

ACTON WATERFRONT PARK ACTON, ACT

WATER FEATURE WORKS - HYDRAULIC, FILTRATION, TREATMENT AND ELECTRICAL CONTROL

DRAWING NO	REVISION	DATE	DRAWING TITLE
AWP.WF2112.000	A	25/05/23	COVER SHEET
AWP.WF2112.100	B	25/05/23	WATER-PLAY GENERAL ARRANGEMENT
AWP.WF2112.101	A	25/05/23	WATER-PLAY STRUCTURAL SLAB EXTENT
AWP.WF2112.102	A	25/05/23	JETS PIPE WORK LAYOUT
AWP.WF2112.103	A	25/05/23	WATER-PLAY EQUIPMENT WATER SUPPLY
AWP.WF2112.104	B	25/05/23	HYDRAULIC PLANT ROOM GENERAL ARRANGEMENT
AWP.WF2112.200	B	25/05/23	WATER FEATURE PLANT ROOM LAYOUT
AWP.WF2112.201	B	25/05/23	WATER FEATURE PLANT ROOM SECTION A
AWP.WF2112.202	A	25/05/23	WATER FEATURE PLANT ROOM SECTION B
AWP.WF2112.203	A	25/05/23	WATER FEATURE PLANT ROOM SECTION C
AWP.WF2112.300	A	25/05/23	WATER FEATURE SECTION DETAILS
AWP.WF2112.301	A	25/05/23	WATER FEATURE SECTION DETAILS
AWP.WF2112.302	A	25/05/23	WATER FEATURE PLAYGROUND EQUIPMENT DETAILS
AWP.WF2112.303	A	25/05/23	WATER FEATURE PLAYGROUND EQUIPMENT DETAILS
AWP.WF2112.304	A	25/05/23	WATER FEATURE PLAYGROUND EQUIPMENT DETAILS
AWP.WF2112.400	A	25/05/23	WATER FEATURE DESIGN SCHEDULE
AWP.WF2112.401	A	25/05/23	WATER FEATURE HYDRAULIC SCHEMATICS
AWP.WF2112.402	A	25/05/23	WATER FEATURE CONTROL PROFESSION AND LOGIC



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REV	DESCRIPTION	DATE
A	DESIGN DOCUMENTATION - COORDINATION ISSUE	25/05/2023

PROJECT
ACTON WATERFRONT PARK
ACTON, ACT
 WATER FEATURE WORKS



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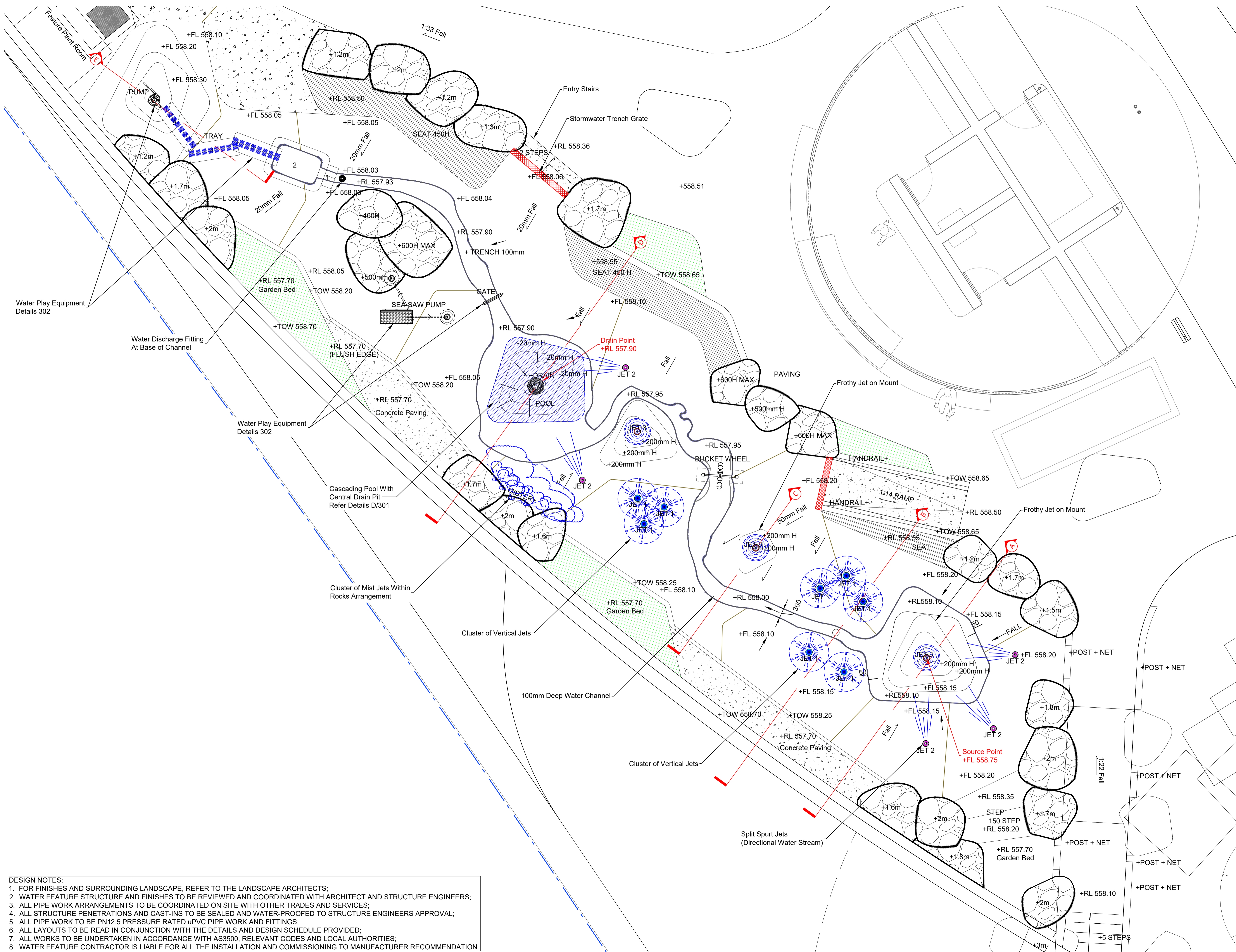
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 Supervisor Certificate # 598895

Date	07/12/2022	Scale	NTS @ A1
Designed	S.Salem	Drawn	A.L.

Sheet Title
COVER SHEET

Sheet No.	AWP.WF2112.000	Rev.	A
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DESIGN NOTES:

- FOR FINISHES AND SURROUNDING LANDSCAPE, REFER TO THE LANDSCAPE ARCHITECTS;
- WATER FEATURE STRUCTURE AND FINISHES TO BE REVIEWED AND COORDINATED WITH ARCHITECT AND STRUCTURE ENGINEERS;
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ACTON WATERFRONT PARK
ACTON, ACT

WATER FEATURE WORKS

CLIENT:
ACT Government
CITY RENEWAL AUTHORITY

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Sheet Title:
WATERPLAY LAYOUT

Sheet No.: AWP.WF2112.100 Rev: B



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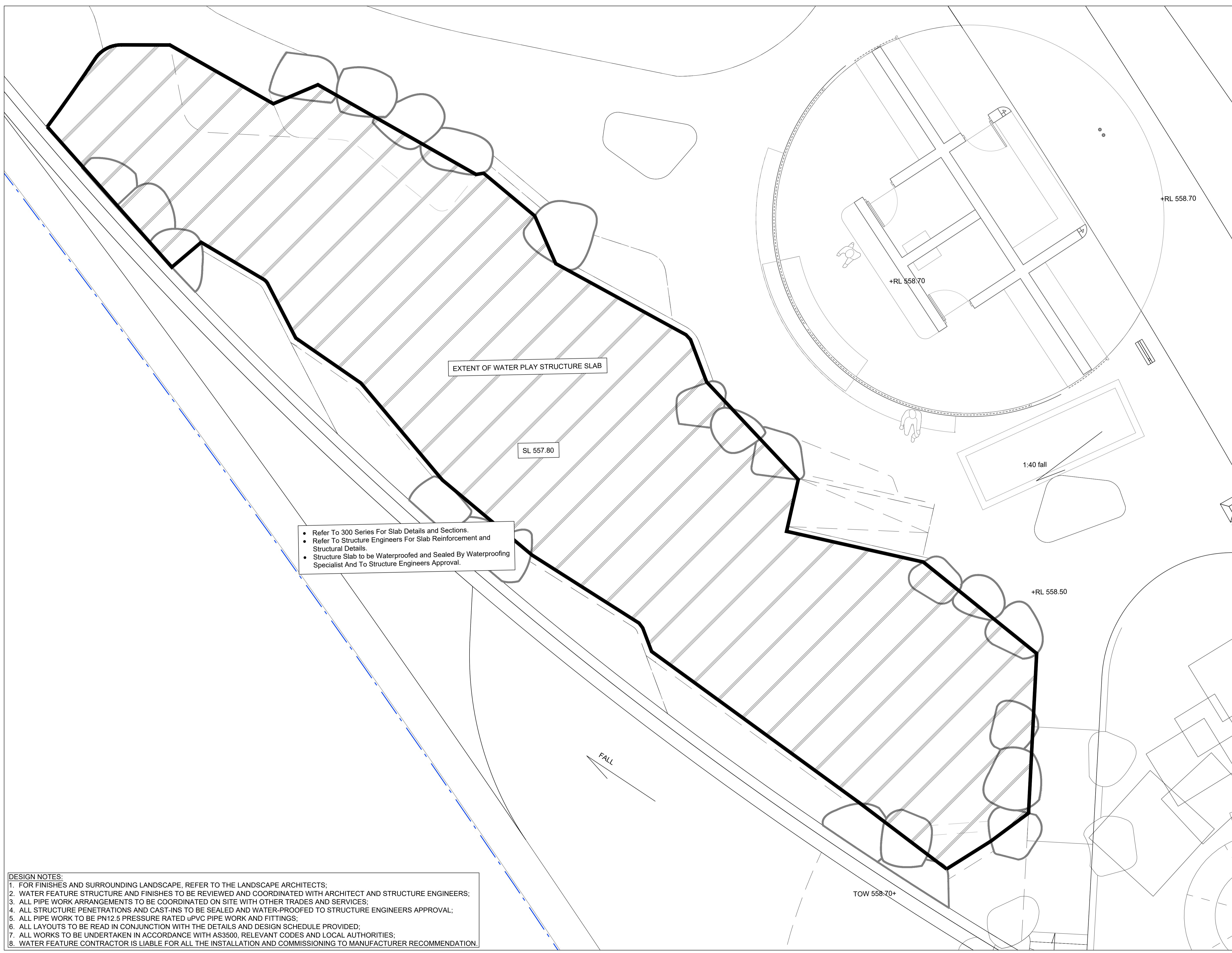
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Date: 07/12/2022 Scale: 1:50 @ A1
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 Sheet Title:
WATERPLAY STRUCTURE SLAB
 Sheet No.: AWP.WF2112.101 Rev: A

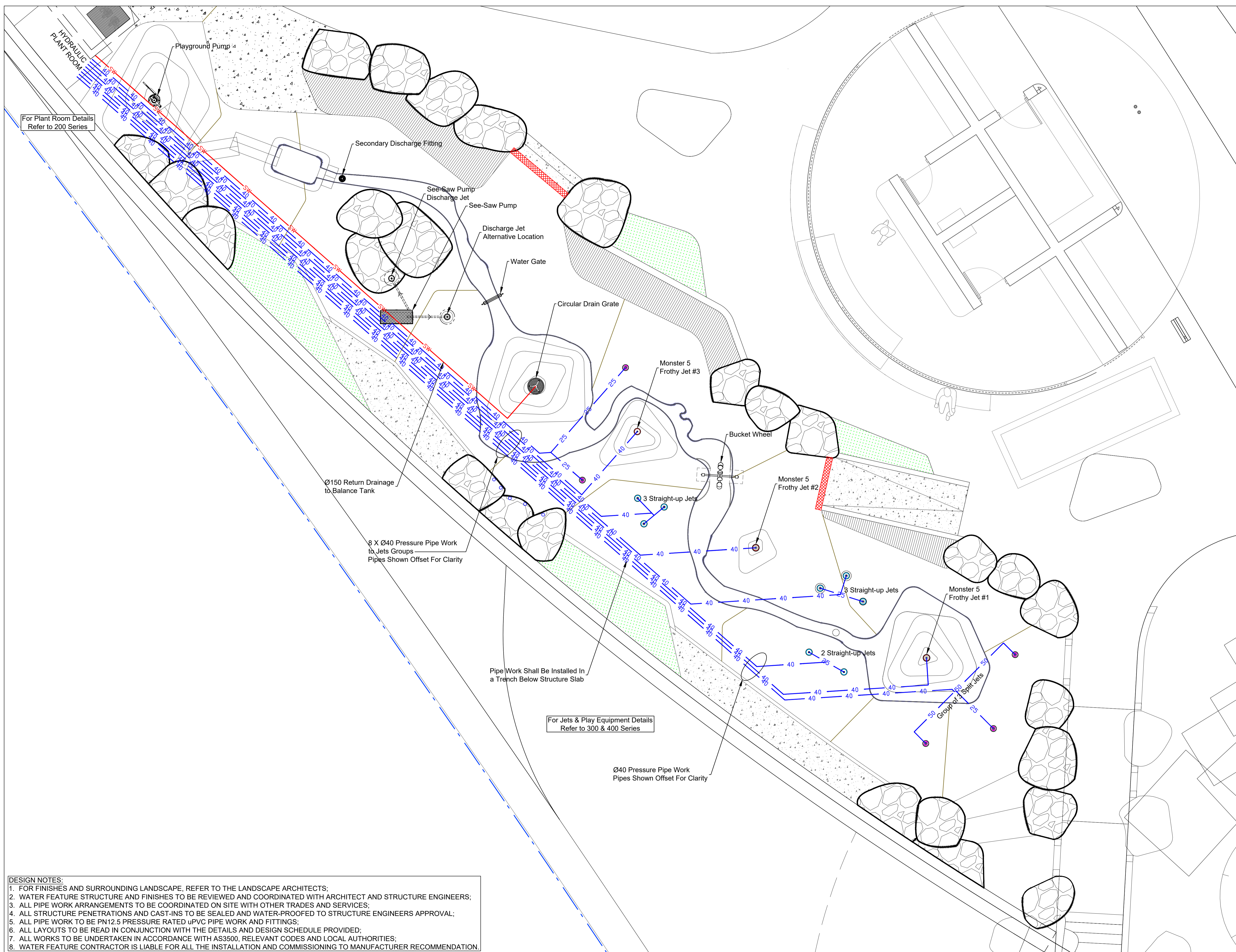


EXTENT OF WATER PLAY STRUCTURE SLAB

SL 557.80

- Refer To 300 Series For Slab Details and Sections.
- Refer To Structure Engineers For Slab Reinforcement and Structural Details.
- Structure Slab to be Waterproofed and Sealed By Waterproofing Specialist And To Structure Engineers Approval.

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For Plant Room Details Refer to 200 Series

Ø150 Return Drainage to Balance Tank

8 X Ø40 Pressure Pipe Work to Jets Groups Pipes Shown Offset For Clarity

Pipe Work Shall Be Installed In a Trench Below Structure Slab

For Jets & Play Equipment Details Refer to 300 & 400 Series

Ø40 Pressure Pipe Work Pipes Shown Offset For Clarity

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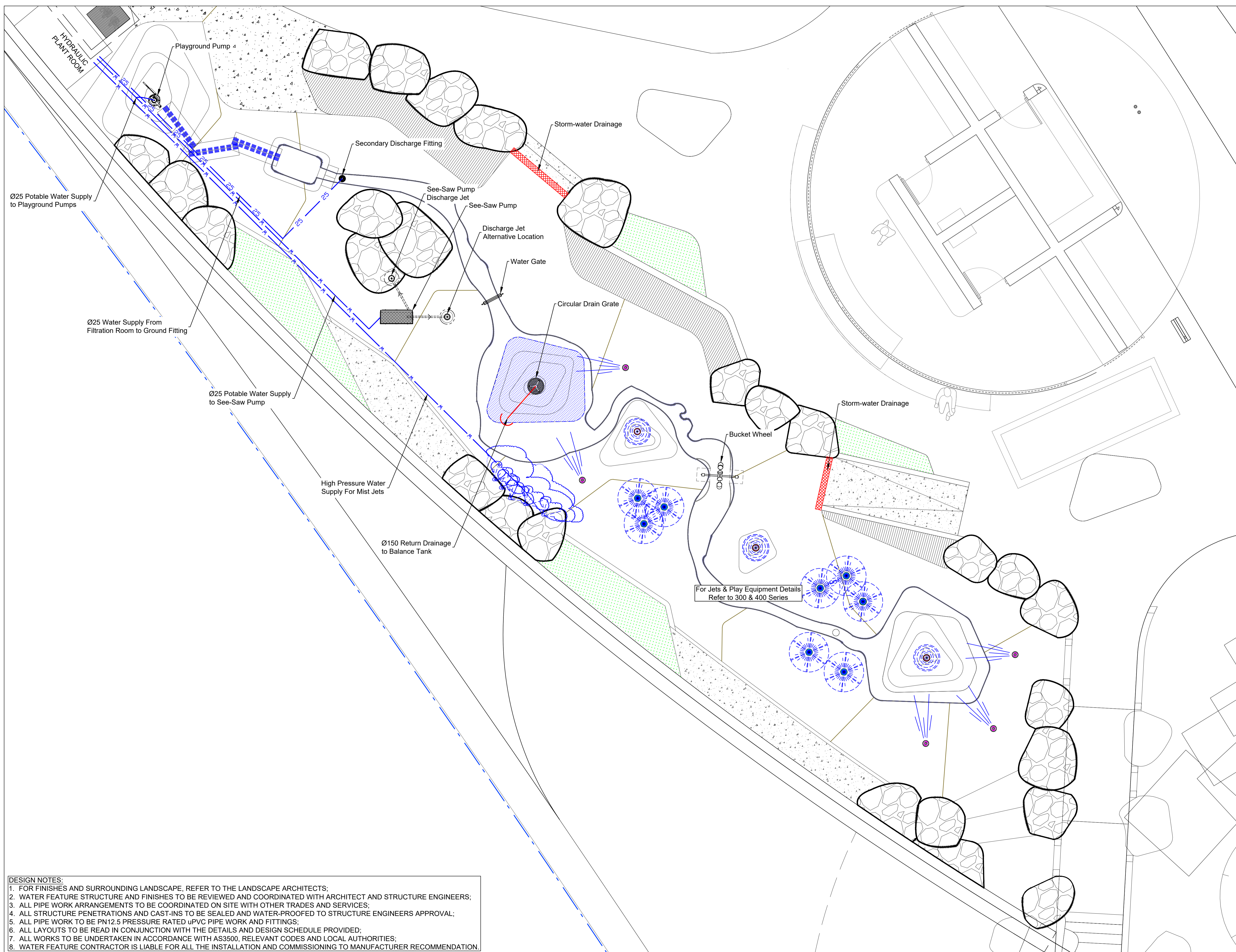
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Sheet Title
JETS PIPEWORK LAYOUT
 Sheet No: AWP.WF2112.102 Rev: A



DESIGN NOTES:

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ACTON, ACT
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 **ACT** Government
 **CITY RENEWAL AUTHORITY**

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Sheet Title
PLAY EQUIPMENT SUPPLY
 Sheet No: AWP.WF2112.103 Rev: A



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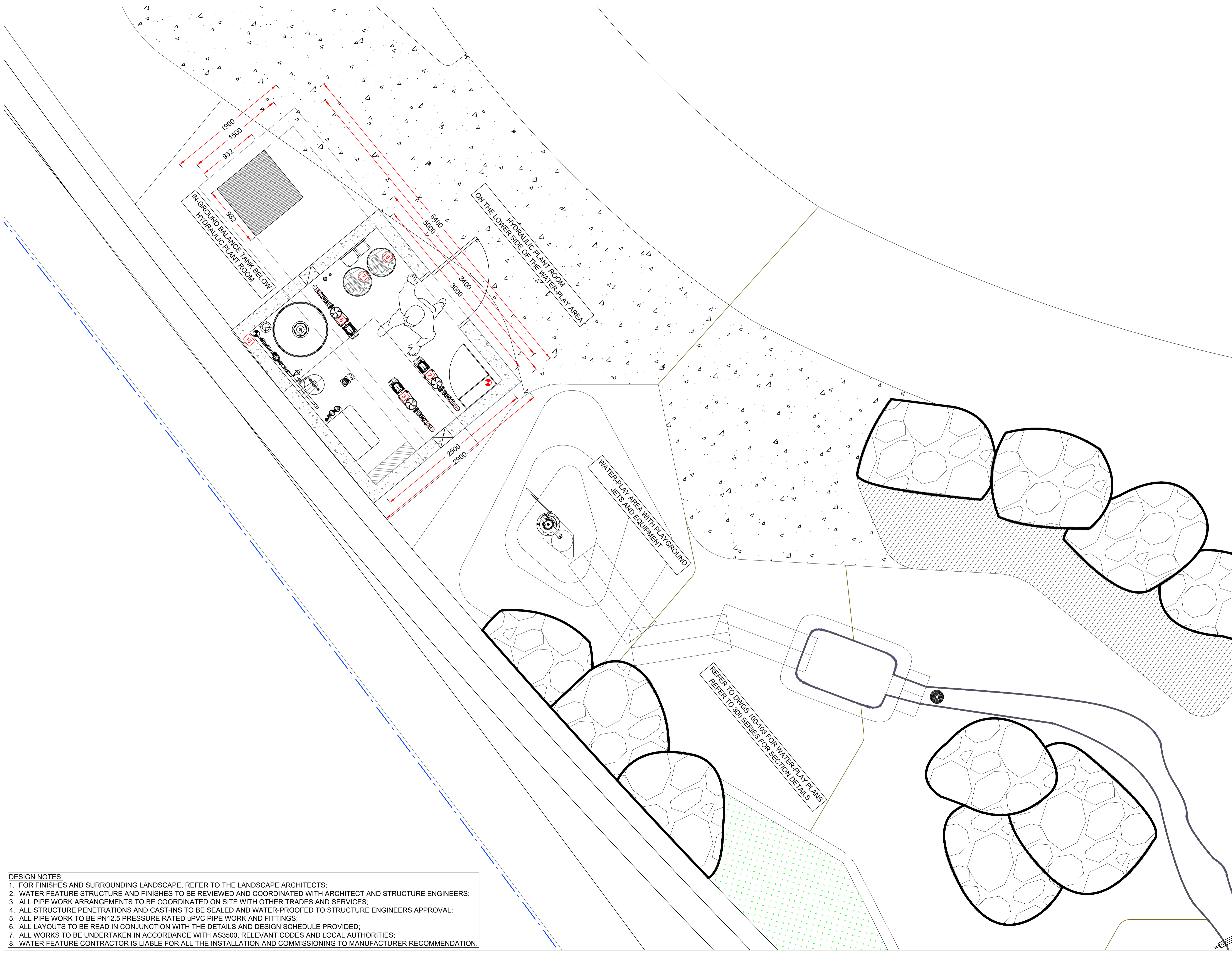
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 Designed: S.Salem Drawn: A.L.

