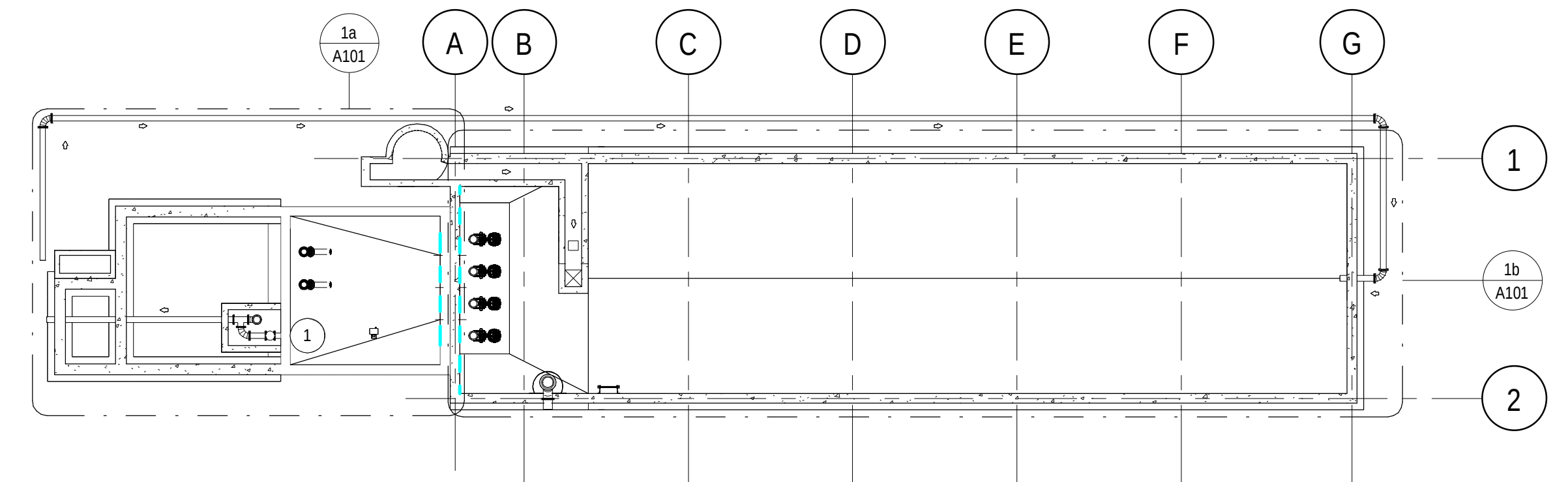
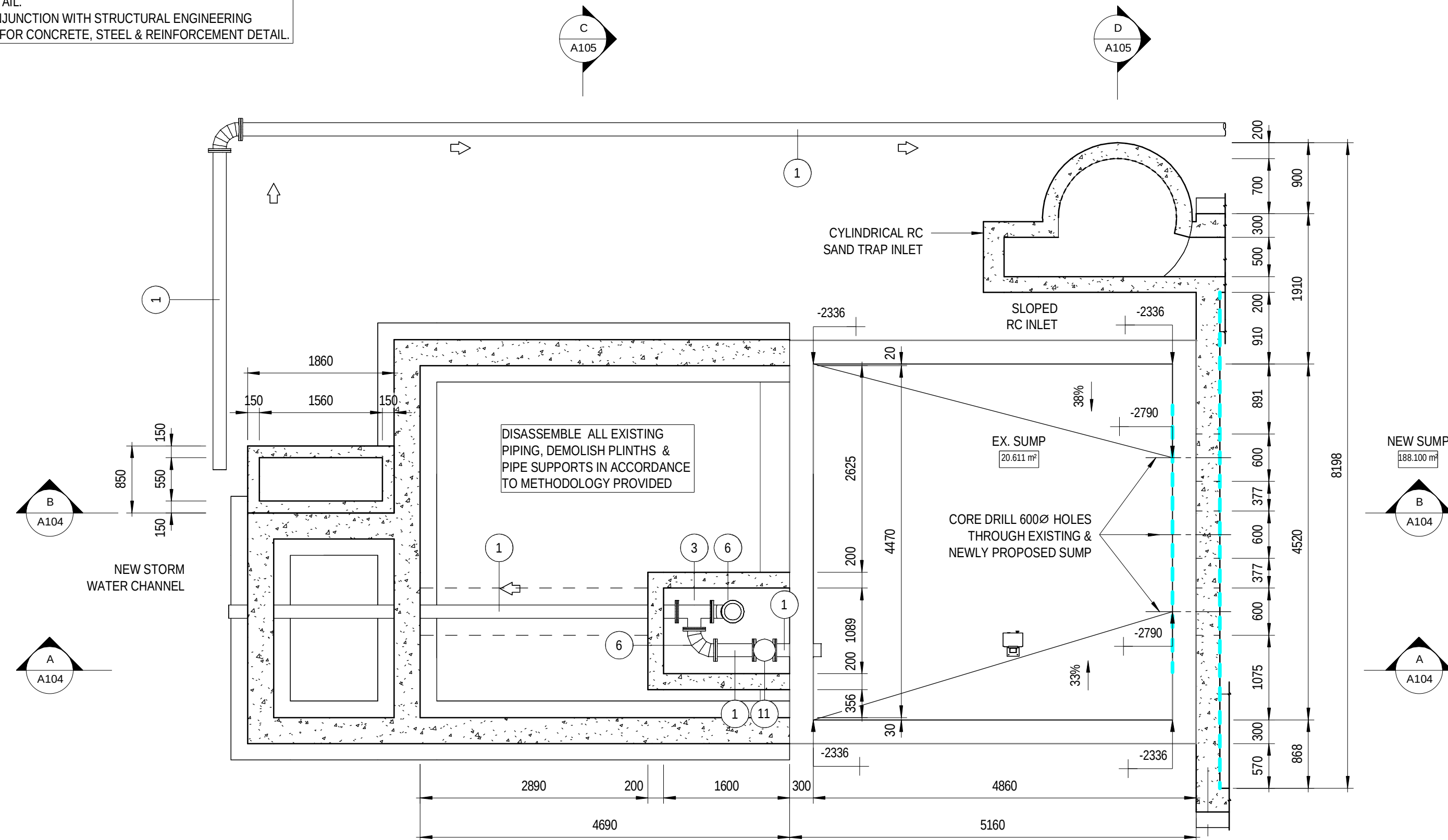
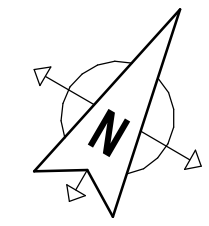


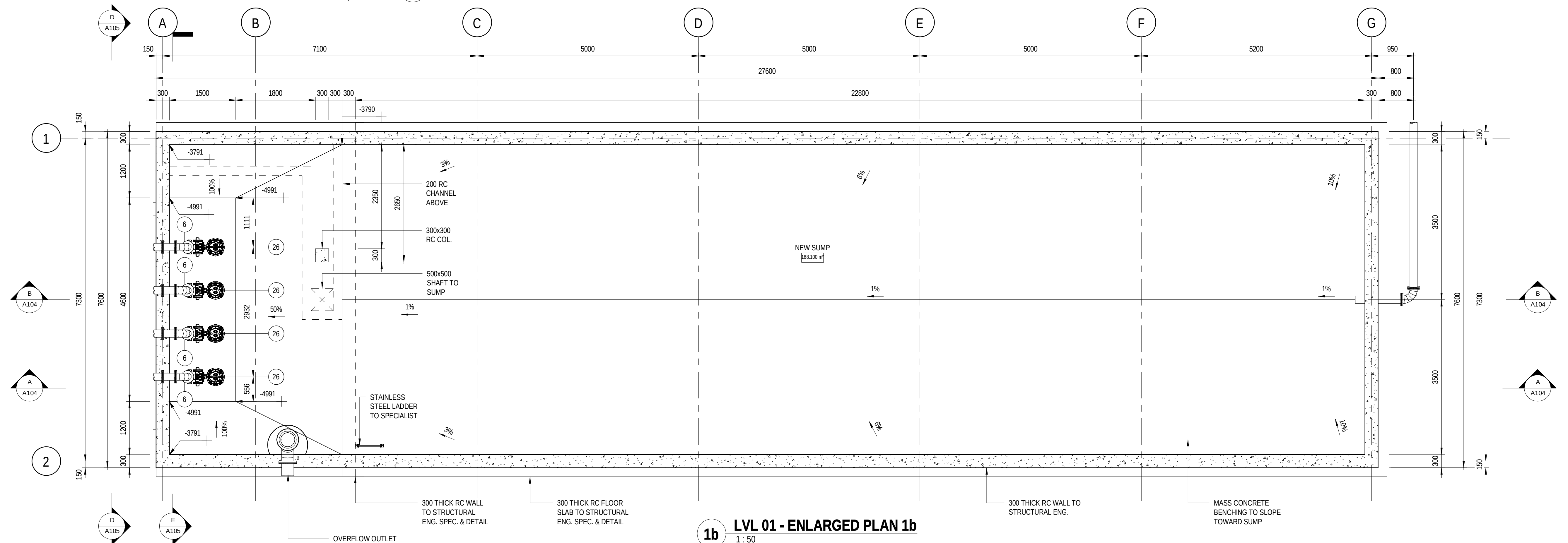
NOTE:

- DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
- DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.



1 **KEY PLAN LVL 01**
1:150

1a **LVL 01 - ENLARGED PLAN 1a**
1 : 50



1b **LVL 01 - ENLARGED PLAN 1b**
1 : 50

PRELIMINARY

GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION PUMPSTATION 1 ADDITIONS & ALTERATIONS - LVL 01 PLAN SECTIONS
--

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
2 1			-	-	DRAFTER	G. MAREDI
			-	-	DRAFTING CHECK	G. WHALLEY
			-	-	DESIGNER	S. FAUSTINO
			-	-	DESIGN CHECK	G. WHALLEY
			-	-	PROJECT MANAGER	T.CRONJE
			-	-	PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED

ENGINEER:

PR ENG NR:

SIGNATURE:

SCALES AT AN A1 SIZE DRAWING
 SCALE 1:1 0.01 0 0.01 0.02 0.03 0.04 0.05
 SCALE 1:50 0.5 0 1 2
 SCALE 1:100 1 0 1 2 3 4 5

DESIGNER

 **SMEC**
South Africa

Member of the Surbana Jurong Group

 **SABS**
ISO 9001

CLIENT



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THE CITY FOR ALL REASONS

PROJECT NO. C1924	PHASE	DRAWING NUMBER A101	REVISION
----------------------	-------	------------------------	----------

150 mm ON ORIGINAL

AL

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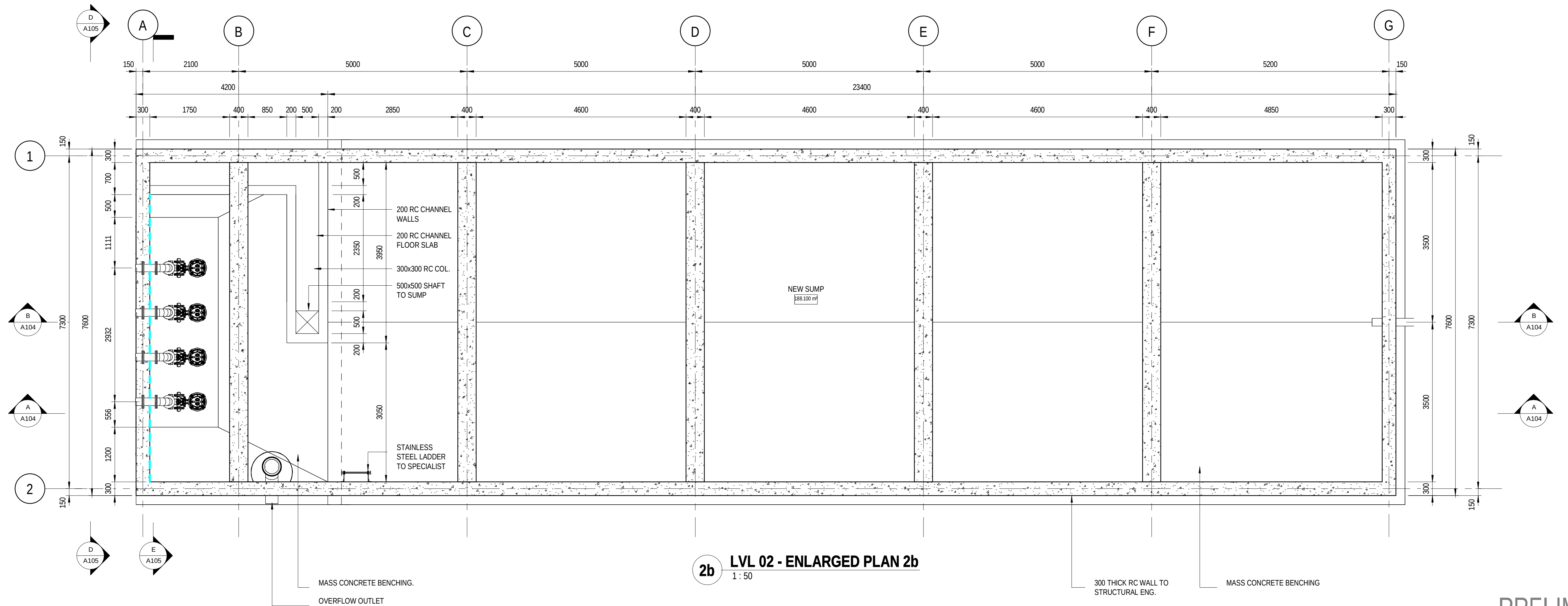
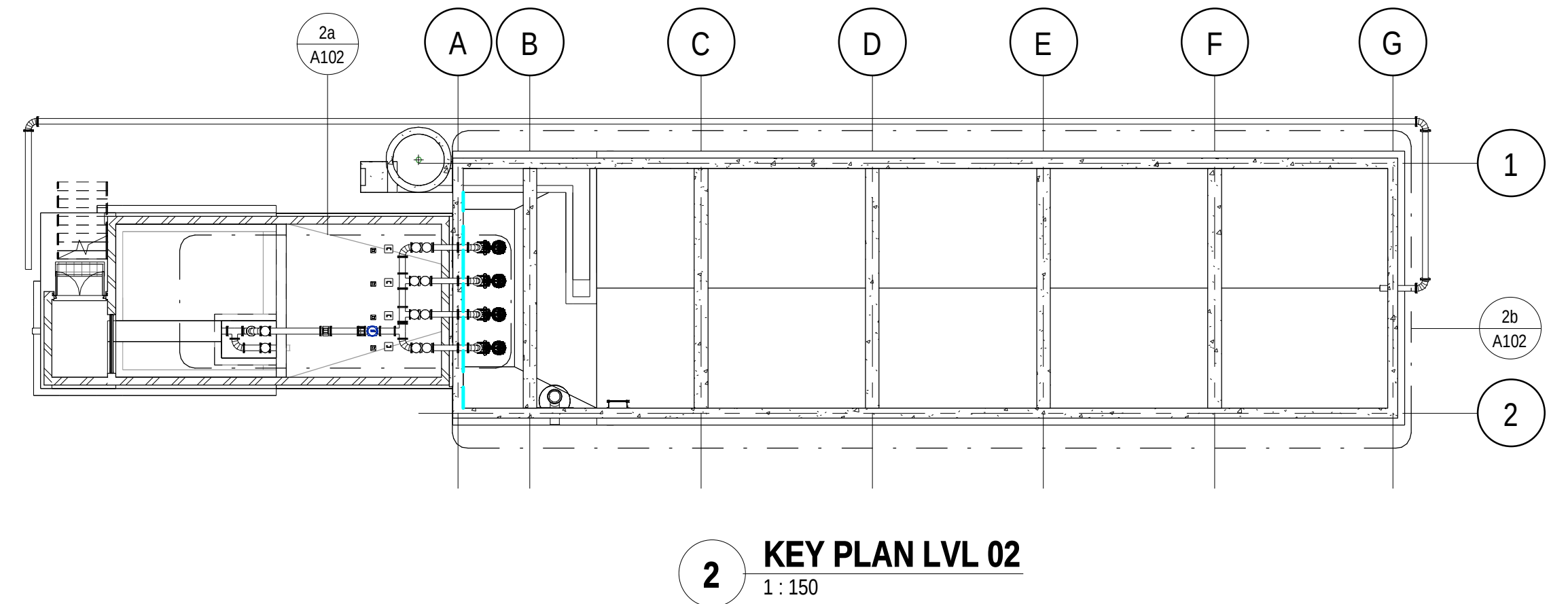
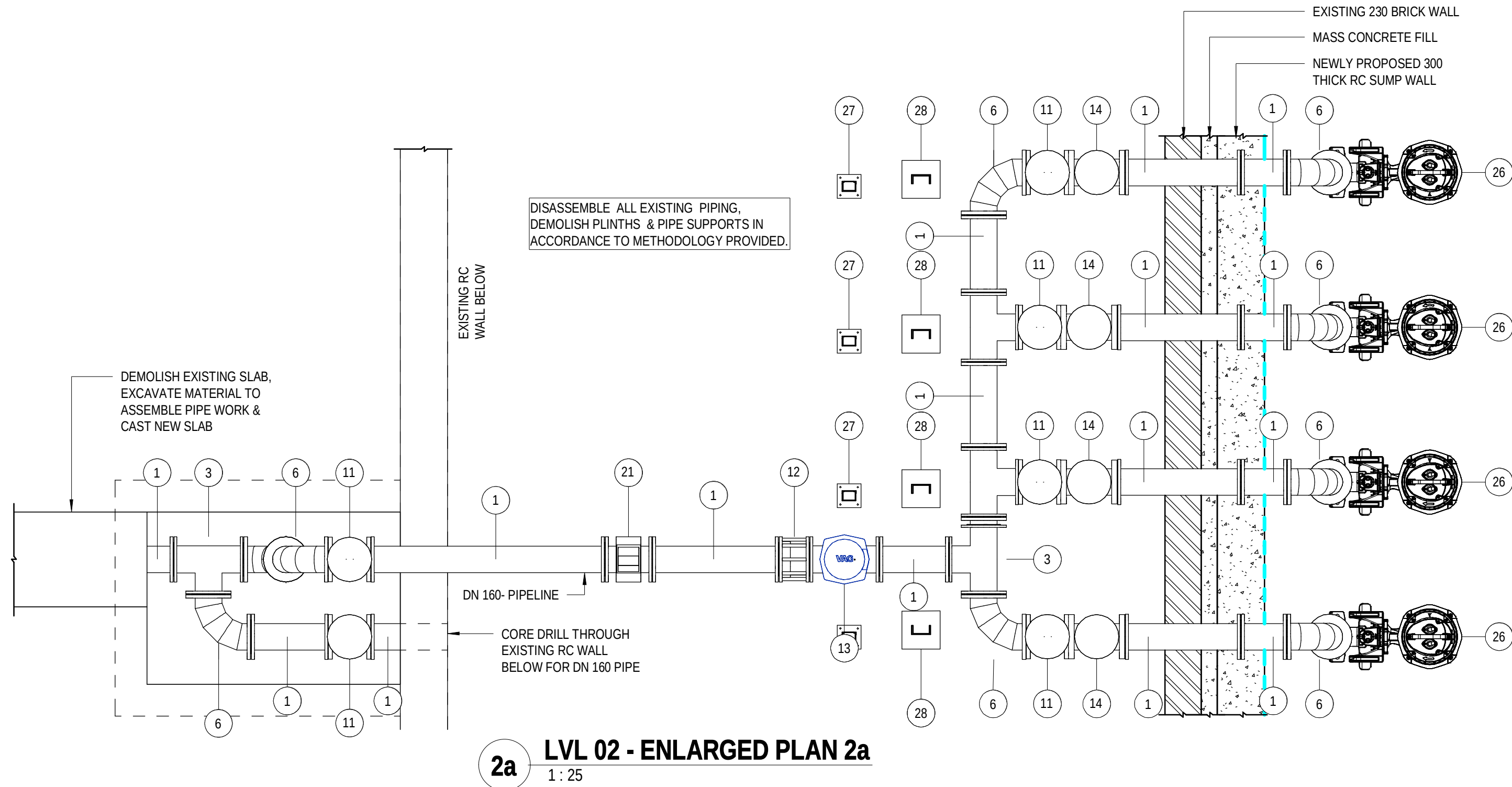
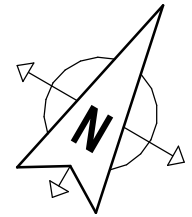
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2024/07/19 15:20:16

PLOT DATE TIME

NOTE:

- DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
- DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.



PRELIMINARY

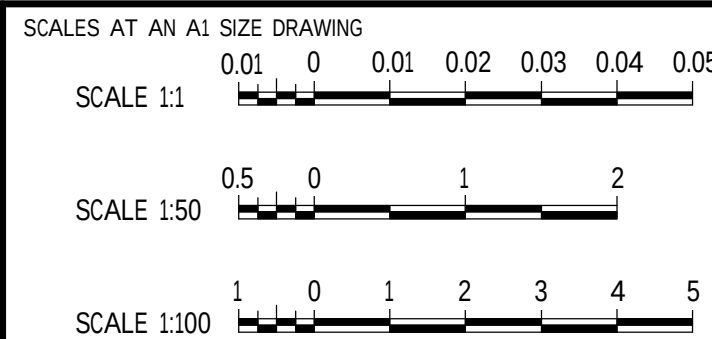
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2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
			-	-	DESIGNER	S. FAUSTINO
			-	-	DESIGN CHECK	G. WHALLEY
			-	-	PROJECT MANAGER	T.CRONJE
			-	-	PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED

ENGINEER:

PR ENG NR:

SIGNATURE:



GEORGE MUNICIPALITY			
HEROLD'S BAY PUMP STATION			
PUMPSTATION 1 ADDITIONS & ALTERATIONS - LEVEL 02			
PLAN SECTIONS			
PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
C1924		A102	

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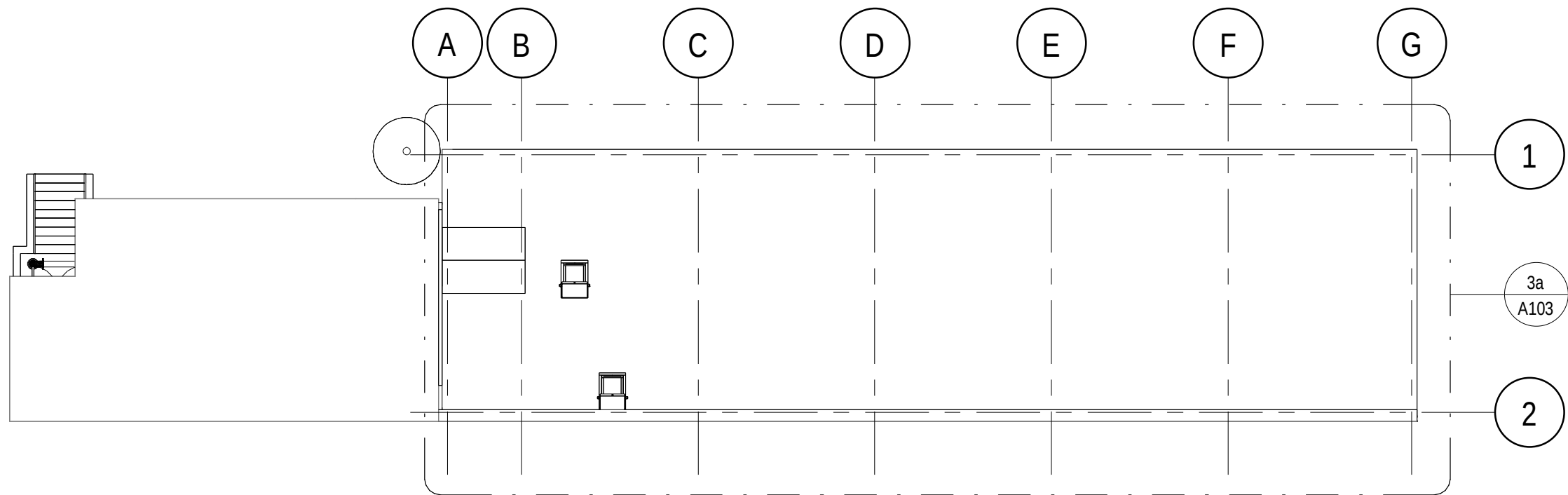
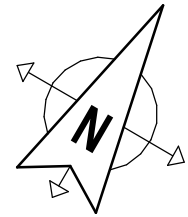
AL

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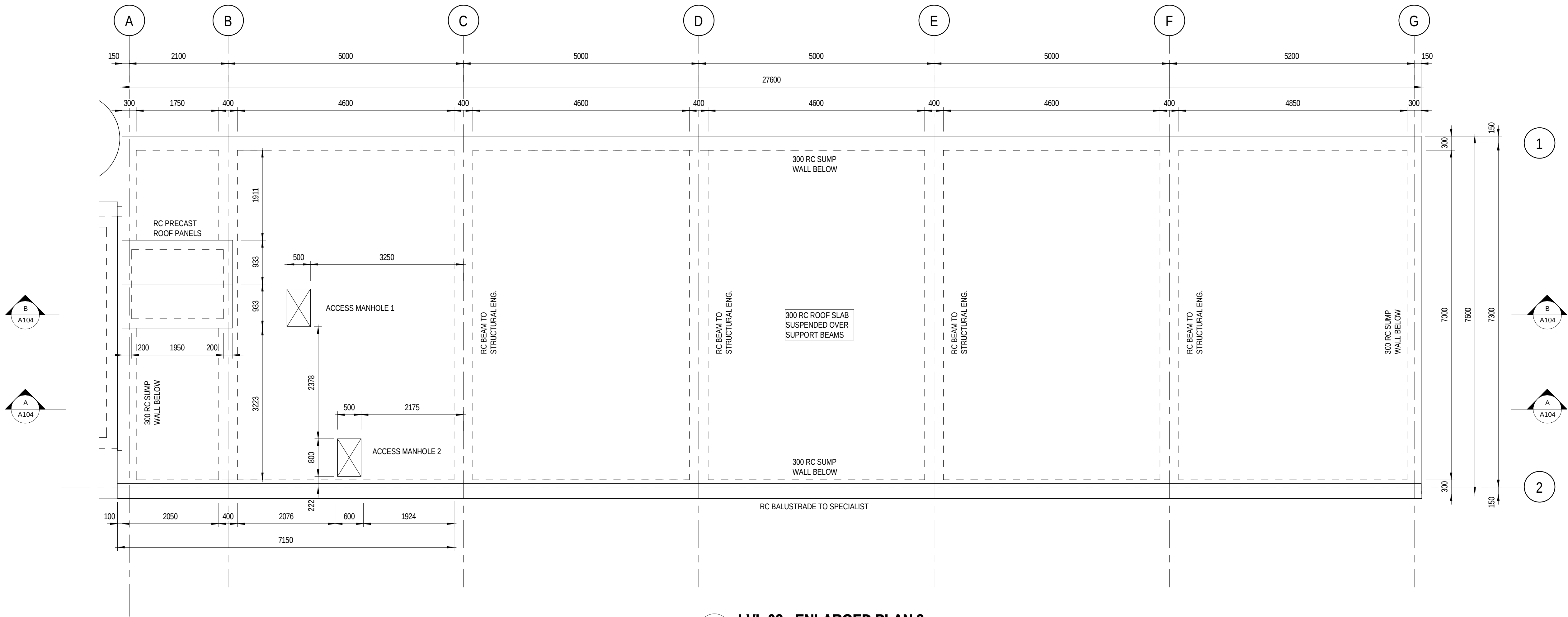
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PLOT DATE TIME
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NOTE:
• DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
• DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.



