DRAWING INDEX

NOTES:

1. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL TO ENSURE THAT THEY ARE USING THE CURRENT VERSION OF THESE DRAWINGS. ALEXANDRINA COUNCIL ACCEPTS NO LIABILITY FOR ISSUES ARISING FROM THE USE OF SUPERSEDED DRAWINGS.

2. THESE DRAWINGS MAY NOT SUIT ALL APPLICATIONS. ANY PROPOSED ALTERATIONS TO THESE DRAWINGS SHOULD BE REFERRED TO ALEXANDRINA COUNCIL FOR APPROVAL.

3. ANY INCONSISTENCIES OR OMISSIONS IN THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF ALEXANDRINA COUNCIL FOR CLARIFICATION OR AMENDMENT.

4. PRINTED COPIES OF THESE DRAWINGS ARE UNCONTROLLED.

5. THE USE OF THESE STANDARD DRAWINGS DOES NOT NEGATE THE DESIGNERS RESPONSIBILITY TO ENSURE THAT THE DESIGN IS SAFE AND FIT FOR PURPOSE.

6. THESE DRAWINGS ARE INTENDED AS A GUIDE ONLY. IT IS THE DESIGNERS RESPONSIBILITY TO INCLUDE ANY RELEVANT PROJECT-SPECIFIC DETAIL OR INFORMATION.

7. THE ALEXANDRINA COUNCIL DOES NOT ACCEPT PRIVATE PUMPING SYSTEMS AS A METHOD OF DISCHARGE INTO THE GREATER SEWERAGE NETWORK. ALLOTMENT CONNECTION INTO SEWERAGE NETWORK SHALL BE VIA GRAVITY CONNECTION ONLY.

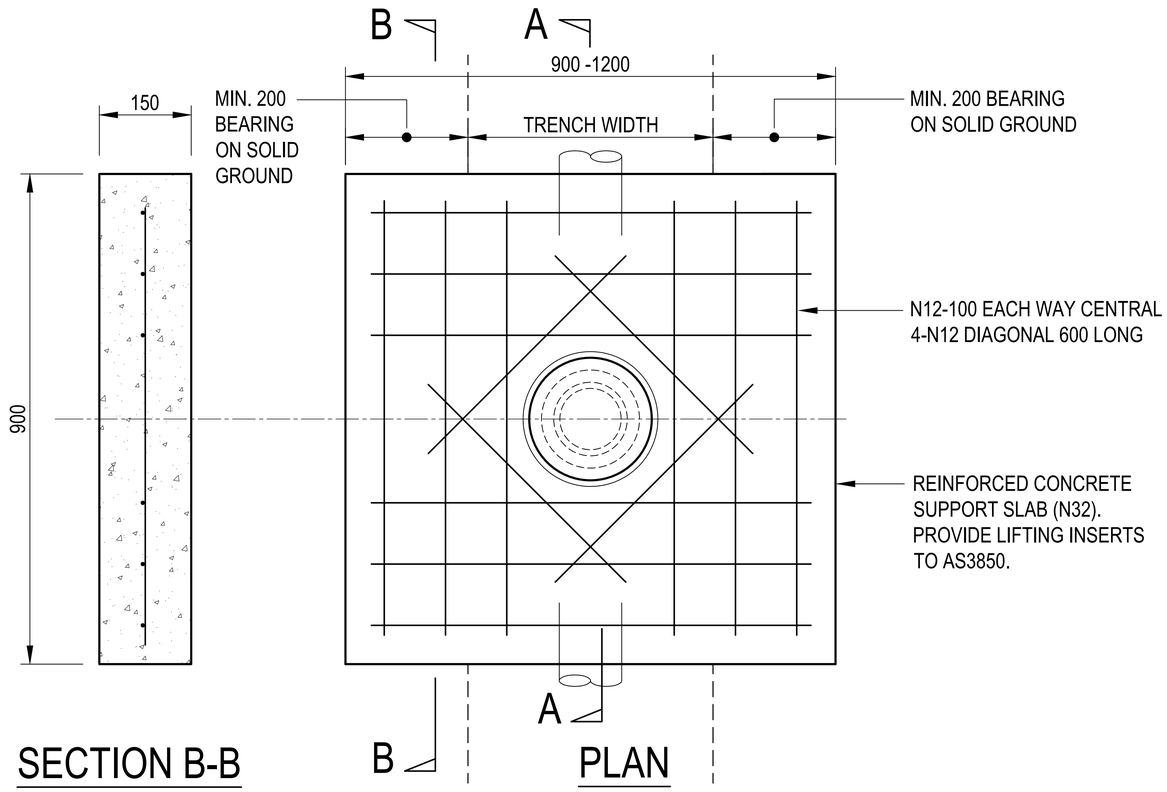
Filename: V:\2021\212500 - 212599\212524 - AC - Technical Drawing Suite\Drafting\AC-CWMS-SD-00.dwg

APP'D S.RATCLIFF
DATE -
TEAM LEADER WATER INFRASTRUCTURE

ALEXANDRINA COUNCIL
Ph:(08) 8555 7000
11 Cadell Street
PO Box 21
GOOLWA SA 5214
ABN: 20 785 465 351

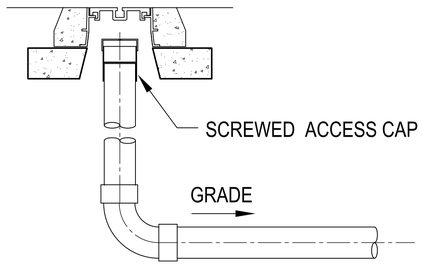
Alexandrina Wastewater

PROJECT: CWMS TYPICAL DRAWINGS
PLAN #: AC-CWMS-SD
TITLE: DRAWING INDEX AND NOTES
SHEET: 00
REV: A

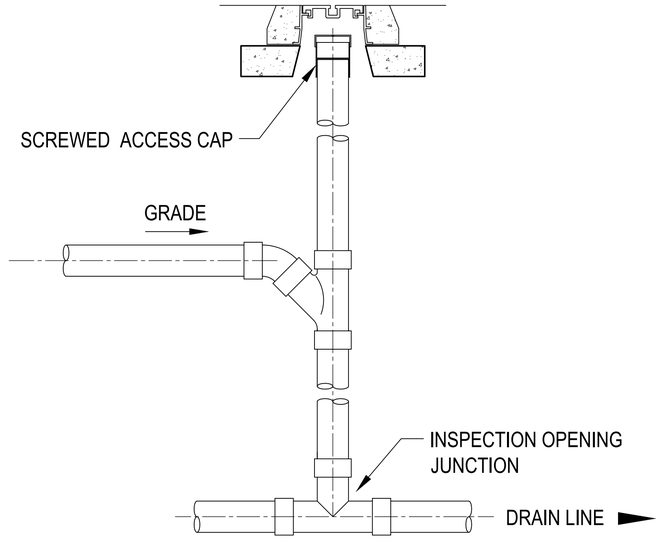


SECTION B-B

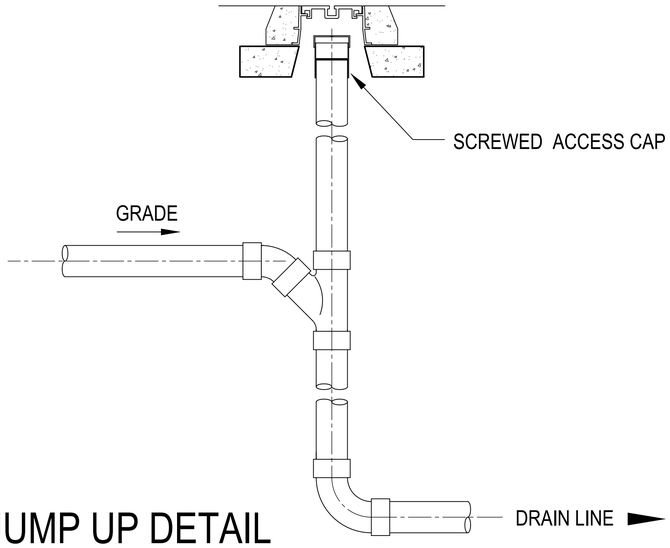
PLAN



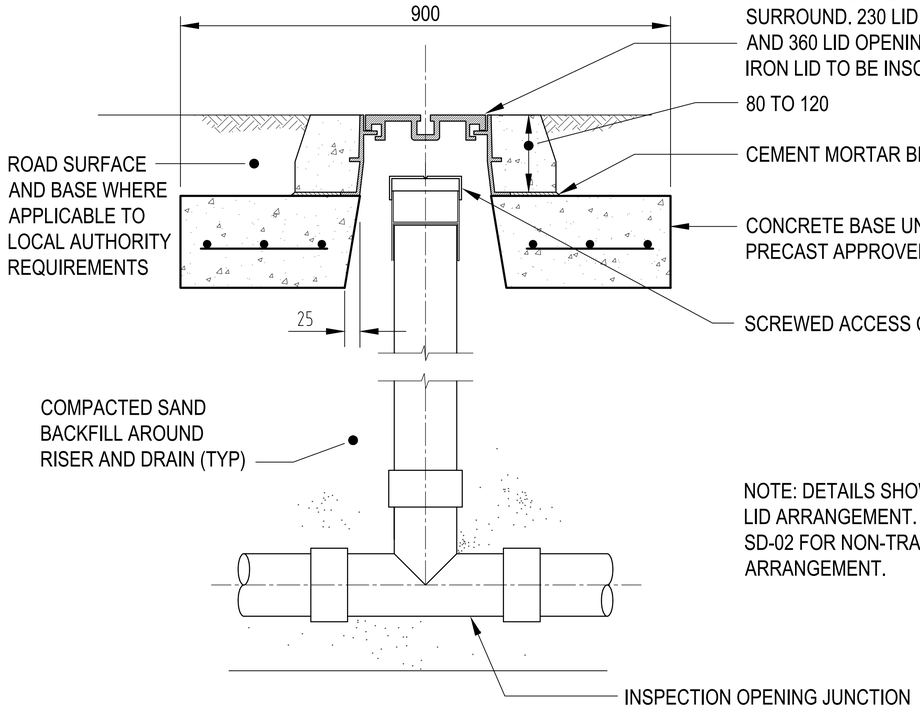
END OF LINE DETAIL



THROUGH DRAIN JUMP UP DETAIL



IN LINE JUMP UP DETAIL



SECTION A-A

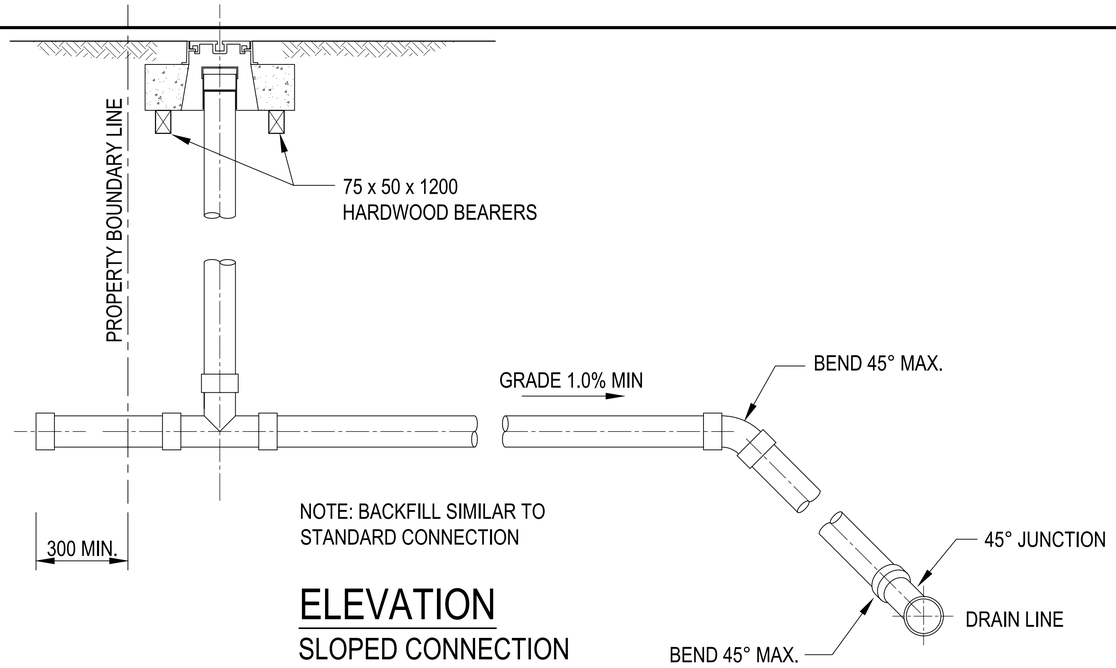
TYPICAL FLUSHING POINT DETAILS

1:20

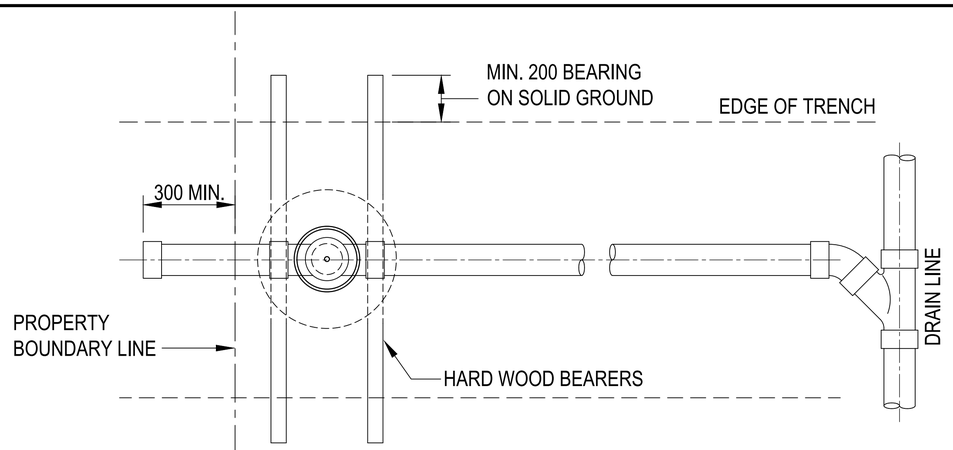
Note: The Alexandrina Council does not accept private pumping systems as a method of discharge into the greater sewerage network. Allotment connection into sewerage network shall be via gravity connection only.

Filename V:\2021\212500 - 212599\212524 - AC - Technical Drawing Suite\Drafting\AC-CWMS-SD-01.dwg

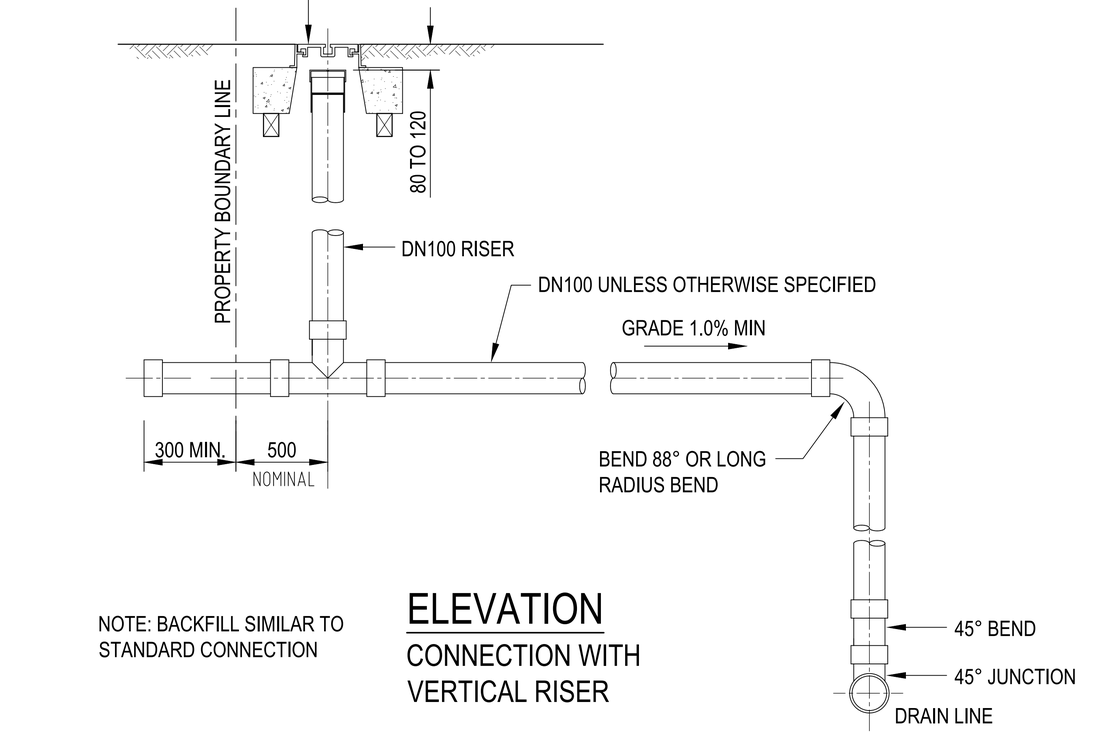
	APP'D S.RATCLIFF DATE - TEAM LEADER WATER INFRASTRUCTURE	ALEXANDRINA COUNCIL Ph:(08) 8555 7000 11 Cadell Street PO Box 21 GOOLWA SA 5214 ABN: 20 785 405 351	Alexandrina Wastewater	PROJECT CWMS TYPICAL DRAWINGS	PLAN # AC-CWMS-SD
				TITLE FLUSHING POINT AND INSPECTION OPENING DETAILS	SHEET 01 REV A



ELEVATION
SLOPED CONNECTION

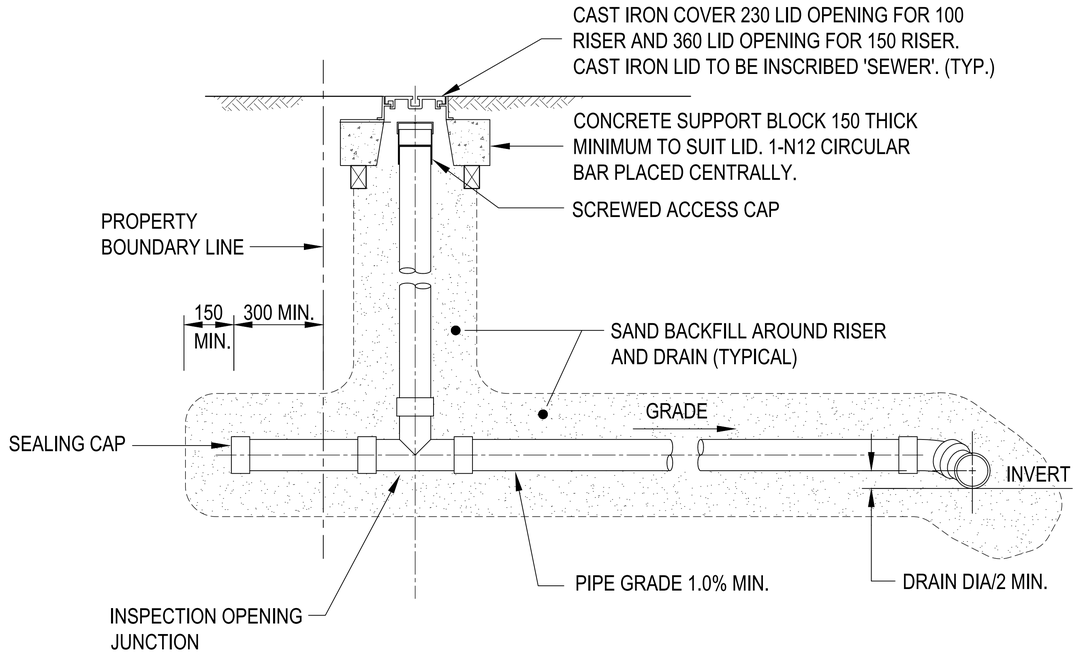


PLAN
STANDARD CONNECTION



NOTE: BACKFILL SIMILAR TO
STANDARD CONNECTION

ELEVATION
CONNECTION WITH
VERTICAL RISER



ELEVATION
STANDARD CONNECTION

Note: The Alexandrina Council does not accept private pumping systems as a method of discharge into the greater sewerage network. Allotment connection into sewerage network shall be via gravity connection only.

