



SUPPLY CHAIN MANAGEMENT

Enquiries: Ms. I Thesen Ref: 6/4/2 Tel: (021) 808 8720 E-mail: Ingrid.thesen@stellenbosch.gov.za

As per e-mail:

Dear Sir /Madam

NOTICE TO BIDDERS

ADDENDUM: TENDER B/SM 28/21: UPGRADING OF THE WEMMERSHOEK WASTEWATER TREATMENT WORKS: PHASE 1

The compulsory site meeting held on 16 November 2020 at 10h00 at Wemmershoek Sewage treatment plant, has reference.

1. Replace the Item in Bill of Quantities (Page 155):

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
P1.2.17	PSA 8.4.7	Contractors obligations in respect of the Environmental Management Programme	Prov Sum	1.00			

With:

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
P1.2.17	PSA 8.4.7	Contractors obligations in respect of the Environmental Management Programme	Sum	1.00			

2. Replace the Item in Bill of Quantities (Page 162 - 163):

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
C2.9.2		Supply and install doors, gates complete with frames and all fittings as per drawings and specifications:					
		Supply and HDG Steel door (door frame to be 1900mm high x 2500mm wide standard heavy duty steel double door with Louvres, rebate for 280mm wall) Item to include all associated ironmongery (hinges, bolts, catches, cabin hooks, handles etc) and rubber door stops:					
C2.9.3		External 2500mm x 1900mm	No	3			



With:

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
C2.9.2		Supply and install doors, gates complete with frames and all fittings as per drawings and specifications:					
		Supply and HDG Steel door (door frame to be 2400m high x 1600mm wide standard heavy duty steel double door with Louvres, rebate for 280mm wall) Item to include all associated ironmongery (hinges, bolts, catches, cabin hooks, handles etc) and rubber door stops:					
C2.9.3		External 2400mm x 1600mm	No	3			

3. Add drawing ST1077/G706/00_1, ST1077/G706/00_2 and ST1077/G706/00_3 to the Drawing List to read with Item C2.9.3 External 2400mm x 1600mm in the Bill of Quantities (Page 163).

4. Remove Duplicate Item in Bill of Quantities (Page 167):

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
C2.20.8		Column Jib Crane (Supply and install)	Prov Sum	1.00	200 000	200 000	00

5. Replace the Item in Bill of Quantities (Page 185):

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
M3.10	2	Alterations to existing suction and discharge pipework to suit new pump sets	Sum	1.00			

With:

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
M3.10	2	Alterations to existing suction and discharge pipework to suit new pump sets	Prov Sum	1.00	40 000	40 000	00

6. Replace the Item in Bill of Quantities (Page 190-191):

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
	5.7	Building Fire System					
		Standard cost per outlet					



		point for the complete supply and installation of recessed fire system including all required material and labour (conduit, conductors, draw-wire, terminations etc...), as per detailed drawings					
E1.14.48		Extension of existing Dewatering building	Sum	1.00			
	5.8	Building Alarm System					
		Standard cost per outlet point for the complete supply and installation of recessed alarm system including all required material and labour (conduit, conductors, draw-wire, terminations etc...), as per detailed drawings					
E1.14.49		Extension of existing Dewatering building	Sum	1.00			

With:

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
	5.7	Building Fire System					
		Standard cost per outlet point for the complete supply and installation of recessed fire system including all required material and labour (conduit, conductors, draw-wire, terminations etc...)					
E1.14.48		Extension of existing Dewatering building	Prov Sum	1.00	75 000	75 000	00
	5.8	Building Alarm System					
		Standard cost per outlet point for the complete supply and installation of recessed alarm system including all required material and labour (conduit, conductors, draw-wire, terminations etc...)					
E1.14.49		Extension of existing Dewatering building	Prov Sum	1.00	75 000	75 000	00



7. Replace the paragraph in 3.4.3.1 GENERAL SCOPE (Page 274):

- "PART 1 - Upgrading of the existing inlet works vortex grit removal system, including ancillary pipes and closure plates. The existing paddles and submersible grit removal pumps at the two grit chambers are to be removed and replaced with new paddles and self-priming grit removal pumps. The system is to be connected to the existing grit classifier feed line."

With:

- "PART 1 - Upgrading of the existing inlet works vortex grit removal system, including ancillary pipes and closure plates. The existing paddles and submersible grit removal pumps at the two grit chambers are to be removed and replaced with new paddles and **submersible** grit removal pumps. The system is to be connected to the existing grit classifier feed line."

8. Add Attached Drawing ST1077/AB000/00: Existing Inlet Works to the Drawing List on page 206 and 362.

9. Replace drawing ST1077/M10-001/0 Wemmershoek WWTW – Belt Press Building Mechanical Layout with drawing number ST1077/M10-001 on page 206 and 362.

10. Add the following on page 282, Part C3.4: Construction, Section 2: Mechanical: Part 1 Existing Inlet Works under paragraph 1.1 New Grit Removal Pump Set, please add the following wording:

"Each pump shall be designed to deliver a duty of 12 l/s @ 6 m."

11. Add the following on page 294, Part C3.4: Construction, Section 2: Mechanical: Part 3 Pump Station under 1.2. Sludge Feed Pumps Station:

- Nominal operating point: 6.9 l/s (25 m³/h) @ **4.6m**
- Maximum operating point: 11.1 l/s (40 m³/h) @ **4.9m**
- Minimum operating point: 2.8 l/s (10 m³/h) @ **4.5m**

12. Replace the paragraph in 8.1 Lifting Equipment (Page 294):

"The Davit shall be designed with a minimum SWL of 3.0 tons and shall be equipped with an electrical chain hoist rated for a SWL of 3.0 tons. The davit shall be designed to reach a trolley onto which the pallet shall be loaded to transport the pallet to where the storage area and loading hopper is situated."

With:

"The Davit shall be designed with a SWL of **0.5 tons** and shall be equipped with an electrical chain hoist rated for a SWL of **0.5 tons**. The davit shall be designed to **reach a minimum height of 3m** to a trolley onto which the pallet shall be loaded to transport the pallet to where the storage area and loading hopper is situated."

