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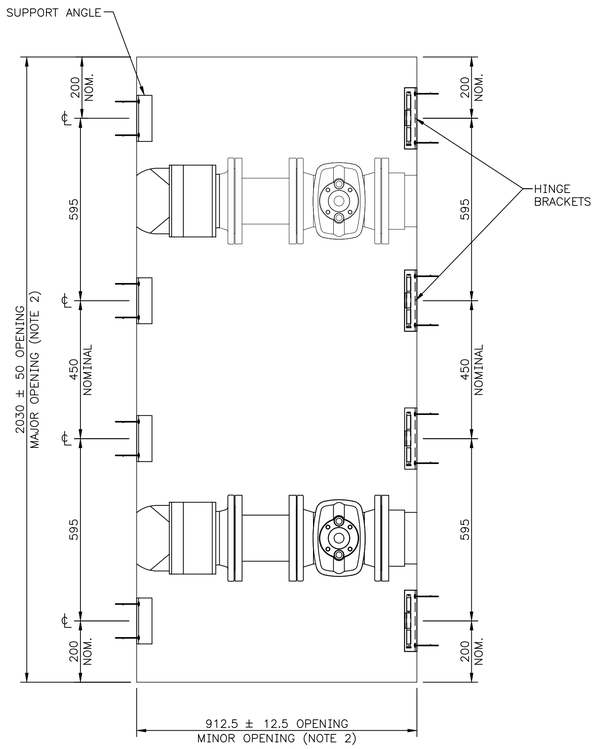
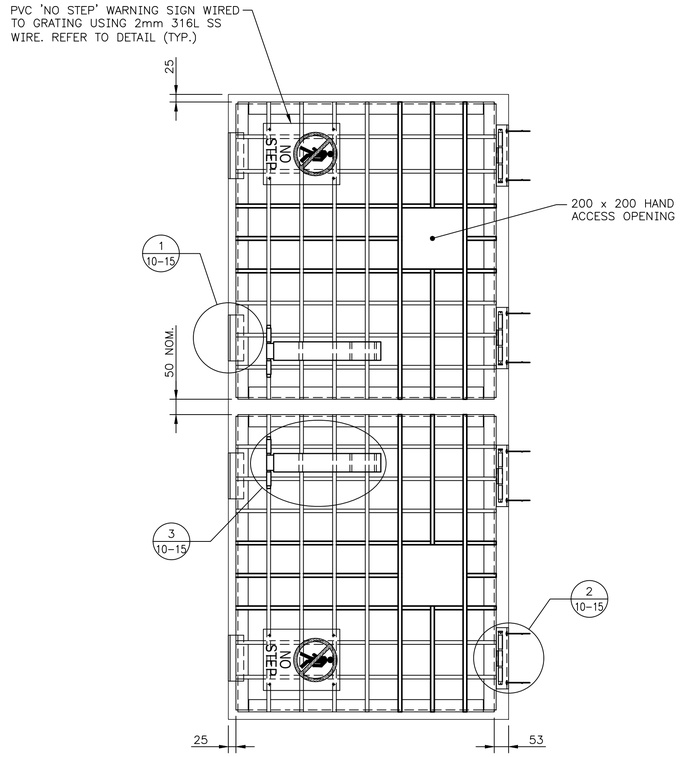
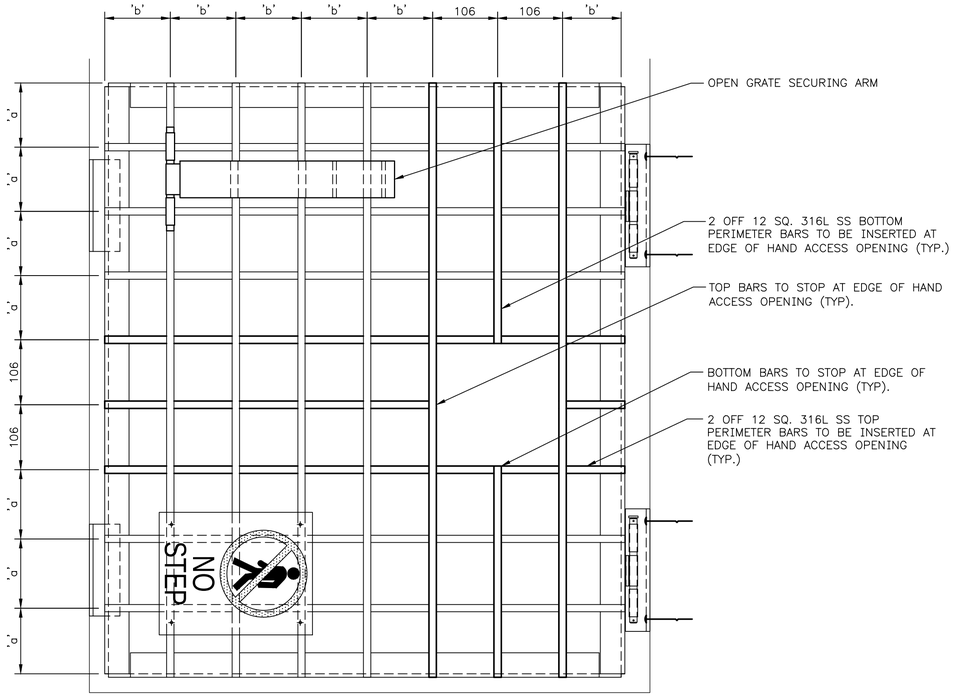