TYPICAL PROPERTY CONNECTION DETAILS
1:20

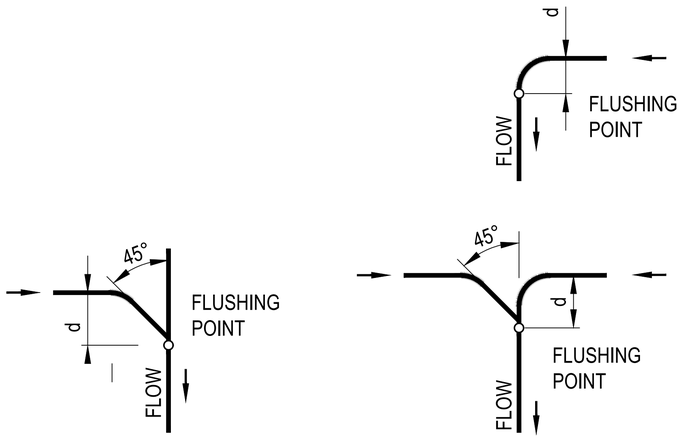
Filename: V:\2021\212500 - 215599\212524 - AC - Technical Drawing Suite\Drafting\AC-CWMS-SD-02.dwg

APP'D S.RATCLIFF DATE -
TEAM LEADER WATER INFRASTRUCTURE

ALEXANDRINA COUNCIL
Ph:(08) 8555 7000
11 Cadell Street
PO Box 21
GOOLWA SA 5214
ABN: 20 785 405 351

Alexandrina Wastewater

PROJECT: CWMS TYPICAL DRAWINGS
PLAN #: AC-CWMS-SD
TITLE: PROPERTY CONNECTIONS DETAILS
SHEET: 02
REV: A

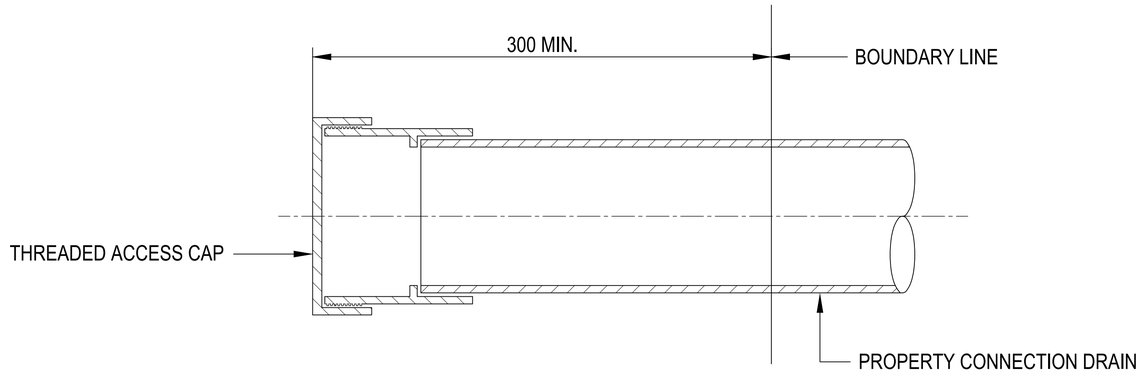


ON-LINE FLUSHING POINT LOCATION

N.T.S.

d = 500mm FOR DN100, 600mm FOR DN150 AND
800mm FOR DN225 LINES.

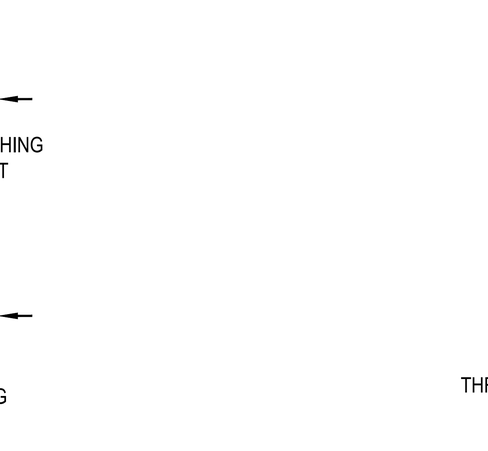
NOTE: CHAINAGES ON PLAN ARE TYPICALLY
SHOWN AS THE JUNCTION / BRANCH CHAINAGE.
FLUSHING POINT TO BE LOCATED AS ABOVE.



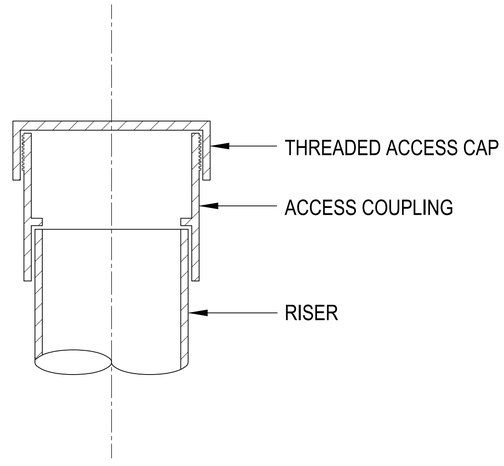
TYPICAL THREADED CAP FOR PROPERTY CONNECTIONS

N.T.S.

TYPICAL 'Y' JUNCTION CONNECTION - TYPE 1



TYPICAL 'Y' JUNCTION CONNECTION - TYPE 2



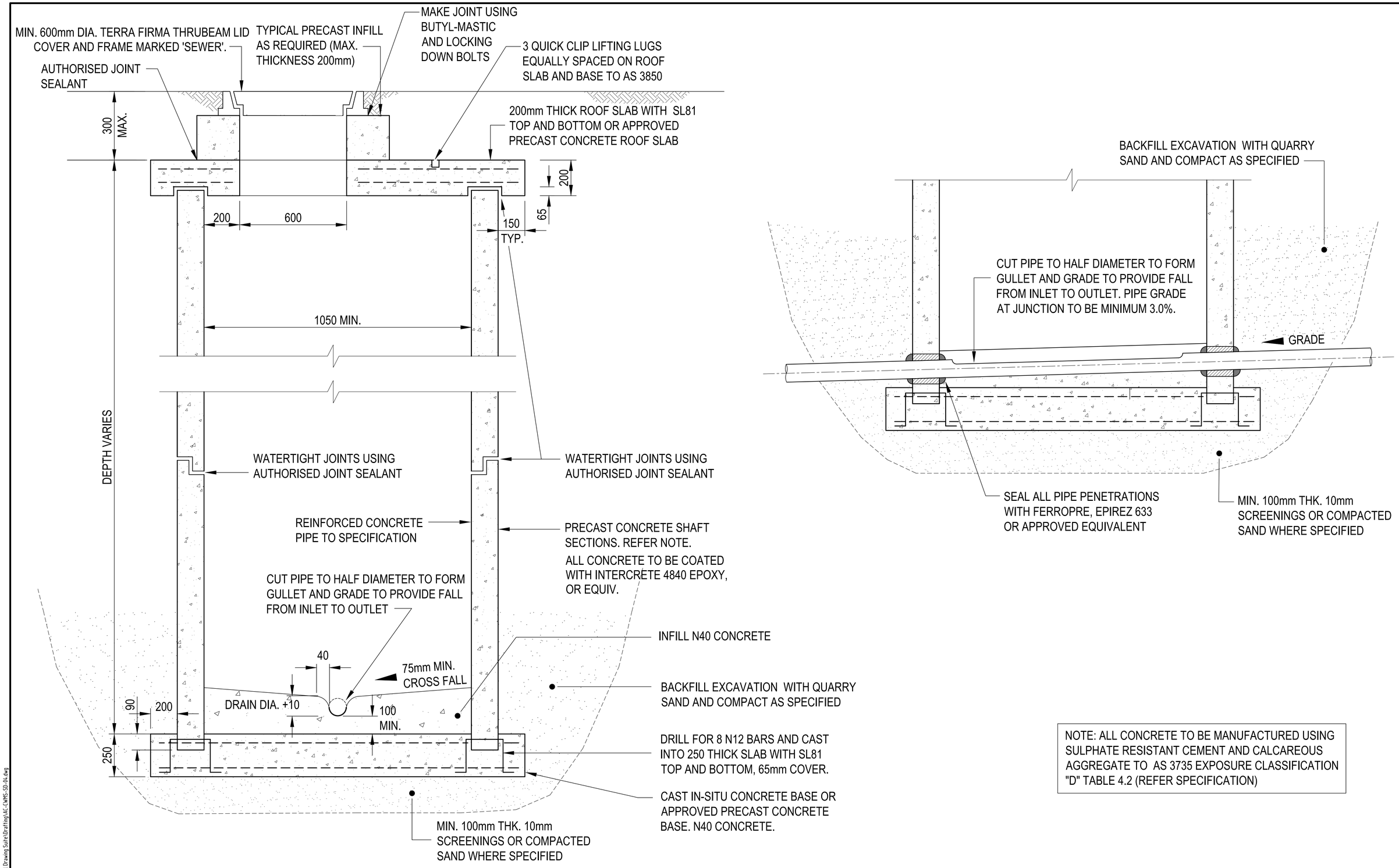
TYPICAL SCREWED ACCESS CAP FOR FLUSHING POINT AND PROPERTY CONNECTION RISERS

N.T.S.

Note: The Alexandrina Council does not accept private pumping systems as a method of discharge into the greater sewerage network. Allotment connection into sewerage network shall be via gravity connection only.

		APP'D S.RATCLIFF DATE - TEAM LEADER WATER INFRASTRUCTURE	ALEXANDRINA COUNCIL Ph:(08) 8555 7000 11 Cadell Street PO Box 21 GOOLWA SA 5214 ABN: 20 785 465 351	Alexandrina Wastewater	PROJECT CWMS TYPICAL DRAWINGS	PLAN # AC-CWMS-SD
					TITLE FLUSHING POINT AND PROPERTY CONNECTION DETAILS	SHEET 03 REV A

Filename: V:\2021\212500 - 212599\212524 - AC - Technical Drawing Suite\Drafting\AC-CWMS-SD-03.dwg



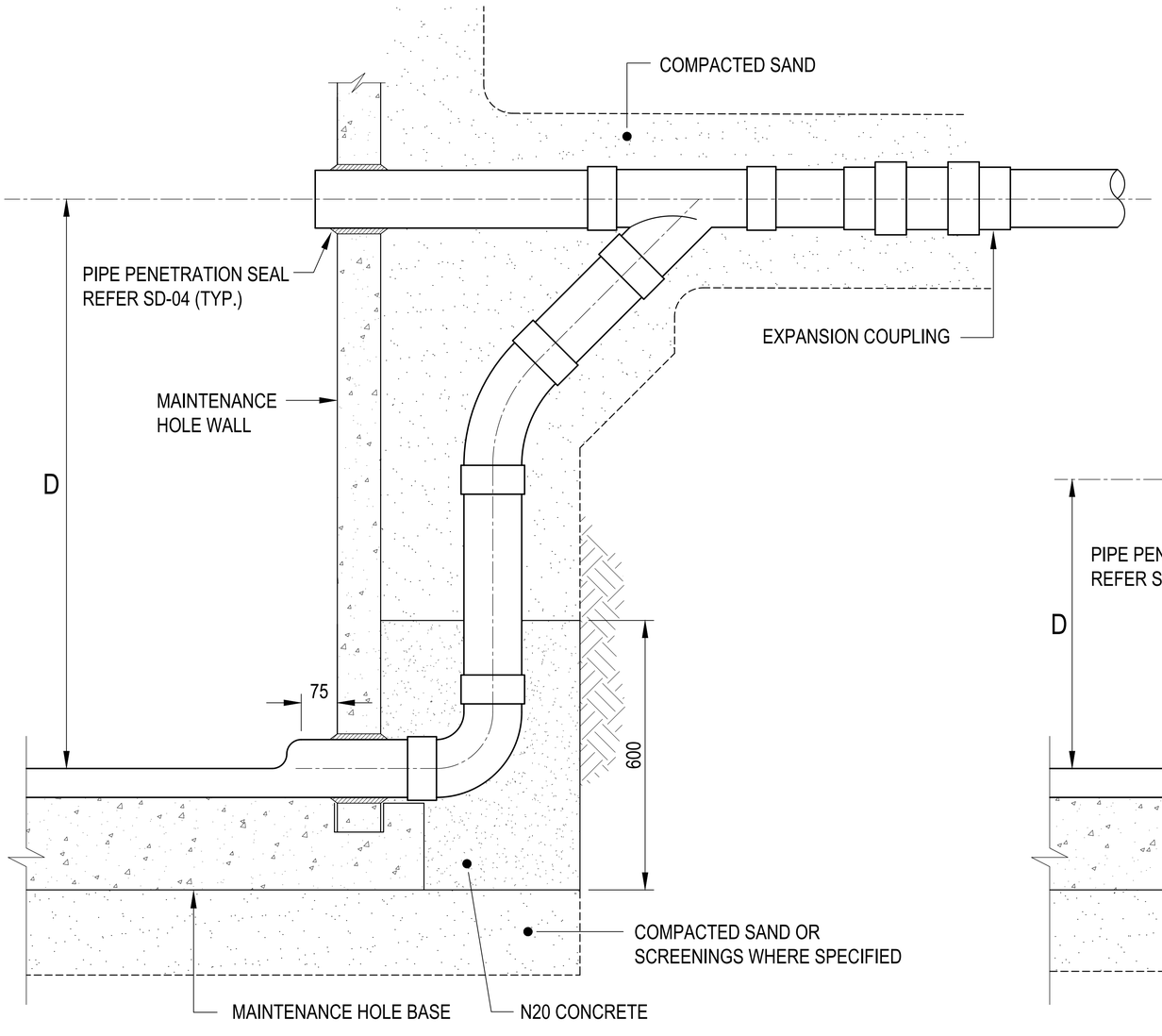
NOTE: ALL CONCRETE TO BE MANUFACTURED USING SULPHATE RESISTANT CEMENT AND CALCAREOUS AGGREGATE TO AS 3735 EXPOSURE CLASSIFICATION "D" TABLE 4.2 (REFER SPECIFICATION)

