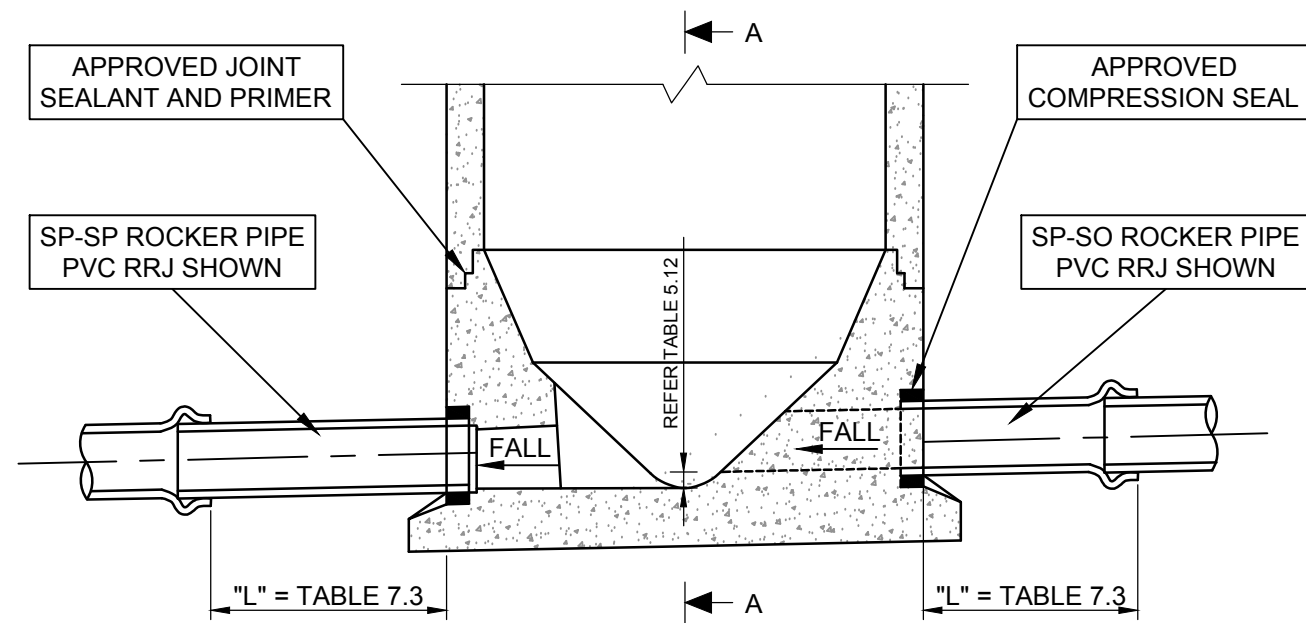


TYPICAL PRE-CAST MH BASE WITH PRE-FORMED BENCHING



TYPICAL PRE-CAST CONCRETE MH BASE WITH CONICAL BENCHING

DEFLECTION ANGLE AT MH (DEGREES)	MINIMUM INTERNAL FALL (mm)
0 TO 90	30
90 TO 120	80*

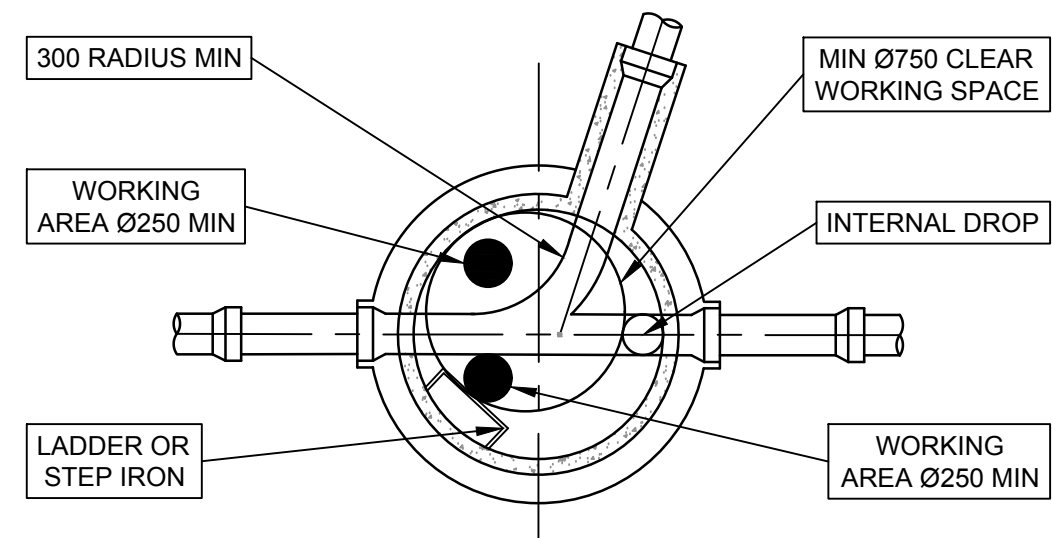
WSA TABLE 5.12

MINIMUM INTERNAL FALL THROUGH AN MH JOINING RETICULATION SEWERS OF SAME DIAMETER

* WHERE AN INTERNAL OR EXTERNAL DROP IS PROVIDED TO CATER FOR A LARGE FALL BETWEEN THE MH INLET AND OUTLET SEWERS, THE INTERNAL FALL THROUGH THE MH SHOULD BE TAKEN AS THE LEVEL DIFFERENCE BETWEEN THE OUTLET IL OF THE DROP STRUCTURE AND THE IL OF THE MH OUTLET SEWER. ILS ARE CALCULATED AT THE CENTER OF THE MH.

SEWER SIZE DN	PVC		VC, RC	DI	GRP	
	"L" MIN	"L" MAX	"L"	"L"	"L" MIN	"L" MAX
150	300	450	600	1500	500	1000
225	450	650	600	1500	500	1000
300	600	900	700	1500	500	1000
375	750	1125	700	1500	500	1000

TABLE 7.3
ROCKER PIPE DIMENSIONS



TYPICAL MH BASE DESIGN

NOTES

EACH MH SHALL HAVE:

- CHANNELS WITH THE MAXIMUM RADIUS OF CURVATURE PROVIDED THAT THE TANGENT POINTS AT EACH END OF THE CURVE ARE LOCATED WITHIN THE INSIDE DIAMETER OF THE MH. THE MINIMUM RADIUS OF CURVATURE (TO THE INSIDE CHANNEL WALL) SHALL BE NOT LESS THAN 300mm OR THE DIAMETER OF THE SEWER, WHICHEVER IS GREATER; AND
