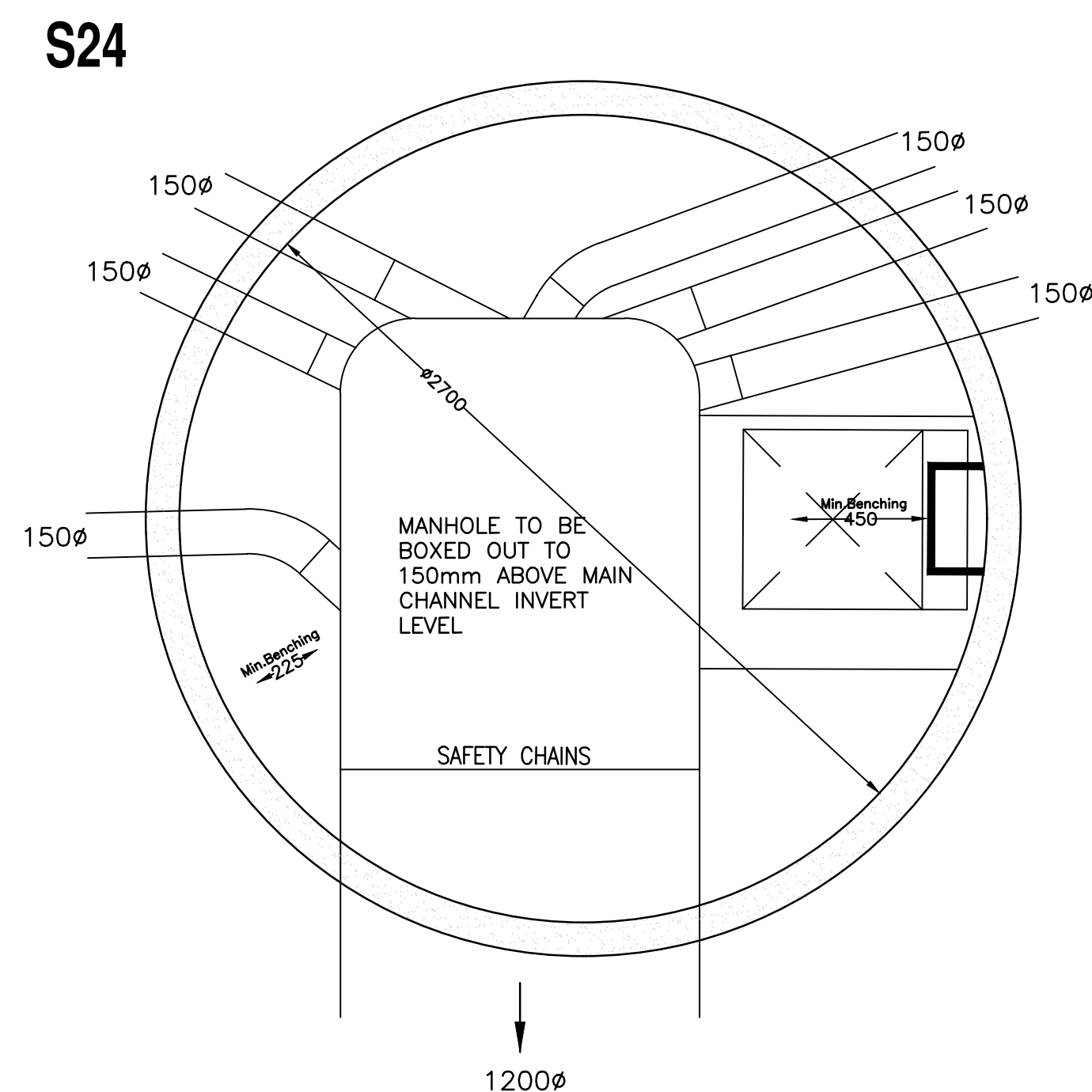
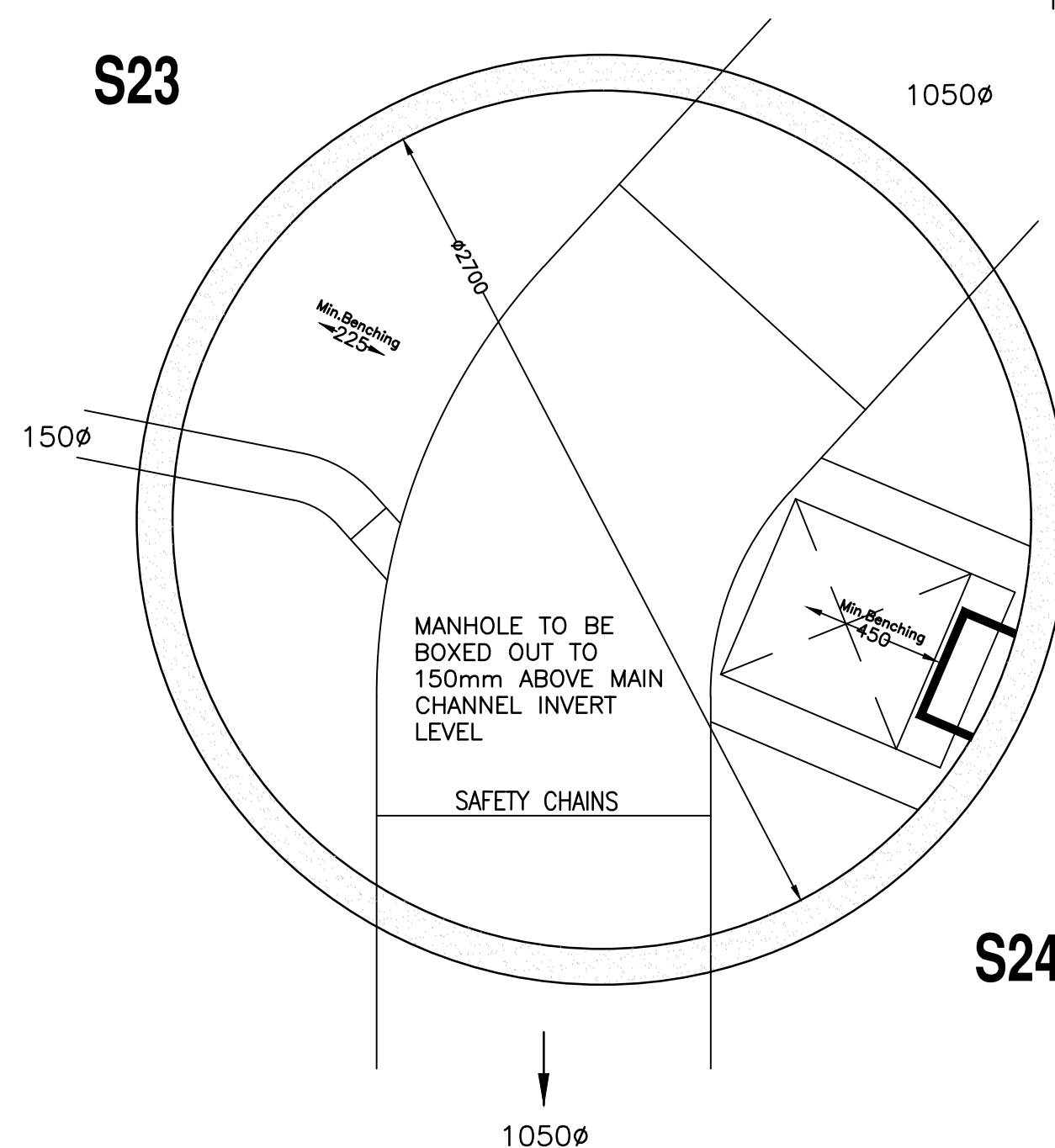