GRATING HINGE BRACKETS & SUPPORT ANGLES
PLAN
SCALE 1



GRATING ASSEMBLY
PLAN
SCALE 1



GRATING
PLAN
SCALE 2

NOTE

LOCATION OF SPINDLE FOR VALVE PIT NEEDS TO BE SITE CHECKED PRIOR TO MANUFACTURING GRATE

GRATING CONSTRUCTION

STEP 1 – THE 200 x 200 HAND ACCESS OPENING SHOWN ON THE DRAWING IS INDICATIVE ONLY AND SHALL BE DETERMINED TO SUIT THE OPERATIONS REQUIREMENT AND/OR EQUIPMENT BELOW AS APPROVED BY THE SUPERINTENDENT.

STEP 2 – TOP AND BOTTOM BARS, IN BOTH DIRECTIONS SHALL BE SET OUT SO THAT BAR SPACINGS ARE 125mm MAXIMUM FROM PERIMETER BARS EACH WAY.

GENERAL NOTES

1. THE TOLERANCED OPENING DIMENSIONS SHOWN ON THIS DRAWING ARE BASED ON THE RANGE OF PROPRIETRY 4 PART COVER/FRAME PRODUCTS AUTHORISED FOR USE ON A NOMINAL 2000x900 ACCESS OPENING.
2. DESIGNER/INSTALLER SHALL DETERMINE AND RECORD ACTUAL IN-SITU OPENING DIMENSIONS, BASED ON THE ESTABLISHED (MEASURED) DIMENSIONS OF THE TOP SLAB, AND OF THE ACCESS COVER/FRAME ASSEMBLY OPENING. GRATING DIMENSIONS 'a' AND 'b' SHALL THEN BE DETERMINED AS FOLLOWS:

$$'a' = \frac{\text{CLEAR MINOR OPENING DIMENSION} - 524}{12}$$

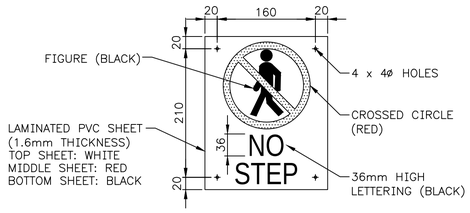
$$'b' = \frac{\text{CLEAR MAJOR OPENING DIMENSION} - 290}{6}$$

3. GUARDRAILING SHALL CONFORM WITH THE PERFORMANCE REQUIREMENTS OF AS1657.
4. GRATINGS SHALL NOT BE FABRICATED UNTIL THE INSTALLED POSITION OF THE INLET KNIFE GATE VALVE AND VALVE SPINDLE HAVE BEEN GRATING BAR SPACING DIMENSIONS SHALL BE RECORDED FOLLOWING INSTALLATION AND ON-SITE MEASUREMENT AND SHALL BE PROVIDED AS PART OF AS-CONSTRUCTED INFORMATION REQUIREMENTS.