13. Local Content Declaration – Summary Schedule Annexure C:

13.1 Remove Tender Item number (Page 80):

Item E4.2 and E4.40 – E4.41

AM



13.2 Replace Tender Item number (Page 92):

Item C6.3.13 with Item C6.3.9, and Item C6.3.14 with Item C6.3.10

- 14. Replace the paragraph in MSS05 – Mechanical Equipment for WWTW – REV02 (located on the enclosed CD provided with the tender document) Mechanical Standard Specification 05 – Mechanical Equipment for Wastewater Treatment (Page 77) under sub-heading “Drainage and Wedge Zone” the following two sentences in the first paragraph must be deleted:**

“The gravity dewatering zone shall have a minimum length of 3.7 m for optimum drainage. The wedge zone shall have a minimum length 0.9 m and designed to allow dewatering to both sides of the wedge area by vertical arrangement.”

With:

“The gravity dewatering zone shall have a minimum length of **3.0 m** for optimum drainage. The wedge zone shall have a minimum length **0.6 m** and designed to allow dewatering to both sides of the wedge area by vertical arrangement.”

- 15. Replace the paragraph in MSS05 – Mechanical Equipment for WWTW – REV02 (located on the enclosed CD provided with the tender document) Mechanical Standard Specification 05 – Mechanical Equipment for Wastewater Treatment (Page 77) under sub-heading “Pressure Dewatering Zone”**

“Depending on the sludge characteristics the high pressure dewatering zone shall be capable to be configured with additional 2, 4 or 6 press rollers. The press design should accommodate the installation of the additional press rollers in this zone should it be required.”

With:

“Depending on the sludge characteristics the high pressure dewatering zone shall be capable to be configured with additional **2** press rollers. The press design should accommodate the installation of the additional press rollers in this zone should it be required.”

The following Questions were raised at the site meeting and were answered as follows:

Question 1: Vortex degritter sectional drawings required.

Answer: Add Drawing ST1077/AB000/00 Existing Inlet Works to the Drawing List on page 206 and 362 with the attached drawing. — see point 8

Question 2: Grit pumps duties required

Answer: On page 282, Part C3.4: Construction, Section 2: Mechanical: Part 1 Existing Inlet Works under paragraph 1.1 New Grit Removal Pump Set, please add the following wording:

“Each pump shall be designed to deliver a duty of 12 l/s @ 6 m.” — point 10.

Question 3: Poly pump drawing layout required. Reference is made to a drawing in tender specification. Not on cd.

W



Answer: Replace drawing ST1077/M10-001/0 Wemmershoek WWTW – Belt Press Building Mechanical Layout with drawing number ST1077/M10-001.

point 9.

Question 4: 5.2.2 – Valves – page 292. You refer to BOQ and drawings for valves sizing. Neither can be found in the spec or drawings on cd.

Answer: On page 292, Part C3.4: Construction, Section 2: Mechanical: Part 2 Dewatering Facility under paragraphs 5.2.2.1 Isolating Valves and 5.2.2.2 Non-return Valves, please delete the following wording: "and Bill of Quantities"

Question 5: What is the difference in head between the pump and the belt-press building?

Answer: On page 294, Part C3.4: Construction, Section 2: Mechanical: Part 3 Pump Station under 1.2. Sludge Feed Pumps Station, please add the following:

- Nominal operating point: 6.9 l/s (25 m³/h) @ **4.6m**
- Maximum operating point: 11.1 l/s (40 m³/h) @ **4.9m**
- Minimum operating point: 2.8 l/s (10 m³/h) @ **4.5m**

point 11.

Question 6: Effluent Washwater pumps – page 295 – point 2 Pipework. You make reference to a mechanical drawing. Also, not part of tender drawing list.

Answer: The pipework changes can be finalised during construction, based on the final approved pump set, therefore page 185 in Bill of Quantities line item M3.10 must be changed to a **Prov Sum**, with a **value of R 40 000-00**.

point 5.



**DIRECTOR
CORPORATE SERVICES**

DATE: 26/11/20.

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Note: Confirmation to the addendum

