MULTIPLE SPORTING FIELDS IRRIGATION - ROCKHAMPTON CRICKET GROUND

45 REANEY STREET, THE COMMON QLD 4701

DRAWING SCHEDULE:

F000	COVER SHEET
F500	IRRIGATION LAYOUT PLAN - SHEET 1 OF 2
F501	IRRIGATION LAYOUT PLAN - SHEET 2 OF 2
F525	IRRIGATION LEGEND, NOTES & SCHEDULE
F550	IRRIGATION DETAILS

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Preliminary Approval No.: D/42-2026

Dated: 28 May 2026

LOCALITY PLAN - 45 REANEY STREET, THE COMMON QLD 4701

OVERALL SITE LAYOUT PLAN

NOT FOR CONSTRUCTION

Issue	Date	By	Chkd	Appd
T1	11/09/20	TFI	NM	JDH
TENDER ISSUE				

SPORTENG™

Rockhampton Regional Council

Job Title
MULTIPLE SPORTING FIELDS IRRIGATION - ROCKHAMPTON CRICKET GROUND

Drawing Title
COVER SHEET

-

Discipline
IRRIGATION

Drawing Status
TENDER

Job No	Drawing No	Issue
20004-00	F000	T1

PLOT DATE: 11/09/2020 PLOT TIME: 2:22 PM FILE PATH: C:\12dS\data\SERVER\20004-00 Multiple Sporting Fields Irrigation_269\02_Internal Project Data\Drawings\SHEETS\x Rockhampton Cricket Ground\F000.dwg

REFER TO DRAWING F501 FOR CONTINUATION

FIELD #3

EXISTING SHED

28B 3.37 40mm

PE100 PN12.5 SUPPLY MAINLINE

NORMALLY CLOSED VALVE LINKING MV

FLOW SENSOR & MASTER VALVE

WATER STORAGE TANK

EXISTING PAVILION

PUMPSETS 2 x 12 LPS @ 600kPA

FLOW SENSOR & MASTER VALVE

PE100 PN12.5 SUPPLY MAINLINE

EXISTING SPORTS LIGHTING.

EXISTING FENCE (TYP.).

EXISTING TREE AND CANOPY (TYP.).

TOP OF BANK (TYP.).

CHANGE OF GRADE (TYP.).

PE100 PN12.5 MAINLINE (TYP.)

MAINLINE ISOLATION VALVES (TYP.)

30A 6.74 50mm

27B 5.62 50mm

18B 6.74 40mm

NO VALVES ARE TO BE INSTALLED WITHIN 1.5M OF PLAYING SURFACE UNLESS OTHERWISE NOTED.

15A 4.49 40mm

EXISTING FENCE (TYP).

14A 5.62 50mm

NO VALVES ARE TO BE INSTALLED WITHIN 1.5M OF PLAYING SURFACE UNLESS OTHERWISE NOTED.

11B 5.62 50mm

SOLENOID CONTROL VALVE (TYP.)

9A 4.49 50mm

31B 3.15 40mm

PE100 PN12.5 MAINLINE (TYP.)

7B 3.37 40mm

PE100 PN12.5 MAINLINE (TYP.)

VALVE BOXES LOCATED WITHIN PLAYING FIELDS MUST BE BURIED 200mm WITH METAL PLATE ON TOP OF LID (TYP.)

8A 4.49 50mm

8B 5.62 50mm

5B 4.49 50mm

10A 5.62 50mm

7A 4.49 50mm

EXISTING SHED

4B 5.62 50mm

7C 4.49 40mm

12A 3.37 50mm

3B 4.49 50mm

13A 2.93 50mm

13B 2.93 50mm

15B 6.74 50mm

2B 4.05 40mm

1B 4.05 40mm

FIELD #2

FIELD #1

2N° BACK-TO-BACK HUNTER I-25 PART CIRCLE SPRINKLER.

12B 3.37 50mm

11A 4.49 50mm

6C 4.49 50mm

17B 4.51 40mm

9B 6.74 50mm

VALVE BOXES LOCATED WITHIN PLAYING FIELDS MUST BE BURIED 200mm WITH METAL PLATE ON TOP OF LID (TYP.)

3A 6.74 50mm

1A 4.05 40mm

2A 4.05 40mm

6B 4.49 50mm

10B 5.39 50mm

6A 3.15 50mm

PE100 PN12.5 MAINLINE (TYP.)

16B 5.62 50mm

14B 6.52 50mm

MAINLINE FLUSHING VALVE (TYP.)

