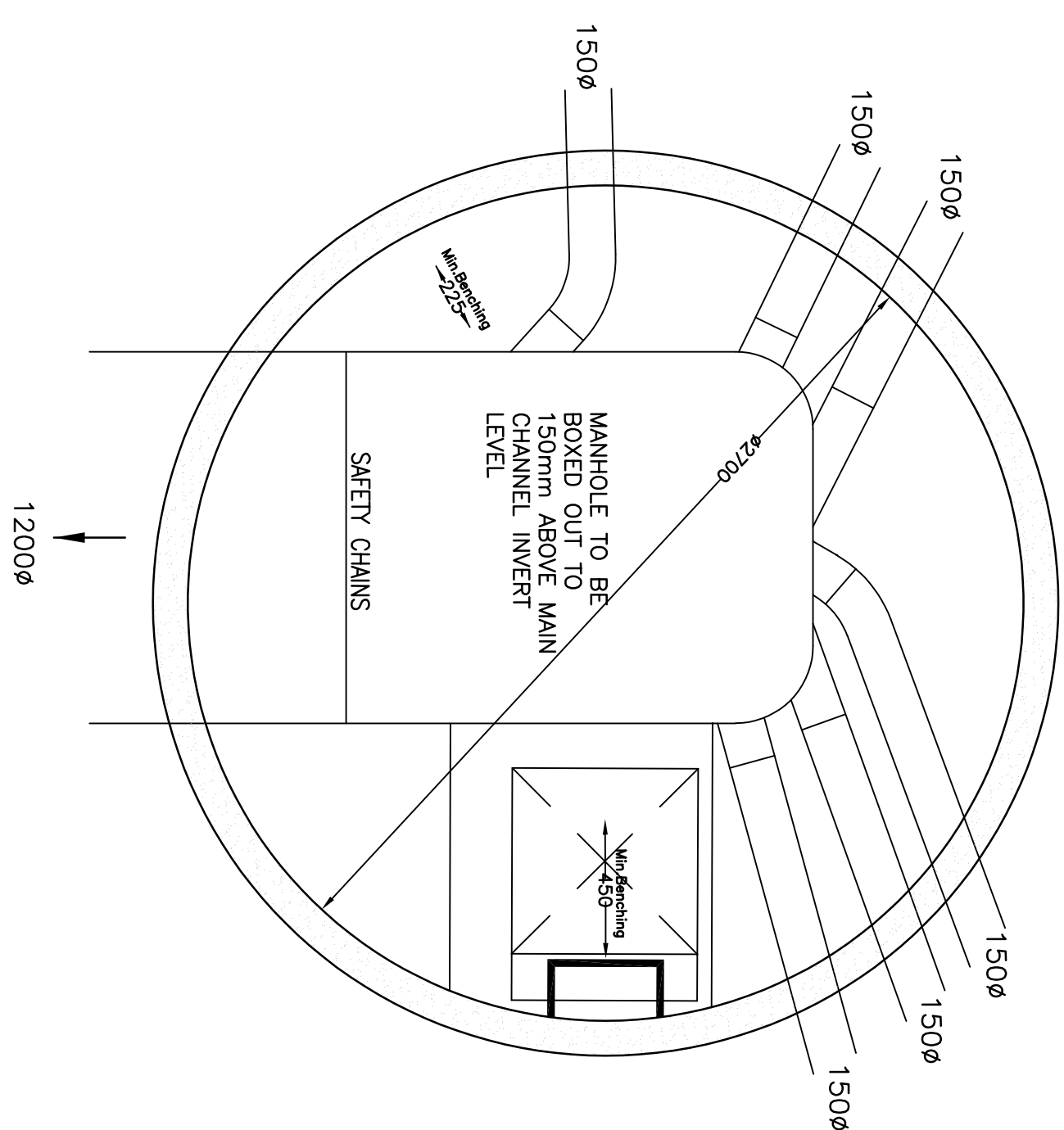
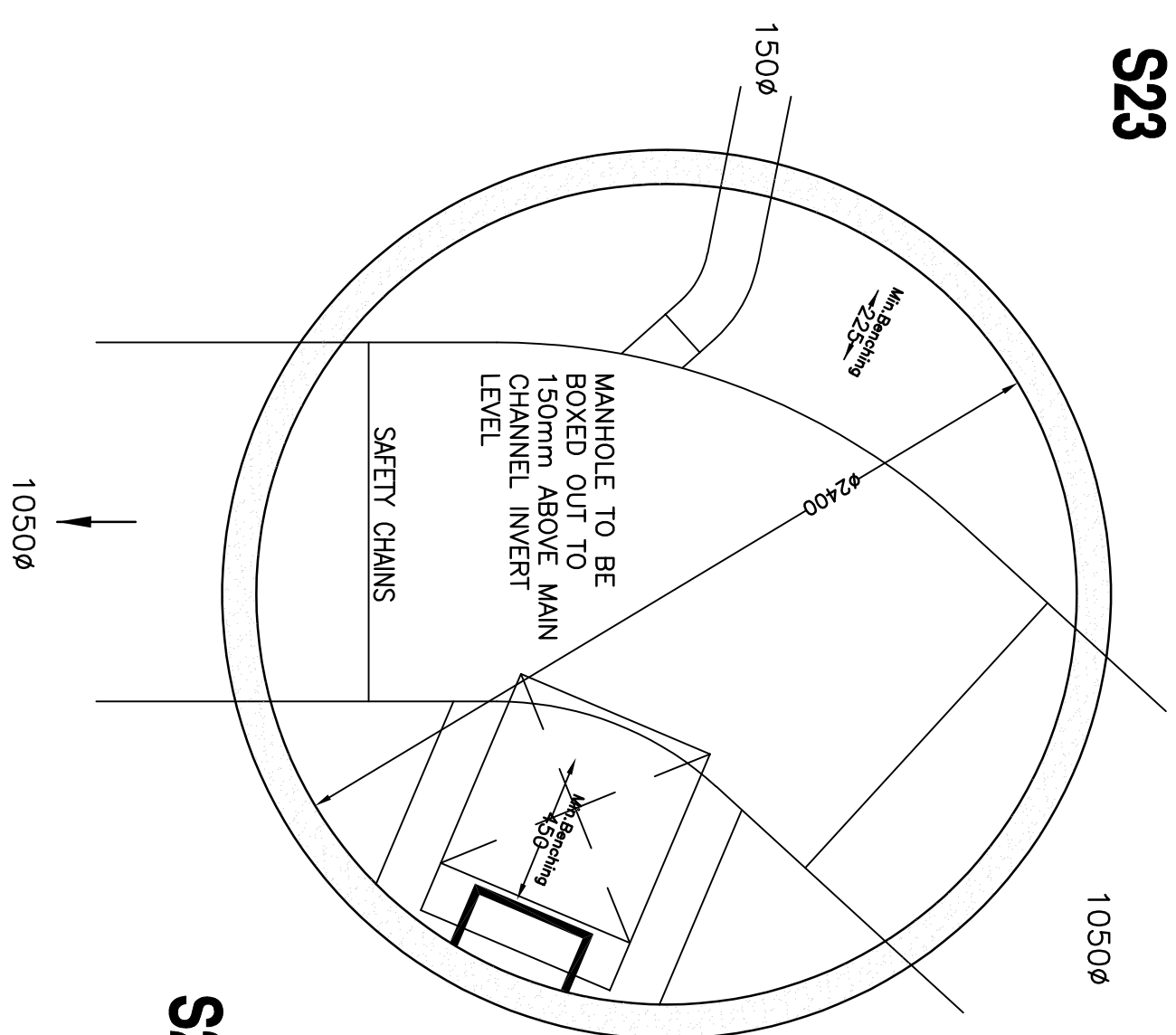
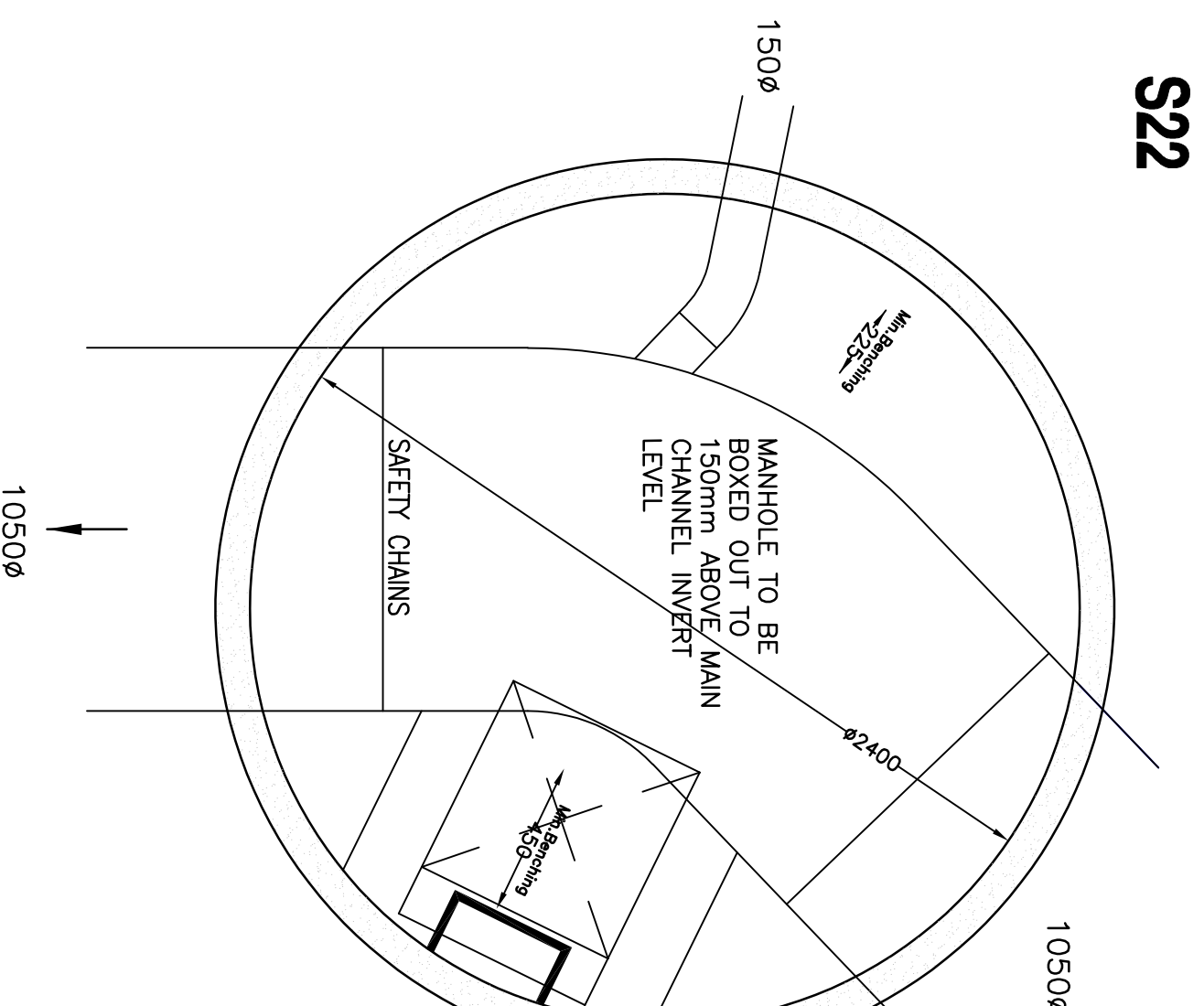