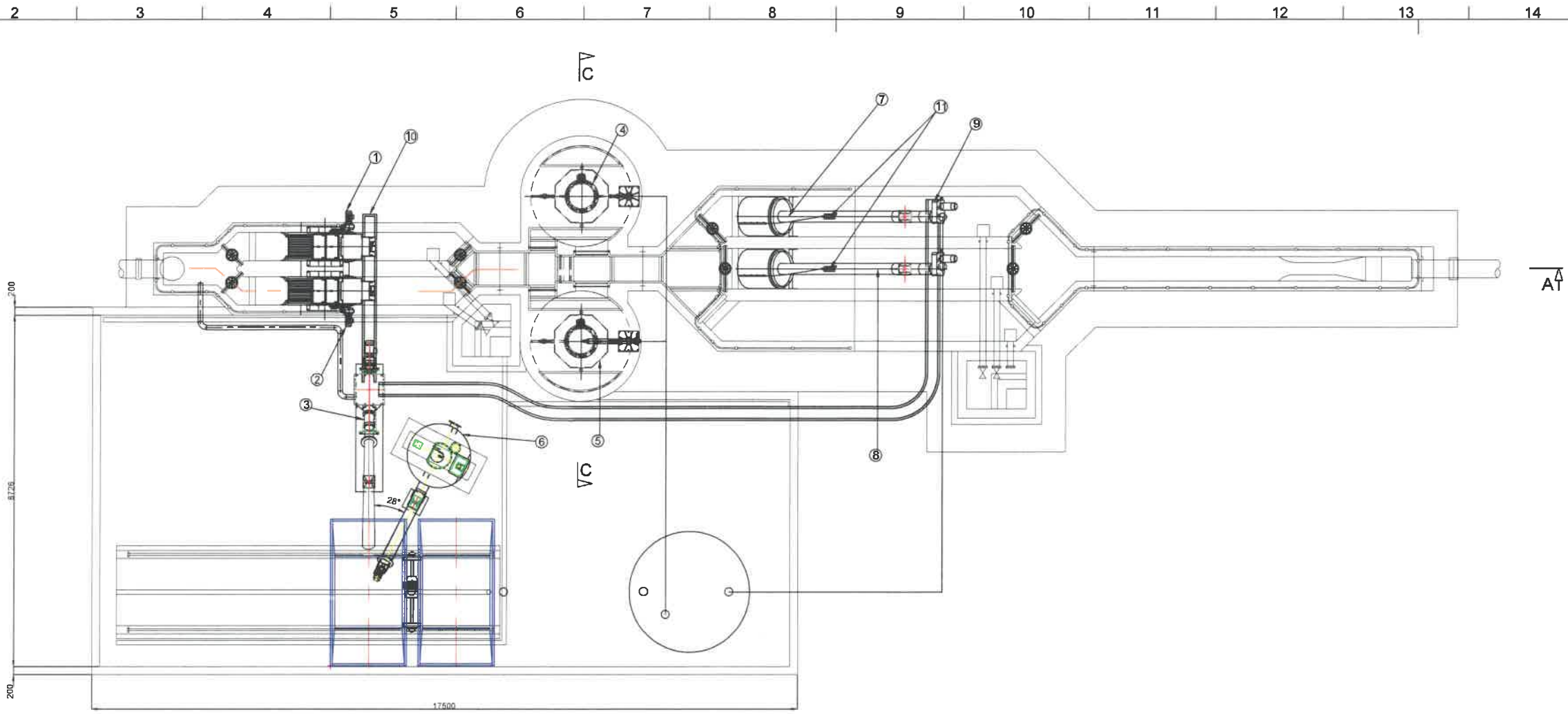
CONFIRMATION

I (Name) hereby declare on behalf of
..... (Company's name),
to agree/not agree (please encircle) to the above changes in the bidding documentation.

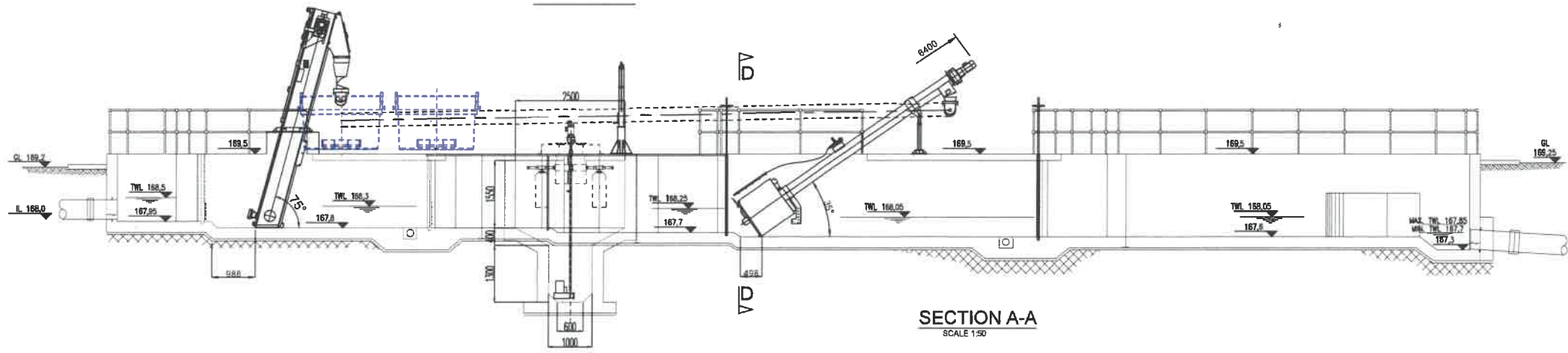
Address: Tel no.:
..... Fax no.:
.....
Signature of bidder: Date:.....

NOTES

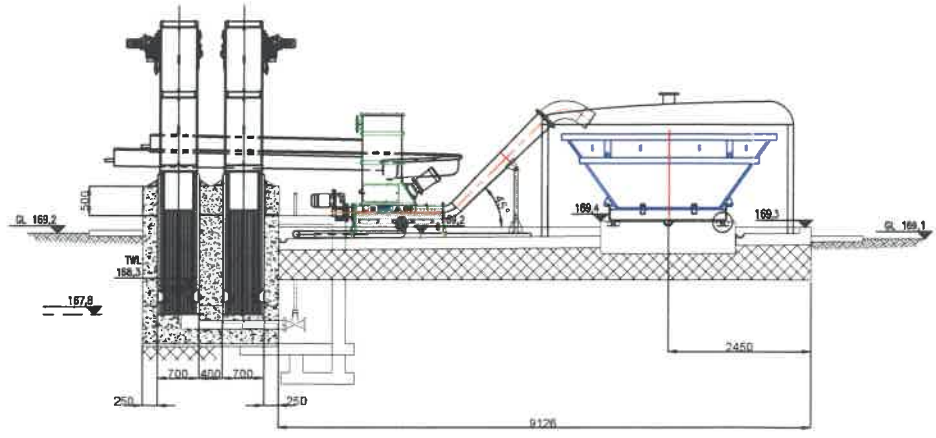
- 1 - Rakemax 4300 x 452 x 6
- 2 - Rakemax 4300 x 452 x 6
- 3 - WAPSL 2 Wash Press
- 4 - Vortex Decritter Paddle No.1
- 5 - Vortex Decritter Paddle No.2
- 6 - Coanda RoSF3e Grit Classifier
- 7 - RPPS 1000/2 - Perforated Plate Screen No.1
- 8 - RPPS 1000/2 - Perforated Plate Screen No.2
- 9 - Fine Screen Launder
- 10 - Coarse Screen Launder
- 11 - Wash Water Connection