4A 5.62 50mm

NO VALVES ARE TO BE INSTALLED WITHIN 1.5M OF PLAYING SURFACE UNLESS OTHERWISE NOTED.

AIR RELEASE VALVE (TYP.)

16A 5.62 50mm

5A 5.17 50mm

MAINLINE FLUSHING VALVE (TYP.)

17A 6.08 50mm

EXISTING PAVILION

NO VALVES ARE TO BE INSTALLED WITHIN 1.5M OF PLAYING SURFACE UNLESS OTHERWISE NOTED.

EXISTING GRANDSTAND

EXISTING FENCE.

EXISTING SPORTS LIGHTING.

EXISTING PAVILION

ELECTRICAL CUBICLE.
EXISTING IRRIGATION CONTROLLER LOCATED ON SIDE OF THE ELECTRICAL CUBICLE.
NEW MAIN OVAL AND SOUTHERN OVAL CONTROLLER TO BE LOCATED WITHIN CABINET.

EXISTING SHED

EXISTING PAVILION

EXISTING SPECTATOR SEATING.

EXISTING TREE AND CANOPY (TYP.)

NOTES:

1. REFER TO DRAWING F525 FOR LEGEND.

TYPICAL SPACING:

PRECIPATION RATE = 14.9mm/hr
CU = 93%
DU = 91%
SC = 1.2

16.5m

16.5m

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Preliminary Approval No.: D/42-2026

Dated: 28 May 2026

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATELY SHOWN ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

NOT FOR CONSTRUCTION

N

Issue	Date	By	Chkd	Appd
T1	11/09/20	TFI	NM	JDH
TENDER ISSUE				

SPORTENG™

Rockhampton Regional Council

Job Title
MULTIPLE SPORTING FIELDS IRRIGATION - ROCKHAMPTON CRICKET GROUND

Drawing Title
IRRIGATION LAYOUT PLAN - SHEET 1 OF 2

0 5m 10m 15m 20m 25m
SCALE 1:400 @ A1

Discipline
IRRIGATION

Drawing Status
TENDER

Job No	Drawing No	Issue
20004-00	F500	T1

ROCKHAMPTON REGIONAL COUNCIL

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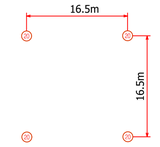
NOTES:

1. REFER TO DRAWING F525 FOR LEGEND.

TYPICAL SPACING:

PRECIPATION RATE = 14.9mm/hr
CU = 93%
DU = 91%
SC = 1.2



NO VALVES ARE TO BE INSTALLED WITHIN 1.5M OF PLAYING SURFACE

EXISTING FENCE (TYP).

EXISTING SHED (TYP).

EXISTING FENCE (TYP).

TOE OF BANK (TYP).

TOP OF BANK (TYP).

EXISTING SHED

2N° BACK-TO-BACK HUNTER I-25 PART CIRCLE SPRINKLER.

FIELD #3

FIELD #4

FIELD #1

PE100 PN12.5 MAINLINE (TYP.)

50ø COMBINATION AIR RELEASE VALVE IN A CIRCULAR VALVE BOX.

2N° RING MAIN ISOLATING GATE VALVES.

PE100 PN12.5 SUPPLY MAINLINE

NORMALLY CLOSED ISOLATION VALVE LINKING MAINLINES

FLOW SENSOR & MASTER VALVE

MAINLINE ISOLATION VALVES (TYP.)

SOLENOID CONTROL VALVE (TYP.)

CONTROLLER FOR EASTERN OVALS TO BE LOCATED IN SHED. CONTROLLER TO CONFIRM ON-SITE WITH PROJECT MANAGER.

MAINLINE FLUSHING VALVE (TYP.)

AIR RELEASE VALVE (TYP.)

EXISTING TREE AND CANOPY (TYP).

EXISTING FENCE (TYP).