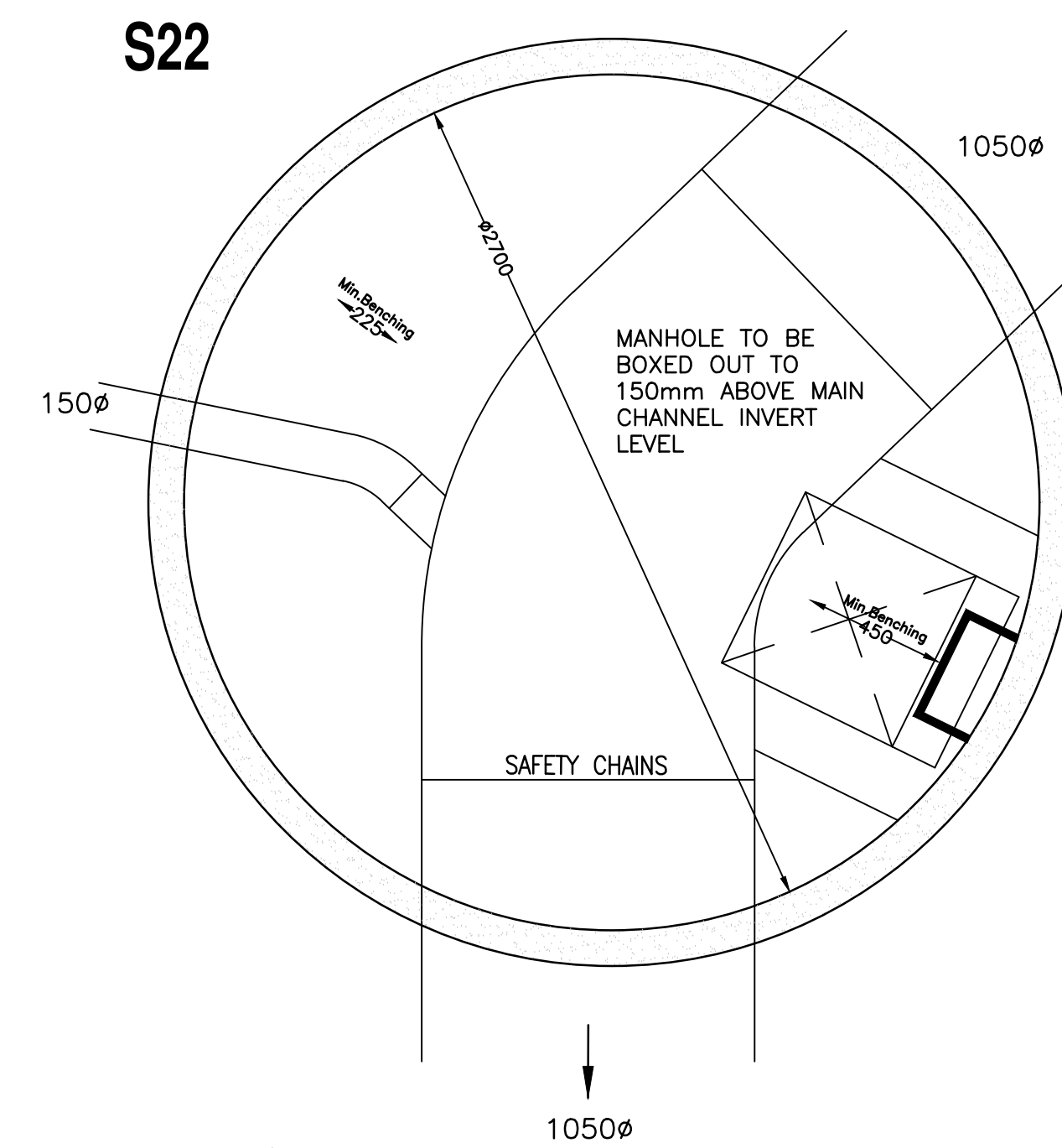
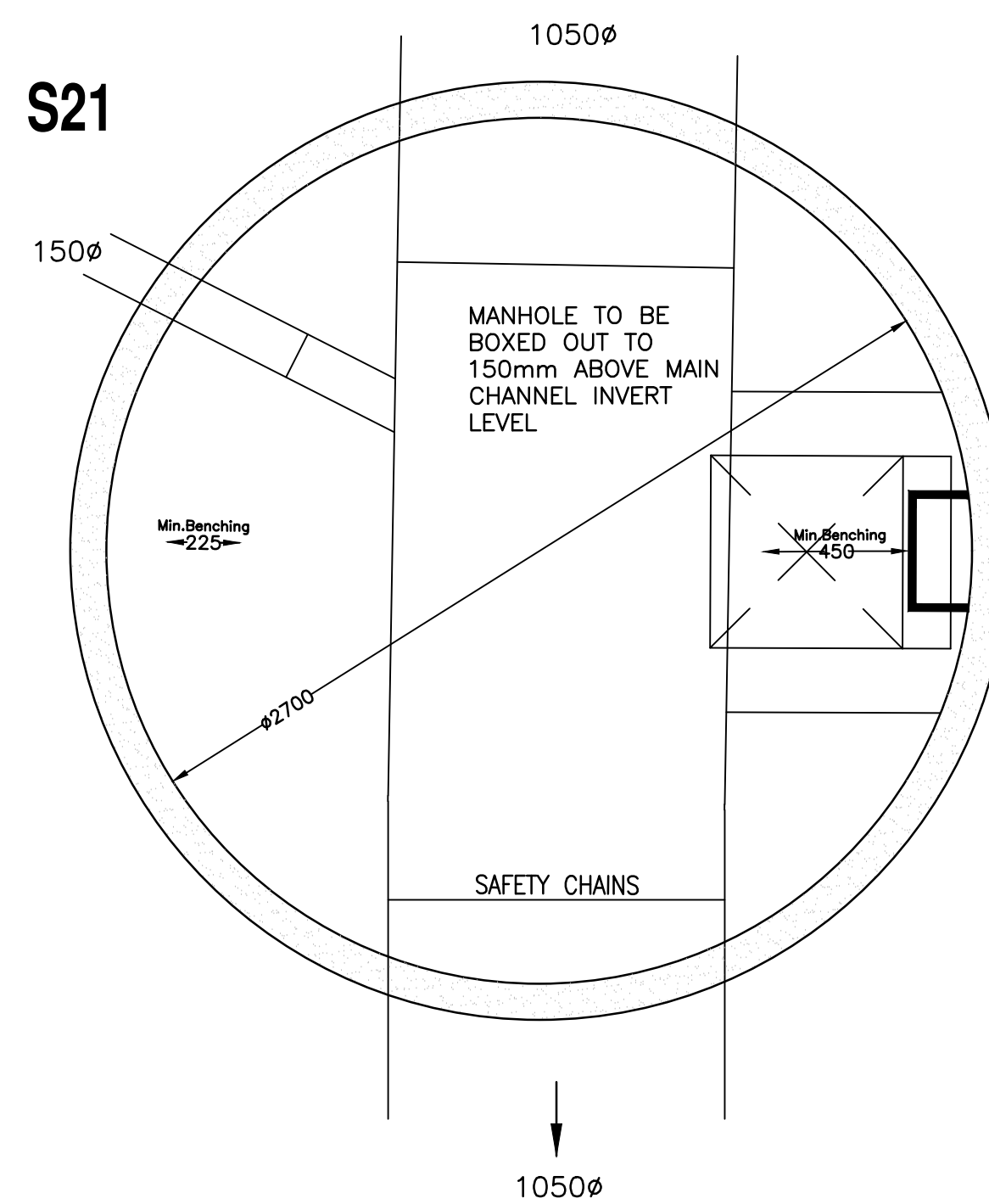
