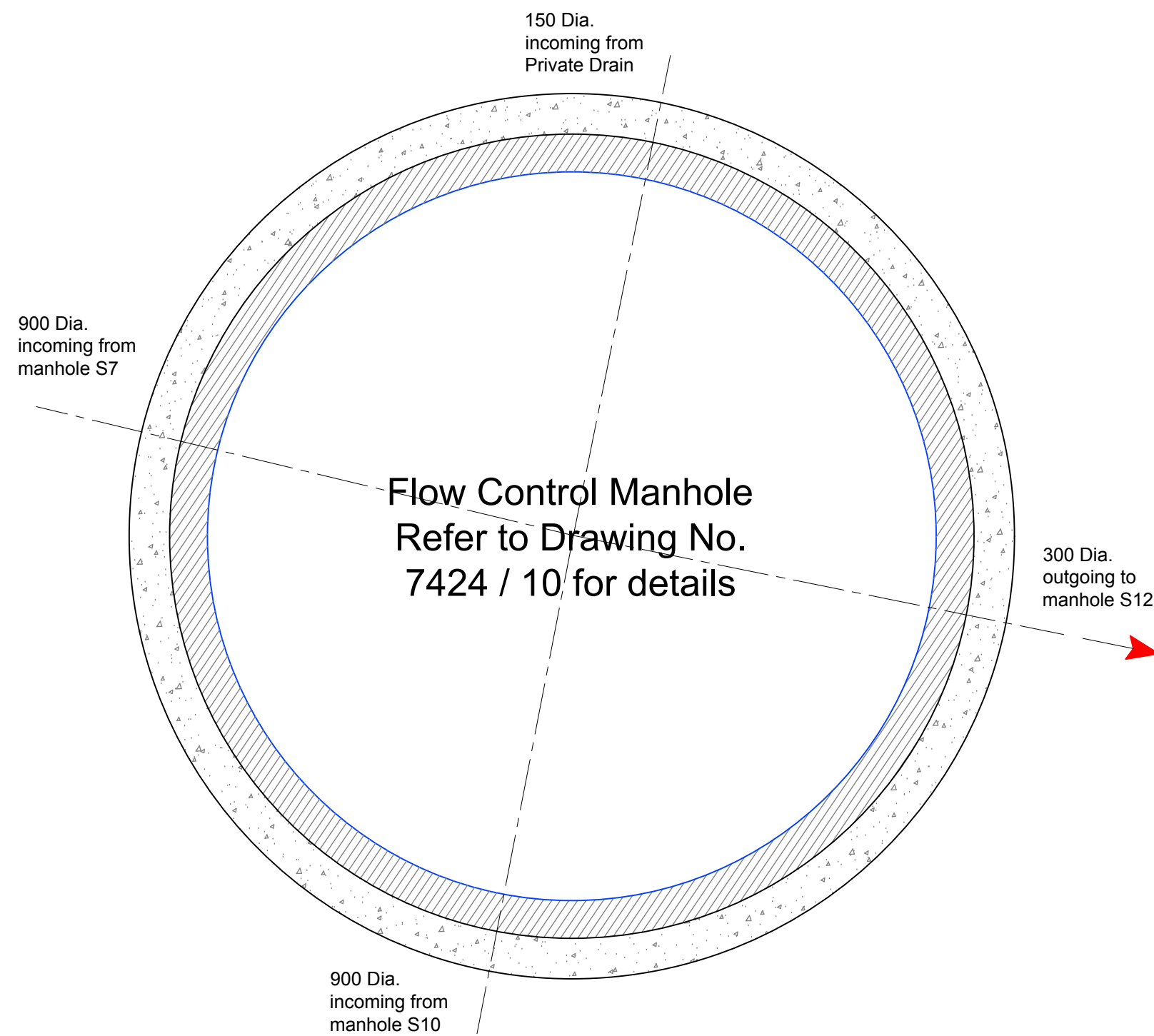