3 KEYPLAN LVL 03
1:150



3a LVL 03 - ENLARGED PLAN 3a
1:50

PRELIMINARY

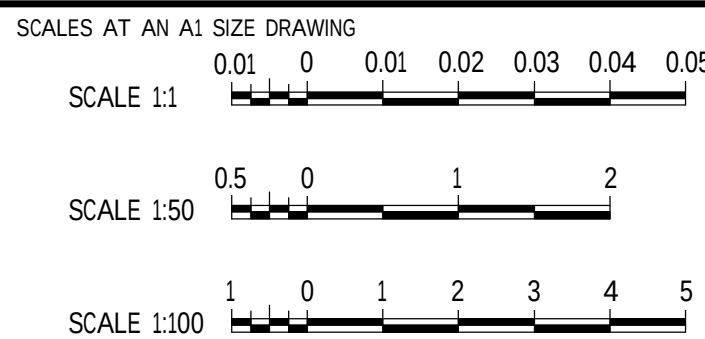
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2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
					DESIGNER	S. FAUSTINO
					DESIGN CHECK	G. WHALLEY
					PROJECT MANAGER	T.CRONJE
					PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED

ENGINEER:

PR ENG NR:

SIGNATURE:



GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION PUMPSTATION 1 ADDITIONS & ALTERATIONS - LEVEL 03 PLAN SECTION			
PROJECT NO. C1924	PHASE	DRAWING NUMBER A103	REVISION

150 mm ON ORIGINAL

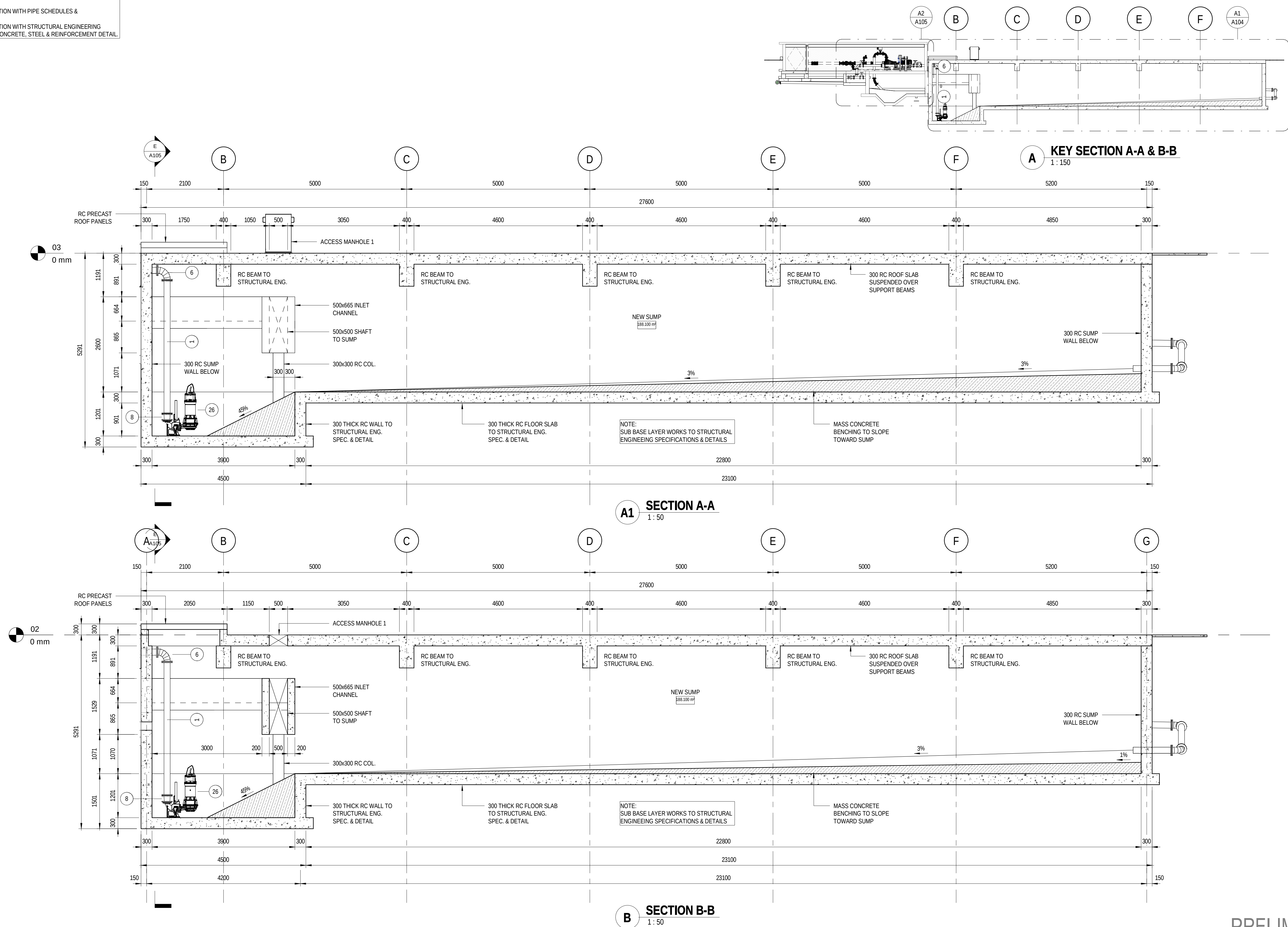
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DRAWING FILE LOCATION / NAME

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PLOT DATE TIME

NOTE:
DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.



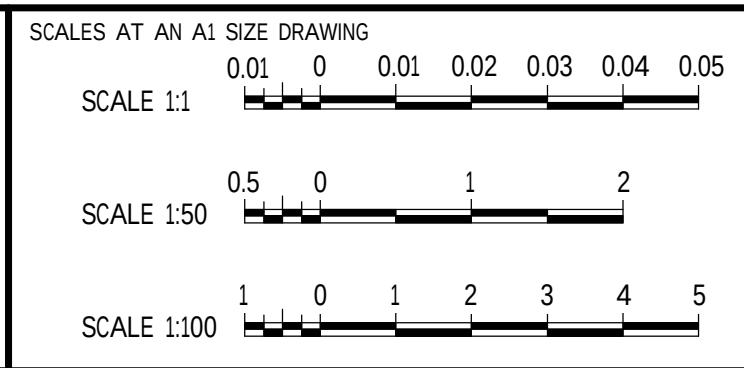
REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
			-	-	DESIGNER	S. FAUSTINO
			-	-	DESIGN CHECK	G. WHALLEY
			-	-	PROJECT MANAGER	T.CRONJE
			-	-	PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED

ENGINEER:

PR ENG NR:

SIGNATURE:



GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION PUMPSTATION 1 ADDITIONS & ALTERATIONS - SECTIONS A-A & B-B			
PROJECT NO. C1924	PHASE	DRAWING NUMBER A104	REVISION

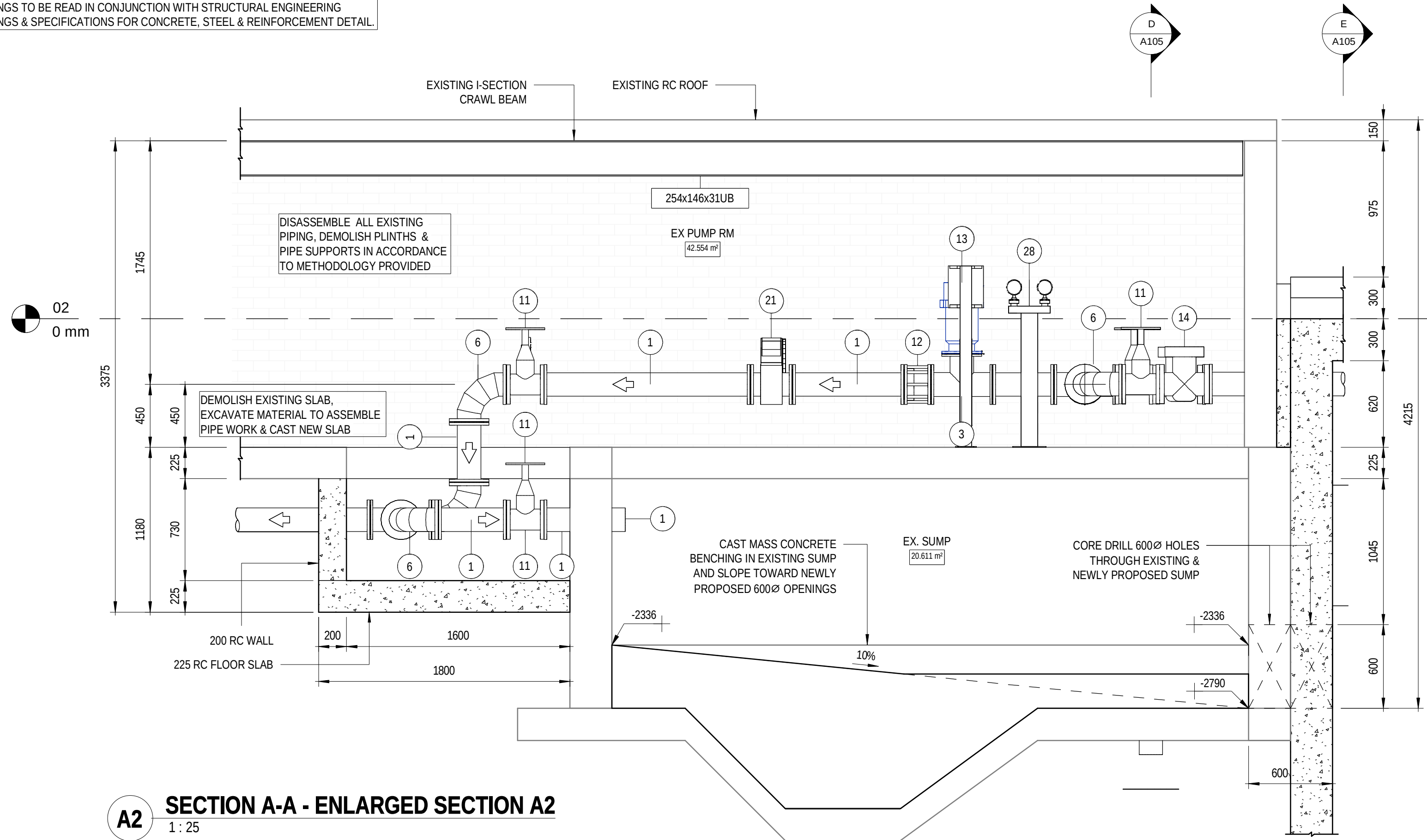
PLOT DATE TIME
2024/07/19 15:21:03

DRAWING FILE LOCATION / NAME

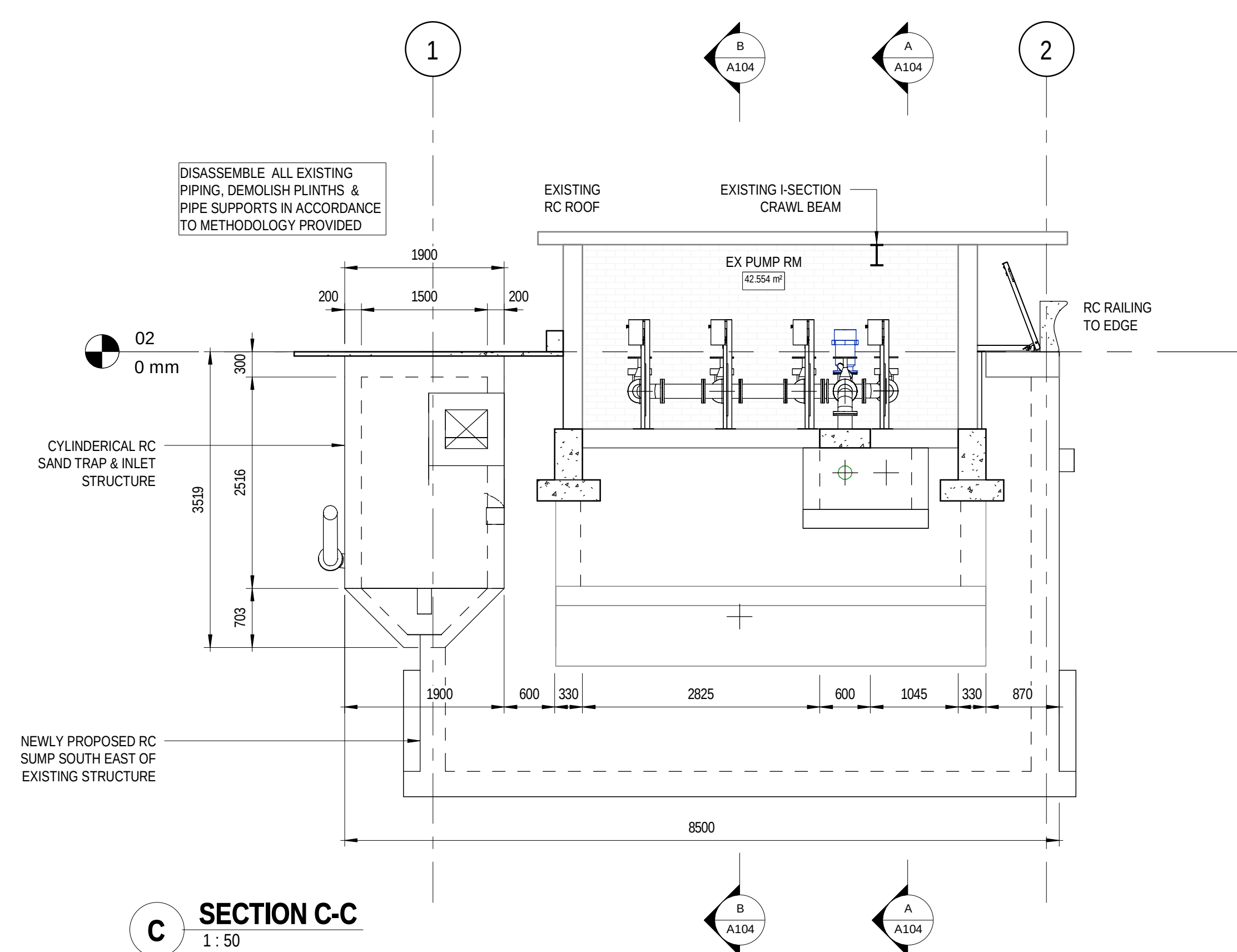
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0

150 mm ON ORIGINAL

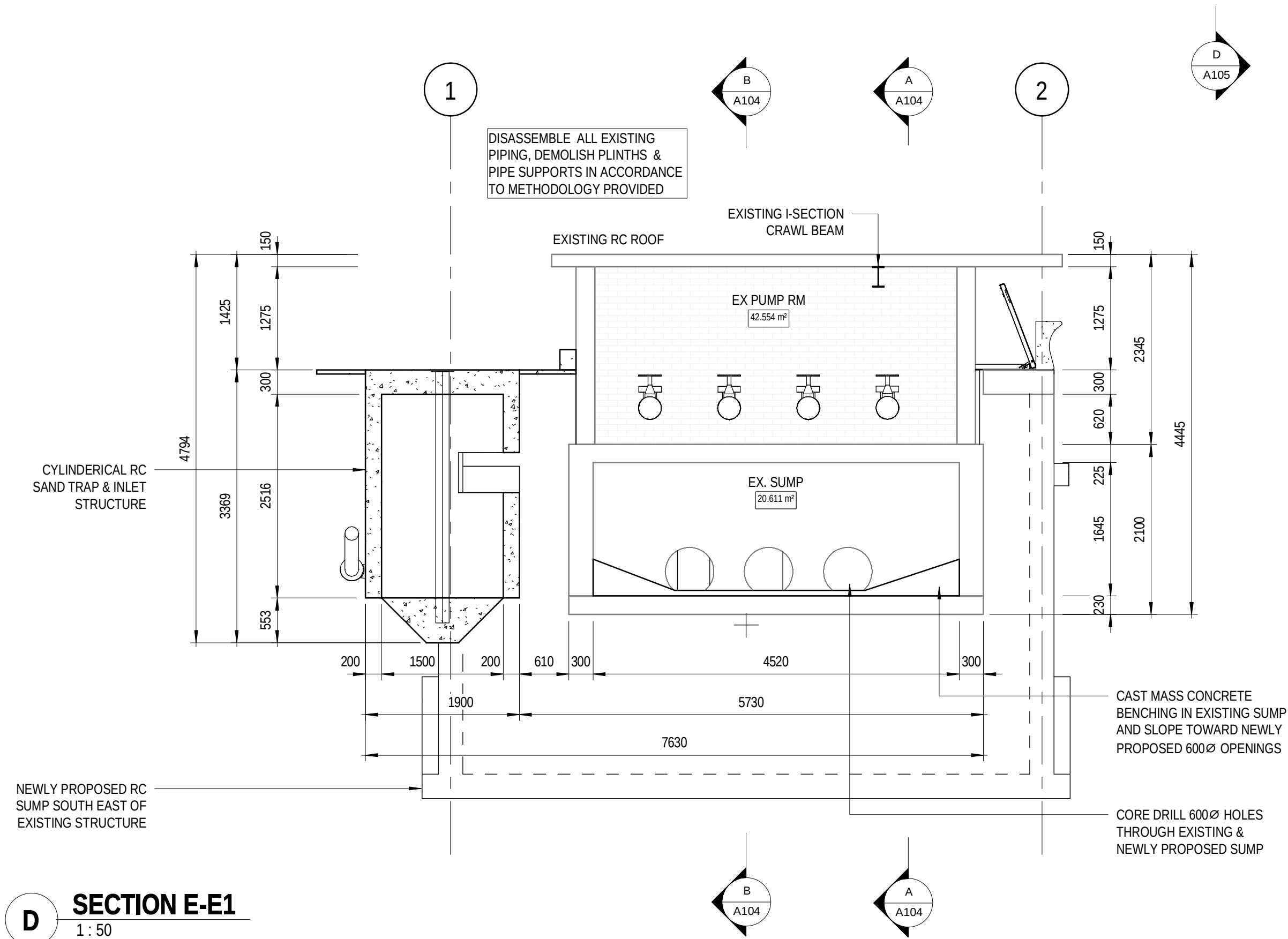
NOTE:
DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.



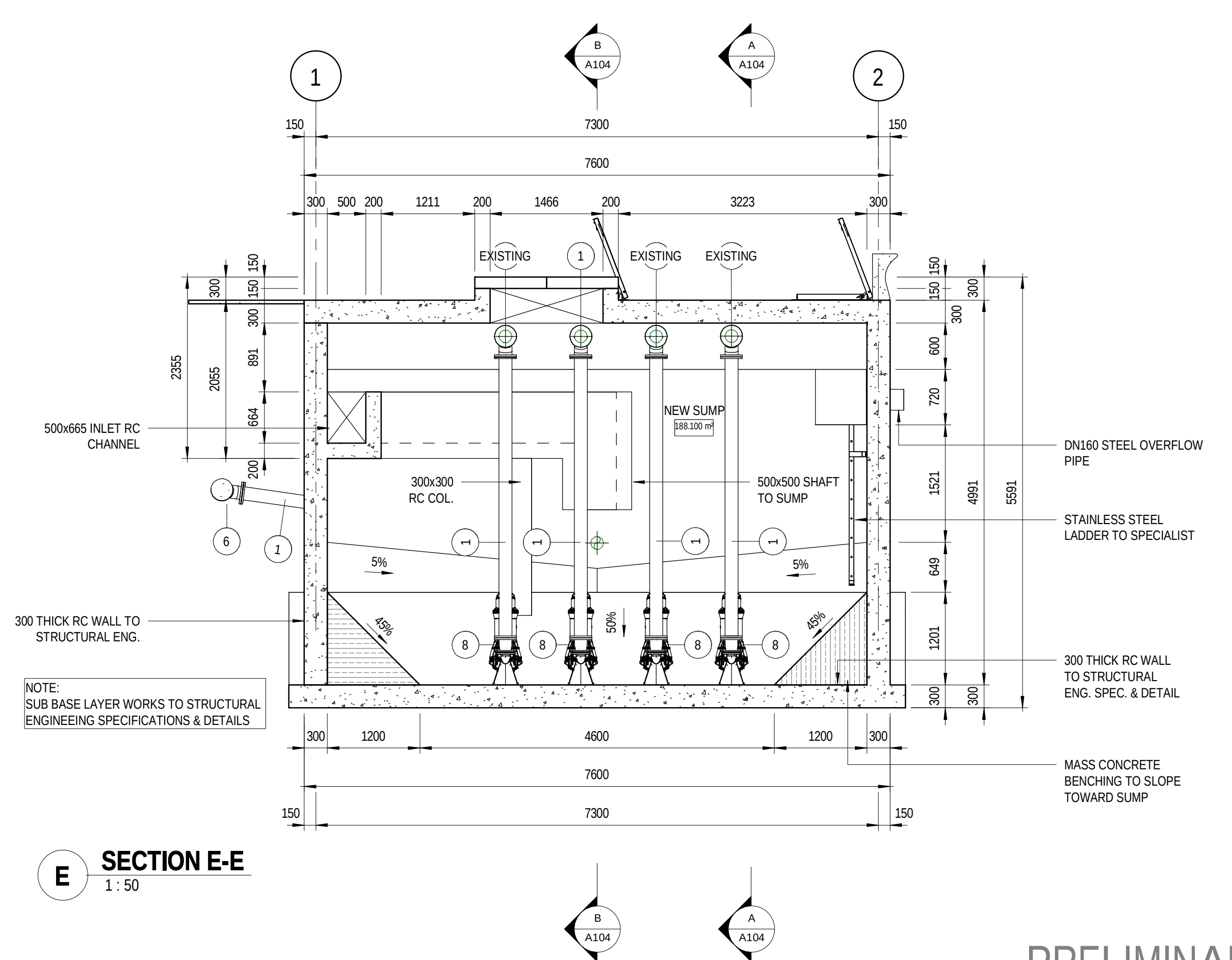
A2 SECTION A-A - ENLARGED SECTION A2
1:25



C SECTION C-C
1:50



D SECTION E-E1
1:50

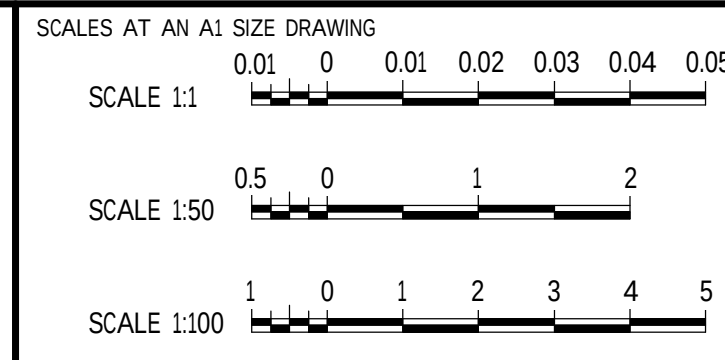


E SECTION E-E
1:50

PRELIMINARY

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
			-	-	DESIGNER	S. FAUSTINO
			-	-	DESIGN CHECK	G. WHALLEY
			-	-	PROJECT MANAGER	T.CRONJE
			-	-	PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED
ENGINEER:
PR ENG NR:
SIGNATURE:



DESIGNER
SMEC South Africa
Member of the Surbana Jurong Group
SABS ISO 9001

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GEORGE
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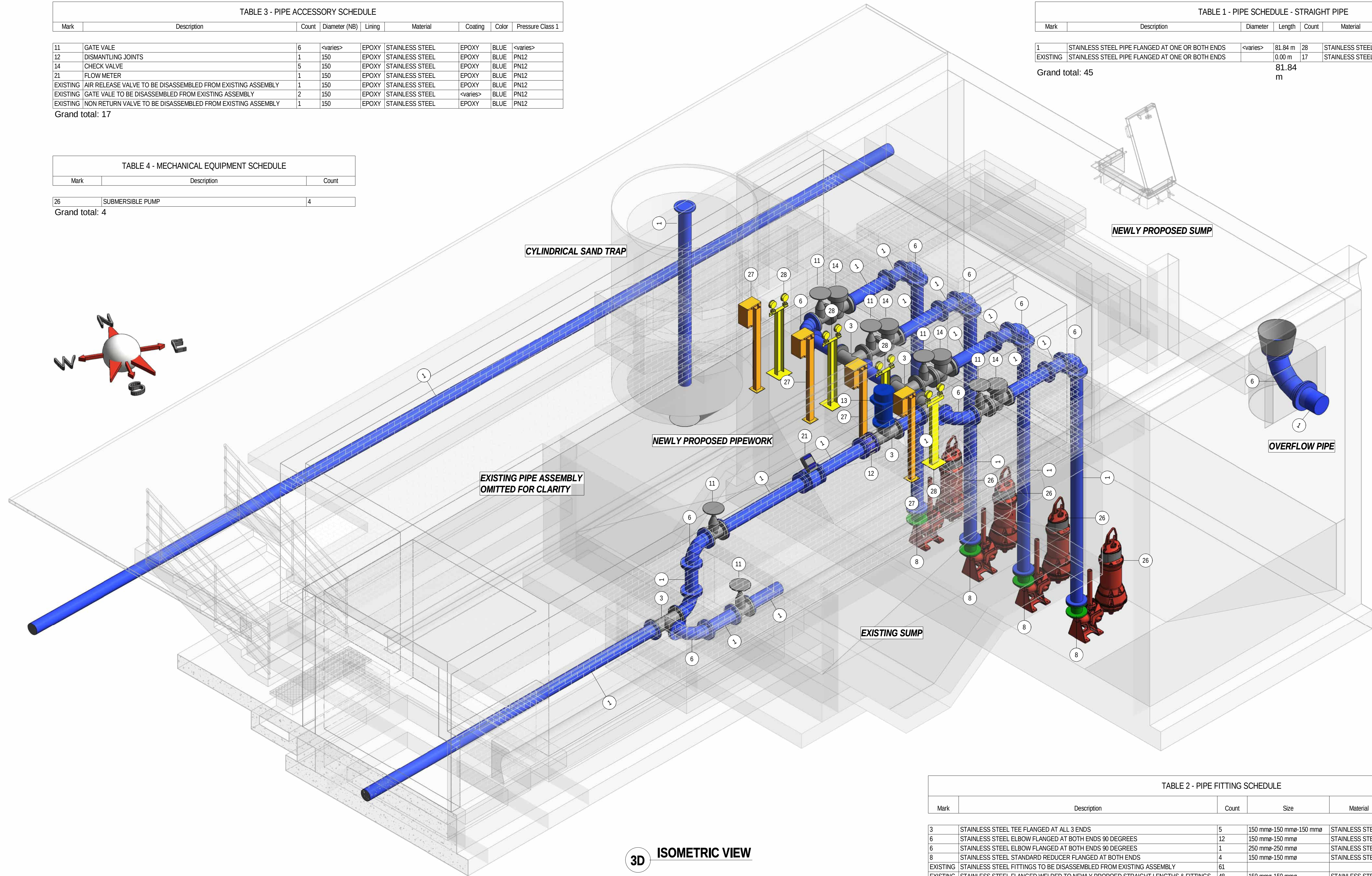
GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION PUMPSTATION 1 ADDITIONS & ALTERATIONS - SECTIONS C-C, D-D & E-E			
PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
C1924		A105	

NOTE:
• DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
• DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.

TABLE 3 - PIPE ACCESSORY SCHEDULE								
Mark	Description	Count	Diameter (NB)	Lining	Material	Coating	Color	Pressure Class 1
11	GATE VALE	6	<varies>	EPOXY	STAINLESS STEEL	EPOXY	BLUE	<varies>
12	DISMANTLING JOINTS	1	150	EPOXY	STAINLESS STEEL	EPOXY	BLUE	PN12
14	CHECK VALVE	5	150	EPOXY	STAINLESS STEEL	EPOXY	BLUE	PN12
21	FLOW METER	1	150	EPOXY	STAINLESS STEEL	EPOXY	BLUE	PN12
EXISTING	AIR RELEASE VALVE TO BE DISASSEMBLED FROM EXISTING ASSEMBLY	1	150	EPOXY	STAINLESS STEEL	EPOXY	BLUE	PN12
EXISTING	GATE VALE TO BE DISASSEMBLED FROM EXISTING ASSEMBLY	2	150	EPOXY	STAINLESS STEEL	<varies>	BLUE	PN12
EXISTING	NON RETURN VALVE TO BE DISASSEMBLED FROM EXISTING ASSEMBLY	1	150	EPOXY	STAINLESS STEEL	EPOXY	BLUE	PN12
Grand total: 17								

TABLE 4 - MECHANICAL EQUIPMENT SCHEDULE		
Mark	Description	Count
26	SUBMERSIBLE PUMP	4
Grand total: 4		

TABLE 1 - PIPE SCHEDULE - STRAIGHT PIPE										
Mark	Description	Diameter	Length	Count	Material	Lining	Coating	Color	Pressure Class 1	
1	STAINLESS STEEL PIPE FLANGED AT ONE OR BOTH ENDS	<varies>	81.84 m	28	STAINLESS STEEL	EPOXY	EPOXY	BLUE	PN12	
EXISTING	STAINLESS STEEL PIPE FLANGED AT ONE OR BOTH ENDS		0.00 m	17	STAINLESS STEEL	EPOXY	EPOXY	BLUE	PN12	
Grand total: 45			81.84 m							

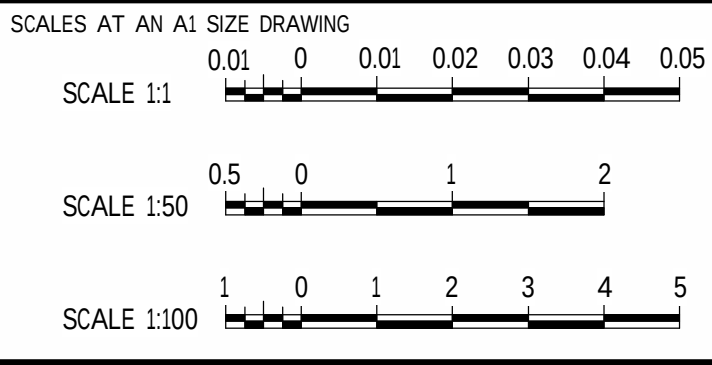


3D ISOMETRIC VIEW

TABLE 2 - PIPE FITTING SCHEDULE									
Mark	Description	Count	Size	Material	Lining	Coating	Color	Pressure Class 1	
3	STAINLESS STEEL TEE FLANGED AT ALL 3 ENDS	5	150 mmø-150 mmø-150 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE	<varies>	
6	STAINLESS STEEL ELBOW FLANGED AT BOTH ENDS 90 DEGREES	12	150 mmø-150 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE	<varies>	
6	STAINLESS STEEL ELBOW FLANGED AT BOTH ENDS 90 DEGREES	1	250 mmø-250 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE	PN12	
8	STAINLESS STEEL STANDARD REDUCER FLANGED AT BOTH ENDS	4	150 mmø-150 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE	PN12	
EXISTING	STAINLESS STEEL FITTINGS TO BE DISASSEMBLED FROM EXISTING ASSEMBLY	61							
EXISTING	STAINLESS STEEL FLANGED WELDED TO NEWLY PROPOED STRAIGHT LENGTHS & FITTINGS	48	150 mmø-150 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE	<varies>	
EXISTING	STAINLESS STEEL FLANGED WELDED TO NEWLY PROPOED STRAIGHT LENGTHS & FITTINGS	1	250 mmø-250 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE	PN12	
Grand total: 132									

PRELIMINARY

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME	DRAWING APPROVED	DESIGNER	CLIENT	GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION PUMPSTATION 1 ADDITIONS & ALTERATIONS - ISOMETRIC VIEW			
2			-	-	DRAFTER	G. MAREDI	ENGINEER:			PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
1			-	-	DRAFTING CHECK	G. WHALLEY	PR ENG NR:			C1924		A106	
			-	-	DESIGNER	S. FAUSTINO	SIGNATURE:						
					DESIGN CHECK	G. WHALLEY							
					PROJECT MANAGER	T.CRONJE							
					PROJECT DIRECTOR	T.CRONJE							



Annexure B **PS 4 Drawings**

150 mm ON ORIGINAL

A1

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DRAWING FILE LOCATION / NAME

PLOT DATE TIME 2024/08/12 09:58:50

NOTE:

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NEWLY PROPOSED SITE BOUNDARY COORDINATES		
POINT	X COORDINATES	Y COORDINATES
A	-56214.0864	-3769681.4297
B	-56206.9553	-3769693.9078
C	-56197.2560	-3769690.3610
D	-56183.8550	-3769683.4060
E	-56183.9561	-3769680.7640
F	-56185.7544	-3769677.6174
G	-56181.4561	-3769675.1057
H	-56187.1353	-3769665.0095

NOTE:

1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND. REFER ANY DISCREPANCIES TO THE ENGINEER.