Sheet Title
HYDRAULIC PLANT ROOM GA
 Sheet No: AWP.WF2112.104 Rev: B



DESIGN NOTES:

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CITY RENEWAL AUTHORITY

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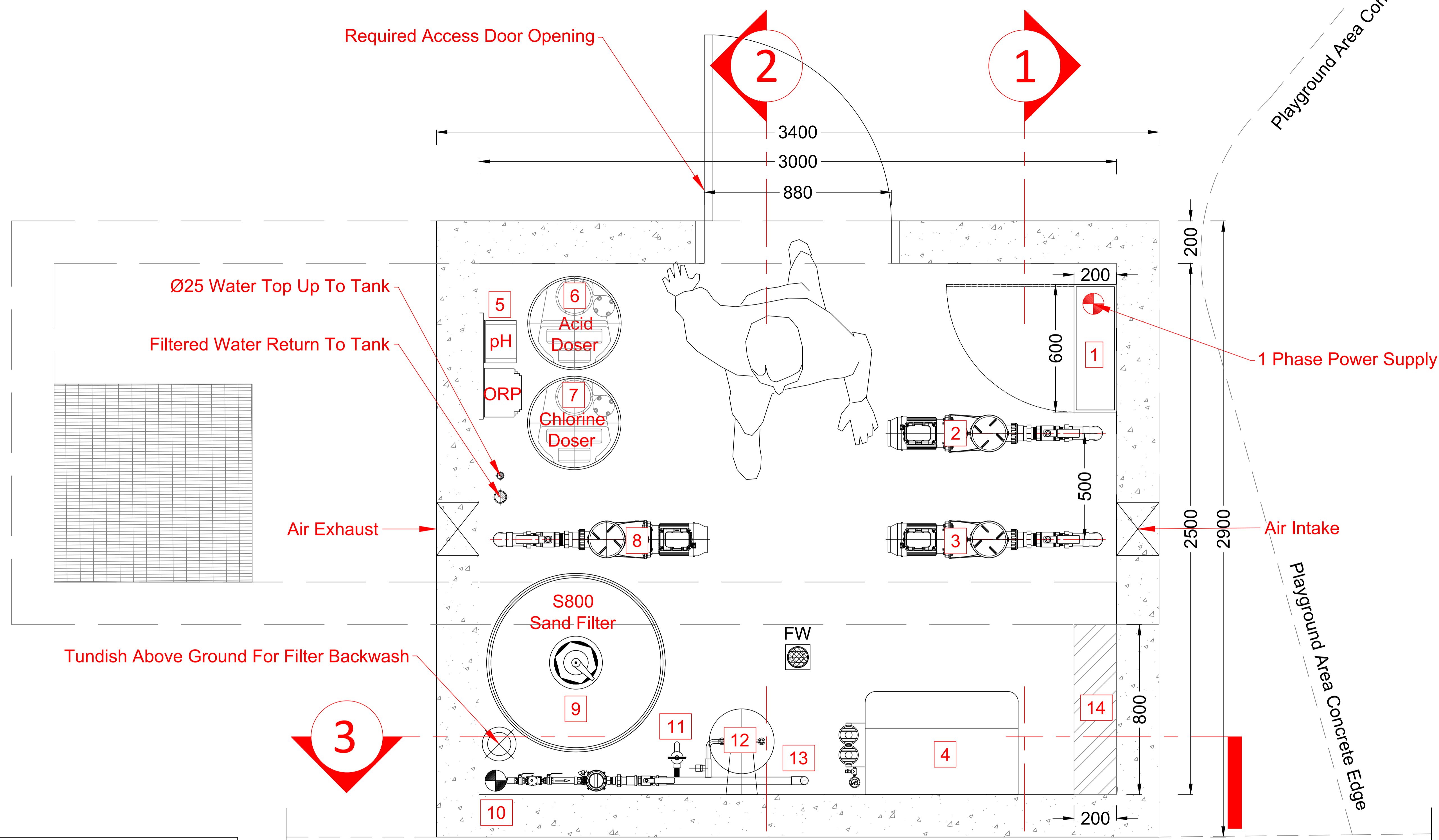
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 Signature: _____ Date: 07.12.2022
 Supervisor Certificate # 598895

Date: 07/12/2022 Scale: 1:10 @ A1
 Designed: S.Salem Drawn: A.L.

Sheet Title
PLANT ROOM PLAN
 Sheet No: AWP.WF2112.200 Rev: B

Required Access Door Opening



- LEGEND:**
1. Pumps PLC Control Panel
 2. Feature Pump #1
 3. Feature Pump #2
 4. Mist Pump
 5. ORP/pH Control
 6. Acid Tank With Dosing Pump
 7. Chlorine Tank With Dosing Pump
 8. Filtration Pump
 9. Sand Filter
 10. Ø32 Potable Water Supply
 11. Ø20 Hose Cock
 12. Wall Mounted S.Steel Eye Wash
 13. Potable Water Top-up Assembly
 14. Water Feature Pipe Zone

WATER FEATURE HYDRAULIC PLANT ROOM
 PLAN
 Scale 1:10

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Playground Area Concrete

Playground Area Concrete Edge

Site Retaining Wall - Refer to Landscape Plans



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LEGEND

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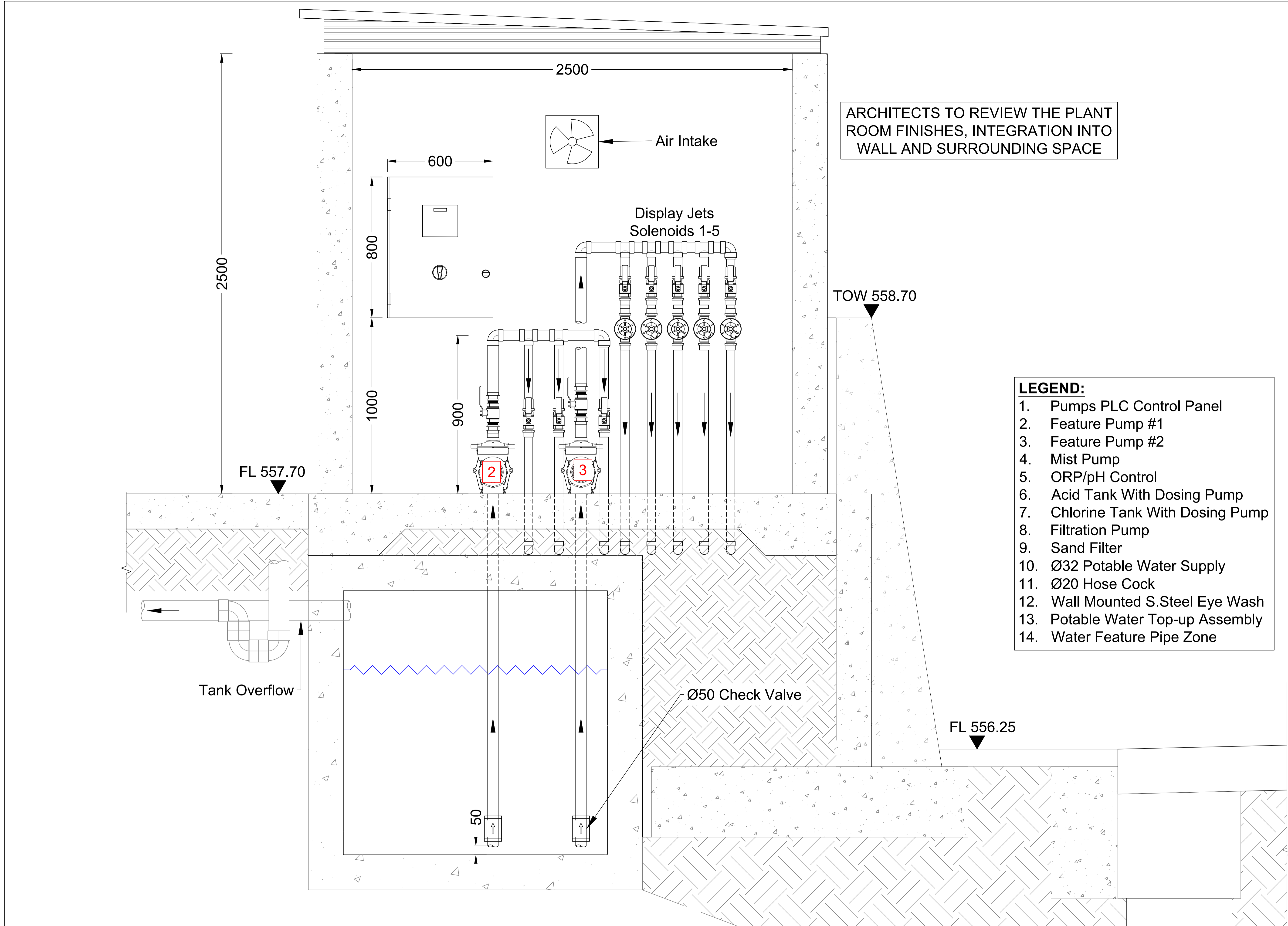
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Sheet Title
PLANT ROOM SECTIONS
 Sheet No: AWP.WF2112.201 Rev: B



ARCHITECTS TO REVIEW THE PLANT ROOM FINISHES, INTEGRATION INTO WALL AND SURROUNDING SPACE

1 HYDRAULIC PLANT ROOM SECTION
 Scale 1:10

- DESIGN NOTES:**
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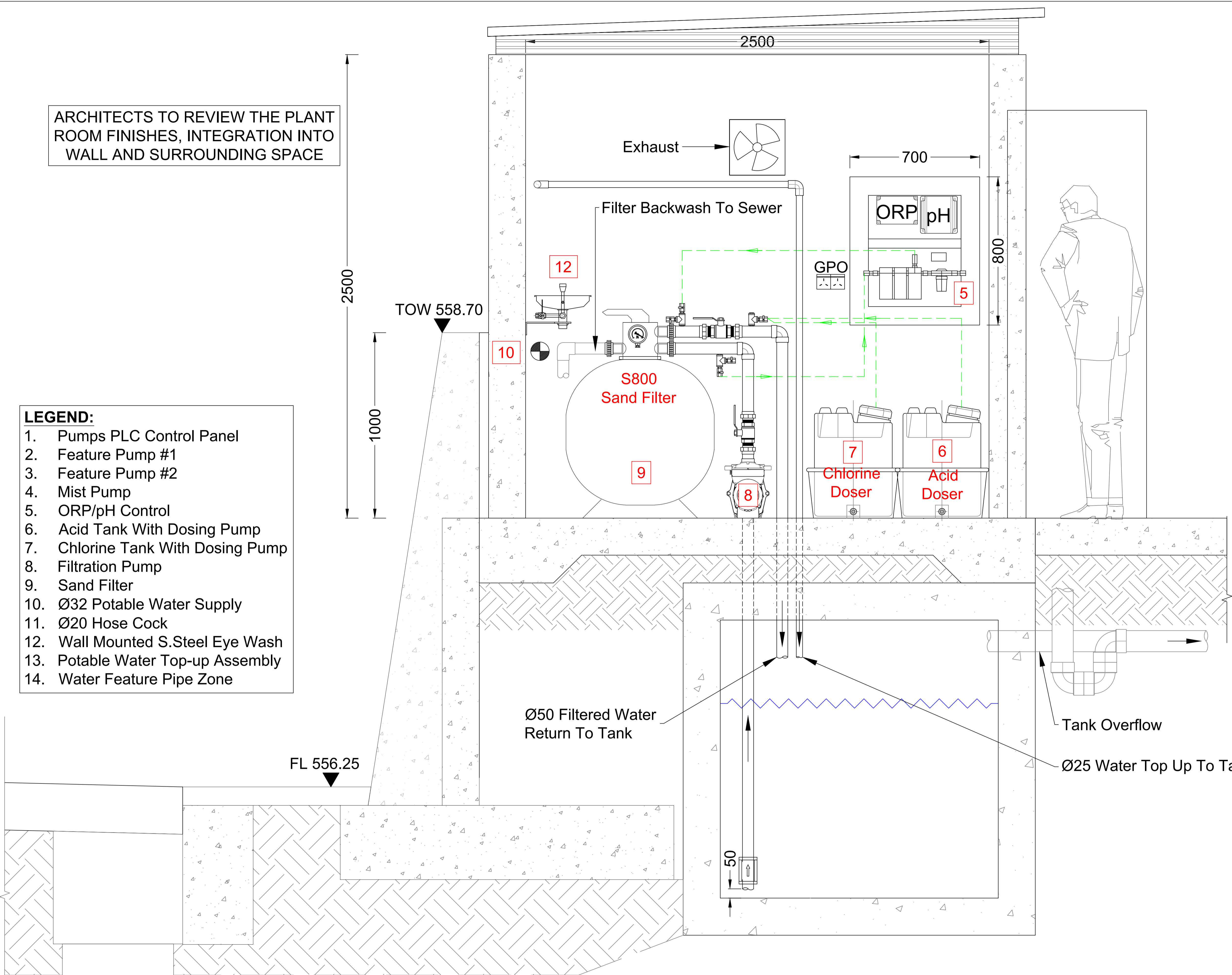
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Date: 07/12/2022 Scale: 1:10 @ A1
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Sheet Title
PLANT ROOM SECTIONS
 Sheet No: AWP.WF2112.202 Rev: A

ARCHITECTS TO REVIEW THE PLANT ROOM FINISHES, INTEGRATION INTO WALL AND SURROUNDING SPACE



- LEGEND:**
1. Pumps PLC Control Panel
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 14. Water Feature Pipe Zone

FL 556.25

2 HYDRAULIC PLANT ROOM
 SECTION
 Scale 1:10

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PROJECT
ACTON WATERFRONT PARK
ACTON, ACT
WATER FEATURE WORKS



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 Phone: (02) 6228 1200

LANDSCAPE ARCHITECT
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 ASPECT Studios
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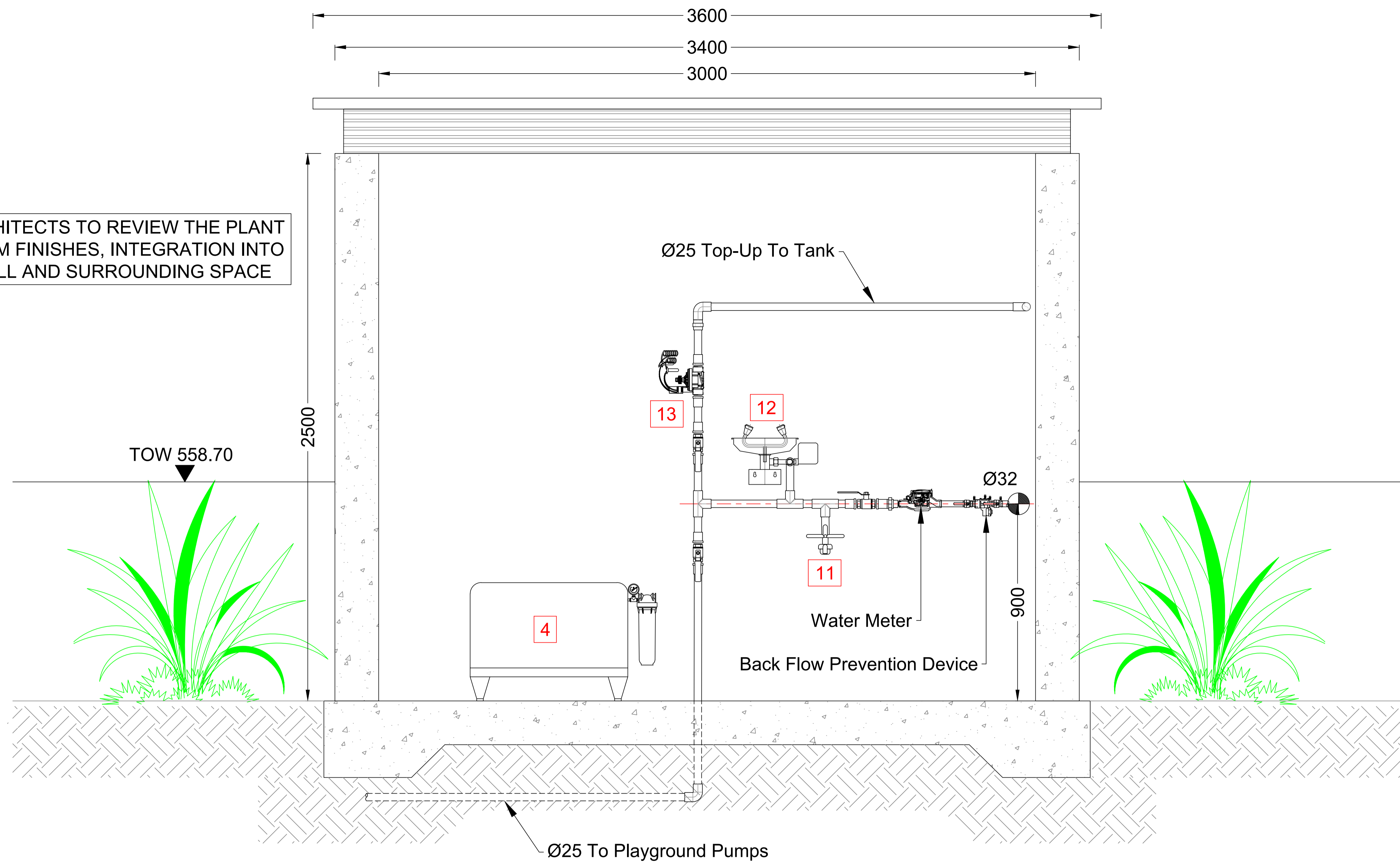
PROJECT MANAGEMENT
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 Bridge42 Pty Ltd
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Hydraulic Engineer
Mr Sayed Salem
 B.Sc.Eng. Hydr.Ft.Mech. Dipkt. CEng 19446
 Signature: _____ Date: 07.12.2022
 Supervisor Certificate # 598895

Date: 07/12/2022 Scale: 1:10 @ A1
 Designed: S.Salem Drawn: A.L.

Sheet Title:
PLANT ROOM SECTIONS
 Sheet No.: AWP.WF2112.203 Rev: A

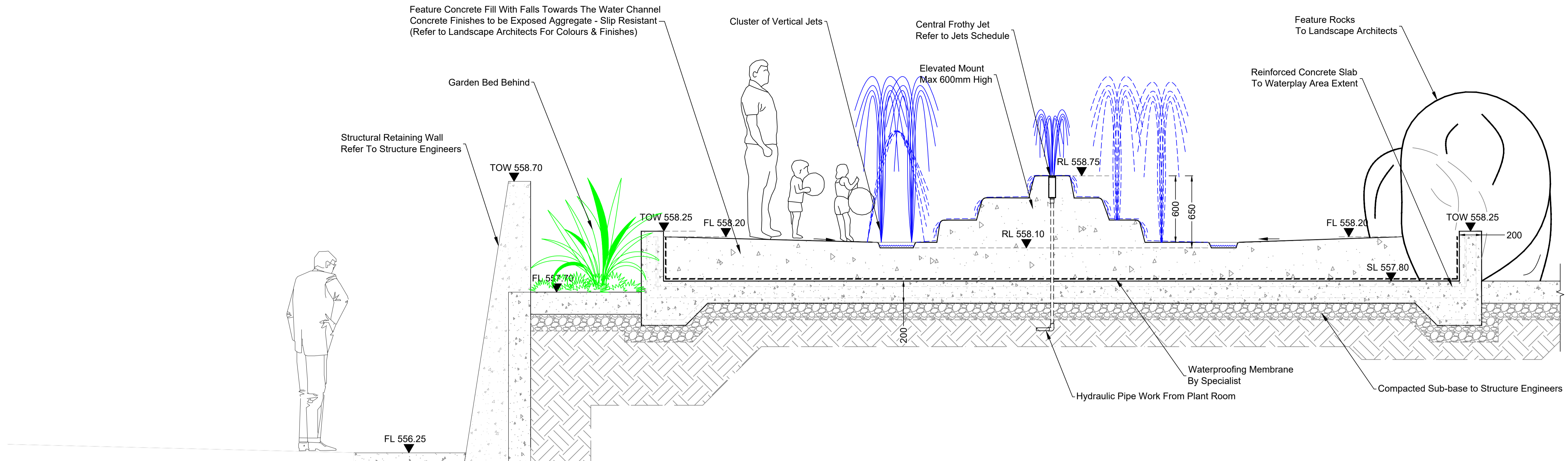
ARCHITECTS TO REVIEW THE PLANT ROOM FINISHES, INTEGRATION INTO WALL AND SURROUNDING SPACE



3 HYDRAULIC PLANT ROOM
 SECTION Scale 1:10

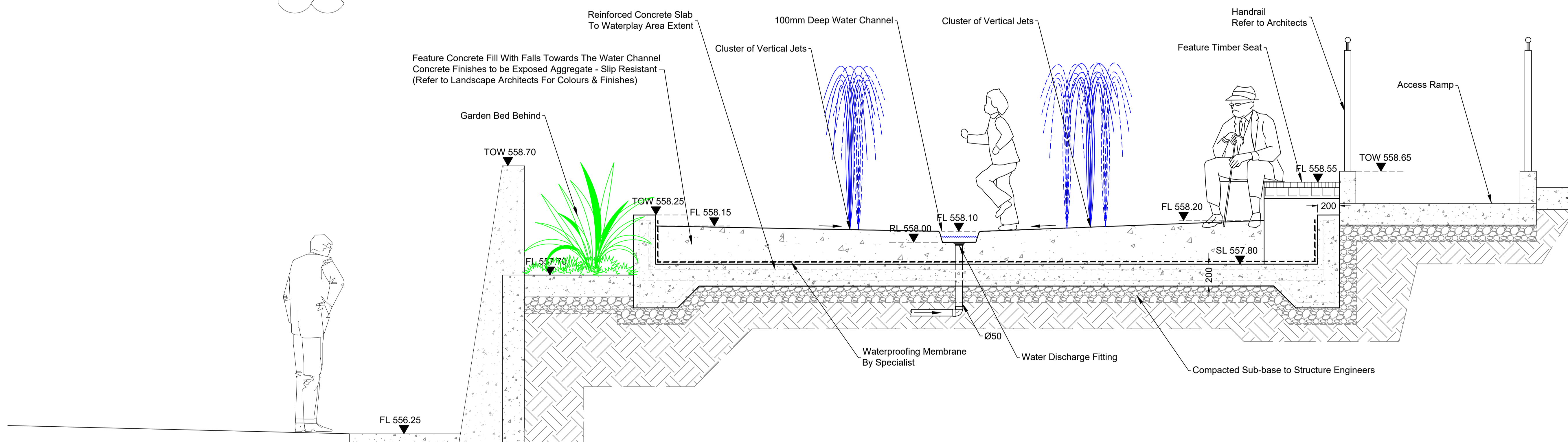
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LEGEND



A WATERPLAY CROSS SECTION
 100-A Scale 1:20

Note:
 • For Landscape Finishes and Surrounding, Refer to Landscape Architect's Documentation.
 • For Structure Slab Details and Reinforcement, Refer To Structure Engineers.



B WATERPLAY CROSS SECTION
 100-B Scale 1:20

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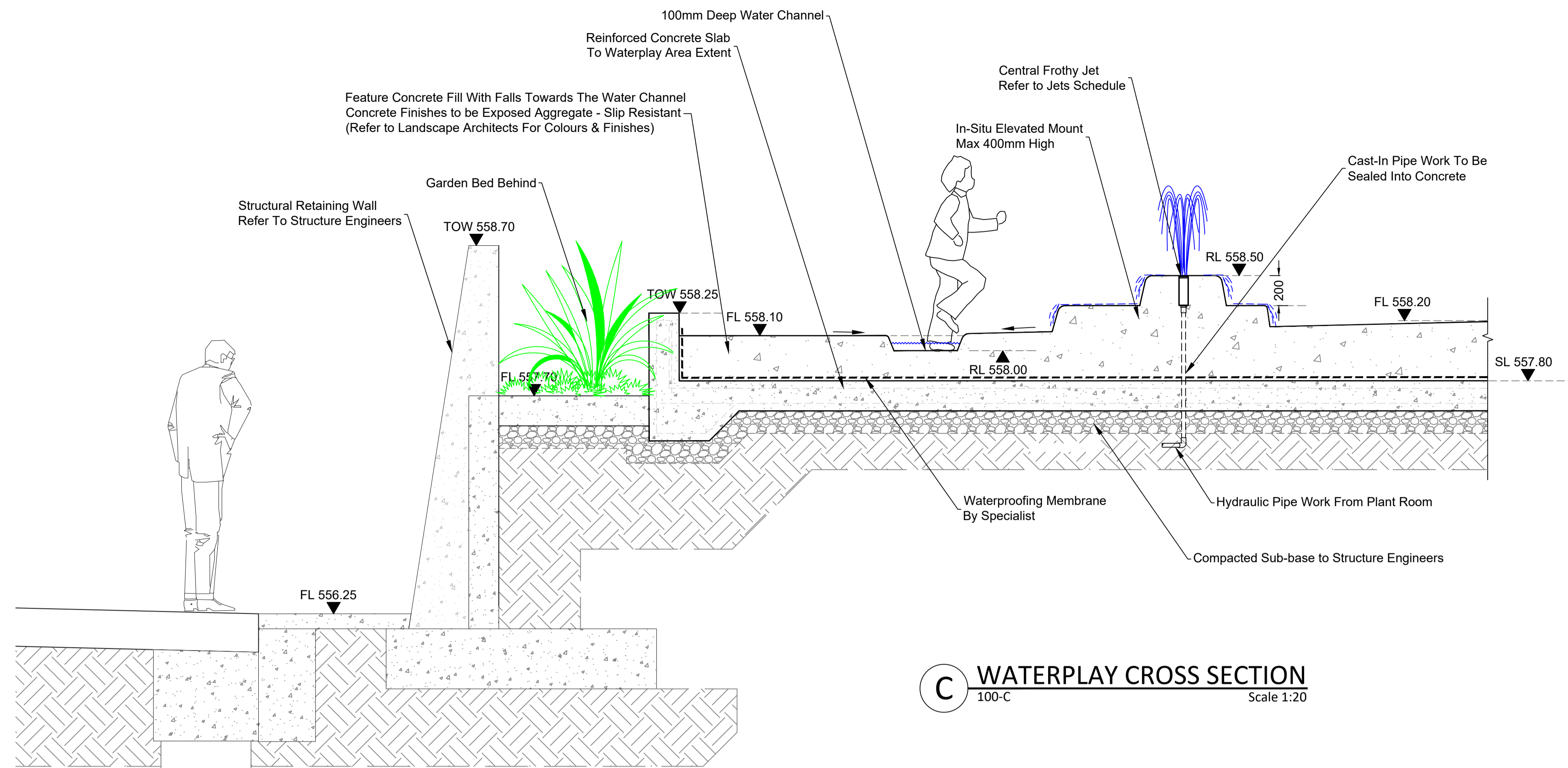
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 Designed: S.Salem Draw: A.L.