- TWO (2) UNOBSTRUCTED AREAS OF AT LEAST 250 mm DIAMETER, ONE LOCATED DIRECTLY IN FRONT OF THE STEP IRONS OR LADDERS AND SUITABLY SPACED TO ALLOW A MAINTENANCE PERSON TO STAND WITHOUT OBSTRUCTION BY DROPS, STEP IRONS AND/OR LADDERS; AND
- A MINIMUM 750mm DIAMETER WORKING AREA CLEAR OF ANY INTERNAL OBSTRUCTION SUCH AS DROPS, LADDERS AND STEP IRONS; AND
- CHANNELS AT THE BASE OF AN MH DROP SHALL BE STRAIGHT SIDED AND POINTED DIRECTLY AT THE OUTLET.
- FOR FURTHER MAINTENANCE HOLE INSTALLATION SPECIFICATIONS REFER DRAWINGS 010-035_2 AND 010-035_3.
- FOR SHALLOW SEWER MAINTENANCE HOLES <3m TYPICAL CONCRETE STRENGTH FOR CAST IN-SITU 32MPa, SLUMP 80mm. FOR DEEPER MAINTENANCE HOLES REFER TO WSA.

Armidale Dept of Public Regional Council Infrastructure	SCALES	APPROVED	D. MAUNDER	31/08/2016	SHEET 1 OF 3
	NTS	MANAGER ENGINEERING AND STANDARDS SUPPORT		DATE	
SEWER MAINTENANCE HOLES MANHOLE BASES AND PIPE CONNECTION DETAILS		SURV	AS SHEET SIZE	DRAWING No	AMDT No
		DRWN	A3	010-026	
		DES			
		CHKD			