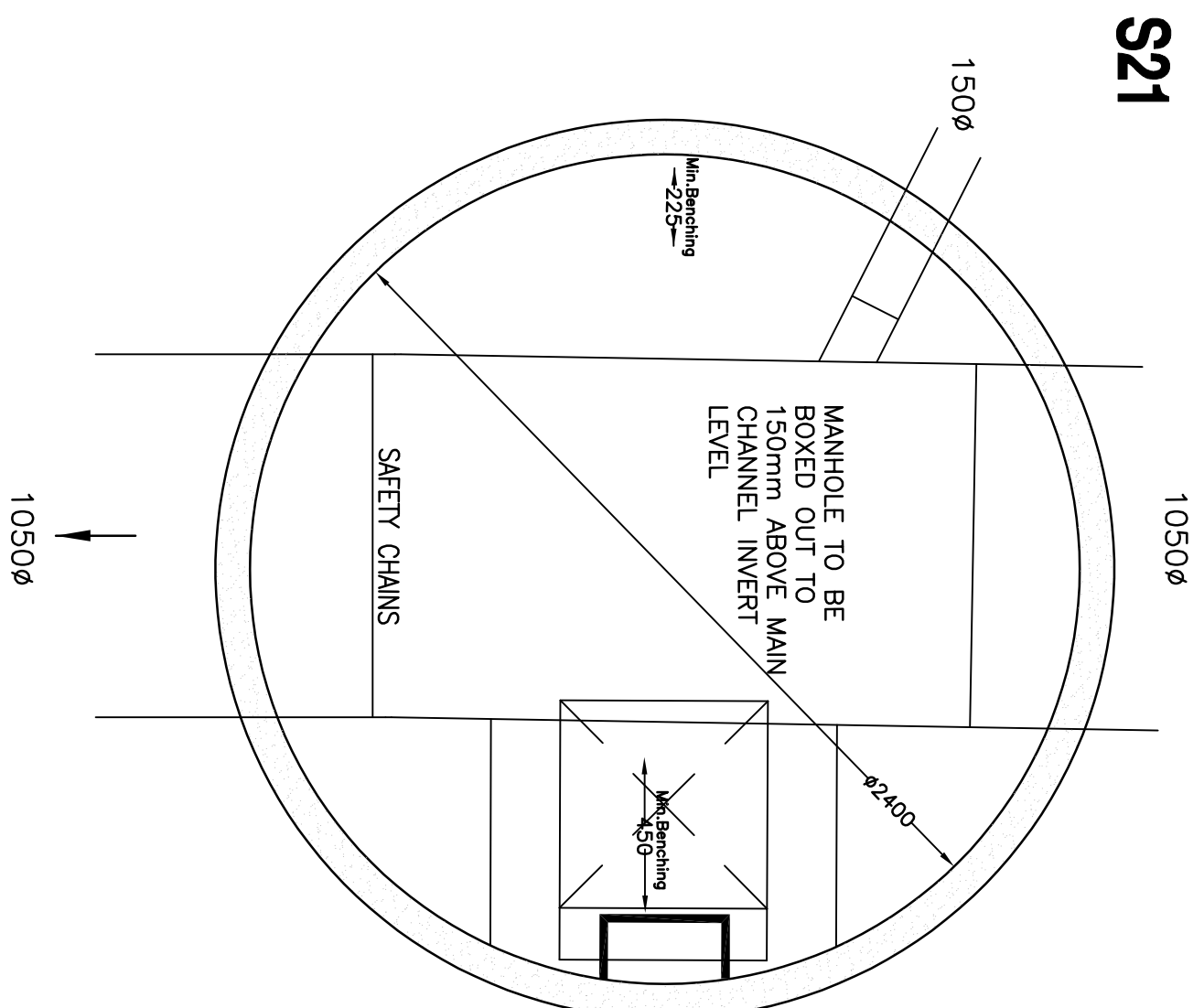
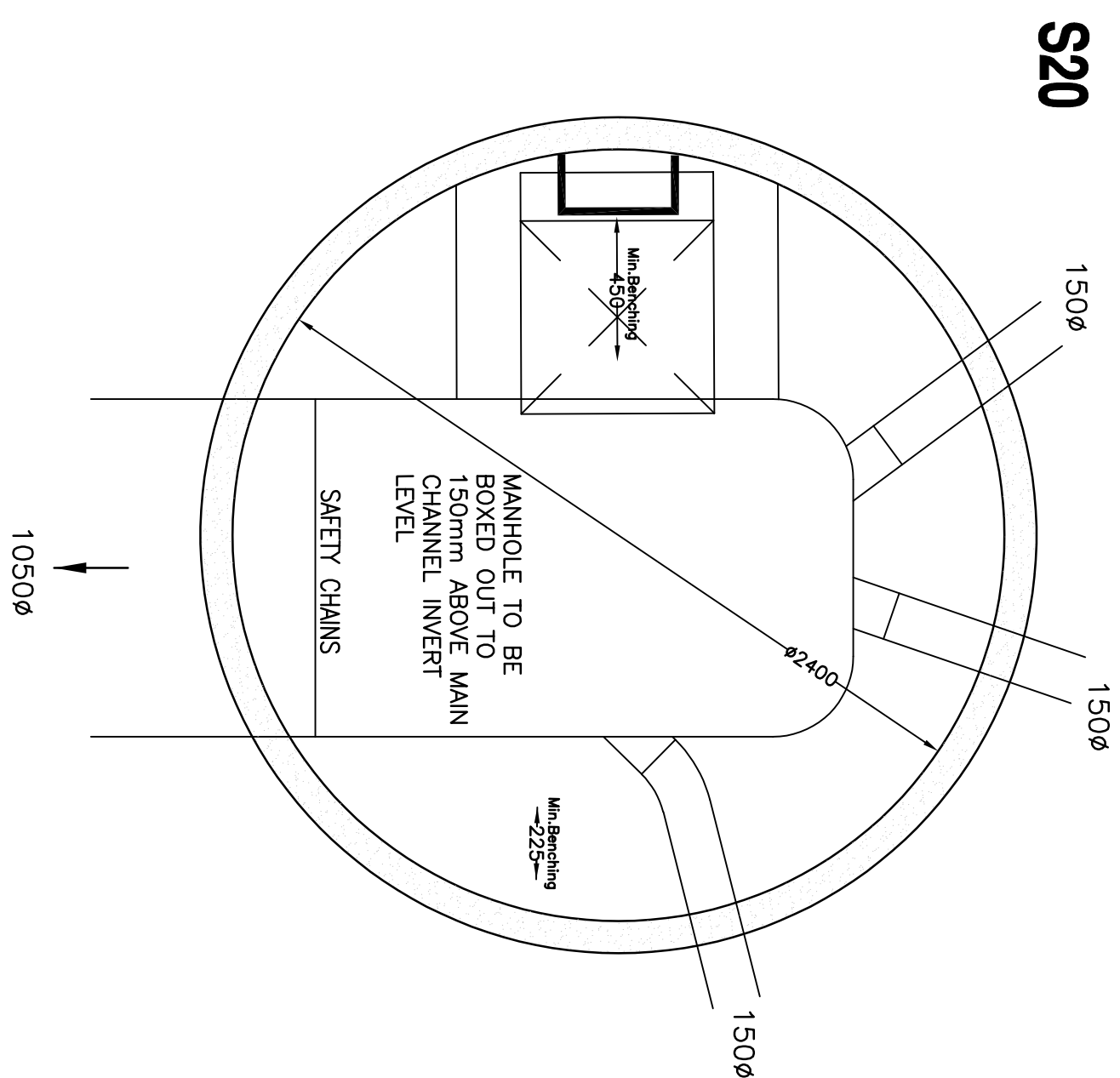
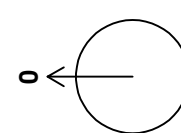
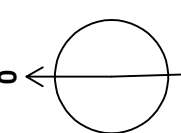
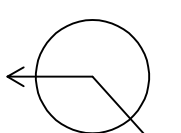
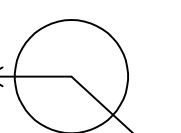
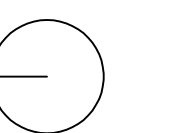




Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		Other Detail				
			Code	Inverts	Diams		Manhole	Cover	Depth & Size (mm)	Means of Access	Safety Chains	Handrails	Invert Access Steps
S20	45.525					2400	SHALLOW ACCESS MH	D400	150 675 x 675 COVER SLAB OPENING	Double Steps	Yes	No	No
	1.049		0	1.000	43.425								
E= 386291.920 N= 397019.620													
S21	45.825					2400	SHALLOW ACCESS MH	D400	150 675 x 675 COVER SLAB OPENING	Double Steps	Yes	No	No
	1.421		1	1.001	43.354								
E= 386288.564 N= 397047.815													
S22	46.106					2400	SHALLOW ACCESS MH	D400	150 675 x 675 COVER SLAB OPENING	Double Steps	Yes	No	No
	1.746		1	1.001	43.310								
E= 386286.100 N= 397065.072													
S23	46.204					2400	SHALLOW ACCESS MH	D400	150 675 x 675 COVER SLAB OPENING	Double Steps	Yes	No	No
	1.863		1	1.002	43.291								
E= 386280.115 N= 397068.397													
S24	46.308					2700	SHALLOW ACCESS MH	D400	150 675 x 675 COVER SLAB OPENING	Double Steps	Yes	No	No
	1.811		0	2.000	43.297								
E = 386259.278 N = 397142.349													