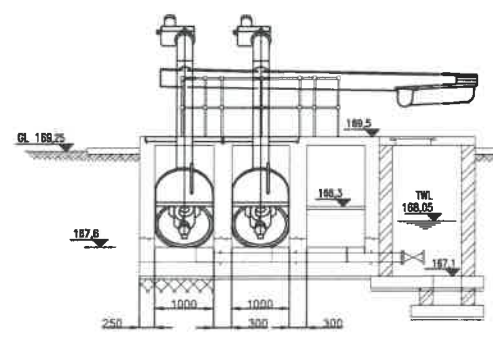
PLAN VIEW



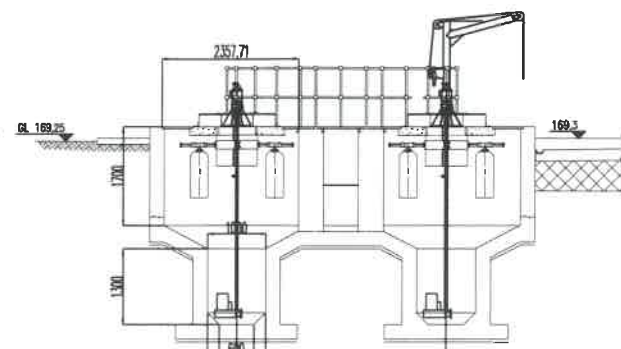
SECTION A-A
SCALE 1:50



SECTION B-B
SCALE 1:50

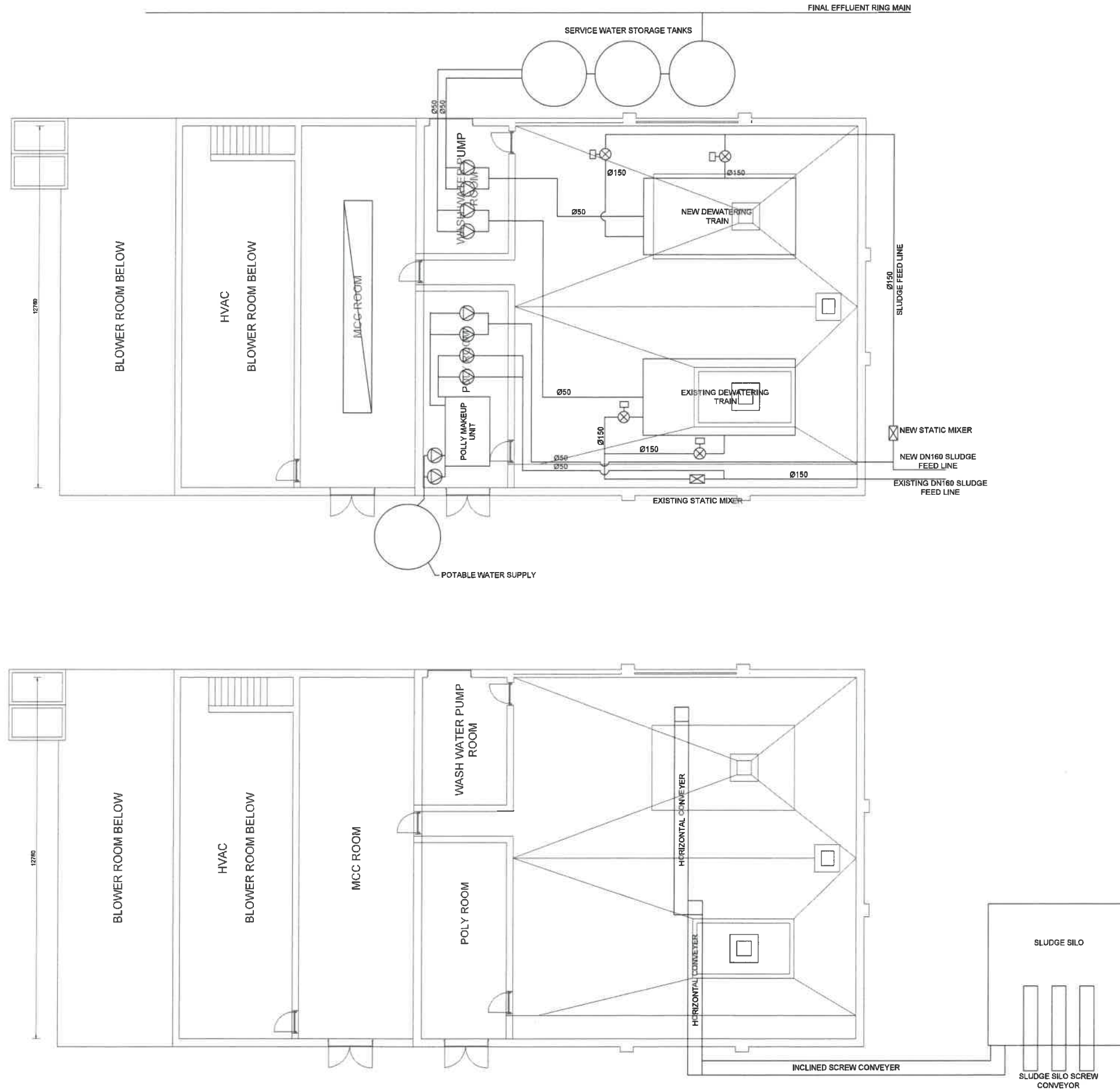


SECTION D-D
SCALE 1:50



SECTION C-C
SCALE 1:50

AW



NOTES

1. All drawings shall be read in conjunction with the relevant Project - Standard Specifications and Schedule of Prices
2. Drawings are for tender purposes only
3. All dimensions and levels to be confirmed on site prior to compilation of workshop drawings
4. Do not scale drawings, dimensions only to be used
5. Contractor to submit workshop drawings for approval
6. All dimensions in millimetres unless otherwise indicated
7. All piping Flanged to SANS 1123, Table 1000/3
8. All casting of mechanical pipework to be done by the civil contractor in conjunction with the mechanical contractor
9. Contractor to provide pipe supports to secure all pipework

LEGEND

DRAWING APPROVAL

AMENDMENTS

NO.	DATE	INITIALS	DESCRIPTION
A	20/11/18	PJ	GENERAL AND PIPEWORK SIZING

REVISION	A	PHASE	TENDER
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CLIENT



Upgrading of Wemmershoek Wastewater Treatment Works

DRAWING TITLE

Wemmershoek WWTW - Belt Press Building Mechanical Layout



1st FLOOR NPK BUILDING 20 PLEIN STREET STELLENBOSCH 7800	PO BOX 6353 LINDSAY 7812 TEL: 021 886 6896 EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA
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DESIGNED BY	PJ	DRAWN BY	TB
DESIGNED CHECKED	TA	DRAWING CHECKED	PJ