TYPICAL MAINTENANCE HOLE DETAIL FOR DN1050 TO DN1500

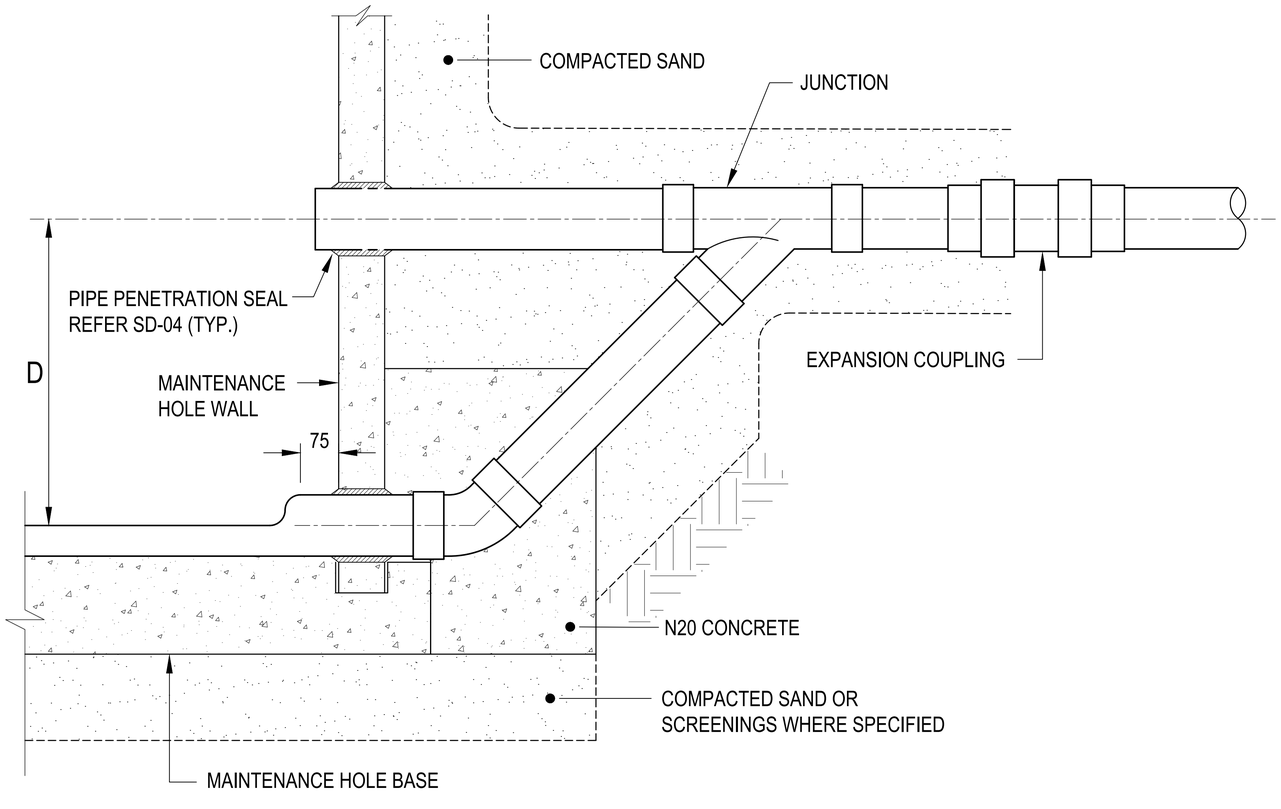
1:20

		APP'D S.RATCLIFF DATE - TEAM LEADER WATER INFRASTRUCTURE	ALEXANDRINA COUNCIL Ph:(08) 8555 7000 11 Cadell Street PO Box 21 GOOLWA SA 5214 ABN: 20 785 465 351	PROJECT CWMS TYPICAL DRAWINGS	PLAN # AC-CWMS-SD
				TITLE MAINTENANCE HOLE DN1050 TO DN1500	SHEET 04 / REV B

Filename: V:\2021\212500 - 212599\212524 - AC - Technical Drawing Suite\Drafting\AC-CWMS-SD-04.dwg



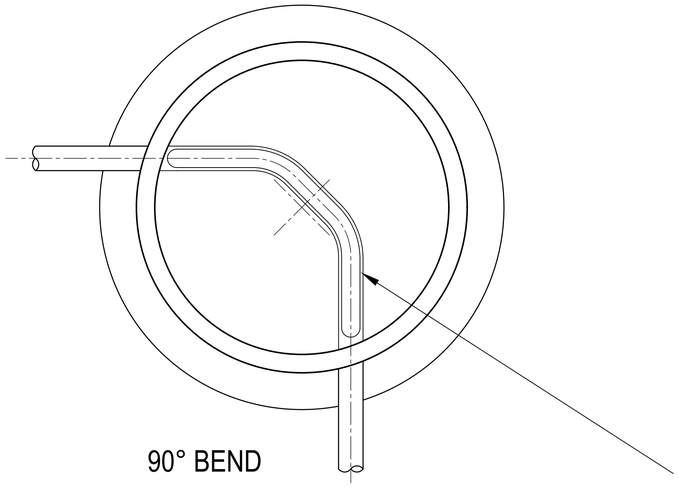
DROP MAINTENANCE HOLE DETAIL WHEN D > 600

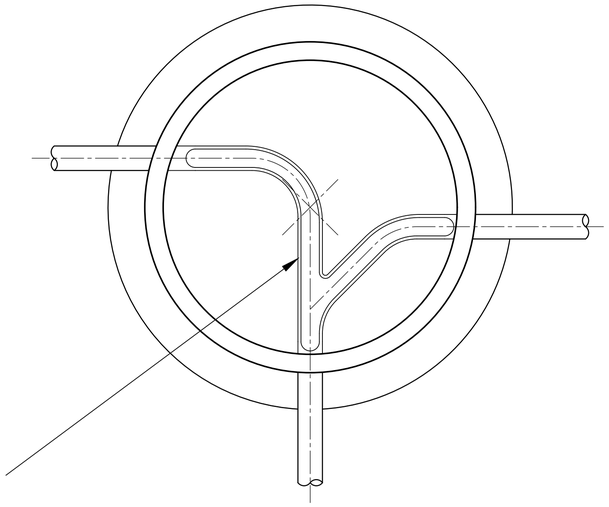


DROP MAINTENANCE HOLE DETAIL WHEN D < 600

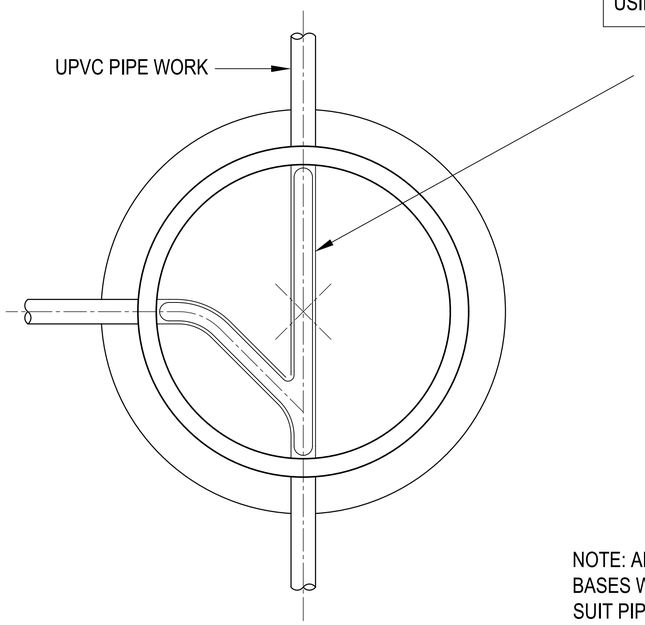
		APP'D S.RATCLIFF DATE - TEAM LEADER WATER INFRASTRUCTURE	ALEXANDRINA COUNCIL Ph:(08) 8555 7000 11 Cadell Street PO Box 21 GOOLWA SA 5214 ABN: 20 785 405 351	PROJECT CWMS TYPICAL DRAWINGS	PLAN # AC-CWMS-SD
				TITLE DROP MAINTENANCE HOLE DETAILS	SHEET 05 / REV A

Filename: V:\2021\217580 - 217599\217524 - AC - Technical Drawing Suite\Drafting\AC-CWMS-SD-05.dwg

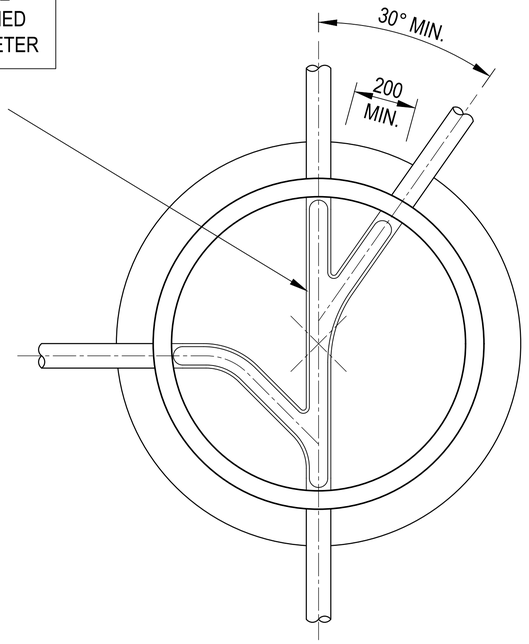




TYPICAL PLAN VIEWS OF MAINTENANCE HOLE JUNCTIONS WITH GULLETS FORMED USING UPVC PIPES CUT TO HALF DIAMETER



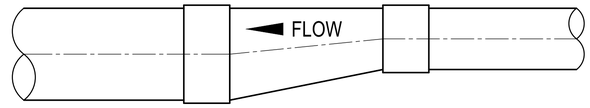
NOTE: APPROVED PRECAST CONCRETE BASES WITH PRE-BENCHED GULLIES TO SUIT PIPE CONFIGURATION CAN BE USED



JUNCTION & BEND

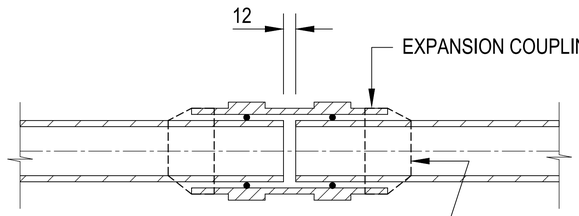
MULTIPLE ENTRY DETAILS

TYPICAL MAINTENANCE HOLE PIPE CONFIGURATIONS



NOTE: ALL PIPES TO JOIN SOFFIT TO SOFFIT

TYPICAL PIPE REDUCTION OUTSIDE MAINTENANCE HOLE



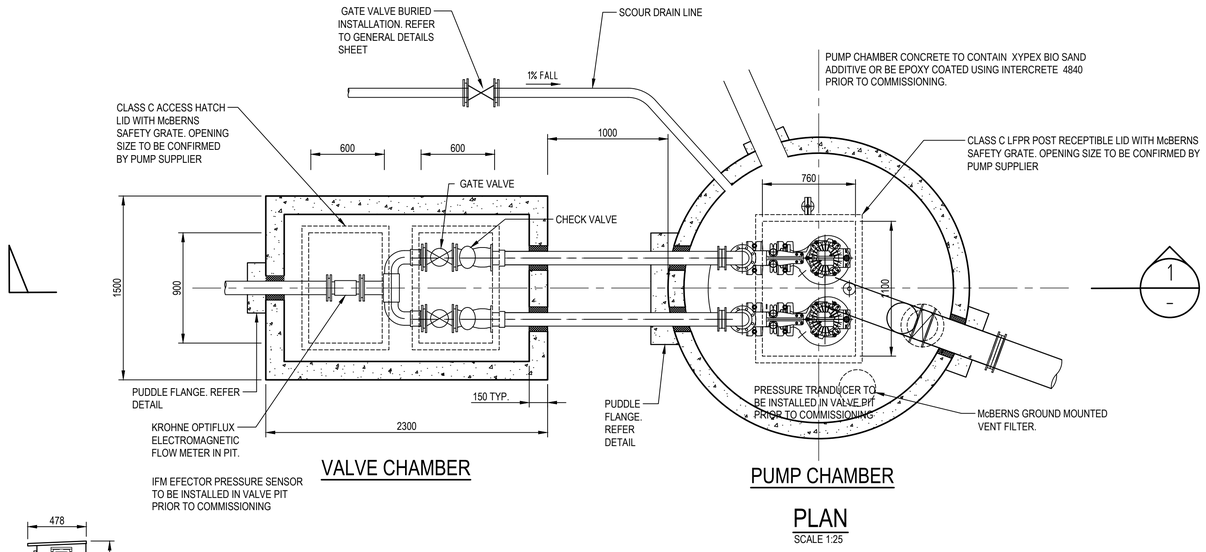
NOTE: EXPANSION COUPLINGS TO BE FITTED WITHIN 450mm OF ALL MAINTENANCE HOLE AND PUMP SUMP ENTRY AND MAINTENANCE HOLE EXITS. TO BE WRAPPED IN DENSO TAPE.

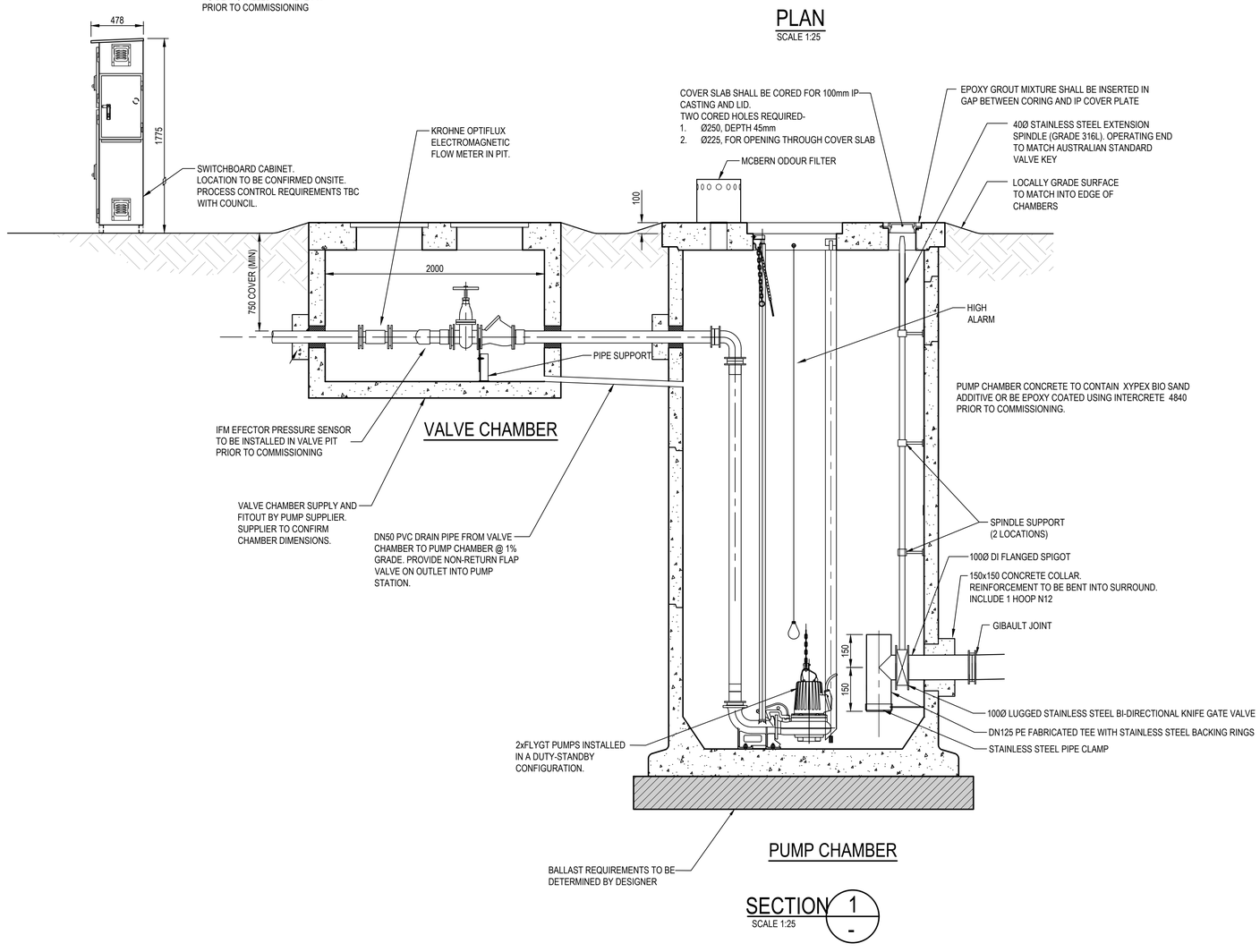
EXPANSION JOINT DETAIL

1:10

	APP'D S.RATCLIFF DATE - TEAM LEADER WATER INFRASTRUCTURE	ALEXANDRINA COUNCIL Ph:(08) 8555 7000 11 Cadell Street PO Box 21 GOOLWA SA 5214 ABN: 20 785 405 351	PROJECT CWMS TYPICAL DRAWINGS	PLAN # AC-CWMS-SD	
			TITLE MAINTENANCE HOLE JUNCTION DETAILS	SHEET 06	REV A

Filename V:\2021\212500 - 212599\212524 - AC - Technical Drawing Suite\Drafting\AC_CWMS_SD_06.dwg





PUMP CHAMBER DIMENSIONS, PIPE SIZES AND VALVE SIZES ARE SHOWN INDICATIVELY ONLY. IT IS THE DESIGNER'S RESPONSIBILITY TO DETERMINE SPECIFIC DIMENSIONS. THE SELECTED PUMP DUTY FLOW AND HEAD SHALL BE CLEARLY STATED ON THE DESIGN DRAWINGS.

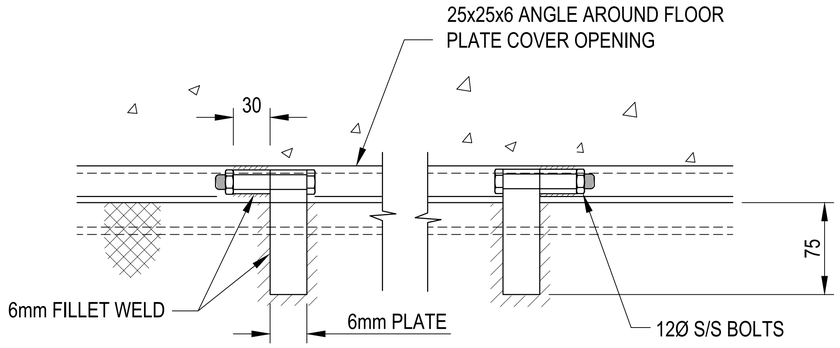
NOTES:

1. ALL FITTINGS AND FIXTURES TO BE 316 GRADE STAINLESS STEEL.
2. ALL PUMP STATION ANCILLARY ITEMS SHALL BE PROVIDED AS PART OF THE PUMP STATION COMMISSIONING
3. BIO-SANS ADDITIVE OF CONCRETE MIX

NOTE: ALL CONCRETE TO BE MANUFACTURED USING SULPHATE RESISTANT CEMENT AND CALCAREOUS AGGREGATE TO AS 3735 EXPOSURE CLASSIFICATION "D" TABLE 4.2 (REFER SPECIFICATION)

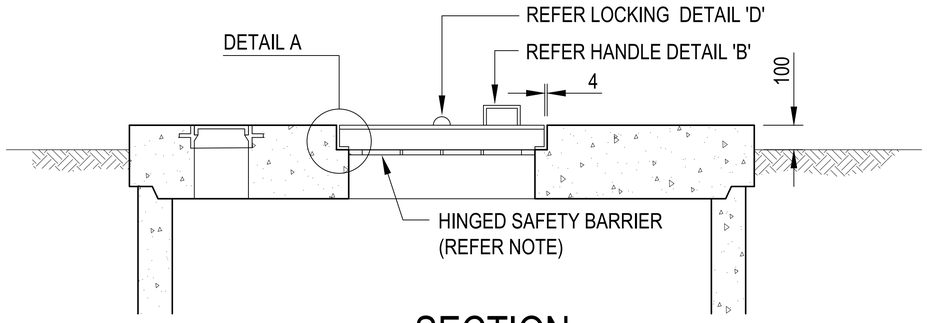
Filename: V:\2021\212500 - 215991\215924 - AC - Technical Drawing Suite\Drafting\AC-CWMS-SD-07.dwg

	APP'D S.RATCLIFF	DATE -	ALEXANDRINA COUNCIL	PROJECT CWMS TYPICAL DRAWINGS	PLAN # AC-CWMS-SD
	TEAM LEADER WATER INFRASTRUCTURE		Ph:(08) 8555 7000 11 Cadell Street PO Box 21 GOOLWA SA 5214 ABN: 20 785 495 351	TITLE SUBMERSIBLE PUMPING STATION PLAN AND SECTION	SHEET 07 / REV B



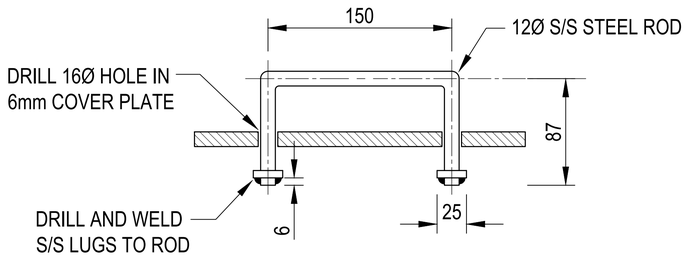
HINGE DETAIL C

MESH SAFETY BARRIER MANUFACTURED FROM 6Ø S/S BARS AT 75mm CTS WITH ALL BARS RESISTANCE WELDED. MESH WELDED TO 50mm S/S ANGLE FRAME. THE SAFETY BARRIER SHALL BE HINGED TO THE COVER FRAME TO SWING UP FOR ACCESS TO PUMP SUMP. BRACKETS SHALL BE PROVIDED TO SUPPORT BARRIER IN OPEN POSITION.

