

CLEAR OPENING	
Chamber Depth <900mm	600mm x 1200mm
Chamber Depth >900mm	600mm x 600mm

TABLE 3.

DIAMETER OF LARGEST PIPE	INTERNAL DIA. OF MANHOLE
<375mm	1200mm
375 - 700mm	1500mm
750 - 900mm	1800mm

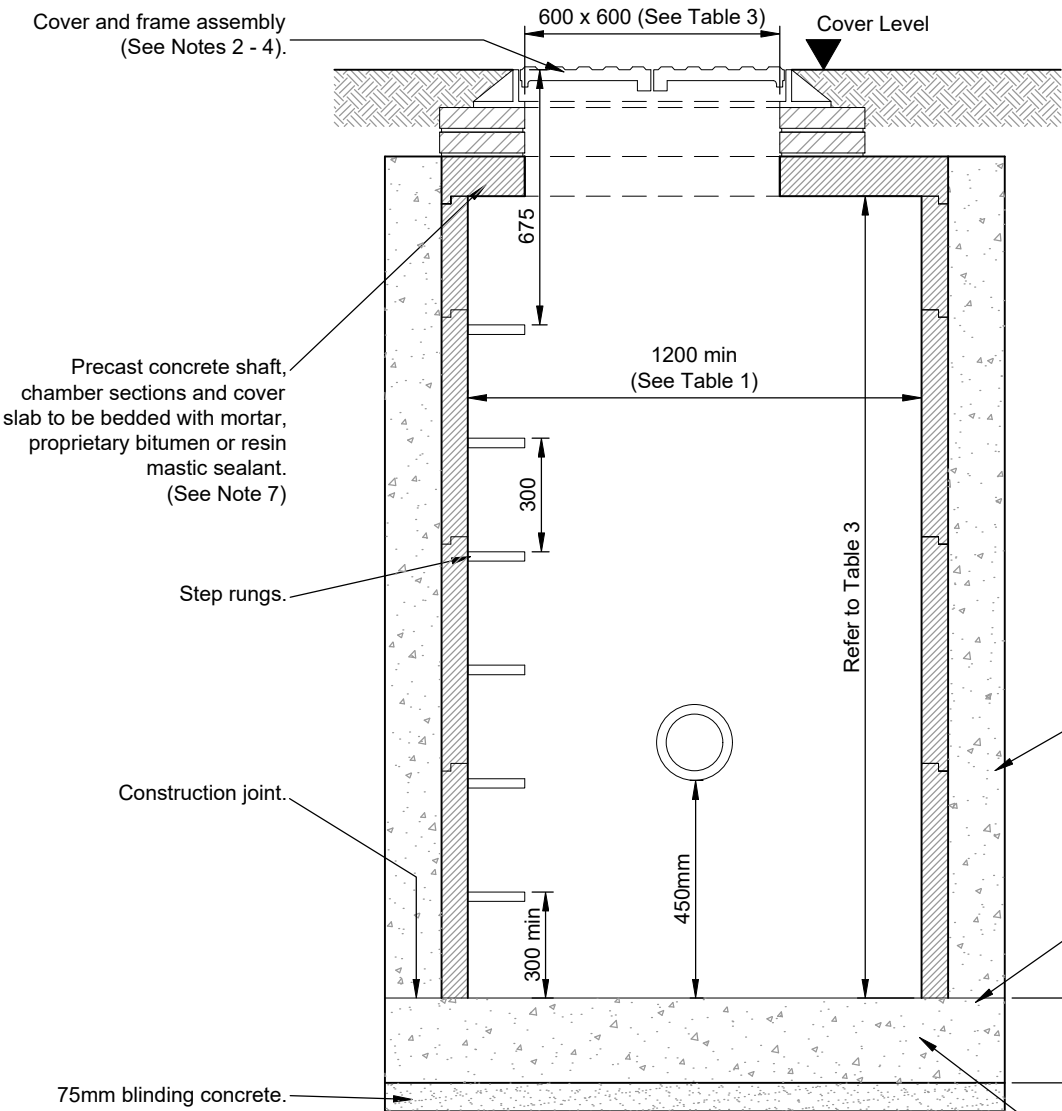
TABLE 1.