REFER TO DRAWING F500 FOR CONTINUATION

WARNING

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T1	11/09/20	TFI	NM	JDH
TENDER ISSUE				

SPORTENG™

Rockhampton Regional Council

Job Title
MULTIPLE SPORTING FIELDS IRRIGATION - ROCKHAMPTON CRICKET GROUND

Drawing Title
IRRIGATION LAYOUT PLAN - SHEET 2 OF 2

0 5m 10m 15m 20m 25m
SCALE 1:400 @ A1

Discipline
IRRIGATION

Drawing Status
TENDER

Job No	Drawing No	Issue
20004-00	F501	T1

PLOT DATE: 11/09/2020 PLOT TIME: 2:37 PM FILE PATH: C:\12d\S\data\SERVER\20004-00 Multiple Sporting Fields Irrigation_269\02_Internal Project Data\Drawings\SHEETS\x Rockhampton Cricket Ground\F501.dwg

NOTES

1. CONTRACTOR SHALL CAREFULLY REMOVE AND RETURN TO COUNCIL EXISTING IRRIGATION CONTROLLER.

2. WATER SUPPLY FOR THE IRRIGATION SYSTEM SHALL BE VIA THE EXISTING PUMPED RECYCLED WATER SUPPLY. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR REQUIRED ADJUSTMENTS TO THE PUMP CONTROLLER TO DELIVER A MINIMUM FLOW RATE OF 12.0 L/s AT A DELIVERY PRESSURE OF 600 kPa. CONTRACTOR SHALL CONDUCT A DETAILED ASSESSMENT OF THE DELIVERY PRESSURE AND FLOW TO CONFIRM COMPLIANCE WITH THE DESIGN DUTY.

2.1. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING PUMP-SETS:
SYSTEM 1 - 12 LPS
PUMP No.01: 6.0 LPS @ 600 kPA (LOWARA SV22-06, 7.5kW) (VFD)
PUMP No.02: 6.0 LPS @ 600 kPA (LOWARA SV22-06, 7.5kW)

SYSTEM 2 - 12 LPS
PUMP No.01: 6.0 LPS @ 600 kPA (LOWARA SV22-06, 7.5kW) (VFD)
PUMP No.02: 6.0 LPS @ 600 kPA (LOWARA SV22-06, 7.5kW)

3. THE CONTRACTOR SHALL ALLOW TO SUPPLY, INSTALL AND COMMISSION AN INJECTION DOSING UNIT (FERTIGATION SYSTEM), DIRECTLY DOWNSTREAM OF THE PUMPSET. THE UNIT SHALL BE HOUSED IN A STAND ALONE, VENTILATED CABINET WITH SHELVES FOR STORING CHEMICAL.

4. ALL SPRINKLERS SHALL BE HUNTER I-25-SS-R, POP-UP SPRINKLER WITH CHECK VALVE, STAINLESS STEEL RISER, NOZZLE AS SHOWN WITH A MINIMUM OPERATING PRESSURE OF 415kPa AT THE BASE OF THE SPRINKLER, UNLESS NOTED OTHERWISE. ONLY #20 (DARK BROWN) & #15 (GREY) NOZZLES ARE TO BE USED.

2. THE CONTRACTOR SHALL INSTALL A NEW MASTER VALVE AND FLOW SENSOR DIRECTLY DOWNSTREAM OF EACH PUMPSET.

3. PRIOR TO TRENCHING, THE CONTRACTOR SHALL ACCURATELY PEG THE LOCATION OF ALL ROTOR, VALVE, PIPEWORK AND CONDUIT ROUTES AND CONFIRM WITH THE PROJECT MANAGER.

4. UNDERGROUND SERVICES (I.E. ELECTRICITY, IRRIGATION WATER PIPEWORK, DRAINAGE, ETC.) EXIST IN THE AREA. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THEMSELVES OF THE LOCATION AND EXISTING SERVICES AND MAKE NECESSARY PROVISIONS PRIOR TO COMMENCING TRENCHING.

5. WHERE NECESSARY, BORE BENEATH ALL HARD PAVEMENTS. WHERE PIPEWORK IS BENEATH EXISTING TREE CANOPIES, IT SHALL BE HAND DUG TO PROTECT TREE ROOT SYSTEMS. THE CONTRACTOR SHALL EMPLOY HAND DIGGING OR BORING WHERE INDICATED AND MAKE ALLOWANCE IN TENDER PRICE.

6. ALL SOLENOID CONTROL VALVES SHALL BE HUNTER ICV GLOBE VALVES WITH PVC BARREL UNIONS ON EITHER SIDE FOR EASE OF MAINTENANCE. ALL SOLENOID CONTROL VALVE ASSEMBLIES SHALL BE LOCATED IN A RECTANGULAR VALVE BOX AS CLOSE TO THE EXISTING CONCRETE FOOTPATH AS POSSIBLE FLUSH WITH THE SURROUNDING SURFACE LEVEL.