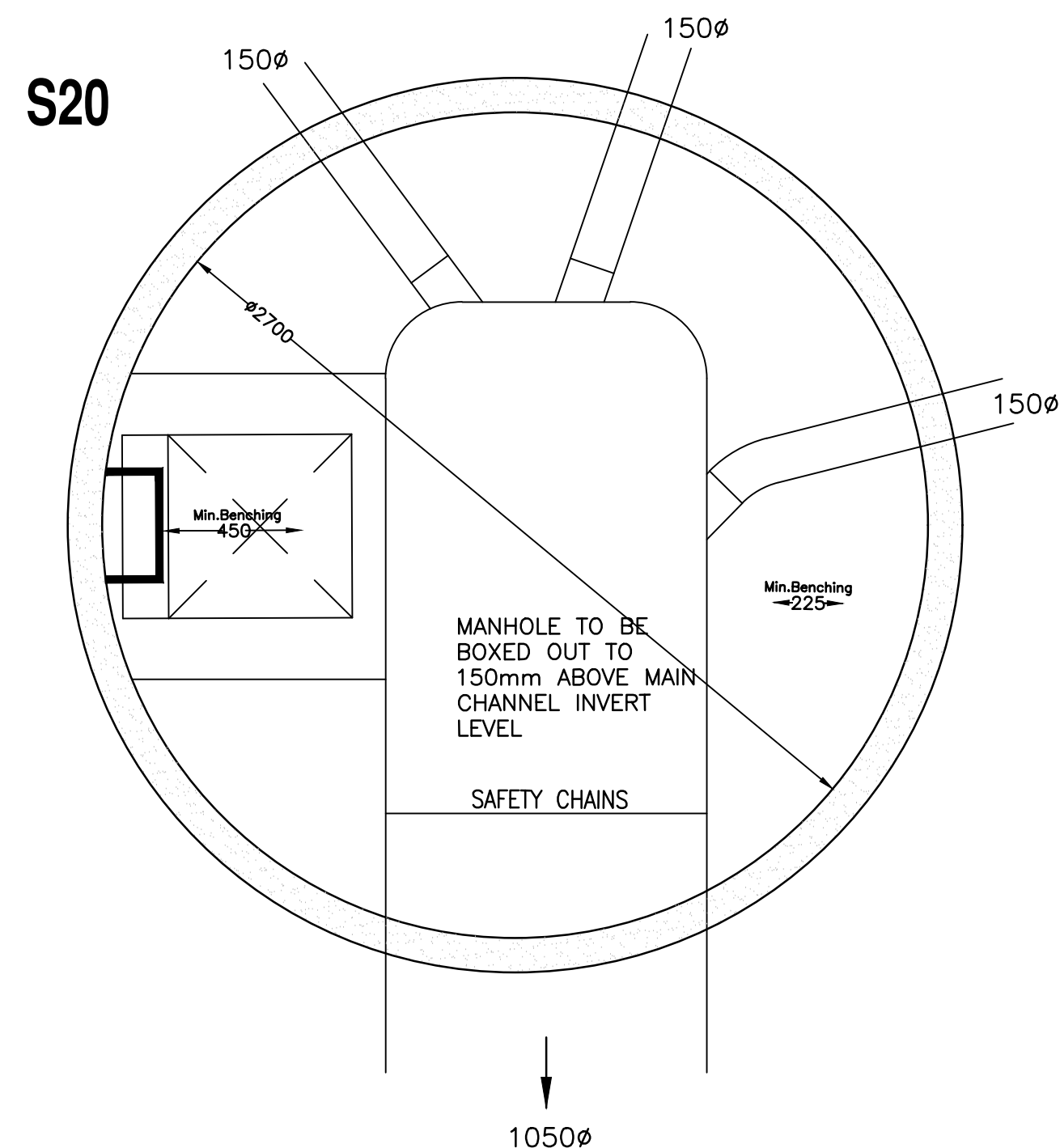
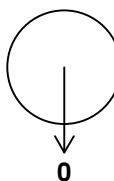
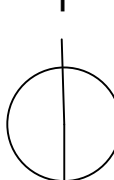
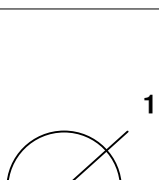
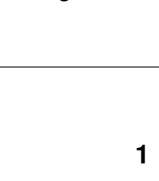
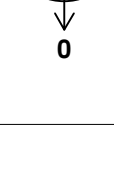