PRELIMINARY

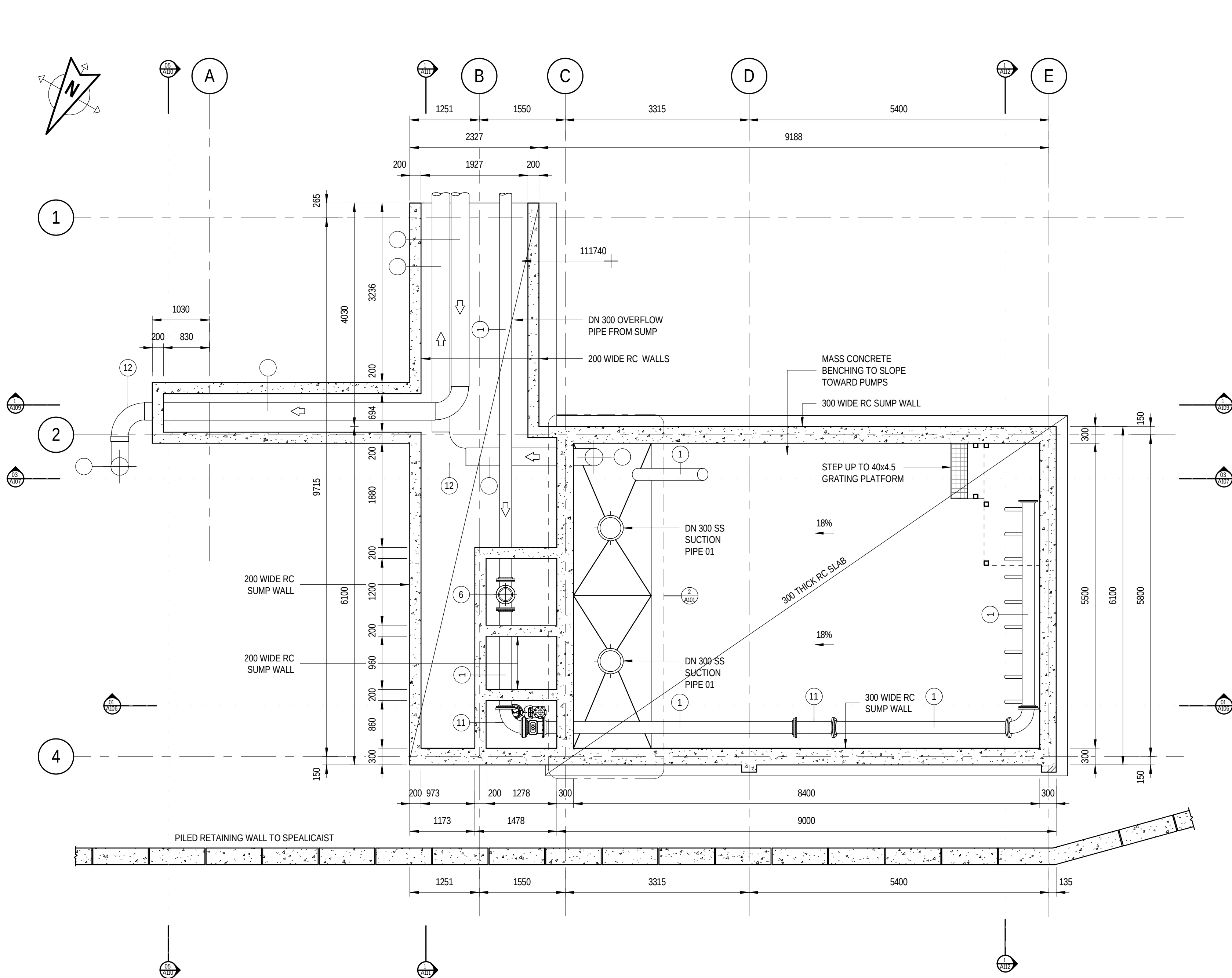
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2 1			-	-	DRAFTER	G. MAREDI	ENGINEER:	 Member of the Surbana Jurong Group			PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
			-	-	DRAFTING CHECK	G. WHALLEY	PR ENG NR:				C1924		A100	
					DESIGNER	S. FAUSTINO	SIGNATURE:							
					DESIGN CHECK	G. WHALLEY								
					PROJECT MANAGER	T. CRONJE								
					PROJECT DIRECTOR	T. CRONJE								

PLOT DATE TIME
2024/08/09 20:00:06

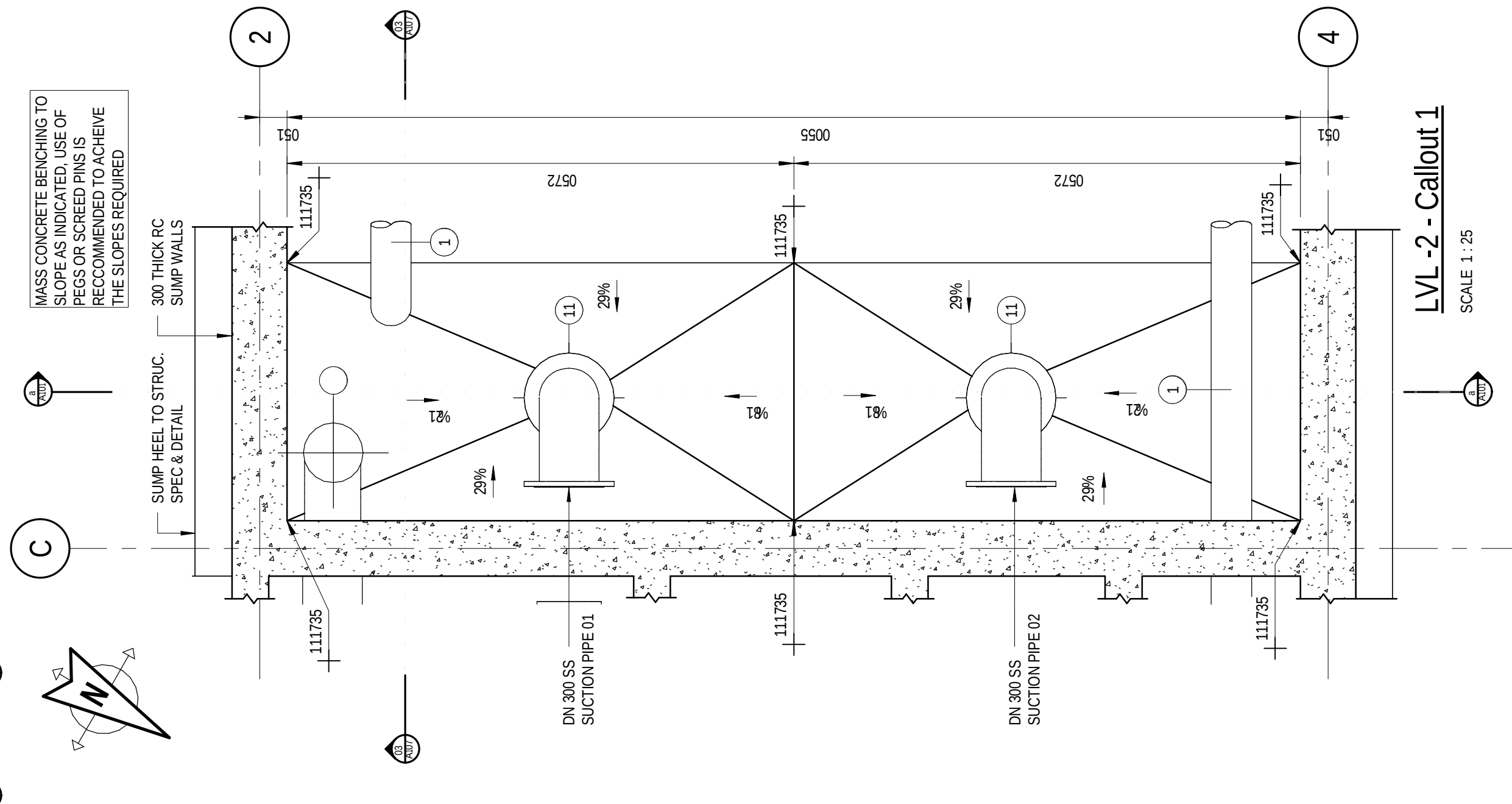
DRAWING FILE LOCATION / NAME

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NOTE:
DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.



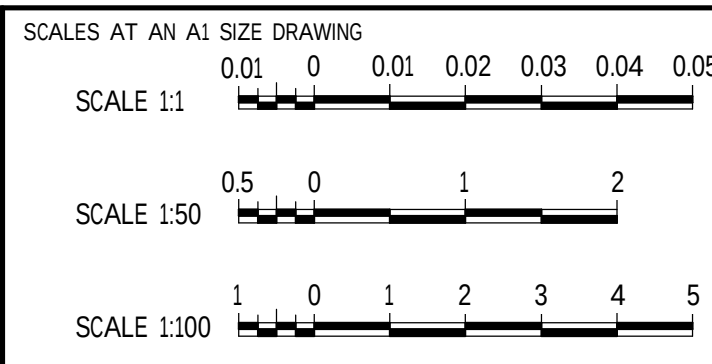
LVL-2
SCALE 1:50



LVL-2 SECTION a-a
SCALE 1:25

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
					DESIGNER	S. FAUSTINO
					DESIGN CHECK	G. WHALLEY
					PROJECT MANAGER	T.CRONJE
					PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED
ENGINEER:
PR ENG NR:
SIGNATURE:



GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION			
PLAN SECTION 1-1, & SUMP ENLARGED DETAILS			
PROJECT NO. C1924	PHASE	DRAWING NUMBER A101	REVISION

150 mm ON ORIGINAL

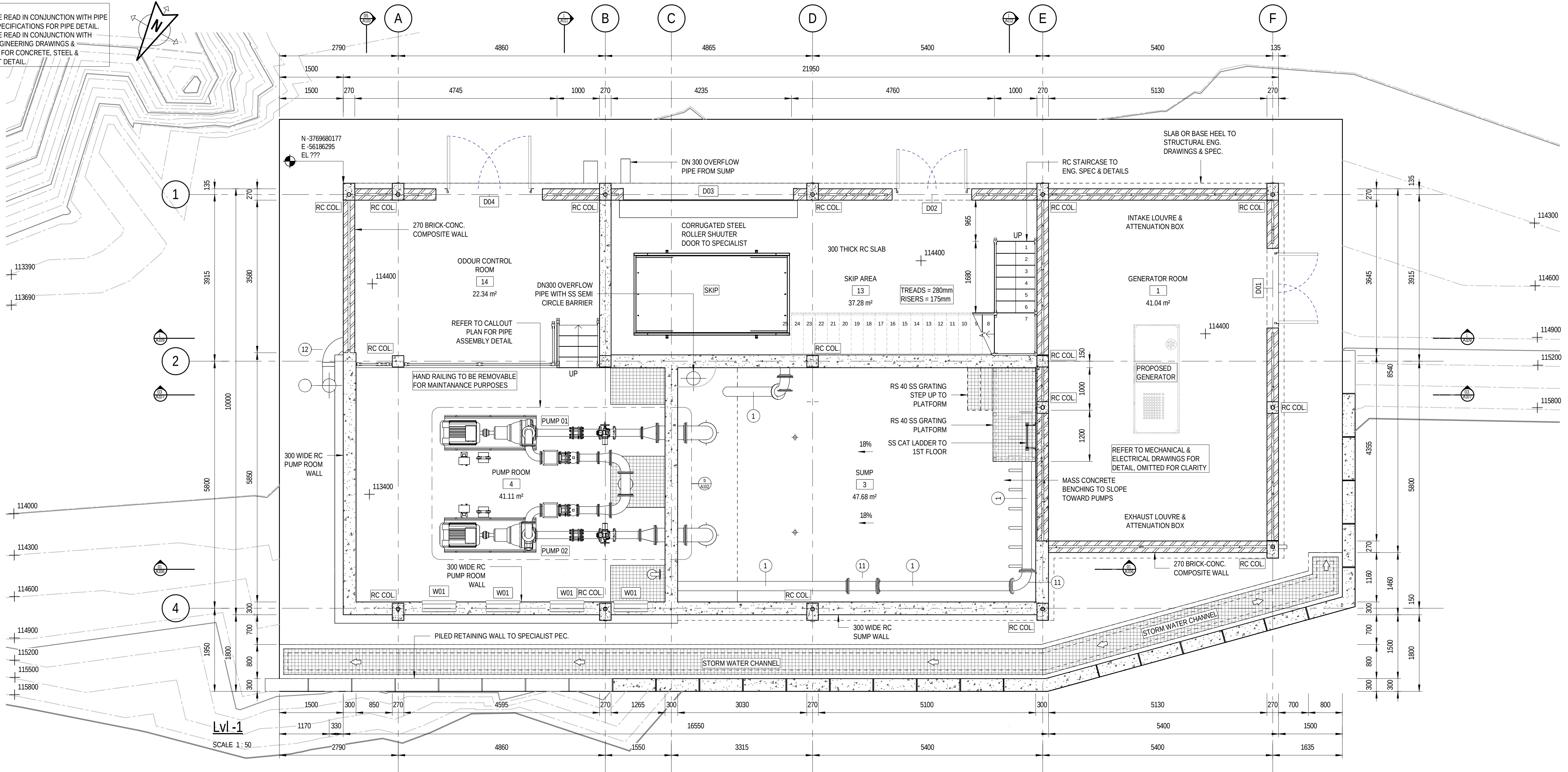
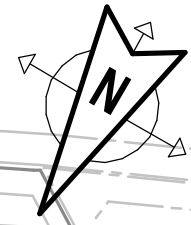
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DRAWING FILE LOCATION / NAME

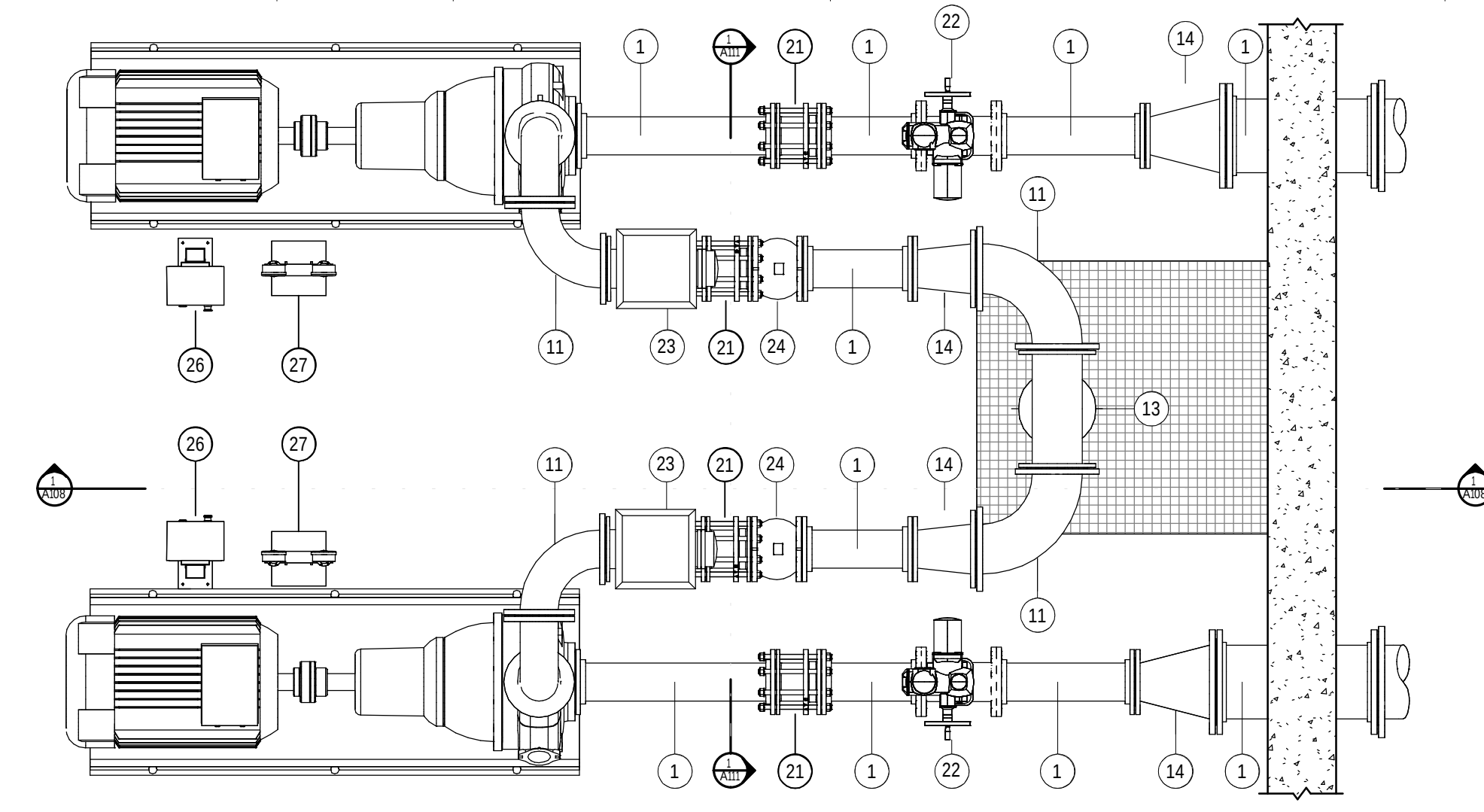
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NOTE:
• DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
• DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.



Lvl -1
SCALE 1:50

Lvl -1 - Callout 1
SCALE 1:25



PRELIMINARY

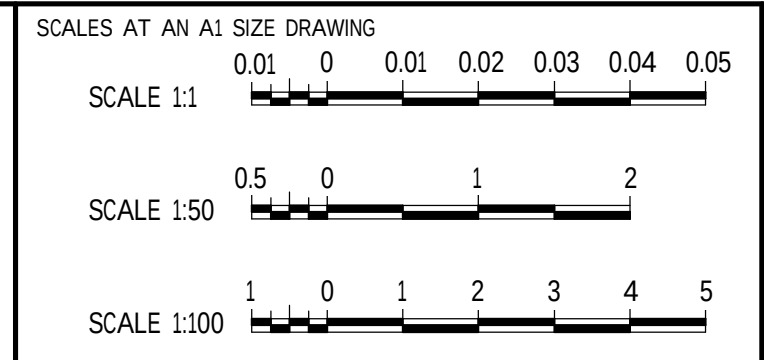
REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
					DESIGNER	S. FAUSTINO
					DESIGN CHECK	G. WHALLEY
					PROJECT MANAGER	T.CRONJE
					PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED

ENGINEER:

PR ENG NR:

SIGNATURE:



DESIGNER

SMEC South Africa
Member of the Surbana Jurong Group

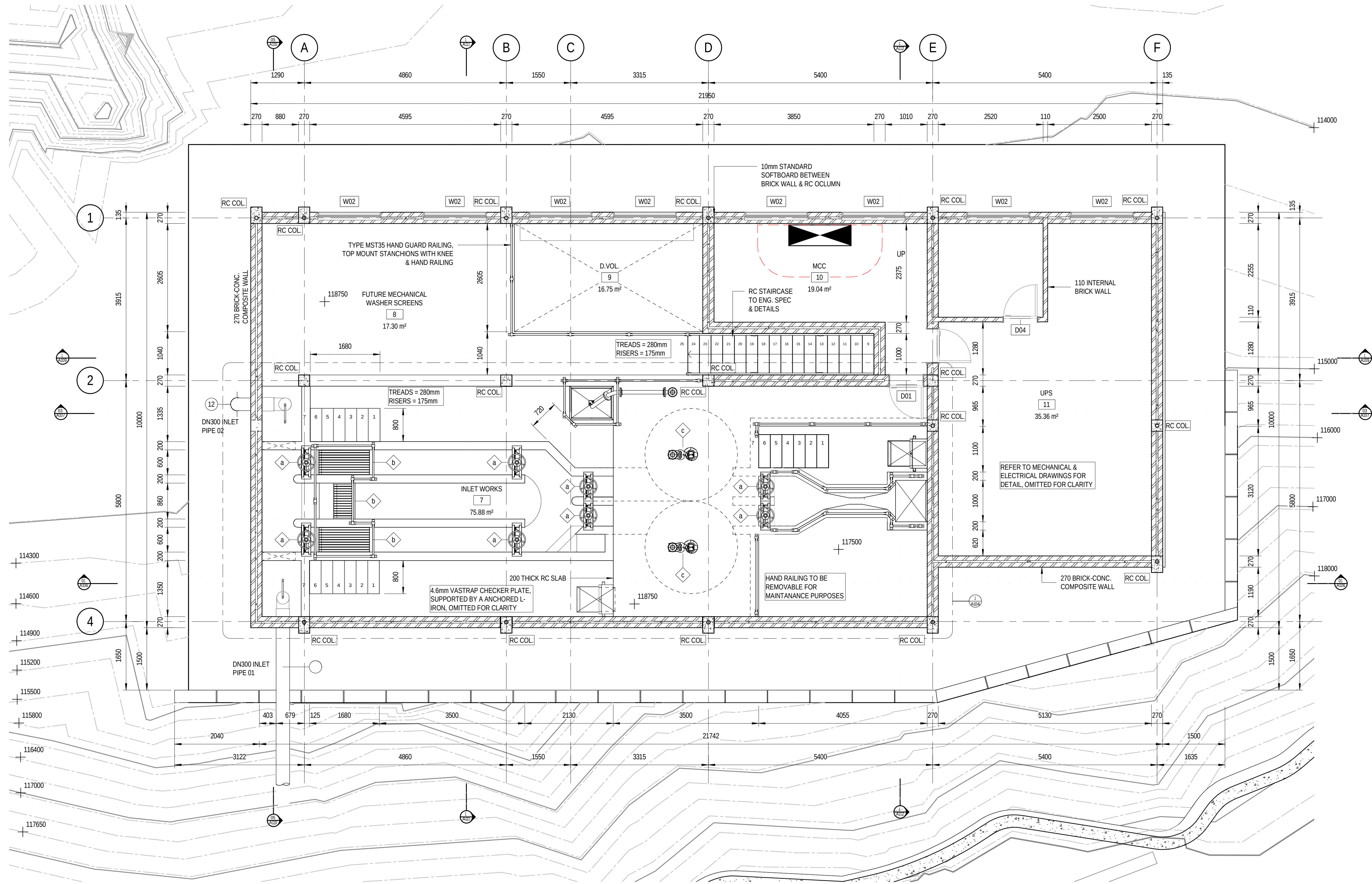
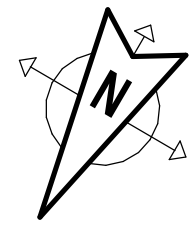
SABS ISO 9001

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GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION			
PLAN SECTION 2-2 & ENLARGED PUMPROOM PLAN			
PROJECT NO. C1924	PHASE	DRAWING NUMBER A102	REVISION

NOTE:
DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.



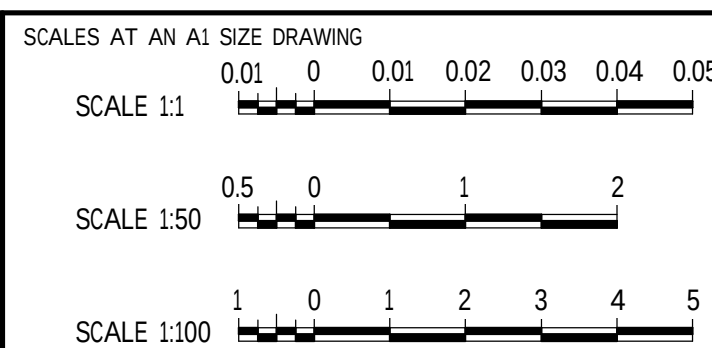
PRELIMINARY

GEORGE MUNICIPALITY
HEROLD'S BAY PUMP STATION

FIRST FLOOR PLAN

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
			-	-	DESIGNER	S. FAUSTINO
			-	-	DESIGN CHECK	G. WHALLEY
			-	-	PROJECT MANAGER	T.CRONJE
			-	-	PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED
ENGINEER:
PR ENG NR:
SIGNATURE:



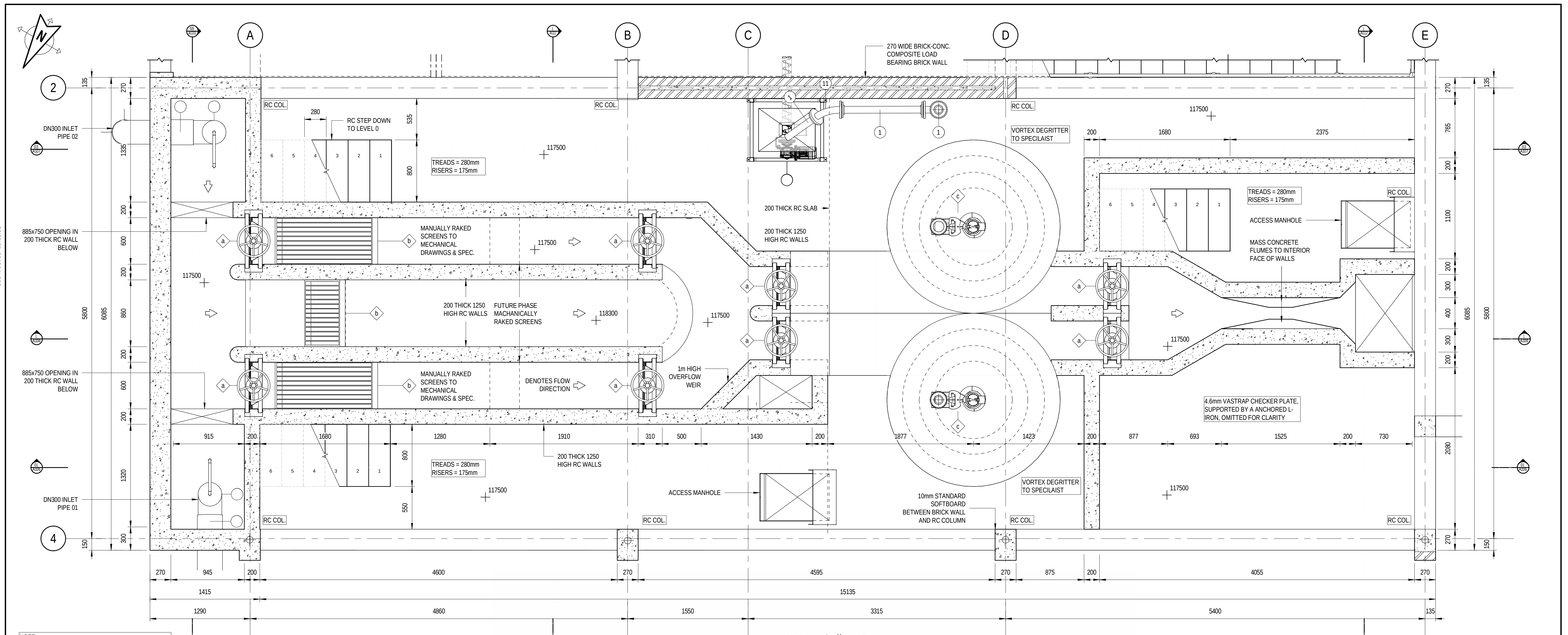
PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
C1924		A103	

PLOT DATE
2024/08/09 20:00:53

DRAWING FILE LOCATION / NAME

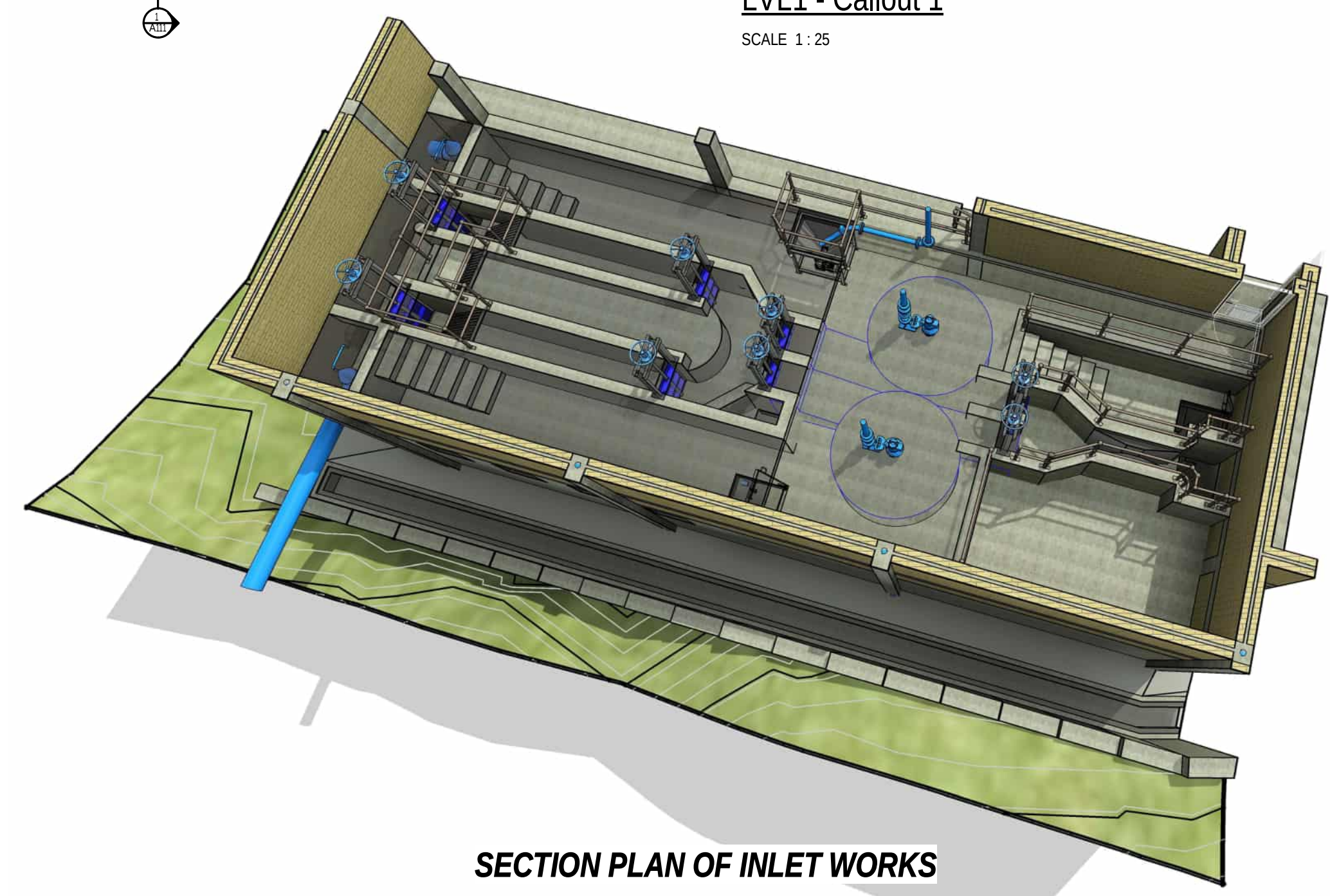
150 mm ON ORIGINAL

AL



NOTE:
• DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
• DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.