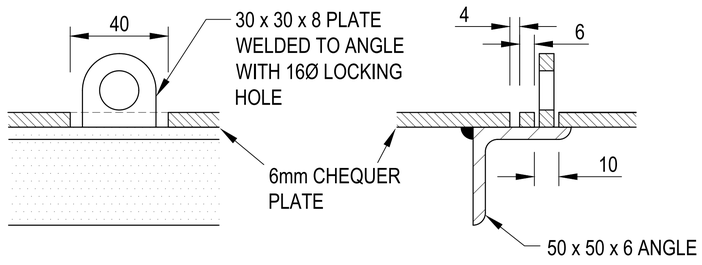


SECTION

1:20



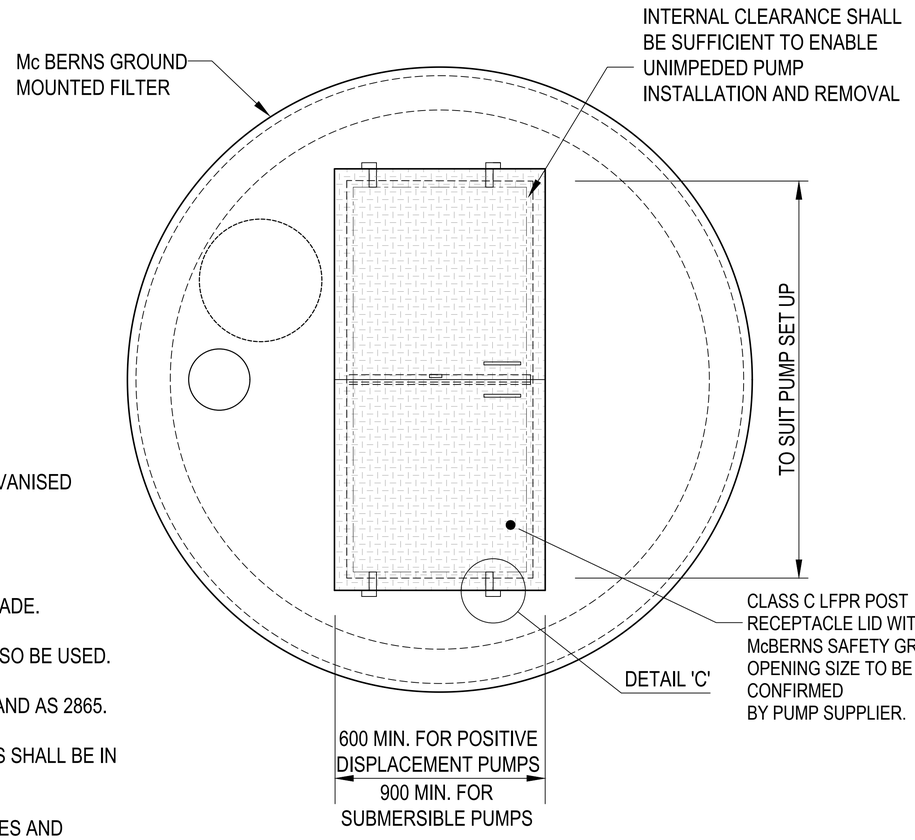
HANDLE DETAIL B



LOCKING DETAIL D

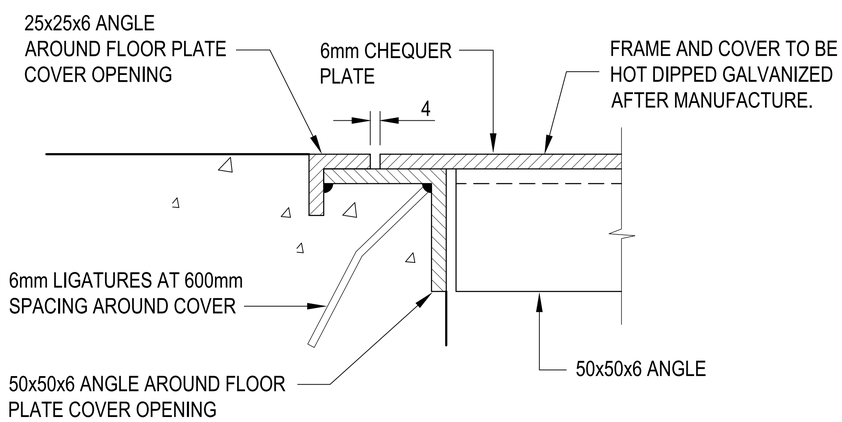
NOTES:

1. ALL MILD STEEL ELEMENTS SHALL BE HOT DIP GALVANISED AFTER FABRICATION.
2. ALL WELDS SHALL BE CONTINUOUS WELDS.
3. ALL STAINLESS STEEL ELEMENTS SHALL BE 316 GRADE.
4. ALTERNATIVE APPROVED ACCESS COVERS CAN ALSO BE USED.
5. COVER SHALL CONFORM TO AS/NZS 3996, AS 1657 AND AS 2865.
6. SAFETY SIGNS AND CONFINED SPACE ENTRY SIGNS SHALL BE IN ACCORDANCE WITH AS 1319.
7. ALTERNATIVE DESIGN COMPRISING FLUSHED HINGES AND FLUSHED HANDLES SHALL BE USED WHERE PUMP STATION IS LOCATED IN PUBLIC FOOTWAYS TO AVOID TRIPPING HAZARDS.
8. COVER DETAILS ARE TO BE CONFIRMED WITH THE APPROPRIATE W.I.E. ASSET OWNER AND/OR OPERATOR.



PLAN

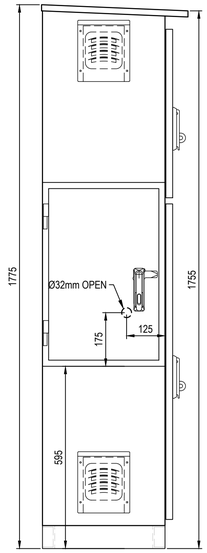
1:20



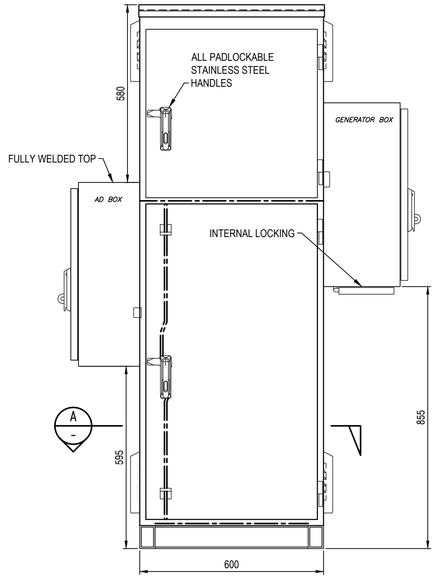
DETAIL A

Filename: V:\2021\212500 - 212599\212524 - AC - Technical Drawing Suite\Drafting\AC-CWMS-SD-08.dwg

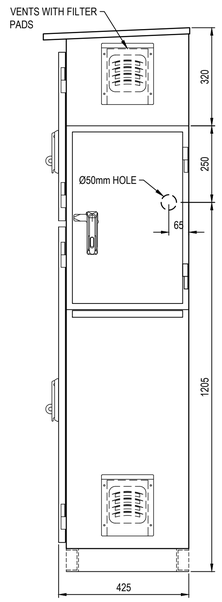
	APP'D S.RATCLIFF DATE - TEAM LEADER WATER INFRASTRUCTURE	ALEXANDRINA COUNCIL Ph:(08) 8555 7000 11 Cadell Street PO Box 21 GOOLWA SA 5214 ABN: 20 785 405 351	Alexandrina Wastewater	PROJECT CWMS TYPICAL DRAWINGS	PLAN # AC-CWMS-SD
				TITLE PUMP STATION LID DETAIL	SHEET 08 / REV A



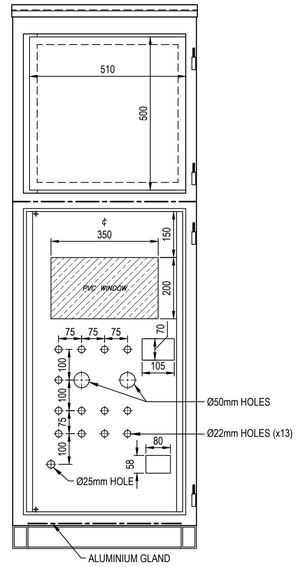
SIDE ELEV.



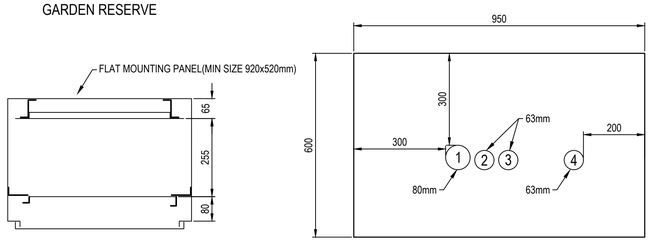
FRONT ELEVATION
MAIN SWITCHBOARD RIVERSIDE DRIVE
TYPICAL FOR MAIN SWITCHBOARD
GARDEN RESERVE



SIDE ELEV.



FRONT ELEVATION
DOOR REMOVED



FRONT SIDE OF CONCRETE
PLINTH

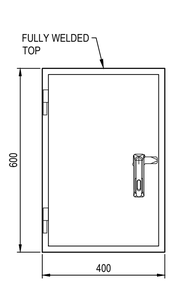
ALEXANDRINA COUNCIL
PLINTH

CONDUIT	TYPE	DESTINATION
1	1x 80mm	POWER TO PUMP CHAMBER
2	1x 63mm	POWER TO PUMP CHAMBER
3	1x 63mm	POWER TO VALVE PIT
4	1x 63mm	POWER FROM MAINS SUPPLY

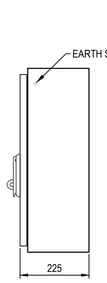
PLINTH NOTES

1. CONDUIT 1 TO BE TERMINATED INTO PUMP CHAMBER.
   CONDUIT 2 TO BE TERMINATED INTO PUMP CHAMBER.
   CONDUIT 3 TO BE TERMINATED INTO VALVE PIT.
   CONDUIT 4 TO BE TERMINATED OUTSIDE OF PLINTH PEF
2. ALL CONDUIT BENDS TO BE SWEEP BENDS.
3. CONCRETE PLINTH DEPTH TO BE NO LESS THAN 600mm

SECTION A-
SCALE 1:10



FRONT ELEVATION
AD BOXES (x2)



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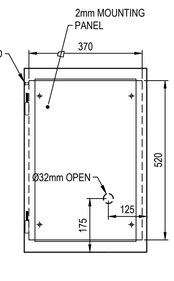
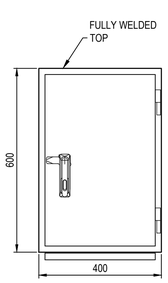
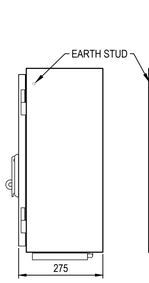


FRONT ELEVATION
DOOR REMOVED



FRONT ELEVATION
GENERATOR BOXES (x2)



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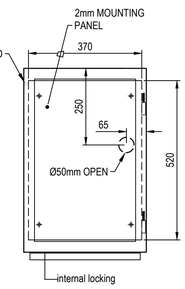


FRONT ELEVATION
DOOR REMOVED

TECHNICAL REQUIREMENTS - MAIN SWITCHBOARDS

101. PLACE OF INSTALLATION: OUTDOORS
102. TYPE OF INSTALLATION: STATIONARY
103. EXTERNAL DESIGN: ENCLOSED, FRONT CONNECTED, FLOOR MOUNTED
104. FORM OF SEPARATION: 1
105. ELECTRICAL CHARACTERISTICS: AS PER 'SINGLE LINE DIAGRAM'
   B. AUXILIARY CIRCUIT VOLTAGE: AC 230 V
   C. DIVERSITY FACTOR: AS PER AS3439. 1-2002,TABLE 1
106. DEGREE OF PROTECTION-
   x. IP56 TO AS/NZS 60529-2004 (AGAINST SOLID BODIES AND LIQUIDS)
   x. IK08 TO EN50-102 (AGAINST MECHANICAL)
107. PROTECTION AGAINST ELECTRIC SHOCK: AS PER AS3439. 1-2002, CL.7.4.2.2.3.a)
108. CUBICLE MATERIAL: 1.6 mm MARINE GRADE '316' STAINLESS STEEL
109. PAINT COLOURS: INTERNAL ESCUTCHEONS/PANELS - WHITE
   CUBICLE & DOORS - POWDERCOATS
   COLOUR - WILDERNESS
110. SERVICE CONDITION: NORMAL
   [AMBIENT AIR TEMPERATURE DOES NOT EXCEED +40° AND ITS AVERAGE OVER 24hrs. DOES NOT EXCEED +35°]
111. POLLUTION DECREE: 'AS SHOWN IN 'SINGLE LINE DIAGRAM'
117. ESTIMATED CUBICLE WEIGHT: 200kg PER BOARD

MATERIAL SCHEDULE

- CABLE DUCT, SLOTTED PVC TYPE, SIZED TO SUIT
- GLAND PLATES,'ALUMINIUM',THICKNESS TO SUIT, CAT. NO:,
- EARTH BARS-BRASS EXTRUSION, SELECTRIX INDUSTRIES CAT. NO:'B120'-SERIES,2 SCREWS PER TUNNEL,WAYS TO SUIT
- NEUTRAL BARS-BRASS EXTRUSION, SELECTRIX INDUSTRIES CAT. NO:'B120'-SERIES, 2 SCREWS PER TUNNEL, WAYS TO SUIT
- FASTENERS, M6, CHROME PLATED & CAPTIVE
- LOCKING HANDLE FLUSH/SWING TYPE WITH LONG SPINDLE, LOCK FOCUS, BASE: CAT. NO: I/HSS-/2A/SS; FINISH:STAINLESS STEEL
   x STAINLESS STEEL ADAPTOR PLATES & GASKET, CAT.NO. A/KIT-/HSS/PLATE
   x LOCK FOCUS, HANDLE INSERT-PADLOCKING,CAT.NO.: I/F 743-CP
- BLOCK HINGES-, CAT. NO:KIROO CAT.NO.A/D81(O/A LENGTH:82MM) BRASS, CHROME PLATED
- MOUNTING PANELS, MIN. 2mm,WELDED OR REMOVABLE
- PLINTH, CHANNEL SECTION,75MM HIGH (OUTDOOR STAINLESS STEEL), C/W MOUNTING HOLES
- ESCUTCHEONS, HINGED AND/OR REMOVABLE
- LEGEND CARD & LOGBOOK HOLDERS, 150h x 100w,

GENERAL STANDARD CONSTRUCTION NOTES:

NB:FOLLOWING NOTES ARE APPLICABLE,UNLESS STATED OTHERWISE.

