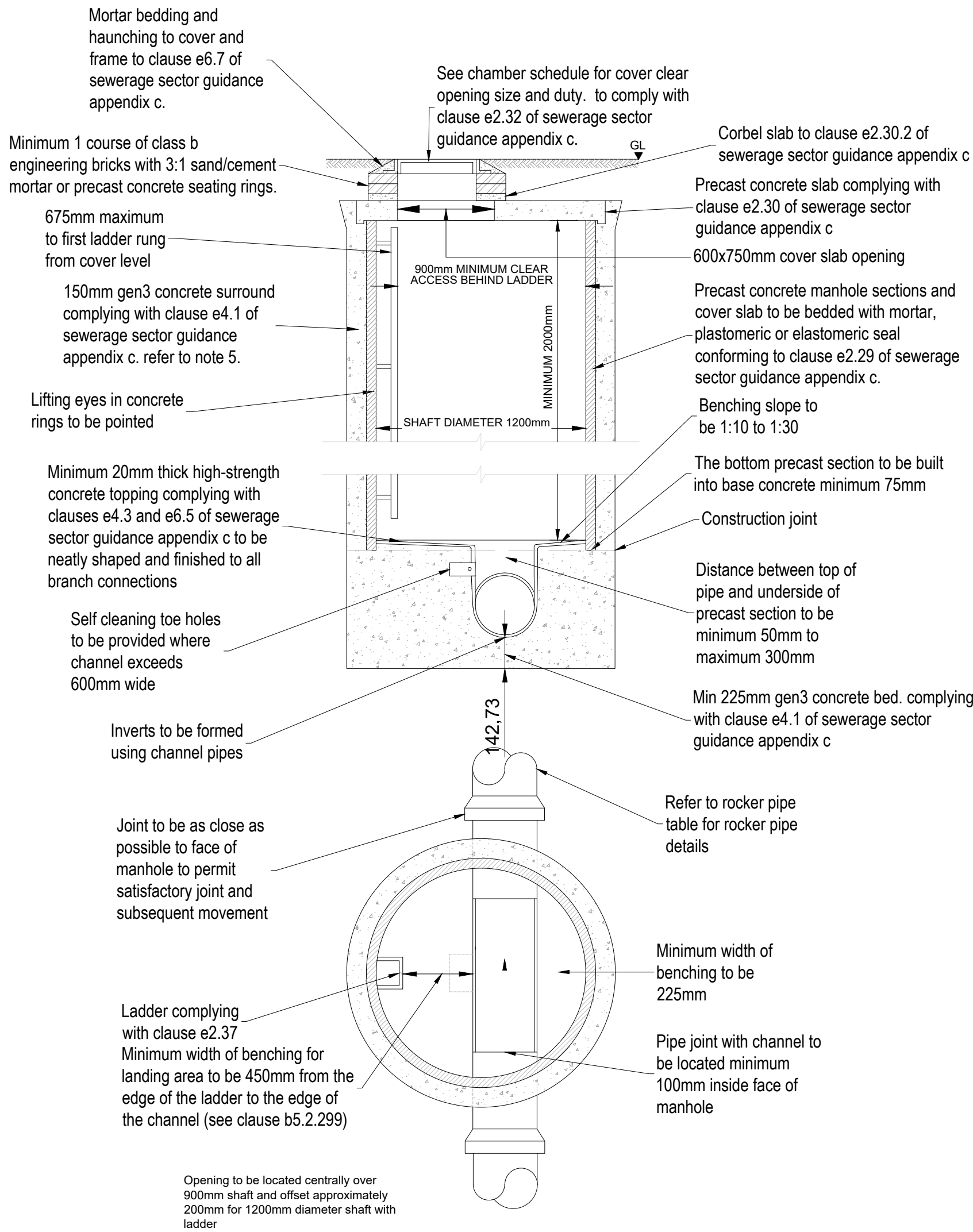
