

PLEASE NOTE THAT THIS DRAWING IS ISSUED FOR INFORMATION/TENDER
PURPOSES ONLY UNTIL TECHNICAL APPROVAL HAS BEEN GRANTED.
ANY WORK UNDERTAKEN PRIOR TO TECHNICAL APPROVAL BEING GRANTED IS AT THE CLIENTS RISK.

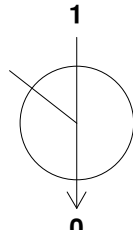
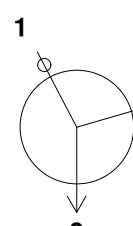
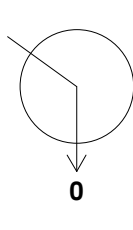


MANHOLES TO BE CONSTRUCTED IN ACCORDANCE
WITH THE DESIGN AND CONSTRUCTION GUIDANCE
- MAY 2021

MANHOLE LADDER TO BE CONSTRUCTED IN LINE
WITH DESIGN AND CONSTRUCTION GUIDE CLAUSE
DCG CLAUSE E2.37

ROCKER PIPES WILL BE USED IN LINE WITH DESIGN
AND CONSTRUCTION GUIDANCE
FOR PIPES 225-600 DIA - ROCKER PIPE EFFECTIVE
LENGTH:600
FOR PIPES 825 DIA AND ABOVE - ROCKER PIPE
EFFECTIVE LENGTH SHALL BE 1250, ROCKER PIPES
TO BE USED UNTIL THE PIPE OUTSIDE DIAMETER
EXCEEDS THE EFFECTIVE LENGTH OF THE ROCKER
PIPE

NOTE ALL CONNECTIONS TO BE MADE SOFFIT
LEVEL UNLESS INDICATED OTHERWISE

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		Other Detail				
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole	Cover	Depth & Size (mm)	Means of Access	Safety Chains	Handrails	Invert Access Steps
S104	45.941		1 2	1.003 42.938 42.038	600 1500	2700	SHALLOW ACCESS MH	D400	150 600 x 600 750 x 600 COVER SLAB OPENING	Ladder	Yes	Yes	Yes
E= 386200.733 N= 397060.329	2.403		0	1.004 42.038	1500								
S105	45.973		1 2	1.004 42.585 41.722	225 1500	3000	TYPE B FIGURE B10	D400	150 600 x 600 750 x 600 COVER SLAB OPENING	Ladder	Yes	Yes	Yes
E= 386146.611 N= 397053.535	2.751		0	41.722	1500								
S106	45.750		1	1.005 41.565	1500	2700	TYPE B FIGURE B10	D400	150 600 x 600 750 x 600 COVER SLAB OPENING	Ladder	Yes	Yes	Yes
E= 386145.828 N= 397026.137	2.685		0	1.006 41.565	1500								

- ## GENERAL

1. All adoptable sewers and associated works are to comply fully with 'Design and Construction Guidance' & Local Practices
2. All highway works to be to adoptable standards and to comply fully with the Local Authority specification.
3. All private drainage works are to comply fully with Part H of the Building Regulations
4. All existing invert levels to be checked by the Contractor at the start of works and any discrepancies notified to HRA.
Invert levels are based on topographical survey information provided by HRA.
5. All materials to bear the relevant B.S. kitemark and comply fully with the specification.
All concrete & concrete products must use Sulphate resistant cement (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur)
6. All opening notices etc. to be obtained under Highways acts etc. and to be required prior to commencement of work.
All works are to be inspected by L.A., NHBC or Relevant Water Authority as applicable.

C.D.M. REGULATIONS 2015

In line with the above regulations we are obliged to inform the Client of their responsibilities under section CDM 15/1, and residual risks that may be encountered in the construction of these works.

All design work has been carried out with Health and Safety aspects given full consideration. Wherever possible risks have been eliminated from the design, however due to the very nature of this type of work it is not possible to remove all the risks from the design.

We would also respectfully remind the Client of his obligations to take all reasonable steps in ensuring that only competent Contractors who have a valid safety policy are employed.

They should also provide satisfactory responses at tender stage as to the manner in which they will deal with the elements of risk involved in this type of work and in particular those highlighted by REFA below:-

1. Support / treatment for ALL excavation work.
2. Guarding to edges of excavations to prevent people, materials and vehicles falling into excavation.
3. Guarding of excavations outside working hours to prevent unauthorised access.
4. Undermining to adjacent roads or structures.
5. Confined space operations.
6. Dealing with existing services.
7. Traffic management on existing highways.
8. Procedure to be followed in event of accident or emergency.
9. Method of working where contaminated ground is present on site.
10. Confirmation will be required that all operatives are adequately trained, copies of relevant training certificates to be supplied.

The above list is by no means exhaustive but it does highlight operations that present a risk to contractors and the general public.
For clarification on any item please contact REFA.

[illegible]

F	S104 REVISED	AS	03/04
E	MH CD ORDS REVISED	AS	30/03
D	REVISED TO LATEST DESIGN	AS	27/03
C	MH CD ORDS ADDED	AS	23/01
B	REVISED TO LATEST DESIGN	AS	17/01
A	REVISED TO LATEST DESIGN	AS	21/12
rev	Revision details	RevBy	Date


worksafe designer
www.smasltd.com

as recognised by

 SAFETY SCHEMES IN PROCUREMENT

Drawing Stage		Drawing Status	
	Draft	Comments	Tender
●	Issued	Information	Construction
		● Approval	As Built

Clien

KELLEN HOMES

Job title

**BENNETT STREET
MANCHESTER**

Drawing title

SW MANHOLE SCHEMATICS DRG 2

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CONSULTING ENGINEERS
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DRAWING No	22122/104/4	Rev F

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