1. FOLDED AND WELDED CONSTRUCTION,STIFFENED TO PREVENT DISTORTION,MATERIAL AND SEPARATION AS STATED. SEE 'TECHNICAL REQUIREMENTS'.
2. NEOPRENE SEALS TO SUIT 'DEGREE OF PROTECTION'. AS60529-2004.
3. DISTRIBUTION SECTIONS/BOARDS EQUIPED WITH 'LEGEND CARD' AND HOLDERS.
4. SPARE FUSES,IF REQUIRED,PROVIDED IN FUSE RACKS,MIN. THREE ONLY,OF EACH TYPE AND RATING.
5. DOORS OVER 900MM. HIGH TO BE FITTED WITH 3-POINT LOCKING PROVISION.
6. CIRCUIT AND PHASE IDENTIFICATION PROVIDED ON ESCUTCHEONS AS REQUIRED.
7. APERTURES FOR CABLE PASSAGE FITTED WITH GROMMET OR BUSHES,AND FOR BUSBARS FITTED WITH INSULATING DIAPHRAMS.
8. MAINBUSBARS CONSTRUCTED AND SUPPORTED TO 'TEST REPORT' AS STATED.
   a. JOINTS BOLTED,USING HIGH-TENSILE FASTENERS AND SPRING AND FLAT WASHERS.
   b. COLOUR CODED TO AS2067-1984 BY MEANS OF PAINT
   c. SIZED AS PER AS 60890-2009,UNLESS OTHERWISE STATED.
9. BLANKING-OFF PROVISIONS FOR ALL 'SPARE'WAYS.
   a. BAKELITE STRIPS IN RUNNERS FOR DISTRIBUTION SECTIONS.
   b. METAL COVERS TO MATCH EQUIPMENT.
10. LABEL POSITIONS IF SHOWN ARE APPROXIMATE ONLY. MAINTAIN 'STRAIGHT' LINE IN CASE OF MULTIPLES. FIXED BY MEANS OF METAL THREADS.
11. BARE TERMINALS IN DISTRIBUTION BOARDS ARE TO BE TAPED OR SHROUDED. OUTGOING SUB-MAIN TERMINALS ARE TO BE INDIVIDUALLY SHROUDED AGAINST ACCIDENTAL CONTACT.
12. HINGED EQUIPMENT PANELS FITTED WITH FLEXIBLE EARTHING CABLE AND ANCHORING BRACKET, TO SUIT.
13. INTERNAL AND OUTGOING SUBMAINS ANCHORED ON CABLE TRAYS TO SUIT RATINGS SHOWN.
14. INTERNAL AND FINAL SUB-CIRCUIT WIRING TO BE CONCEALED IN SLOTTED PVC-DUCTING.
15. FUSE RAILS AND MOUNTING PANELS TO BE REMOVABLE FOR EASE OF PAINTING.
16. SEE 'TECHNICAL REQUIREMENTS' FOR SPECIFIC PROJECT AND SWITCHBOARD DETAILS.
17. ALL SWITCHBOARDS TO COMPLY WITH: AS/NZS 3439.1-2002, AS/NZS 60529-2004, EN 50-102, AS 60890-2009 (BUSBARRATINGS), AS/NZS 3000-2007 PROJECT SPECIFICATION.
18. EQUIPMENT DETAILS, LAY-OUT AND POSITION MAY VARY SLIGHTLY DURING MANUFACTURE.
19. INTERNAL CABLING: POWER CIRCUITS-CABLING SHALL BE SIZED ACCORDING TO AS3008.1.1-2009, TABLE 8, COLUMNS 9, UNENCLOSED, TOUCHING.
20. PROPOSED CABLE-ROUTES SHOWN IN 'ELEVATIONS' BY MEANS OF. (CENTRE LINE)
21. CONNECT ALL CONTROL ACTIVES TO THE 'RED PHASE', UNLESS SHOWN OTHERWISE.
22. PHASE ARRANGEMENTS OF BUSBARS AND CONNECTIONS.
   THE ORDER OF THE BUSBARS AND CONNECTIONS SHALL BE PHASE 1, PHASE 2, PHASE 3, TOP-TO-BOTTOM * LEFT-TO-RIGHT * BACK TO FRONT *
   * ALL RELATIVE TO THE FRONT OF THE SWITCHGEAR.
23. WHERE THE SYSTEM HAS A NEUTRAL CONNECTION, THE NEUTRAL CONNECTION SHALL OCCUPY AN OUTER POSITION.

CABINET AND PLINTH DETAIL SUBJECT
TO CHANGE BASE ON PUMP KW SIZING

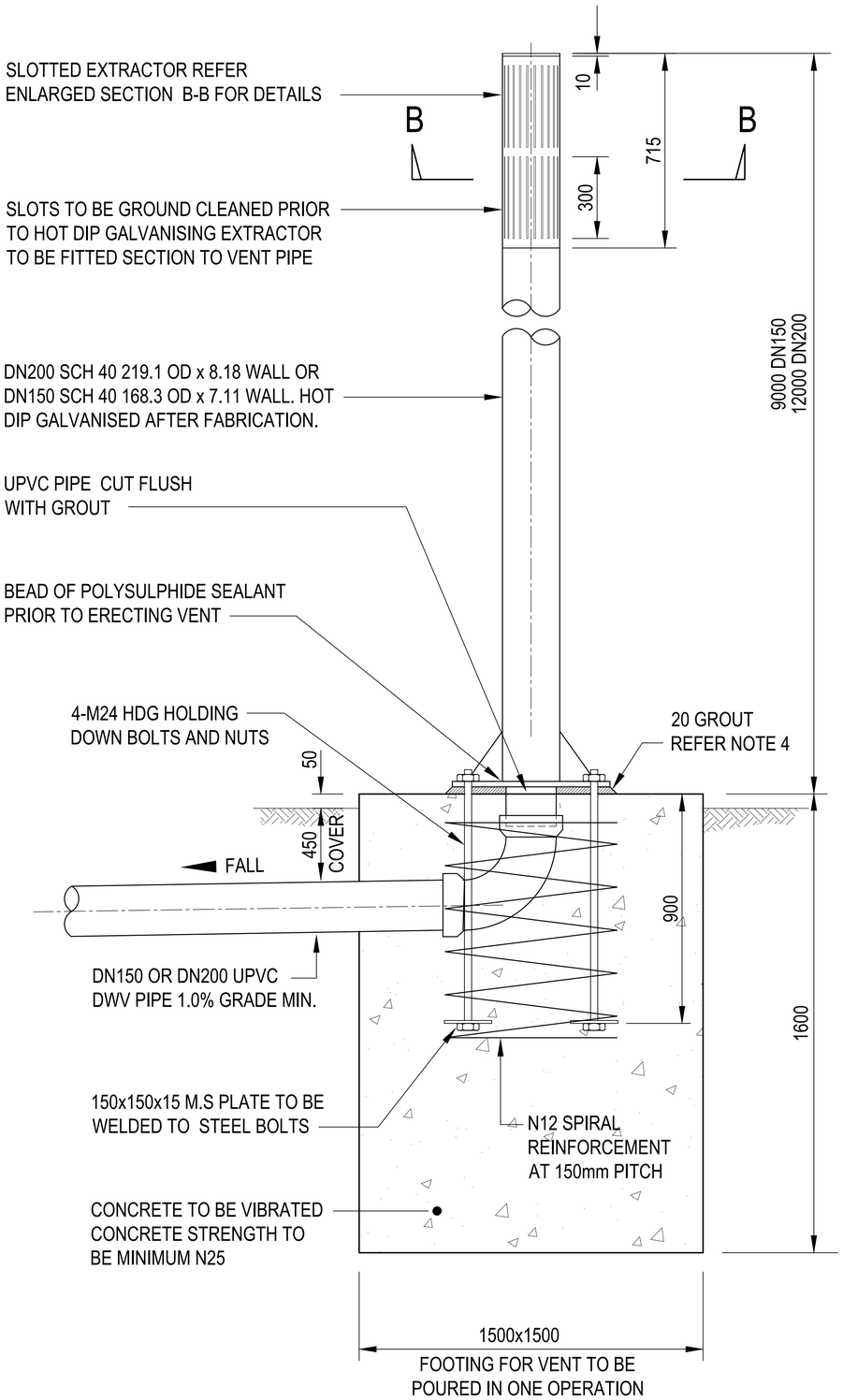
Filename: V:\2021\212500 - 212599\212524 - AC - Technical Drawing Suite\Drafting\AC-CWMS-SD-09.dwg

APP'D S.RATCLIFF DATE -
TEAM LEADER WATER INFRASTRUCTURE

ALEXANDRINA COUNCIL
Ph:(08) 8555 7000
11 Cadell Street
PO Box 21
GOOLWA SA 5214
ABN: 20 785 405 351

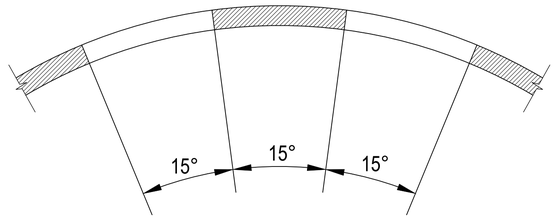
Alexandrina Wastewater

PROJECT: CWMS TYPICAL DRAWINGS
PLAN #: AC-CWMS-SD
TITLE: PUMP STATION SWITCHBOARD
SHEET: 09
REV: A

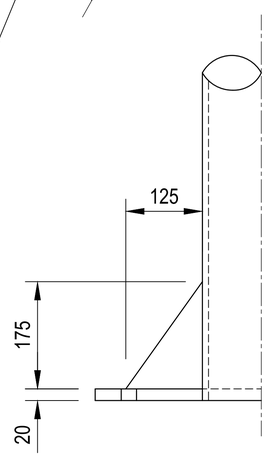


TYPICAL VENT AND BASE DETAIL

1:20

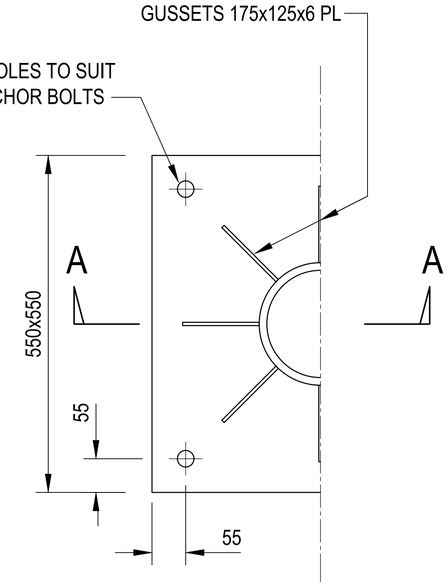


SECTION B-B



SECTION A-A

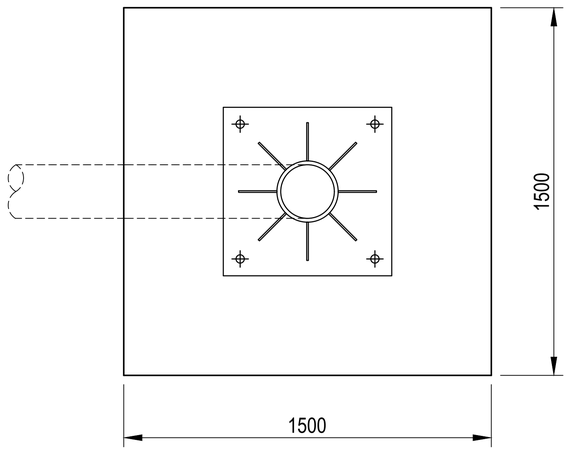
N.T.S.



PART PLAN

N.T.S.

NOTE: ALL WELDS TO BE CONTINUOUS
EFFECTIVE LEG LENGTH TO BE 5mm



PLAN

1:20

NOTES:

1. THE DEVIATION OF ANY POINT ON THE PIPE FROM IT'S CORRECT POSITION SHALL NOT EXCEED 25mm FROM BASE.
2. BASE MATERIAL TO BE 150 kPa MIN. BEARING PRESSURE.
3. COMPACTION AROUND CONCRETE FOOTING SHALL BE MIN. 95% SMDD.
4. BEDDING UNDER BASE PLATE SHALL BE CARRIED OUT WITH NON SHRINK CEMENT MORTAR. MORTAR SHOULD BE OF ADEQUATE STRENGTH AND SHALL COMPLETELY FILL THE SPACE TO BE GROUTED AND SHALL EITHER BE PLACED UNDER PRESSURE OR PLACED BY RAMMING AGAINST FIXED SUPPORTS.
5. GROUND MOUNTED VENT WITH ODOUR CONTROL CARTRIDGE, WITH OR WITHOUT FAN, IN LIEU OF VENT STACK CAN BE CONSIDERED IN SOME CONDITIONS.

Filename: V:\2021\27500 - 27599\27524 - AC - Technical Drawing Suite\Drafting\AC-CWMS-SD-10.dwg

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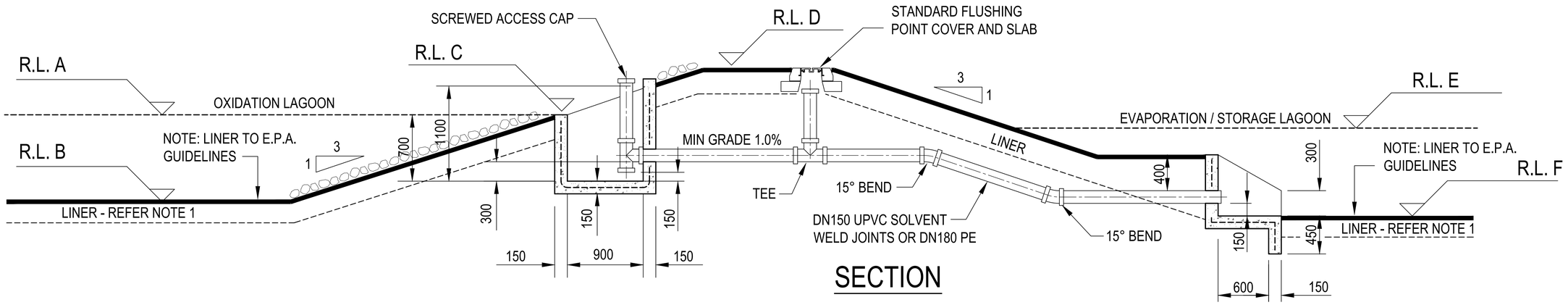
Alexandrina Wastewater

PROJECT: CWMS TYPICAL DRAWINGS
PLAN #: AC-CWMS-SD
TITLE: VENT AND BASE DETAIL
SHEET: 10
REV: A

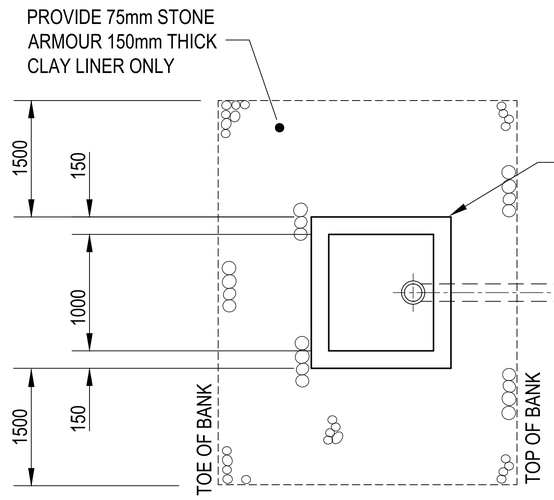


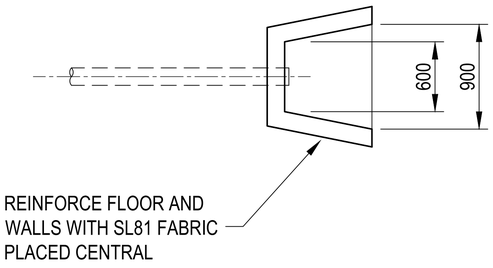
SECTION

NOTE: MINIMUM PIPE SIZE SHOWN. PIPE SIZE TO BE CONFIRMED BY DESIGNER.
FOR HDPE LINER PROVIDE SUITABLE SEAL AROUND CONCRETE STRUCTURES AND PENETRATIONS.

NOTES

1. REFER TO EPA 509/14 WASTEWATER LAGOON CONSTRUCTION GUIDELINE TO ASSIST IN SELECTION OF LAGOON LINER. USE THE EPA RISK ASSESSMENT MATRIX IN CONJUNCTION WITH THE TABLE OF SUGGESTED CONSTRUCTION AND LINING CATEGORIES TO DETERMINE LAGOON LINING AND CONSTRUCTION DETAILS.
2. REFER SCHEDULE OF LEVELS FOR SPECIFIED LEVEL DATA.
3. CONCRETE TO BE N32 SULPHATE RESISTANT.
4. DESIGNER TO PROVIDE LEVELS A, B, C, D, E & F.

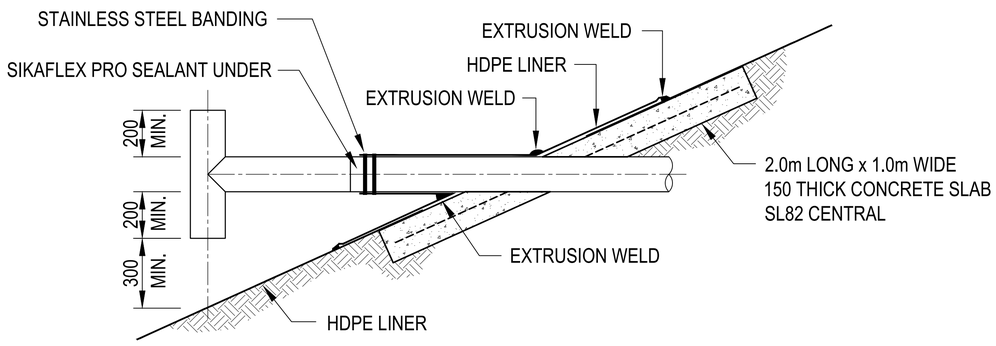




PLAN

TYPICAL LAGOON TRANSFER PIPE

N.T.S.