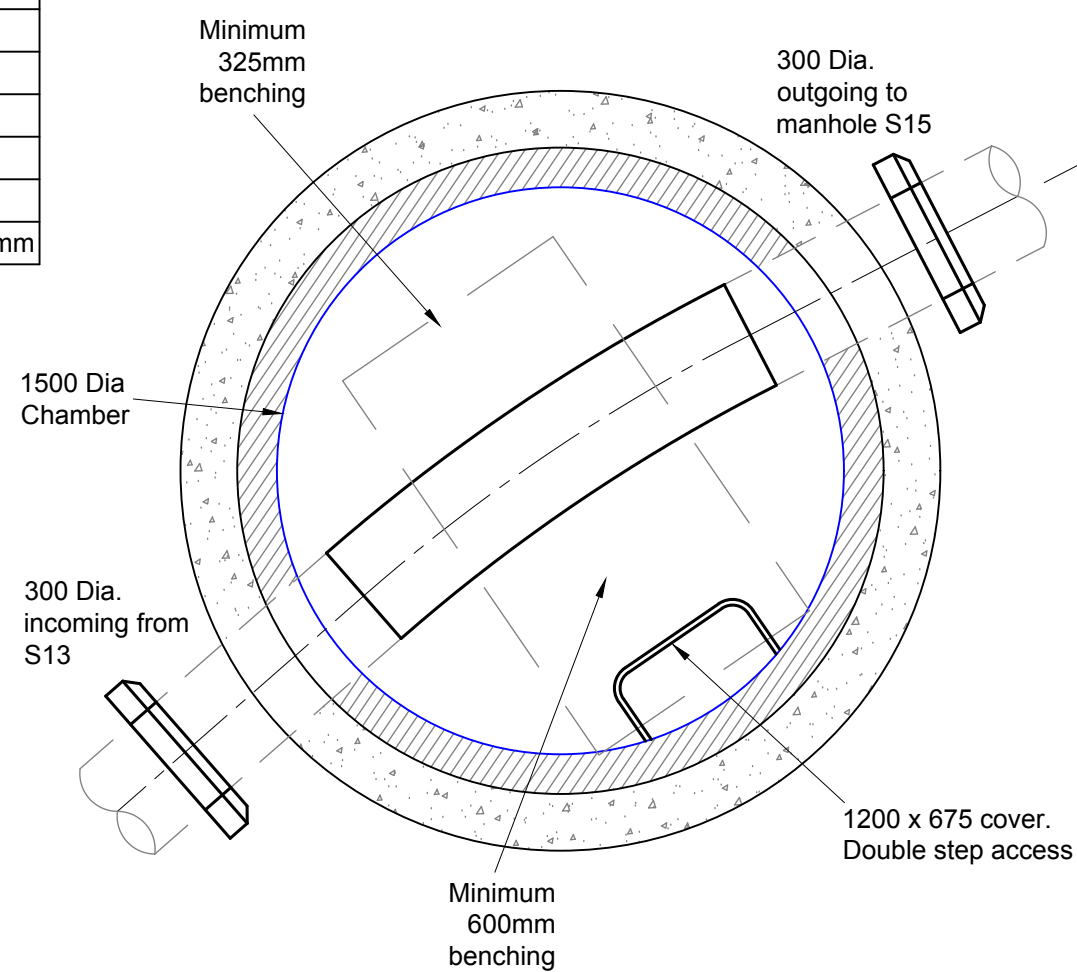