Sheet Title
WATERPLAY SECTION DETAILS
 Sheet No: AWP.WF2112.300 Rev: A



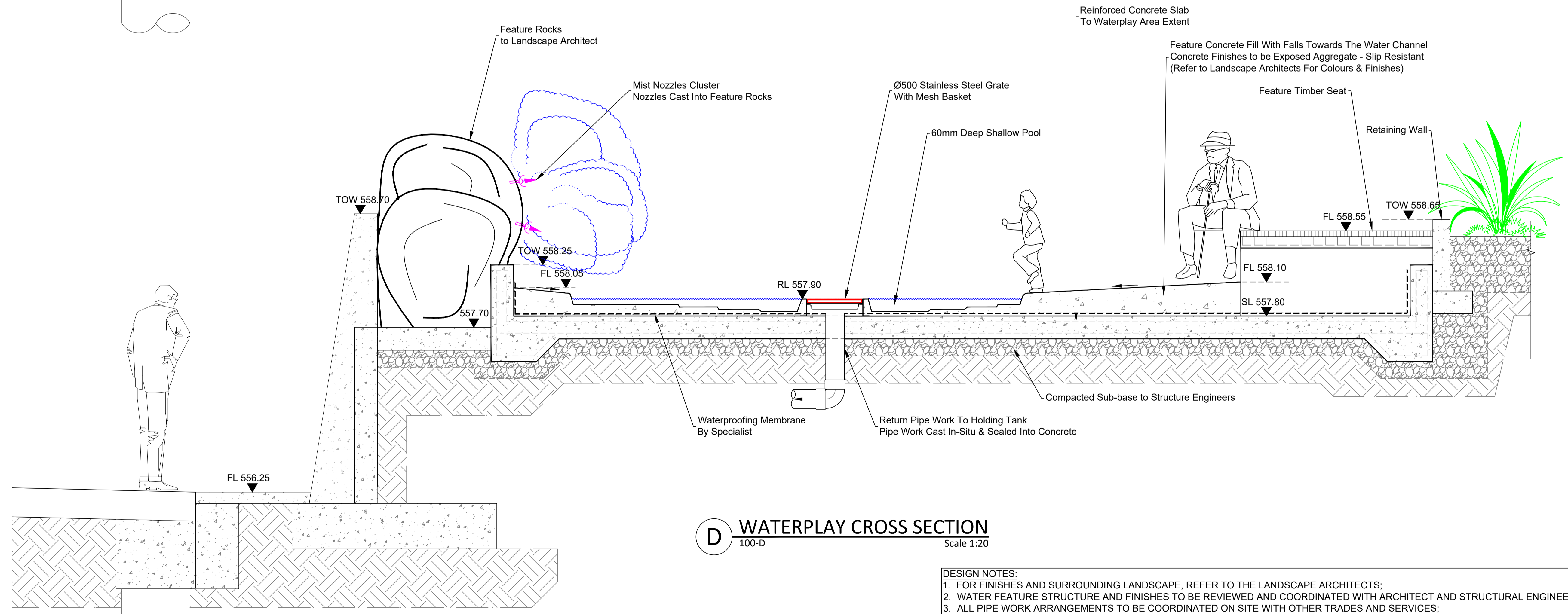
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C WATERPLAY CROSS SECTION
 100-C Scale 1:20

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D WATERPLAY CROSS SECTION
 100-D Scale 1:20

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ACTON, ACT

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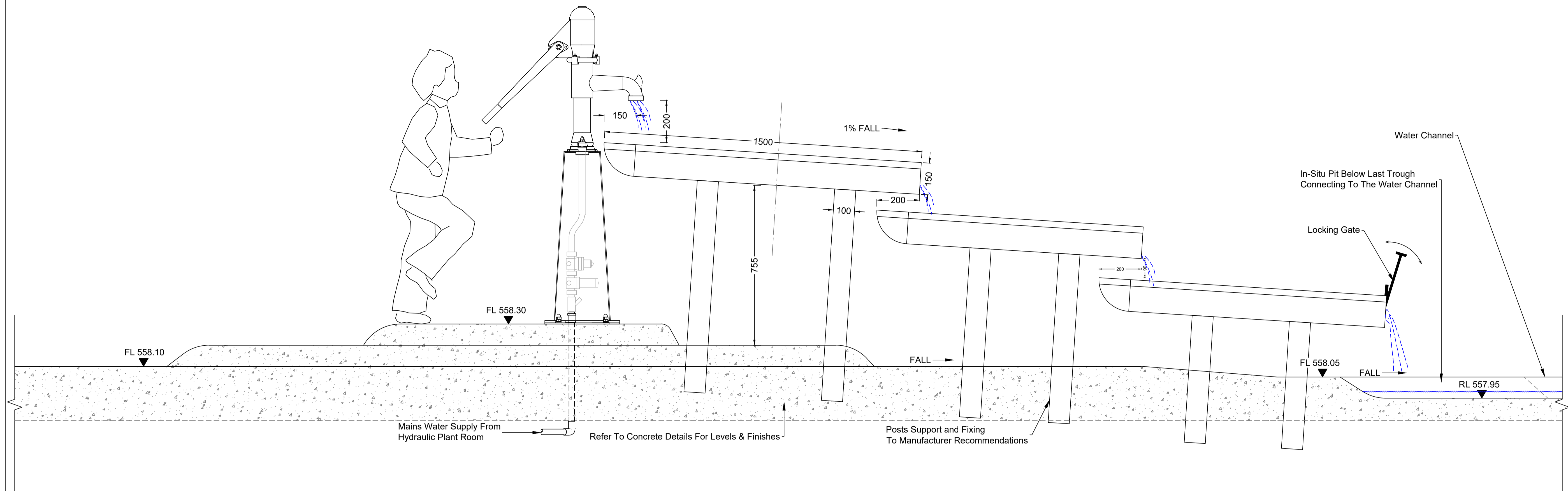
Hydraulic Engineer
Mr Sayed Salem
 B.Sc. Ag. Hyd. & Mec. Dept. C/Ag/19446
 Signature: _____ Date: 07.12.2022
 Supervisor Certificate # 59899S

Date: 07/12/2022 Scale: 1:20 @ A1
 Designed: S.Salem Drawn: A.L.

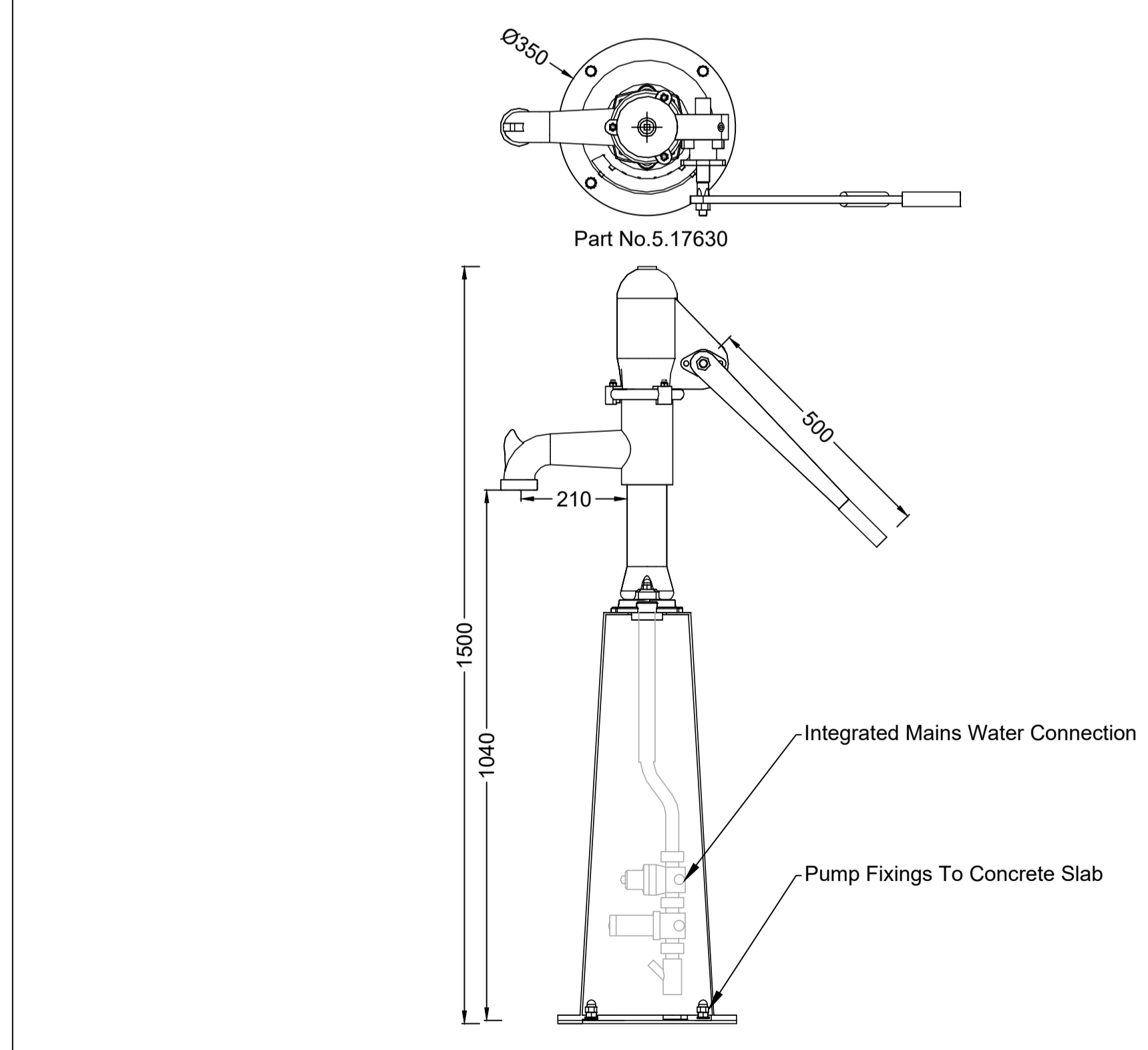
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WATERPLAY SECTION DETAILS
 Sheet No.: AWP.WF2112.301 Rev: A

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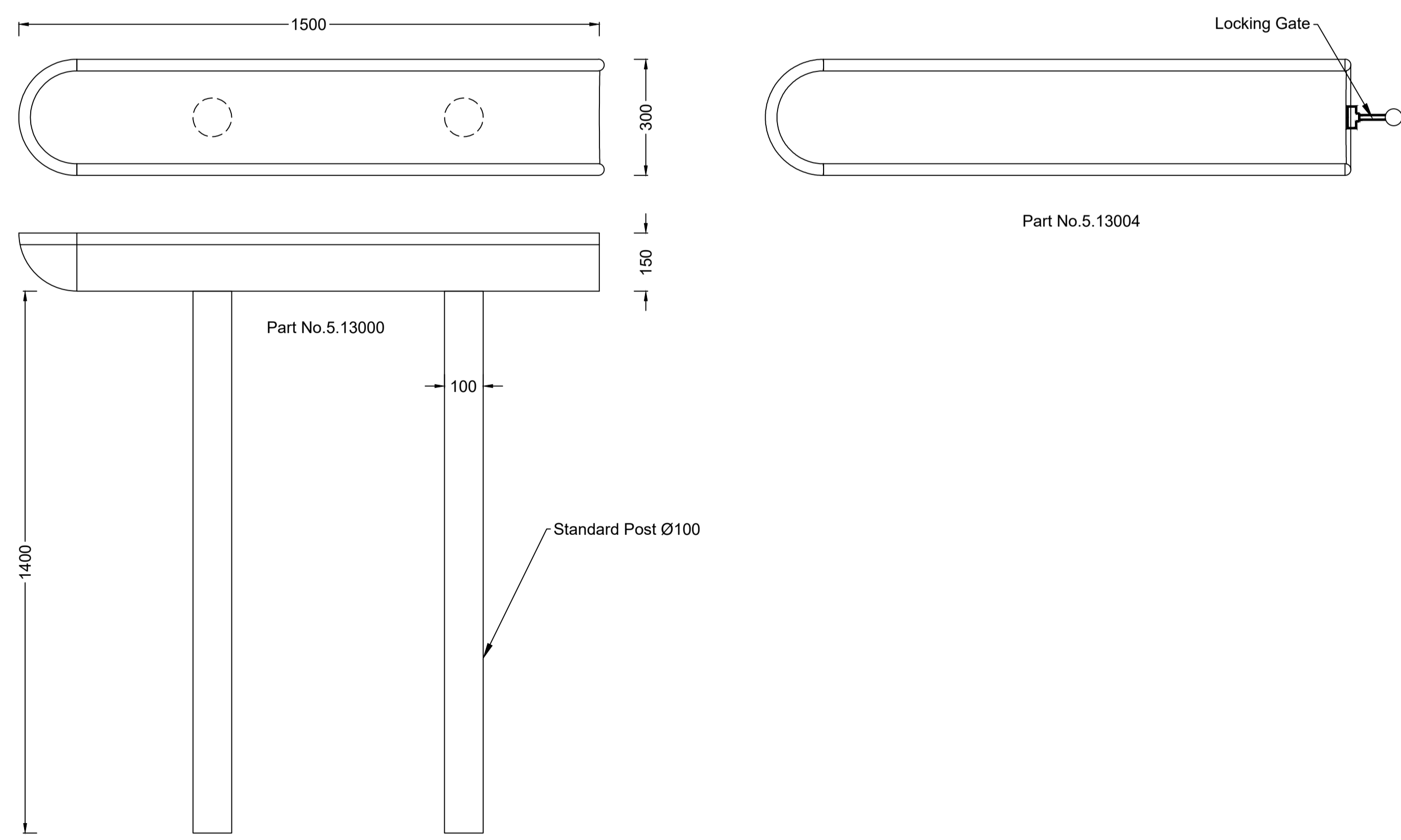
LEGEND



F LOWER WATERPLAY SECTION
 SECTION Scale 1:10



WATER PLAY PUMP
 Scale 1:10



WATER PLAY TROUGH
 Scale 1:10

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 ACTON, ACT
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 B.Sc.Eng. Hydr.Ft.Mech. Dipkt. Civl Engrg
 Signature: _____ Date: 07.12.2022
 Supervisor Certificate # 59899S

Date: 07/12/2022 Scale: AS SHOWN @ A1
 Designed: S.Salem Drawn: A.L.

Sheet Title
WATERPLAY EQUIPMENTS
 Sheet No: AWP.WF2112.302 Rev: A

LEGEND

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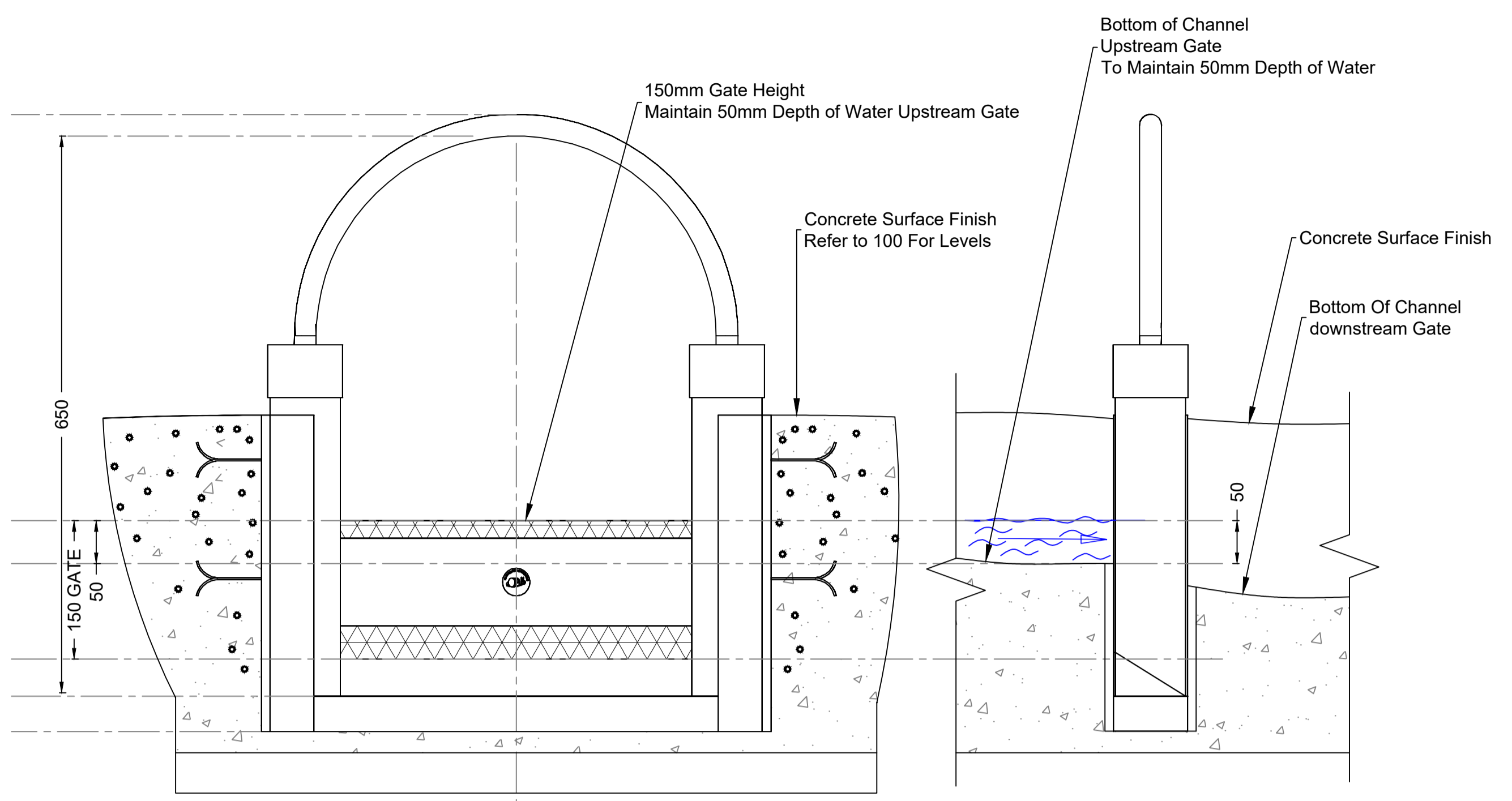
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Hydraulic Engineer
Mr Sayed Salem
 B.Sc. Ag. Hyd. Fl. Mec. Dip. Citg 19446
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 Supervisor Certificate # 598895

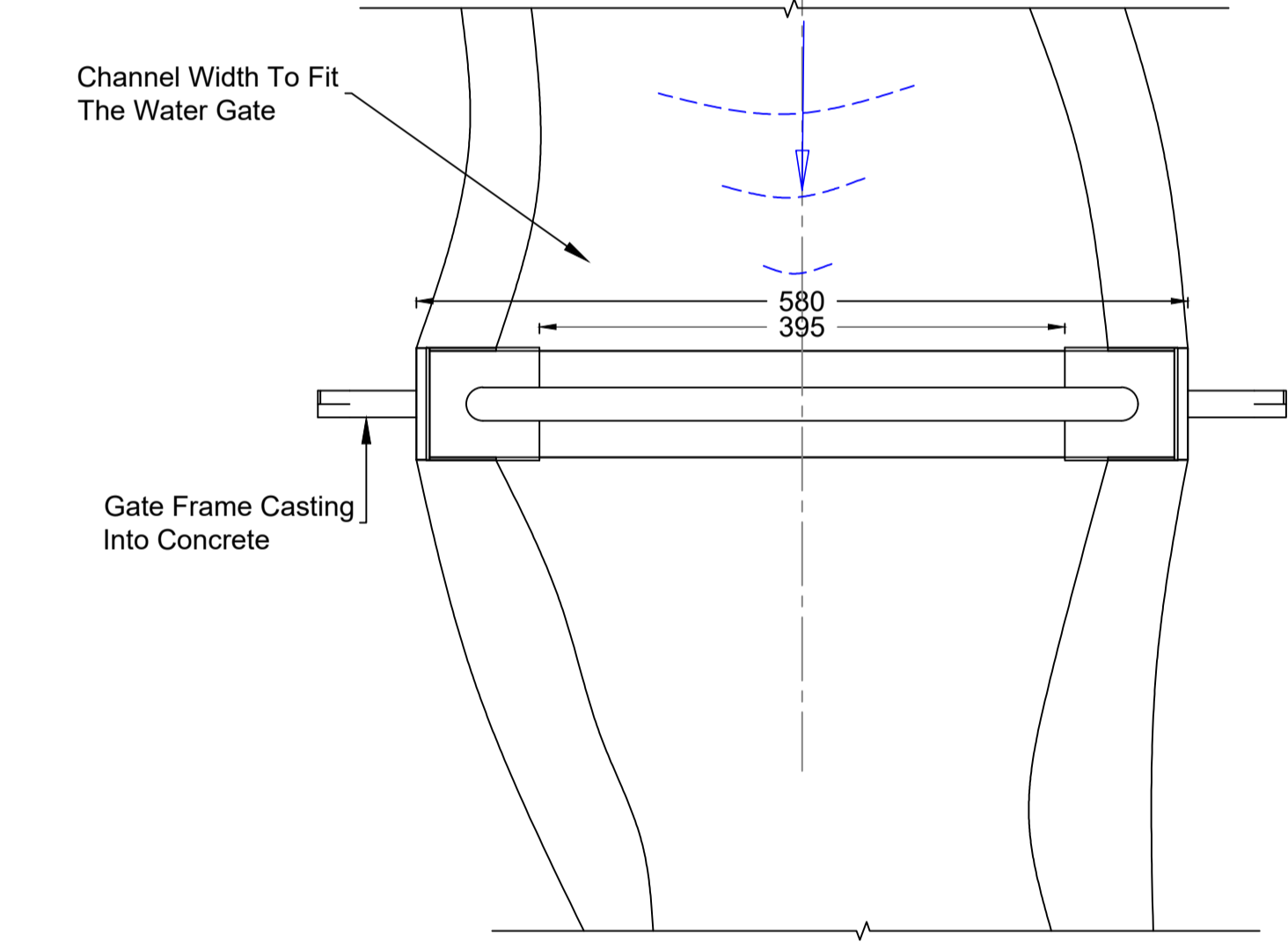
Date: 07/12/2022 Scale: AS SHOWN @ A1
 Designed: S.Salem Draw: A.L.