OUTLET PENETRATION DETAIL FOR HDPE LINED LAGOON

1:25

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APP'D S.RATCLIFF DATE -
TEAM LEADER WATER INFRASTRUCTURE

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11 Cadell Street
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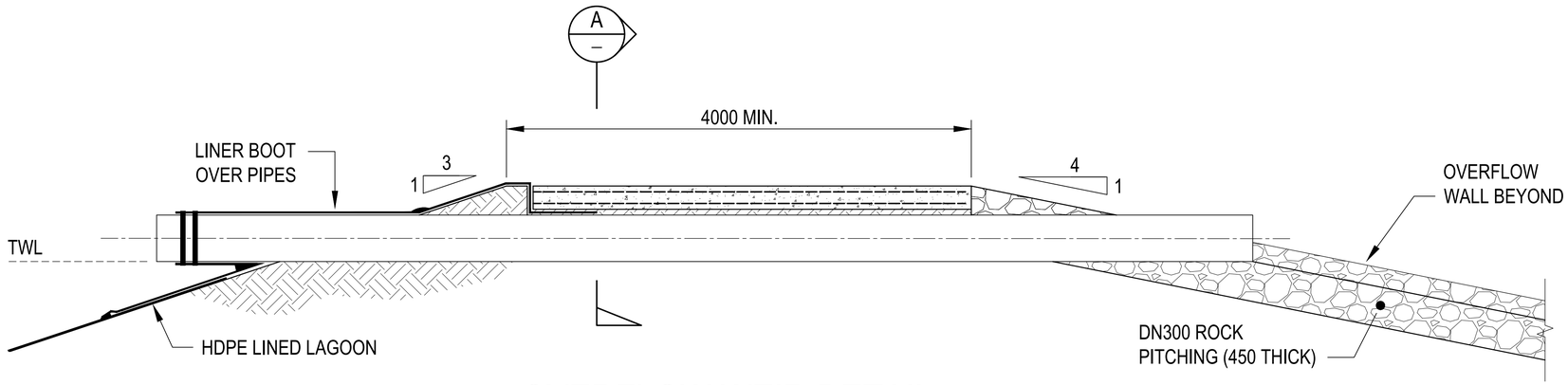
GOOLWA SA 5214
ABN: 20 785 495 351

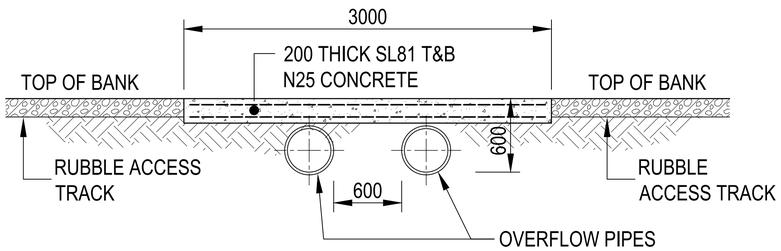
Alexandrina Wastewater

PROJECT: CWMS TYPICAL DRAWINGS
PLAN #: AC-CWMS-SD
TITLE: LAGOON TRANSFER PIPE DETAIL
SHEET: 11
REV: A



OVERFLOW WEIR DETAIL

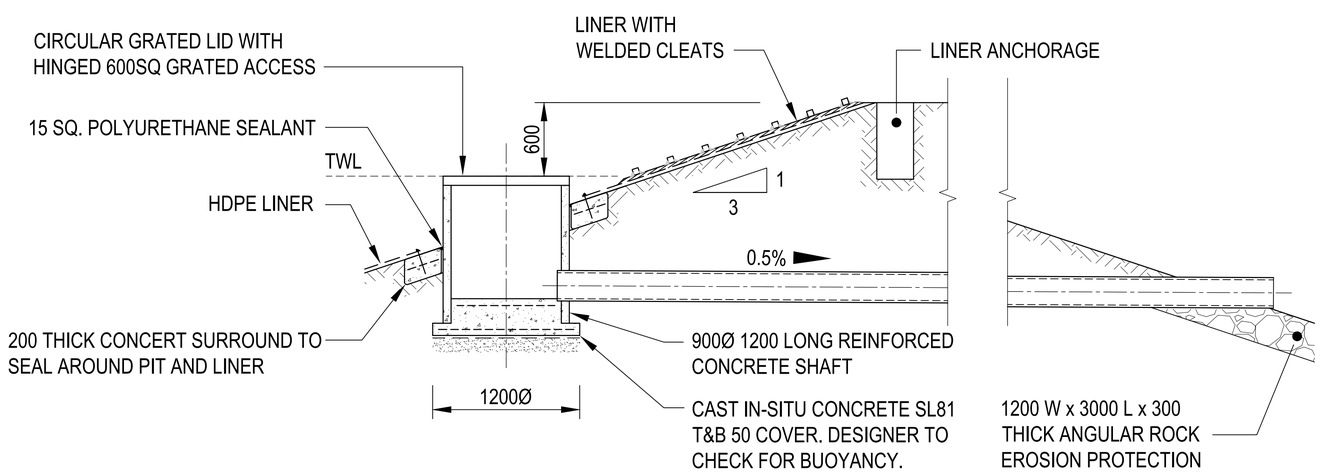
1:50



SECTION A-A

1:50

NOTE: OVERFLOW PIPE SIZE TO
BE DETERMINED BY DESIGNER



ALTERNATE OVERFLOW DETAIL

1:50

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INFRASTRUCTURE

ALEXANDRINA
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Ph:(08) 8555 7000
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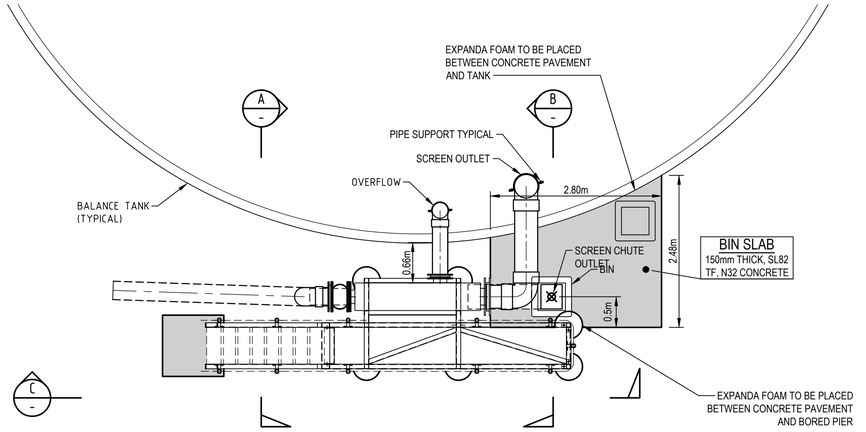
GOOLWA SA 5214
ABN: 20 785 405 351

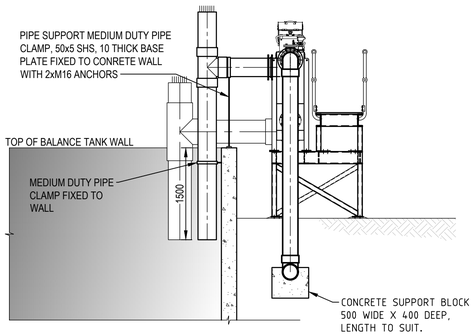
Alexandrina Wastewater

PROJECT: CWMS TYPICAL DRAWINGS
PLAN #: AC-CWMS-SD
TITLE: STORAGE LAGOON OVERFLOW DETAIL
SHEET: 12
REV: A



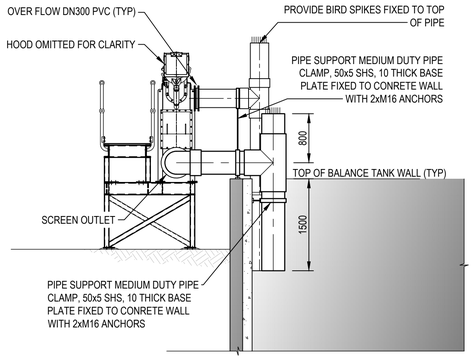
SEWAGE SCREEN DETAIL PLAN

SCALE 1:50



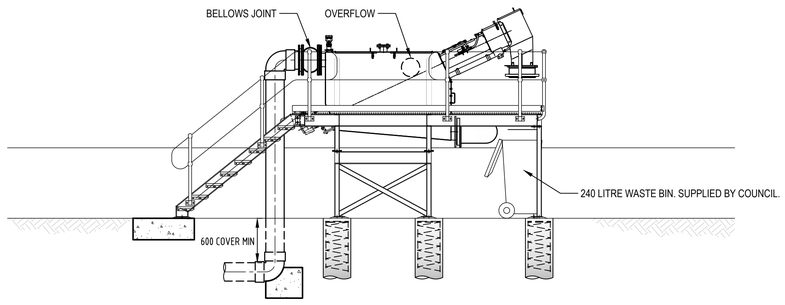
SECTION A

SCALE 150



SECTION B

SCALE 150



SECTION C

SCALE 150

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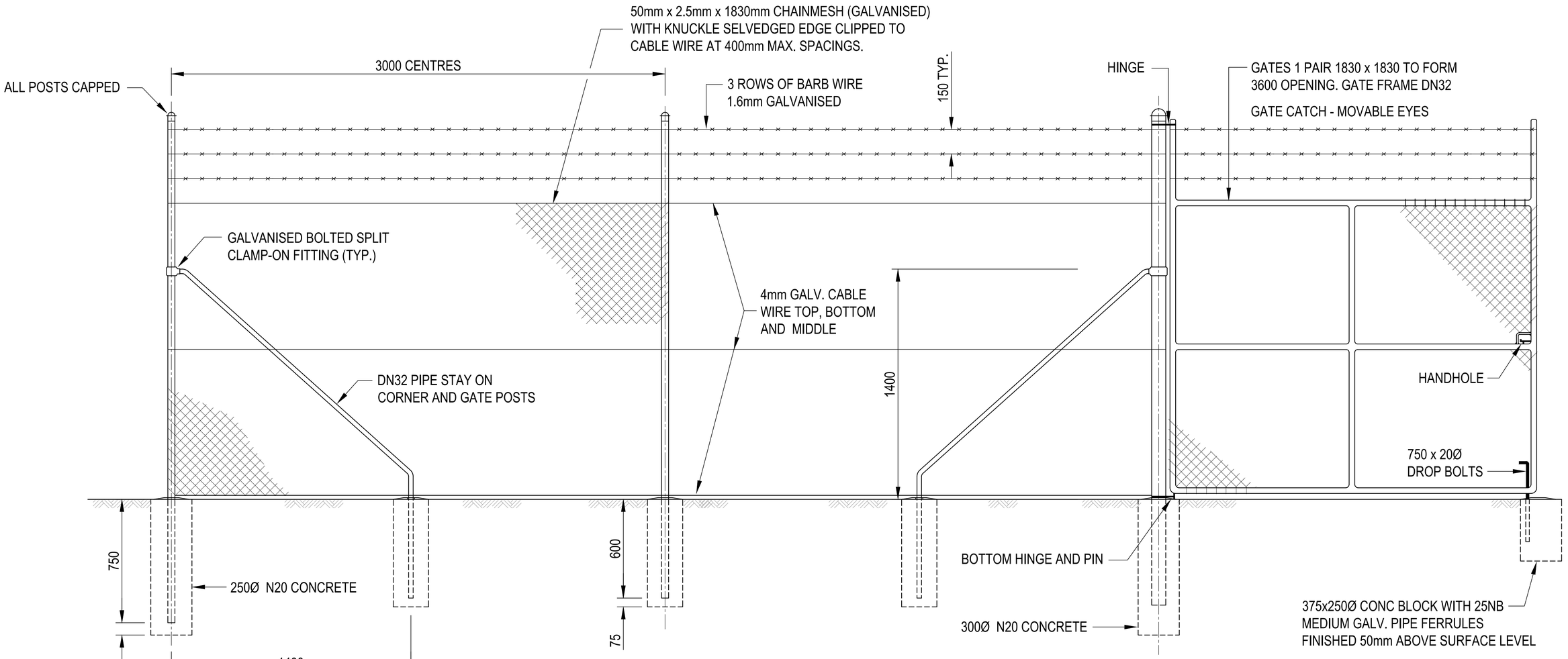
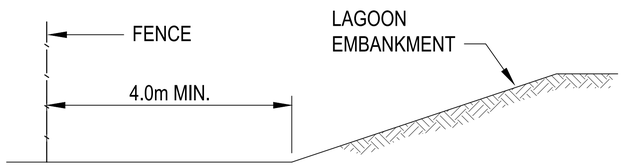
APP'D S.RATCLIFF	DATE -	ALEXANDRINA COUNCIL	PROJECT CWMS TYPICAL DRAWINGS	PLAN # AC-CWMS-SD	
TEAM LEADER WATER INFRASTRUCTURE		Ph:(08) 8555 7000 11 Cadell Street PO Box 21 GOOLWA SA 5214 ABN: 20 785 465 351	TITLE WWTP SCREEN DETAIL	SHEET 13	REV A



TYPICAL FENCE

1:25



MINIMUM CLEAR DISTANCE TO LAGOON TOE OF EMBANKMENT

NOTES

1. CHAIN MESH FENCES AND GATES SHALL COMPLY WITH AS 1725.
2. MEDIUM GRADE PIPE SHALL COMPLY WITH AS/NZS 1163 GRADE C250, CLASS1.
3. GALVANISED COATING ON STEEL TUBES SHALL COMPLY WITH AS/NZS 4792 WITH A COATING CLASS OF HDG 300.
4. ALL CLAMPS AND FASTENERS SHALL BE HOT DIP GALVANISED TO AS/NZS 4680.
5. THERE SHALL BE NO MORE THAN A 50mm GAP BETWEEN CHAIN MESH AND GROUND TO MINIMISE ANIMAL INTRUSION.

TABLE OF POSTS		
POST TYPE	NOMINAL SIZE	OUTSIDE DIAMETER mm
CORNER POST	DN50	60.3
INTERMEDIATE POST	DN40	48.3
GATE POST	DN80	88.9
PIPE STAY	DN32	42.4

Filename: V:\2021\212500 - 212599\212524 - AC - Technical Drawing Suite\Drafting\AC-CWMS-SD-14.dwg

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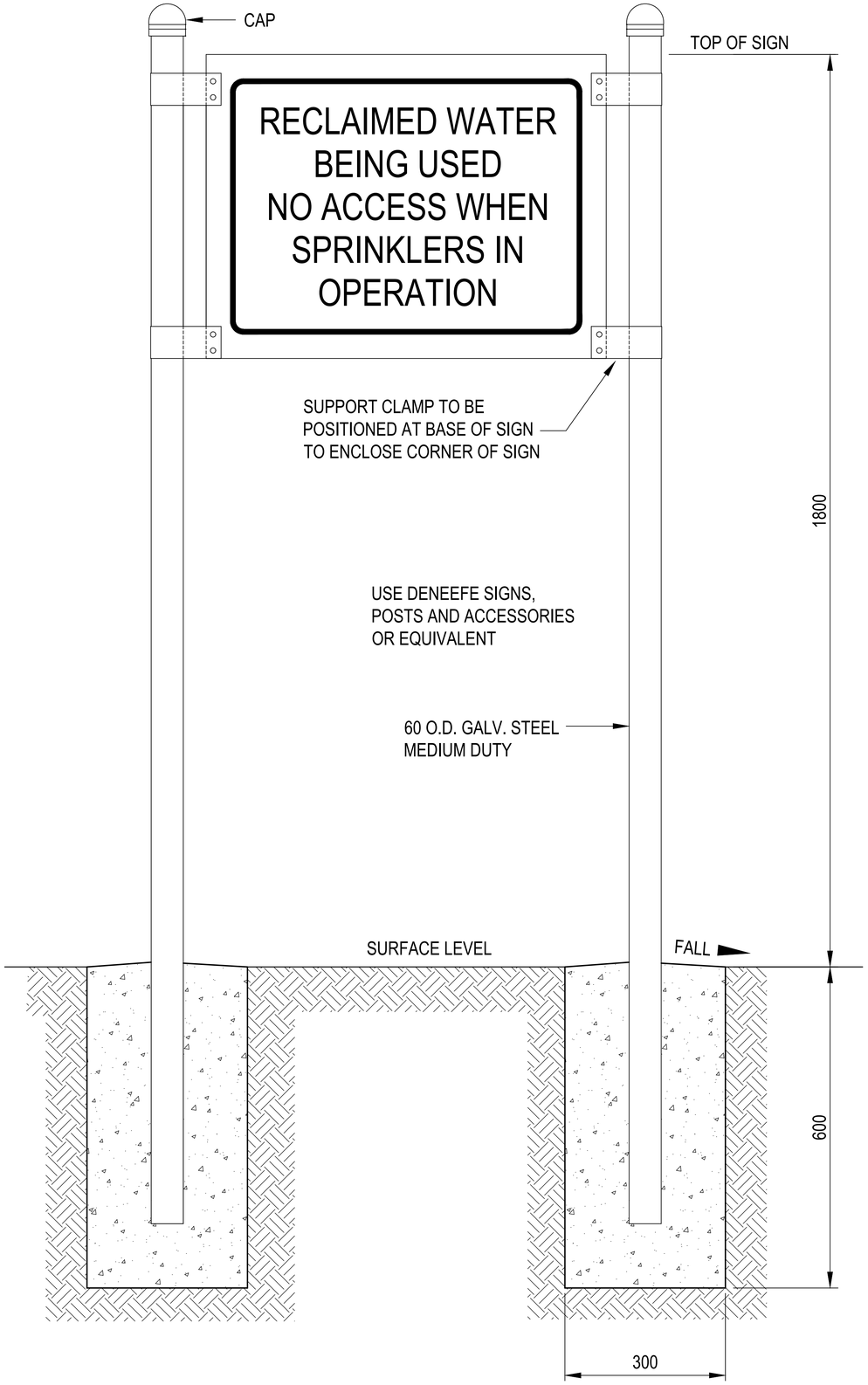
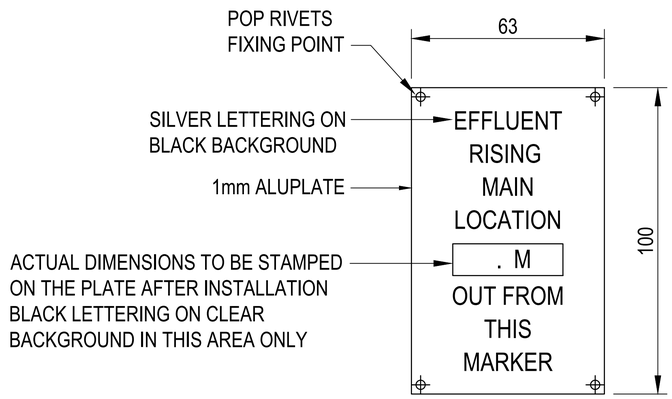
TEAM LEADER WATER INFRASTRUCTURE

ALEXANDRINA COUNCIL
Ph:(08) 8555 7000
11 Cadell Street
PO Box 21
GOOLWA SA 5214
ABN: 20 785 405 351