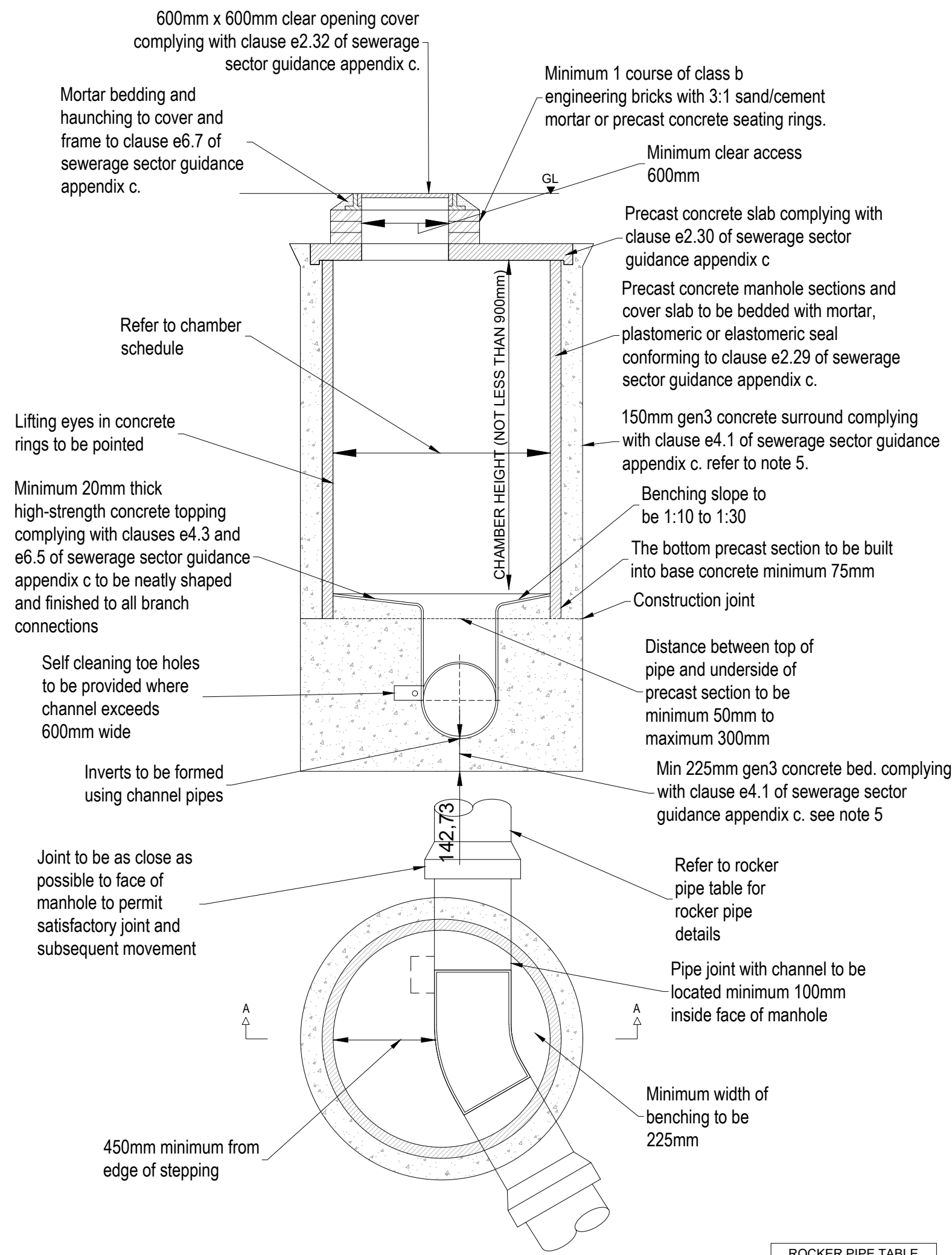