Sheet Title
WATERPLAY EQUIPMENTS
 Sheet No: AWP.WF2112.303 Rev: A

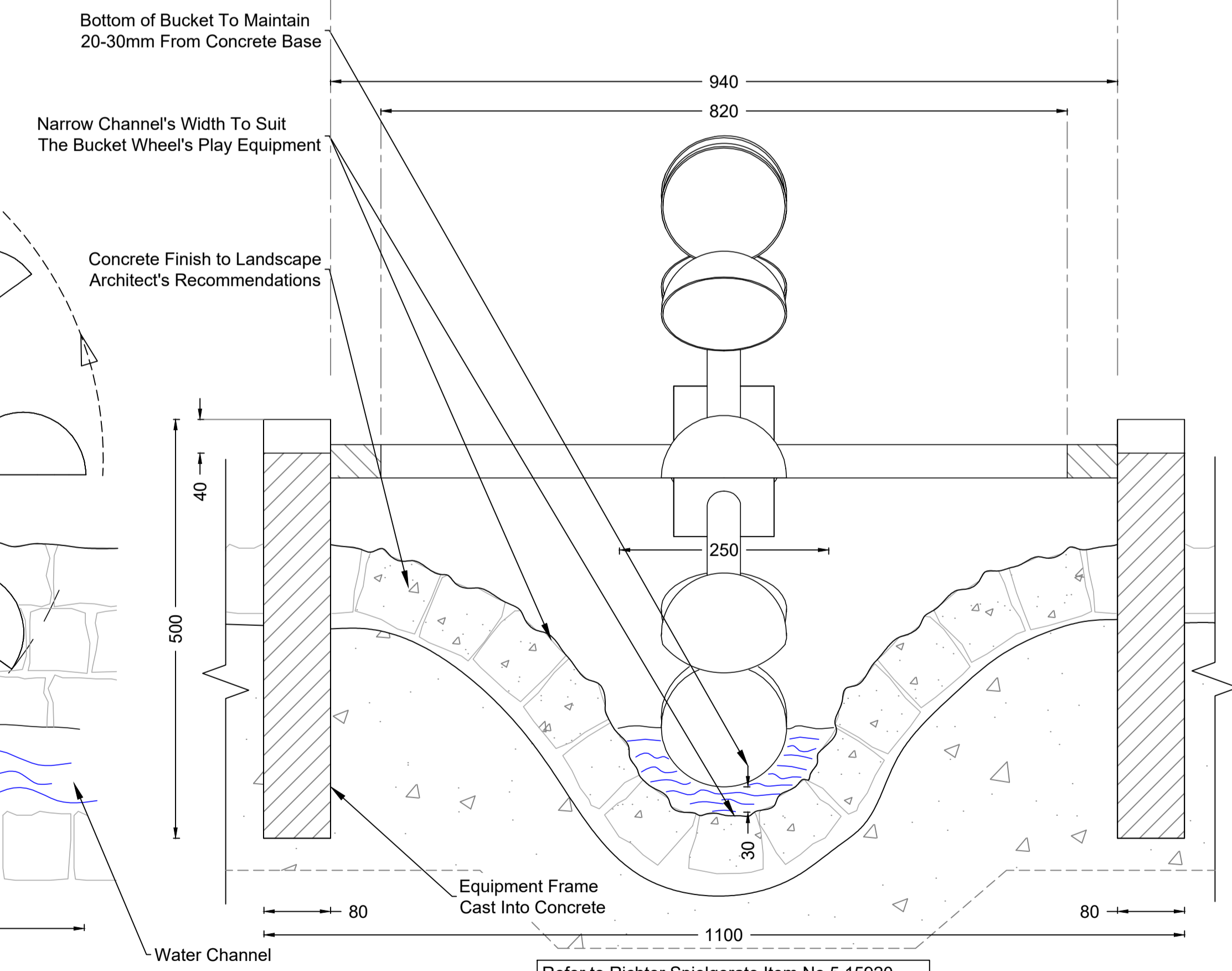
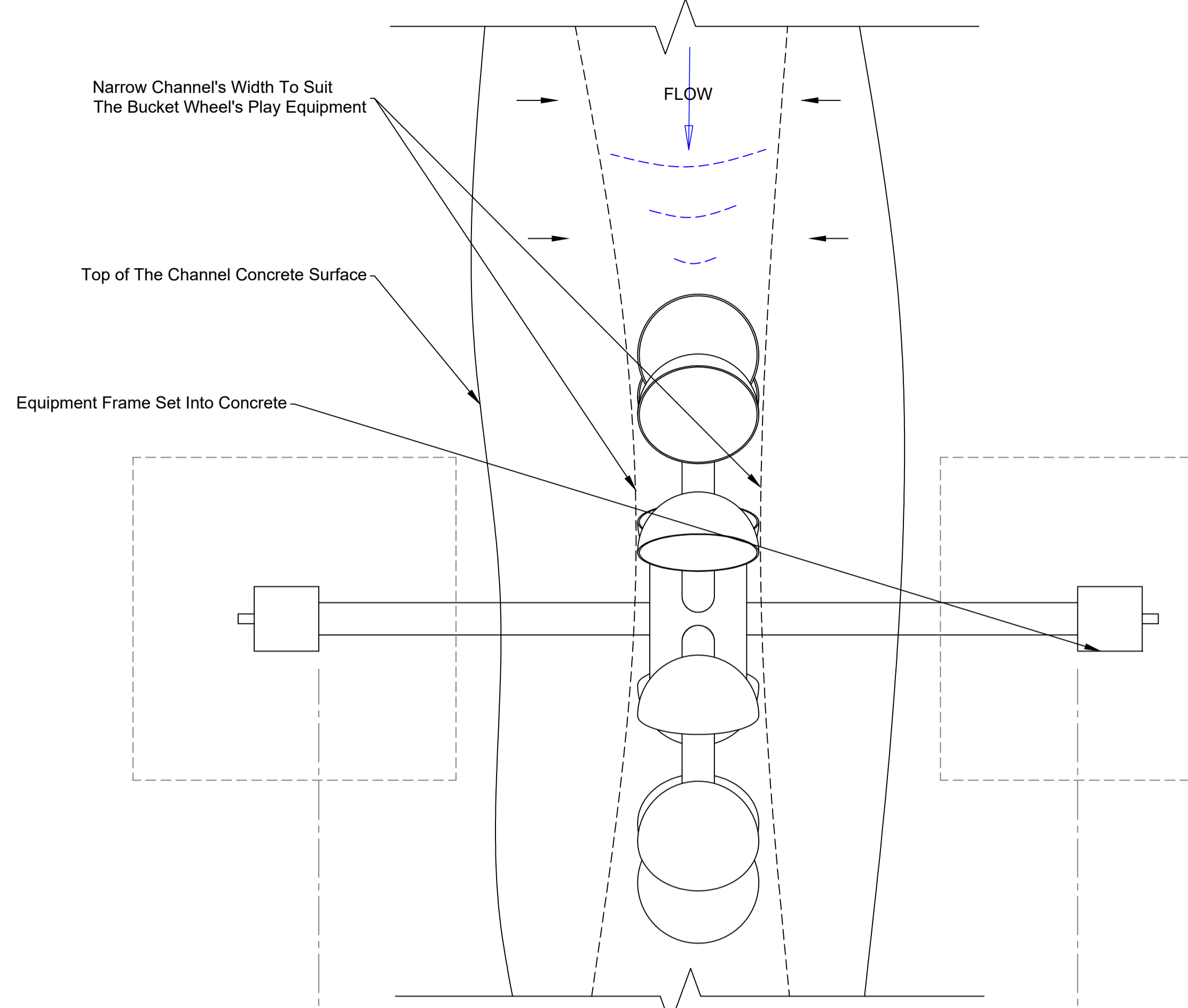
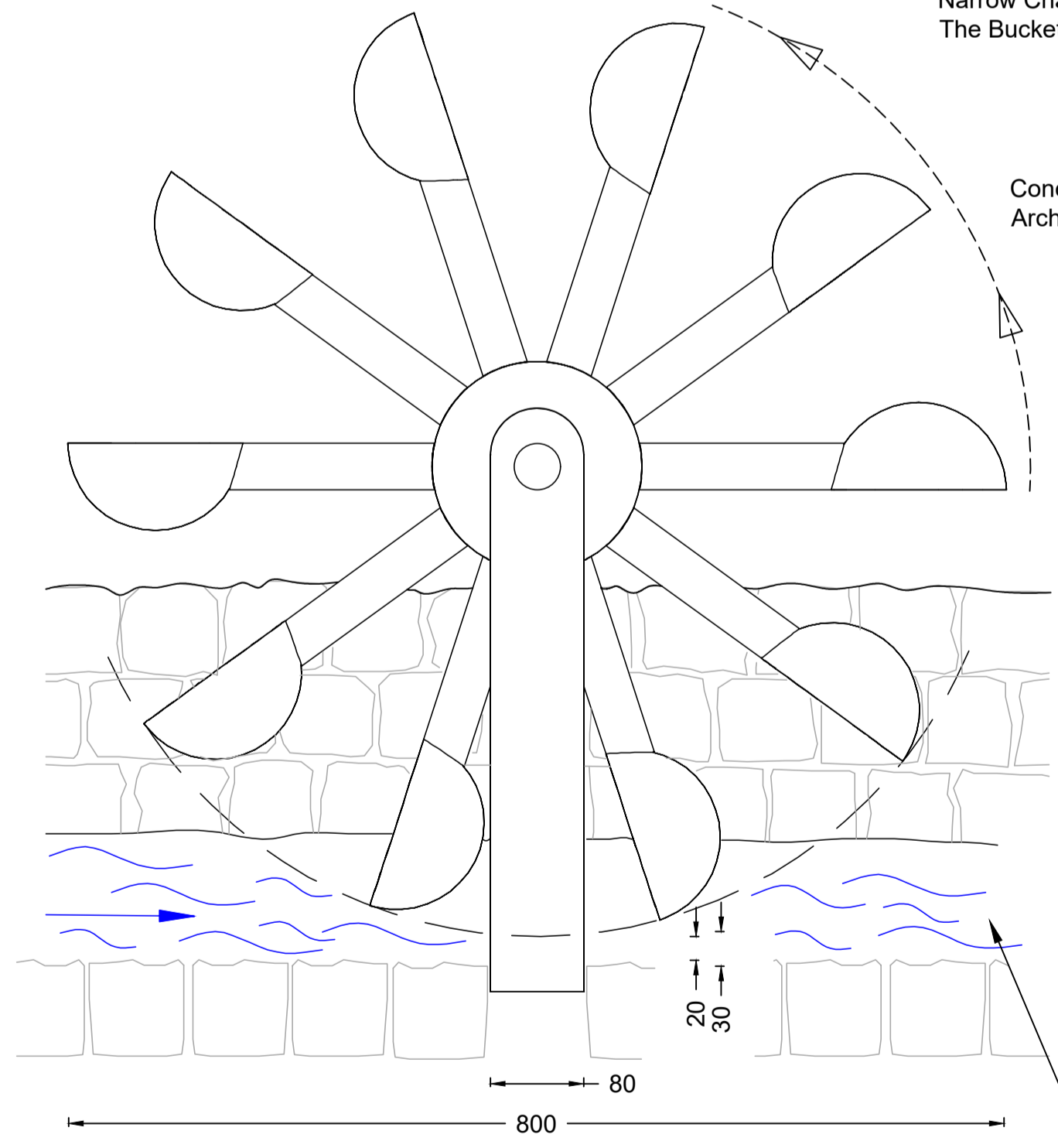


NOTE:

- Recommended 50mm Height Gate Only to Maintain 50mm Depth of Water Upstream Gate.
- Contractor To confirm Product Availability.
- Product No. 5.20930 Lock Gate With Frame



G WATER LOCKING GATE
 TYPICAL Scale 1:5



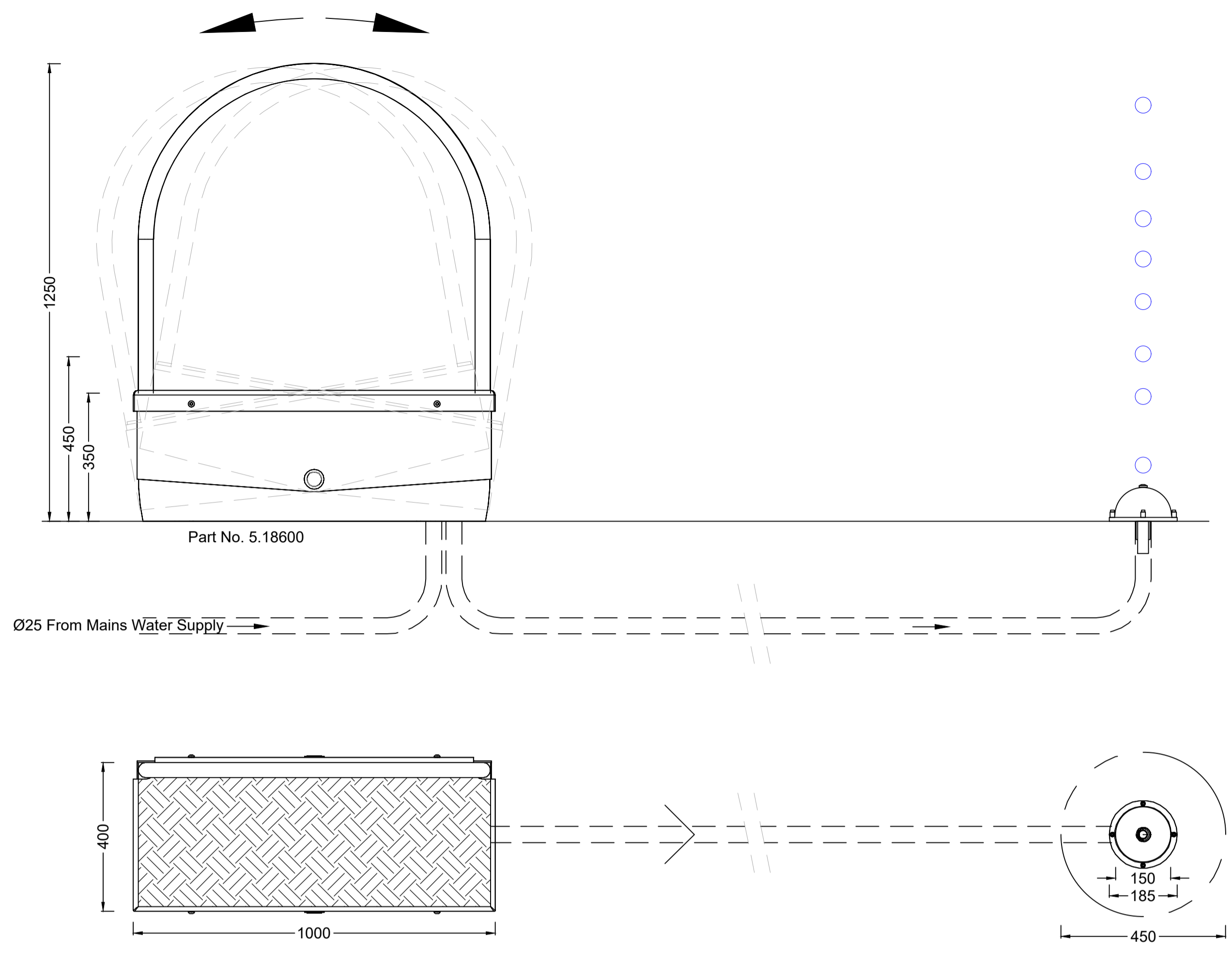
Refer to Richter Spielgerate Item No 5.15920 For More Installation & Maintenance Instructions.

H WATER BUCKET-WHEEL
 TYPICAL Scale 1:5

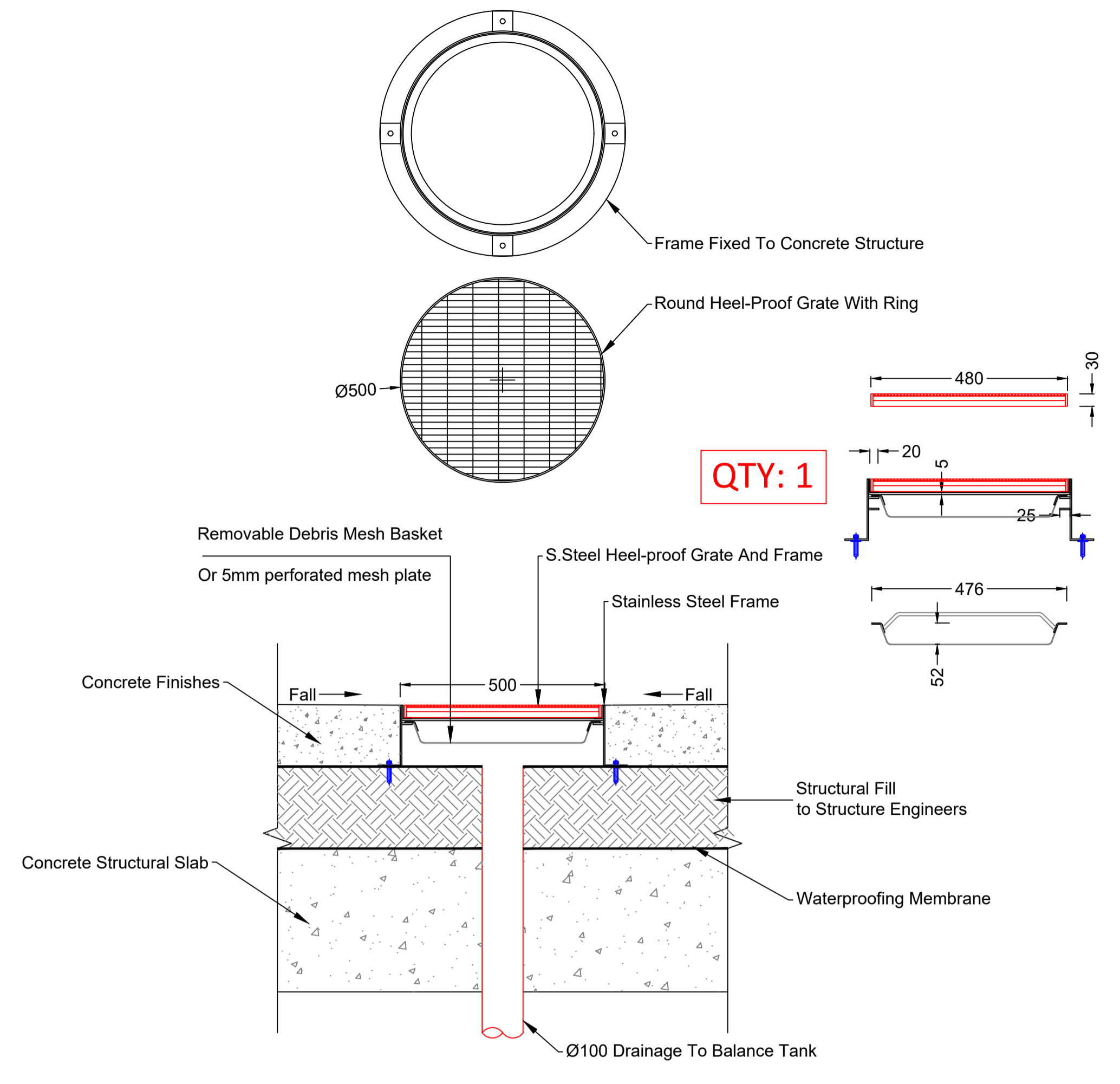
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Section to the water main



I SEE SAW PUMP
TYPICAL Scale 1:10



J STAINLESS STEEL GRATE DETAILS
SECTION Scale 1:10

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ACTON, ACT
WATER FEATURE WORKS



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Signature: _____ Date: 07.12.2022
Supervisor Certificate # 598895

Date	07/12/2022	Scale	AS SHOWN @ A1
Designed	S.Salem	Drawn	A.L.

Sheet Title
WATERPLAY EQUIPMENTS
Sheet No.
AWP.WF2112.304
Rev.
A

HYDRAULIC DESIGN SCHEDULE

PUMPS SCHEDULE					
NUMBER	TYPE	MODEL	SPECIFICATION	MANUFACTURER	APPLICATION
1	POOL PUMP	SUPATUF MK2 200	410 LPM @ 10 M HEAD	WATERCO	JETS DISPLAY
2	POOL PUMP	SUPATUF MK2 200	410 LPM @ 10 M HEAD	WATERCO	FROTHY JETS
3	POOL PUMP	SUPATUF MK2 200	410 LPM @ 10 M HEAD	WATERCO	FILTRATION

POWER DEMAND					
NUMBER	TYPE	MODEL	VOLTAGE	AMPS	TOTAL INPUT
1	POOL PUMPS	SUPATUF MK2 200	1PH 220-240V 1.5KW	3 X 7.2 AMPS	30 AMPS
2	FOG UNIT	AUSTRALIA FOG	1PH 220-240V GPO	10AMPS	10 AMPS GPO
3	PLC CONTROL	INCA CONTROL	1PH 220-240V	10AMPS	10 AMPS SOLENOID RELAY
4	GENERAL USE	PLANT ROOM SERVICES	1PH 220-240V GPO	10AMPS	10 AMPS LIGHTING
TOTAL POWER DEMAND FROM THE MAINS DB 220-240V				75 AMPS	

FILTRATION AND TREATMENT UNIT			
ITEM	DESCRIPTION	SPECIFICATION	DETAILS
1	HOLDING TANK	7500L CONCRETE TANK	1500 DEPTH x 5000 WIDTH x 1500 LENGTH IN-GROUND TANK
2	FILTRATION PUMP'S DEMAND	360 LPM @ 10 M HEAD	PUMP OPERATES ON AN ADJUSTABLE TIME CLOCK
3	1 OFF WATERCO S800 SAND FILTER	FLOW 360 L/MIN	WITH MANUAL 50MM BACKWASH VALVE AND GLASS BEADS MEDIA
4	ORP CONTROL	PROMINENT DCC300	COMPACT CONTROL pH/ORP PACKAGE
5	ACID DOSING SYSTEM	BT4b DOSING PUMP	1 L/H 350 KPA PUMP
6	CHLORINE DOSING SYSTEM	BT4b DOSING PUMP	1 L/H 350 KPA PUMP
HYDROCHLORIC ACID BALANCE		pH BALANCE AT 7.2 - 7.8	

CONSTRUCTION NOTES		
ITEM	DESCRIPTION	DETAILS
1	PLANT ROOM WATER SUPPLY	32MM POTABLE WATER SUPPLY TO THE PLANT ROOM WITH RPZ AND METER ASSEMBLY
2	PLANT ROOM VENTILATION	AN AIR TURNOVER RATE OF 10-12 TIMES THE PLANT-ROOM VOLUME PER HOUR
3	PLANT-ROOM DRAINAGE	Ø 100 FLOOR WASTE TO SEWER PIT FOR THE OVERFLOW AND BACKWASH
4	SAFETY EYE WASH	STAINLESS STEEL EYE WASH WITH A HOSE TAP INSTALLED IN THE PLANT ROOM
5	WATER FEATURE TOP UP	AN AUTOMATIC MAKE-UP SOLENOID AND LEVEL TRANSDUCER MOUNTED INSIDE PUMP PIT
6	PIPING AND CONNECTIONS	ALL PRESSURIZED PIPE WORK AND FITTINGS ARE uPVC CLASS 12 TO AS3500
7	WATER FEATURE CONTROL	TOUCH SCREEN, PLC (PROGRAMMABLE LOGIC CONTROL) BASE WITH TIME CLOCKS
8	OPERATING HOURS	ADJUSTABLE VIA PLC & TIME CLOCK (NOM 8AM - 8PM)

JETS SCHEDULE					
NUMBER	TYPE	MODEL	SPECIFICATION	MANUFACTURER	QUANTITY
1	VERTICAL STREAM	STRAIGHT UP	23 LPM @ 1M HIGH	PARKEQUIP	8
2	SIDE SPLASH JETS	SPLIT SPURT	15 LPM @ 1M SPRAY	PARKEQUIP	5
3	MOUNT FROTHY JET	MONSTER 5	100 LPM @ 500-600 HIGH	PARKEQUIP	3
4	PLAYGROUND PUMP	5.1763	1.5M PUMP	RICHTER SPIELGERATE	1
5	SEE-SAW PUMP	5.18600	IM PLATE PUMP	RICHTER SPIELGERATE	1
6	LOCKING GATE	5.20930	0.15M WATER GATE	RICHTER SPIELGERATE	1
7	SPINNING WHEEL	5.15920	WATER BUCKET WHEEL	RICHTER SPIELGERATE	1
8	WATER TRAY	5.13000	1.5M WATER TROUGH	RICHTER SPIELGERATE	3