LVL1 - Callout 1
SCALE 1 : 25



SECTION PLAN OF INLET WORKS

PRELIMINARY

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME	DRAWING APPROVED	SCALES AT AN A1 SIZE DRAWING	DESIGNER	CLIENT	PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
2			-	-	DRAFTER	G. MAREDI	ENGINEER:	SCALE 1:1	SMC	GEORGE	C1924		A104	
1			-	-	DRAFTING CHECK	G. WHALLEY	PR ENG NR:	SCALE 1:50	South Africa	THE CITY FOR ALL REASONS				
					DESIGNER	S. FAUSTINO	SIGNATURE:	SCALE 1:100	Member of the Surbana Jurong Group					
					DESIGN CHECK	G. WHALLEY								
					PROJECT MANAGER	T.CRONJE								
					PROJECT DIRECTOR	T.CRONJE								

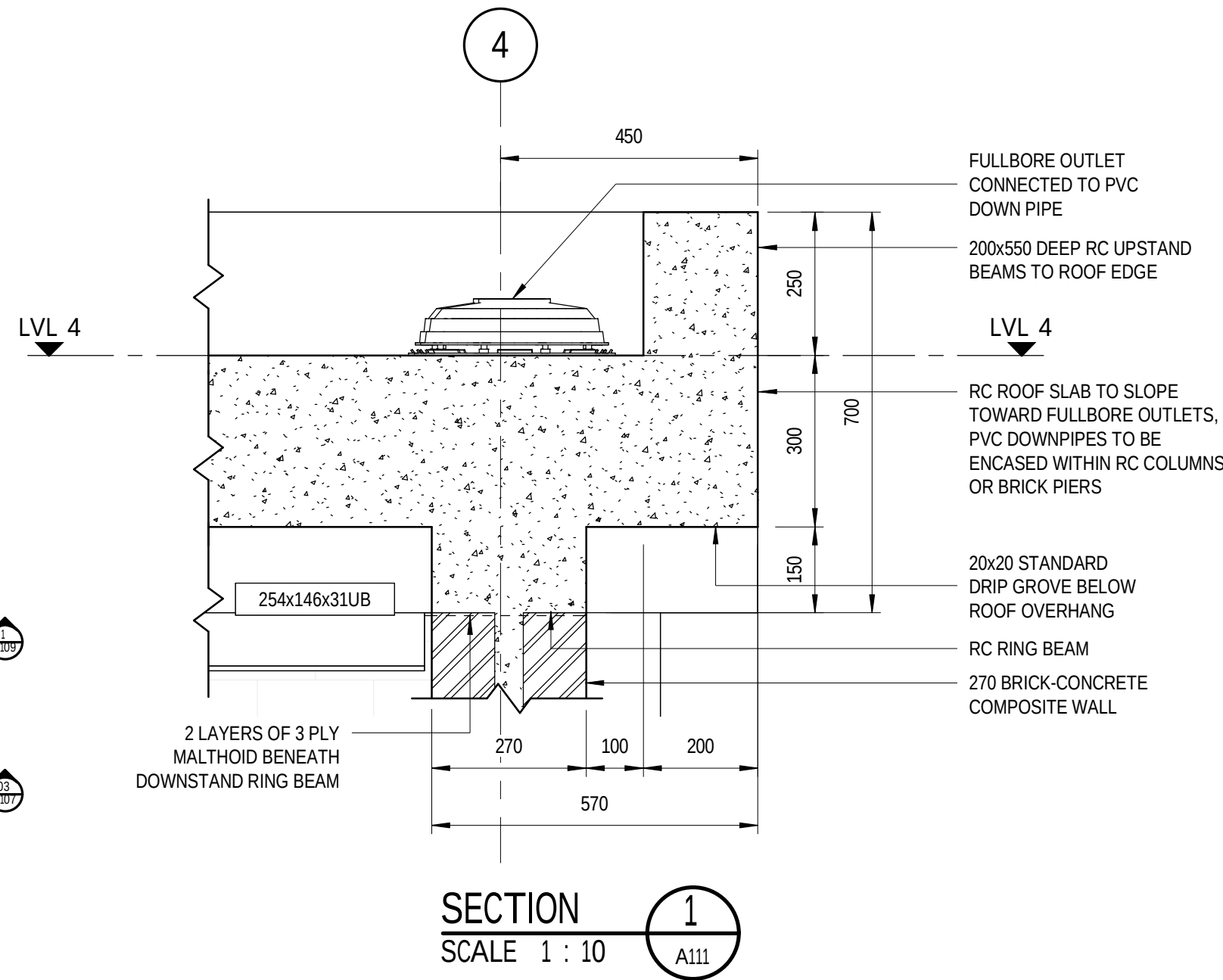
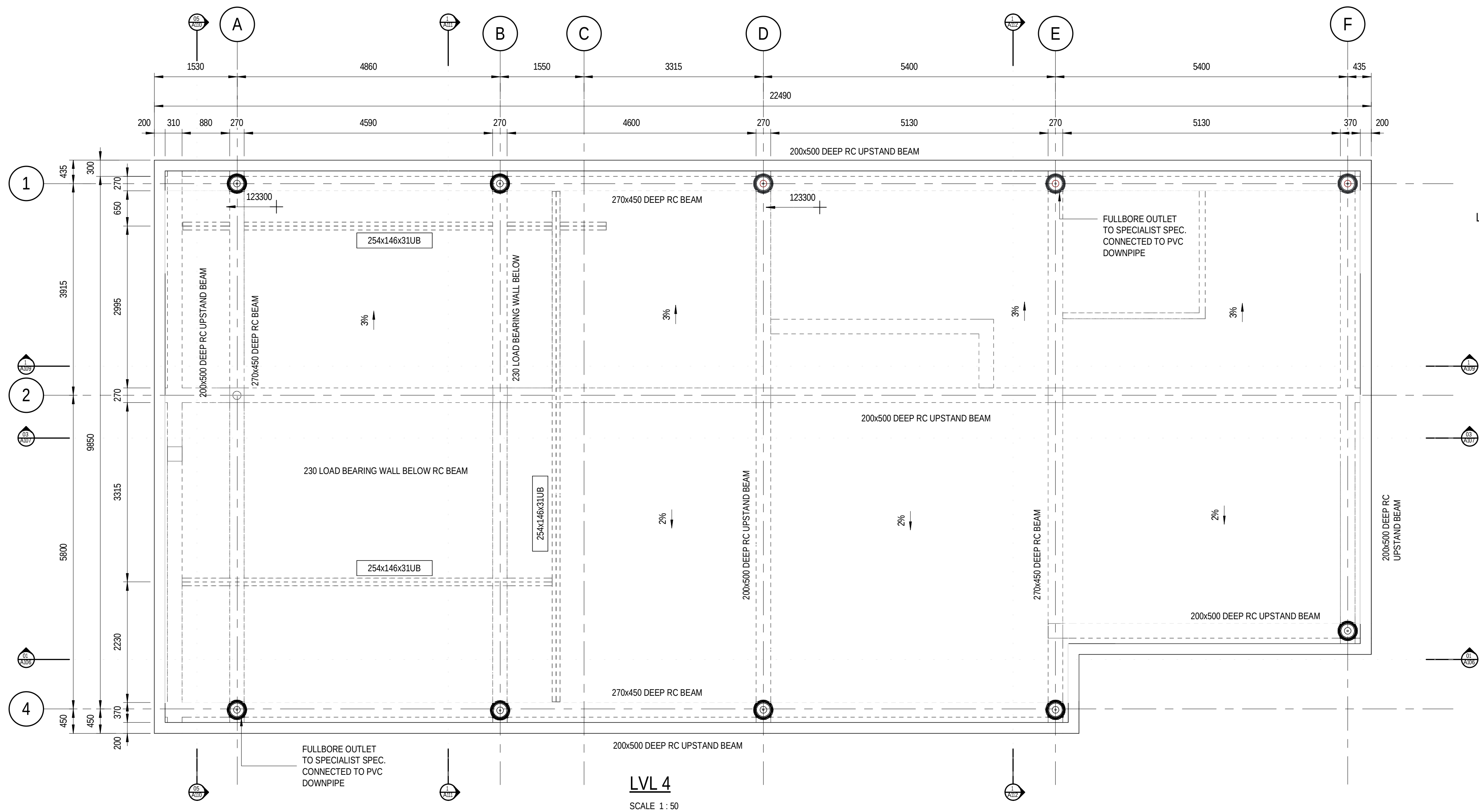
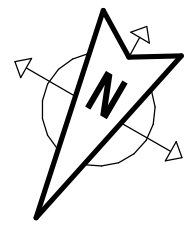
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2024/08/09 20:00:57

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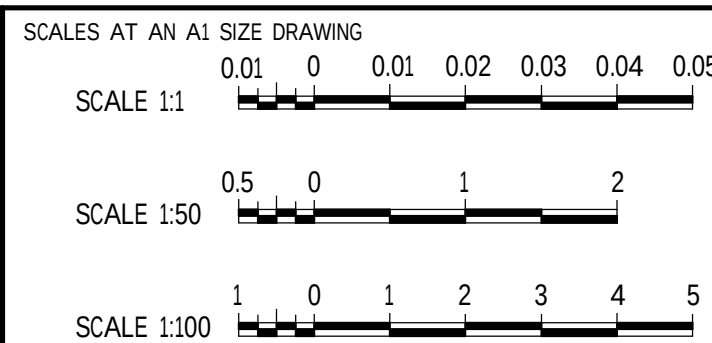
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NOTE:
DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.



REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
					DESIGNER	S. FAUSTINO
					DESIGN CHECK	G. WHALLEY
					PROJECT MANAGER	T.CRONJE
					PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED
ENGINEER:
PR ENG NR:
SIGNATURE:



GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION			
ROOF PLAN			
PROJECT NO. C1924	PHASE	DRAWING NUMBER A105	REVISION

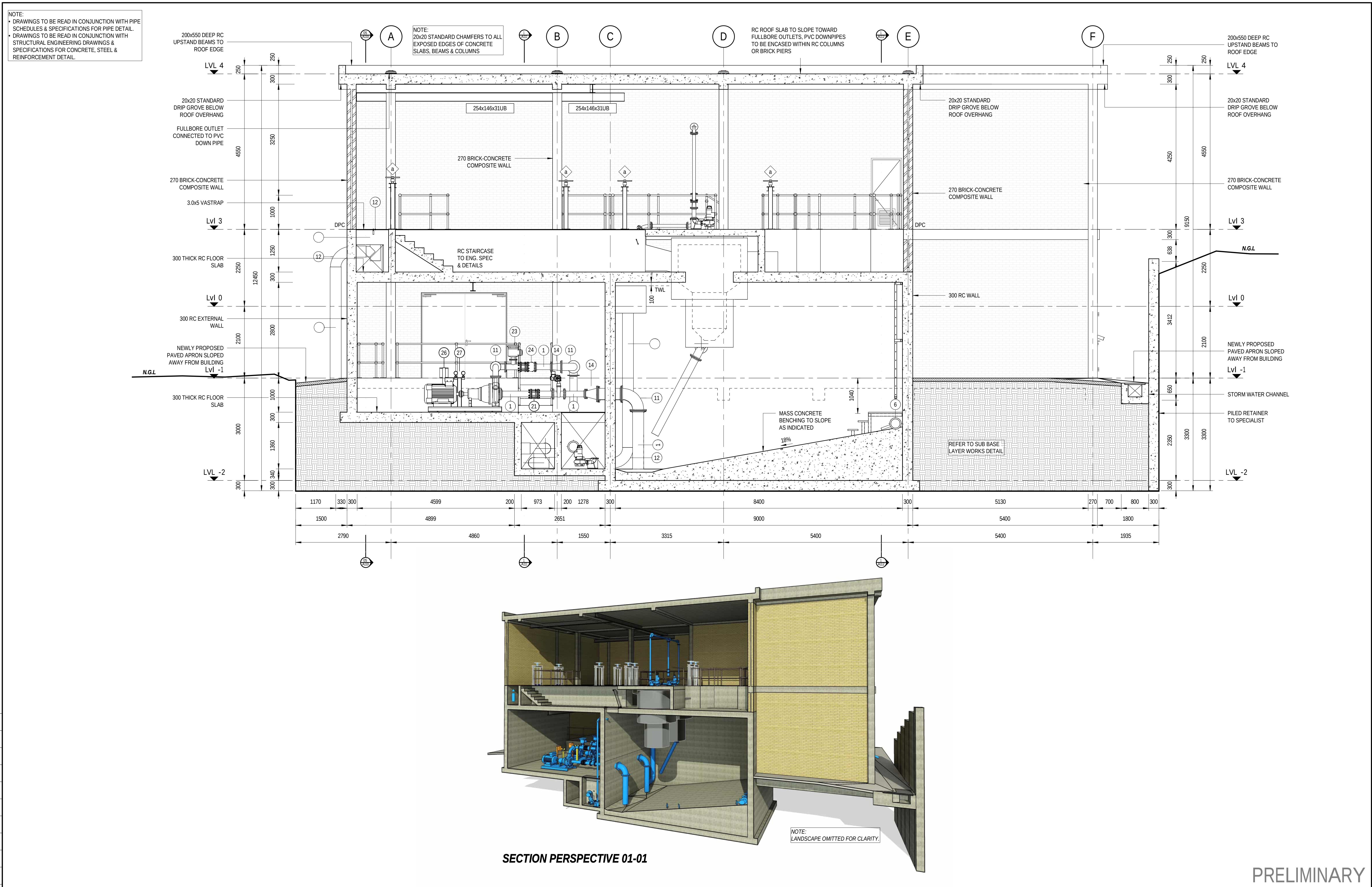
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DRAWING FILE LOCATION / NAME

2024/08/09 20:01:09



PRELIMINARY

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME	DRAWING APPROVED	DESIGNER	CLIENT	PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
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1			-	-	DRAFTING CHECK	G. WHALLEY	PR ENG NR:	South Africa					
					DESIGNER	S. FAUSTINO	SIGNATURE:	Member of the Surbana Jurong Group					
					DESIGN CHECK	G. WHALLEY		SABS					
					PROJECT MANAGER	T.CRONJE		ISO 9001					
					PROJECT DIRECTOR	T.CRONJE							

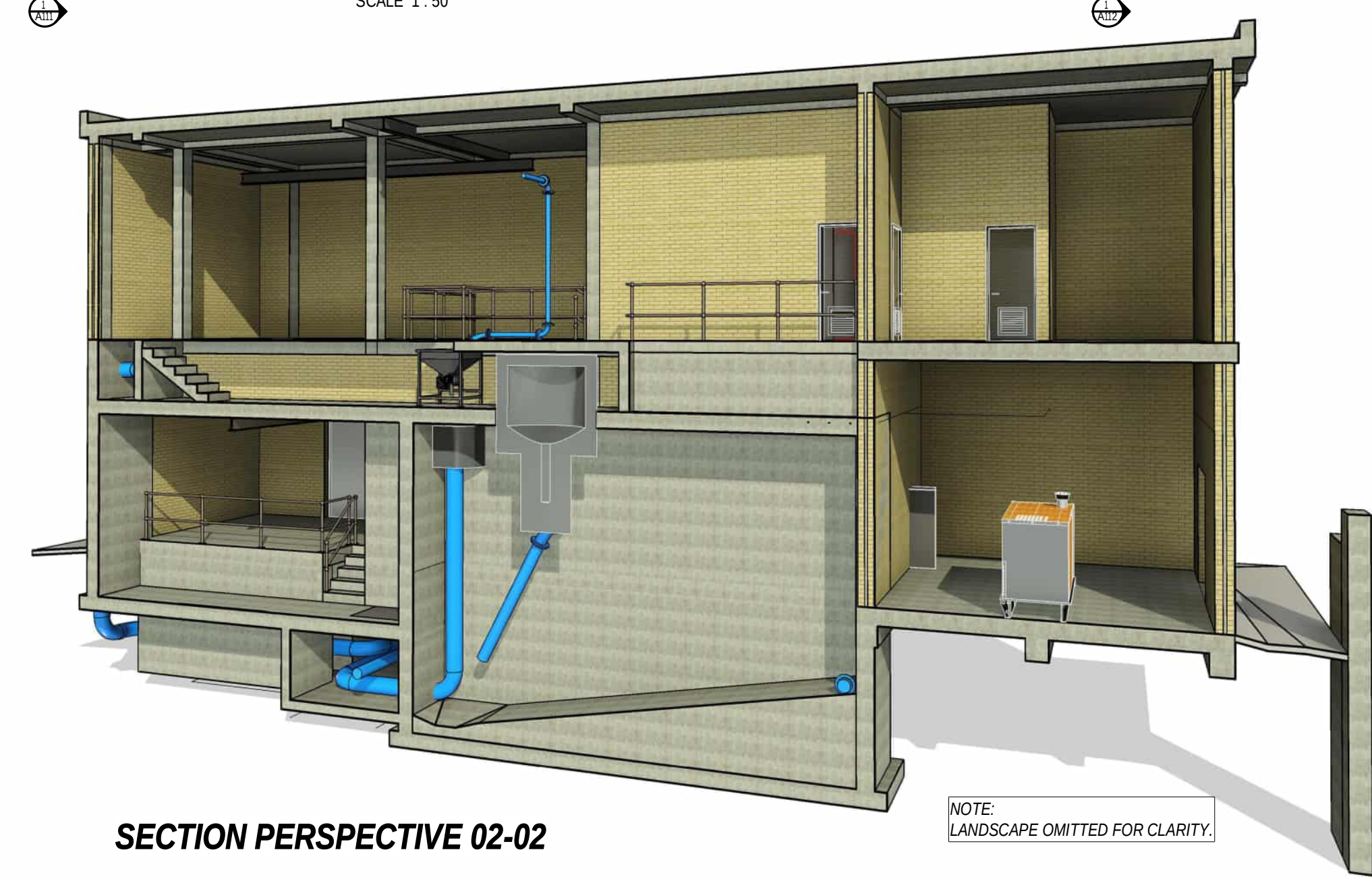
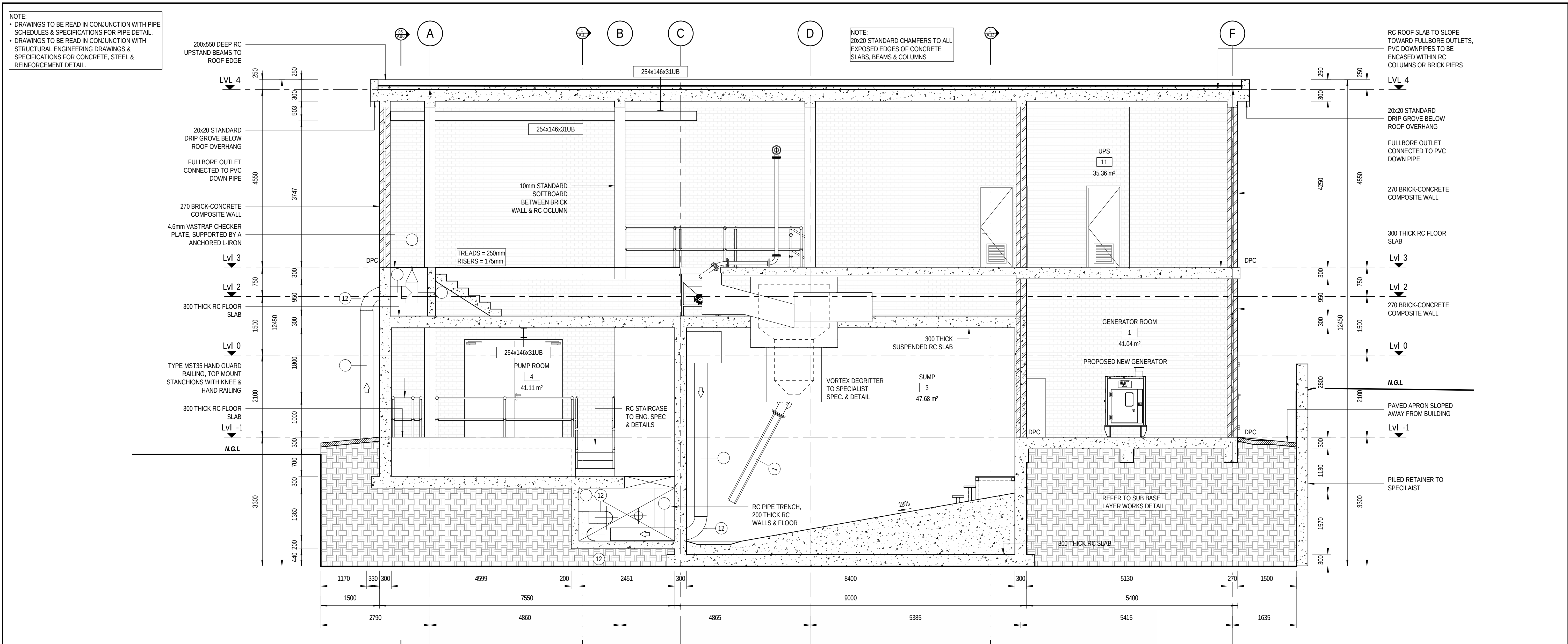
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DRAWING FILE LOCATION / NAME

2024/08/09 20:01:23



REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME	DRAWING APPROVED	DESIGNER	CLIENT	PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
2			-	-	DRAFTER	G. MAREDI	ENGINEER:			C1924		A107	
1			-	-	DRAFTING CHECK	G. WHALLEY	PR ENG NR:						
					DESIGNER	S. FAUSTINO	SIGNATURE:						
					DESIGN CHECK	G. WHALLEY							
					PROJECT MANAGER	T. CRONJE							
					PROJECT DIRECTOR	T. CRONJE							

SCALES AT AN A1 SIZE DRAWING

SCALE 1:1 0.01 0 0.01 0.02 0.03 0.04 0.05

SCALE 1:50 0.5 0 1 2

SCALE 1:100 1 0 1 2 3 4 5

DESIGNER

SMEC South Africa
Member of the Surbana Jurong Group

SABS
ISO 9001

CLIENT

GEORGE
THE CITY FOR ALL REASONS

GEORGE MUNICIPALITY
HEROLD'S BAY PUMP STATION

SECTION 02-02

150 mm ON ORIGINAL

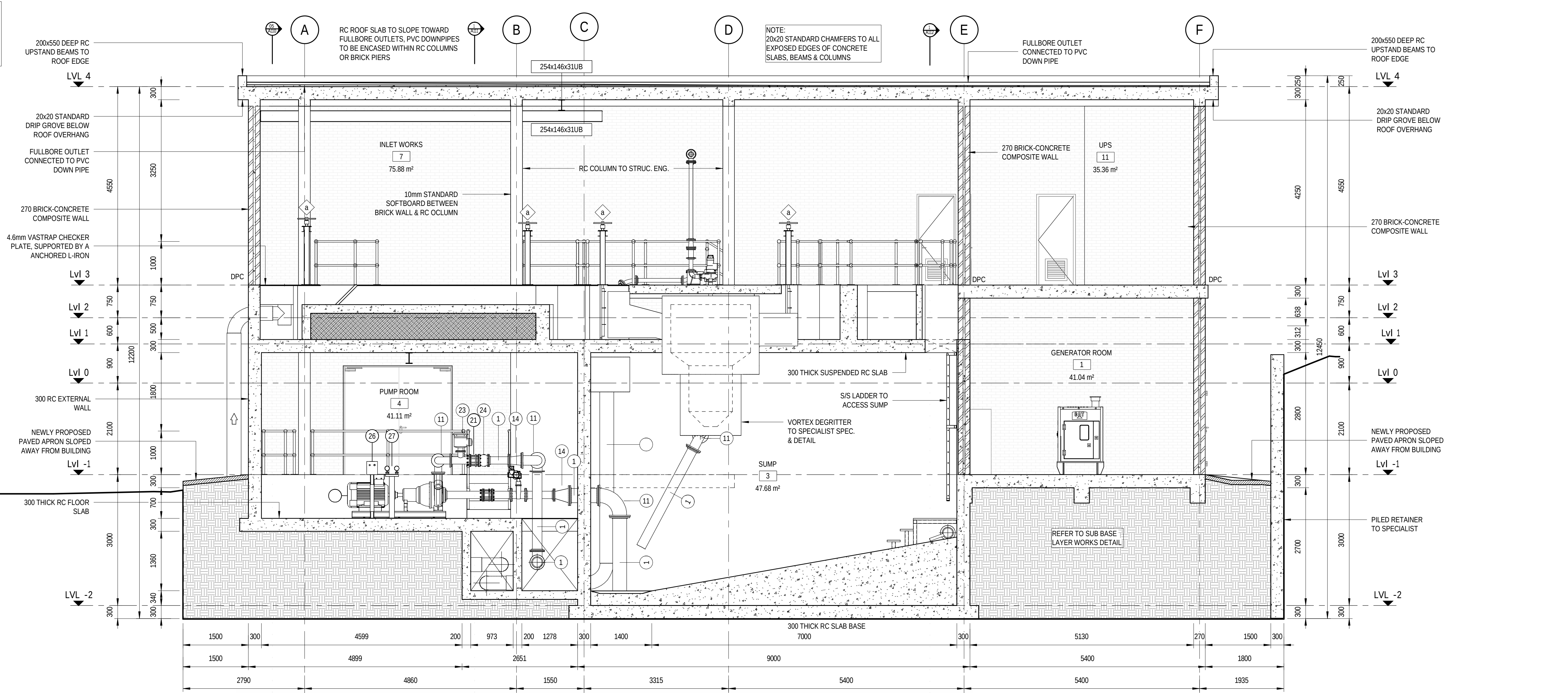
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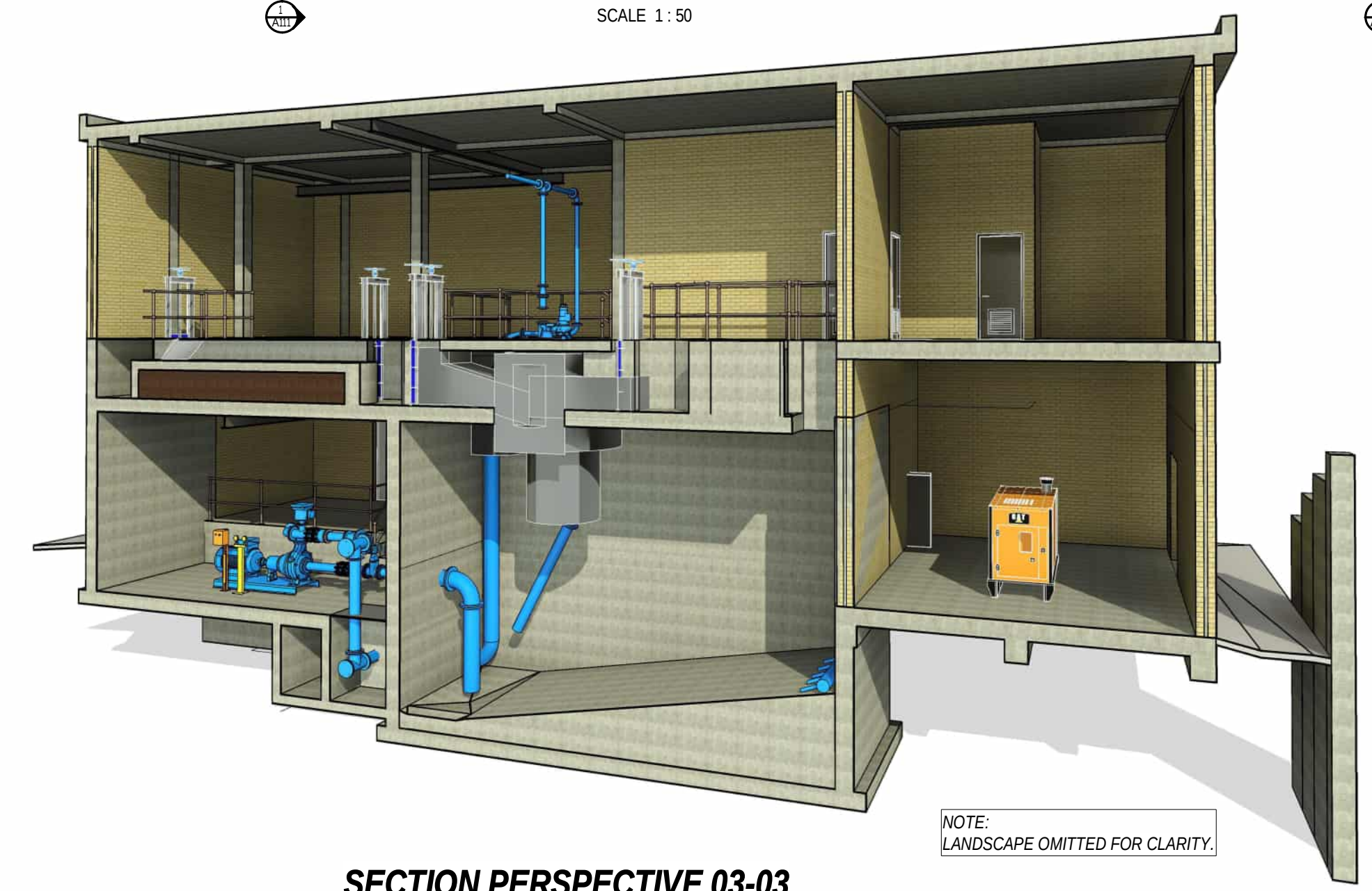
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2024/08/09 20:03:36

NOTE:
DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.



