TYPE OF ACCESS	DEPTH TO INVERT FROM COVER LEVEL (m)	MINIMUM INTERNAL DIMENSIONS		MINIMUM CLEAR OPENING SIZE		
		LENGTH x WIDTH (mm x mm)	CIRCULAR (mm)	LENGTH x WIDTH (mm x mm)	CIRCULAR (mm)	
RODDING EYE	-	AS DRAIN BUT 100mm MINIMUM	-	-	SAME SIZE AS PIPEWORK	
ACCESS FITTING SMALL 150mmØ SMALL 150mmx100mm LARGE 225mmx100mm	0.6m OR LESS EXCEPT WHERE SITUATED IN A CHAMBER	150 x 100 225 x 100	150 225	150 x 100 <sup>1</sup> 225 x 100 <sup>1</sup>	SAME SIZE AS ACCESS FITTING	
INSPECTION CHAMBER						
SHALLOW	0.6m OR LESS	225 x 100	190 <sup>2</sup>		190 <sup>1</sup>	
MEDIUM	1.2m OR LESS	450 x 450	450	MINIMUM 430 x 430	430 ACCESS RESTRICTED TO 350 MAXIMUM <sup>3</sup>	
DEEP	GREATER THAN 1.2m	450 x 450	450	MAXIMUM 300 x 300 <sup>3</sup>		

NOTES: 1. THE CLEAR OPENING MAY BE REDUCED BY 20mm IN ORDER TO PROVIDE PROPER SUPPORT FOR THE COVER AND FRAME.

2. DRAINS UP TO 150mm DIAMETER. 3. A LARGER CLEAR OPENING COVER MAY BE USED IN CONJUNCTION WITH A RESTRICTED ACCESS. THE SIZE IS RESTRICTED FOR HEALTH AND SAFETY REASONS TO DETER ENTRY.

MINIMUM DIMENSIONS FOR MANHOLES							
		MINIMUM INTERNAL DIMENSIONS <sup>1</sup>		MINIMUM CLEAR OPENING SIZE <sup>1</sup>			
TYPE OF ACCESS	SIZE OF LARGEST PIPE (DN)	RECTANGULAR LENGTH x WIDTH (mm x mm)	CIRCULAR DIAMETER (mm)	RECTANGULAR LENGTH x WIDTH (mm x mm)	CIRCULAR DIAMETER (mm)		
MANHOLE LESS THAN 1.5m DEEP	LESS THAN OR EQUAL TO 150	750 x 675 <sup>7</sup>	1000 7	750 x 675 <sup>2</sup>	N/A <sup>3</sup>		
TO SOFFIT	225	1200 x 675	1200	1200 x 675 <sup>2</sup>			
	300	1200 x 750	1200				
	GREATER THAN 300	1800 x (DN+450)	THE LARGER OF 1800 <u>OR</u> (DN+450)				
MANHOLE GREATER THAN 1.5m DEEP TO SOFFIT	LESS THAN OR EQUAL TO 225	1200 x 1000	1200	600 x 600	600		
	300	1200 x 1075	1200				
	375-450	1350 x 1225	1200				
	GREATER THAN 450	1800 x (DN+775)	THE LARGER OF 1800 <u>OR</u> (DN+775)				
MANHOLE SHAFT <sup>4</sup> GREATER THAN 3.0m DEEP TO SOFFIT	STEPS 5	1050 x 800	1050	600 x 600	600		
	LADDER <sup>5</sup>	1200 x 800	1200				
	WINCH <sup>6</sup>	900 x 800	900	600 x 600	600		

NOTES: 1. LARGER SIZES MAY BE REQUIRED FOR MANHOLES ON BENDS OR WHERE THERE ARE JUNCTIONS 2. MAY BE REDUCED TO 600mmx600mm WHERE REQUIRED BY HIGHWAY LOADING CONSIDERATIONS, SUBJECT TO A SAFE SYSTEM OF WORK BEING SPECIFIED 1. LARGER SIZES MAY BE REQUIRED FOR MANHOLES ON BENDS OR WHERE THERE ARE JUNCTIONS 2. MAY BE REDUCED TO 600mmx600mm WHERE REQUIRED BY HIGHWAY LOADING CONSIDERATIONS, SUBJECT TO A SAFE SYSTEM OF WORK BEING SPECIFIED 2. MAY BE REDUCED TO 600mmx600mm WHERE REQUIRED BY HIGHWAY LOADING CONSIDERATIONS, SUBJECT TO A SAFE SYSTEM OF WORK BEING SPECIFIED

