



This drawing should not be scaled. Dimensions to be verified on site.
Any discrepancies should be referred to the Engineer prior to work being put in hand.
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GENERAL NOTES

- DRAINAGE WORKS**
- Existing manhole positions, invert levels and pipe sizes are to be confirmed on site by the contractor prior to commencement of work on site and be reported to the Engineer.
 - All gravity drains are to be laid to a constant gradient between manhole chambers.
 - Gravity drains to be flexibly joined with pipework laid 'softly to stiff' unless specified otherwise.
 - All pipes up to 225mm dia to be Vitrified Clay (super strength), and pre-cast concrete pipes for diameters greater than 225mm.
 - The position of new sewers around buildings is diagrammatic only. Sewers should be located within walkways to avoid tree roots.
 - All pipes entering or leaving a manhole or structure to be constructed with flexible joints. Refer to Standard Detail Drawings for requirements.
 - Where drain pipes pass through mass concrete foundations, the pipe is to be sleeved, surrounded by polyethylene, and filled with roller pipes after site of the foundation (see Structural Engineer's drawings).
 - Pipes below ground slabs to be fully encased in concrete up to the underside of the ground slab where the depth to the pipe soffit is 800mm or less (see standard details).
 - In the areas of Public Realm and inside buildings, unless noted otherwise all manhole covers are to be recessed type to take surface finishes (any jointing / pattern to be continuous across the manhole cover).
 - The drainage shall be installed and tested strictly in accordance with the manufacturers printed instructions, BS 8000, BS 6301 and Local Authority byelaws.
 - Drains to be abandoned shall be either removed (grubbed up) or grouted up in situ in accordance with the specification.
 - Cover levels are approximate to be confirmed with the site level design (refer to relevant works information for setout and levels of all buildings and external surfaces).
- Channel Drains:**
- All channel drains to be proprietary system (eg 'Multi-drain' by Acc p/c), accepted for use by the Engineer. Channels to be installed and tested in accordance with the manufacturers recommendations with sealed joints between units. Unless stated otherwise, foundations to assume load class D400.
 - Unless noted otherwise channel drains to be:
 - Acc MultiDrain M1000 channels
 - with MultiDrain universal sump at each outlet point with rotatable trap
 - Multifunction Endcups to close all channel ends
 - incorporate Class D400 'Alac' coated Ductile Iron grating (Cheekguard type with locking feature)
 - connection to sewer to be 150mm dia.
- Private Drainage:**
- Where specified or approved by the Engineer, private drainage may be UPVC to BS 4060 and BS EN 14011.
 - The position of Rainwater and Foul Water drain points (SVPs/SFs) are shown inductively. Refer to the Architect's or M&E Engineers drawings for detailed setting out.
 - The size of the above ground rainwater downpipes and Foul Water drain points (SVPs/SFs) are specified by the relevant designer. See the Architectural or third party design plans as appropriate.
 - SVPs (by offset) to incorporate an access point on vent above ground level.
 - All private drainage works to comply with Approved Document 1F of the Building Regulations.
- Attenuation Tanks:**
- To be Acc 'Stemblock' or similar accepted for use by the Engineer. Tanks to be sized to attenuate the stated volume and be verified. Installation to be in accordance with Manufacturers drawings. Invert levels subject to confirmation of manufacturers requirements for ground cover to suit the loading requirements.

KEY (Public Sewers - United Utilities)

Public Combined Water Sewer - existing (reproduced from Record Plans)

KEY (Private Drainage)

Surface Water - proposed

Foul Water - proposed

Combined Water - proposed

RWP Rain Water Down Pipe & below ground pipe connection (1000 min, see notes)

SU Channel Drain system and 150mm Ø outlet connection from Sump Unit (SU)

FG Road Gully and 150mm Ø outlet pipe

Surface Water attenuation system

Above ground (suspended slab) channel drain and outlet to nearest structural column

RWP Above ground (suspended slab) Rain Water Down Pipe and outlet to nearest structural column

SVP SVP pipe & below ground pipe connection (1000 min, see notes)

FG Internal Floor Gully & below ground pipe connection (1000 min, see notes)

Above ground (suspended slab) Foul Water Pipe connections (inductive) with outlet to vertical soil pipe to below ground SVP

INDICATES DIRECTION OF OVERLAND FLOW IF SURFACE IS NOT DRAINED BASED ON THE PROPOSED SITE LEVELS OF THE DEVELOPMENT

PROJECTED VOLUME OF SURFACE WATER FLOODED FROM SYSTEM UNDER EXCEEDANCE / FAILURE EVENT (MODELLED 10 YEAR RETURN PERIOD WITH 1 L/S DISCHARGE RATE)

P02	20.01.23	DRAINAGE POP UPS ADDED	KHS	NF
P01	16.01.23	PLANNING ISSUE	KHS	NF
Rev	Date	Description	By	CHK

Project
ROCHDALE ROAD

Title
FLOOD EXCEEDANCE ROUTES

Client
MCGOFF CONSTRUCTION LTD


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Drawn by
PRELIMINARY

Designed By	NF	Drawn	AD	Waterman Ref	WIE
Drawn By	KS	Date	January 2023	Scale @ A3	1:200

Project	Originator	Volume	Level	Type	Rate	Number	Revision
23C002-WSL-SI-ZZ-DR-D-92003							P02