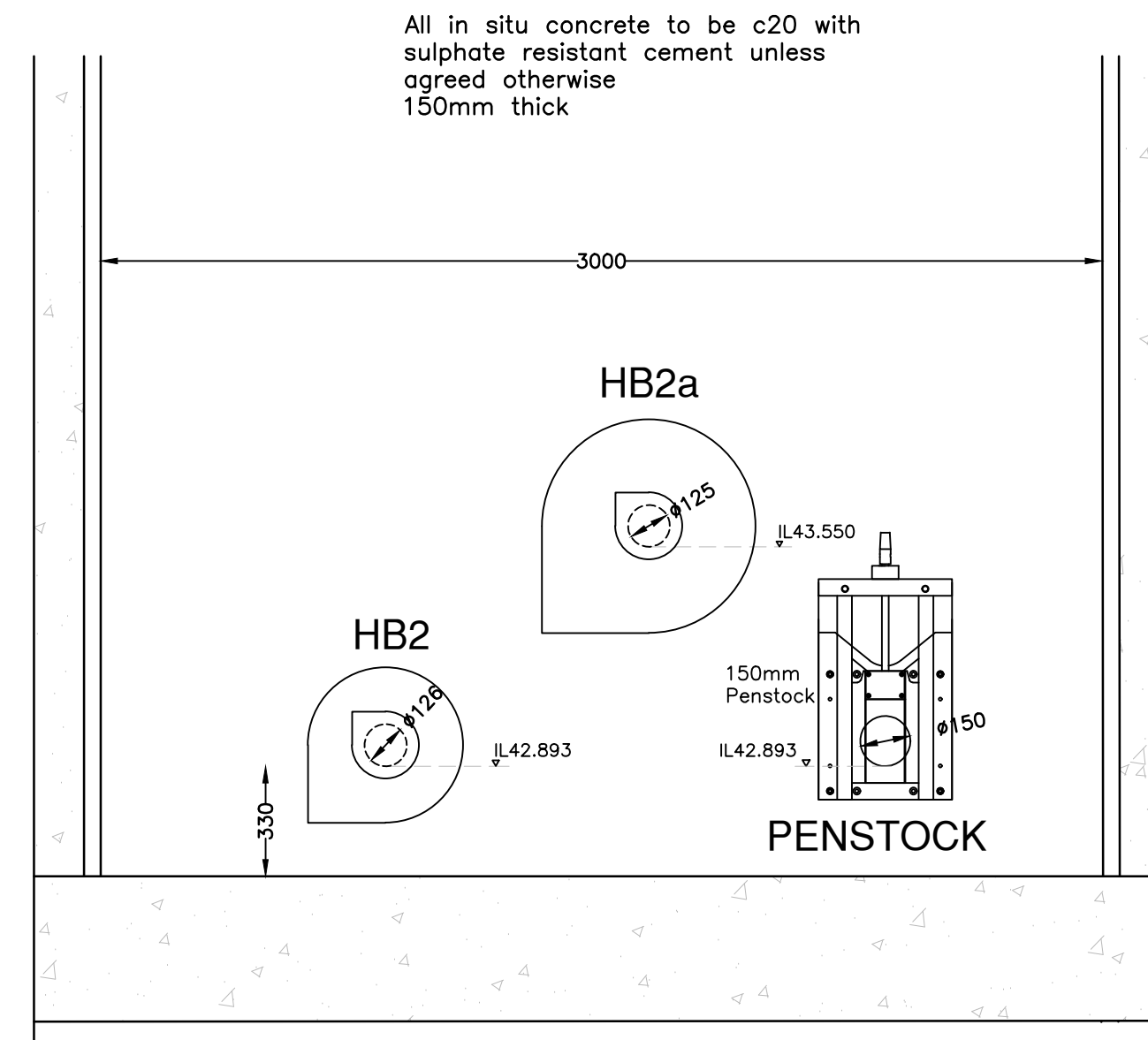
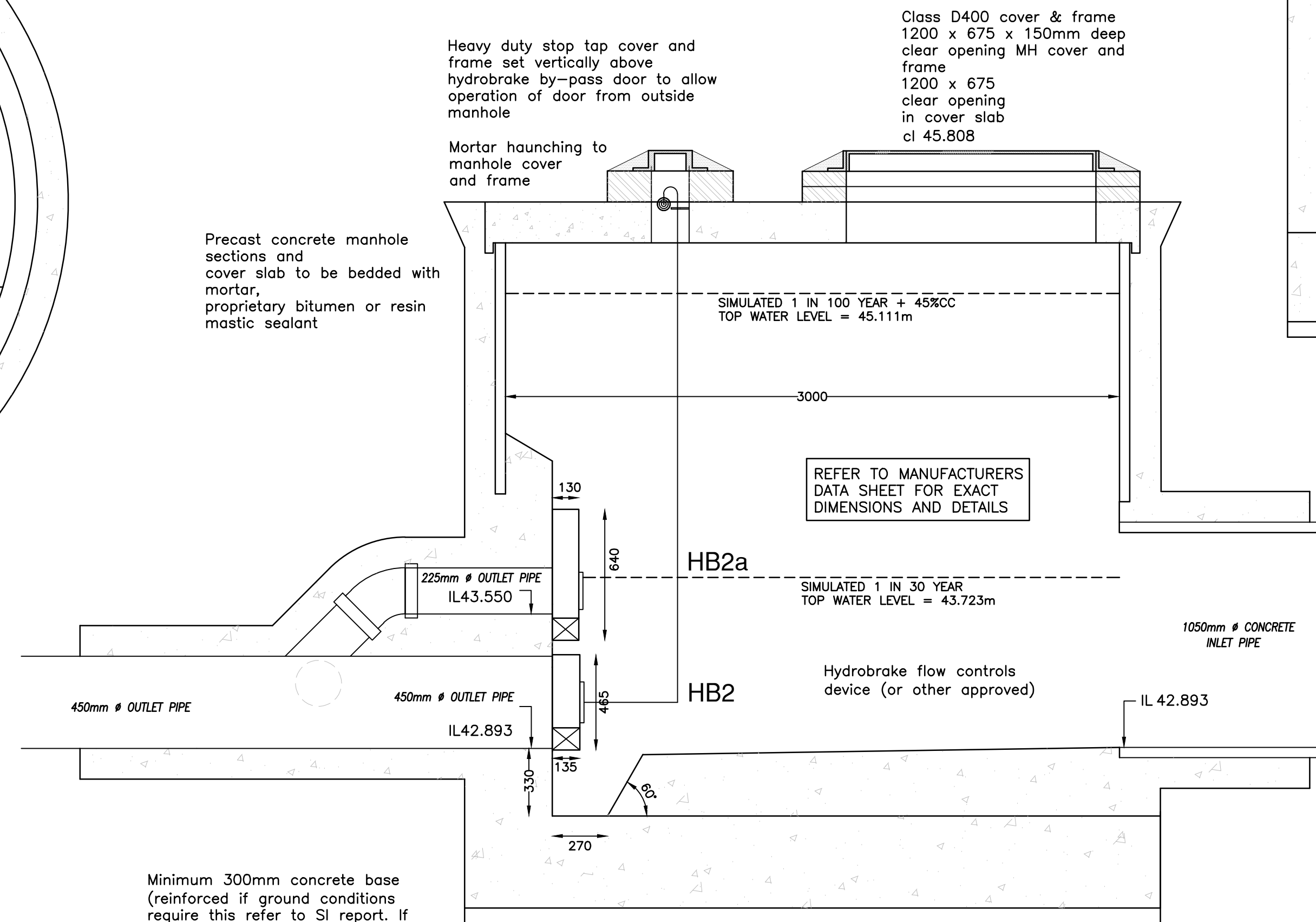