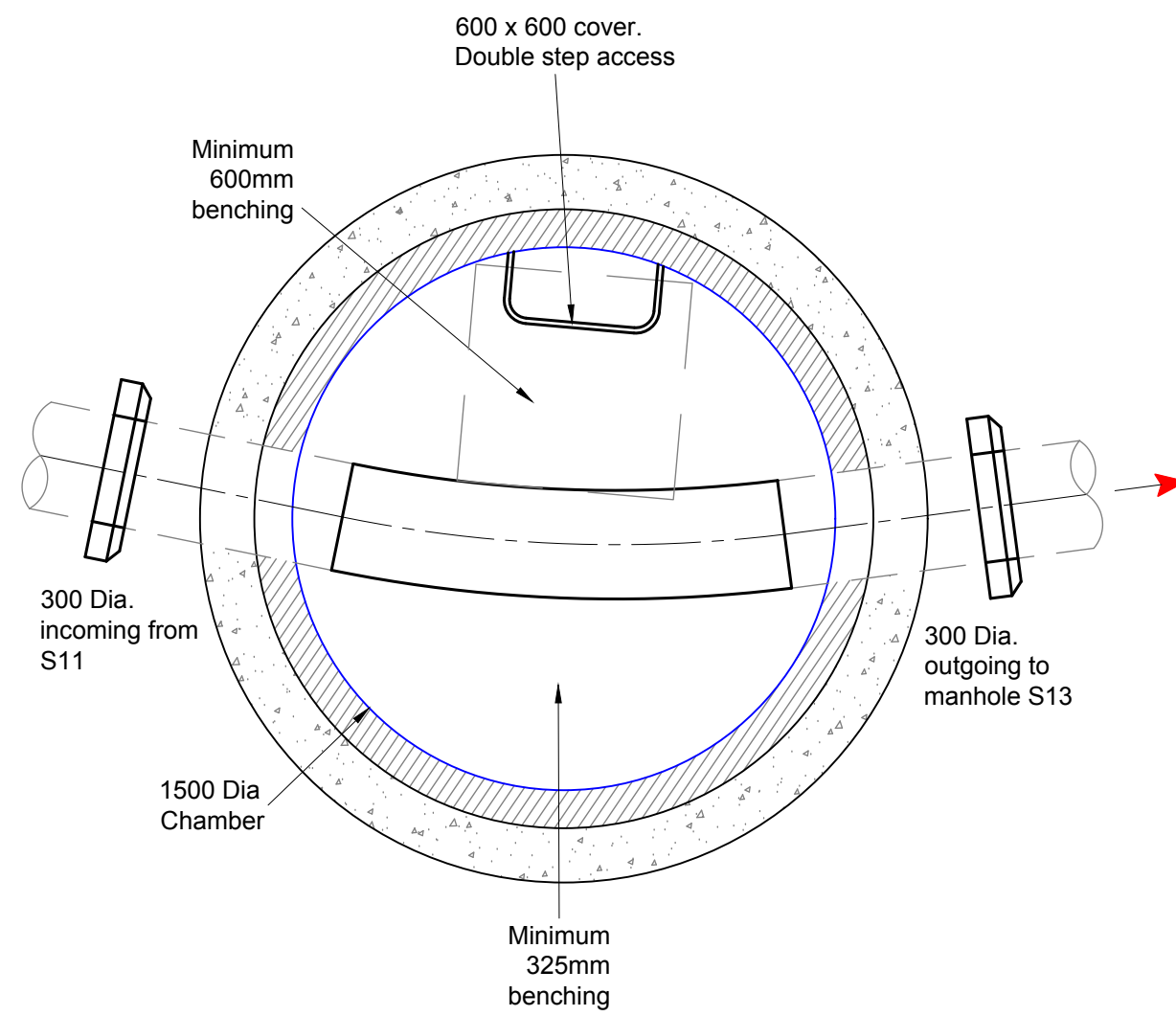
DO NOT SCALE



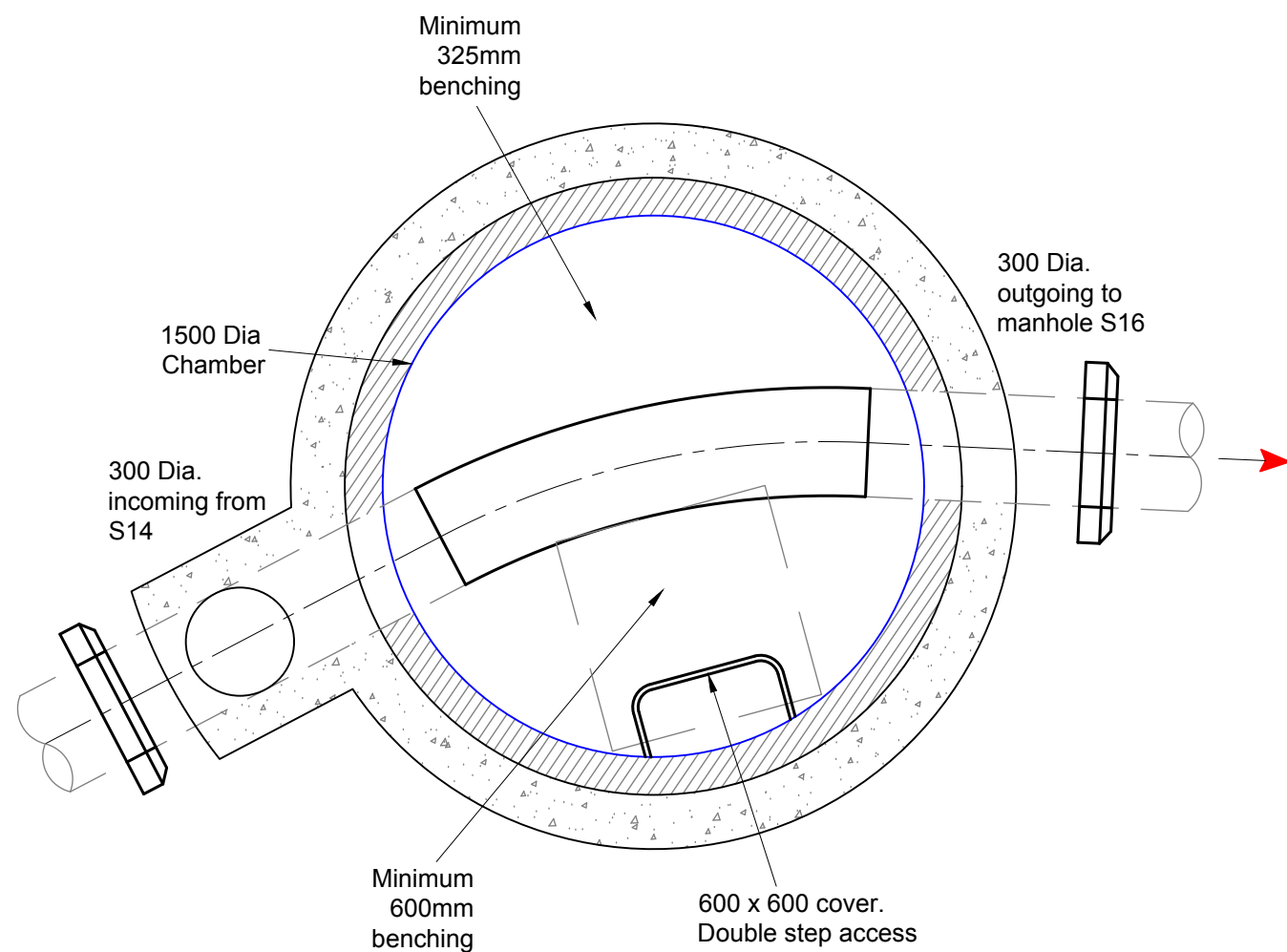
Manhole	S11
MH Diameter	2700mm
Cover Level	80.983
Invert Level	78.573
MH Type	Flow Control
Depth to Soffit	1.510
Depth to Invert/Benching	2.410
Depth to Cut-Out Recess (SW storage MHs only)	N/A
Cover Size	1200 x 675 mm
Cover Depth	150mm
Cover Spec.	D400
Ladder or Double Steps?	Double step
Safety Chain	No
Safety Rails	No
Invert Access Steps	No
Hole Size in Cover Slab	1200 x 675 mm