SW - NETWORK 3

Manhole Number	Cover Level		Pipe				Manhole Size	Types		Other Detail				
	Depth To Soffit		Connections	Code		Inverts		Diams	Manhole	Cover	Depth & Size (mm)	Means of Access	Safety Chains	Handrails
S20	45.525						2700	SHALLOW ACCESS MH	D400	150 675 x 675	Double Steps	Yes	No	No
E= 386292.002 N= 397019.629	1.049		0	1.000	43.426	1050				675 x 675 COVER SLAB OPENING				
S21	45.825		1	1.000	43.354	1050	2700	SHALLOW ACCESS MH	D400	150 675 x 675	Double Steps	Yes	No	No
E= 386288.719 N= 397047.846	1.421		0	1.001	43.354	1050				675 x 675 COVER SLAB OPENING				
S22	46.106		1	1.001	43.310	1050	2700	SHALLOW ACCESS MH	D400	150 675 x 675	Double Steps	Yes	No	No
E= 386286.253 N= 397065.100	1.746		0	1.002	43.310	1050				675 x 675 COVER SLAB OPENING				
S23	46.204		1	1.002	43.291	1050	2700	SHALLOW ACCESS MH	D400	150 675 x 675	Double Steps	Yes	No	No
E= 386280.152 N= 397069.437	1.863		0	1.003	43.291	1050				675 x 675 COVER SLAB OPENING				
S24	46.308						2700	SHALLOW ACCESS MH	D400	150 675 x 675	Double Steps	Yes	No	No
E= 386259.278 N= 397142.349	1.811		0	2.000	43.297	1200				675 x 675 COVER SLAB OPENING				

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

NOTE ALL CONNECTIONS TO BE MADE
SOFFIT LEVEL UNLESS INDICATED
OTHERWISE

1. **GENERAL**
2. All adoptable sewers and associated works are to comply fully with "Design and Construction Guidance" & Local Practices
3. All highway works to be to adoptable standards and to comply fully with the Local Authority specification.
4. All private drainage works are to comply fully with part H of the Building Regulations
5. All existing invert levels to be checked by the Contractor at the start of works and any discrepancies notified to REF
6. All works are based on topographical survey information provided by others.
7. All materials to bear the relevant B.S. Kitemark and comply fully with the specifications.
8. All concrete or concrete structures must use Sulphate resistant cement (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur)
9. All opening notices etc. as required under highways acts etc. are to be obtained prior to commencement of works.
10. All works are to be inspected by LA, 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. The work to be carried out by the Contractor 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. The Client also occasionally 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 manage the various 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 and 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]

D	S20, S21, S22, S23 INCREASED TO 2.7m	RW	13.07
C	COVER SIZES REVISED AS S104 COMMENTS	RF	25.5
B	SEWER DESIGN REVISED FOLLOWING UPDATED EXISTING SEWER INFORMATION	RF	06.04
A	MINOR CHANGES TO S22, S23 COVER LEVELS. S24 REVISED.	RF	20.01

rev	Revision details	Rev.By	Date
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Drawing Stage		Drawing Status	
☐	Draft	☐	Tender
☒	Issued	☐	Construction
☐		☒	As Built

Client
KELLEN HOMES

LIMITED

Job title

BENNETT STREET

**BENNETT STREET
MANCHESTER**

Drawing title

MANHOLE SCHEMATICS
DRG 7 - SW

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CONSULTING ENGINEERS

CONSULTING ENGINEERS CIVIL STRUCTURAL GEOTECHNICAL ENVIRONMENTAL		
Date 29.11.22	Scale 1:20	Drawn RF

DRAWING No	22122/109/7	Rev D
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