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 CLIENT'S RISK.

1. All acceptable sawers and associated works are approved by the Design and Construction Evidence and Innovation Centre.
2. All highway works to be to adoptable standards and to comply with the local authority specification.
3. Works with part of the Roadway Specification.
4. All existing invert levels to be checked by the Contractor at the start of works and any discrepancies notified to REA.
5. All trenching and excavation to be checked by independent survey.
6. All materials to bear the relevant BS/AENorm and comply with the specifications.
7. All concrete and concrete products must use Sulphate resistant cement (unless the site is adjacent to a body of water, in which case extract from salts and groundwater will not occur).
8. All opening offices etc. as required under highway acts etc. are to be obtained prior to commencement of works.
9. All works are to be inspected by L.A., NHBC or relevant Water Authority as appropriate.

In line with the above regulations we are obliged to inform the Client of their responsibilities under section OSM 15/1, and residual risks that may be encountered in the construction of their new system. 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 have therefore reminded the Client of his obligations to take all reasonable steps to ensure that only competent Contractors who have a valid safety policy are employed. They should also provide satisfactory responses at tender stage so as to the manner in which they will deal with the elements of risk involved in this type of work. In particular those highlighted by BREA below:-

1. Support / support of AEL execution work.
 2. Guarding / edges of excavations to prevent personnel and vehicles falling into excavations.
 3. Guarding of excavations outside working hours to prevent unauthorised access.
 4. Underpinning 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 confirmation on any item please contact H&PA.

	C	COVER SIZES REVISED AS SOLA COMMENTS	Rf	PASS				
	B	SEWER DESIGN REVISED FOLLOWING	Rf	DENYED				
	A	MUD CHANGING SIZE TO 60 INCHES LEVELS SET REVISID						
REV		Revision details	RevBy	Date				

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

**KELLEN HOMES
LIMITED**

Job title
**BENNETT STREET
MANCHESTER**

MANHOLE SCHEMATICS

DRG 7 - SW

45 Bridgeman Terrace
Wigan, Lancs
WN1 1TT
Tel: -(01942) 826020
Fax: -(01942) 230816

CONSULTING ENGINEERS
CIVIL STRUCTURAL

GEOTECHNICAL ENVIRONMENTAL

Date	Scale	Drawn
29.11.22	1:20	RF

DRAWING No	22122/109/7	... C
------------	-------------	-------

(C) This drawing is the property of REFA and should not be copied, used or its contents divulged without prior written consent.