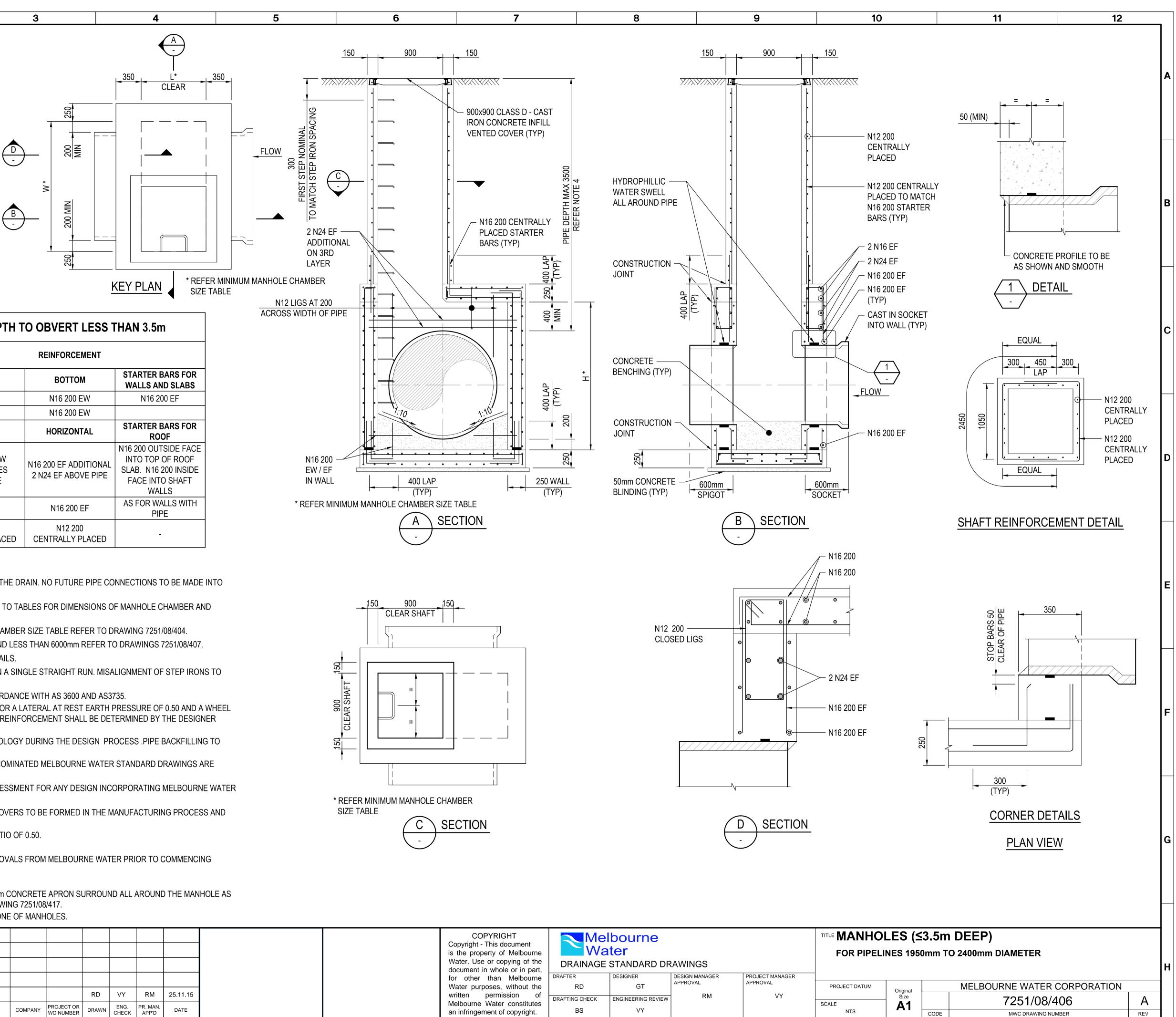
7251/08/406

RE/

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PIPE SIZES AND MINIMUM MANHOLE CHAMBER SIZE INTERNAL INTERNAL INTERNAL* LENGTH (mm) HEIGHT (mm) PIPE SIZE (mm) WIDTH (mm) (H) (W) (L) 2800 1950 2600 900 2100 2800 900 3000 2250 3150 2950 900 2400 3150 900 3350 INTERNAL DIMENSION OF SHAFT IS 900x900