7. CONTRACTOR SHALL INSTALL DRAIN VALVES AT THE LOWEST POINT OF THE IRRIGATION MAIN LINE DISCHARGING INTO AN ADJACENT STORM WATER PIT.

8. CONTRACTOR SHALL INSTALL 50ø COMBINATION AIR RELEASE VALVES AT THE HIGHEST POINT ON THE IRRIGATION RING MAIN OR DIRECTLY OPPOSITE OVAL SUPPLY LINE.

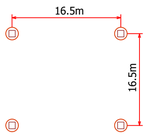
9. THE CONTRACTOR SHALL SUPPLY, INSTALL, PROGRAM AND COMMISSION 2N° HUNTER HYDRAWISE HCC IRRIGATION CONTROLLERS:
   - MAIN AND SOUTHERN OVALS (1 & 2)
   - EASTERN OVALS (3 & 4)

10. THE CONTROLLERS SHALL BE HOUSED IN A STAINLESS STEEL LOCKABLE CABINET.

11. ALL PIPEWORK IS SHOWN INDICATIVELY CONTRACTOR SHALL CONFIRM EXACT LINE ON-SITE.

12. ALL PIPEWORK AND IRRIGATION EQUIPMENT SHALL BE INSTALLED WITH PURPLE I.D. TO IDENTIFY NON-POTABLE WATER IN USE.

TYPICAL SPRINKLER SPACING



CU = 93%
DU = 91%
SC = 1.2

PRECIPITATION RATE = 14.9mm/hr

REFER TO SPECIFICATION FOR FURTHER DETAIL

LEGEND:

110mm PE100 PN12.5 IRRIGATION SUPPLY LINE

110mm PE100 PN12.5 IRRIGATION MAINLINE

75mm PE100 PN12.5 SPRINKLER LATERAL PIPES

ISOLATING GATE VALVE

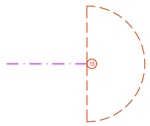
COMBINATION SOLENOID AND ISOLATING GATE VALVE

IRRIGATION ZONE NUMBER AND VALVE DIAMETER

50ø COMBINATION AIR RELEASE VALVE IN A CIRCULAR VALVE BOX

HUNTER I-25-SS-R FULL CIRCLE IRRIGATION SPRINKLER HEAD

HUNTER I-25-SS-R PART CIRCLE ROTOR SPRINKLER HEAD



ROCKHAMPTON REGIONAL COUNCIL

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Dated: 28 May 2026

SYSTEM RUN TIME SCHEDULE:

