

7251/08/416
MVC DRAWING NUMBER

CODE

REV

A

B

C

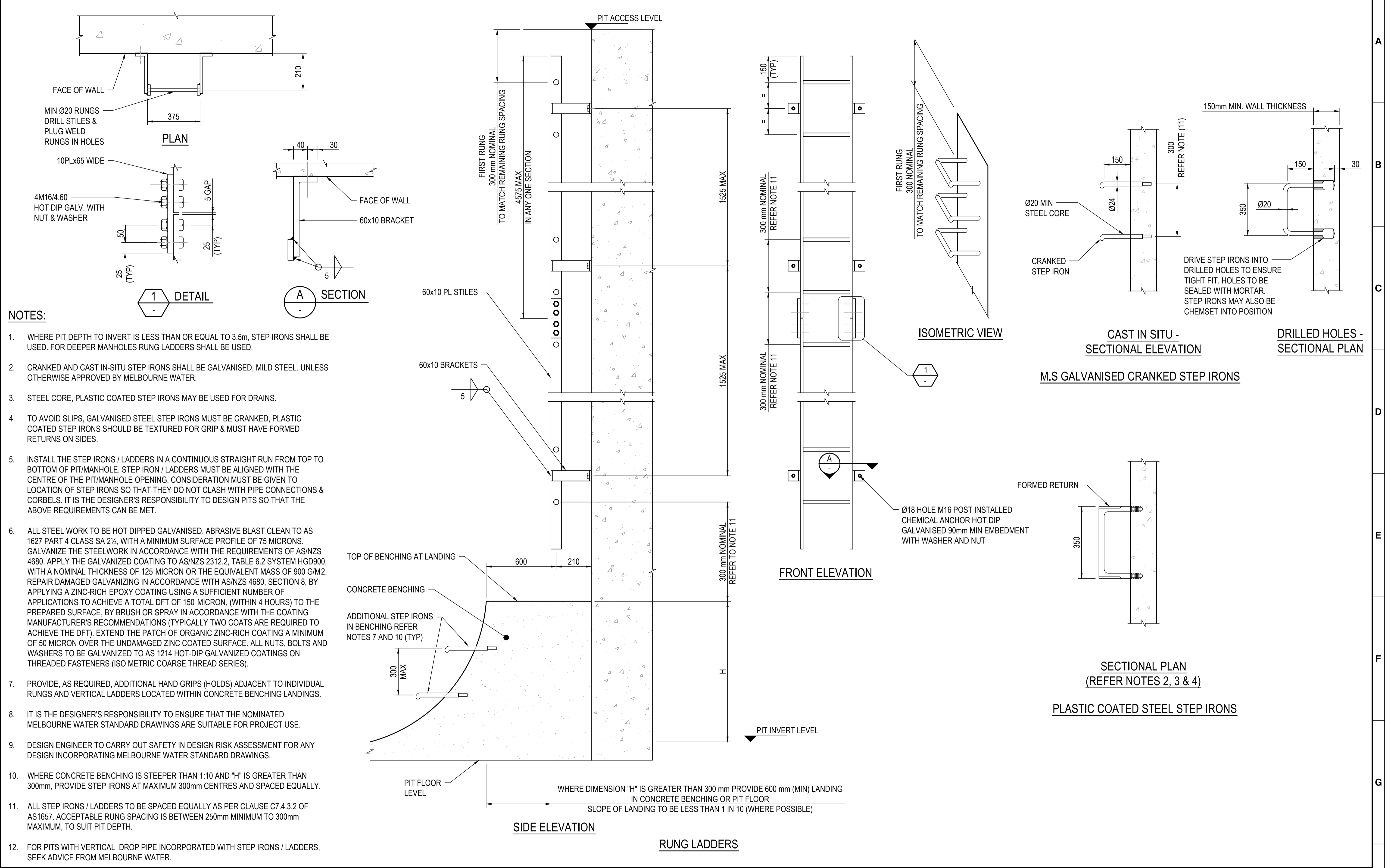
D

E

F

G

H



- NOTES:**
- WHERE PIT DEPTH TO INVERT IS LESS THAN OR EQUAL TO 3.5m, STEP IRONS SHALL BE USED. FOR DEEPER MANHOLES RUNG LADDERS SHALL BE USED.
 - CRANKED AND CAST IN-SITU STEP IRONS SHALL BE GALVANISED, MILD STEEL. UNLESS OTHERWISE APPROVED BY MELBOURNE WATER.
 - STEEL CORE, PLASTIC COATED STEP IRONS MAY BE USED FOR DRAINS.
 - TO AVOID SLIPS, GALVANISED STEEL STEP IRONS MUST BE CRANKED, PLASTIC COATED STEP IRONS SHOULD BE TEXTURED FOR GRIP & MUST HAVE FORMED RETURNS ON SIDES.
 - INSTALL THE STEP IRONS / LADDERS IN A CONTINUOUS STRAIGHT RUN FROM TOP TO BOTTOM OF PIT/MANHOLE. STEP IRON / LADDERS MUST BE ALIGNED WITH THE CENTRE OF THE PIT/MANHOLE OPENING. CONSIDERATION MUST BE GIVEN TO LOCATION OF STEP IRONS SO THAT THEY DO NOT CLASH WITH PIPE CONNECTIONS & CORBELS. IT IS THE DESIGNER'S RESPONSIBILITY TO DESIGN PITS SO THAT THE ABOVE REQUIREMENTS CAN BE MET.
 - ALL STEEL WORK TO BE HOT DIPPED GALVANISED. 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. APPLY THE GALVANIZED COATING TO AS/NZS 2312.2, 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 50 MICRON OVER THE UNDAMAGED ZINC COATED SURFACE. ALL NUTS, BOLTS AND WASHERS TO BE GALVANIZED TO AS 1214 HOT-DIP GALVANIZED COATINGS ON THREADED FASTENERS (ISO METRIC COARSE THREAD SERIES).