2



DIMENSIONS OF PIT ARE BASED ON THE O.D. OF CLASS 3 PIPE

REINFORCEMENT IN MANHOLE WITH DEPTH TO OBVERT LESS THAN 3.5m

	ITEM	THICKNESS (mm)	REINFORCEMENT					
			ТОР	воттом	STARTER BARS FOR WALLS AND SLABS			
	BASE SLAB	250	N16 200 EW	N16 200 EW	N16 200 EF			
D	ROOF	250	N16 200 EW	N16 200 EW				
	WALLS		VERTICAL	HORIZONTAL	STARTER BARS FOR ROOF			
	WALLS WITH PIPE PENETRATION	350	N16 AT 200 EW N12 LIGATURES ABOVE PIPE	N16 200 EF ADDITIONAL 2 N24 EF ABOVE PIPE	N16 200 OUTSIDE FACE INTO TOP OF ROOF SLAB. N16 200 INSIDE FACE INTO SHAFT WALLS			
	OTHER WALLS PARALLEL	250	N16 200 EF	N16 200 EF	AS FOR WALLS WITH PIPE			
	SHAFT WALLS	150	N12 200 CENTRALLY PLACED	N12 200 CENTRALLY PLACED	-			

NOTES:

- THE PURPOSE OF THE MANHOLE IS TO PROVIDE ACCESS INTO THE DRAIN. NO FUTURE PIPE CONNECTIONS TO BE MADE INTO MANHOLE STRUCTURE.
- FOR PIPES WITH DEPTH TO OBVERT LESS THAN 3500mm REFER TO TABLES FOR DIMENSIONS OF MANHOLE CHAMBER AND REINFORCEMENT DETAIL
- FOR SMALLER PIPE DIAMETERS NOT COVERED IN MANHOLE CHAMBER SIZE TABLE REFER TO DRAWING 7251/08/404.
- FOR PIPES WITH DEPTH TO OBVERT GREATER THAN 3500mm AND LESS THAN 6000mm REFER TO DRAWINGS 7251/08/407.
- REFER DRAWING 7251/08/416 FOR STEP IRON AND LADDER DETAILS.

PREFERENCE TO BE GIVEN FOR INSTALLING THE STEP IRONS IN A SINGLE STRAIGHT RUN. MISALIGNMENT OF STEP IRONS TO BE IN ACCORDANCE WITH AS 1657.

MANHOLES ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 3600 AND AS3735.

MANHOLES SHOWN ON THIS DRAWING HAVE BEEN DESIGNED FOR A LATERAL AT REST EARTH PRESSURE OF 0.50 AND A WHEEL LOAD OF 80kN. THE REQUIREMENTS OF WALL THICKNESS AND REINFORCEMENT SHALL BE DETERMINED BY THE DESIGNER HAVING REGARD TO SITE CONDITIONS.

THE DESIGNER TO CONSIDER MANHOLE BACKFILLING METHODOLOGY DURING THE DESIGN PROCESS .PIPE BACKFILLING TO 9. COMPLY WITH DRAWING 7251/08/419.

10. IT IS THE DESIGNER'S RESPONSIBILITY TO ENSURE THAT THE NOMINATED MELBOURNE WATER STANDARD DRAWINGS ARE SUITABLE FOR PROJECT USE.

11. DESIGN ENGINEER TO CARRY OUT SAFETY IN DESIGN RISK ASSESSMENT FOR ANY DESIGN INCORPORATING MELBOURNE WATER STANDARD DRAWINGS.

- 12. NOMINATED MANHOLE COVER CLASS IS TO AS3996. VENTS IN COVERS TO BE FORMED IN THE MANUFACTURING PROCESS AND NOT ON SITE.
- 13. CONCRETE SHALL BE GRADE S40 WITH A MAXIMUM CEMENT RATIO OF 0.50.

14. MINIMUM CONCRETE COVER TO REINFORCEMENT IS 50mm.

15. THE CONTRACTOR TO OBTAIN NECESSARY PERMITS AND APPROVALS FROM MELBOURNE WATER PRIOR TO COMMENCING WORKS ON EXISTING MELBOURNE WATER ASSETS.

16. ALL CONCRETE TO BE CAST IN SITU.

	17.	FOR MANHOLES LOCATED IN NON-PAVED AREAS, CAST IN 600mm CONCRETE APRON SURROUND ALL AROUND THE MANHOLE AS
_		SHOWN ON CONCRETE APRON ARRANGEMENT DETAIL ON DRAWING 7251/08/417.
	40	

NO VEGETATION OBSTRUCTIONS TO BE LOCATED WITHIN 2m ZONE OF MANHOLES.

		1	2	3				4		
	REV	DESCRIPTION		COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE	
	А	FIRST REVISION				RD	VY	RM	25.11.15	
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