

NOTES

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REVISIONS

No	DATE	CHECKED	APPROVED	DESCRIPTION

REFERENCE DRAWINGS

NUMBER	TITLE

ISSUED FOR RFQ



BOX 1127  
JOHANNESBURG  
2000  
TEL: 682-0911

RAND WATER

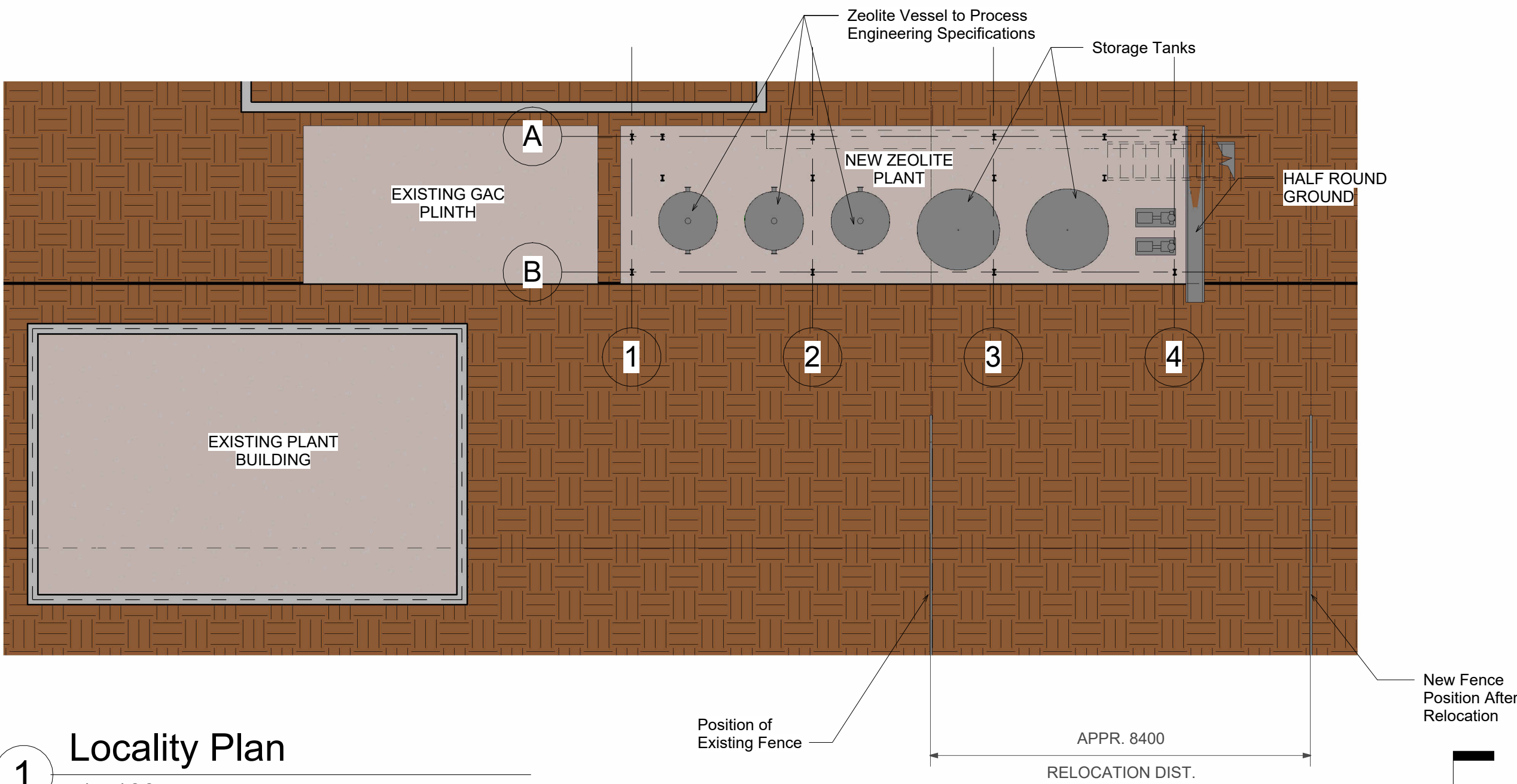
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PROJECT No	P. 00000	CHECKED	MAMABOLO	
NETWORK No				APPROVED
CONTRACT No				
DESIGNED BY	M. MAQINA	LEAD ENG.	M. CHIBU	
DRAWN BY	M. MAQINA	REG No		
DATE	APR. 2025	DATE		
		SECTION HEAD	M. CHIBU	