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ACTON, ACT
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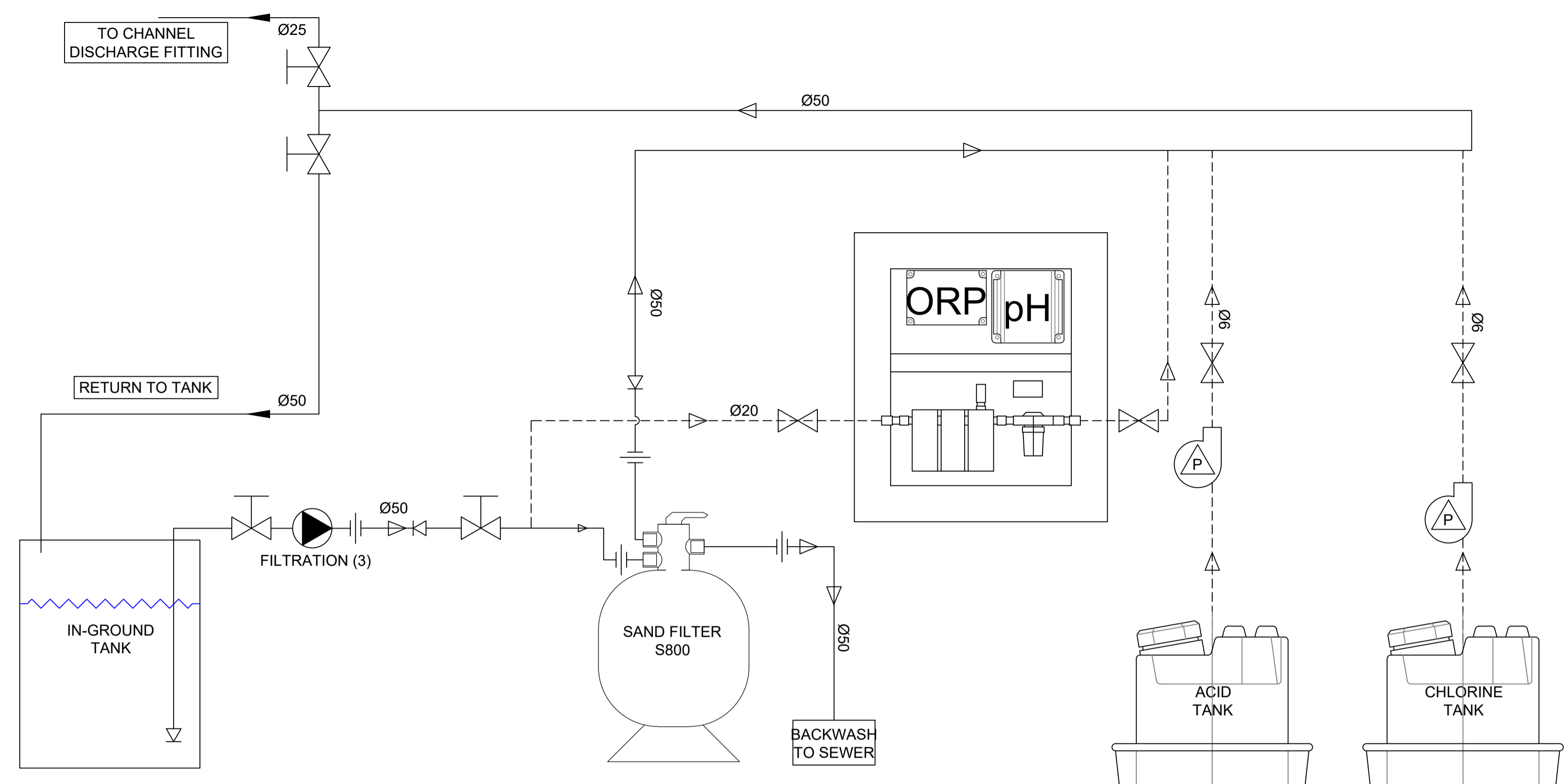
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HYDRAULIC DESIGN SCHEDULE

Sheet No. AWP.WF2112.400 Rev. A

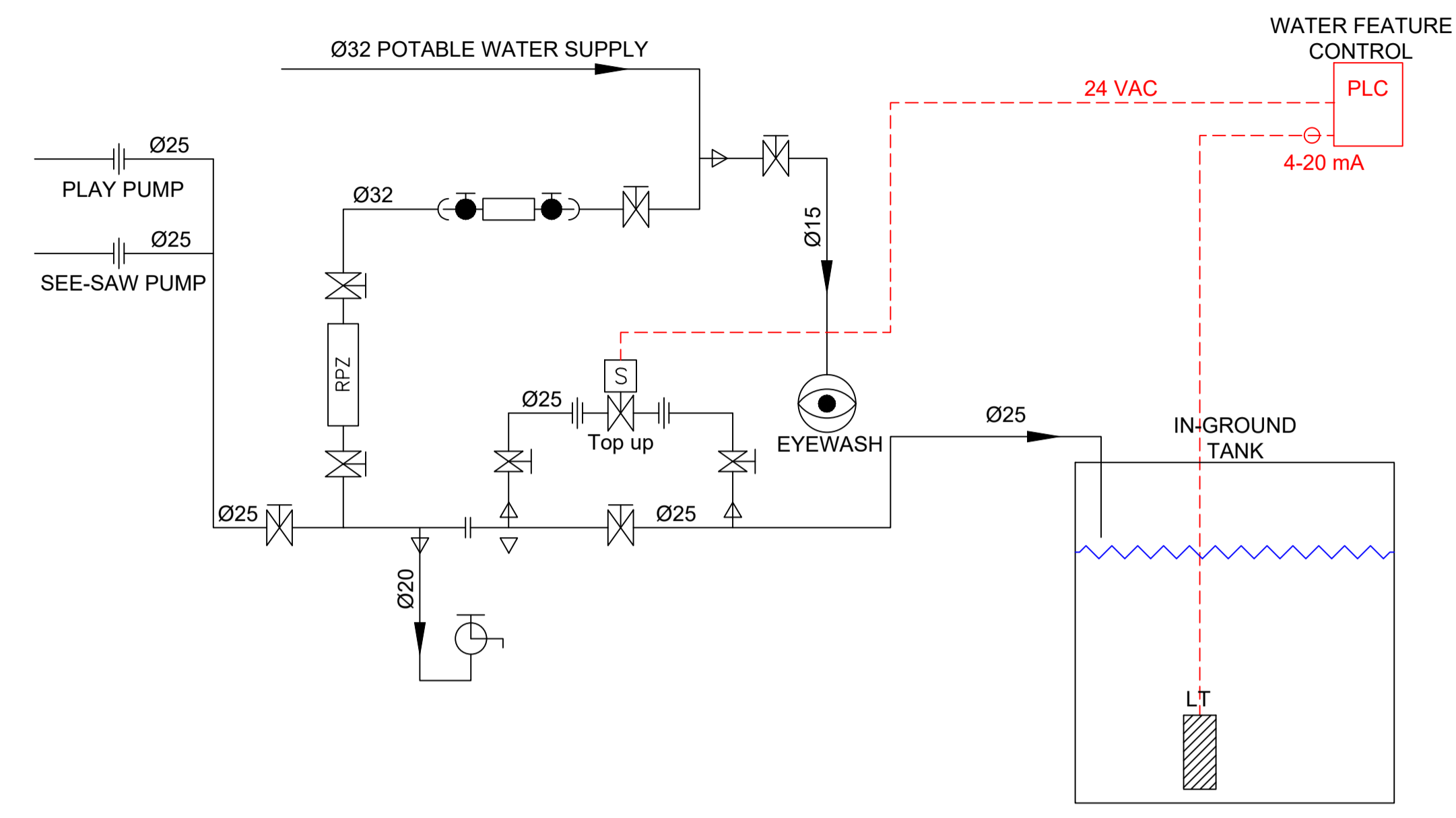


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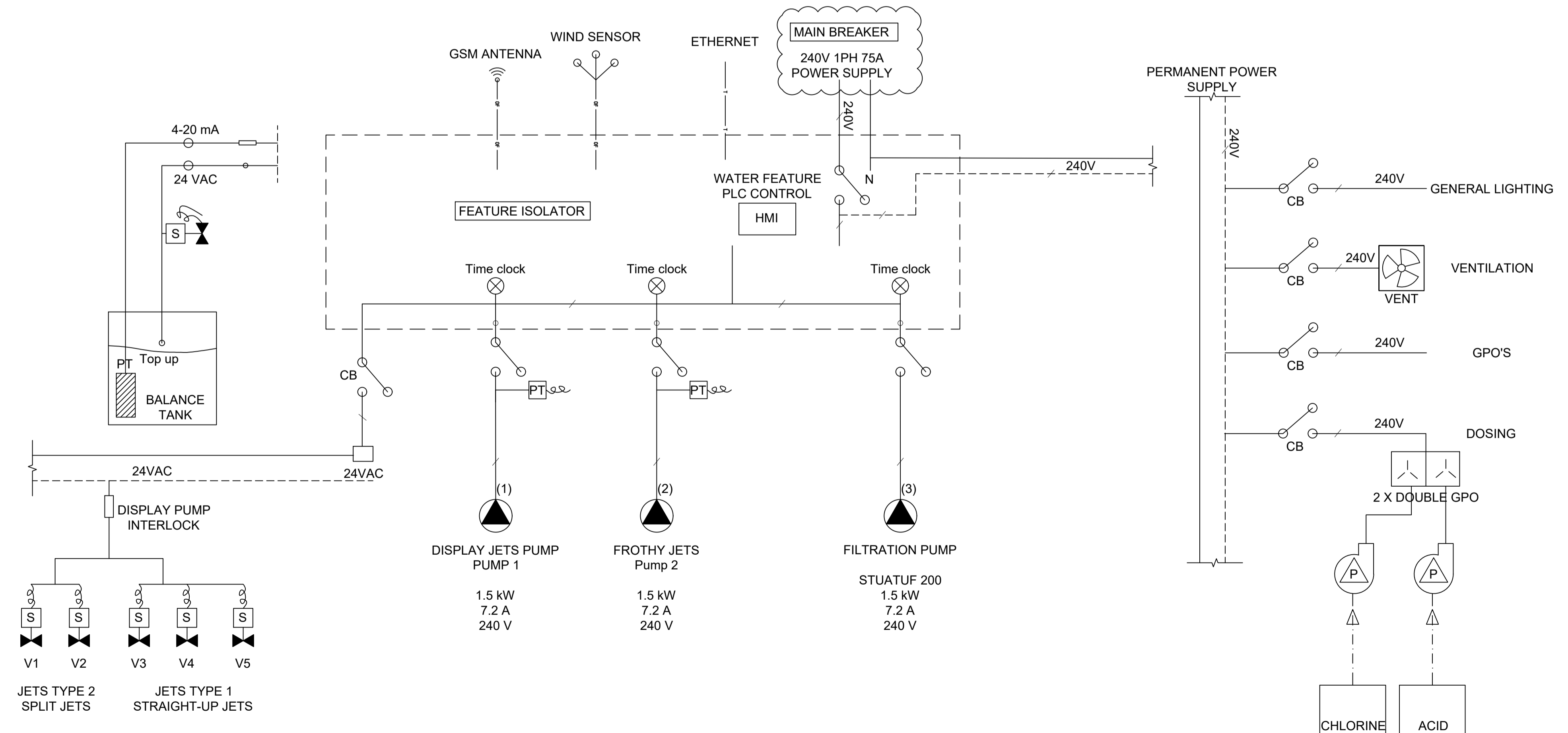
LEGEND



1 FILTRATION AND TREATMENT
 DIAGRAM NTS



2 POTABLE WATER NETWORK
 DIAGRAM NTS



3 WATER FEATURE CONTROL
 DIAGRAM NTS

LEGEND

SYMBOL	DESCRIPTION
	Variable speed drive
	Isolating valve
	Non return valve
	Solenoid valve
	Pressure transducer
	Centrifugal pump
	Pump screen
	Dosing pump
	Drainage pump
	Time clock
	Eye wash
	Hose tap
	Flow direction
	Union

Note:
 All dimensions are in millimeters unless otherwise noted.
 Do not scale from this drawing.

REV	DESCRIPTION	DATE
A	DESIGN DOCUMENTATION - COORDINATION ISSUE	25/05/2023

PROJECT
ACTON WATERFRONT PARK
 ACTON, ACT
 WATER FEATURE WORKS



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Hydraulic Engineer
Mr Sayed Salem
 B.Sc.Eng. Hydr.F.Mech. Dipht. CEng 19446
 Signature: [Signature] Date: 07.12.2022
 Supervisor Certificate # 598895

Date: 07/12/2022 Scale: NTS @ A1
 Designed: S.Salem Drawn: A.L.

Sheet Title
HYDRAULIC SCHEMATICS
 Sheet No.: AWP.WF2112.401 Rev: A

CONTROL PROFESSION:

PLC CONTROL ENCLOSURE CONSIST OF:

- MAIN BREAKER ON INCOMING POWER SUPPLY
- MAIN ISOLATOR ON FEATURE PLC CONTROL
- SEPARATE BREAKER FOR PERMANENTLY POWERED EQUIPMENT
- SINGLE PHASE DOL POWER SUPPLY TO FEATURE AND FILTRATION PUMP SETS (TOTAL 3 PUMPS)
- CIRCUIT BREAKER FOR EACH PUMP
- PHASE FAILURE RELAY
- PERMANENTLY POWERED SINGLE PHASE CIRCUIT BREAKER FOR:
 1. VENTILATION
 2. PLANT ROOM GENERAL LIGHTING AND GPO
 3. SINGLE PHASE CIRCUIT BREAK FOR DOSING UNITS
- 5 X 24VAC RELAYS TO SOLENOID VALVES
- 24VAC MAKE-UP WATER DEVICE OUTPUT (SOLENOID VALVE)
- PRESSURE TRANSDUCER TO ALL OPERATING PUMPS
- LEVEL TRANSDUCER AND TANK LEVEL DISPLAY ON SCREEN
- WIND SPEED ANEMOMETER CONTROLLING THE DISPLAY PUMPS
- GSM MODEM WITH ANTENNA INPUT FOR TEXT MESSAGES NOTIFICATION

COLOUR OPLC FOR CONTROL & DISPLAY OF SYSTEM INCLUDES

- DISPLAY OF FEATURE PUMPS OPERATION AND SPEED
- DISPLAY OF EACH PUMP'S STATUS & HOURS
- DISPLAY OF SOLENOID VALVES STATUS
- DISPLAY OF TANK LEVEL AND MAKEUP WATER STATUS
- DISPLAY OF LOW LEVEL SHUTDOWN
- EACH PUMP CONTROLLED VIA A SEPARATE TIME CLOCK AND CALENDAR
- FEATURE SOLENOID VALVES TIME CLOCK AND PLAY DURATION (Refer Sequencing)
- MAN/OFF/AUTO PUMPS SELECTOR
- WIND SPEED MONITOR
- GSM SIGNAL
- EVENT FAULT LOGGER
- SETUP PIN ACCESS

CONTROL INCLUDES:

- LEVEL TRANSDUCER
- 2 PRESSURE TRANSDUCER
- WIND SPEED DEVICE (ANEMOMETER)
- GSM ANTENNA

CONTROL SUPPLIER: INCA CONTROL P/L 02 9675 3815

CONTROL LOGIC

DISPLAY PUMP 1 - DOL:

1. FEATURE DISPLAY PUMP 1 OPERATES ON A TIME CLOCK (24 / 7 DAYS)
2. DISPLAY PUMP 1 OPERATION LINKED TO 5 SOLENOID VALVES
3. DISPLAY OF THE SOLENOID NUMBER ON OPERATION
4. PUMP SHUTDOWN AT HIGH WIND SPEED
3. PRESSURE TRANSDUCER FOR PUMPS MONITORING

PUMP 2 AND FILTRATION PUMP:

1. DOL OPERATION AND A TIME CLOCK FOR EACH PUMP (24/ 7 DAYS)
2. PRESSURE TRANSDUCER TO MONITOR PUMPS DISCHARGE AT LOW AND HIGH PARAMETERS

FEATURE SOLENOIDS SEQUENCING:

1. STEP 1: ALL SOLENOIDS 1-5 ARE ON (ADJUSTABLE DURATION MM:SS)
2. STEP 2: RUN SOLENOIDS INDIVIDUALLY & SEQUENTIAL (ADJUSTABLE MM:SS)
3. STEP 3: REPEAT - ALL SOLENOIDS ON



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LEGEND

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REV	DESCRIPTION	DATE
A	DESIGN DOCUMENTATION - COORDINATION ISSUE	25/05/2023

PROJECT
**ACTON WATERFRONT PARK
ACTON, ACT**

WATER FEATURE WORKS



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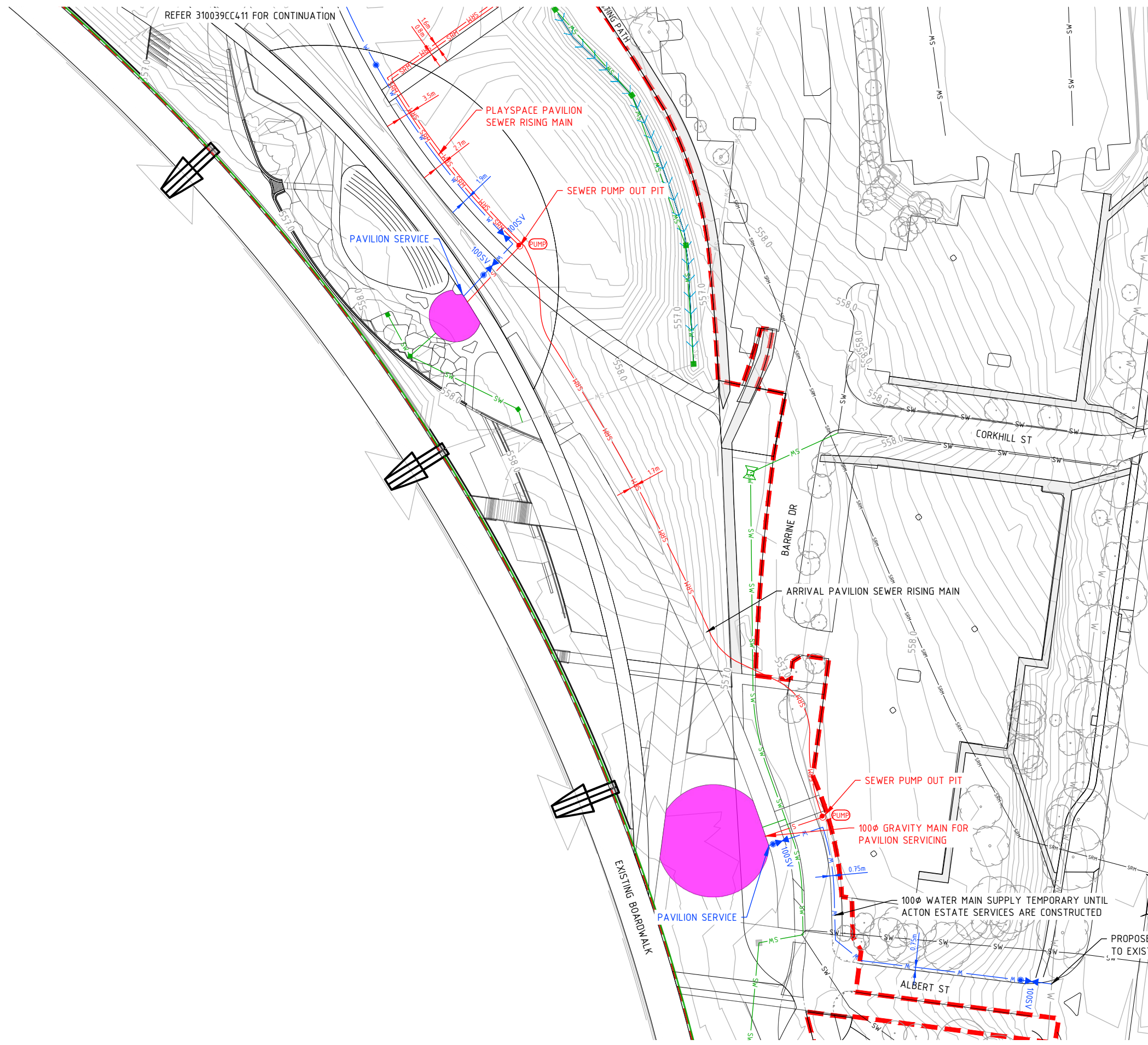
PROJECT MANAGEMENT
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Hydraulic Engineer
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Signature: [Signature] Date: 07.12.2022
Supervisor Certificate # 598895

Date	07/12/2022	Scale	NTS @ A1
Designed	S.Salem	Drawn	A.L.

Sheet Title
FEATURE CONTROL PROFESSION

Sheet No.	AWP.WF2112.402	Rev.	A
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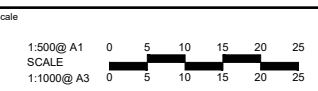
LEGEND

EXTENT OF WORKS	
EXISTING TREE TO BE RETAINED	
FINISHED SURFACE CONTOURS (1m INTERVAL)	
PROPOSED STORMWATER PIPE	
PROPOSED SPEL Hydrchannel GRATE	
PROPOSED SWALE	
PROPOSED STORMWATER PIT, MANHOLE	
EXISTING STORMWATER	
PROPOSED SEWER MAIN	
EXISTING SEWER MAIN	
PROPOSED SEWER RISING MAIN (TEMPORARY)	
PROPOSED WATER MAIN	
EXISTING WATER MAIN	
FIRE HYDRANT, SLUICE VALVE	
PAVILIONS	

- NOTES:**
1. ALL CONNECTIONS TO EXISTING SEWER AND WATER SHALL BE MADE BY ICONWATER AT THE CONTRACTORS EXPENSE.
 2. UNLESS OTHERWISE NOTED WATERMANS SHALL BE CLASS PN16 PVC WITH JOINTS COMPATIBLE WITH DUCTILE IRON PIPES AND FITTINGS. PLACE TRACING WIRE ON ALL PVC PIPES
 3. UNLESS OTHERWISE NOTED SEWER RISING MAIN IS TO BE PE PIPE.

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Rev	Amendments	Approved	Date
B	UPDATE LEGEND	CJC	06/06/23
A	ISSUED FOR APPROVAL	CJC	29/05/23



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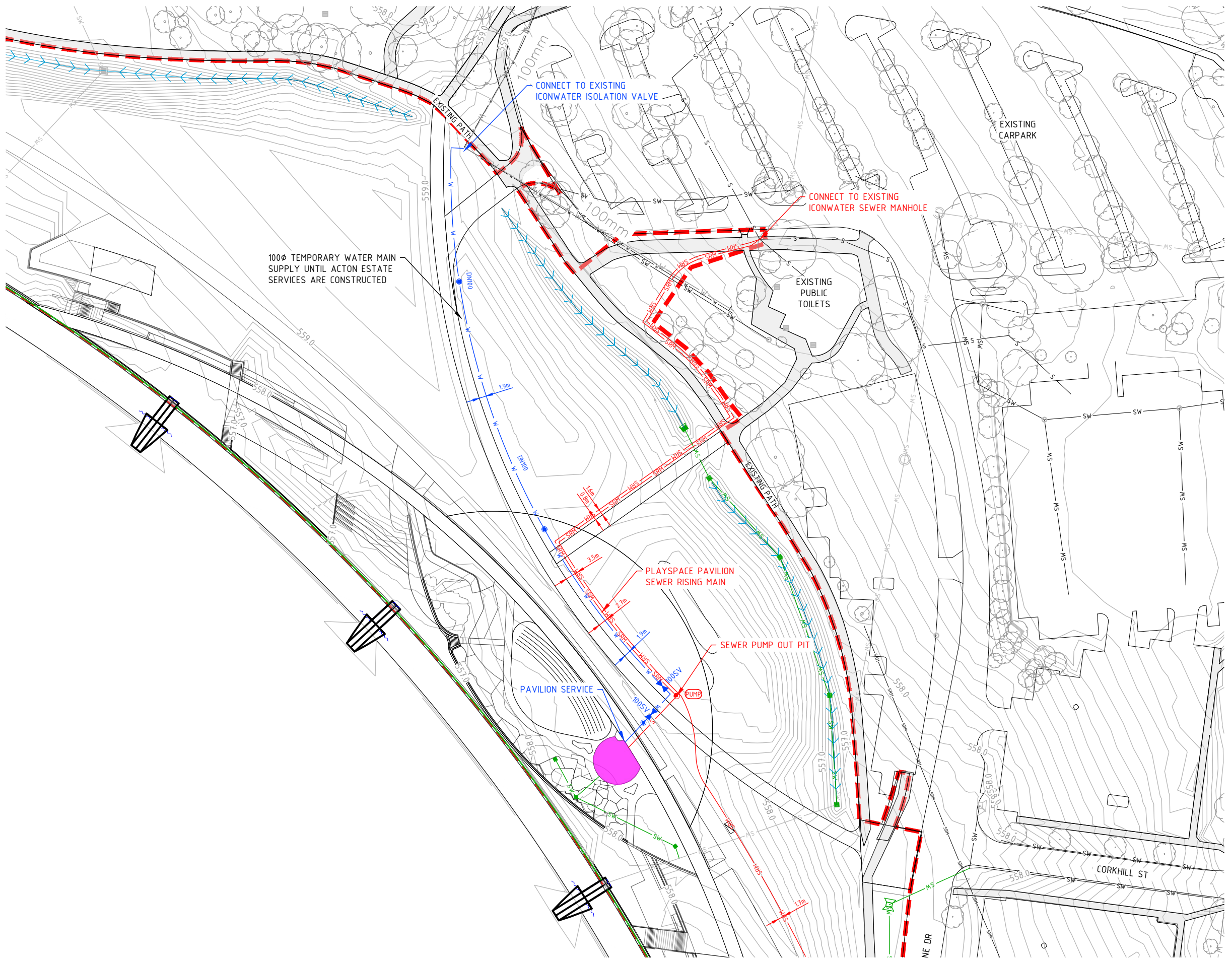
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Designed JB	Checked CO
Authorised SB	Date 29/05/2023