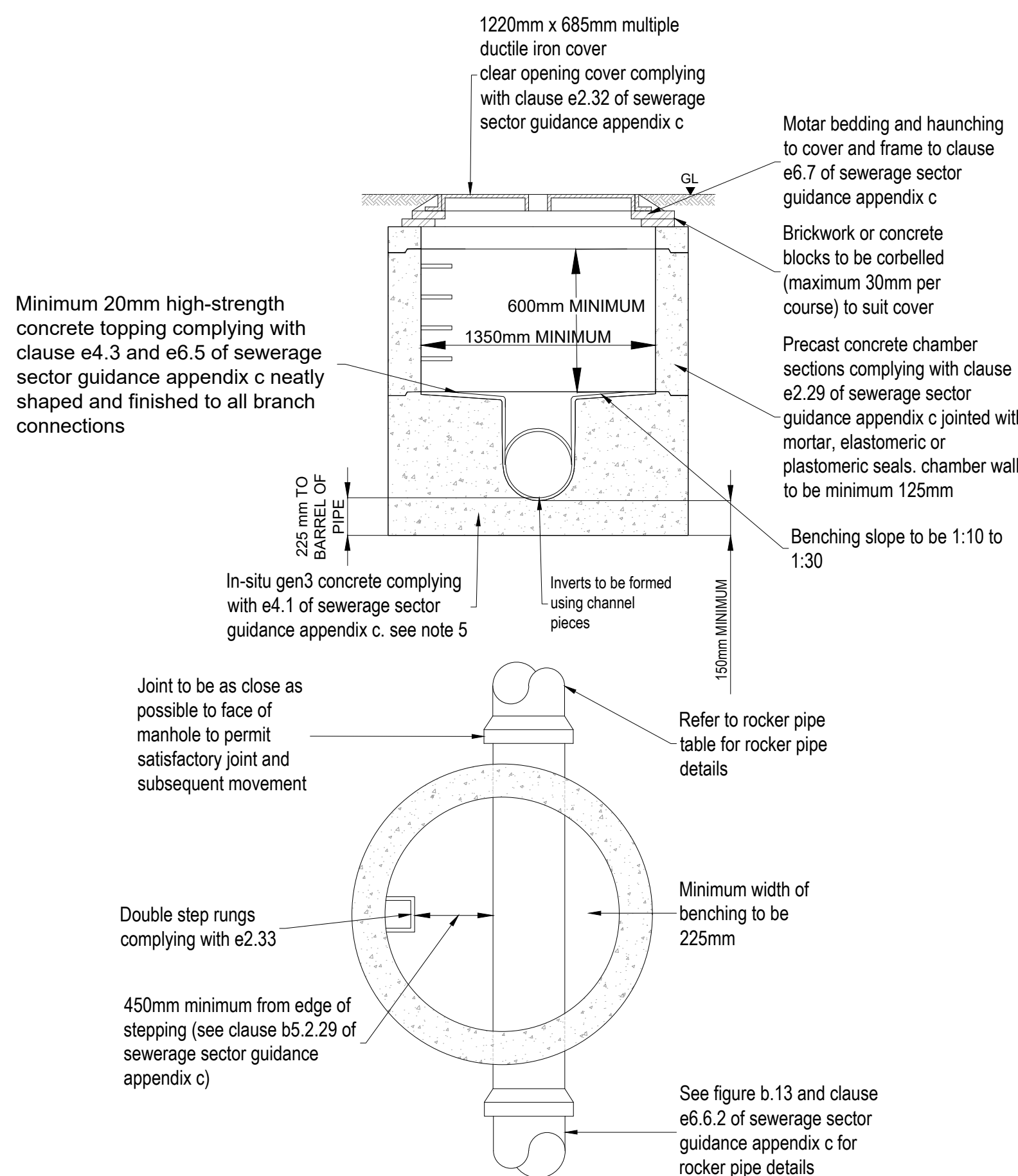
Typical Manhole Detail - Type A

Depth from cover level to soffit of pipe 3.0m to 6.0m



Typical Manhole Detail - Type B

Depth from cover level to soffit of pipe up to 3.0m



Typical Manhole Detail - Type C

Depth from cover level to soffit of pipe less than 1.5m. maximum pipe size 450mm diameter rigid material construction

ROCKER PIPE TABLE	
PIPE DIA.	ROCKER PIPE LENGTH
≤600mm	0.6m
675-750mm	1.0m
>825mm	1.25m

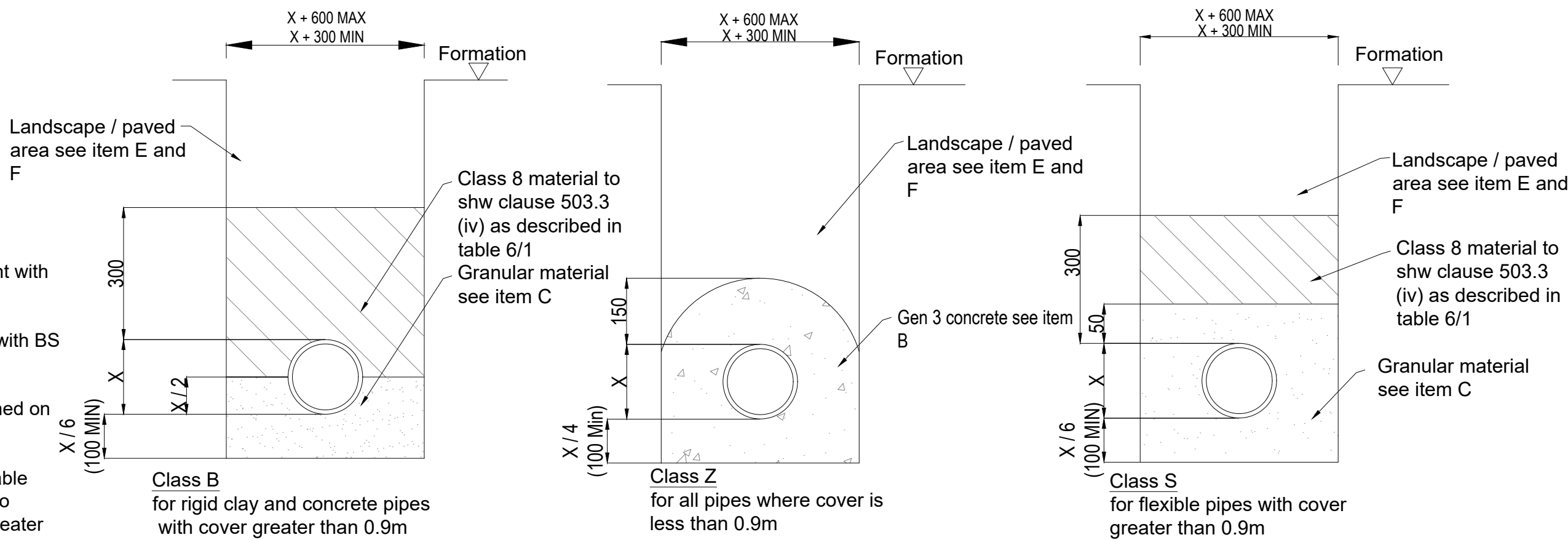
ROCKER PIPE TABLE	
PIPE DIA.	ROCKER PIPE LENGTH
≤600mm	0.6m
675-750mm	1.0m
>825mm	1.25m

