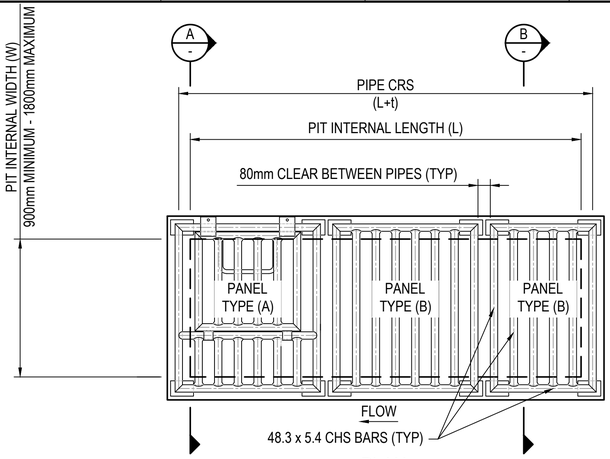
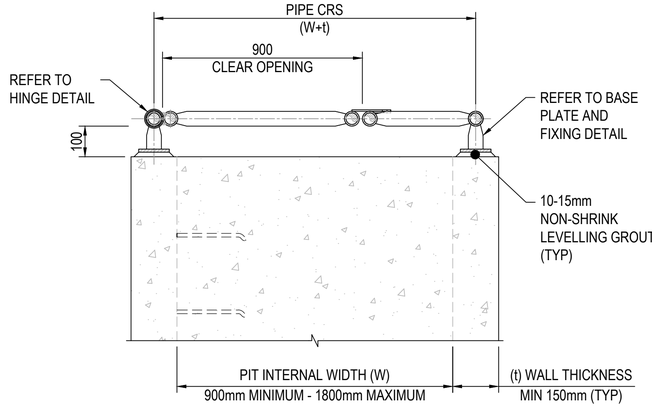
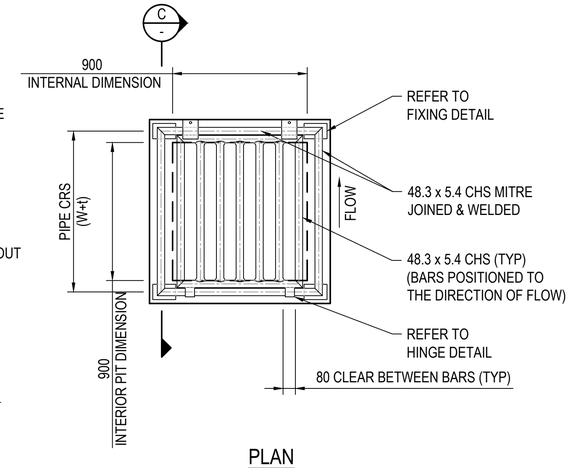