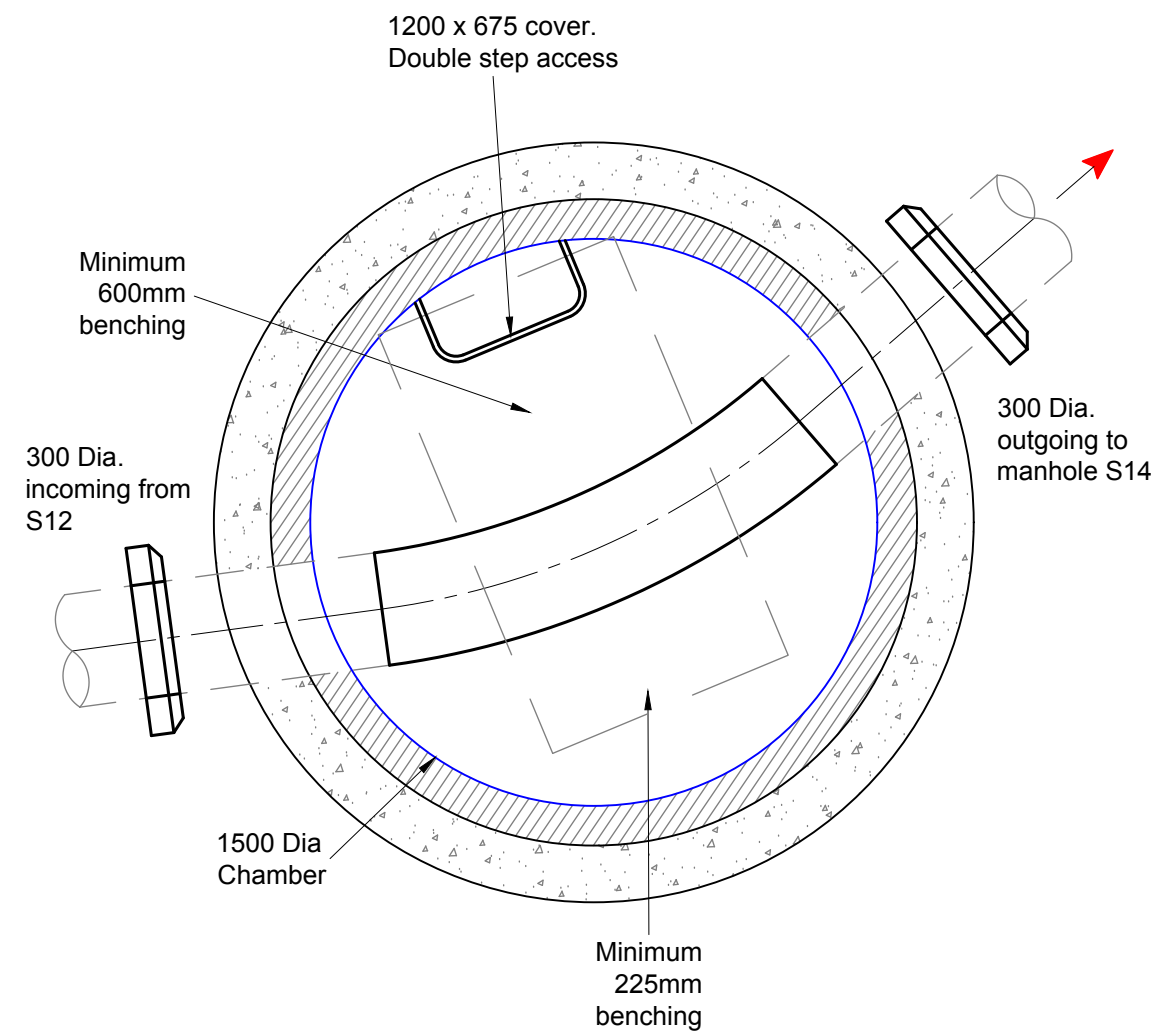
Manhole	S14
MH Diameter	1500mm
Cover Level	79.299
Invert Level	77.799
MH Type	Type 4
Depth to Soffit	1.200
Depth to Cut-Out Recess (SW storage MHs only)	N/A
Cover Size	1200 x 675 mm
Cover Depth	150mm
Cover Spec.	D400
Ladder or Double Steps?	Double step
Safety Chain	No
Safety Rails	No
Invert Access Steps	No
Hole Size in Cover Slab	1200 x 675 mm