SECTION 02-02
SCALE 1 : 50



NOTE:
LANDSCAPE OMITTED FOR CLARITY.

SECTION PERSPECTIVE 03-03

PRELIMINARY

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME	DRAWING APPROVED	DESIGNER	CLIENT	GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION				
2 1			-	-	DRAFTER	G. MAREDI	ENGINEER:	SCALES AT AN A1 SIZE DRAWING SCALE 1:1 SCALE 1:50 SCALE 1:100	 Member of the Surbana Jurong Group 		SECTION 03-03			
		-	-	DRAFTING CHECK	G. WHALLEY	PR ENG NR:								
		-	-	DESIGNER	S. FAUSTINO	SIGNATURE:								
				DESIGN CHECK	G. WHALLEY									
				PROJECT MANAGER	T.CRONJE									
				PROJECT DIRECTOR	T.CRONJE									

150 mm ON ORIGINAL

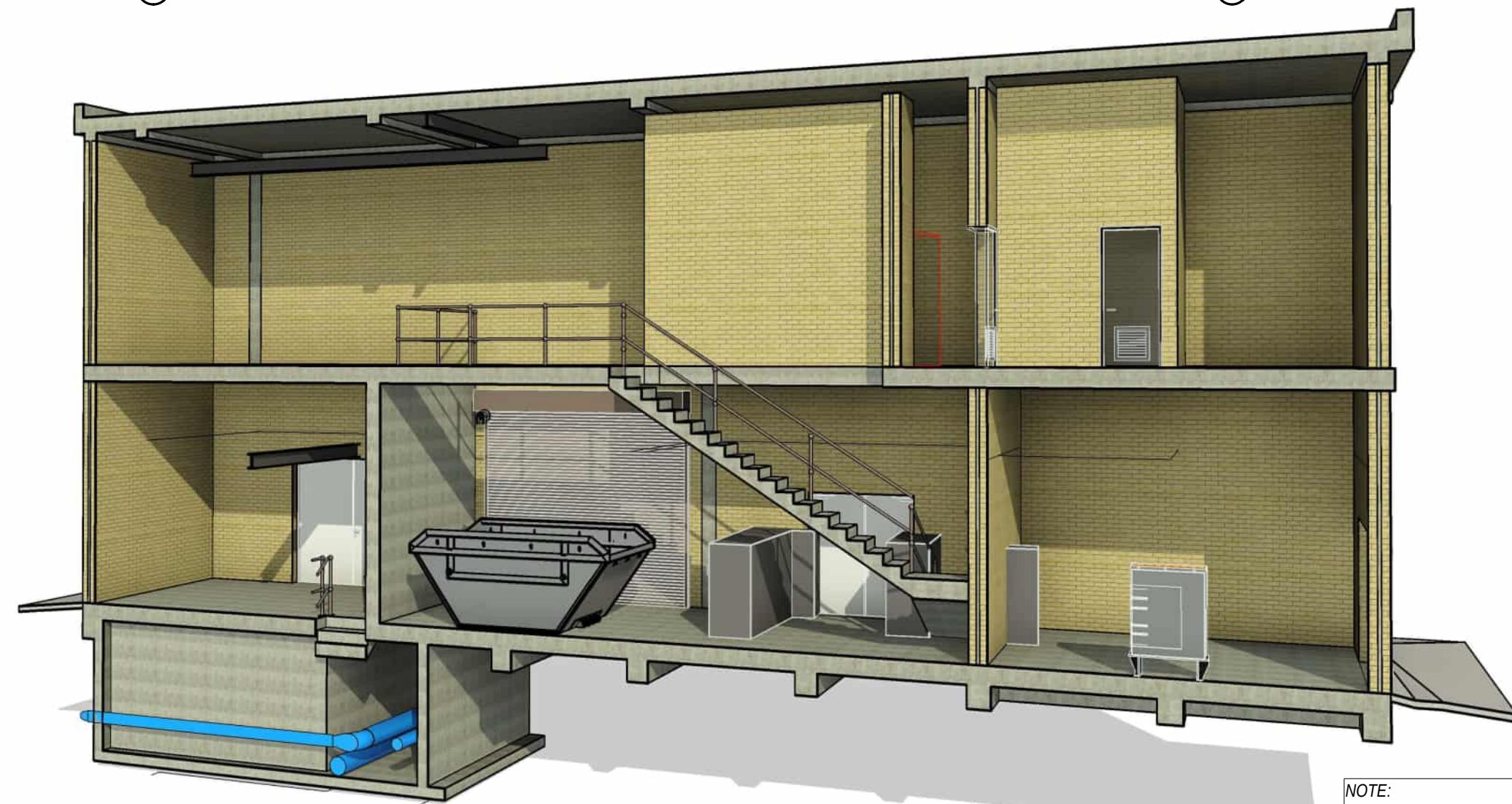
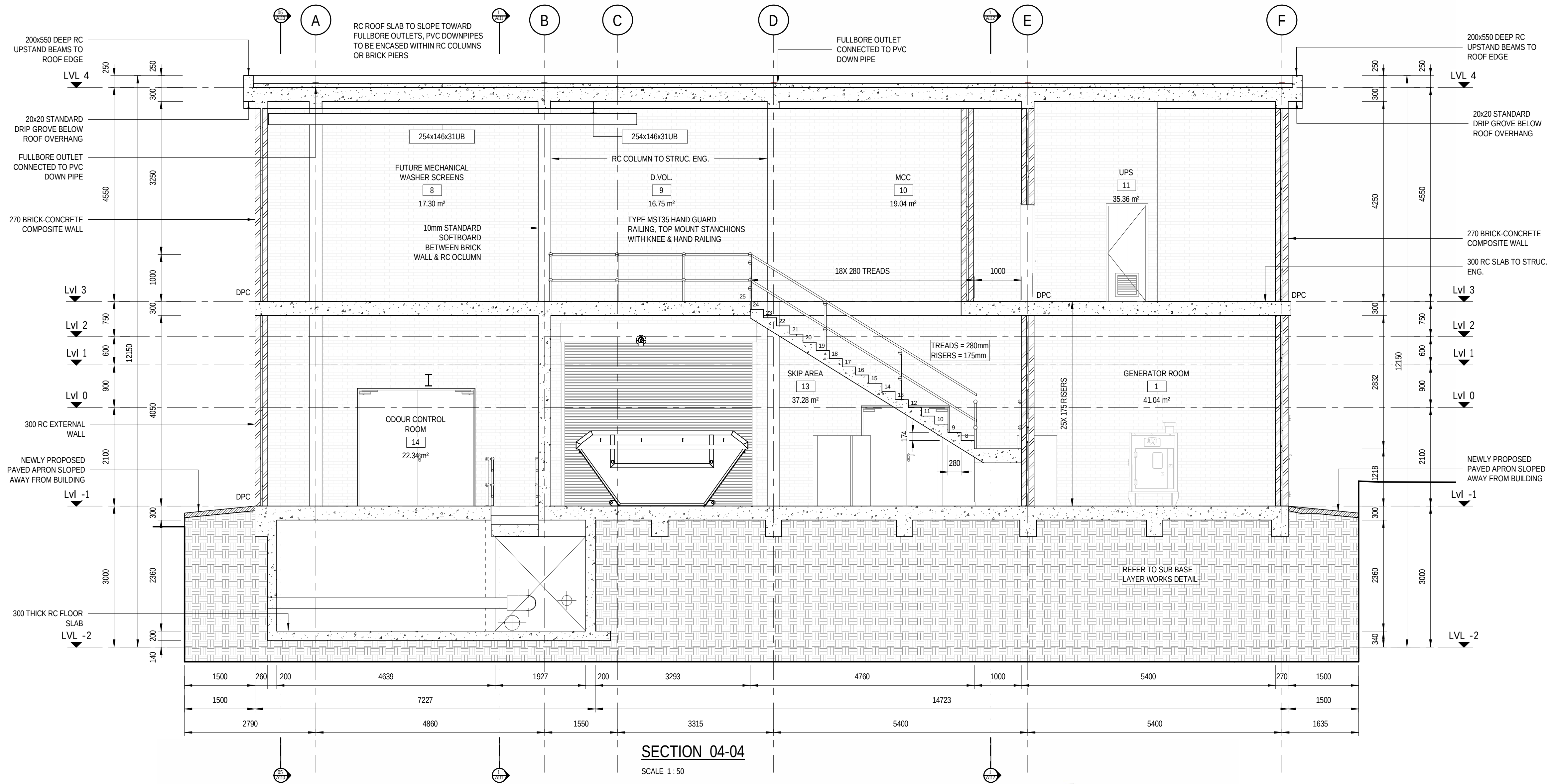
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DRAWING FILE LOCATION / NAME

2024/08/09 20:01:55

PLOT DATE TIME

NOTE:
• DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
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SECTION PERSPECTIVE 04-04

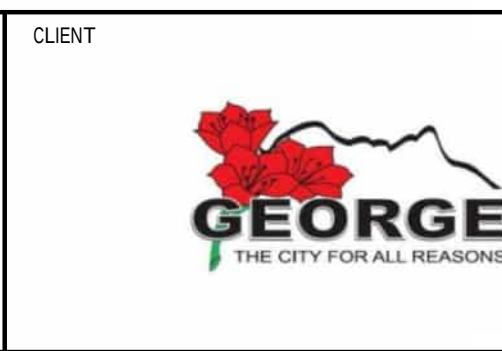
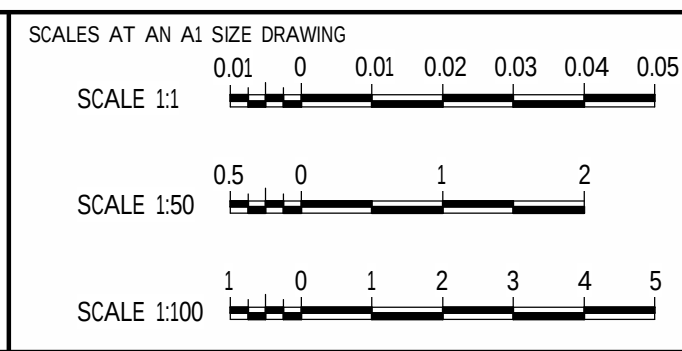
REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
2					DRAFTER	G. MAREDI
1					DRAFTING CHECK	G. WHALLEY
					DESIGNER	S. FAUSTINO
					DESIGN CHECK	G. WHALLEY
					PROJECT MANAGER	T. CRONJE
					PROJECT DIRECTOR	T. CRONJE

DRAWING APPROVED

ENGINEER:

PR ENG NR:

SIGNATURE:



PRELIMINARY			
GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION			
SECTION 04-04			
PROJECT NO. C1924	PHASE	DRAWING NUMBER A109	REVISION

PLOT DATE TIME
2024/08/09 20:02:13

DRAWING FILE LOCATION / NAME

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140

130

120

110

100

90

80

70

60

50

40

30

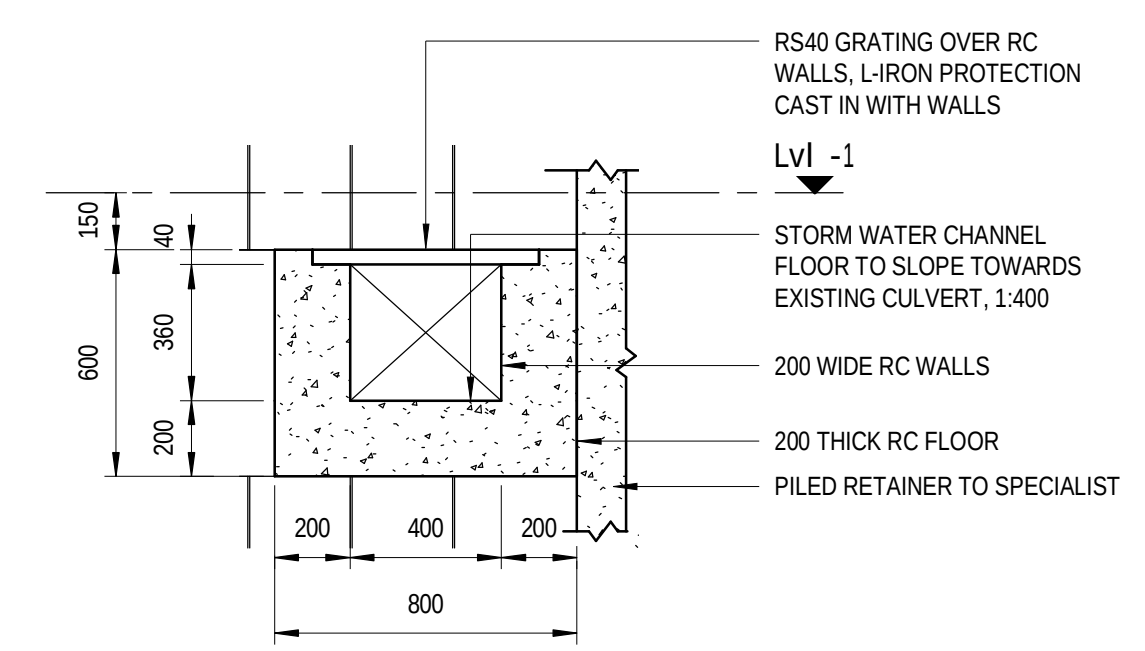
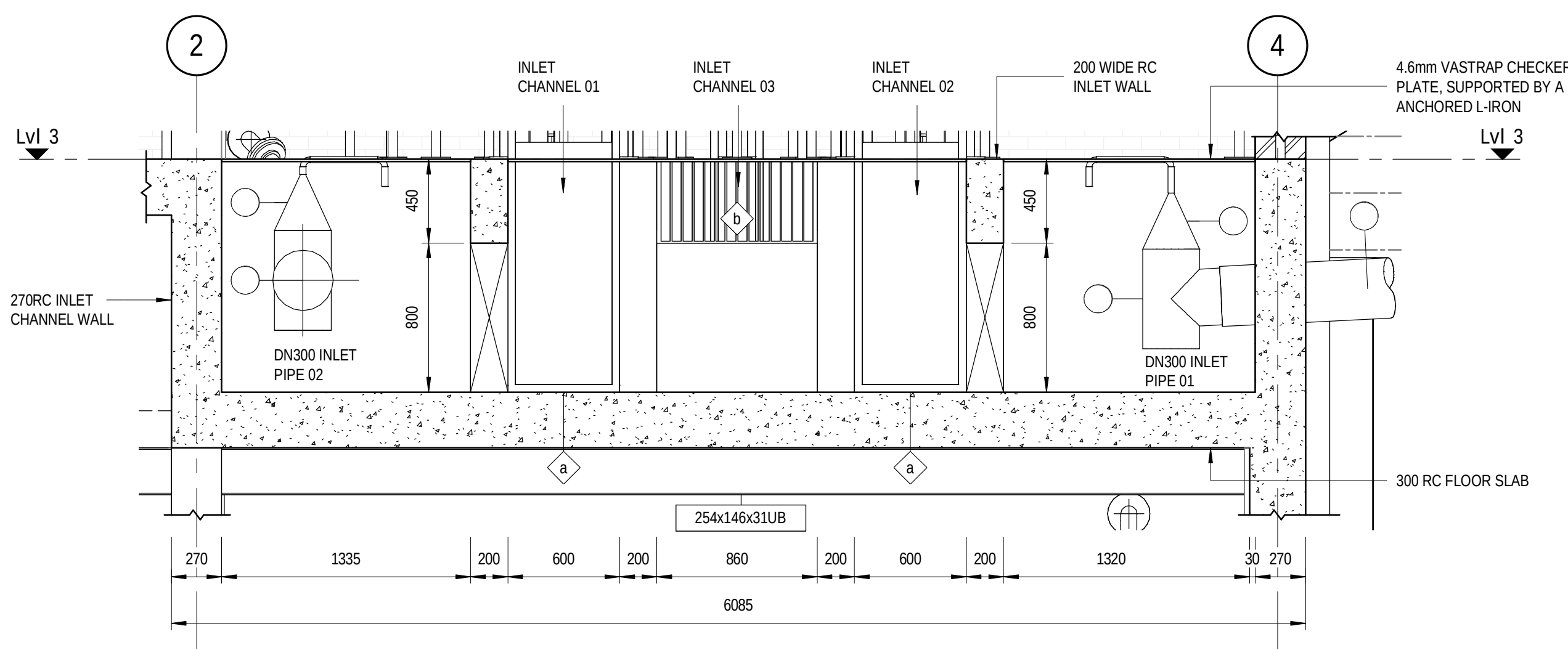
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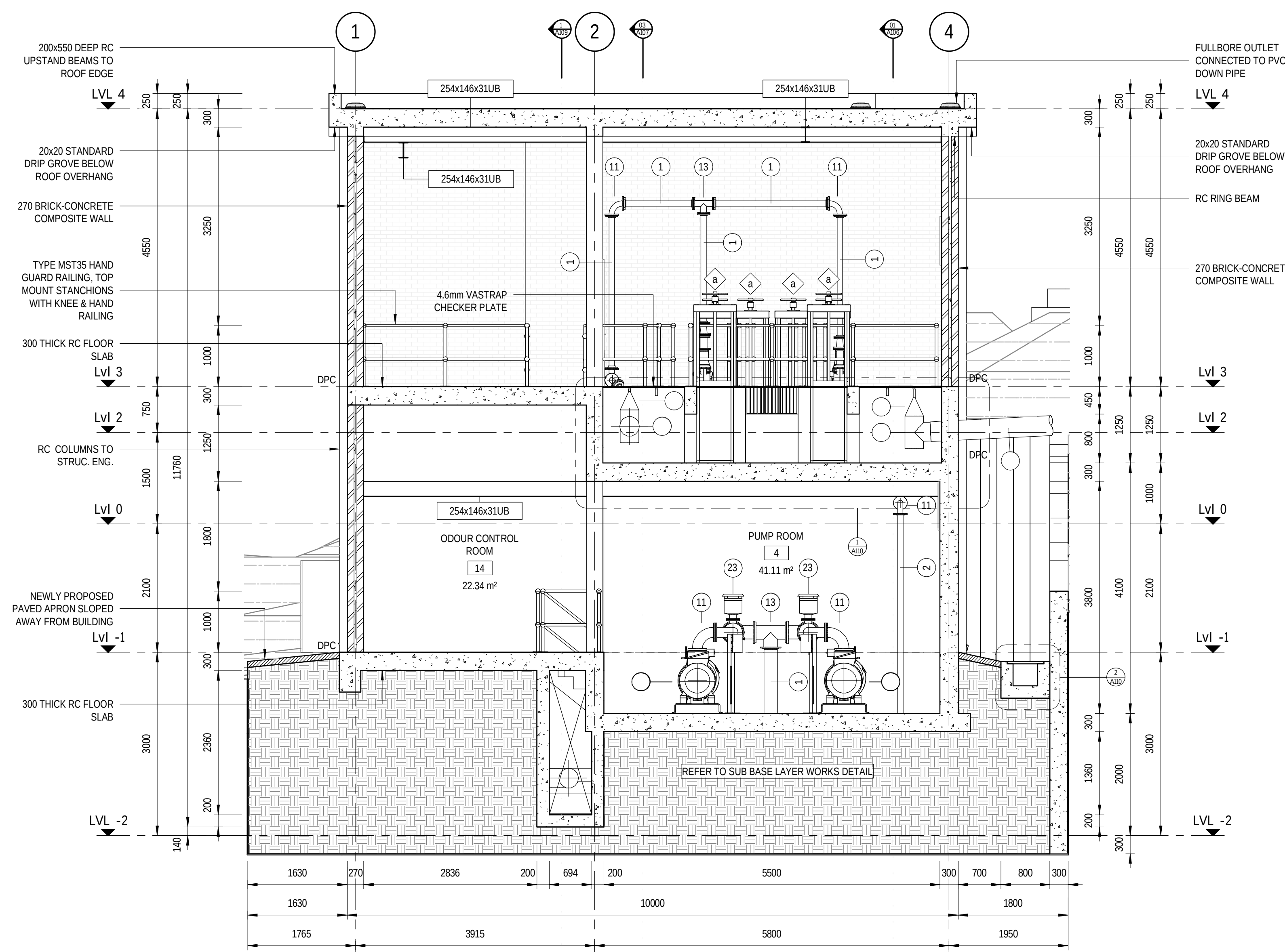
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NOTE:
• DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
• DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.



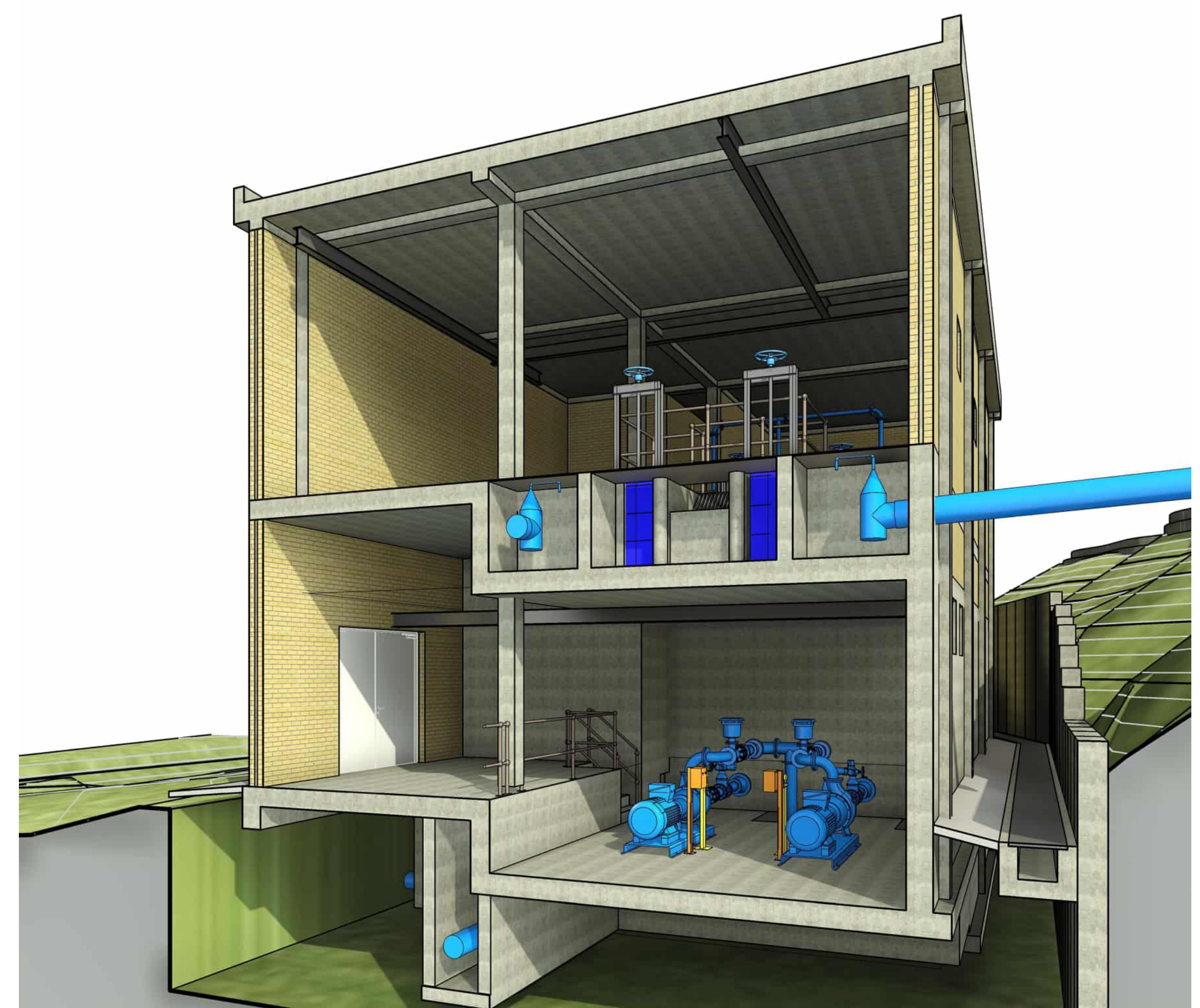
SECTION 05-05 - Callout 2

SCALE 1:20



SECTION 05-05

SCALE 1:50

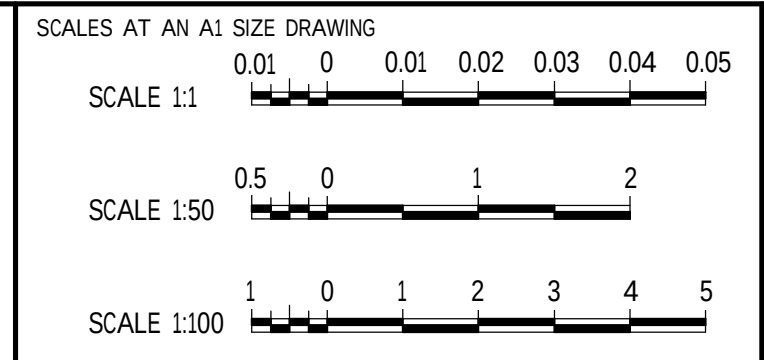


SECTION PERSPECTIVE 05-05

PRELIMINARY

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
			-	-	DESIGNER	S. FAUSTINO
			-	-	DESIGN CHECK	G. WHALLEY
			-	-	PROJECT MANAGER	T.CRONJE
			-	-	PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED
ENGINEER:
PR ENG NR:
SIGNATURE:



DESIGNER

 **SMEC**
South Africa
Member of the Surbana Jurong Group

 **SABS**
ISO 9001

CLIENT

 **GEORGE**
THE CITY FOR ALL REASONS

GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION			
SECTION 05-05			
PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
C1924		A110	