STN NO.	VALVE NO.	MODEL	SIZE	TYPE	STATION FLOW RATE (L/S)	STN FLOW (LPS)	PRECIPITATION RATE (mm/hr)	APPLICATION TIME (MIN.) 8mm	CUMULATIVE TIME (MIN.)
SYSTEM #1 - FIELDS 1 & 2									
1	1A	Hunter ICV-G	40mm	Turf Rotor	4.05	8.10	29.8	16	16
	1B	Hunter ICV-G	40mm	Turf Rotor	4.05				
2	2A	Hunter ICV-G	40mm	Turf Rotor	4.05	8.10	29.8	16	32
	2B	Hunter ICV-G	40mm	Turf Rotor	4.05				
3	3A	Hunter ICV-G	50mm	Turf Rotor	6.74	11.23	14.9	32	64
	3B	Hunter ICV-G	50mm	Turf Rotor	4.49				
4	4A	Hunter ICV-G	50mm	Turf Rotor	5.62	11.24	14.9	32	97
	4B	Hunter ICV-G	50mm	Turf Rotor	5.62				
5	5A	Hunter ICV-G	50mm	Turf Rotor	5.17	9.66	14.9	32	129
	5B	Hunter ICV-G	50mm	Turf Rotor	4.49				
6	6A	Hunter ICV-G	50mm	Turf Rotor	3.15	12.13	14.9	32	161
	6B	Hunter ICV-G	50mm	Turf Rotor	4.49				
	6C	Hunter ICV-G	50mm	Turf Rotor	4.49				
7	7A	Hunter ICV-G	50mm	Turf Rotor	4.49	12.35	14.9	32	193
	7B	Hunter ICV-G	40mm	Turf Rotor	3.37				
	7C	Hunter ICV-G	40mm	Turf Rotor	4.49				
8	8A	Hunter ICV-G	50mm	Turf Rotor	4.49	10.11	14.9	32	226
	8B	Hunter ICV-G	50mm	Turf Rotor	5.62				
9	9A	Hunter ICV-G	50mm	Turf Rotor	4.49	11.23	14.9	32	258
	9B	Hunter ICV-G	50mm	Turf Rotor	6.74				
10	10A	Hunter ICV-G	50mm	Turf Rotor	5.62	11.01	14.9	32	290
	10B	Hunter ICV-G	50mm	Turf Rotor	5.39				
11	11A	Hunter ICV-G	50mm	Turf Rotor	4.49	10.11	14.9	32	322
	11B	Hunter ICV-G	50mm	Turf Rotor	5.62				
12	12A	Hunter ICV-G	50mm	Turf Rotor	3.37	6.74	29.8	16	338
	12B	Hunter ICV-G	50mm	Turf Rotor	3.37				
13	13A	Hunter ICV-G	50mm	Turf Rotor	2.93	5.86	29.8	16	354
	13B	Hunter ICV-G	50mm	Turf Rotor	2.93				
14	14A	Hunter ICV-G	50mm	Turf Rotor	5.62	12.14	29.8	16	370
	14B	Hunter ICV-G	50mm	Turf Rotor	6.52				
15	15A	Hunter ICV-G	40mm	Turf Rotor	4.49	11.23	29.8	16	387
	15B	Hunter ICV-G	50mm	Turf Rotor	6.74				
16	16A	Hunter ICV-G	50mm	Turf Rotor	5.62	11.24	29.8	16	403
	16B	Hunter ICV-G	50mm	Turf Rotor	5.62				
17	17A	Hunter ICV-G	50mm	Turf Rotor	6.08	10.59	29.8	16	419
	17B	Hunter ICV-G	40mm	Turf Rotor	4.51				
SYSTEM #2 - FIELDS 3 & 4									
STN NO.	**VALVE NO.**	**MODEL**	**SIZE**	**TYPE**	**STATION FLOW RATE (L/S)**	**STN FLOW (LPS)**	**PRECIPITATION RATE (mm/hr)**	**APPLICATION TIME (MIN.) 8mm**	**CUMULATIVE TIME (MIN.)**
18	18A	Hunter ICV-G	40mm	Turf Rotor	4.27	11.01	14.9	32	32
	18B	Hunter ICV-G	50mm	Turf Rotor	6.74				
19	19A	Hunter ICV-G	50mm	Turf Rotor	6.74	11.23	14.9	32	64
	19B	Hunter ICV-G	40mm	Turf Rotor	4.49				
20	20A	Hunter ICV-G	40mm	Turf Rotor	3.15	6.30	29.8	16	81
	20B	Hunter ICV-G	40mm	Turf Rotor	3.15				
21	21A	Hunter ICV-G	40mm	Turf Rotor	2.93	5.86	29.8	16	97
	21B	Hunter ICV-G	40mm	Turf Rotor	2.93				
22	22A	Hunter ICV-G	50mm	Turf Rotor	5.62	11.24	14.9	32	129
	22B	Hunter ICV-G	50mm	Turf Rotor	5.62				
23	23A	Hunter ICV-G	50mm	Turf Rotor	5.39	11.01	14.9	32	161
	23B	Hunter ICV-G	50mm	Turf Rotor	5.62				
24	24A	Hunter ICV-G	50mm	Turf Rotor	6.74	11.25	29.8	16	177
	24B	Hunter ICV-G	50mm	Turf Rotor	4.51				
25	25A	Hunter ICV-G	50mm	Turf Rotor	5.62	10.11	14.9	32	209
	25B	Hunter ICV-G	50mm	Turf Rotor	4.49				
26	26A	Hunter ICV-G	40mm	Turf Rotor	4.49	11.01	14.9	32	242
	26B	Hunter ICV-G	50mm	Turf Rotor	6.52				
27	27A	Hunter ICV-G	50mm	Turf Rotor	6.74	12.36	14.9	32	274
	27B	Hunter ICV-G	50mm	Turf Rotor	5.62				
28	28A	Hunter ICV-G	40mm	Turf Rotor	3.37	6.74	29.8	16	290
	28B	Hunter ICV-G	40mm	Turf Rotor	3.37				
29	29A	Hunter ICV-G	40mm	Turf Rotor	3.37	6.74	29.8	16	306
	29B	Hunter ICV-G	40mm	Turf Rotor	3.37				
30	30A	Hunter ICV-G	50mm	Turf Rotor	6.74	12.36	14.9	32	338
	30B	Hunter ICV-G	50mm	Turf Rotor	5.62				
31	31A	Hunter ICV-G	50mm	Turf Rotor	5.62	8.77	29.8	16	354
	31B	Hunter ICV-G	40mm	Turf Rotor	3.15				