APPROVED BY

Tokuz Augustyn - Pr. Tech Eng (Mechanical) DATE

CONTRACT NO.
BSM 39/18 BS 4/47

FILE NO.
ST1077/DRW/TENDER

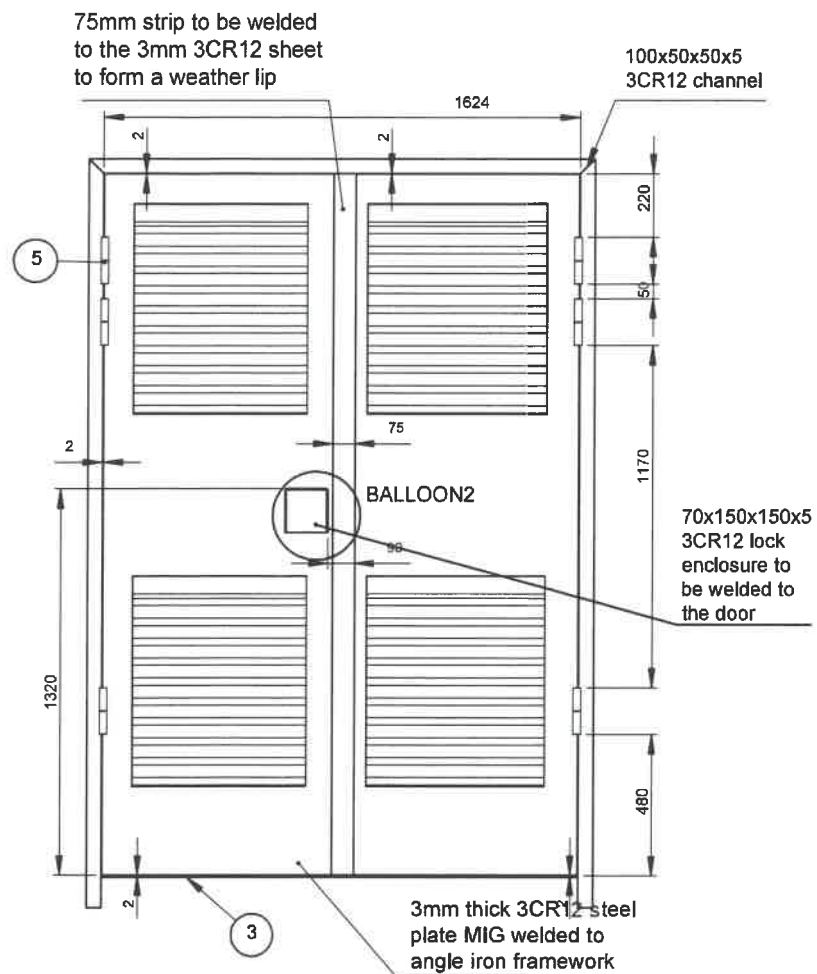
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DATE
June 2020

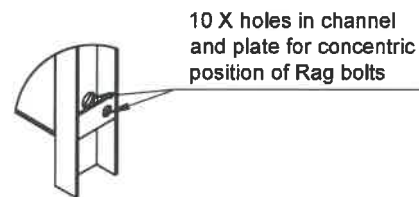
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ST1077/M10-001

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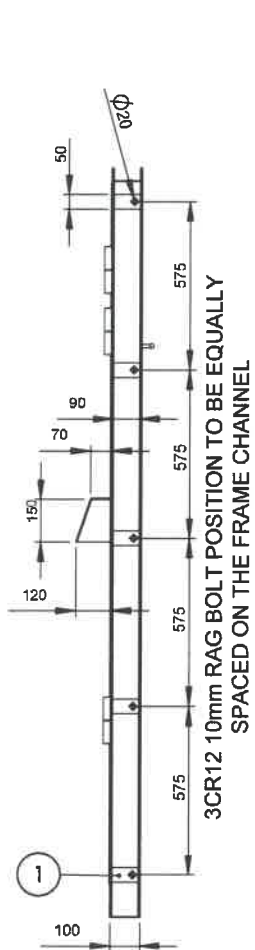
NOTE:
 THE WELDS ALONG THE 50x50x5 3CR12 ANGLE IRON ARE TO ENSURE RIGIDITY OF THE 3CR12 FLAT SHEET and the 50x50x5 3CR12 angle iron door frame, this also prevents the door frame from warping during the manufacturing process.
 Weld length = 50mm
 Distance between welds = 50mm