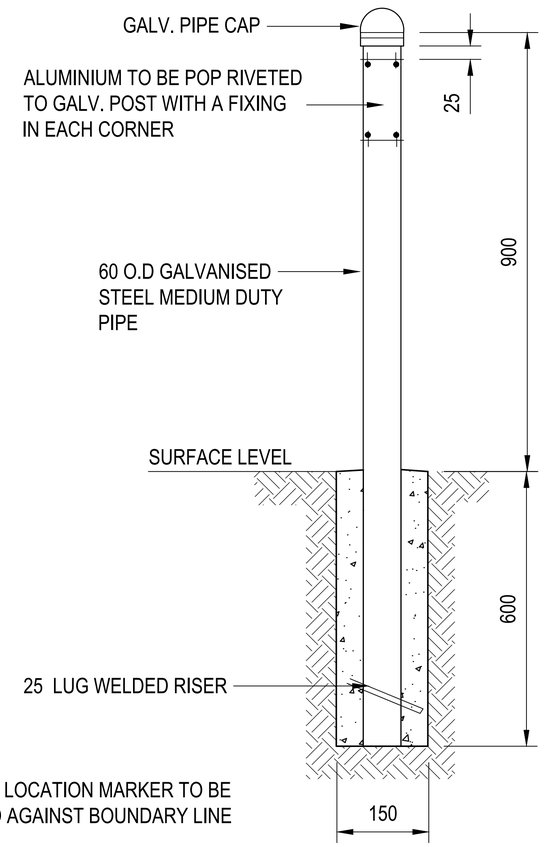
Alexandrina Wastewater

PROJECT: CWMS TYPICAL DRAWINGS
PLAN #: AC-CWMS-SD
TITLE: LAGOON FENCE
SHEET: 14
REV: A





DETAIL OF PHOTO ANODISED ALUMINIUM LOCATION PLATE



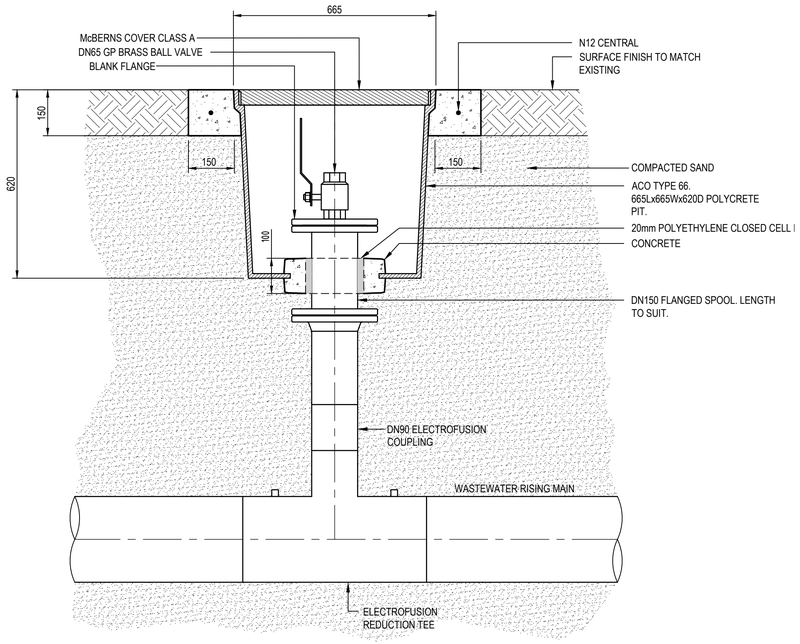
TYPICAL RISING MAIN LOCATION MARKER

NOTE

1. GALVANISED COATING ON STEEL TUBES SHALL COMPLY WITH AS/NZS 4792, COATING CLASS HDG 300.
2. REFERENCE TO BE MADE TO GUIDELINES FOR NON-DRINKING WATER IN SOUTH AUSTRALIA AND RECLAIMED WATER GUIDELINES.

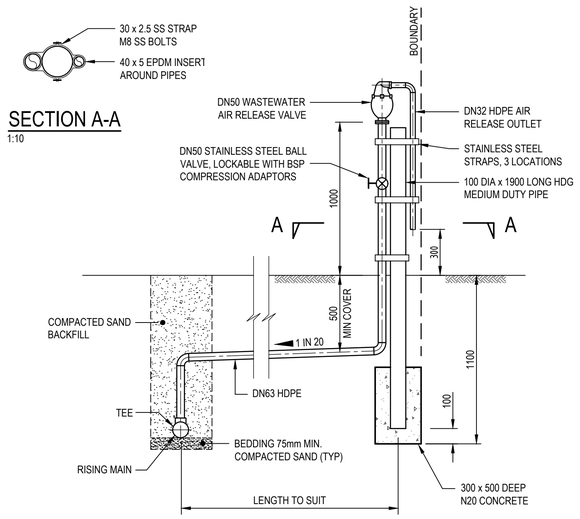
Filename V:\2021\212500 - 212599\212524 - AC_ Technical Drawing Suite\Drafting\AC-CWMS-SD-15.dwg

APP'D S.RATCLIFF	DATE -	ALEXANDRINA COUNCIL	PROJECT CWMS TYPICAL DRAWINGS
TEAM LEADER WATER INFRASTRUCTURE		Ph:(08) 8555 7000 11 Cadell Street PO Box 21 GOOLWA SA 5214 ABN: 20 785 405 351	PLAN # AC-CWMS-SD
		Alexandrina Wastewater	TITLE MARKER POST AND WARNING SIGN DETAIL
			SHEET 15 / REV A



INSPECTION POINT / SCOUR VALVE- DETAIL

SCALE 1:10

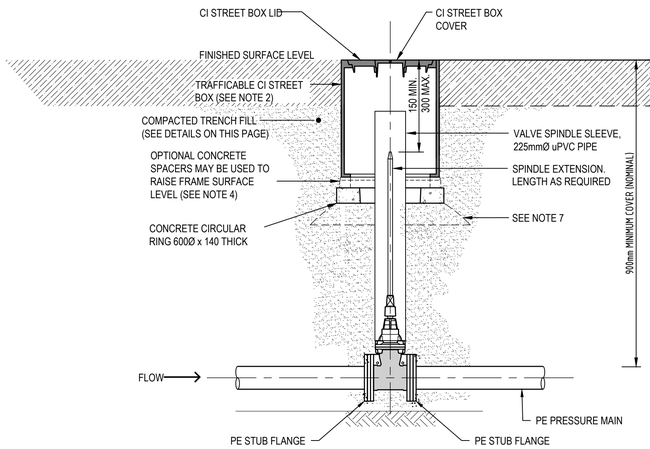


SECTION A-A

1:10

TYPICAL AIR VALVE DETAILS

1:20

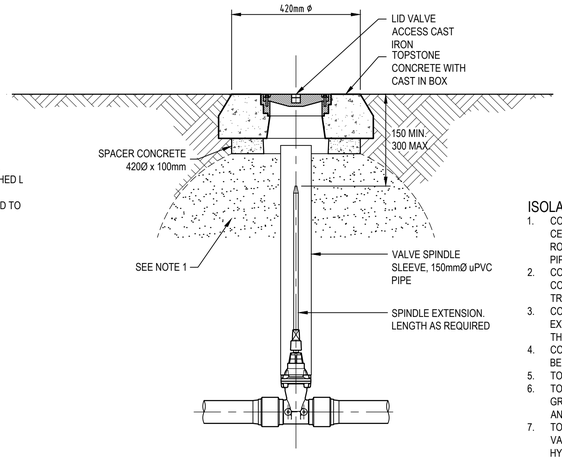


ISOLATION VALVE DETAIL

SCALE N.T.S.

NOTES:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. TRAFFICABLE CI (CAST IRON) STREET BOX COVERS AND FRAMES TO BE IN ACCORDANCE WITH AS 3996, CLASS D LOADING.
3. COVER AND FRAME, CONCRETE RING AND SPACERS TO BE INSTALLED SO THAT NO LOADING IS TRANSMITTED TO THE VALVE OR PIPE.
4. CONCRETE SPACERS - PLACE THICKEST IN BOTTOM POSITION. EXTRA SPACERS (THICK OR THIN) ARE THEN ADDED TO GIVE THE FINISHED L
5. CONCRETE OR FIBRE BOARD PACKING SEGMENTS SHALL NOT BE USED FOR HEIGHT ADJUSTMENTS.
6. CONCRETE VALVE CHAMBER SPINDLE SLEEVE AND BOTTOM CONCRETE SPACER BEDDED SO THAT NO ROAD LOADING IS TRANSMITTED TO OR PIPE.
7. COMPACTED QUARRY RUBBLE TO BE >100mm BELOW VALVE GLAND AND >100 ABOVE PIPE.



ISOLATION VALVE DETAIL (TYPE 2)

SCALE N.T.S.

VALVE SPINDLE AND SLEEVE SHALL NOT PROTRUDE INTO TOP STONE CHAMBER

ISOLATING STOP VALVE NOTES:

1. COMPACTED QUARRY RUBBLE FOR LIGHT TRAFFIC AREAS AND CEMENT TREATED CRUSHED ROCK FOR HEAVY TRAFFIC ROADS. TO BE >100mm BELOW VALVE GLAND AND >100 ABOVE PIPE.
2. CONCRETE VALVE CHAMBER. SPINDLE SLEEVE. AND BOTTOM CONCRETE SPACER BEDDED SO THAT NO ROAD LOADING IS TRANSMITTED TO VALVE OR PIPE.
3. CONCRETE SPACERS - PLACE THICKEST IN BOTTOM POSITION. EXTRA SPACERS (THICK OR THIN) ARE THEN ADDED TO GIVE THE FINISHED LEVEL.
4. CONCRETE OR FIBRE BOARD PACKING SEGMENTS SHALL NOT BE USED FOR HEIGHT ADJUSTMENTS.
5. TOPSTONES ARE NOT DESIGNED FOR JACKING.
6. TOPSTONES TO BE SET TO FINISHED LEVEL OR SLOPE OF GROUND IN EASEMENTS OR SURFACE OF UNSEALED ROADS AND TRACKS.
7. TOPSTONES TO BE POSITIONED SO THAT THE STANDARD VALVE KEY CAN BE USED AND ALSO FOR BELOW GROUND FIRE HYDRANTS A HYDRANT AND KEY CAN BE CONNECTED THROUGH THE OPENING WITHOUT FOULING.
8. ALL LID COVERS TO BE PAINTED YELLOW AND LABELLED TO DENOTE STOP VALVE CHAMBERS.

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APP'D S.RATCLIFF DATE -
TEAM LEADER WATER INFRASTRUCTURE

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Alexandrina Wastewater

PROJECT: CWMS TYPICAL DRAWINGS
PLAN #: AC-CWMS-SD
TITLE: VALVE DETAILS
SHEET: 16
REV: A

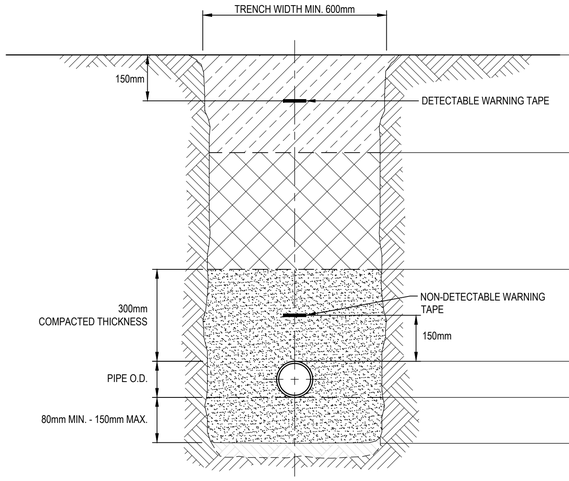


TABLE 1

ZONE		MATERIAL
TRENCH REINSTATMENT REFER TO LONGITUDINAL SECTION FOR LOCATION AND TYPE		TYPE 1 - 200mm PM 1/20 COMPACTED TO 98% OF MMDD TYPE 2 - 30mm AC ON 150mm PM 1/20 ON 150mm PM 2/20 SUB BASE COMPACTED TO 98% OF MMDD. REFER NOTE AND DETAIL TYPE 3 - 150mm GOOD QUALITY TOPSOIL
TRENCH FILL		TYPE 1 & 2 TS 4 SAND COMPACTED TO NOT LESS THAN 100% OF SMDD (NOTE 5 & 7). PLACE ALL MATERIALS IN LAYERS PARALLEL TO THE SURFACE WITH A LOOSE THICKNESS NOT GREATER THAN 200mm. EACH LAYER TO BE COMPACTED SEPARATELY. TYPE 3 INORGANIC FILL WITH A MAXIMUM STONE SIZE OF 75MM, COMPACTED TO NOT LESS THAN 95% OF SMDD (NOTE 5).
EMBEDMENT	OVERLAY	VERGES/EASEMENTS - PLACE ALL OF SIDE SUPPORT AND OVERLAY SAND IN ONE LAYER. COMPACT USING A VIBRATING PLATE OVER THE FULL WIDTH OF THE TRENCH TO GIVE NOT LESS THAN 98% OF SMDD AS TESTED IN THE TOP 150mm. (SEE NOTES 5 & 7)
	SIDE SUPPORT	
	BEDDING	REFER NOTE 7
OVER-EXCAVATION IN SOIL OR ROCK		

EXCAVATION, EMBEDMENT, PIPE COVER AND TRENCH FILL DETAILS

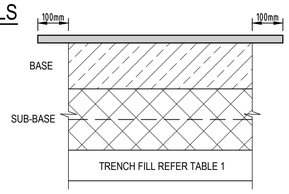
SCALE N.T.S.

NOTES:

1. ALL PIPE RISERS SHALL BE SURROUNDED BY A MINIMUM 300mm OF COMPACTED EMBEDMENT MATERIAL EXTENDING UP TO CONCRETE SPACER RING.
2. PM1/20 = 20mm CLASS 1 QUARRIED PAVEMENT MATERIAL (PM1/20QG)
3. PM2/20 = 20mm CLASS 2 PAVEMENT MATERIAL.
4. SMDD = STANDARD MAXIMUM DRY DENSITY (AS 1289.5.1.1).
5. MMDD = MODIFIED MAXIMUM DRY DENSITY (AS 1289.5.2.1).
6. IF THE TS 4 SAND DOES NOT DISPLAY A DEFINED MOISTURE-DENSITY CURVE (SEE NOTE 1. OF AS 1289.5.5.1) THEN THE DENSITY INDEX (ID) METHOD (AS 1289.5.6.1) SHALL BE USED FOR COMPACTION CONTROL - AN ID OF 90% SHALL BE TAKEN AS EQUIVALENT TO 100% OF SMDD.
7. AC - ASPHALIC CONCRETE SURFACE TO MATCH THE EXISTING. THE AC SHALL EXTEND 100mm EITHER SIDE OF THE EXCAVATED TRENCH AND THE OUTER EDGE SHALL BE SAW CUT.
8. DIT ROAD REINSTATEMENT SHALL BE TO DTEI STANDARD SPECIFICATION PART 208. MINIMUM PIPE COVER FOR DTEI ROAD SHALL BE 1000mm UNLESS SHOWN OTHERWISE ON DRAWINGS

TRENCH FLOOR PREPARATION

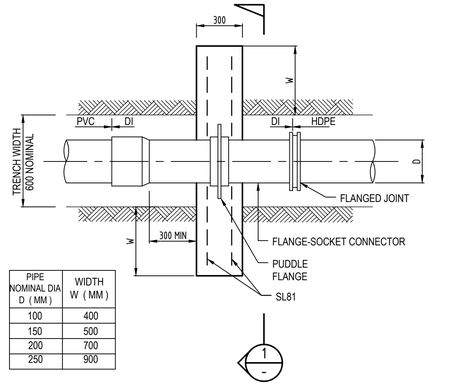
- ENSURE THAT THE TRENCH FLOOR IS SMOOTH AND FIRM, AND WITHIN THE DESIGN TRENCH FLOOR LEVEL LIMITS OF 80mm MINIMUM TO 150mm MAXIMUM BELOW THE BOTTOM OF THE PIPE, BEFORE PLACING ANY BEDDING.
- IF THE TRENCH FLOOR IS IN FIRM NATURAL SOIL AND AN EXCAVATOR IS BEING USED, IT WILL NORMALLY BE SUFFICIENT TO TRIM IT SMOOTH WITH THE EXCAVATOR BUCKET.
- IF THE TRENCH FLOOR IS IN ROCK, BACKFILL BETWEEN PEAKS OVER 30mm HIGH WITH SAND COMPACTED TO 100% OF SMDD BEFORE PLACING ANY BEDDING
- IF THE TRENCH FLOOR HAS BEEN OVER EXCAVATED BELOW DESIGN TRENCH FLOOR LEVEL, BACKFILL WITH SAND COMPACTED TO 100% OF SMDD TO BRING IT BACK UP TO DESIGN TRENCH FLOOR LEVEL BEFORE PLACING ANY BEDDING.
- REMOVE LOOSE SOIL OR ROCK RUBBLE FROM THE FLOOR OF THE TRENCH.
- IF THE TRENCH FLOOR WHOLLY OR PARTIALLY CONSISTS OF: VERY SOFT CLAY, LOOSE SAND, OLD OR NON-ENGINEERED FILL, OR REFUSE, OR HAS ISOLATED OUTCROPS OF ROCK IN IT, OR HAS BEEN DISTURBED BY GROUNDWATER INFLOW, CONSULT THE SUPERINTENDENT OR REFER TO TECHNICAL SPECIFICATIONS.