PLOT DATE TIME
2024/08/09 20:03:38

DRAWING FILE LOCATION / NAME

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140

130

120

110

100

90

80

70

60

50

40

30

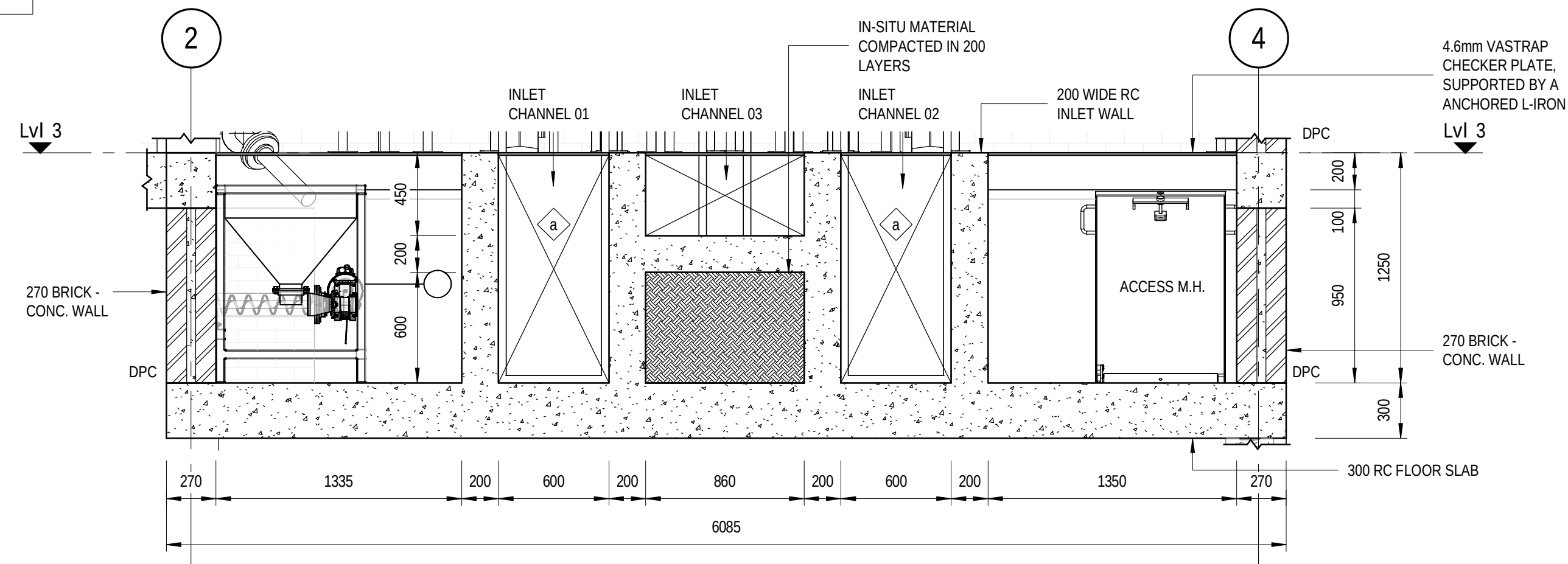
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10

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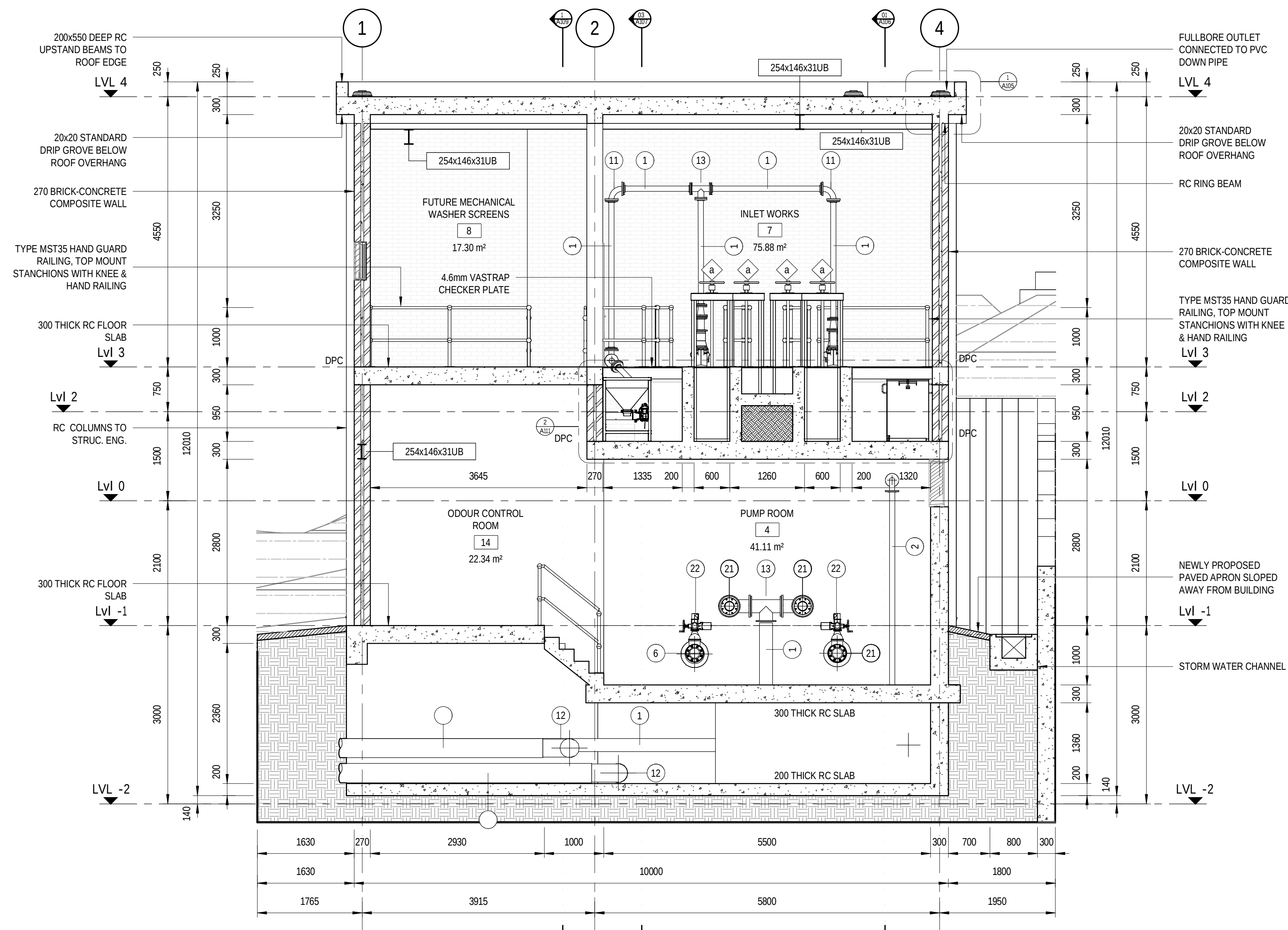
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NOTE:
DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE
SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
DRAWINGS TO BE READ IN CONJUNCTION WITH
STRUCTURAL ENGINEERING DRAWINGS &
SPECIFICATIONS FOR CONCRETE, STEEL &
REINFORCEMENT DETAIL.



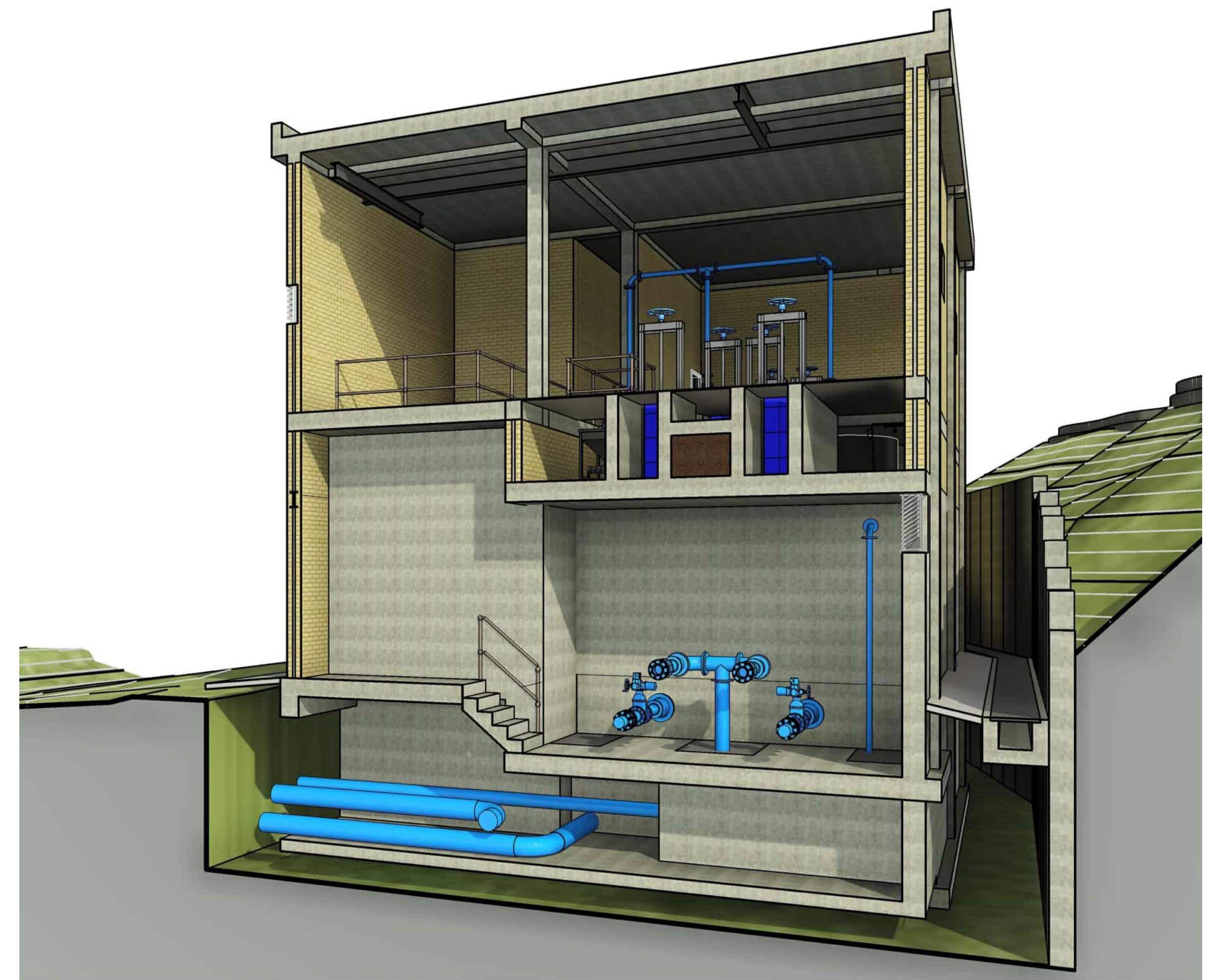
SECTION 06-06 - Callout 1

SCALE 1:25



SECTION 06-06

SCALE 1:50

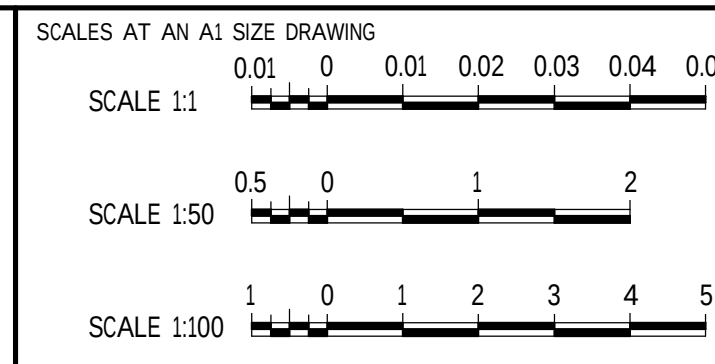


SECTION PERSPECTIVE 06-06

PRELIMINARY

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
			-	-	DESIGNER	S. FAUSTINO
			-	-	DESIGN CHECK	G. WHALLEY
			-	-	PROJECT MANAGER	T.CRONJE
			-	-	PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED
ENGINEER:
PR ENG NR:
SIGNATURE:



DESIGNER

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GEORGE MUNICIPALITY
HEROLD'S BAY PUMP STATION

SECTION 06-06

PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
C1924		A111	

150 mm ON ORIGINAL

AL

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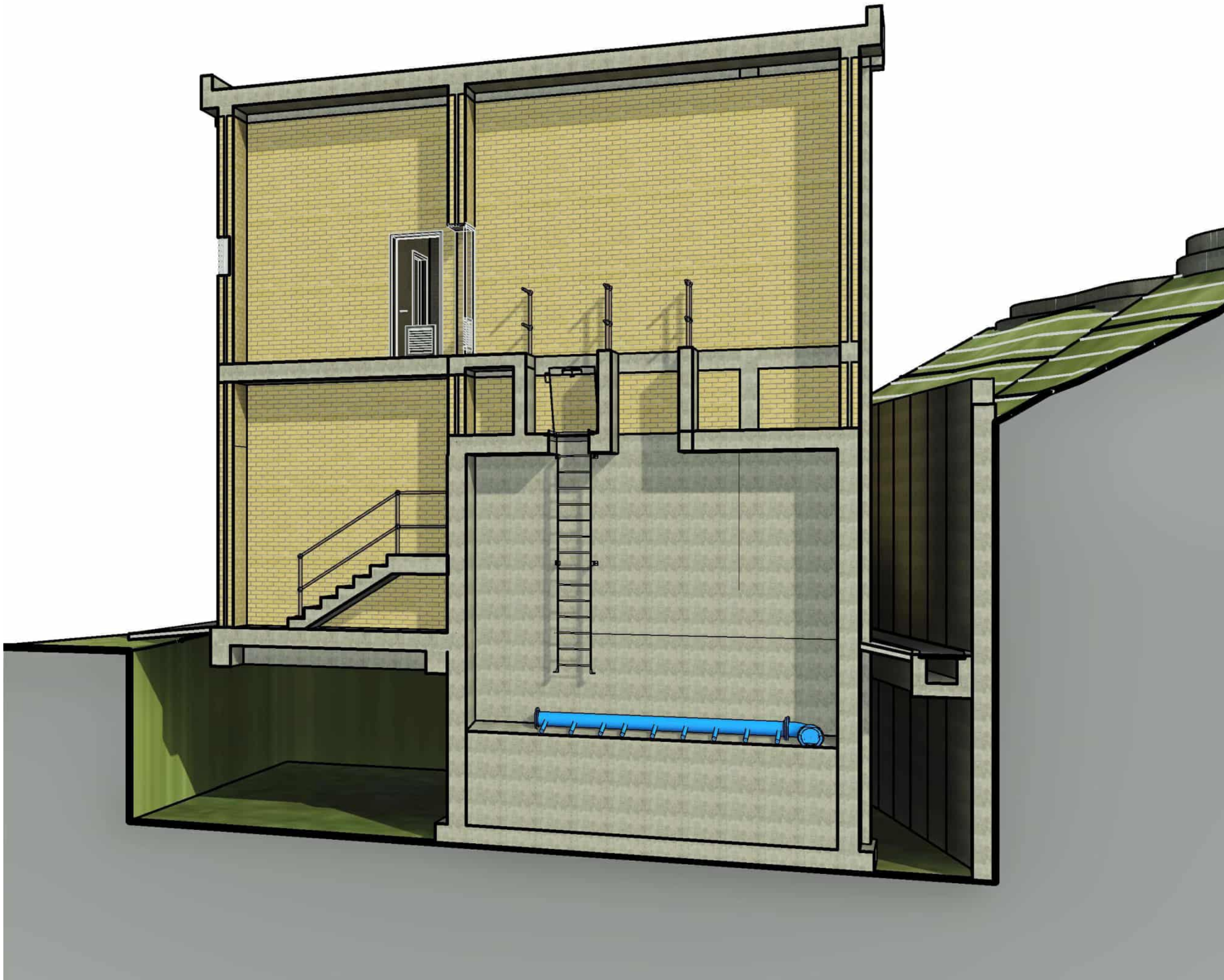
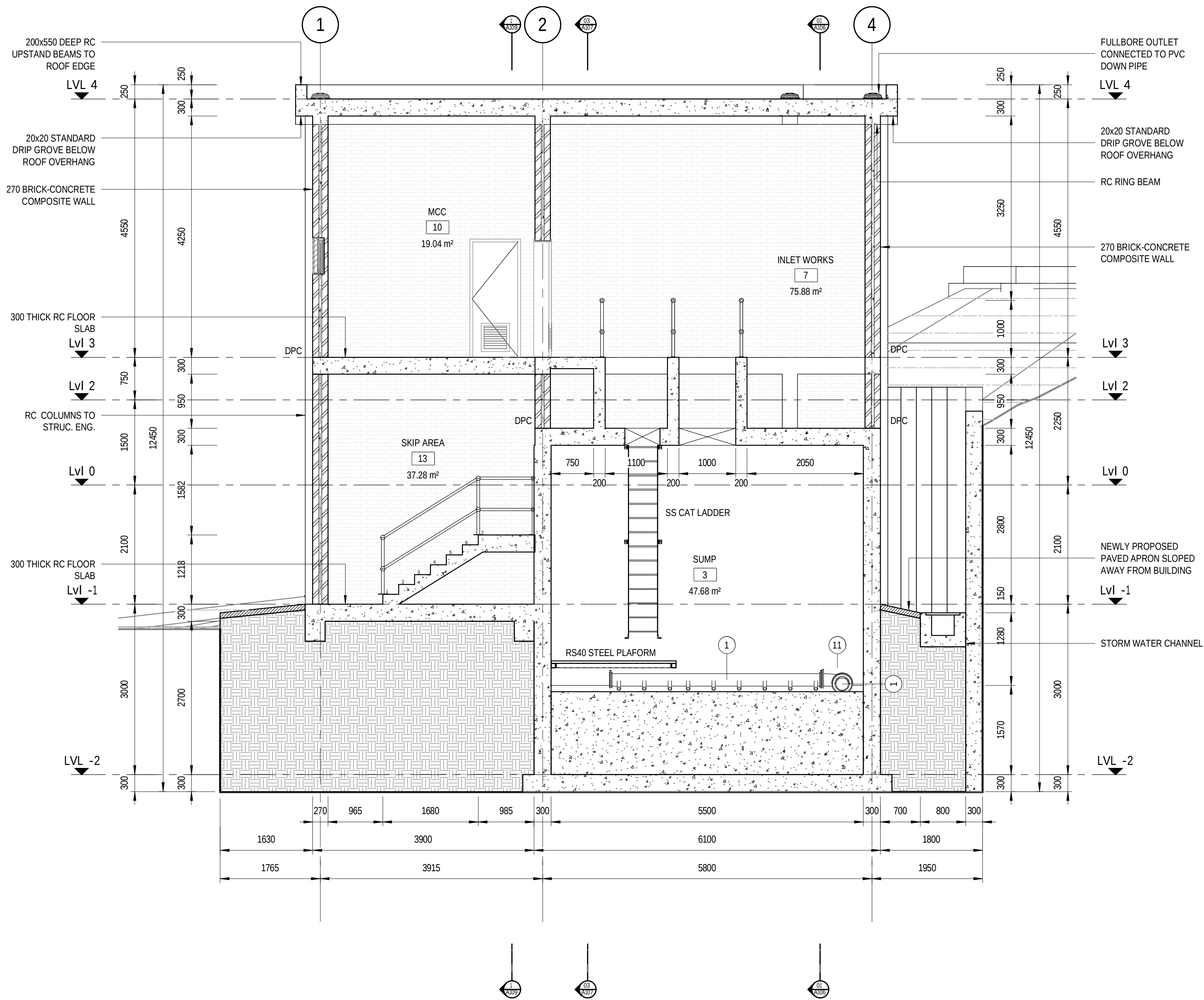
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PLOT DATE TIME

2024/08/09 20:03:46

NOTE:

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SECTION PERSPECTIVE 07-07

PRELIMINARY

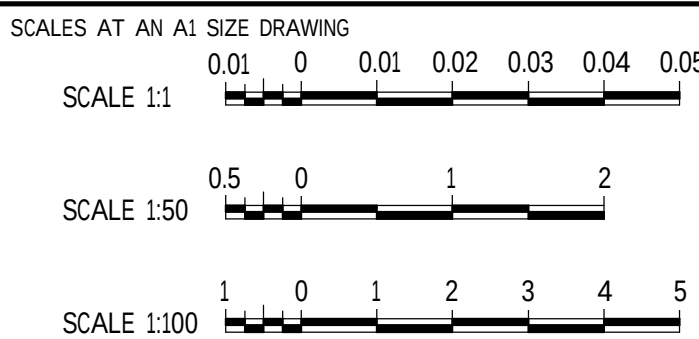
REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
			-	-	DESIGNER	S. FAUSTINO
			-	-	DESIGN CHECK	G. WHALLEY
			-	-	PROJECT MANAGER	T.CRONJE
			-	-	PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED

ENGINEER:

PR ENG NR:

SIGNATURE:



DESIGNER

SMEC South Africa

Member of the Surbana Jurong Group

SABS ISO 9001

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GEORGE MUNICIPALITY

HEROLD'S BAY PUMP STATION

SECTION 07-07

PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
C1924		A112	

150 mm ON ORIGINAL

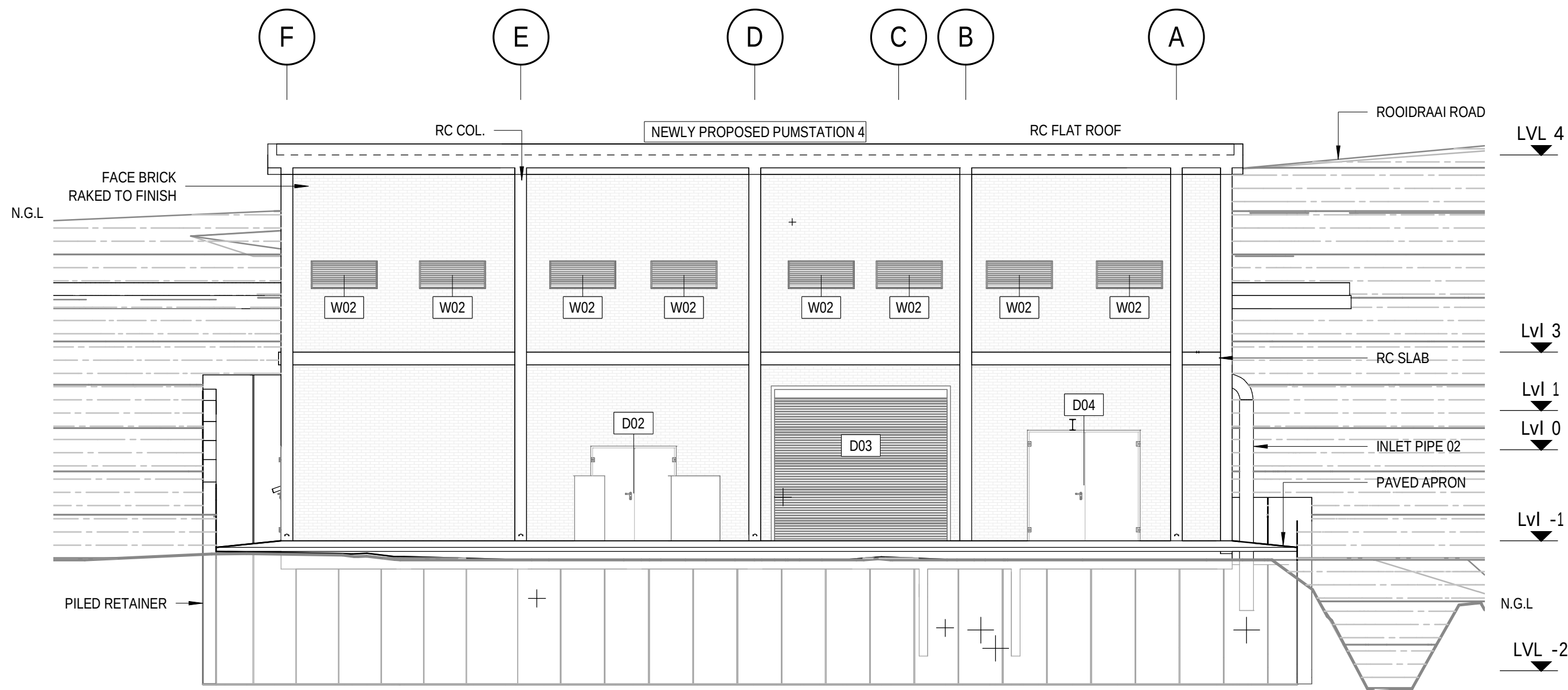
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DRAWING FILE LOCATION / NAME

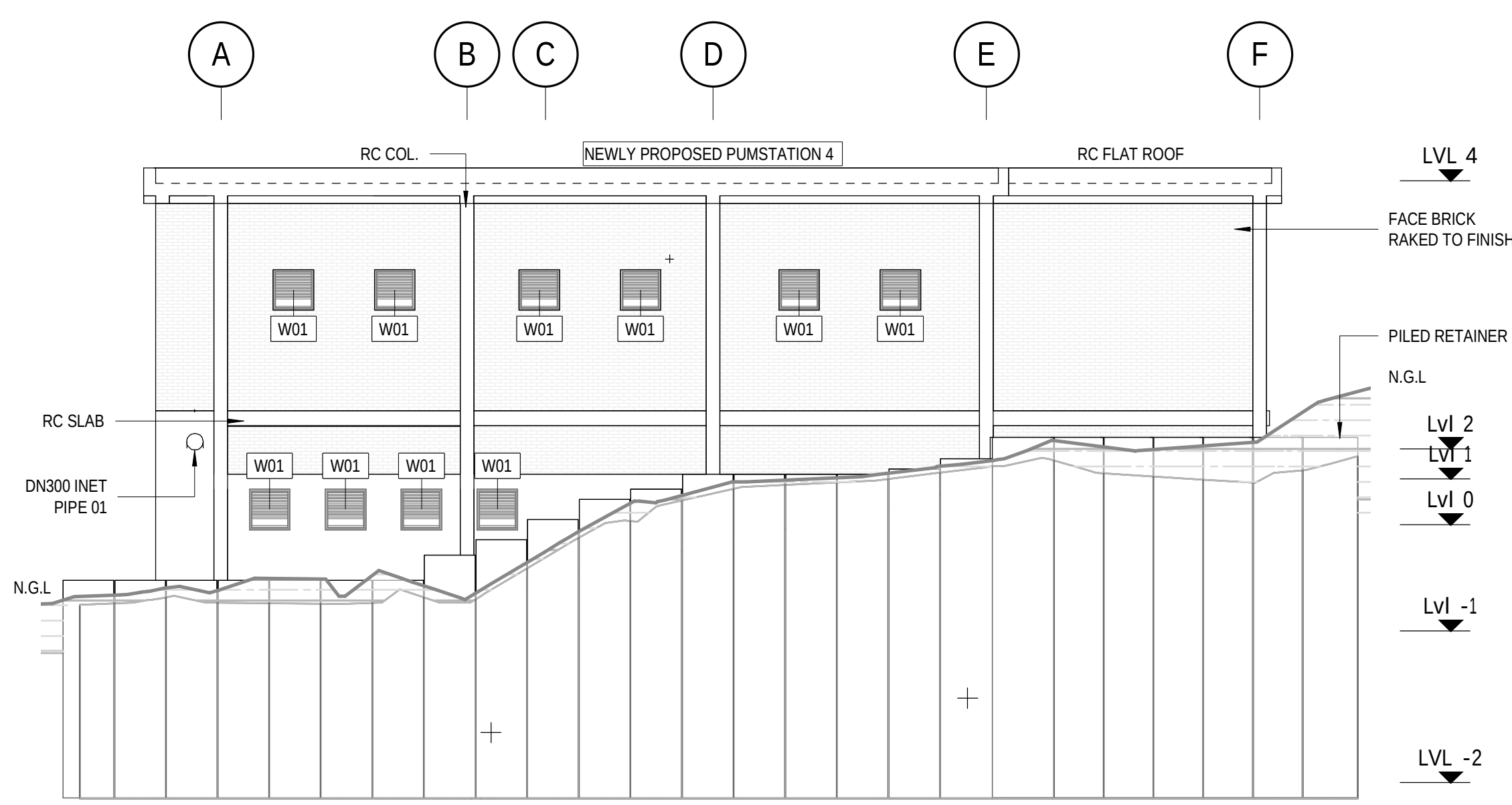
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NOTE:
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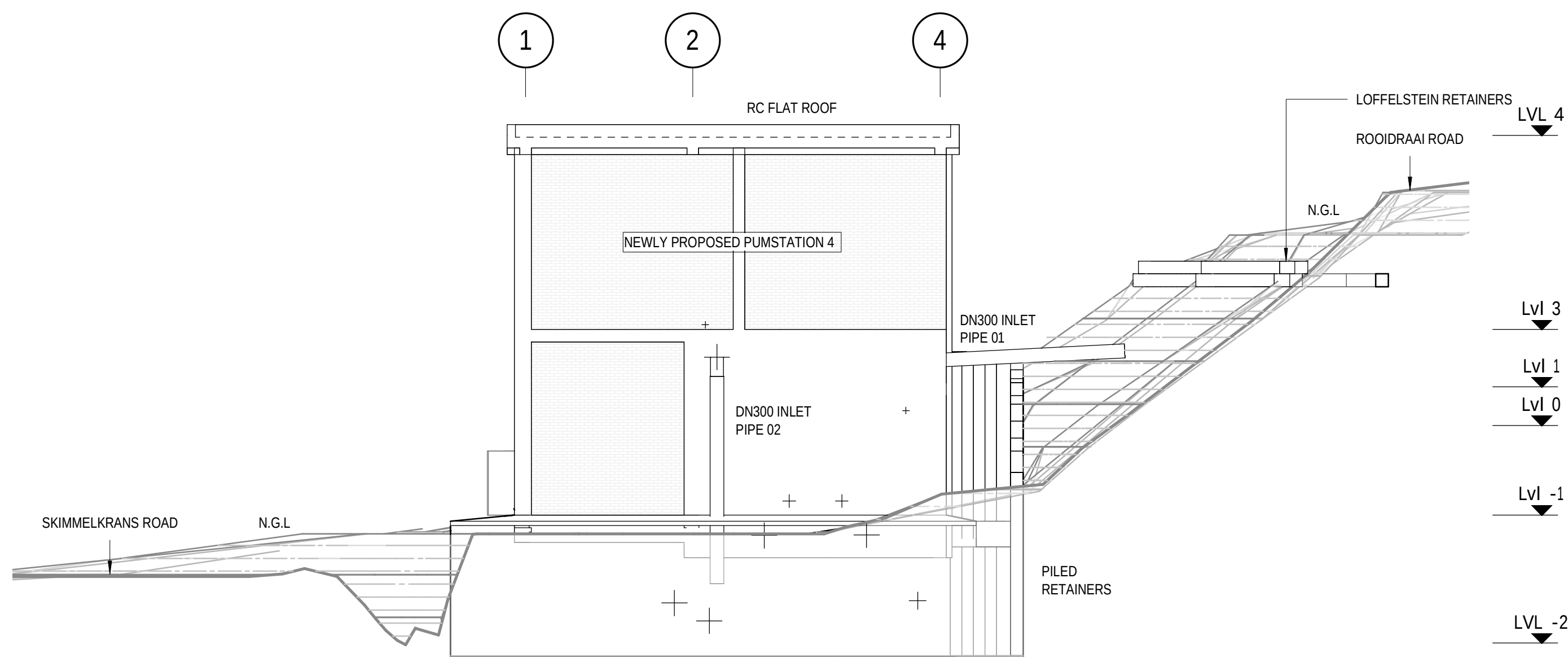
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SCALE 1:100