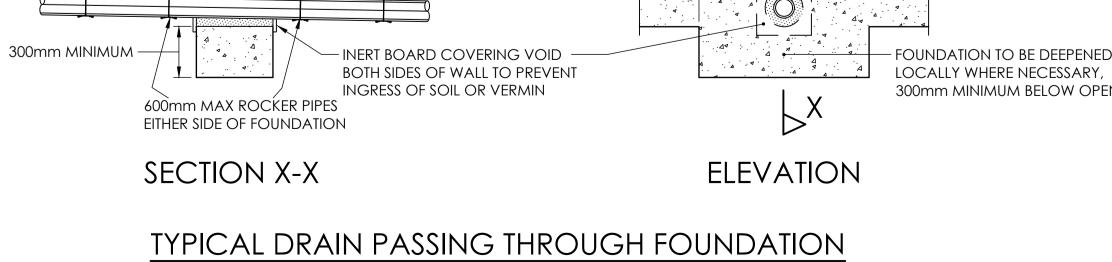
. MINIMUM HEIGHT OF CHAMBER IN SHAFTED MANHOLE 2m FROM BENCHING TO UNDERSIDE OF REDUCING SLAB

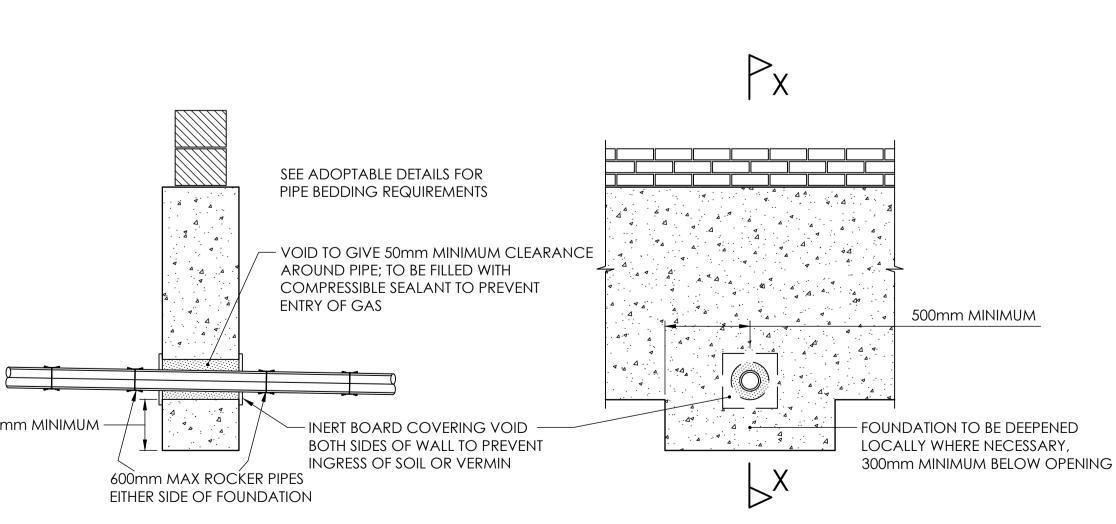
MINIMUM CLEAR SPACE BETWEEN LADDER OR STEPS AND THE OPPOSITE FACE OF THE SHAFT SHOULD BE APPROXIMATELY 900mm