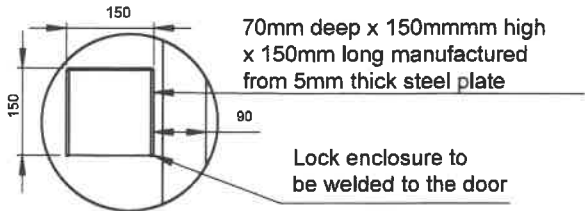
FRONT VIEW



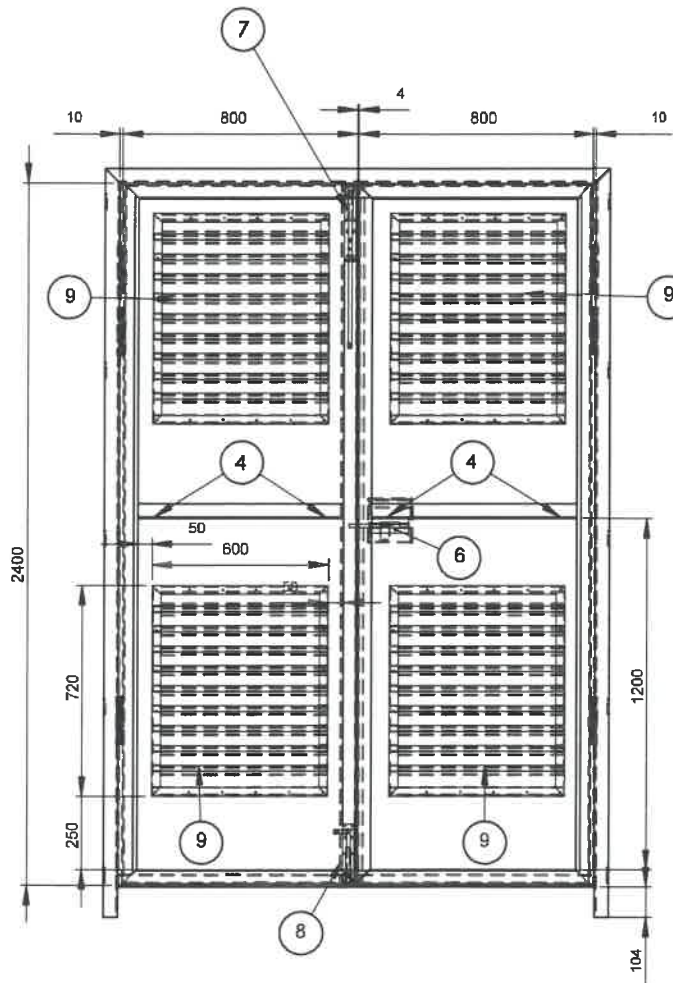
BALLOON 1



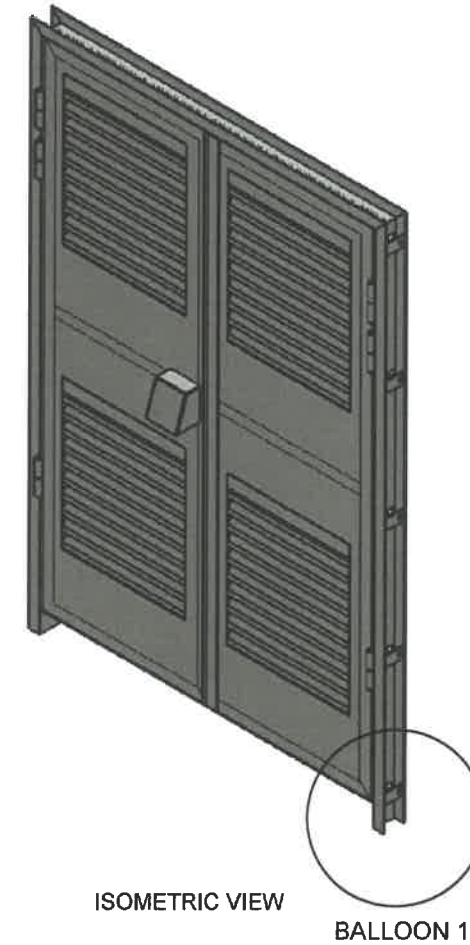
RIGHT VIEW



BALLOON 2



BACK VIEW



ISOMETRIC VIEW

BALLOON 1

NOTES:

1. Colour to be H65 Pastel Green
2. All mitred corners to be machine cut by mechanical saw.
3. All metal work to be inspected by the Engineer before & after painting as per Quality Control Procedure
- 4.1 **Surface Preparation**
Abrasive Grit Blast to ISO-SA 2
- 4.2 **Primer**
Two coats of 2 pack epoxy Prime (Sigmacover Primer; Carboline 193; Interguard 260 or equal approved)
- minimum 75 micrometer DFT
- maximum 100 micrometer DFT each
- 4.2 **Top Coat**
Two coats of 2 pack polyurethane enamel (Sigmadur Gloss; Carboline 134; Interthane 990 or equal approved)
- minimum 20 micrometer DFT
- maximum 35 micrometer DFT each
- 4.2 **Total System**
Minimum 190 micrometer DFT
Maximum 270 micrometer DFT

NOTES

LEGEND

DRAWING APPROVAL

AMENDMENTS

NO.	DATE	INITIALS	DESCRIPTION

REVISION 00 PHASE TENDER

CLIENT



PROJECT

Upgrading of Wemmerhoek Wastewater Treatment Works: Phase 1

DRAWING TITLE

Typical Steel Door
 2x800mm Type C3
 with Louvres
 (Sheet 1 of 3)



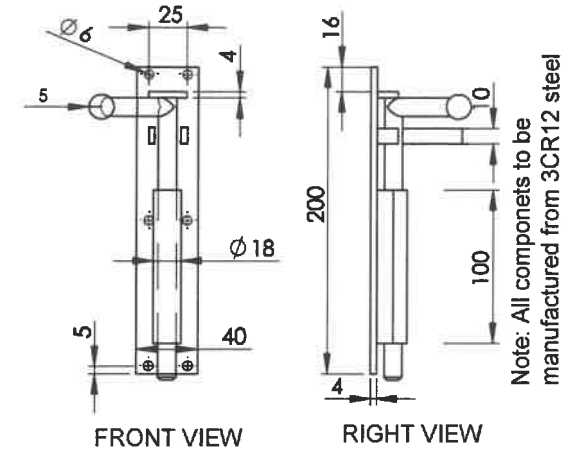
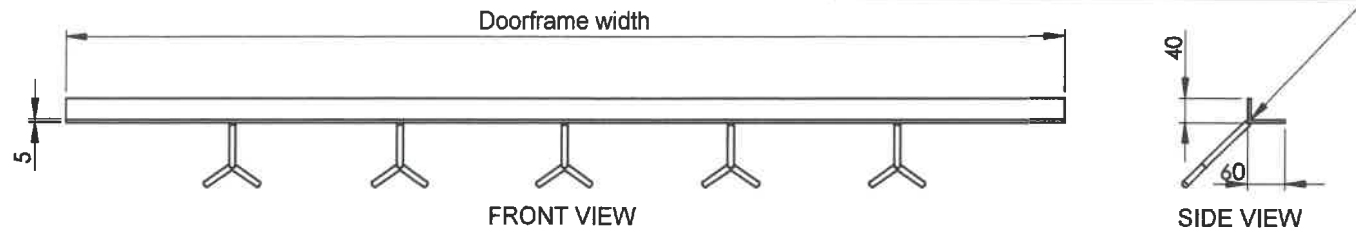
111 FLOOR NPK BUILDING 30 PLEIN STREET STELLENBOSCH 7600	PO BOX 8555 UNIBEDAL 7612 TEL: 021 886 6805 EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA
DESIGNED BY: NYSM	DRAWN BY: JB
DRAWING CHECKED: MCL	DRAWING CHECKED: MCL

APPROVED BY

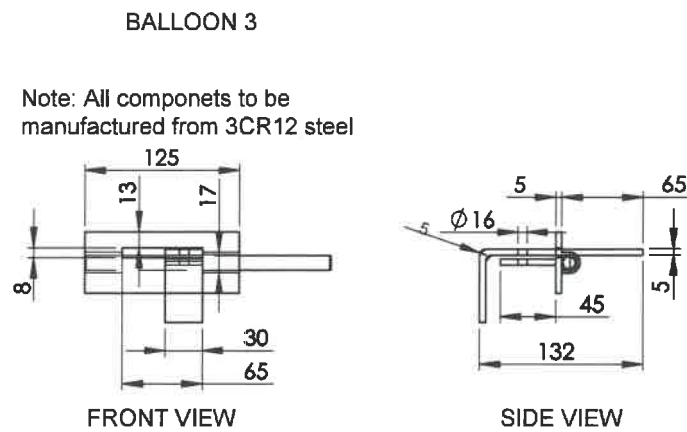
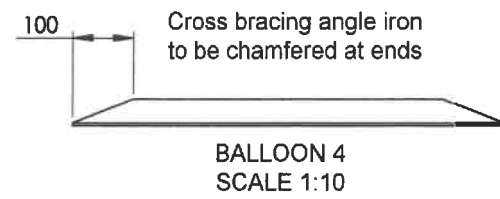
NE vs MERWE - PHENG - 20120187	DATE
CONTRACT NO. BSM 28/21	
FILE NO. ST1077/DRW/TENDER	
SCALE NTS (A3)	
DATE November 2020	
DRAWING NO. ST1077/G706/00-1	