PLAN

PIPE GRILLE PLAN FOR PIT LENGTH GREATER THAN 900mm - SHOWN DIAGRAMATIC ONLY

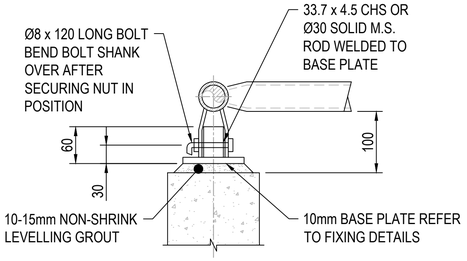


A - SECTION

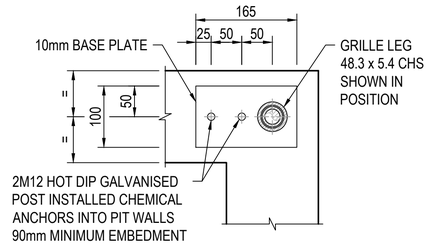


PLAN

PIPE GRILLE FOR PIT DIMENSION 900 x 900mm



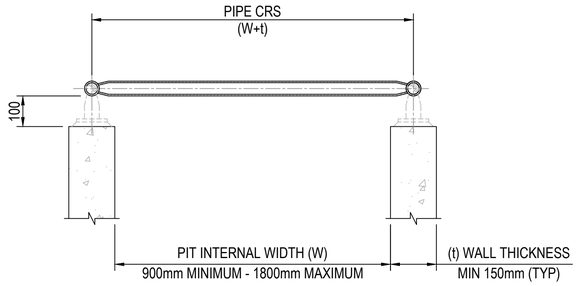
FIXING DETAIL - SECTION



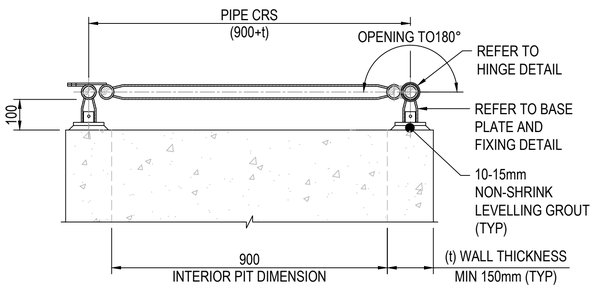
BASE PLATE DETAIL - PLAN

NOTES:

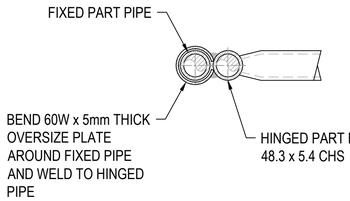
1. SPAN PIPE GRILLE ACROSS PIT WIDTH.
2. LOCATE TYPE (A) PANELS CLOSE TO DRAINAGE PIPE.
3. THE NUMBER OF SELECTED TYPE (B) PANELS TO SUIT OVERALL PIT LENGTH.
4. ALL PIPE GRILLS ARE NOT TRAFFICABLE. PROVIDE PROTECTION FENCING AROUND THE PIT IN CASE THE PIPE GRILLS ARE HAZARD TO PEDESTRIANS AS PER MELBOURNE WATER STANDARD DRAWING 7251/08/206.
5. PROVIDE 600mm CONCRETE APRON AS A HARDSTAND ALL AROUND PIPE GRILL PIT AS PER DRAWING 7251/08/417.
6. WORKMANSHIP AND MATERIALS TO COMPLY WITH AS4100, AS/NZS4600, AS/NZS1554.
7. PROVIDE STEEL IN ACCORDANCE WITH AS/NZS3678 OR AS/NZS3679 GRADE 250 MINIMUM.
8. CARRY OUT WELDING TO AS/NZS1554: ALL INTERFACES BETWEEN STEEL SECTIONS TO BE CONNECTED WITH 6mm CONTINUOUS FILLET WELDS ALL ROUND, BOTH SIDES UNO. WELDS TO BE CATEGORY (SP). ELECTRODES TO BE LOW CARBON CLASSIFICATION E48XX, PRE-APPROVED TO AS/NZS1554.
9. ALL PIPE GRILLS AND STEELWORK TO BE HOT DIP GALVANISED. APPLY THE GALVANIZED COATING TO AS/NZS2312.2, TABLE 6.2 SYSTEM HGD900, WITH A NOMINAL THICKNESS OF 125 MICRON OR THE EQUIVALENT MASS OF 900 G/M2. REPAIR DAMAGED GALVANIZING IN ACCORDANCE WITH AS/NZS 4680, SECTION 8, BY APPLYING A ZINC-RICH EPOXY COATING USING A SUFFICIENT NUMBER OF APPLICATIONS TO ACHIEVE A TOTAL DFT OF 150 MICRON, (WITHIN 4 HOURS) TO THE PREPARED SURFACE, BY BRUSH OR SPRAY IN ACCORDANCE WITH THE COATING MANUFACTURER'S RECOMMENDATIONS (TYPICALLY TWO COATS ARE REQUIRED TO ACHIEVE THE DFT). EXTEND THE PATCH OF ORGANIC ZINC-RICH COATING A MINIMUM OF 50mm OVER THE UNDAMAGED ZINC COATED SURFACE.
10. PROVIDE ADEQUATE VENTING AND DRAINING DURING GALVANIZING TO MEET THE REQUIREMENTS OF THE GALVANISER.
11. ABRASIVE BLAST CLEAN TO AS 1627 PART 4 CLASS SA 2½, WITH A MINIMUM SURFACE PROFILE OF 75 MICRONS. GALVANIZE THE STEELWORK IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS 4680.
12. ALL NUTS, BOLTS AND WASHERS TO BE GALVANIZED TO AS 1214 HOT-DIP GALVANIZED COATINGS ON THREADED FASTENERS (ISO METRIC COARSE THREAD SERIES).
13. FOR PIT WIDTH OUTSIDE THE RANGE PROVIDED IN THIS DRAWING, THE PIPE GRILL TO BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER.
14. MECHANICAL ANCHORS SHALL NOT BE USED IN LIEU OF CHEMICAL ANCHORS.