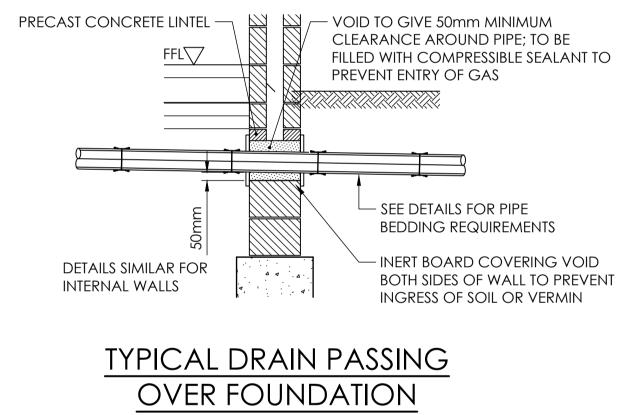
WINCH ONLY - NO STEPS OR LADDERS, PERMANENT OR REMOVABLE THE MINIMUM SIZE OF ANY MANHOLE SERVING A SEWER (i.e. ANY DRAIN SERVING MORE THAN ONE PROPERTY) SHOULD BE 1200mmx675mm RECTANGULAR OR 1200mm DIAMETER.

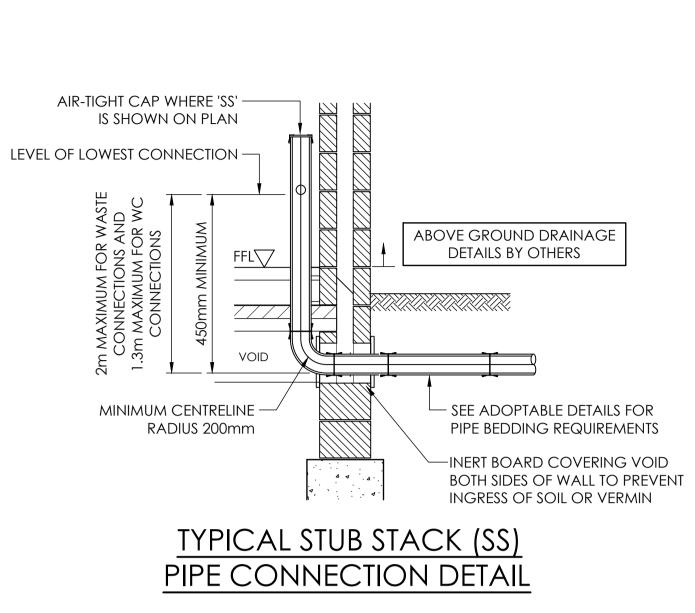
## TABLE SHOWING PRIVATE MANHOLE/INSPECTION CHAMBER COVER GRADES AND AREAS OF USE

COVER GRADE TO BS EN 124	LOCATION			
D400	FOR USE IN INDUSTRIAL ROADS AND PARKING AREAS ACCESSIBLE TO ALL TYPES OF ROAD VEHICLES INCLUDING HGVs			
C250*	FOR USE IN PRIVATE ROADS OR PARKING AREAS, e.g. CAR PARKS AND MINOR PRIVATE ROADS ACCESSIBLE TO REFUSE VEHICLES, FIRE APPLIANCES, etc, WITH POSSIBLE OCCASIONAL HGV USE			
B125	FOR USE IN FOOTWAYS, PEDESTRIAN AREAS, DRIVEWAYS AND CAR PARKS ACCESSIBLE BY LIGHT VEHICLES ONLY			
A15	FOR USE IN AREAS WHICH CAN BE USED ONLY BY PEDESTRIANS AND PEDAL CYCLISTS			
* D400 MAY BE USED IN LIEU OF C250 IF PREFERRED				









PROJECT MCDONALD'S HAVERHILL	DATE 03.08.22	DRAWING STATUS 2 INFORMATION		
	scale(s)	designed SW	drawn SW	
DRAWING TITLE PRIVATE DRAINAGE	SHOWN	CHECKED BWA	APPROVED BWA	
STANDARD DETAILS SHEET 2 OF 2	JOB No			H
	25	590		create
	DRAWING NO		REVISION	CONSULTING
MCDONALD'S RESTAURANT	02/0	04	-	ENGINEERS LTD

REV	DATE	AMENDMENT DETAILS	DRAWN	APPROVED			

ALL PRODUCTS REFERENCED WITHIN THIS DRAWING CAN BE CHANGED TO ALTERNATE PRODUCTS SUBJECT TO APPROVAL OF THE ENGINEER

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