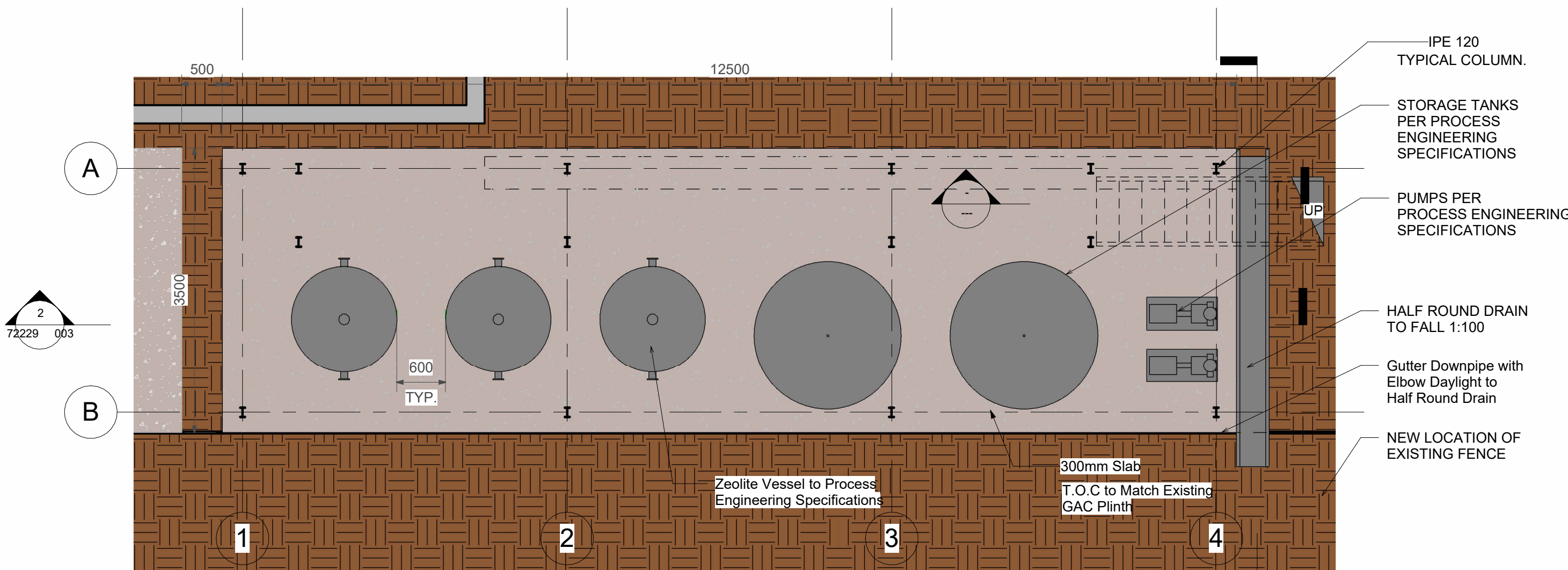
Barrage WTP  
Zeolite Station  
Civil Drawings