NOMINAL DIAMETER	ROCKER PIPE LENGTH
150 - 600mm	0.6m
>600 - 750mm	1.0m
>750mm	1.25m

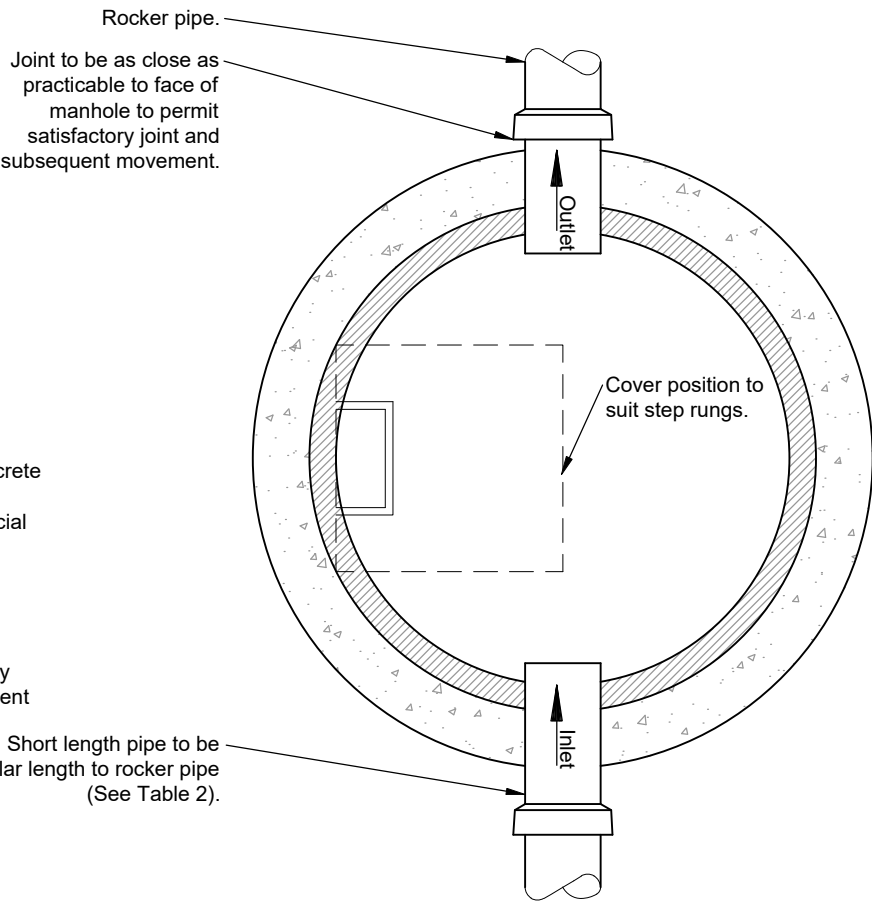
TABLE 2

Note: Opening to be offset from centre by approximately 200mm for 1200mm diameter shaft with rungs/ladder.

Minimum depth from cover level to base 1.3m.
Maximum depth from cover level to soffit of pipe 3.0m.



SECTION
(Scale 1:20)



PLAN
(Scale 1:20)

NOTES

- Do not scale from this drawing.
- Cover Grade shall be minimum D400 unless otherwise agreed with the Highway Inspector. 600mm x 600mm clear opening (Refer to Table 3).
- Manhole cover and frames shall comply with the relevant provisions of BS EN 124, BS 7903 and Highway Agency Guidance Document HA 104/02. They shall be of a non-rocking design which does not rely on the use of cushion inserts. All manhole covers shall be the non-ventilating type and shall have closed keyways. All covers formed of double triangular units shall be loosely bolted together.
- Frames shall be bedded on a gauged Class 1 (3:1) sand/cement mortar to Cl.2402 of SHW Mortar Designation (i), and between 2 and 4 courses of Engineering Brickwork Class 'B' to BS EN 771-1:2011.
- Rungs for manholes and other chambers shall be Type D Class 1, complying with the requirements of BS EN 13101: 2002.
- Precast concrete manhole pattern step irons at 300mm centres vertically and staggered 300mm horizontally between centres.
- On manholes less than 1.5mØ reducing slab not to be used and PC rings to continue up to cover slab.
- Pre-cast concrete products shall comply with the relevant provisions of BS 5911: Part 2, 200 & 230.
- The number of incoming branches and invert levels may vary.
- Cover and frame may be installed as a 'gully top' where appropriate.
- Min pipe diameter for carrier pipes to be 225mm.
- Min pipe diameter for gully laterals to be 150mm.

E	General update	MJA	MJA	15.03.19
D	General update	MJA	HM	07.11.17
C	Min pipe diameters added	DJL	HM	25.04.17
Rev	Revision details	Chkd	Appd	Date
Drawn:	MJA		For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

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Project Name

Section 278/38 Highway Agreement
Standard Details

Drawing Title

Drainage
Type B Catchpit



Original Drawing Size : A3	
Scale : As Shown	Dimensions :
Drawing No. S278/38/13	Rev E