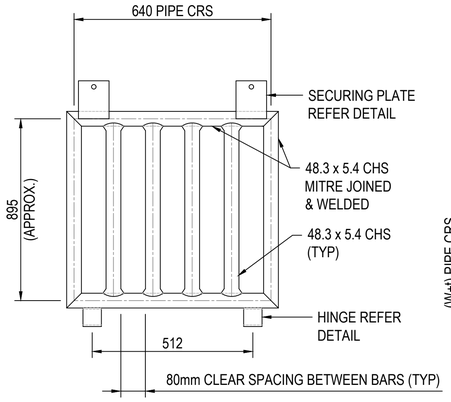
B - SECTION



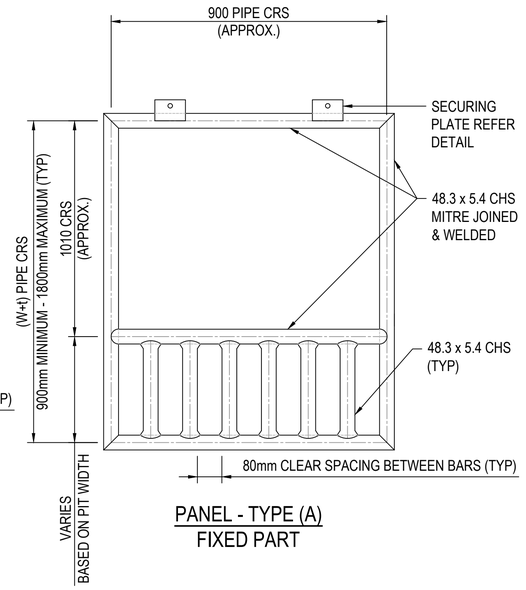
C - SECTION



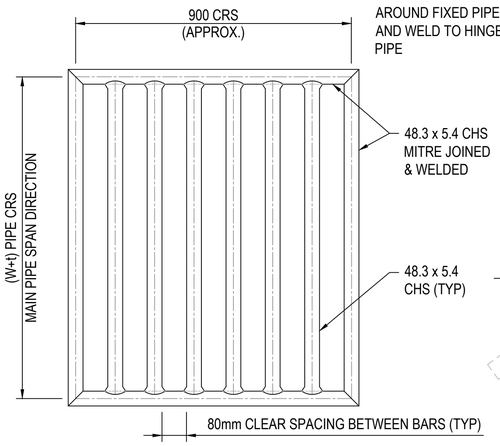
HINGE DETAIL



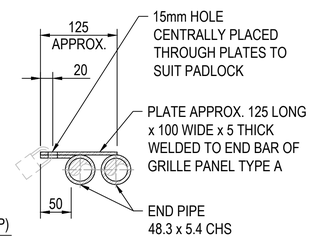
PANEL - TYPE (A)
HINGED PART



PANEL - TYPE (A)
FIXED PART



TYPICAL PANEL - TYPE (B)
(LAST PANEL WIDTH TO SUIT PIT LENGTH)



SECURING PLATE DETAIL

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APPD	DATE
B	SECOND REVISION			RD	VY	RM	19.04.17
A	FIRST REVISION			RD	VY	RM	25.11.15

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Melbourne Water
DRAINAGE STANDARD DRAWINGS

DRAFTER	DESIGNER	DESIGN MANAGER APPROVAL	PROJECT MANAGER APPROVAL
RD	GT	RM	VY
DRAFTING CHECK	ENGINEERING REVIEW		
BS	VY		

TITLE **FLAT PIPE GRILLS ARRANGEMENTS**

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
SCALE NTS	A1	7251/08/423	B
		CODE MWC DRAWING NUMBER	REV

7251/08/423 | MWC DRAWING NUMBER | B | REV