Barrage Zeolite Station - Steel and  
Concrete Details Sh 1

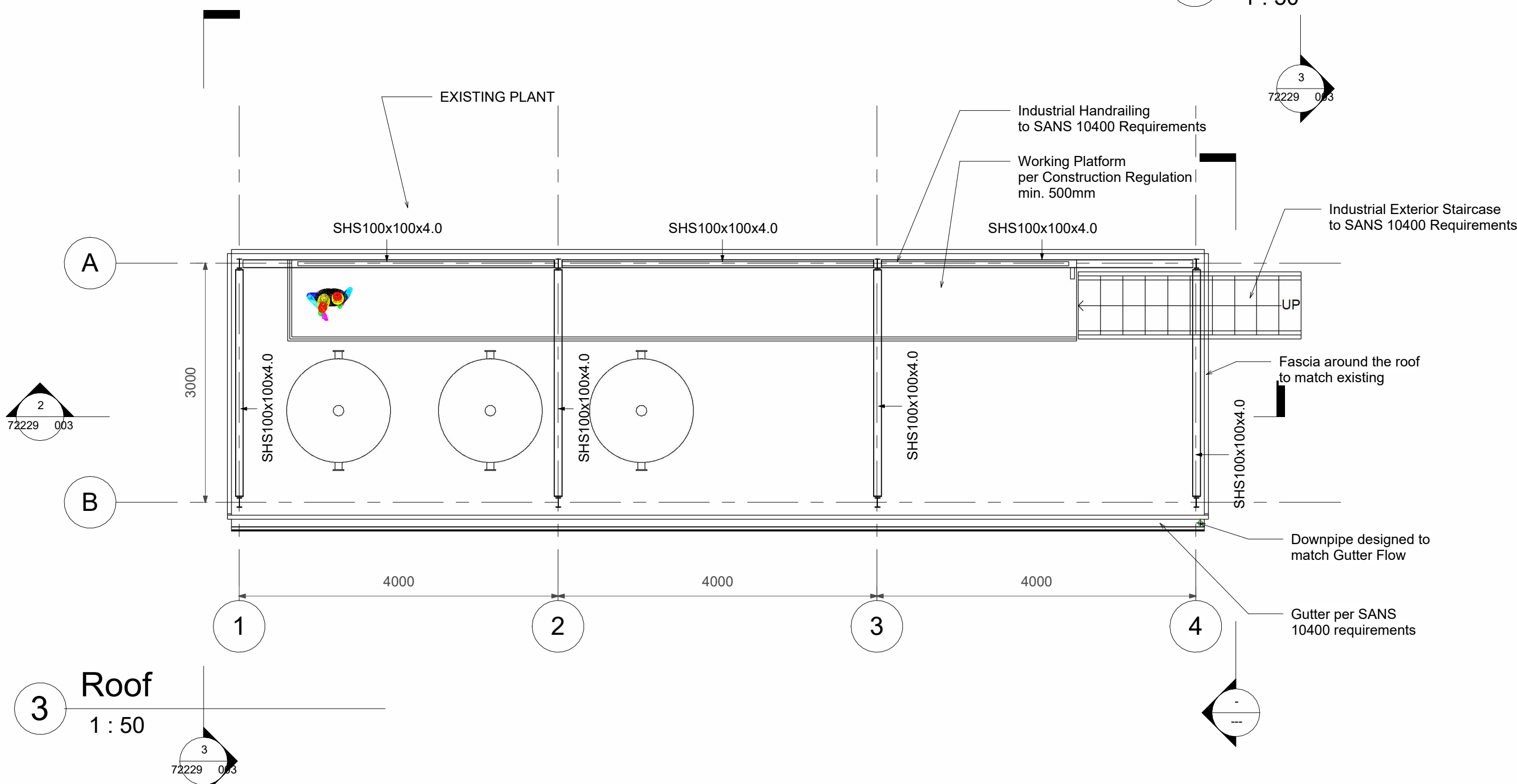
STATION		WKS		DOC. TYPE	S
SCALE					REVISION
A1		RA 72229 , 001			



1 Locality Plan  
1 : 100



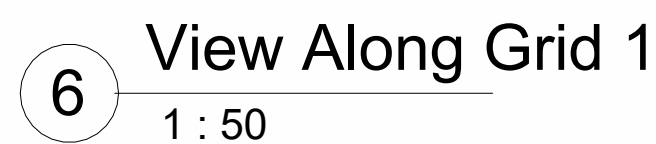
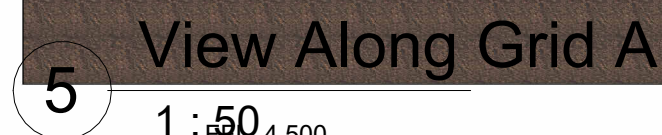
2 Zeolite Station Plan  
1 : 50



