORKS CARRIED OUT IN ACCORDANCE WITH SEWERAGE SECTOR GUIDANCE APPENDIX C: DESIGN AND CONSTRUCTION GUIDANCE, BS EN 752: 2017, BUILDING REGULATIONS PART H, RELEVANT WATER AUTHORITY STANDARDS, LOCAL COUNCIL STANDARDS AND HEALTH AND SAFETY POLICIES.
- CONCRETE FOR GENERAL DRAINAGE WORKS DESIGNATED MIX GEN 3 TO BS 8500 - 1:2006, BS EN 206 - 1:2013 AND ENGINEERS' SPECIFICATION.
- WHERE BELOW GROUND PIPE JUNCTIONS CONNECT AT AN OBLIQUE ANGLE CONNECTIONS ARE TO BE INSTALLED AS PER THE OBLIQUE JUNCTION ARRANGEMENT DETAIL TO PREVENT FUTURE BLOCKAGES.
- ANY GREASE PROVISION WHICH MAY BE REQUIRED IS ASSUMED TO BE PROVIDED ABOVE GROUND.
- PIPES ARE NOT DESIGNED FOR CONSTRUCTION TRAFFIC; CONTRACTOR WILL TAKE NECESSARY PRECAUTIONS TO PROTECT PIPES DURING CONSTRUCTION. EXISTING DRAINAGE WHICH IS TO REMAIN IN THE PROPOSED WORKS TO BE PROTECTED AT ALL TIMES.
- IT IS ASSUMED THAT ALL ABOVE GROUND DRAINAGE CONNECTIONS ARE ROADABLE AND VENTED FROM ABOVE GROUND. PUBLIC HEALTH ENGINEER TO CONFIRM ABOVE GROUND VENTING.
- IT IS CURRENTLY ASSUMED THAT THERE WILL BE NO POSITIVE CONNECTIONS FOR FIREFIGHTING WATER INTO ON SITE PRIVATE DRAINAGE NETWORK OR INTO THE PUBLIC SEWER.

MANHOLES & INSPECTION CHAMBERS:

- PRECAST CONCRETE MANHOLES TO BE IN ACCORDANCE WITH BS 5911 - 3:2002, BS EN 1917:2002 AND TO BE KITEMARKED OR CE MARKED.
- POLYPROPYLENE INSPECTION CHAMBERS TO BE IN ACCORDANCE WITH BS7158 OR BS EN 13598-1 OR AGREEMENT CERTIFIED MINIMUM INTERNAL DIAMETER 450MM UNO.
- ALL INTERNAL MANHOLES TO BE CONSTRUCTED USING CLASS II ENGINEERING BRICK.
- ALL MANHOLE COVERS TO BE RECESSED TO SUIT ARCHITECTS FINISHES.

PIPE BEDDING:

- FOR PIPES WITH MORE THAN 1200mm COVER BELOW EXTERNAL GROUND LEVEL OR GREATER THAN 300mm BELOW BUILDING SLAB TO HAVE CLASS S SURROUND U.N.O IN ACCORDANCE WITH BUILDING REGULATIONS DOCUMENT H.
- FOR PIPES WITH LESS THAN 1200mm COVER TO CROWN PIPE BEDDING TO BE CLASS Z SURROUND OR PROTECTIVE COVER SLAB U.N.O IN ACCORDANCE WITH BUILDING REGULATIONS DOCUMENT H.
- ALL DRAINAGE WITH LESS THAN 300mm COVER BELOW BUILDING TO BE REINSTATED WITHIN EXISTING SLAB.

PIPEWORK:

- ALL FOUL AND COMBINED WATER PIPES TO BE VITRIFIED CLAY TO BS EN 295-1:1991/BS 65 AS APPROPRIATE, KITEMARKED, AGREEMENT CERTIFIED OR CE MARKED U.N.O.
- ALL FOUL BRANCH CONNECTIONS TO BE DN100 AT 1:40 MINIMUM GRADIENT U.N.O.