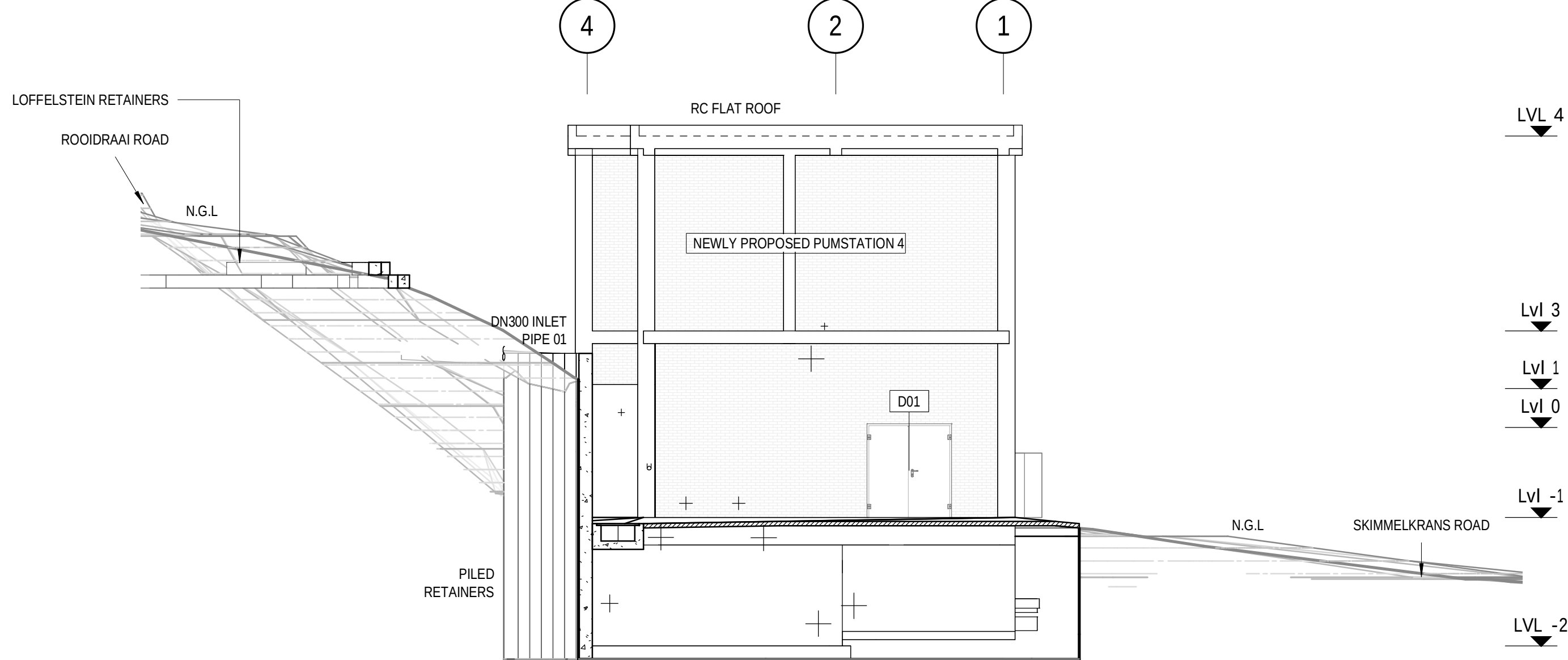
NORTH WEST ELEVATION

SCALE 1:100



NORTH EAST ELEVATION

SCALE 1:100



SOUTH WEST ELEVATION

SCALE 1:100

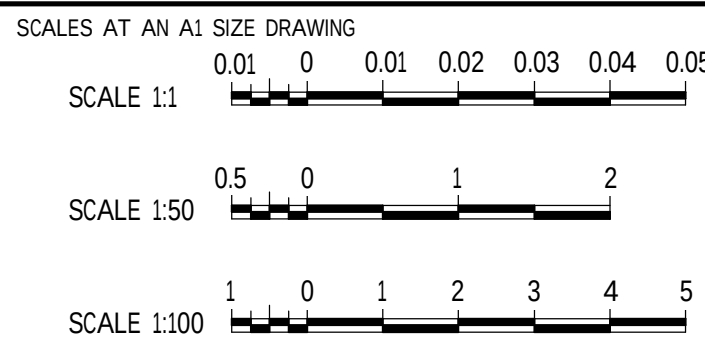
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2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
			-	-	DESIGNER	S. FAUSTINO
			-	-	DESIGN CHECK	G. WHALLEY
			-	-	PROJECT MANAGER	T.CRONJE
			-	-	PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED

ENGINEER:

PR ENG NR:

SIGNATURE:



GEORGE MUNICIPALITY
HEROLD'S BAY PUMP STATION

ELEVATIONS

PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
C1924		A113	

PRELIMINARY

150 mm ON ORIGINAL

AL

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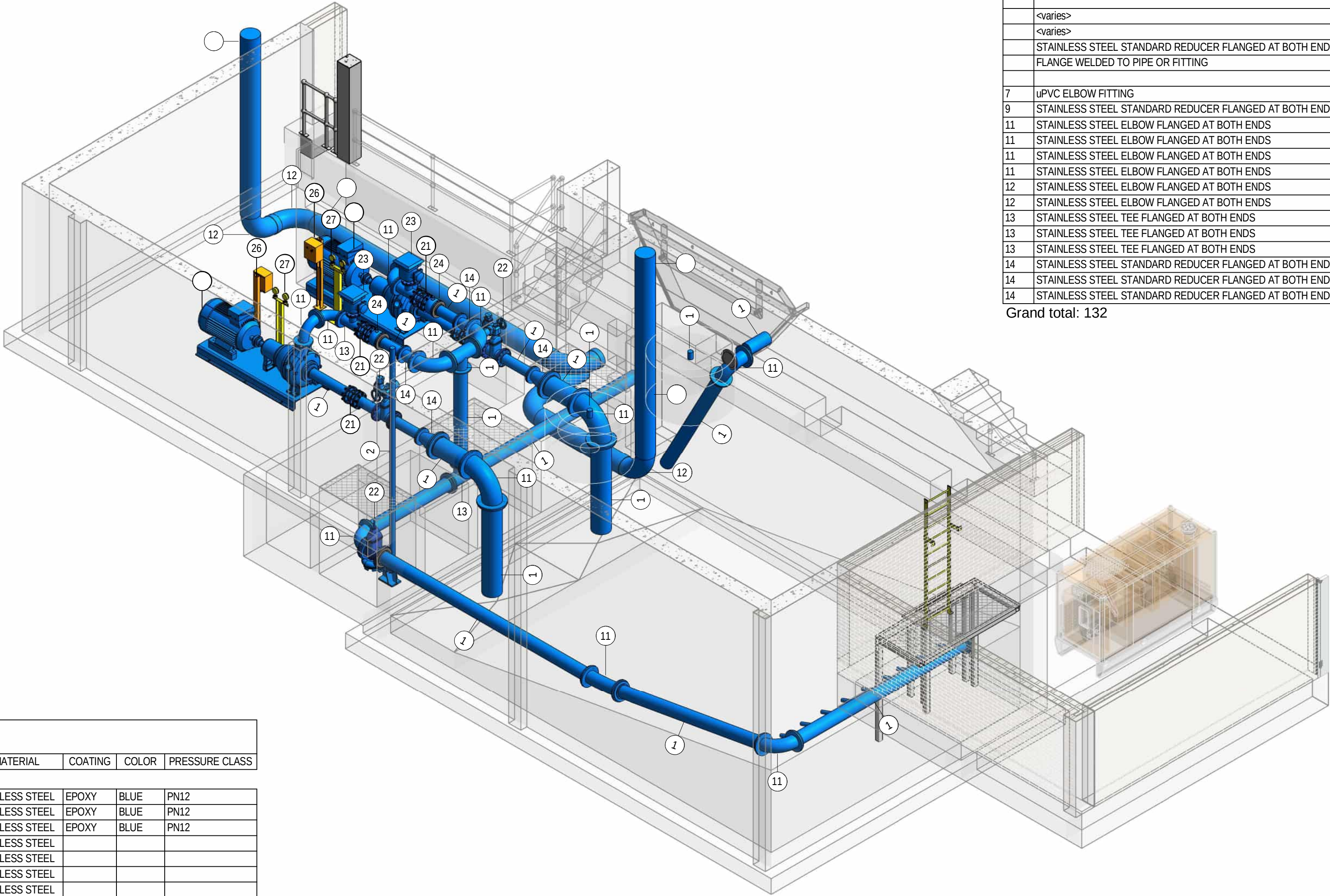
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PLOT DATE TIME

2024/08/09 20:06:46

NOTE:

- DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
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MECHANICAL EQUIPMENT SCHEDULE		
FAMILY & TYPE	DESCRIPTION	COUNT
75_ME_ME_S_CHANNEL SLUICE GATE: TOP WHEEL	SLUICE GATE	8
Hand Screen1: Hand Screen	SEWER HAND SCREEN	1
Hand Screen2: Hand Screen	SEWER HAND SCREEN	1
Hand Screen4: Hand Screen	SEWER HAND SCREEN	1
Huber Mechanical Screen2: Huber Mechanical Screen	MECHANICAL SCREEN	1
Huber Mechanical Screen3: Huber Mechanical Screen	MECHANICAL SCREEN	1
SumpPump: Amarex Drainage Pump - 80mm Dia - PN16	MECHANICAL SCREEN	3
Grand total: 16		

TABLE 3 - PIPE ACCESSORY SCHEDULE								
MARK	DESCRIPTION	COUNT	DIAMETER	LINING	MATERIAL	COATING	COLOR	PRESSURE CLASS
22	VALVE - GATE	3	150	EPOXY	STAINLESS STEEL	EPOXY	BLUE	PN12
23	VALVE - AIR VALVE	2	150	EPOXY	STAINLESS STEEL	EPOXY	BLUE	PN12
24	NON RETURN VALVE AXIAL GUIDED DN15	2	150	EPOXY	STAINLESS STEEL	EPOXY	BLUE	PN12
31	FULL BORE OUTLET	7	80	EPOXY	STAINLESS STEEL			
32	FULL BORE OUTLET	1	80	EPOXY	STAINLESS STEEL			
33	FULL BORE OUTLET	1	80	EPOXY	STAINLESS STEEL			
34	FULL BORE OUTLET	1	80	EPOXY	STAINLESS STEEL			
35	FULL BORE OUTLET	1	80	EPOXY	STAINLESS STEEL			
36	FULL BORE OUTLET	1	80	EPOXY	STAINLESS STEEL			
38	FULL BORE OUTLET	1	80	EPOXY	STAINLESS STEEL			
Grand total: 20								

GENERIC MODEL SCHEDULE	
FAMILY & TYPE	COUNT
45 PRESSURE GAGES AZ01: 45 PRESSURE GAGES AZ01	2
45 Stop Start Box 2: 45 Stop Start Box 2	2
DismantlingJoint_DN150-PN16: DismantlingJoint_DN150-PN16	4
Family3: Family3	1
KSB Sewatec K150-503G: KSB Sewatec K150-503G	2
LADDER WITHOUT RAILS 3400 mm HEIGHT: LADDER WITHOUT RAILS 3400 mm HEIGHT	1
TD 49 Manhole Cover & Frame C: TD 49 Manhole Cover & Frame C	2
WasteContainer: WasteContainer	1

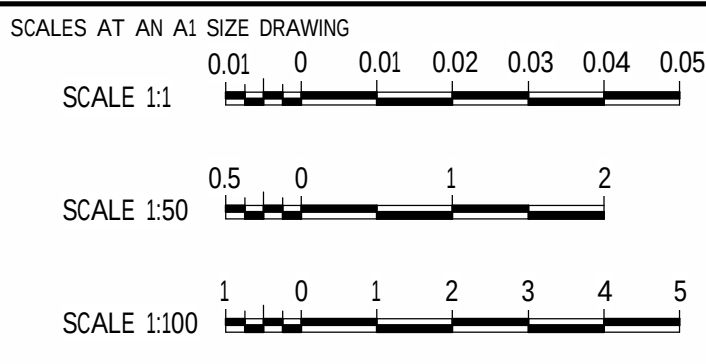
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2			-	-	DRAFTER	G. MAREDI
1			-	-	DRAFTING CHECK	G. WHALLEY
			-	-	DESIGNER	S. FAUSTINO
					DESIGN CHECK	G. WHALLEY
					PROJECT MANAGER	T.CRONJE
					PROJECT DIRECTOR	T.CRONJE

DRAWING APPROVED

ENGINEER:

PR ENG NR:

SIGNATURE:



PRELIMINARY

GEORGE MUNICIPALITY

HEROLD'S BAY PUMP STATION

ISOMETRIC VIEW & SCHEDULES

PROJECT NO.	PHASE	DRAWING NUMBER	REVISION
C1924		A114	

TABLE 1 - PIPE SCHEDULE - STRAIGHT PIPE								
MARK	DESCRIPTION	DIAMETER	LENGTH	COUNT	MATERIAL	LINING	COATING	PRESSURE CLASS
	STAINLESS STEEL PIPE FLANGED AT ONE OR BOTH ENDS	25 mm	1.13 m	6	STAINLESS STEEL	EPOXY	EPOXY	BLUE
	uPVC ROOF DRAINAGE PIPE - STRAIGHT LENGTHS	80 mm	24.40 m	6	UNPLASTICIZED POLYVINYL CHLORIDE	-	-	CHARCOAL GREY
	STAINLESS STEEL PIPE FLANGED AT ONE OR BOTH ENDS	300 mm	30.13 m	9	STAINLESS STEEL	EPOXY	EPOXY	BLUE
1	STAINLESS STEEL PIPE FLANGED AT ONE OR BOTH ENDS	50 mm	3.96 m	9	STAINLESS STEEL	EPOXY	EPOXY	BLUE
1	STAINLESS STEEL PIPE FLANGED AT ONE OR BOTH ENDS	80 mm	16.20 m	10	STAINLESS STEEL	EPOXY	EPOXY	BLUE
1	STAINLESS STEEL PIPE FLANGED AT ONE OR BOTH ENDS	100 mm	0.42 m	2	STAINLESS STEEL	EPOXY	EPOXY	BLUE
1	STAINLESS STEEL PIPE FLANGED AT ONE OR BOTH ENDS	150 mm	4.16 m	8	STAINLESS STEEL	EPOXY	EPOXY	BLUE
1	STAINLESS STEEL PIPE FLANGED AT ONE OR BOTH ENDS	200 mm	25.25 m	8	STAINLESS STEEL	EPOXY	EPOXY	BLUE
1	STAINLESS STEEL PIPE FLANGED AT ONE OR BOTH ENDS	300 mm	4.52 m	4	STAINLESS STEEL	EPOXY	EPOXY	BLUE
2	STAINLESS STEEL PIPE FLANGED AT ONE OR BOTH ENDS	80 mm	5.02 m	2	STAINLESS STEEL	EPOXY	EPOXY	BLUE
3	uPVC ROOF DRAINAGE PIPE - STRAIGHT LENGTHS	80 mm	51.02 m	12	UNPLASTICIZED POLYVINYL CHLORIDE	-	-	CHARCOAL GREY

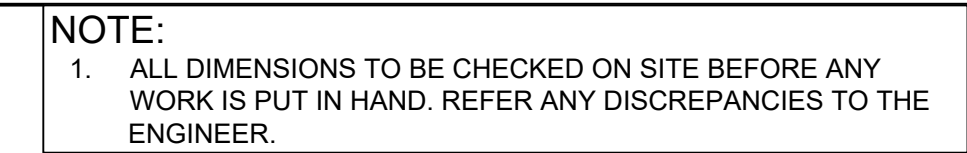
Grand total: 76

166.2
2 m

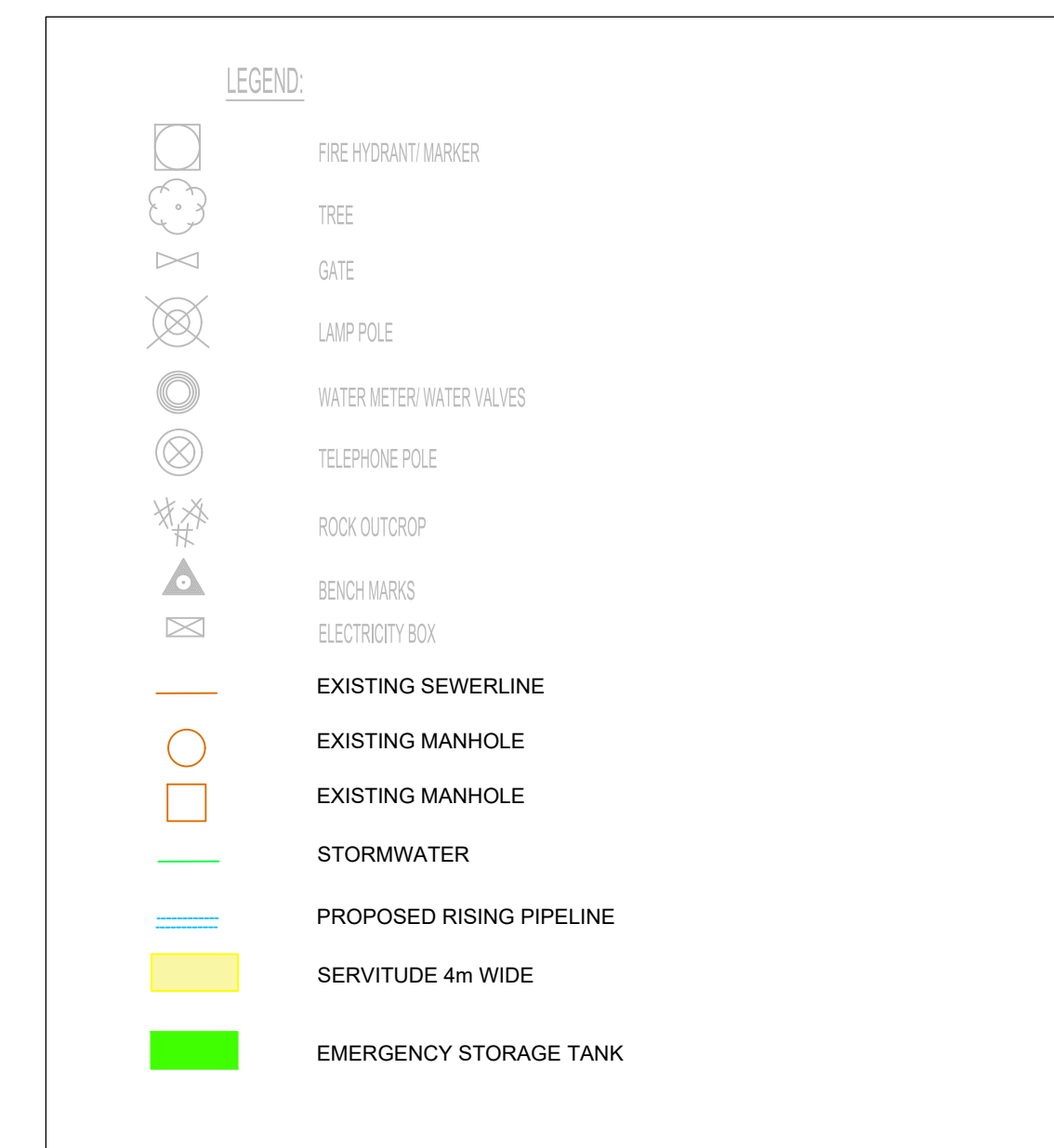
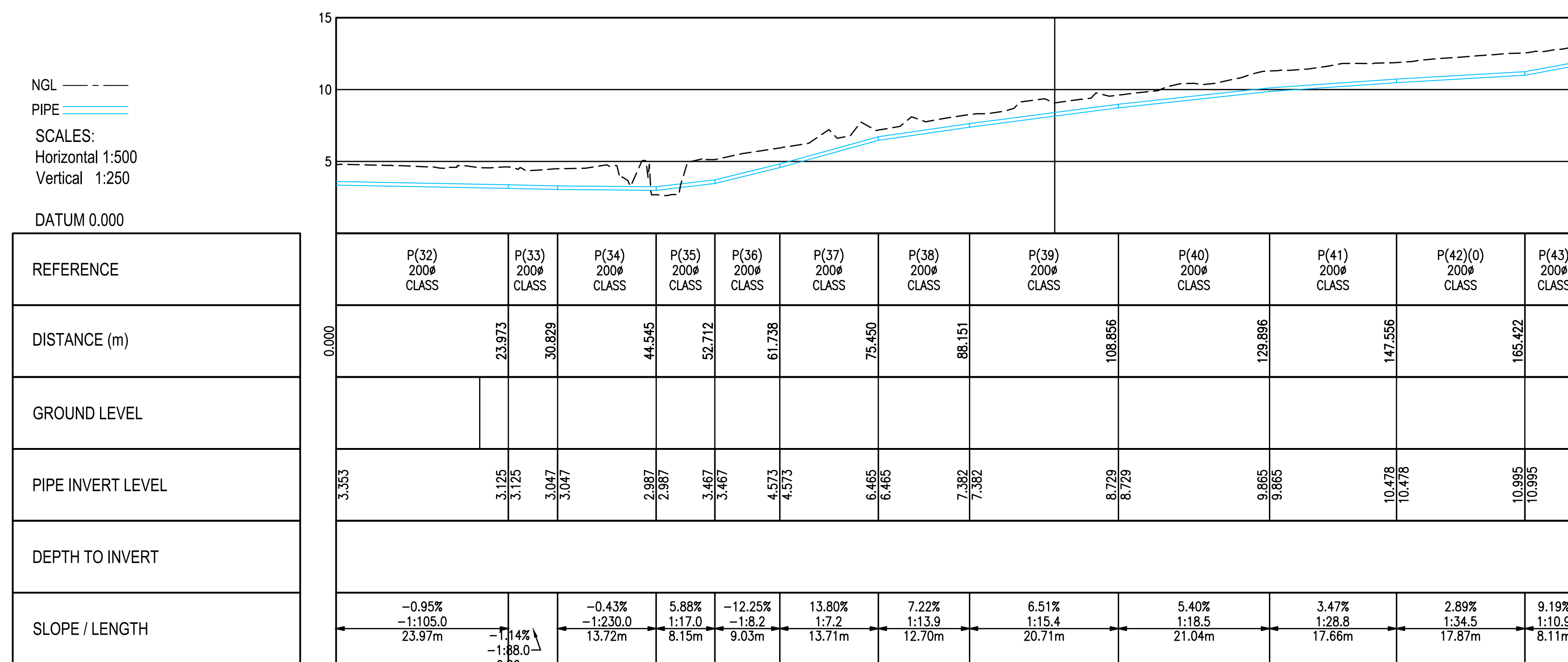
TABLE 2 - PIPE FITTING SCHEDULE							
MAR K	DESCRIPTION	COUNT	SIZE	MATERIAL	LINING	COATING	PRESSURE CLASS
	<varies>	21	80 mmø-80 mmø	STAINLESS STEEL	<varies>	<varies>	<varies>
	<varies>	7	100 mmø-100 mmø	STAINLESS STEEL	EPOXY	<varies>	
		10	125 mmø-80 mmø	STAINLESS STEEL	EPOXY		
	<varies>	24	150 mmø-150 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
	<varies>	17	200 mmø-200 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
	STAINLESS STEEL STANDARD REDUCER FLANGED AT BOTH ENDS	2	300 mmø-25 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
	FLANGE WELDED TO PIPE OR FITTING	6	300 mmø-300 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
		2	300 mmø-300 mmø-300 mmø				
7	uPVC ELBOW FITTING	4	80 mmø-80 mmø	STAINLESS STEEL	-	-	CHARCOAL GREY
9	STAINLESS STEEL STANDARD REDUCER FLANGED AT BOTH ENDS	1	100 mmø-80 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
11	STAINLESS STEEL ELBOW FLANGED AT BOTH ENDS	5	80 mmø-80 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
11	STAINLESS STEEL ELBOW FLANGED AT BOTH ENDS	4	150 mmø-150 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
11	STAINLESS STEEL ELBOW FLANGED AT BOTH ENDS	6	200 mmø-200 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
11	STAINLESS STEEL ELBOW FLANGED AT BOTH ENDS	2	300 mmø-300 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
12	STAINLESS STEEL ELBOW FLANGED AT BOTH ENDS	4	25 mmø-25 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
12	STAINLESS STEEL ELBOW FLANGED AT BOTH ENDS	6	300 mmø-300 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
13	STAINLESS STEEL TEE FLANGED AT BOTH ENDS	1	80 mmø-80 mmø-80 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
13	STAINLESS STEEL TEE FLANGED AT BOTH ENDS	2	150 mmø-150 mmø-100 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
13	STAINLESS STEEL TEE FLANGED AT BOTH ENDS	2	200 mmø-200 mmø-200 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
14	STAINLESS STEEL STANDARD REDUCER FLANGED AT BOTH ENDS	2	100 mmø-80 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
14	STAINLESS STEEL STANDARD REDUCER FLANGED AT BOTH ENDS	2	200 mmø-150 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE
14	STAINLESS STEEL STANDARD REDUCER FLANGED AT BOTH ENDS	2	300 mmø-150 mmø	STAINLESS STEEL	EPOXY	EPOXY	BLUE

Grand total: 132

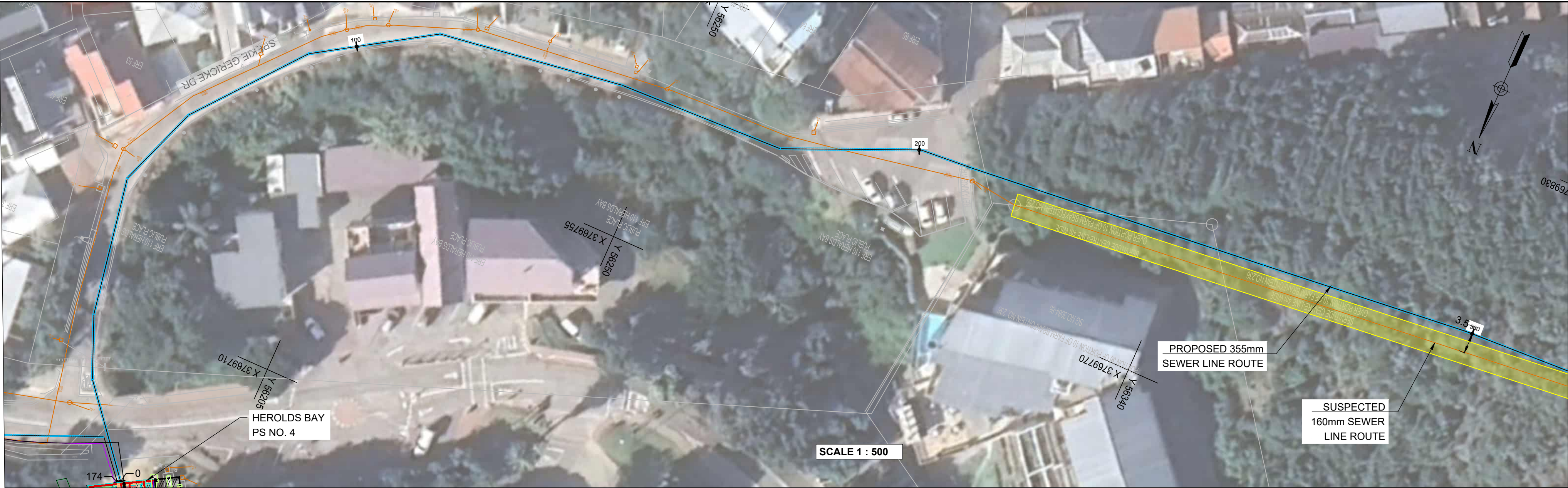
Annexure C Rising Main Drawings



SEWER RISING MAIN PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
P(32)	250 mm	24.0 m	-0.95%	uPVC
P(33)	250 mm	6.9 m	-1.14%	uPVC
P(34)	250 mm	13.7 m	-0.43%	uPVC
P(35)	250 mm	8.2 m	5.88%	uPVC
P(36)	250 mm	9.0 m	-12.25%	uPVC
P(37)	250 mm	13.7 m	13.80%	uPVC
P(38)	250 mm	12.7 m	7.22%	uPVC
P(39)	250 mm	20.7 m	6.51%	uPVC
P(40)	250 mm	21.0 m	5.40%	uPVC
P(41)	250 mm	17.7 m	3.47%	uPVC
P(42)(0)	250 mm	17.9 m	2.89%	uPVC
P(43)	250 mm	8.1 m	9.19%	uPVC