3 Roof  
1 : 50



**NOTE:**  
SIZE OF STRUCTURE AND MEMBER SIZES ARE SHOWN  
ONLY AS A GUIDELINE, SUBJECT TO THE DETAILED SIZING  
OF THE EQUIPMENT TO BE HOUSED UNDER THE STRUCTURE.





A 3D cutaway diagram of a wastewater treatment plant. The facility is housed in a long, rectangular building with a dark grey roof. Inside, there are several large, cylindrical tanks. From left to right, there are three smaller vertical tanks, followed by two larger horizontal tanks, and then a large vertical tank. A spiral staircase is visible on the right side of the building. The entire structure is set within a dark brown, textured ground area.

Zeolite Station 3D

STATION		WKS										DOC. TYPE			S
V	G	1	0	U	S	U						D	C	R	A
SCALE													REVISION		
A1				RA 72229 , 002											



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REVISIONS

No	DATE	CHECKED	APPROVED	DESCRIPTION
A	2023-05-15	L. MKHIZE	L. MKHIZE	INTERNAL CHECK
0	2023-05-15	L. MKHIZE	M. CHIBU	ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS

NUMBER	TITLE
61361_001	VG EMS Yard Spares Shed - Steel and Concrete Details
61362_001	VG EMS Yard Spares Shed - Steel Details
61362_002	VG EMS Yard Spares Shed - Connections Legend
61363	VG EMS Yard Spares Shed - Schedules
61377	Additions Store - Plans, Sections, Elevations & Schedules

ISSUED FOR RFQ



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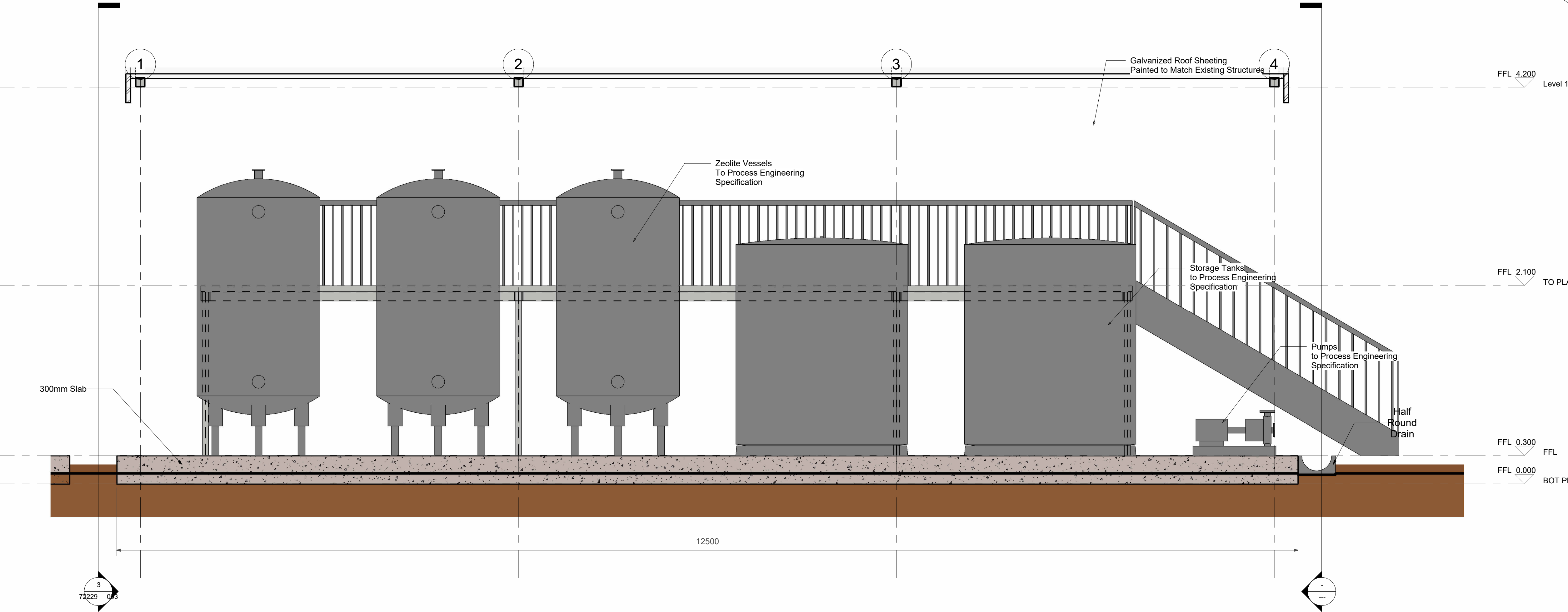
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PROJECT No	P. 00000	CHECKED	MAMABOLO	
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CONTRACT No		LEAD ENG.	M. CHIBU	
DESIGNED BY	M. MAQINA	REG No		
DRAWN BY	M. MAQINA	DATE		
DATE	APR. 2025	SECTION HEAD	M. CHIBU	