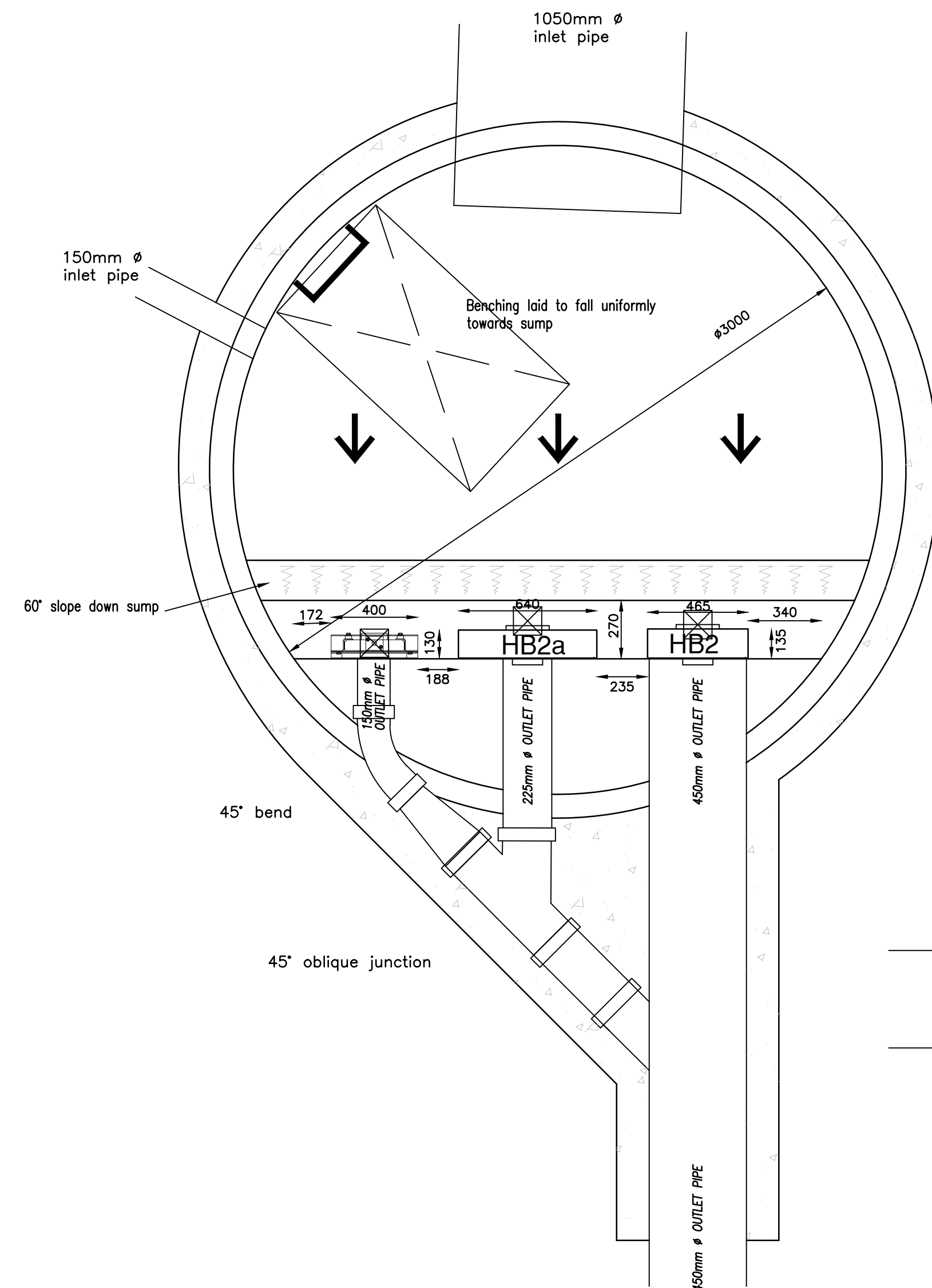