ACTON WATERFRONT WORKS APPROVAL
HYDRAULICS - SEWER AND WATER PLAN
SHEET 1
ACT
CITY RENEWAL AUTHORITY

PRELIMINARY Dwg No **310039CC410** Rev **B**



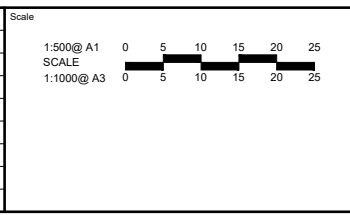
LEGEND

EXTENT OF WORKS	
EXISTING TREE TO BE RETAINED	
FINISHED SURFACE CONTOURS (1m INTERVAL)	
PROPOSED STORMWATER PIPE	
PROPOSED SPEL Hydrchannel GRATE	
PROPOSED SWALE	
PROPOSED STORMWATER PIT, MANHOLE	
EXISTING STORMWATER	
PROPOSED SEWER MAIN	
EXISTING SEWER MAIN	
PROPOSED SEWER RISING MAIN	
PROPOSED WATER MAIN	
EXISTING WATER MAIN	
FIRE HYDRANT, SLUICE VALVE	
PAVILIONS	

- NOTES:**
1. ALL CONNECTIONS TO EXISTING SEWER AND WATER SHALL BE MADE BY ICONWATER AT THE CONTRACTORS EXPENSE.
 2. UNLESS OTHERWISE NOTED WATERMANS SHALL BE CLASS PN16 PVC WITH JOINTS COMPATIBLE WITH DUCTILE IRON PIPES AND FITTINGS. PLACE TRACING WIRE ON ALL PVC PIPES

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Rev	Amendments	Approved	Date
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A	ISSUED FOR APPROVAL	CJC	29/05/23



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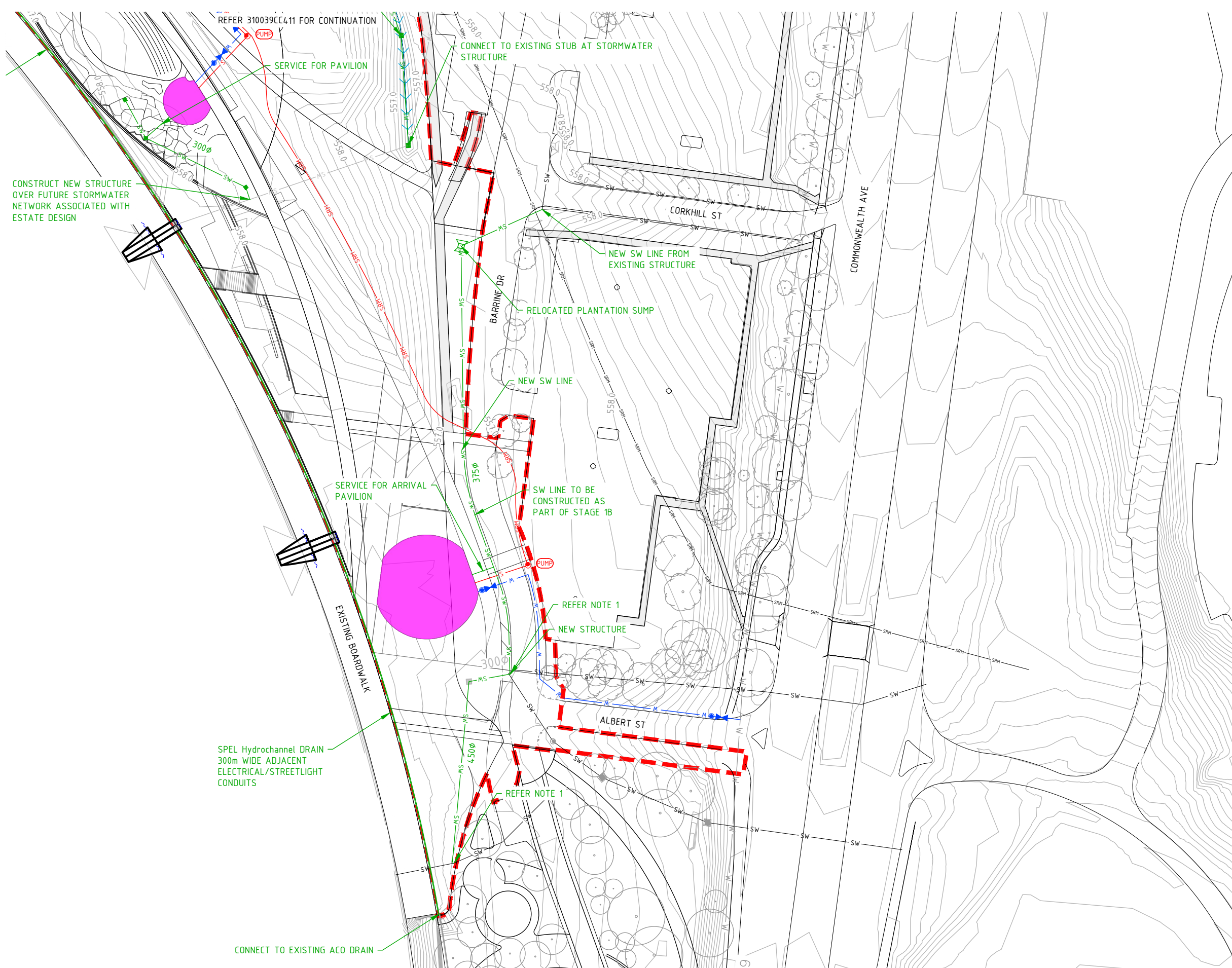
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Authorised SB	Date 29/05/2023

ACTON WATERFRONT WORKS APPROVAL
HYDRAULICS - SEWER AND WATER PLAN
SHEET 2
ACT
CITY RENEWAL AUTHORITY

PRELIMINARY Drg No: 310039CC411 Rev: B

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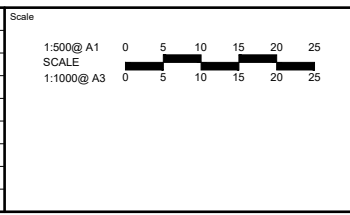


LEGEND

EXTENT OF WORKS	
EXISTING TREE TO BE RETAINED	
FINISHED SURFACE CONTOURS (1m INTERVAL)	
PROPOSED STORMWATER PIPE	
PROPOSED SPEL Hydrchannel GRATE	
PROPOSED GRASSED SWALE	
PROPOSED STORMWATER PIT, MANHOLE	
EXISTING STORMWATER	
PROPOSED SEWER MAIN	
EXISTING SEWER MAIN	
PROPOSED SEWER RISING MAIN	
PROPOSED WATER MAIN	
EXISTING WATER MAIN	
FIRE HYDRANT, SLUICE VALVE	
PAVILIONS	

- NOTES:**
- EXISTING STORMWATER STRUCTURES TO BE RAISED TO SUIT PROPOSED DESIGN SURFACE
 - FOR DEVELOPMENT STORMWATER DETAILS REFER TO INDESCO'S STORMWATER PLANS.
 - STORMWATER PIPE SIZES SHOWN ARE INDICATIVE ONLY, FINAL PIPE SIZES TO BE DETERMINED AT DETAILED DESIGN.

Rev	Amendments	Approved	Date
B	UPDATE LEGEND	CJC	08/06/23
A	ISSUED FOR APPROVAL	CJC	29/05/23



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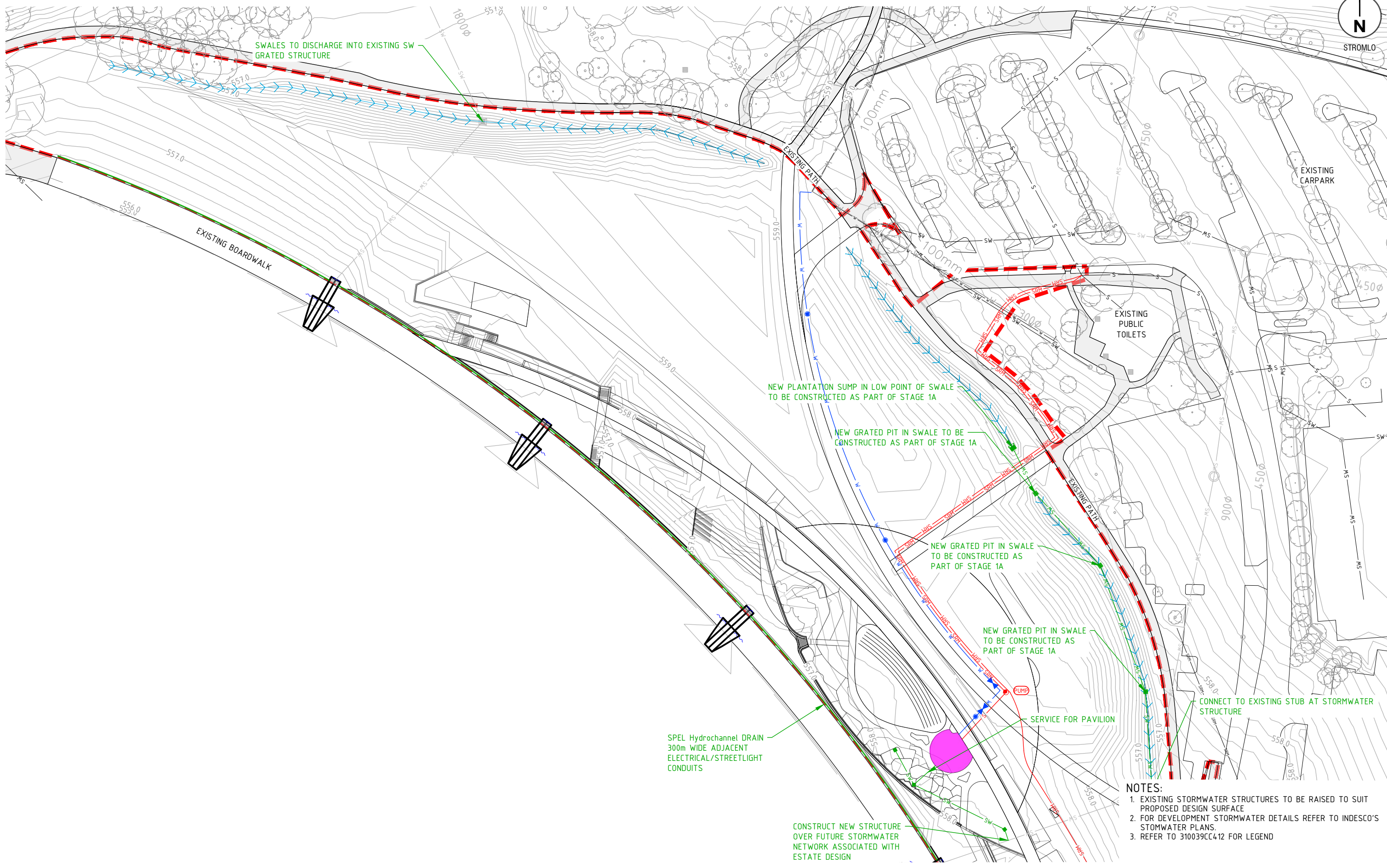
Checked
CO

Authorised
SB

Date
29/05/2023

ACTON WATERFRONT WORKS APPROVAL
 HYDRAULICS - STORMWATER PLAN
 SHEET 3
 ACT CONSTRUCTION CERTIFICATE

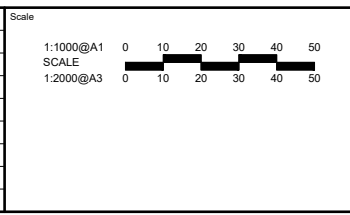
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- NOTES:**
1. EXISTING STORMWATER STRUCTURES TO BE RAISED TO SUIT PROPOSED DESIGN SURFACE
 2. FOR DEVELOPMENT STORMWATER DETAILS REFER TO INDESCO'S STOMWATER PLANS.
 3. REFER TO 310039CC412 FOR LEGEND

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Rev	Amendments	Approved	Date
B	UPDATE LEGEND	CJC	06/06/23
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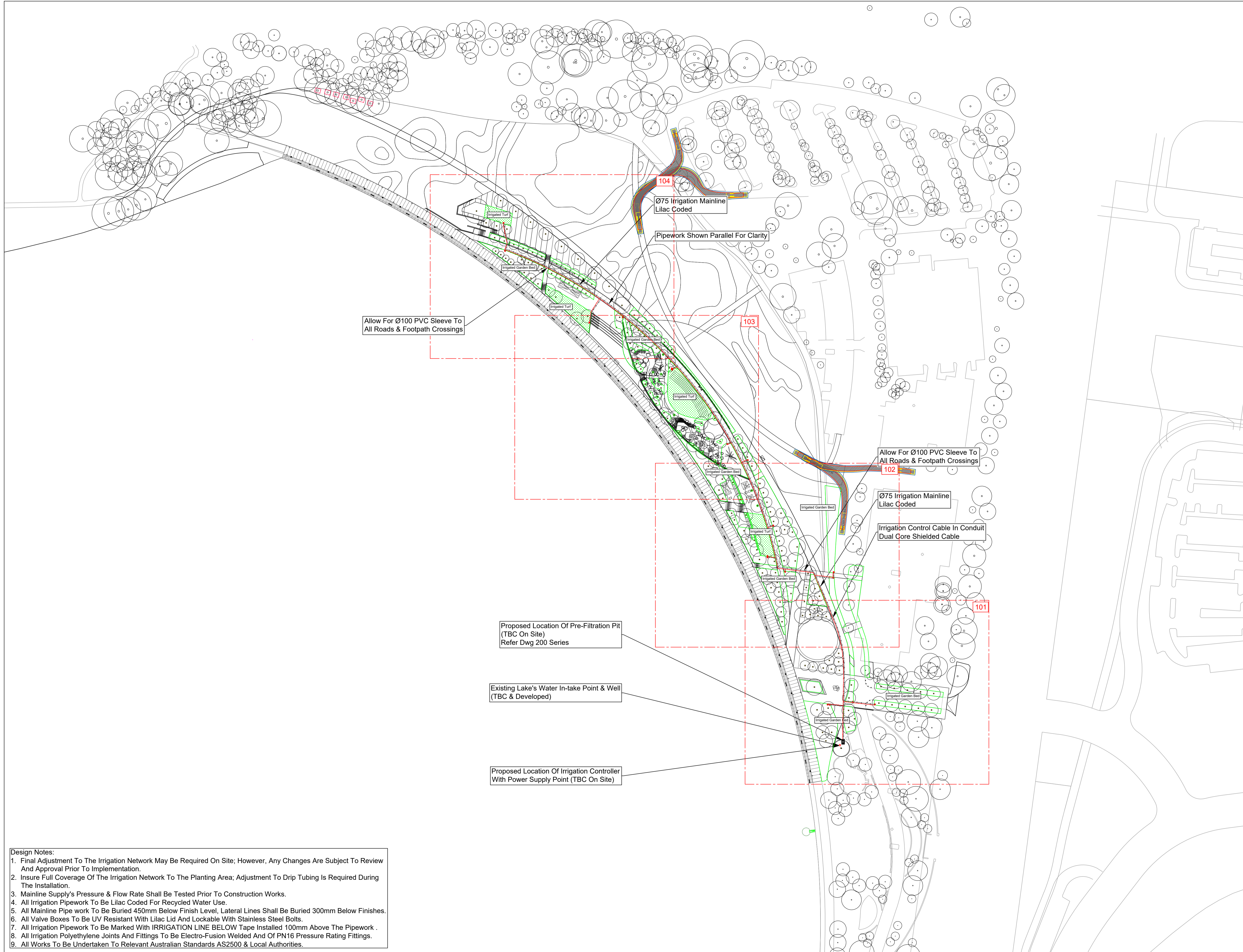
Authorised
SB

Checked
CO

Date
29/05/2023

ACTON WATERFRONT WORKS APPROVAL
HYDRAULICS - STORMWATER PLAN
SHEET 4
ACT
CONSTRUCTION CERTIFICATE

PRELIMINARY Drg No **310039CC413** Rev **B**



- Design Notes:**
1. Final Adjustment To The Irrigation Network May Be Required On Site; However, Any Changes Are Subject To Review And Approval Prior To Implementation.
 2. Insure Full Coverage Of The Irrigation Network To The Planting Area; Adjustment To Drip Tubing Is Required During The Installation.
 3. Mainline Supply's Pressure & Flow Rate Shall Be Tested Prior To Construction Works.
 4. All Irrigation Pipework To Be Lilac Coded For Recycled Water Use.
 5. All Mainline Pipe work To Be Buried 450mm Below Finish Level, Lateral Lines Shall Be Buried 300mm Below Finishes.
 6. All Valve Boxes To Be UV Resistant With Lilac Lid And Lockable With Stainless Steel Bolts.
 7. All Irrigation Pipework To Be Marked With IRRIGATION LINE BELOW Tape Installed 100mm Above The Pipework .
 8. All Irrigation Polyethylene Joints And Fittings To Be Electro-Fusion Welded And Of PN16 Pressure Rating Fittings.
 9. All Works To Be Undertaken To Relevant Australian Standards AS2500 & Local Authorities.



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REV	DESCRIPTION	DATE
A	PRELIMINARY - 75% DOCUMENTATION	07/12/2022
B	75% DOCUMENTATION - REVISED LANDSCAPE	14/12/2022
C	STAGE 1B ISSUE	16/05/2023

PROJECT
**ACTON WATERFRONT PARK
 ACTON, ACT**
 STAGE 1B LANDSCAPE
 IRRIGATION WORKS



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Date: 07/06/2022 Scale: 1:1000 @ A1
 Designed: S.Salem Drawn: A.L.

Sheet Title
GENERAL ARRANGMENT

Sheet No.
AWP-1B.IR2112.100 Rev. **C**

LEGEND

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A	PRELIMINARY - 75% DOCUMENTATION	07/12/2022
B	75% DOCUMENTATION - REVISED LANDSCAPE	14/12/2022
C	STAGE 1B ISSUE	16/05/2023

PROJECT
**ACTON WATERFRONT PARK
 ACTON, ACT**
 STAGE 1B LANDSCAPE
 IRRIGATION WORKS



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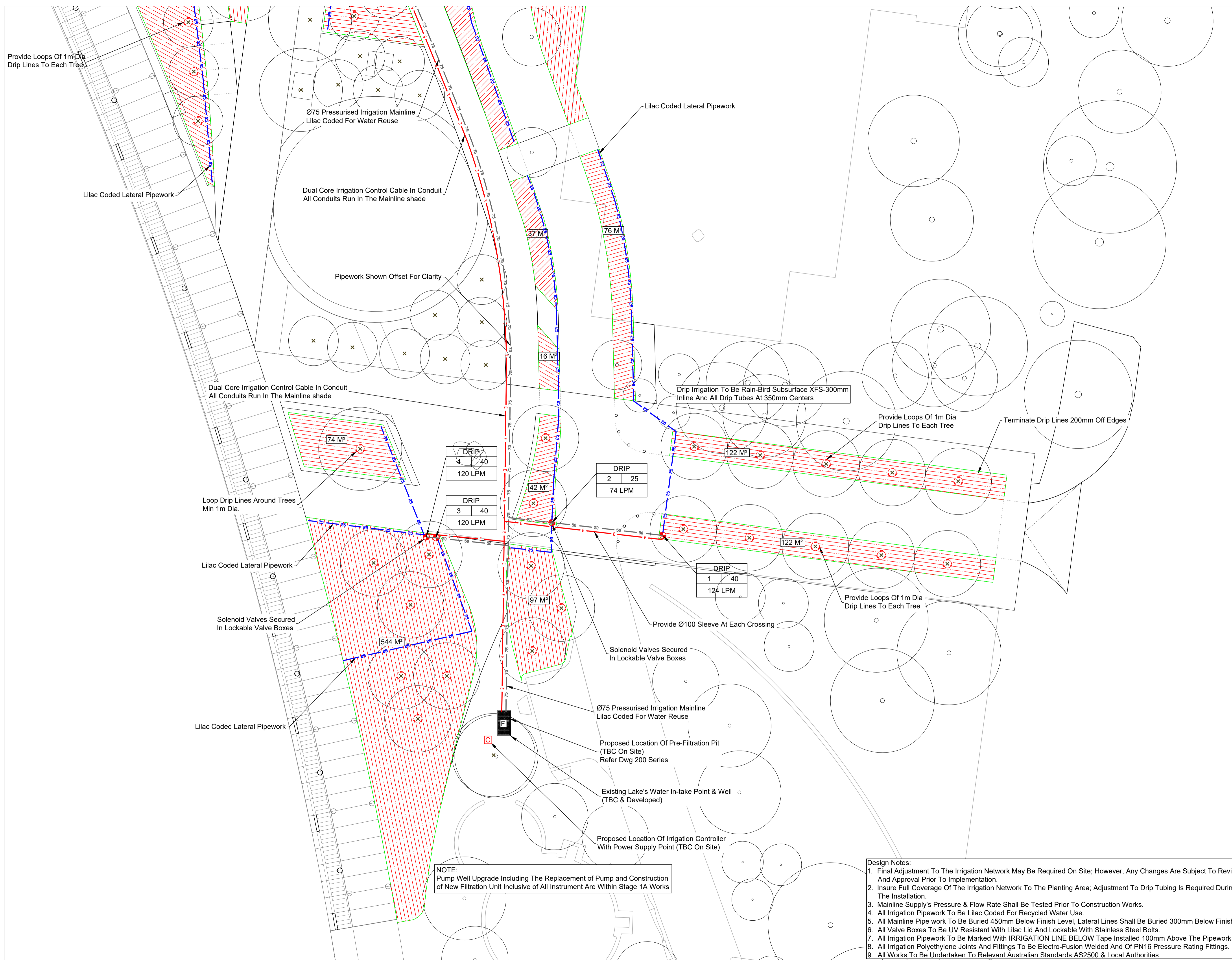
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 Signature: [Signature] Date: 07.12.2022
 Supervisor Certificate # 598895

Date: 07/12/2022 Scale: 1:200 @ A1
 Designed: S.Salem Drawn: A.L.

Sheet Title
IRRIGATION SETOUT PLAN 1
 Sheet No.: AWP-1B-IR2112.101 Rev: C



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A	PRELIMINARY - 75% DOCUMENTATION	07/12/2022
B	75% DOCUMENTATION - REVISED LANDSCAPE	14/12/2022
C	STAGE 1B ISSUE	16/05/2023

PROJECT
**ACTON WATERFRONT PARK
 ACTON, ACT**
 STAGE 1B LANDSCAPE
 IRRIGATION WORKS



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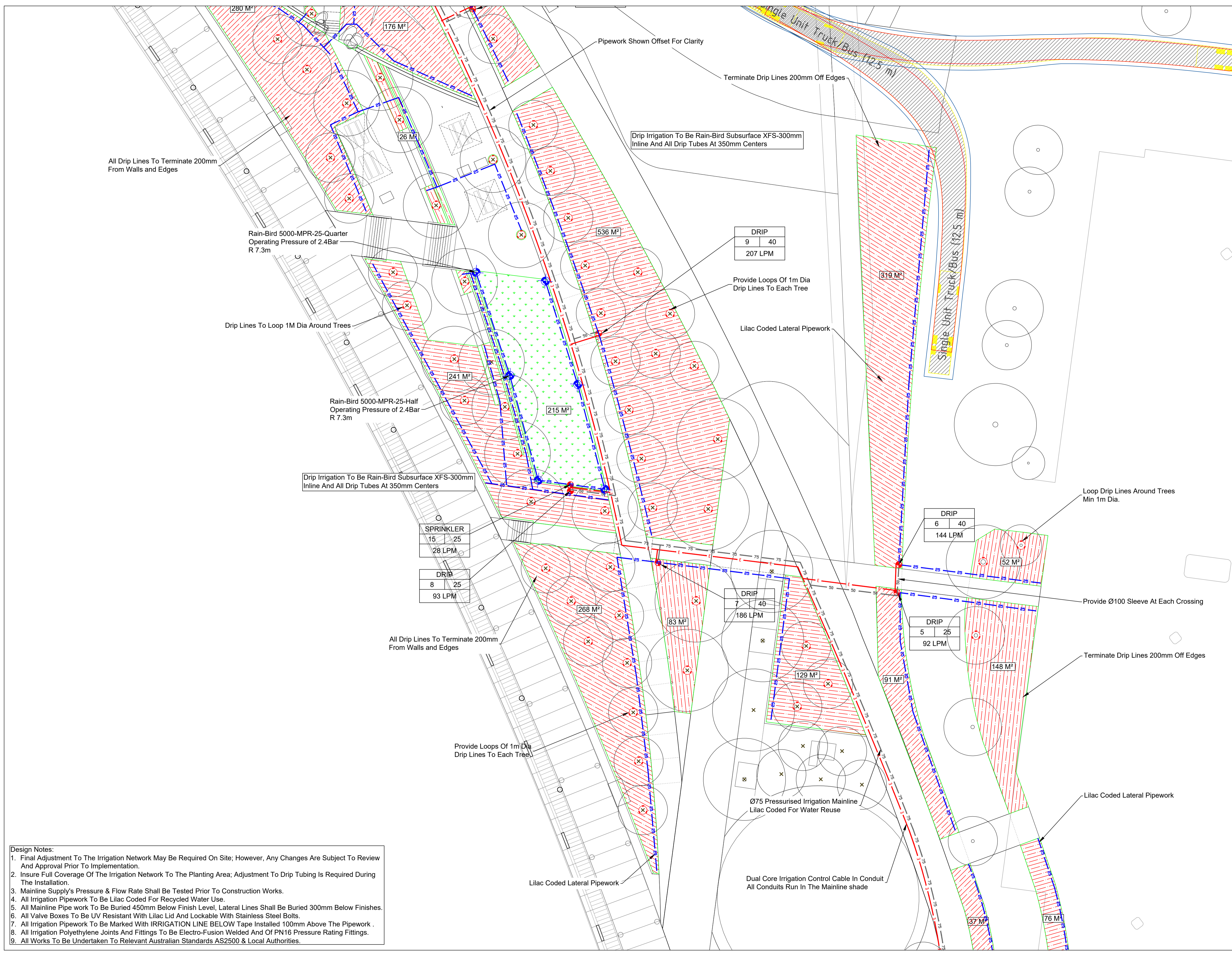
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 Signature: [Signature] Date: 07.12.2022
 Supervisor Certificate # 59889S

Date: 07/12/2022 Scale: 1:200 @ A1
 Designed: S.Salem Drawn: A.L.