REFERENCE DRAWINGS

COMMON SPECIFICATION NOTES	CA01-1-3
TYPE 40 PUMPING STATION – NO VALVE PIT – PRECAST SLABS & COVERS WITH TEMPORARY GUARDRAIL SYSTEM:	
ARRANGEMENT AND REINFORCEMENT	CA01-10-22-1
TYPE 40 PUMPING STATION – NO VALVE PIT – PRECAST SLABS & COVERS WITH PERMANENT GUARDRAIL SYSTEM:	
ARRANGEMENT AND REINFORCEMENT	CA01-10-22-2
TYPE 40 PUMPING STATION – WITH VALVE PIT – PRECAST SLABS & COVERS WITH TEMPORARY GUARDRAIL SYSTEM:	
ARRANGEMENT	CA01-10-6-1
REINFORCEMENT	CA01-10-6-2
TYPE 40 PUMPING STATION – WITH VALVE PIT – PRECAST SLABS & COVERS WITH PERMANENT GUARDRAIL SYSTEM:	
ARRANGEMENT	CA01-10-6-3
REINFORCEMENT	CA01-10-6-4
PREVENTION OF FALLS	
WET WELL – TEMPORARY & PERMANENT GUARDRAIL SYSTEM – GRATING DETAILS	CA01-10-14-1
TEMPORARY & PERMANENT GUARDRAIL SYSTEM – GRATING DETAILS	CA01-10-15
TEMPORARY GUARDRAIL SYSTEM – GUARDRAIL DETAILS	CA01-10-16
PERMANENT GUARDRAIL SYSTEM – GUARDRAIL DETAILS	CA01-10-17

FOR COMMON SPECIFICATION NOTES REFER DRAWING CA01-1-3



PVC 'NO STEP' WARNING SIGN PLAN – DETAIL
SCALE 2

1 (1:10 AT A1) 100 50 0 100 200 300 400 500 600 700 mm

2 (1:5 AT A1) 100 50 0 100 200 300 mm

'Input' Indicates Information Required From Design Engineer

THIS DRAWING IS DERIVED FROM CA01-10-14-2A

ISSUE	DATE	GRID	REVISION	DRN	REC	APPD

DESIGN SURVEY NONE | VERTICAL DATUM NONE | DES CALC S. PAN
COORDINATE SYS NONE | DES CHD K. PHAM
ASCON SURVEY NONE | DES REF NONE | DRN J.SAUNDERS | Q.C. CHD P. MIRCO

NORTH POINT

'Input' Designers Identification Label

RECOMMENDED Steve Pan 01/09/2022 S. PAN SENIOR ENGINEER WW STANDARDS
APPROVED Kiet Pham 01/09/2022 K. PHAM PRINCIPAL ENGINEER WW STANDARDS

WATER CORPORATION

WASTEWATER – EXAMPLE DRAWING
WASTEWATER PUMPING STATIONS AND PRESSURE MAINS
TYPE 40 PUMPING STATION – PREVENTION OF FALLS
VALVE PIT – TEMP & PERM GUARDRAIL SYSTEM – GRATING ARRANGEMENT

FILE 'Input' | PROJECT 'Input' | PLAN CA01-10-14-2 | CAD | ISSUE A | ORIGINAL SHEET SIZE A1 | MF

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CAD MANAGEMENT_NOT READ ONLY\WWCS\STANDARD DRAWINGS\PUMP STATIONS\CAD\CA01 – 2022\CA01-010-014-02A 08:01 08/09/2022 MIRCOPO/NB41268

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