Manhole	S12
MH Diameter	1500mm
Cover Level	80.398
Invert Level	78.411
MH Type	Type 1
Depth to Soffit	1.687
Depth to Cut-Out Recess (SW storage MHs only)	N/A
Cover Size	600 x 600 mm
Cover Depth	150mm
Cover Spec.	D400
Ladder or Double Steps?	Double step
Safety Chain	No
Safety Rails	No
Invert Access Steps	No
Hole Size in Cover Slab	750 x 600 mm



Manhole	S15
MH Diameter	1500mm
Cover Level	78.799
Invert Level	76.168
MH Type	Type 1
Depth to Soffit	2.331
Depth to Cut-Out Recess (SW storage MHs only)	N/A
Cover Size	600 x 600 mm
Cover Depth	150mm
Cover Spec.	D400
Ladder or Double Steps?	Double step
Safety Chain	No
Safety Rails	No
Invert Access Steps	No
Hole Size in Cover Slab	750 x 600 mm



Manhole	S13
MH Diameter	1500mm
Cover Level	79.902
Invert Level	78.309
MH Type	Type 4
Depth to Soffit	1.293
Depth to Cut-Out Recess (SW storage MHs only)	N/A
Cover Size	1200 x 675 mm
Cover Depth	150mm
Cover Spec.	D400
Ladder or Double Steps?	Double step
Safety Chain	No
Safety Rails	No
Invert Access Steps	No
Hole Size in Cover Slab	1200 x 675 mm

Notes

- All works shall be in accordance with Sewers for Adoption 6th Edition and United Utilities Standard Details and Guidelines.
- Step Rungs shall be installed in accordance to BS EN 13101.
- Manholes shall be to United Utilities Standard Detail STND/01/001. Ladders, Safety chains and Handrailing shall be to Standard Detail STND/01/002. Back-drops shall be to Standard Detail STND/01/003.
- 150mm min concrete surround required for all adopted Manholes.
- Rocker pipes shall be provided in accordance with United Utilities Standard Detail STND/19/010.
- Pipe materials as table below or similar approved by United Utilities.
- All lateral connections will be made at soffit level to the main channel.

Pipe Materials Table

Pipe Materials Table	Pipe Materials Table
150	CLAYWARE
225	CLAYWARE
300	CLAYWARE
375	CONCRETE
450	CONCRETE
600	CONCRETE
750	CONCRETE
900	CONCRETE
1200	CONCRETE
1500	CONCRETE

Bedding and Surround Table

Depth to Soffit	Bedding and Surround Type
>1.2m	Class S
<1.2m	Class Z

APPROVAL

B	19.01.21	Updated to suit UU comments	PW	AJ
A	04.01.21	Updated to suit UU comments	LW	AJ
Rev.	Date	Revision	By	Appd.



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Client
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Project
White House Club, Middleton Road, Manchester

Title
**Surface Water Manhole Details
Sheet 3 of 5**

DRAWING NUMBER	SCALE at A1	1:20	REVISION
7424 / 12-3	DATE	?	B
	DRAWN	PW	
	CHECKED	AJ	