CONSULTATIONS / APPROVALS

- CONSULTATIONS REGARDING THE CHANGE IN FOUL FLOWS TO THE PUBLIC SEWER HAS NOT BEEN UNDERTAKEN TO DATE.
- ADDITIONAL FOUL FLOWS ARE EXPECTED IN THE REFURBISHMENT. IT IS CURRENTLY ASSUMED FOUL DISCHARGE WILL BE APPROVED AS UNRESTRICTED INTO THE PUBLIC SEWER.

REFERENCE DRAWINGS AND DOCUMENTS

- THE INFORMATION USED TO PRODUCE THIS DRAWING IS AS FOLLOWS. IF ANY INFORMATION WITHIN THESE DRAWINGS CHANGES THE BELOW GROUND DRAINAGE IS ALSO SUBJECT TO CHANGE:
- PROPOSED BASEMENT PLAN BY HLM (BC-HLM-01-B1-DR-A-00140)
- ABOVE GROUND DRAINAGE BY RAMBOLL (RAM-XX-00-DR-P-53400 AND RAM-XX-00-DR-P-53401)
- EXISTING DRAINAGE PLAN BY ALLEN TOD ARCHITECTURE (200546-1-217D)

COPYRIGHT RAMBOLL UK LIMITED. ALL RIGHTS RESERVED. THIS DOCUMENT IS ISSUED FOR THE PARTY WHO COMMISSIONED IT AND FOR THE SPECIFIC PURPOSES CONNECTED WITH THE PROJECT ONLY. IT SHOULD NOT BE RELIED UPON BY ANY OTHER PARTY OR USED FOR ANY OTHER PURPOSE. RAMBOLL ACCEPTS NO RESPONSIBILITY OR LIABILITY WHICH MAY ARISE FROM RELIANCE OR USE OF THIS DOCUMENT OR THE DATA CONTAINED HEREIN BY ANY OTHER PARTY OR FOR ANY OTHER PURPOSE.

Notes

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE MILLIMETRES U.N.O.
3. ALL LEVELS ARE IN METRES ABOVE ORDINANCE DATUM U.N.O.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
5. ANY DISCREPANCIES IN DIMENSIONS OR DETAILS ON OR BETWEEN DRAWINGS SHOULD BE DRAWN TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION
6. FOR GENERAL DRAINAGE NOTES AND INFORMATION USED TO PRODUCE DRAWINGS REFER TO DRAWING RAM-XX-XX-DR-D-00001
7. FOR EXISTING BELOW GROUND DRAINAGE REFER TO DRAWING SERIES RAM-XX-XX-DR-D-00010
8. FOR TYPICAL DRAINAGE DETAILS REFER TO DRAWING SERIES RAM-XX-XX-DR-D-00400

PLEASE NOTE: DRAWINGS ARE BASED ON PRE-FINAL STAGE THREE INFORMATION AND THEREFORE IS SUBJECT TO CHANGE PENDING RECEIPT OF THIS INFORMATION. CHANGES TO BE INCORPORATED AT STAGE 4.

KEY:

- --- ○ PROPOSED FOUL WATER DRAINAGE AND MANHOLE
- SG □ PROPOSED SHOWER GULLY
- SS ● PROPOSED SUB STACK
- SVP ● PROPOSED SOIL VENT PIPE
- NRV ● PROPOSED NON-RETURN VALVE
- sw --- EXISTING SURFACE WATER PIPE
- F --- EXISTING FOUL WATER PIPE
- C --- EXISTING COMBINED PIPE
- C --- EXISTING COMBINED PUBLIC SEWER
- G □ EXISTING GULLY
- IC ○ EXISTING INSPECTION CHAMBER
- RWP ○ EXISTING RAIN WATER PIPE
- SVP ○ EXISTING SOIL WATER PIPE
- □ EXISTING MANHOLE
- [---] EXISTING DRAINAGE CHANNEL
- [] END OF TRACE

P01	STAGE 3 ISSUE	16/03 2020	CO LS	LS
Rev	Description	Date	By Chk	App

PRELIMINARY

BARNSELY CIVIC



tel 01244 311855 chester@ramboll.co.uk
www.ramboll.co.uk

**PROPOSED BELOW
GROUND DRAINAGE
BASEMENT LEVEL**

Project No:	Scale (@A1):	Drawn:	Date:
1620010680	1:150	CO	MAR 21
Drawing No:	Rev:		
RAM-XX-XX-DR-D-00100	P01		