ROCKER PIPE TABLE	
PIPE DIA.	ROCKER PIPE LENGTH
≤600mm	0.6m
675-750mm	1.0m
>825mm	1.25m

Bedding Notes Details:

Items

- Dimension x is the external diameter of the pipe work.
- Concrete mix gen 3 in accordance with bs en 8500. Concrete surround divided with 25mm thick compressible board at each joint. Pipe to be protected from ingress of concrete by wrapping joint with polythene sheet and adhesive tape
- Granular bedding material shall consist of natural and/or recycled coarse aggregate complying with BS EN 13242 to the grading indicated in grading table.
- Selected excavated material, free from vegetable matter, rubbish, frozen soil and material retained on a 40mm sieve compacted by hand in a maximum of 100mm layers.
- Landscape areas: backfill material in landscape areas shall consist of uniform, readily compactable material, free from vegetable matter, rubbish, frozen soil and material, or materials susceptible to spontaneous combustion, and excluding clay of liquid limit greater than 80 and or plactic limit greater than 55 and materials of excessively high moisture content.
- Paved areas: backfill in paved areas shall be suitable granular material (i.e. 6f).



MCHW - Pipe Bedding Details

For pipes with an internal diameter less than 900mm

Normal Dia of Pipe (mm)	Aggregate Size (mm)
100	All in 0-10
Over 100 to 150	All in 0-10
Over 150 to 500	All in 0-10 OR 0-20
Over 500	All in 0-10 Or 0-20 Or 0-40

Aggregate grading for pipe bedding in accordance with BS EN 13242

NOTES

- SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
- ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION GUIDANCE AND WHERE APPLICABLE UNITED UTILITIES DETAILS
- THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPATABLE HIGHWAYS SHALL BE 150mm
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND DIG AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CDM REGULATIONS AT ALL TIMES
- THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES
- EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES
- ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES
- ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. 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 TO WITHSTAND A CLASS
- ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A. NHBC OR THE NETWORK OPERATOR AS APPLICABLE.
- WHERE "ULTRA RIB" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPATABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH-PERFORMANCE PIPE ASSOCIATION.
- A CLASS S BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1m OF HIGHWAY SHALL AS DIRECTED BY THE HIGHWAY AUTHORITY BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL. 4.3.4.
- SLAB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE
- DOMESTIC DRAINAGE SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H. 110mm U.P.V.C. PIPES LAID TO THE FOLLOWING MINIMUM FALLS UNLESS OTHERWISE SHOWN.

	FOUL	S.W.
HEAD RUN	1 IN 40	1 IN 60
ELSEWHERE	1 IN 80	1 IN 100
- ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE
- MINIMUM COVER TO DRAINAGE SOFFIT LEVEL;

LANDSCAPING	TRAFFICKED AREAS	HIGHWAYS
0.600m	0.900m	1.200m

 - CLASS 'S' BEDDING AND SURROUND TO BE USED WHERE MINIMUM COVER IS ACHIEVED.
 - WHERE MINIMUM COVER IS NOT ACHIEVED CLASS 'Z' BEDDING AND SURROUND (CONCRETE ENCASEMENT) IS TO BE USED.

REVISIONS

REV	DESCRIPTION	DATE	BY
A	FIRST ISSUE FOR APPROVAL	18.12.24	SK

SCP
an **RSK** company

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Client Name:
LIDL

Project Title:
**LIDL CHORLTON,
DETAILED DRAINAGE DESIGN**

Drawing Title:
**DRAINAGE DETAILS
SHEET 1 OF 2**

Date:	18.12.2024	Drawn By:	SK
Scale:	1:20 @ A1	Checked:	IA
Status:	DESIGN	Approved:	TM

Drawing No.	Rev.
SCP-240435-0500-140	A