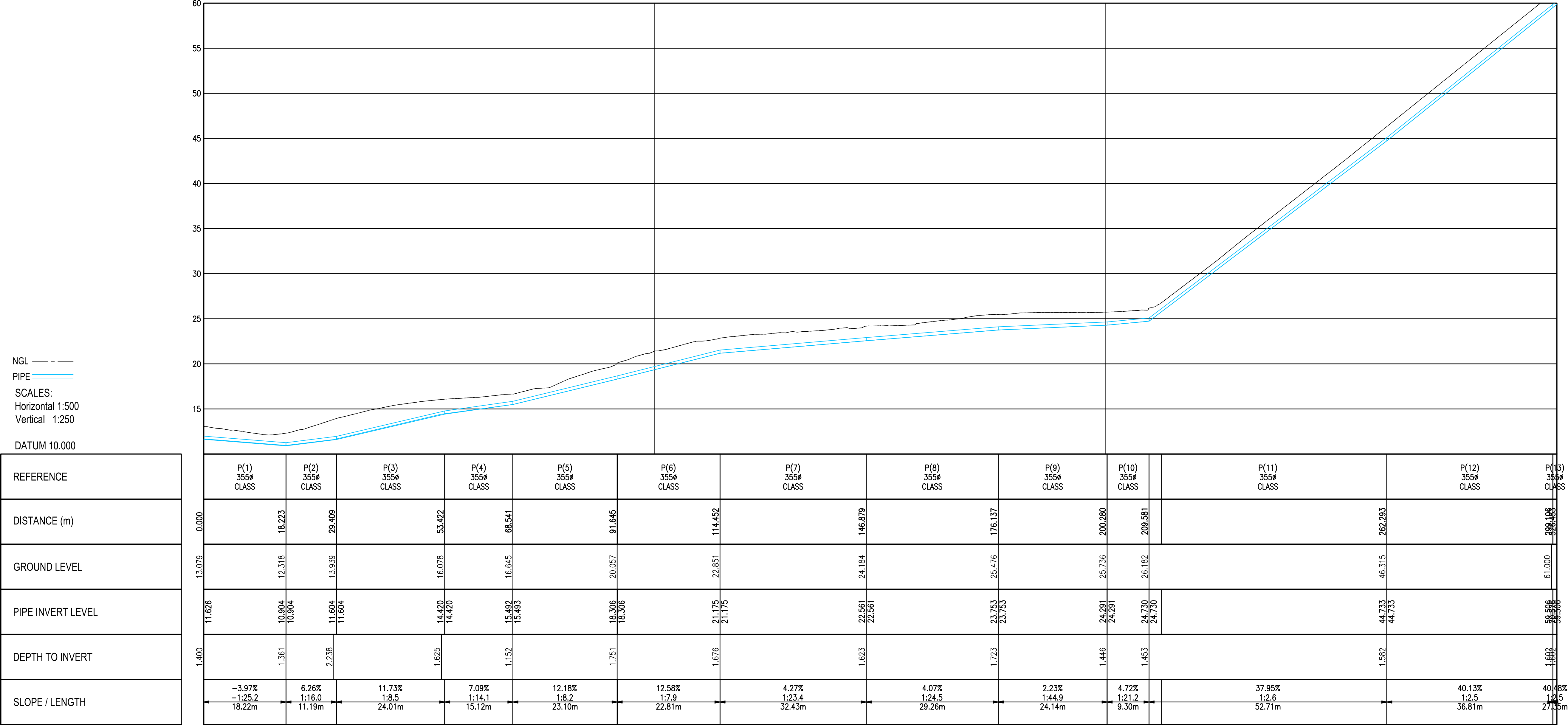


REVISIONS					DESIGNED	T CRONJE	SIGNED	 an ERM company	 THE CITY FOR ALL REASONS	SIGNED	George Municipality	Upgrading of Herolds Bay Pumpstation	SIZE A1 SCALE AS SHOWN PROJECT DRAWING NUMBER C1936 - 520 - 001 REV OB SHEET No. 01 OF 05		
					CHECKED	J HOUGH								DATE	
					DRAWN	M GQWETHA									
	0B	07-07-2023	FOR DISCUSSION	WA	CHECKED	W ANNANDALE									
	NO.	DATE	DESCRIPTION	INITIAL											Sewer Rising Main From Herolds Bay PS No. 1 to Herolds Bay PS No. 4 SV 0 to SV 171



SEWER RISING MAIN PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
P(1)	355 mm	18.2 m	-3.97%	uPVC
P(2)	355 mm	11.2 m	6.26%	uPVC
P(3)	355 mm	24.0 m	11.73%	uPVC
P(4)	355 mm	15.1 m	7.09%	uPVC
P(5)	355 mm	23.1 m	12.18%	uPVC
P(6)	355 mm	22.8 m	12.58%	uPVC
P(7)	355 mm	32.4 m	4.27%	uPVC
P(8)	355 mm	29.3 m	4.07%	uPVC
P(9)	355 mm	24.1 m	2.23%	uPVC
P(10)	355 mm	9.3 m	4.72%	uPVC
P(11)	355 mm	52.7 m	37.95%	uPVC
P(12)	355 mm	36.8 m	40.13%	uPVC
P(13)	355 mm	27.3 m	40.48%	uPVC

NOTE:
1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND. REFER ANY DISCREPANCIES TO THE ENGINEER.



LEGEND:

FIRE HYDRANT MARKER

TREE

GATE

LAMP POLE

WATER METER/WATER VALVES

TELEPHONE POLE

ROCK OUTCROP

BENCHMARK

ELECTRICITY BOX

EXISTING SEWERLINE

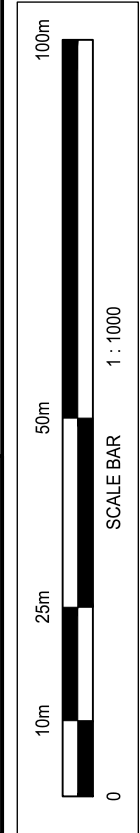
EXISTING MANHOLE

EXISTING MANHOLE

STORMWATER

PROPOSED RISING PIPELINE

SERVITUDE 4m WIDE



DESIGNED
T CRONJE

CHECKED
J HOUGH

DRAWN
M GQWETHA

CHECKED
W ANNANDALE

SIGNED
SMEC South Africa

DATE

an es company
PO Box 10633
George 6530
e-mail: george@smec.com
website: www.smec.com

13 Progress St
George 6529
Tel (044) 873-5029
Fax (044) 873-5086

THE CITY FOR ALL REASONS
PO Box 19
George 6530
e-mail: civilinfo@george.org.za
website: www.george.org.za

c/o York & Market Street
George 6530
Tel (044) 801 9496
Fax (086) 629 9872

SIGNED
George Municipality

DATE

Upgrading of Herolds Bay Pumpstation

Sewer Rising Main from Herolds Bay PS No. 4 to Existing WWTW SV 0 to SV 300

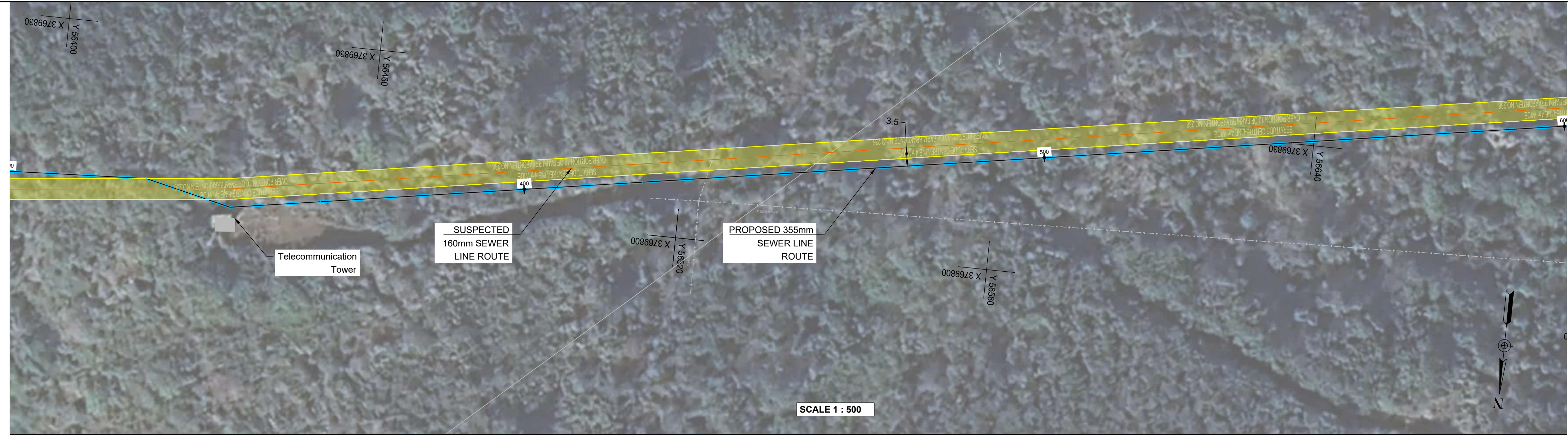
SIZE
A1

SCALE
AS SHOWN

PROJECT DRAWING NUMBER
C1936 - 520 - 002

REV
OB

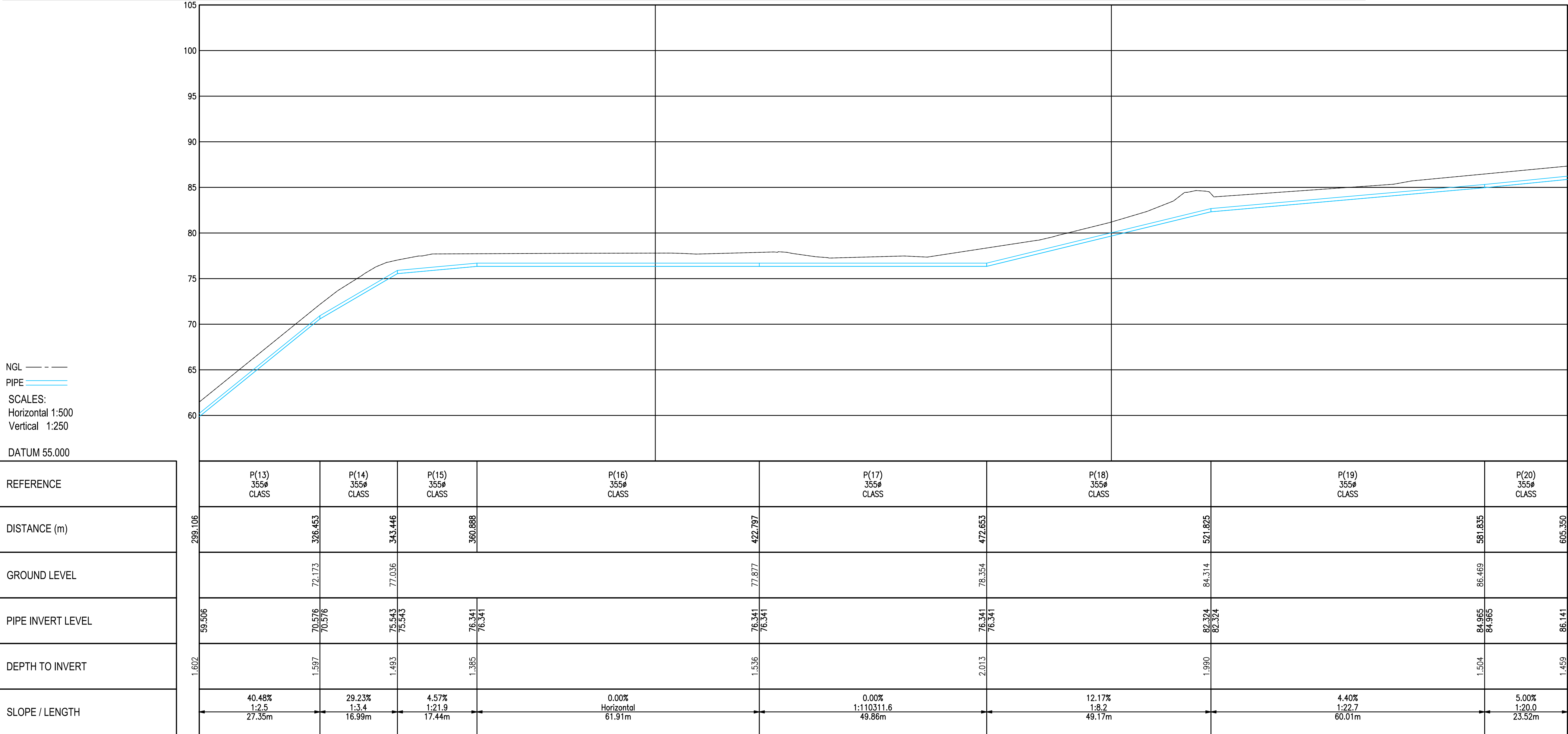
SHEET No.
02 OF 05



NOTE:
1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND. REFER ANY DISCREPANCIES TO THE ENGINEER.

SEWER RISING MAIN PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
P(13)	355 mm	27.3 m	40.48%	uPVC
P(14)	355 mm	17.0 m	29.23%	uPVC
P(15)	355 mm	17.4 m	4.57%	uPVC
P(16)	355 mm	61.9 m	0.00%	uPVC
P(17)	355 mm	49.9 m	0.00%	uPVC
P(18)	355 mm	49.2 m	12.17%	uPVC
P(19)	355 mm	60.0 m	4.40%	uPVC
P(20)	355 mm	23.5 m	5.00%	uPVC



LEGEND:

- FIRE HYDRANT MARKER
- TREE
- GATE
- LAMP POLE
- WATER METER WATER VALVES
- TELEPHONE POLE
- ROCK OUTCROP
- BENCH MARKS
- ELECTRICITY BOX
- EXISTING SEWERLINE
- EXISTING MANHOLE
- EXISTING MANHOLE
- STORMWATER
- PROPOSED RISING PIPELINE
- SERVITUDE 4m WIDE

LONGSECTION PROPOSED RISING MAIN 2
FROM 300.000 TO 600.000

REVISIONS

NO.	DATE	DESCRIPTION	INITIAL
0B	07-07-2023	FOR DISCUSSION	WA

DESIGNED	T CRONJE
CHECKED	J HOUGH
DRAWN	M GQWETHA
CHECKED	W ANNANDALE

SIGNED	SMEC South Africa
DATE	

PO Box 10633
George 6530
e-mail: george@smec.com
website: www.smec.com

13 Progress St
George 6529
Tel (044) 873-5029
Fax (044) 873-5086

PO Box 19
George 6530
e-mail: civilinfo@george.org.za
website: www.george.org.za

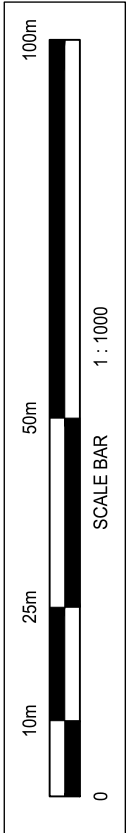
c/o York & Market Street
George 6530
Tel (044) 801 9496
Fax (086) 629 9872

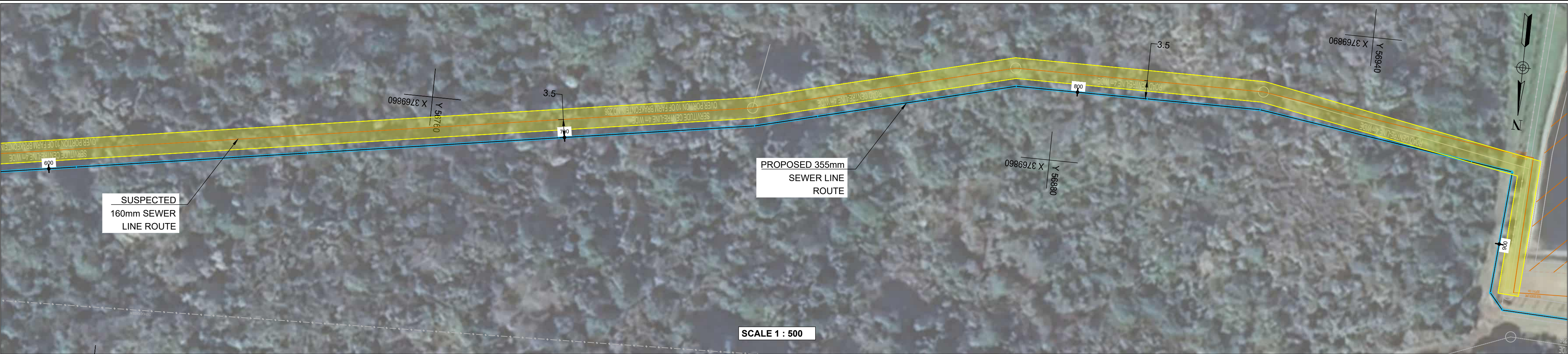
SIGNED	George Municipality
DATE	

Upgrading of Herolds Bay Pumpstation

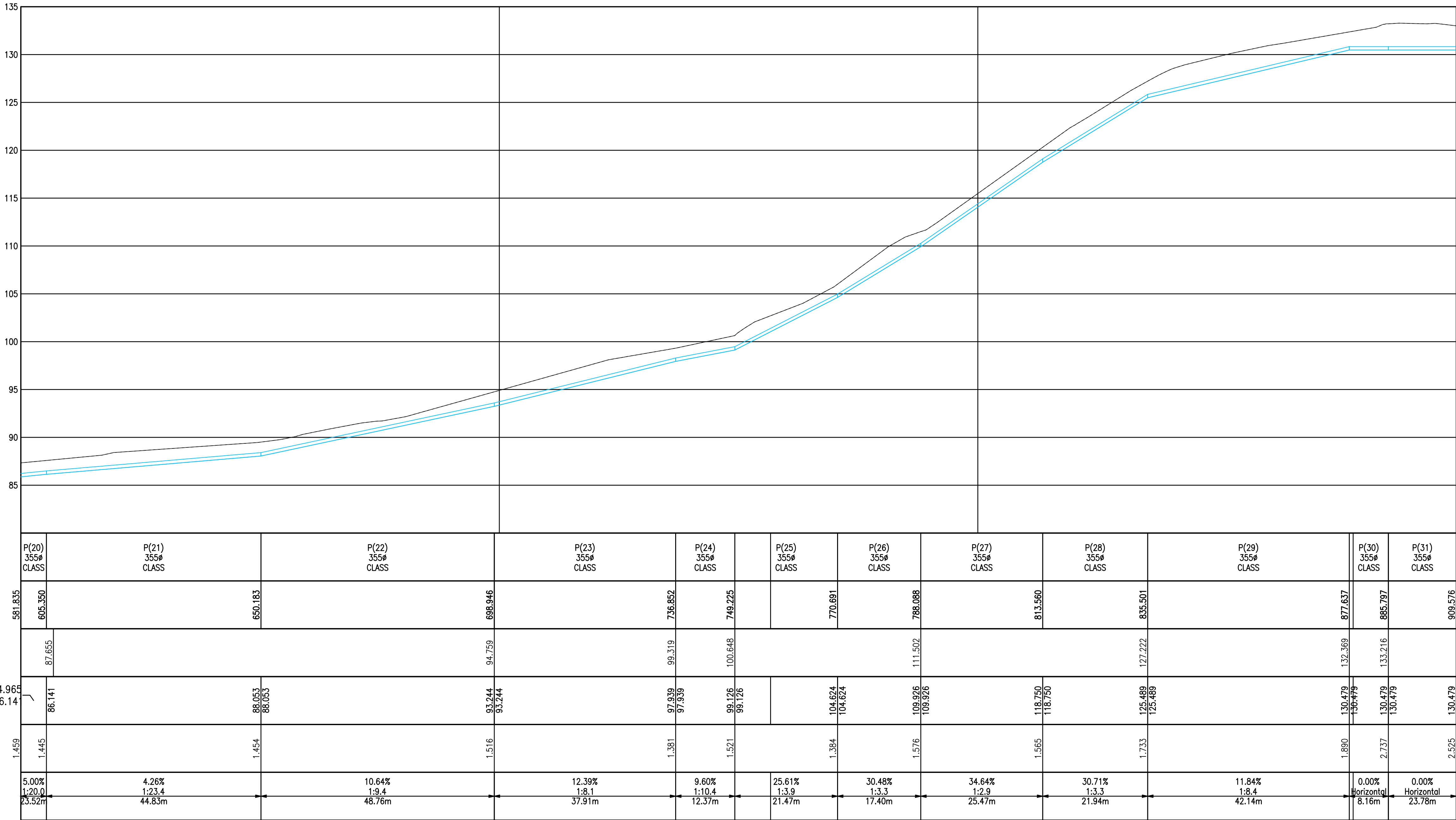
Sewer Rising Main from Herolds Bay PS No. 4 to Existing WWTW SV 300 to SV 600

SIZE	A1
SCALE	AS SHOWN
PROJECT DRAWING NUMBER	
C1936 - 520 - 003	
REV	OB
SHEET No.	
03 OF 05	





SEWER RISING MAIN PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
P(20)	355 mm	23.5 m	5.00%	uPVC
P(21)	355 mm	44.8 m	4.26%	uPVC
P(22)	355 mm	48.8 m	10.64%	uPVC
P(23)	355 mm	37.9 m	12.39%	uPVC
P(24)	355 mm	12.4 m	9.60%	uPVC
P(25)	355 mm	21.5 m	25.61%	uPVC
P(26)	355 mm	17.4 m	30.48%	uPVC
P(27)	355 mm	25.5 m	34.64%	uPVC
P(28)	355 mm	21.9 m	30.71%	uPVC
P(29)	355 mm	42.1 m	11.84%	uPVC
P(30)	355 mm	8.2 m	0.00%	uPVC



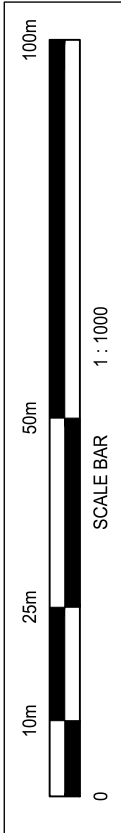
LEGEND:	
	FIRE HYDRANT MARKER
	TREE
	GATE
	LAMP POLE
	WATER METER/WATER VALVES
	TELEPHONE POLE
	ROCK OUTCROP
	BENCHMARK
	ELECTRICITY BOX
	EXISTING SEWERLINE
	EXISTING MANHOLE
	EXISTING MANHOLE
	STORMWATER
	PROPOSED RISING PIPELINE
	SERVITUDE 4m WIDE
	EMERGENCY STORAGE TANK

LONGSECTION PROPOSED RISING MAIN 2
FROM 600.000 TO 900.000

NOTE:
1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY
WORK IS PUT IN HAND. REFER ANY DISCREPANCIES TO THE
ENGINEER.

FOR
DISCUSSION

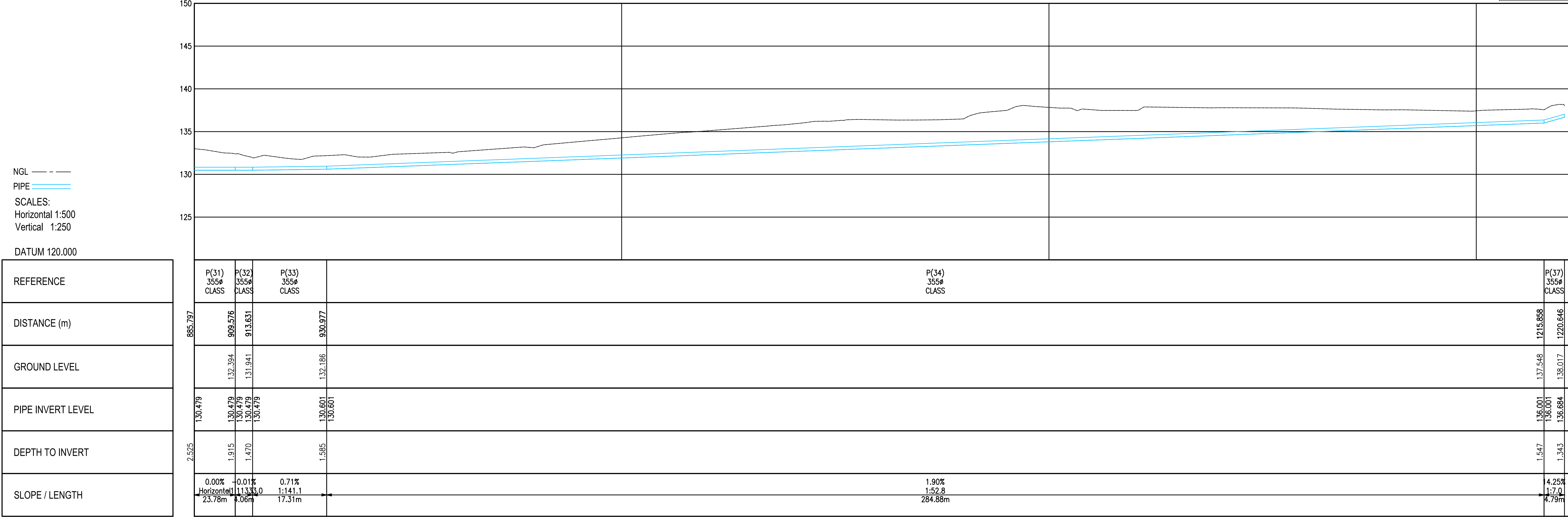
REVISIONS					DESIGNED	T CRONJE	SIGNED	 an  company	 THE CITY FOR ALL REASONS	PO Box 10633 George 6530	13 Progress St George 6529	PO Box 19 George 6530	c/o York & Market Street George 6530	SIGNED	George Municipality	DATE		Upgrading of Herolds Bay Pumpstation		PROJECT DRAWING NUMBER C1936 - 520 - 004		REV OB		SHEET No. 04 OF 05															
					CHECKED	J HOUGH																																	
					DRAWN	M GQWETHA																																	
	0B	07-07-2023	FOR DISCUSSION		WA																																		
	NO.	DATE	DESCRIPTION		INITIAL	CHECKED																					W ANNANDALE	DATE											





SEWER RISING MAIN PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
P(31)	355 mm	23.8 m	0.00%	uPVC
P(32)	355 mm	4.1 m	-0.01%	uPVC
P(33)	355 mm	17.3 m	0.71%	uPVC
P(34)	355 mm	284.9 m	1.90%	uPVC
P(37)	355 mm	4.8 m	14.25%	uPVC

LEGEND:	
	FIRE HYDRANT MARKER
	TREE
	GATE
	LAMP POLE
	WATER METER/WATER VALVES
	TELEPHONE POLE
	ROCK OUTCROP
	BENCH MARKS
	ELECTRICITY BOX
	EXISTING SEWERLINE
	EXISTING MANHOLE
	EXISTING MANHOLE
	STORMWATER
	PROPOSED RISING PIPELINE
	SERVITUDE 4m WIDE
	EMERGENCY STORAGE TANK



LONGSECTION PROPOSED RISING MAIN 2
FROM 900.000 TO 1221.608

NOTE:
1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY
WORK IS PUT IN HAND. REFER ANY DISCREPANCIES TO THE
ENGINEER.

FOR
DISCUSSION

REVISIONS					DESIGNED	B BARTLETT	SIGNED	 an esr company		SIGNED	George Municipality	Upgrading of Herolds Bay Pumpstation	SIZE A1	SCALE AS SHOWN	PROJECT DRAWING NUMBER C1936 - 520 - 005	REV AB	SHEET No. 05 OF 05		
					CHECKED	J HOUGH												DATE	SMEC South Africa
					DRAWN	M GQWETHA													
	0B	07-07-2023	FOR DISCUSSION		WA														
	NO.	DATE	DESCRIPTION		INITIAL	CHECKED	W ANNANDALE					Sewer Rising Main From Herolds Bay PS No. 4 to Exisiting WWTW SV 900 to SV 1227							
								PO Box 10633 George 6530	13 Progress St George 6529	PO Box 19 George 6530	c/o York & Market Street George 6530								
								e-mail: george@smec.com website: www.smec.com	Tel (044) 873-5029 Fax (044) 873-5086	e-mail: civilinfo@george.org.za website: www.george.org.za	Tel (044) 801 9496 Fax (086) 629 9872								