SHB2 - HYDROBRAKE MH



SW - NETWORK 2

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	
SHB2	45.808		1	1.005	42.893	1050	3000	HB	D400	150	Ladder	No	No	No
E= 386187.790	2.465									1220 x 685				
N= 396986.663										1220 x 685 COVER SLAB OPENING				
			0	1.006	42.893	450								

STUB PIPES AND ROCKER PIPES ARE REQUIRED ON ALL MANHOLE INLET AND OUTLET PIPES WHERE BACKDROPS ARE USED A ROCKER PIPE MUST BE PROVIDED AT THE TOP OF THE VERTICAL PIPE AND BEYOND THE CONCRETE ENCASEMENT

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

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

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.

HYDROBRAKE DETAILS

MH. No.	SHB2	
TYPE	SHE-0126-6800-0700-6800	
DESIGN HEAD (m)	0.7	
MAX. FLOW (litres/sec)	6.8	IL 42.893
ORIFICE DIA. (mm)	126	
SURCHARGED OUTFALL PIPE	YES	

HYDROBRAKE DETAILS

MH. No.	SHB2	
TYPE	SHE-0125-7800-1360-7800	
DESIGN HEAD (m)	1.36	
MAX. FLOW (litres/sec)	7.8	IL 43.550
ORIFICE DIA. (mm)	125	
SURCHARGED OUTFALL PIPE	YES	

- ### GENERAL
- 1. All adoptable sewers and associated works are to comply fully with "Design and Construction Guidance" & Local Practices
 - 2. All private drainage works to be 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 site of works and any discrepancies notified to REFA.
All levels are based on topographical survey information provided by the relevant.
 - 5. All materials to bear the relevant B.S. Kitemark and comply fully with the specifications.
 - 6. 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)
 - 7. All opening notices etc. as required under highways acts etc. are to be obtained prior to commencement of works
 - 8. 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 DSN 15/1, and residual risks that may be encountered in the construction of these works. The 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. The Client should be aware that 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 to the manner in which they will comply 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 edges of excavations to prevent people, materials and vehicles falling into excavation.
3. Guard 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]

D	REVISED FOLLOWING SW RECALCULATIONS	RW	20.07.25
C	COVER SIZES REVISED AS S104 COMMENTS	RF	25.5.23
B	SEWER DESIGN REVISED FOLLOWING UPDATED EXISTING SEWER INFORMATION	RF	06.04.23
A	TWL REVISED	RF	20.01.23



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

Client	
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**KELLEN HOMES
LIMITED**

Job title	
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**BENNETT STREET
MANCHESTER**

Drawing title

MANHOLE SCHEMATICS

DRG 12 - HB2

Date 29.11.22	Scale 1:20	Drawn RF
DRAWING No	22122/109/12	Rev D

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