	THICKNESS	TYPE	COMPACTION
	30mm	AC10	
BASE	150mm	PM1/20QG	98% MMDD (NOTE 5)
SUB-BASE	150mm	PM2/20 (NOTE 3)	98% MMDD (NOTE 5)

TYPE 2 REINSTATMENT

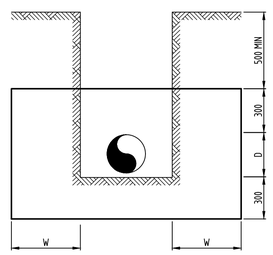
LIGHT TRAFFIC



PIPE NOMINAL DIA D (MM)	WIDTH W (MM)
100	400
150	500
200	700
250	900

PVC/PE TRANSITION THRUST BLOCK DETAIL

SCALE: NTS



SECTION 1

SCALE :NTS

APP'D S.RATCLIFF DATE -

TEAM LEADER WATER INFRASTRUCTURE

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Alexandrina Wastewater

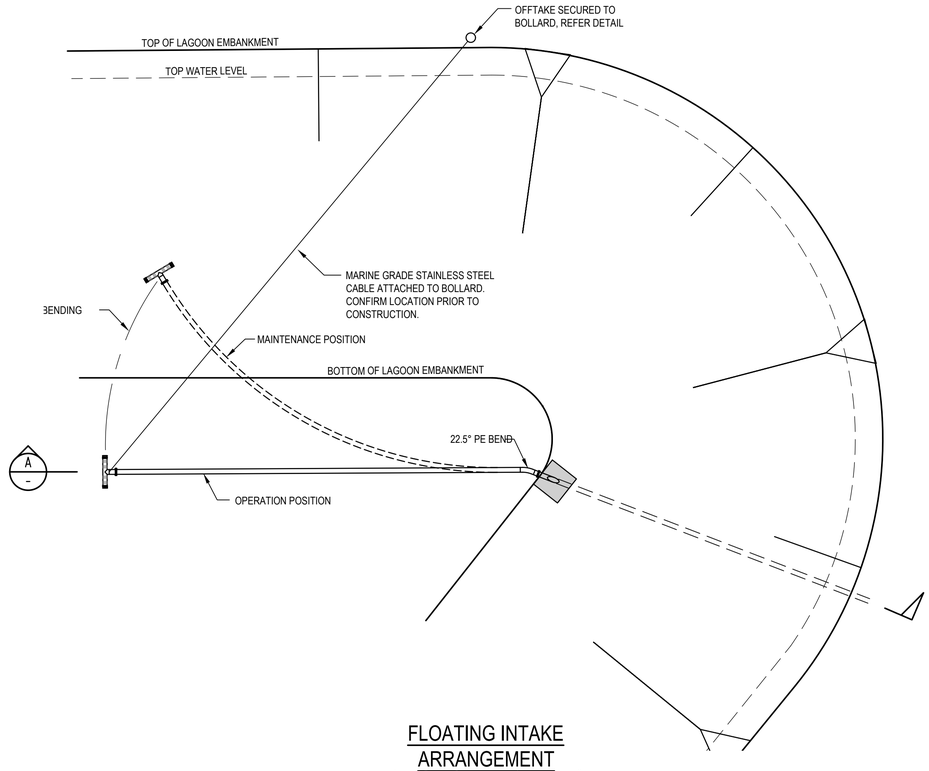
PROJECT: CWMS TYPICAL DRAWING

PLAN #: AC-CWMS-SD-

TITLE: EXCAVATION, EMBEDMENT, PIPE COVER AND TRENCH FILL DETAILS

SHEET: 17

REV: A



FLOATING INTAKE ARRANGEMENT

4 2 0 4 8

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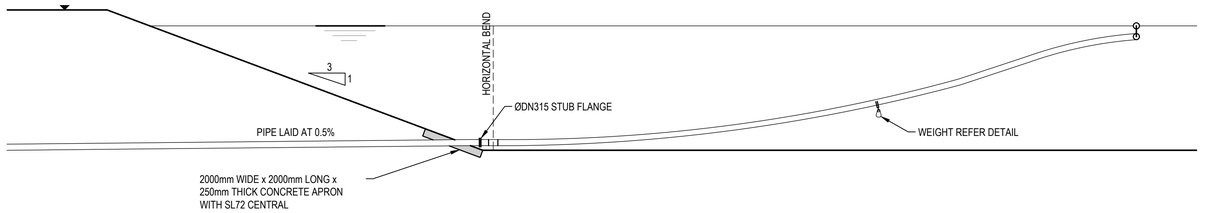
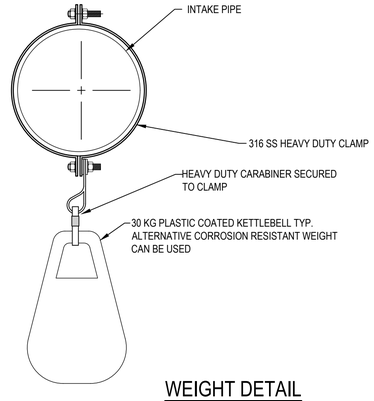


SECTION A

SCALE 1 : 100



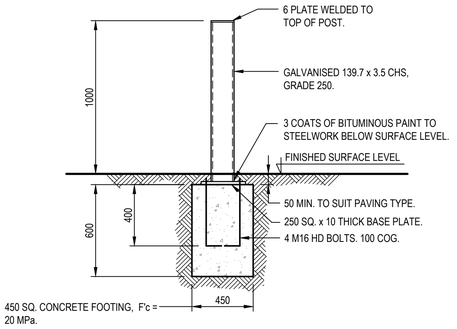
WEIGHT DETAIL

SCALE 1 : 5

NOTE: WEIGHT USED AND LONGITUDINAL FIXED LOCATION TO BE DETERMINED BY CONTRACTOR TO ENSURE FULL SUBMERGENCE OF INTAKE AND CONTINUOUS INTAKE GRADE.

0.1 0.05 0 0.1 0.2

SCALE 1:5

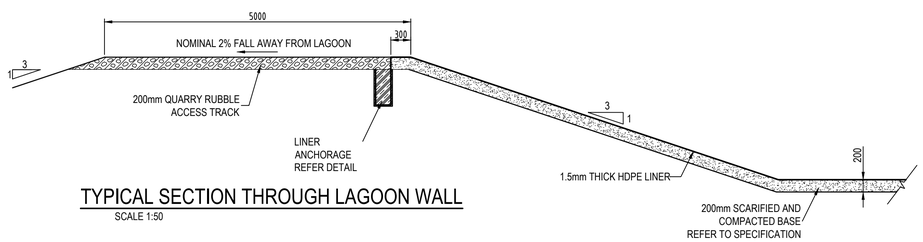


FIXED BOLLARD DETAIL

SCALE 1:20

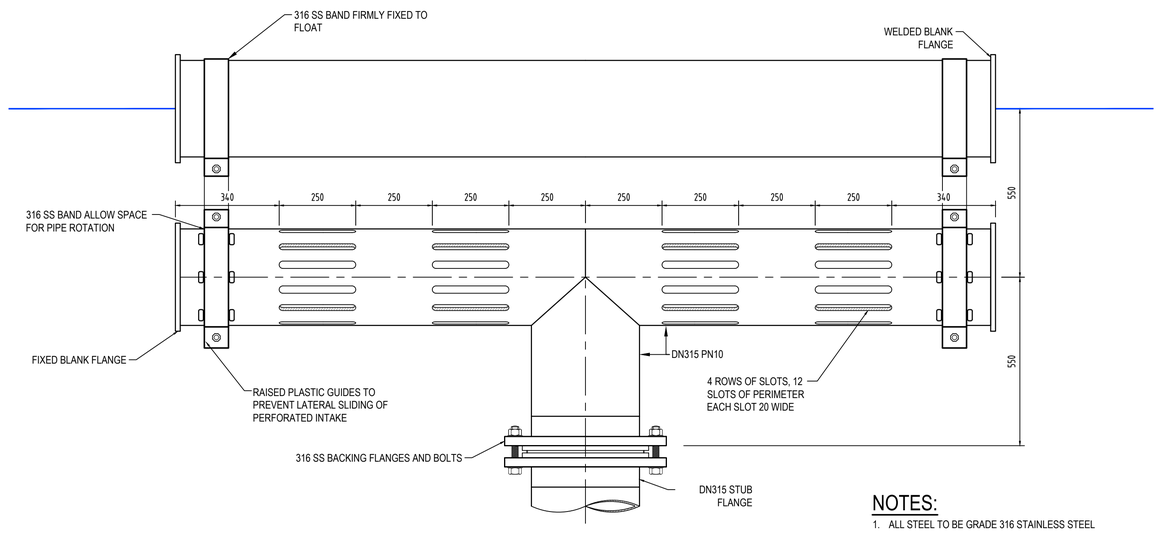
0.4 0.2 0 0.4 0.8

SCALE 1:20



TYPICAL SECTION THROUGH LAGOON WALL

SCALE 1:50



INTAKE DETAIL

SCALE 1 : 10

NOTES:

1. ALL STEEL TO BE GRADE 316 STAINLESS STEEL
2. POSITION OF WEIGHT SHALL BE ADJUSTED ON SITE TO ENSURE CONTINUOUS INTAKE GRADE OF PIPE AND FULL SUBMERGENCE OF INTAKE ARRANGEMENT.

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APP'D S.RATCLIFF DATE -

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Alexandrina Wastewater

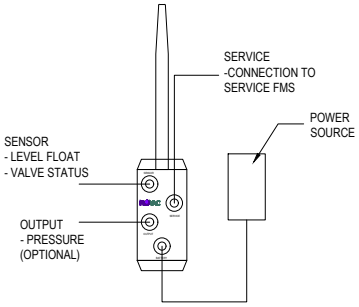
PROJECT: CWMS TYPICAL DRAWINGS

PLAN #: AC-CWMS-SD

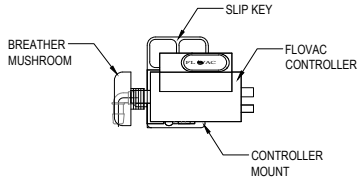
TITLE: FLOATING INTAKE DETAIL

SHEET: 18

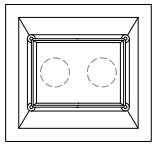
REV: A



3 - FMS MONITORING EQUIPMENT CONNECTION DETAILS

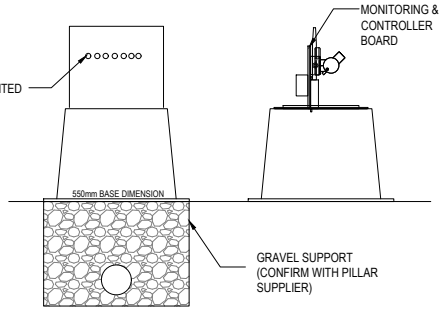


3 - REMOTE MOUNTED CONTROLLER ASSEMBLY DETAILS



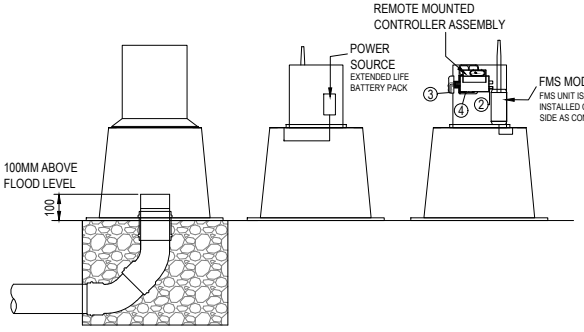
2C - TOP VIEW

CABAC BOX INSTALLED AS TO PROVIDE BASE OF UNIT WITH MIN. 250MM CLEARANCE TO BOTH PROPERTY BOUNDARY (SURVEY PEG) & EDGE FOOTPATH.



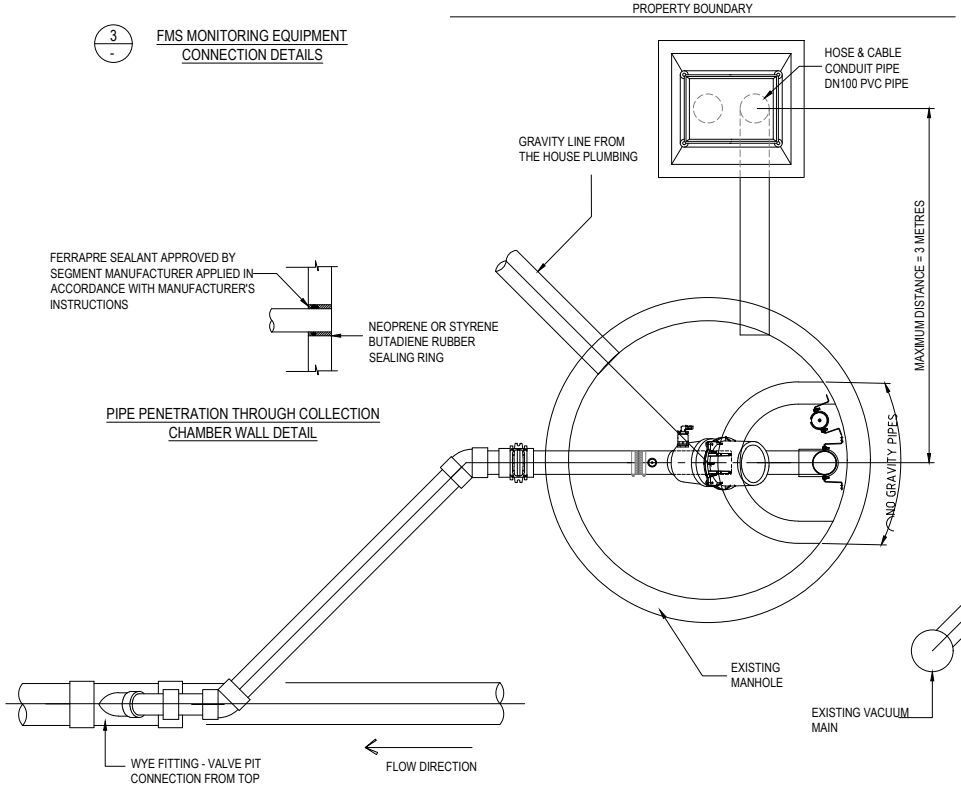
2A - FRONT VIEW

MONITORING & CONTROLLER BOARD

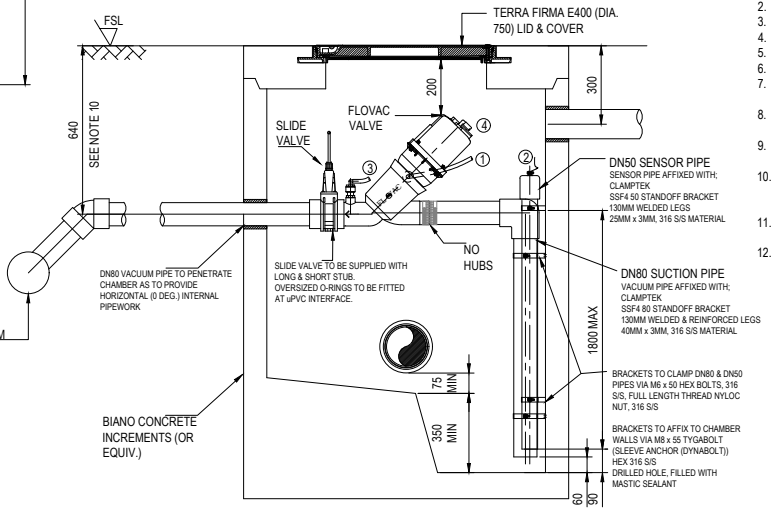


2B - SIDE VIEW

2 - EXTERNAL CONTROLLER & MONITORING EQUIPMENT -CABAC PILLAR



1 - TYPICAL VALVE ARRANGEMENT



1B - EXISTING CONCRETE MANHOLE CUT-OUT VIEW

1A - PLAN VIEW

NOTES:
1. DIMENSIONS ARE IN MILLIMETRE UNLESS OTHERWISE INDICATED.
2. CONSULT FLOVAC FOR ANY DISCREPANCY IN THE DRAWINGS
3. MOUNTING SCREWS NOT INCLUDED (FOR JB & REMOTE MOUNT)
4. ALL EMBEDMENT DETAILS SHOWN ARE INDICATIVE ONLY, TO BE CONFIRMED BY OTHERS
5. CIVIL, STRUCTURAL & EMBEDMENT DESIGN, ASSEMBLY AND CONSTRUCTION BY OTHERS
6. ENSURE ALL HOSES ARE NOT KINKED & NO DEAD LEGS
7. 10MM (3/8") HOSE BETWEEN CONTROLLER AND SENSOR PIPE TO HAVE 200MM SLACK FOR OPERATION AND MAINTENANCE
8. HOSE CLAMPS MUST BE SECURELY FITTED ON BOTH ENDS OF THE GREY SENSOR HOSE AND ON BARBS OF THE BREATHER HOSE
9. MAXIMUM ALLOWABLE HOSE LENGTH IS 5M, HENCE MAXIMUM DISTANCE BETWEEN MANHOLE EXTERNAL WALL TO CENTRELINE OF PILLAR APPROXIMATELY 3M.
10. VALVE TO BE AS SHALLOW AS POSSIBLE, HOWEVER TO ENSURE THAT THE TOP OF THE VALVE / VALVE BONNET WITH THE PLUNGER CAN STILL BE REMOVED. THE FLEXIBILITY IS MOVING THE SLIDE VALVE CLOSER TO THE WALL.
11. PROVIDE ADEQUATE WALL SUPPORT/ CLAMP FOR BOTH SENSOR AND SUCTION PIPES PREFERABLY EVERY 500MM.
12. ENSURE THERE ARE NOT KINKING OF HOSES ON THE CABAC PILLAR.

FLOVAC SUPPLY ITEMS

QTY	DESCRIPTION	REMARKS
1	FLOVAC VALVE	
1	FLOVAC CONTROLLER	
1	FLOVAC DN80 SLIDE VALVE (VACUUM RATED)	
2	FLOVAC NO HUB COUPLING	
1 LOT	5/8" CLEAR HOSE FOR BREATHER	5M MAXIMUM
1 LOT	3/8" GREY HOSE - SENSOR CAP TO CONTROLLER	5M MAXIMUM
1 LOT	3/8" GREEN HOSE - VALVE TO CONTROLLER	5M MAXIMUM
1 LOT	3/8" YELLOW HOSE - VALVE TO CONTROLLER	5M MAXIMUM
1	CABAC PILLAR	BY OTHERS
1	FLOVAC REMOTE MOUNT ASSEMBLY WITH SLIP KEY	
1	FMS EQUIPMENT	

FOR APPROVAL
APP'D S.RATCLIFF DATE -
TEAM LEADER WATER INFRASTRUCTURE

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Alexandrina Wastewater

PROJECT: CWMS TYPICAL DRAWINGS
PLAN #: AC-CWMS-SD
TITLE: TYPICAL VACUUM COLLECTION PIT
SHEET: 19
REV: D

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