Sheet Title
IRRIGATION SETOUT PLAN 2
 Sheet No: AWP-1B.IR2112.101 Rev: C



- Design Notes:**
- Final Adjustment To The Irrigation Network May Be Required On Site; However, Any Changes Are Subject To Review And Approval Prior To Implementation.
 - Insure Full Coverage Of The Irrigation Network To The Planting Area; Adjustment To Drip Tubing Is Required During The Installation.
 - Mainline Supply's Pressure & Flow Rate Shall Be Tested Prior To Construction Works.
 - All Irrigation Pipework To Be Lilac Coded For Recycled Water Use.
 - All Mainline Pipe work To Be Buried 450mm Below Finish Level, Lateral Lines Shall Be Buried 300mm Below Finishes.
 - All Valve Boxes To Be UV Resistant With Lilac Lid And Lockable With Stainless Steel Bolts.
 - All Irrigation Pipework To Be Marked With IRRIGATION LINE BELOW Tape Installed 100mm Above The Pipework .
 - All Irrigation Polyethylene Joints And Fittings To Be Electro-Fusion Welded And Of PN16 Pressure Rating Fittings.
 - All Works To Be Undertaken To Relevant Australian Standards AS2500 & Local Authorities.

Rain-Bird R-VAN Sprayer
Adjustable R-VAN24
R 6.1m



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REV	DESCRIPTION	DATE
A	PRELIMINARY - 75% DOCUMENTATION	07/12/2022
B	75% DOCUMENTATION - REVISED LANDSCAPE	14/12/2022
C	STAGE 1B ISSUE	16/05/2023

PROJECT
**ACTON WATERFRONT PARK
ACTON, ACT**
STAGE 1B LANDSCAPE
IRRIGATION WORKS



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LANDSCAPE ARCHITECT
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ASPECT Studios:
Level 17/40 George St, Sydney NSW 2016
Phone: (02) 9699 7182

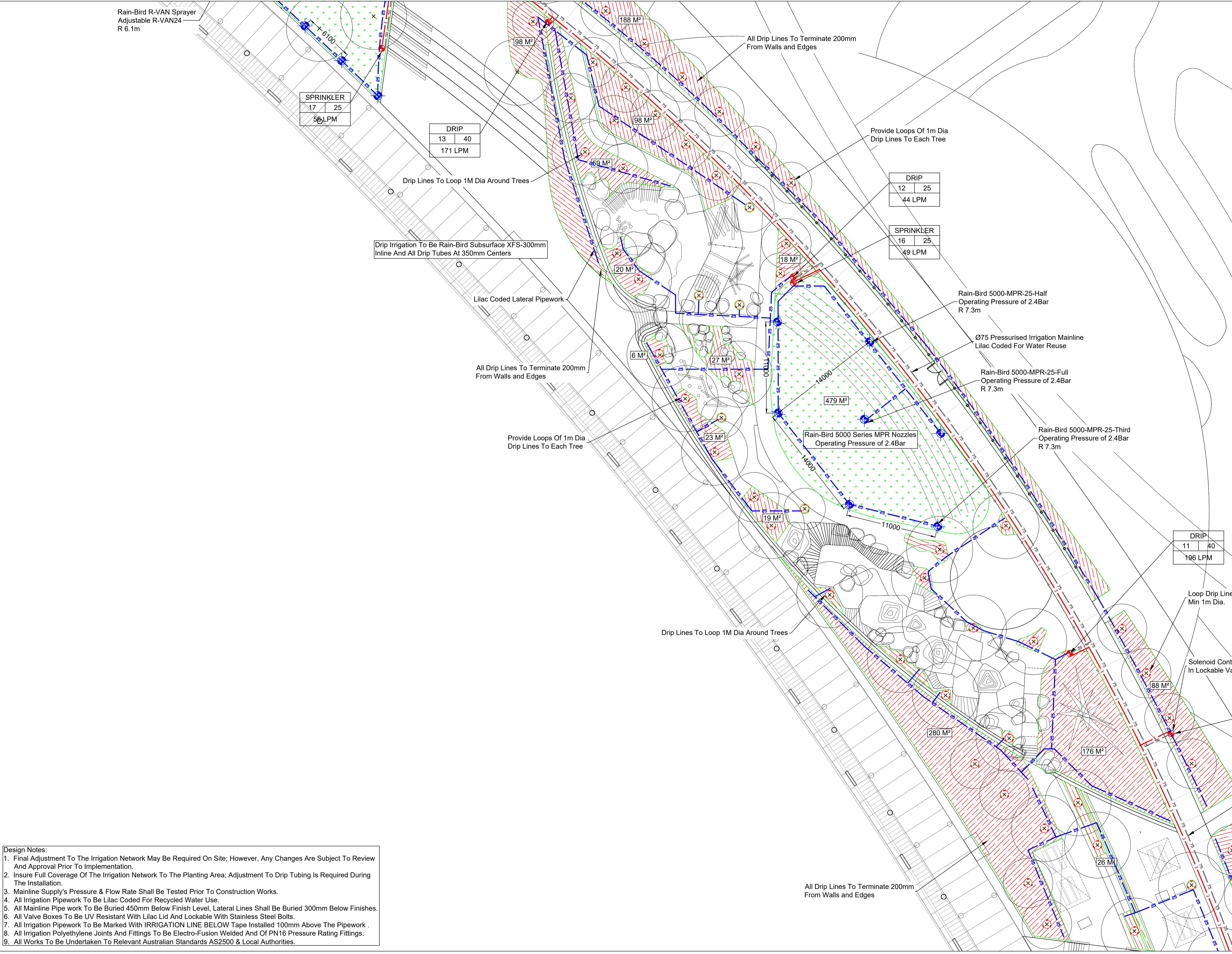
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Bridge42 Pty Ltd:
Level 3/33 Collins Street, Melbourne VIC 3000
Phone: (02) 8676 8180

Hydraulic Engineer
Mr Sayed Salem
B.Sc. Ag. Hyd-F.Mech. Dip. Citg 19446
Signature: [Signature] Date: 07.12.2022
Supervisor Certificate # 59889S

Date: 07/12/2022 Scale: 1:200 @ A1
Designed: S.Salem Drawn: A.L.

Sheet Title
IRRIGATION SETOUT PLAN 3
Sheet No.: AWP-1B.IR2112.103 Rev: C

- Design Notes:**
- Final Adjustment To The Irrigation Network May Be Required On Site; However, Any Changes Are Subject To Review And Approval Prior To Implementation.
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 - All Irrigation Polyethylene Joints And Fittings To Be Electro-Fusion Welded And Of PN16 Pressure Rating Fittings.
 - All Works To Be Undertaken To Relevant Australian Standards AS2500 & Local Authorities.



SPRINKLER	17	25
	56 LPM	

DRIP	13	40
	171 LPM	

DRIP	12	25
	44 LPM	

SPRINKLER	16	25
	49 LPM	

DRIP	11	40
	196 LPM	



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REV	DESCRIPTION	DATE
A	PRELIMINARY - 75% DOCUMENTATION	07/12/2022
B	75% DOCUMENTATION - REVISED LANDSCAPE	14/12/2022
C	STAGE 1B ISSUE	16/05/2023

PROJECT
**ACTON WATERFRONT PARK
 ACTON, ACT**
 STAGE 1B LANDSCAPE
 IRRIGATION WORKS



PROJECT ARCHITECT
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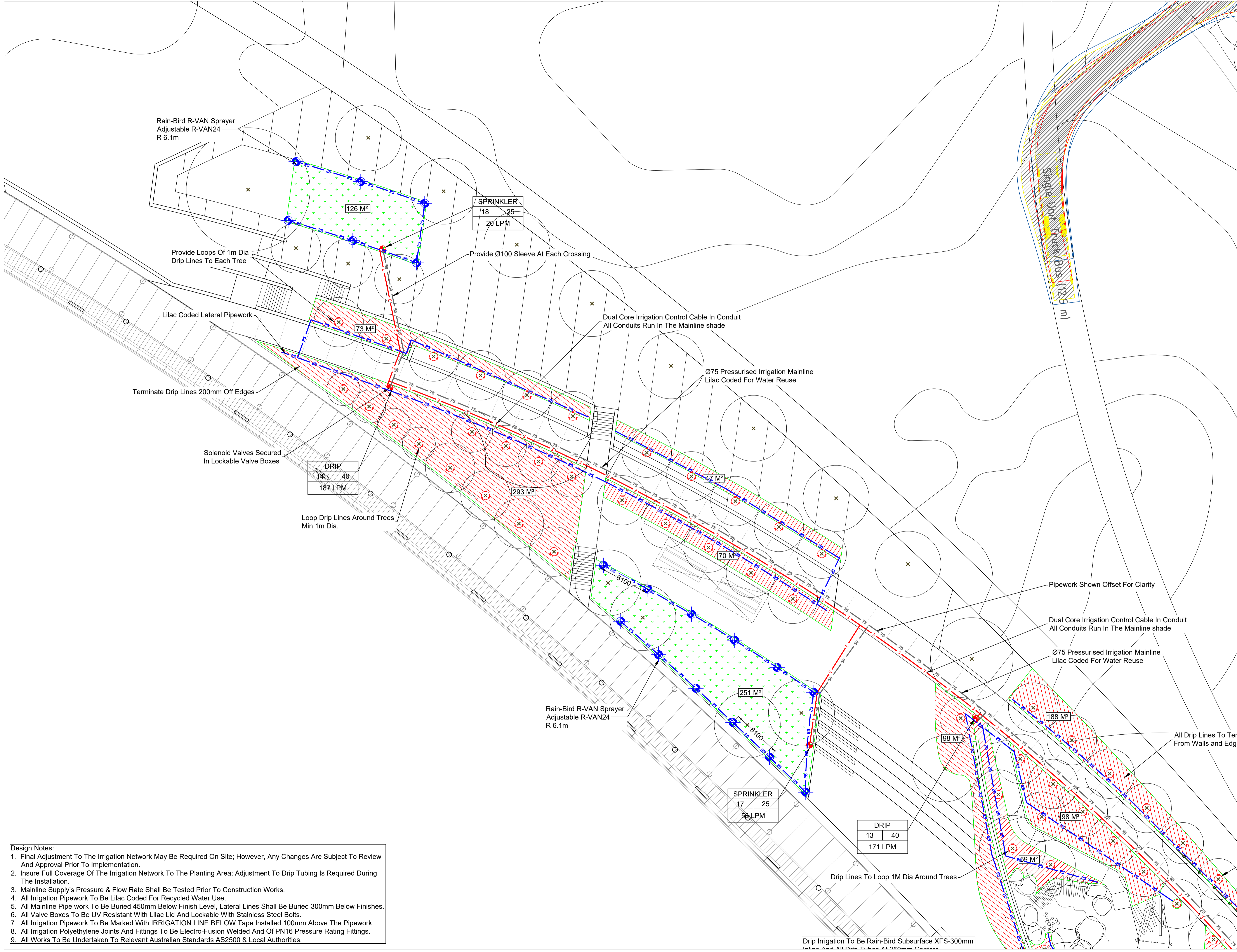
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Hydraulic Engineer
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 Signature: [Signature] Date: 07.12.2022
 Supervisor Certificate # 59895S

Date: 07/12/2022 Scale: 1:200 @ A1
 Designed: S.Salem Drawn: A.L.

Sheet Title
IRRIGATION SETOUT PLAN 4
 Sheet No: AWP-1B-IR2112.104 Rev: C



- Design Notes:**
- Final Adjustment To The Irrigation Network May Be Required On Site; However, Any Changes Are Subject To Review And Approval Prior To Implementation.
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 - All Irrigation Polyethylene Joints And Fittings To Be Electro-Fusion Welded And Of PN16 Pressure Rating Fittings.
 - All Works To Be Undertaken To Relevant Australian Standards AS2500 & Local Authorities.

IRRIGATION VALVE SCHEDULE

APPLICATION	VALVE NUMBER	VALVE SIZE (MM)	FLOW RATE (LPM)	PRODUCT	
GARDEN BED (DRIP IRRIGATION)	V1	Ø40	124	318	
	V2	Ø25	74		
	V3	Ø40	120		
	V4	Ø40	120	356	
	V5	Ø25	92		
	V6	Ø40	144	279	
	V7	Ø40	186	RAIN-BIRD SUBSURFACE XFS 300mm DRIP TUBING 2.3LPH. DRIP LINES TO ALIGN 350MM APART	
	V8	Ø25	93		
	V9	Ø40	207		
	V10	Ø40	107		
	V11	Ø40	196		
	V12	Ø25	44		
	V13	Ø40	171		
	V14	Ø40	187		
TURF (SPRAY IRRIGATION)	V15	Ø25	28		RAIN-BIRD 5000 SERIES ROTORS WITH 12" POP UP S.STEEL RISER MPR-25 AND R-VAN 24 NOZZLES OPERATING PRESSURE OF 2.4BAR
	V16	Ø25	49		
	V17	Ø25	56		
	V18	Ø25	20		
MAIN TAPPING	MV	Ø80	360	MASTER VALVE	



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REV	DESCRIPTION	DATE
A	PRELIMINARY - 75% DOCUMENTATION	07/12/2022
B	STAGE 1B ISSUE	16/05/2023

PROJECT:
**ACTON WATERFRONT PARK
 ACTON, ACT**
 STAGE 1B LANDSCAPE
 IRRIGATION WORKS



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 Supervisor Certificate # 598895

Date: 07/12/2022 Scale: NTS @ A1
 Designed: S.Salem Drawn: A.L.

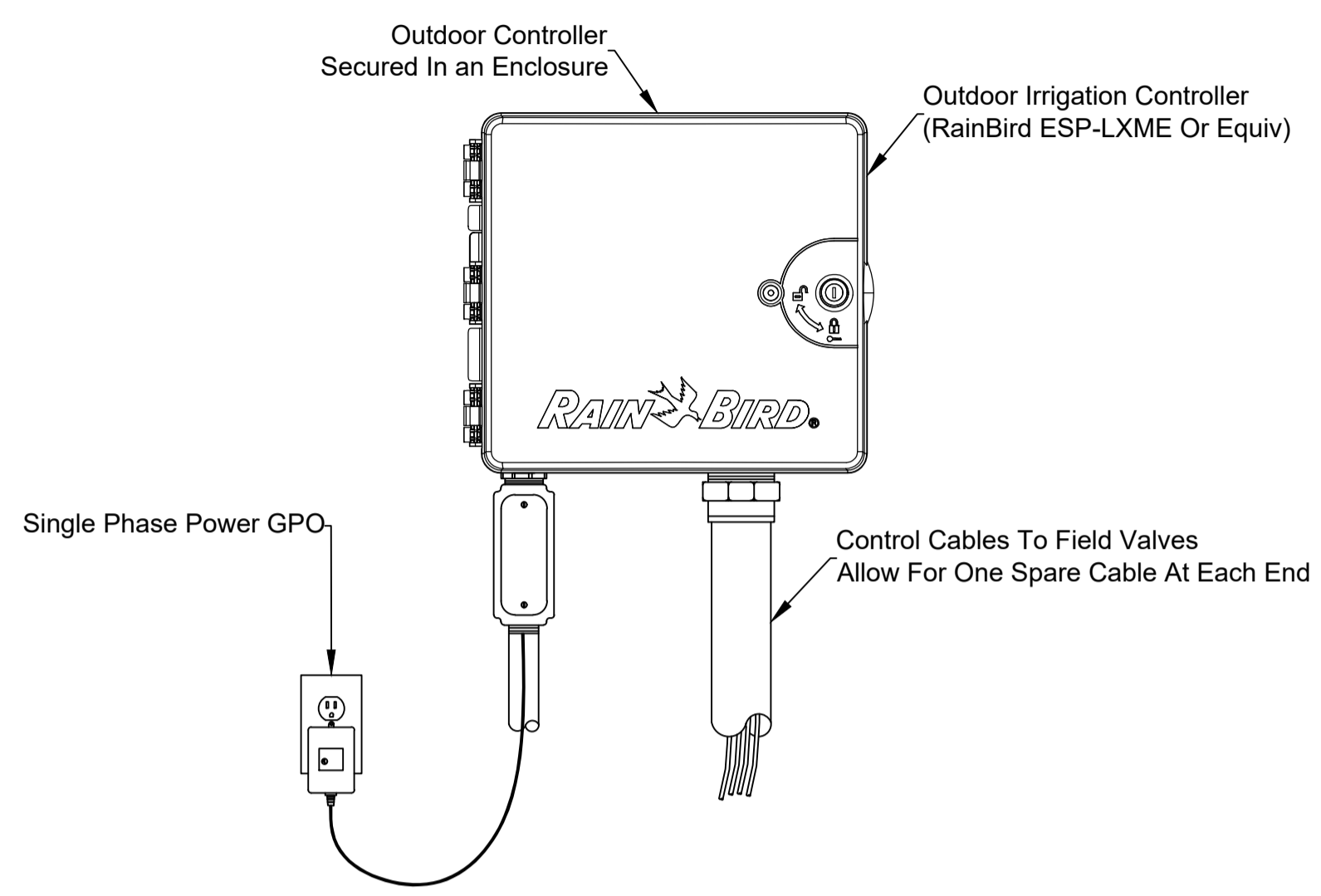
Sheet Title:
IRRIGATION VALVE SCHEDULE
 Sheet No.: AWP-1B.IR2112.300 Rev: B

- Design Notes:**
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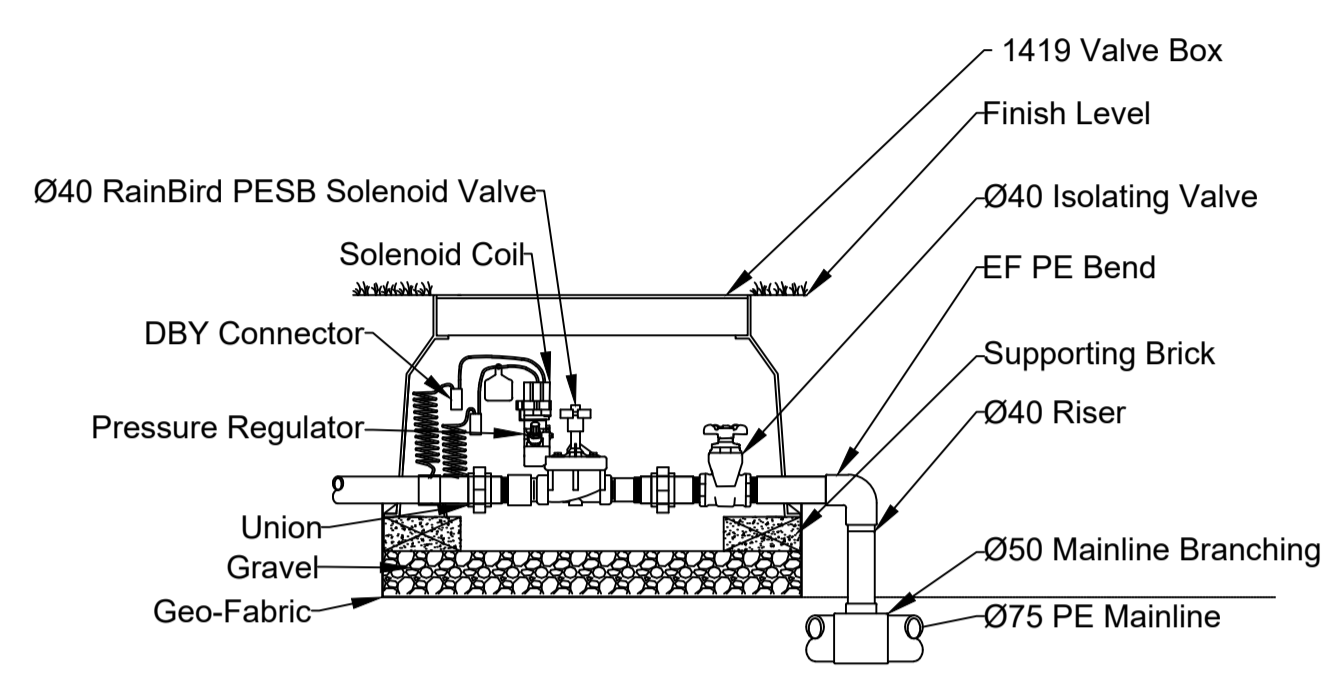
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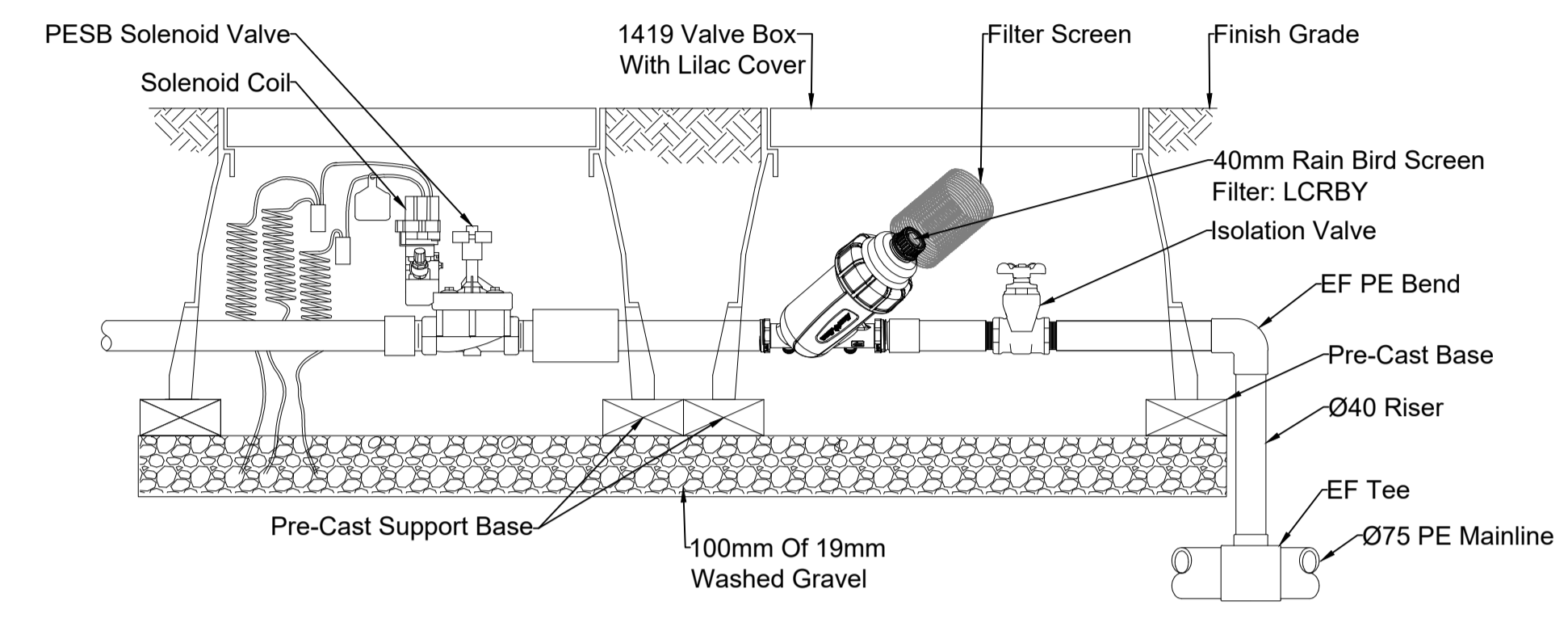
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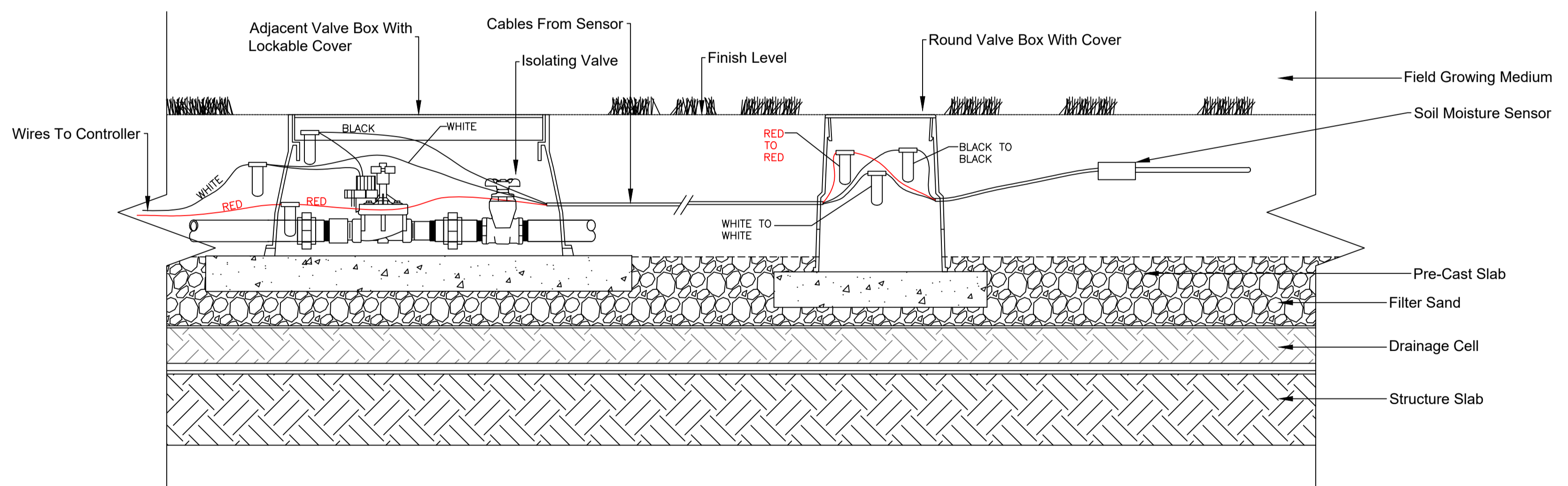
1 IRRIGATION CONTROLLER
SCHEMATICS NTS