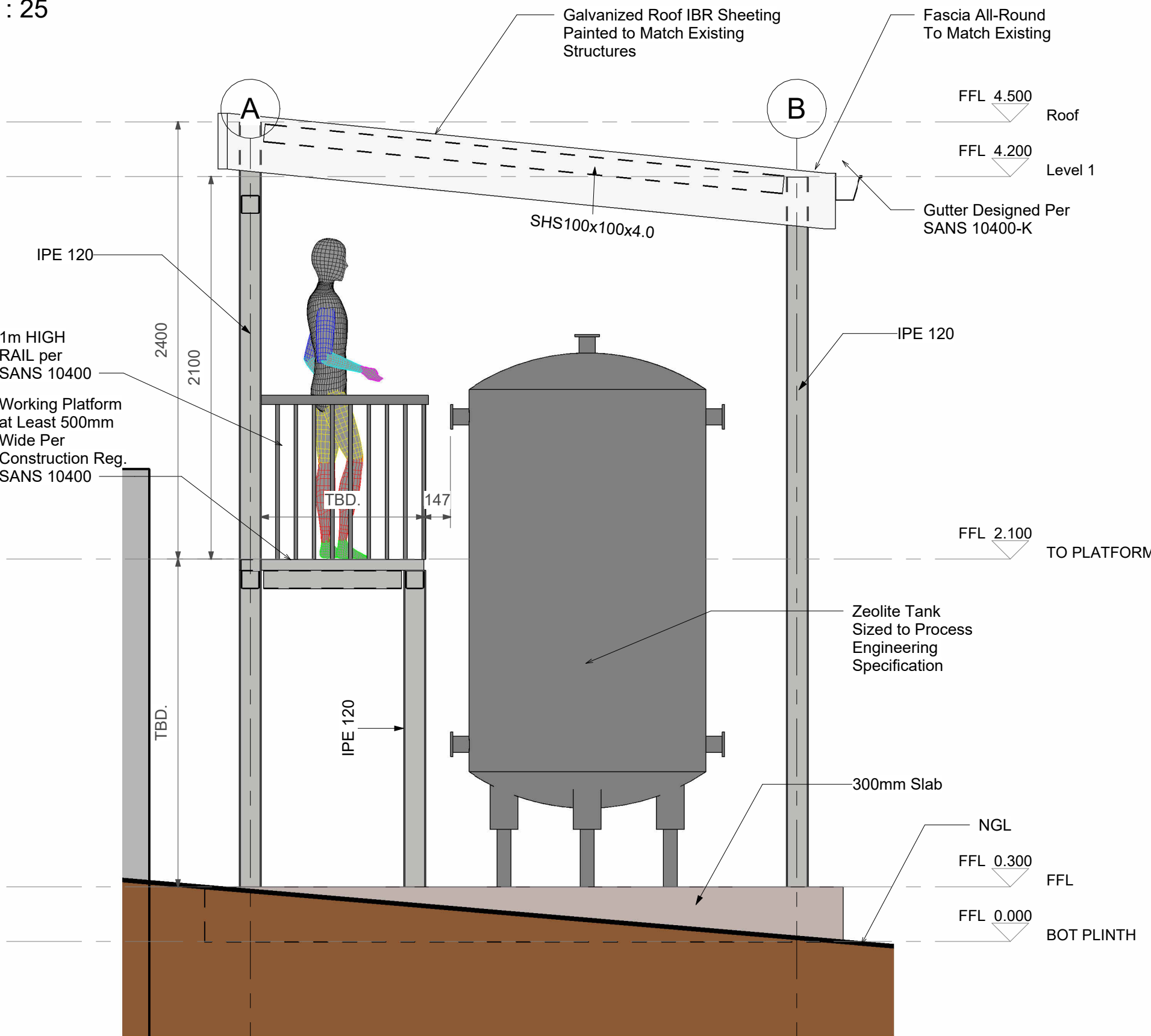
Barrage WTP  
Zeolite Station  
Civil Drawings