NOTES

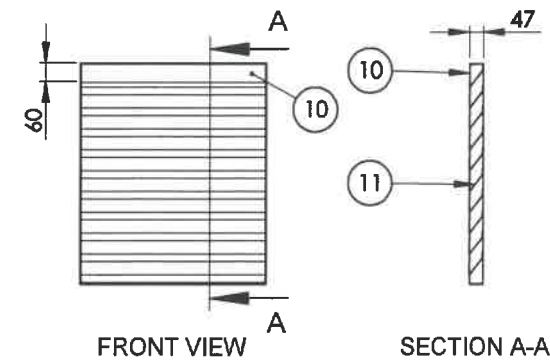
40x60x5 304L angle iron, set into concrete floor with 5x304L stainless steel rag bolt manufactured from 10mm round bar ± 100mm long to be set through angle at equal distance



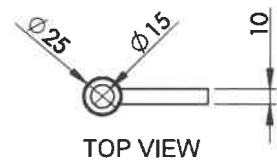
BALLOON 8
DROP BOLT



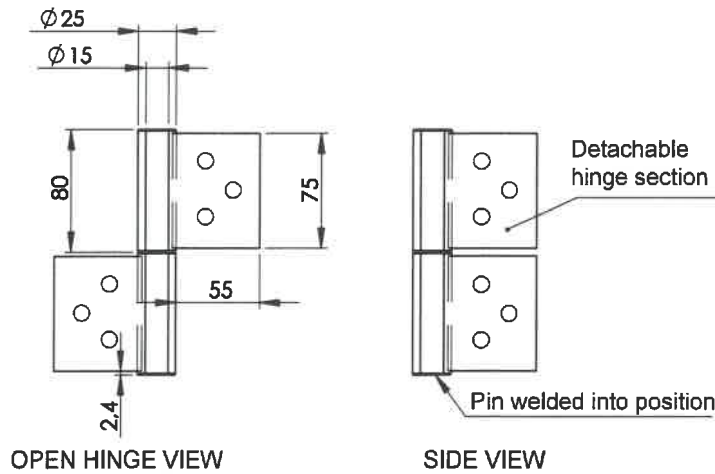
BALLOON 6
SLIDING BOLT



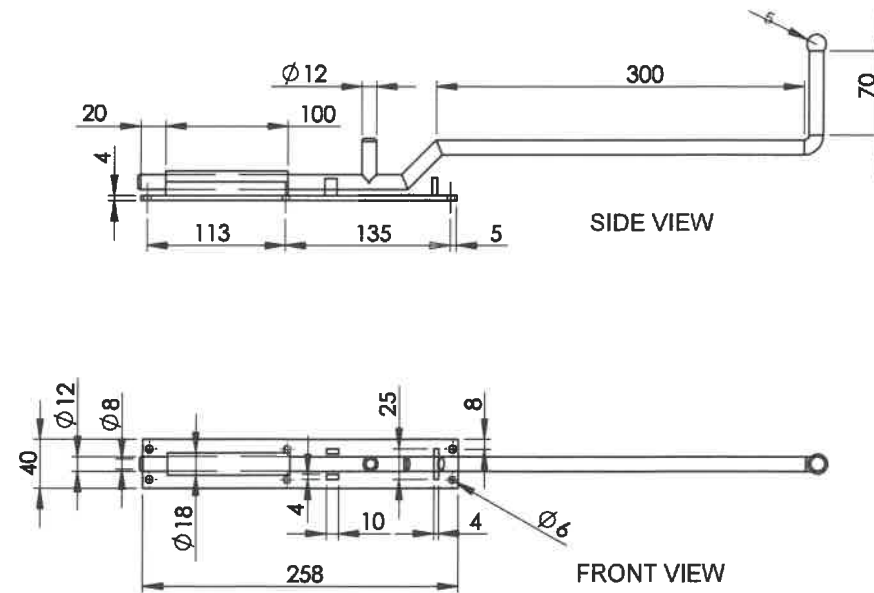
BALLOON 9
LOUVRE



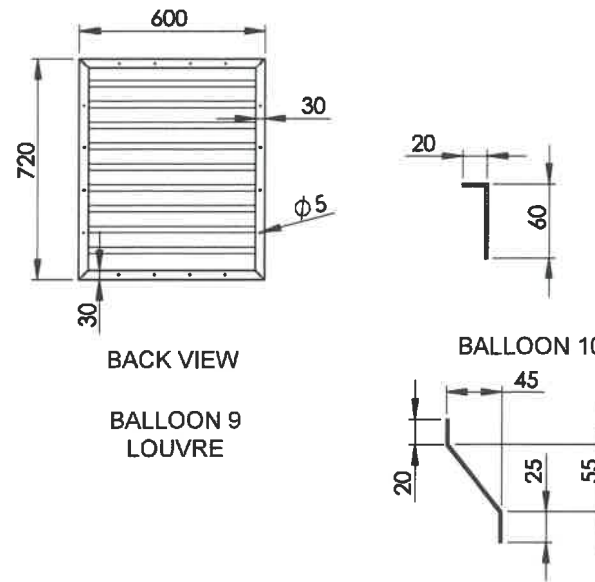
Note: All components to be manufactured from 3CR12 steel



BALLOON 5
TYPICAL HINGE



BALLOON 7
MONKEY TAILED BOLT



BALLOON 11

LEGEND

DRAWING APPROVAL

AMENDMENTS

NO.	DATE	INITIALS	DESCRIPTION

REVISION	00	PHASE TENDER
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CLIENT