 - PROVIDE, AS REQUIRED, ADDITIONAL HAND GRIPS (HOLDS) ADJACENT TO INDIVIDUAL RUNGS AND VERTICAL LADDERS LOCATED WITHIN CONCRETE BENCHING LANDINGS.
 - IT IS THE DESIGNER'S RESPONSIBILITY TO ENSURE THAT THE NOMINATED MELBOURNE WATER STANDARD DRAWINGS ARE SUITABLE FOR PROJECT USE.
 - DESIGN ENGINEER TO CARRY OUT SAFETY IN DESIGN RISK ASSESSMENT FOR ANY DESIGN INCORPORATING MELBOURNE WATER STANDARD DRAWINGS.
 - WHERE CONCRETE BENCHING IS STEEPER THAN 1:10 AND "H" IS GREATER THAN 300mm, PROVIDE STEP IRONS AT MAXIMUM 300mm CENTRES AND SPACED EQUALLY.
 - ALL STEP IRONS / LADDERS TO BE SPACED EQUALLY AS PER CLAUSE C7.4.3.2 OF AS1657. ACCEPTABLE RUNG SPACING IS BETWEEN 250mm MINIMUM TO 300mm MAXIMUM, TO SUIT PIT DEPTH.
 - FOR PITS WITH VERTICAL DROP PIPE INCORPORATED WITH STEP IRONS / LADDERS, SEEK ADVICE FROM MELBOURNE WATER.

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<p>DRAFTER RD</p>		<p>DESIGNER GT</p>		<p>DESIGN MANAGER APPROVAL RM</p>		<p>PROJECT MANAGER APPROVAL VY</p>		<p>PROJECT DATUM</p>		<p>Original Size A1</p>		<p>MELBOURNE WATER CORPORATION</p>									
<p>DRAFTING CHECK BS</p>		<p>ENGINEERING REVIEW VY</p>		<p>SCALE NTS</p>		<p>7251/08/416</p>		<p>7251/08/416</p>		<p>MVC DRAWING NUMBER</p>		<p>A</p>									
<p>REV DESCRIPTION</p>										<p>COMPANY</p>		<p>PROJECT OR WO NUMBER</p>		<p>DRAWN</p>		<p>ENG. CHECK</p>		<p>PR. MAN. APPD.</p>		<p>DATE</p>	
<p>A FIRST REVISION</p>										<p>RD</p>		<p>VY</p>		<p>RM</p>		<p>25.11.15</p>		<p></p>			