Barrage Zeolite Station - Steel and  
Concrete Details Sh 3

STATION	WKS	DOC. TYPE	S
V G	1 0 U S U	D C R	A
SCALE		REVISION	
A1	RA 72229 , 003		0



Section 1  
1 : 25



Section 2  
1 : 25

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Grating and Floor Schedule			
Type	Structural Material	Volume	Area
60mm Working Platform	Metal - Steel 50-355	0.59 m³	10 m²
300mm Slab	Concrete, Cast-in-Place - C30	19.95 m³	67 m²
Apron 85mm	Concrete, Cast-in-Place - C30	4.85 m³	57 m²
Grand total: 4		25.39 m³	133 m²

Structural Rafters and Beams				
Cut Length	Count	Structural Material	Mass	Family and Type
756	4	Metal - Steel 50-355	36.47 kg	Hollow Sections: SHS100x100x4.0
2361	2	Metal - Steel 50-355	56.93 kg	Hollow Sections: SHS100x100x4.0
2860	4	Metal - Steel 50-355	137.92 kg	Hollow Sections: SHS100x100x4.0
3221	2	Metal - Steel 50-355	77.67 kg	Hollow Sections: SHS100x100x4.0
3911	5	Metal - Steel 50-355	235.76 kg	Hollow Sections: SHS100x100x4.0
3987	2	Metal - Steel 50-355	96.15 kg	Hollow Sections: SHS100x100x4.0
Grand total: 19			640.90 kg	

Structural Column Schedule				
Length	Count	Type	Mass	Structural Material
1740	6	IPE 120	104.82 kg	Metal - Steel 50-355
3900	4	IPE 120	156.62 kg	Metal - Steel 50-355
4200	4	IPE 120	168.67 kg	Metal - Steel 50-355
Grand total	14		430.11 kg	

Fascia Schedule		
Type	Length	Count
Fascia	31000	1

Gutter Schedule		
Type	Material	Length
Gutter	Steel	12200

Roof Schedule	
Type	Area
IBR Sheetting	40 m <sup>2</sup>

Stair Schedule			
Type	Actual Number of Risers	Actual Riser Height	Actual Tread Depth
Industrial and Assembly	11	164	280

Rail And Fence Schedule			
Mark	Type	Length	Comments
Fence	900mm	17665	Not a new Fence. Relocate Existing Fence
Platform	Walkway Rail	20462	
Rail	Step Rail	6486	
Grand total: 8		44612	

DRG. No. RA 72229 004

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## REVISIONS

[illegible]

### REFERENCE DRAWINGS

[illegible]

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Barrage WTP  
Zeolite Station  
Civil Drawings

## Barrage Zeolite Station - Schedules

STATION				WKS										DOC. TYPE			S
V	G			1	0	U	S	U					D	C	R	A	
SCALE															REVISION		
A1				RA 72229										004			

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