PROJECT

Upgrading of Wemmerhoek Wastewater Treatment Works: Phase 1

DRAWING TITLE

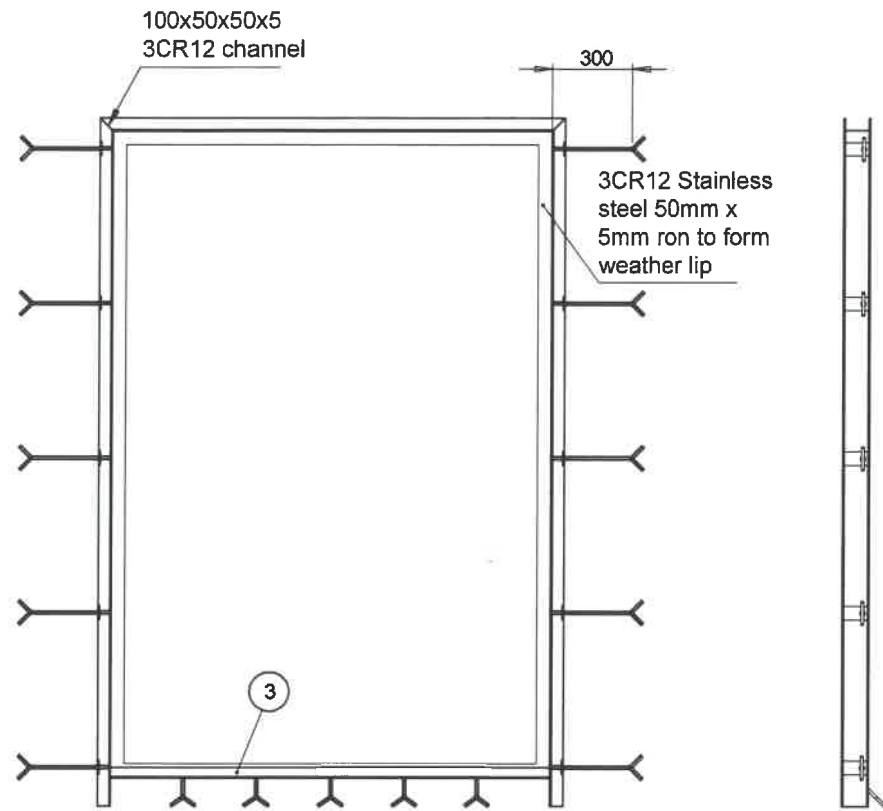
Typical Steel Door 2x800mm Type C3 with Louvres (Sheet 2 of 3)



DESIGNED BY	JB	DRAWN BY	JB
CHECKED BY	NJM	DRAWING CHECKED	MCL

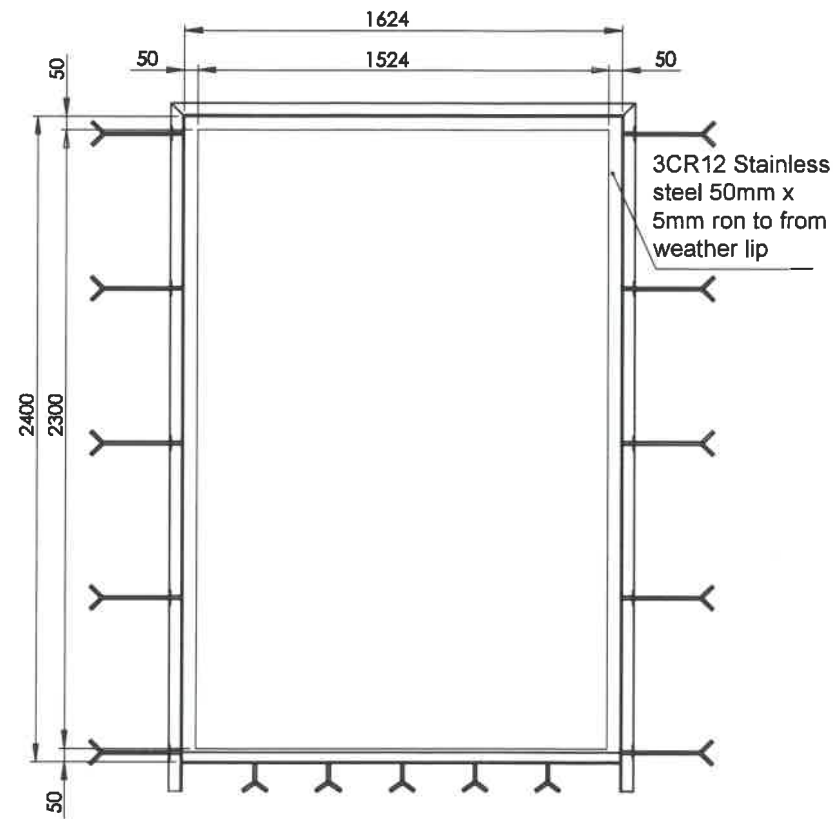
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CONTRACT NO.	BSM 28/21
FILE NO.	ST1077/DRW/TENDER
SCALE	NTS (A3)
DATE	November 2020
DRAWING NO.	ST1077/G706/00-2

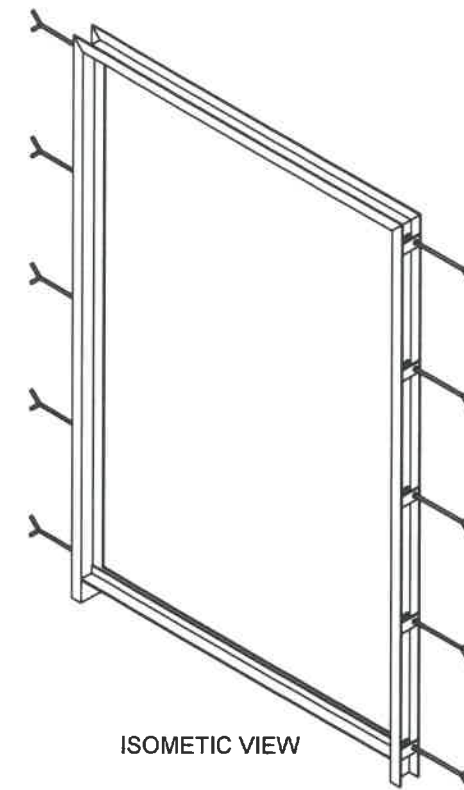


FRONT VIEW

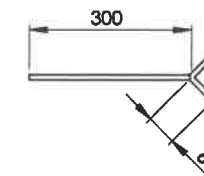
RIGHT VIEW



BACK VIEW



ISOMETRIC VIEW



RAG BOLT

NOTES

LEGEND

DRAWING APPROVAL

AMENDMENTS

NO.	DATE	INITIALS	DESCRIPTION

REVISION	00	PHASE	TENDER
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CLIENT



PROJECT

Upgrading of Wemmerhoek Wastewater Treatment Works: Phase 1

DRAWING TITLE

Typical Steel Door
2x800mm Type C3
with Louvres
(Sheet 1 of 3)



1st FLOOR NPK BUILDING PO BOX 6393
20 PLEIN STREET UNIBED
STELLENBOSCH 7812
7800 TEL: 021 888 6695
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

DESIGNED BY: JB DRAWN BY: JB
CHECKED BY: NNM DRAWING CHECKED: MCL

APPROVED BY

NE wt MERWE - PIENG - 20120187 DATE

CONTRACT NO.
BSM 28/21

FILE NO.
ST1077/DRW/TENDER

SCALE
NTS (A3)

DATE
November 2020

DRAWING NO.
ST1077/G708/00-3

M