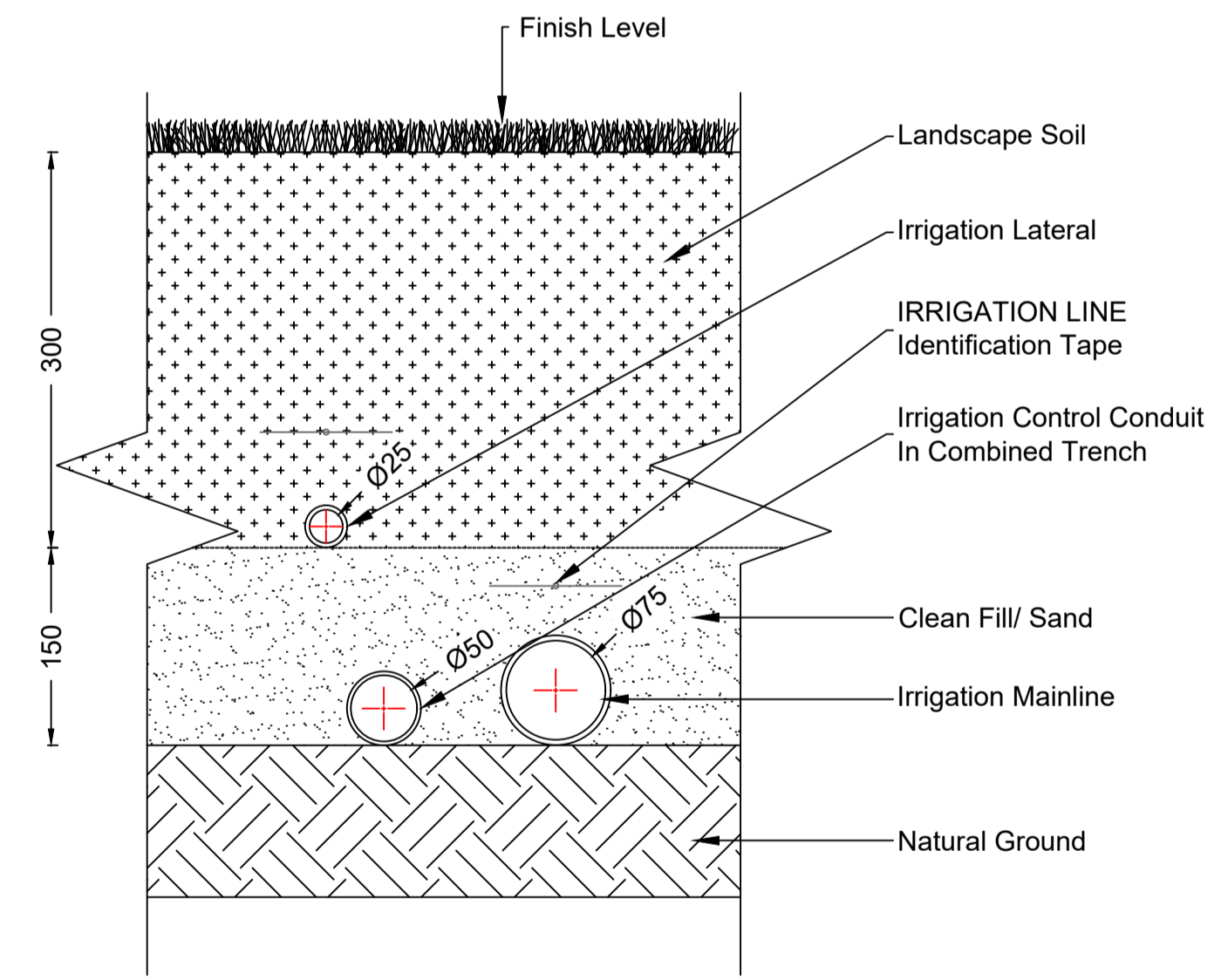
2 SOLENOID VALVE ASSEMBLY
SPRAYERS NTS



3 TYPICAL SOLANOID VALVE ASSEMBLY
DRIP IRRIGATION NTS



4 SOIL MOISTURE SENSOR ASSEMBLY
TYPICAL Scale NTS



5 COMBINED TRENCH DETAIL
TYPICAL Scale NTS

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A	PRELIMINARY - 75% DOCUMENTATION	07/12/2022
B	STAGE 1B ISSUE	16/05/2023

PROJECT



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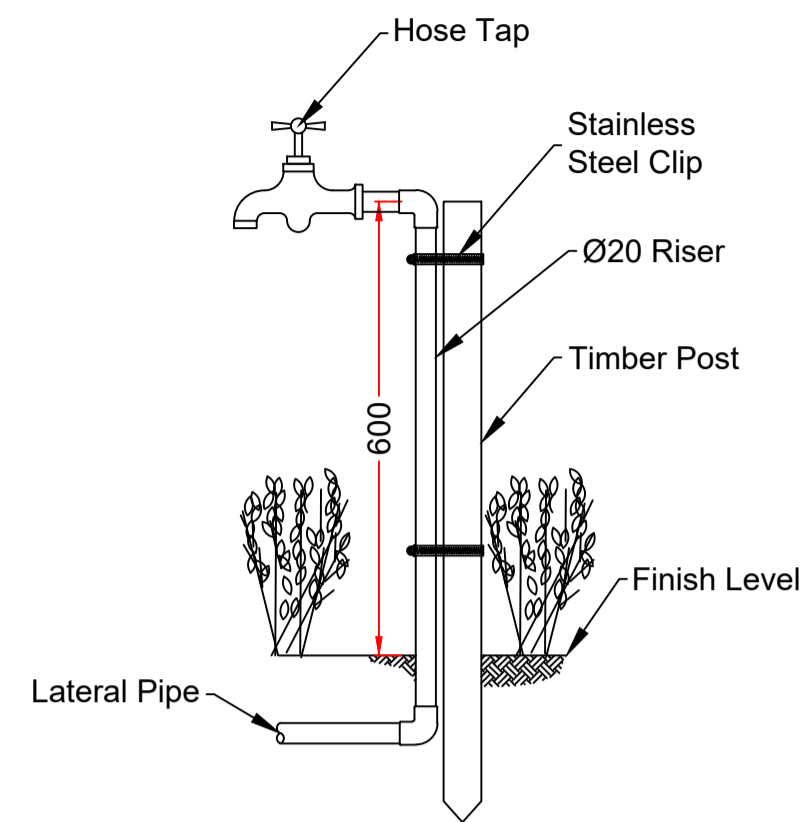
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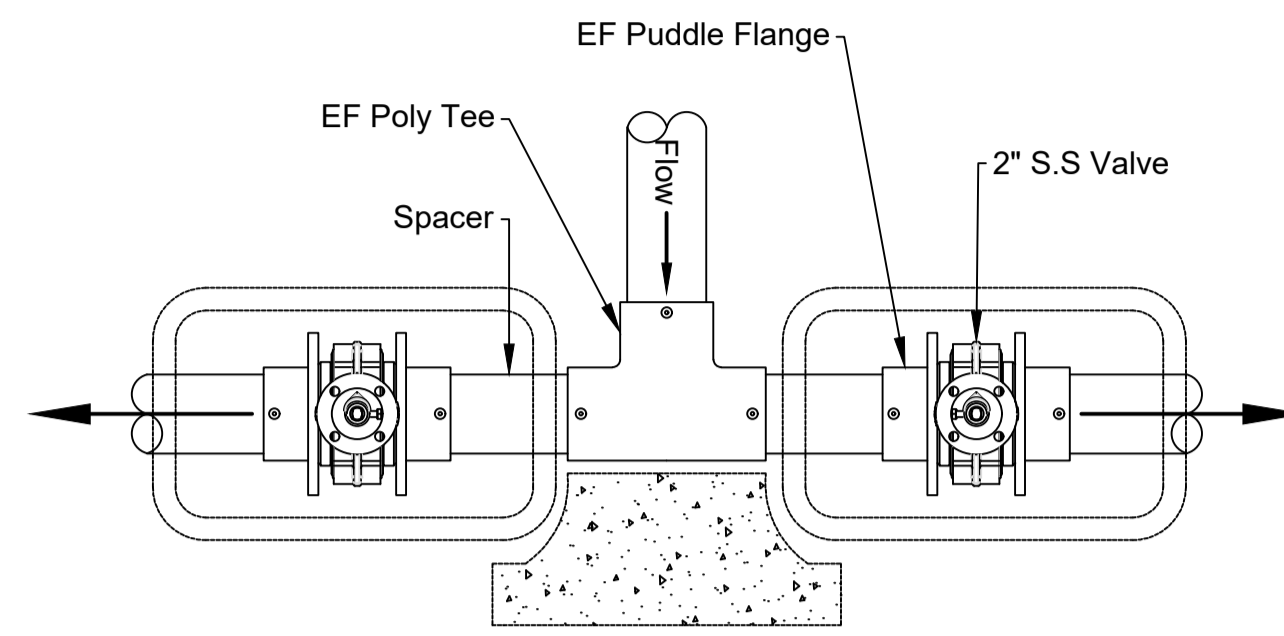
Hydraulic Engineer
Mr Sayed Salem
 B.Sc.Agr. Hyd.Ft.Mech. Dipht. Citg.19446
 Signature: [Signature] Date: 07.12.2022
 Supervisor Certificate # 59899S

Date: 07/12/2022 Scale: NTS @ A1
 Designed: S.Salem Drawn: A.L.

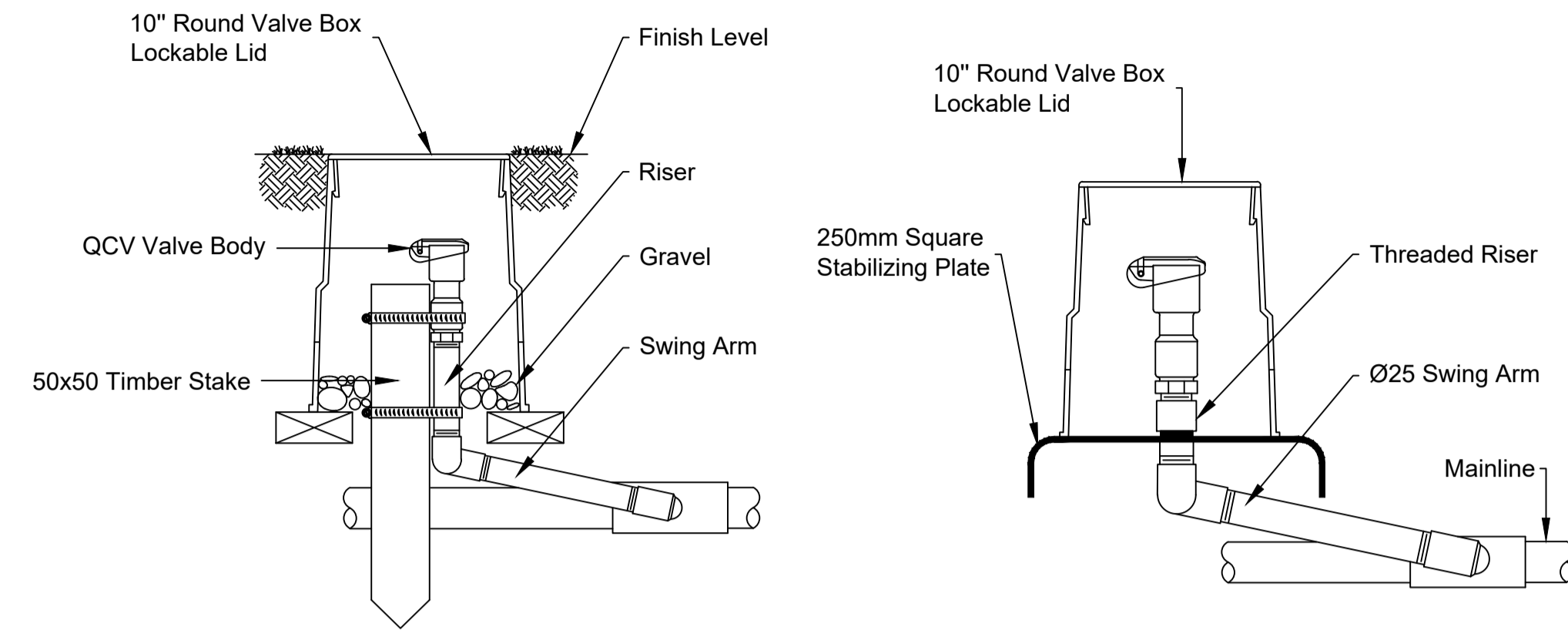
Sheet Title: **IRRIGATION DETAILS**
 Sheet No: AWP-1B.IR2112.301 Rev: B



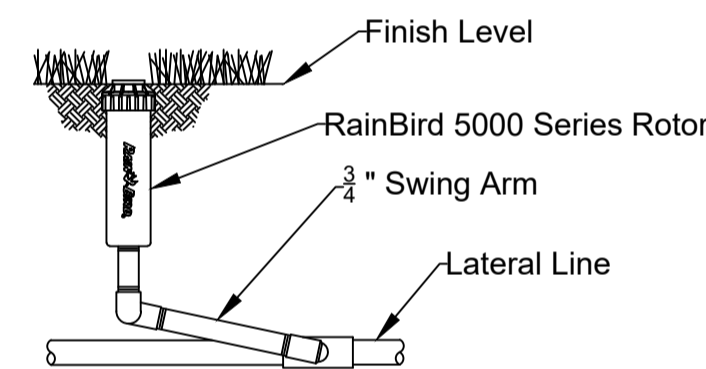
6 HOSE TAP ASSEMBLY
TYPICAL NTS



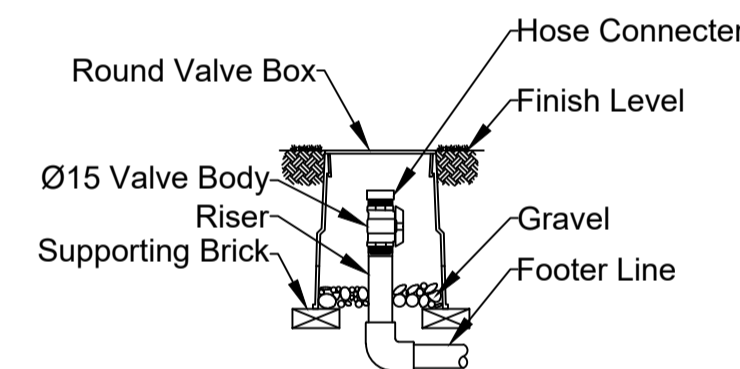
7 MAINLINE ISOLATION VALVES
TYPICAL NTS



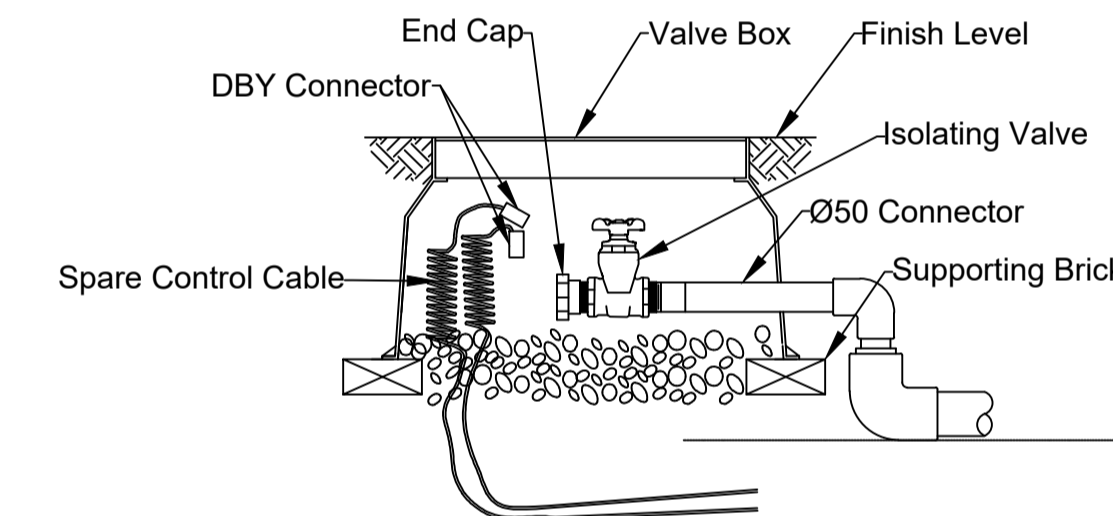
8 QUICK COUPLING VALVE
TYPICAL ASSEMBLY Scale NTS



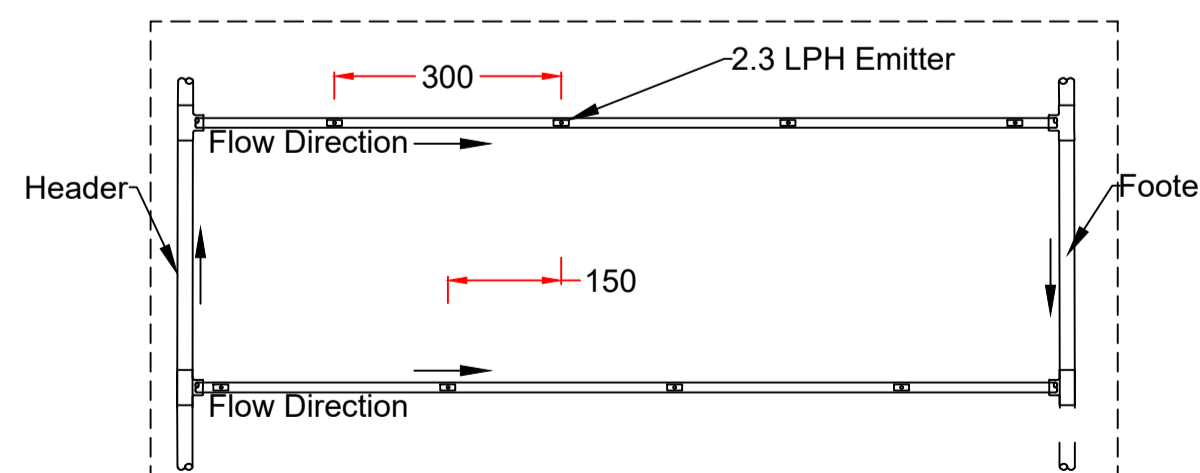
9 SPRAY BODY ASSEMBLY
TYPICAL NTS



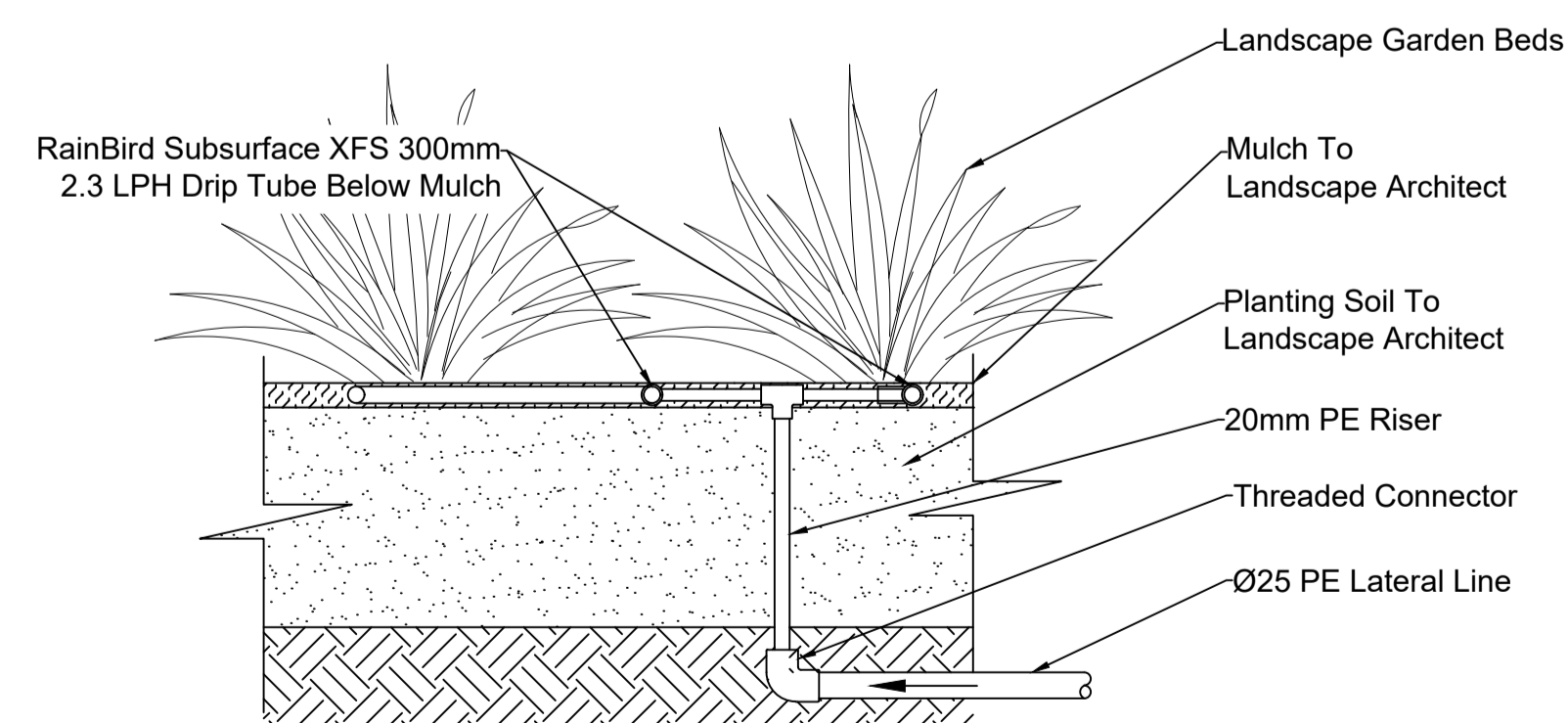
10 DRIP FLUSH VALVE
SCHEMATICS NTS



11 CAPPED VALVE ASSEMBLY
SCHEMATICS NTS



12 DRIP IRRIGATION ASSEMBLY
SCHEMATICS NTS



13 DRIP LINE SYSTEM
DRIP IRRIGATION NTS

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Signature: _____ Date: 07.12.2022
Supervisor Certificate # 59889S

Date: 07/12/2022 Scale: NTS @ A1
Designed: S.Salem Draw: A.L.

Sheet Title
IRRIGATION DETAILS
Sheet No. AWP-1B.IR2112.302 Rev. B