NOT FOR CONSTRUCTION

Issue	Date	By	Chkd	Appd
T1	11/09/20	TFI	NM	JDH
TENDER ISSUE				

SPORTENG™

Rockhampton Regional Council

Job Title
MULTIPLE SPORTING FIELDS IRRIGATION - ROCKHAMPTON CRICKET GROUND

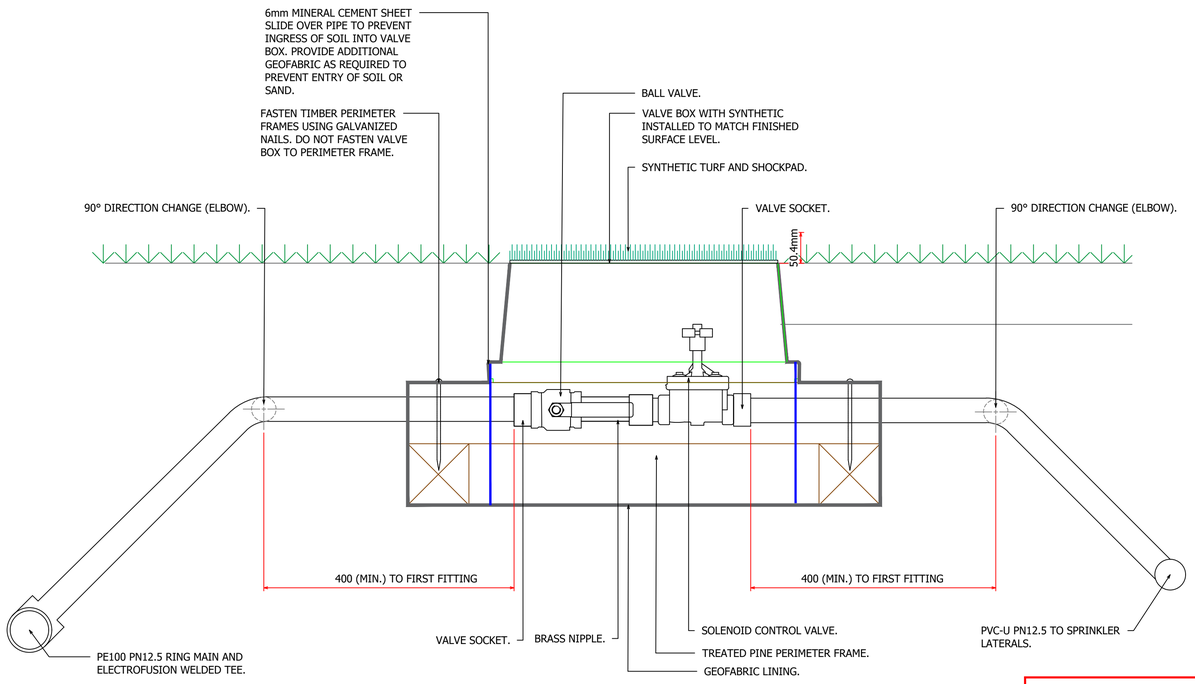
Drawing Title
IRRIGATION NOTES, LEGEND & SCHEDULE

N.T.S.

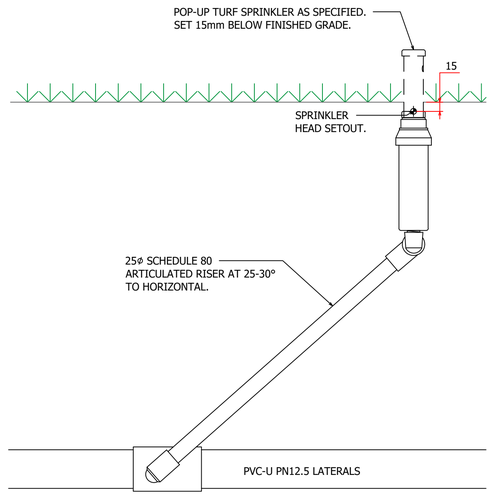
Discipline
IRRIGATION

Drawing Status
TENDER

Job No	Drawing No	Issue
20004-00	F525	T1



TYPICAL SOLENOID VALVE ASSEMBLY DETAIL
N.T.S.



SPRINKLER INSTALLATION DETAIL
N.T.S

ROCKHAMPTON REGIONAL COUNCIL

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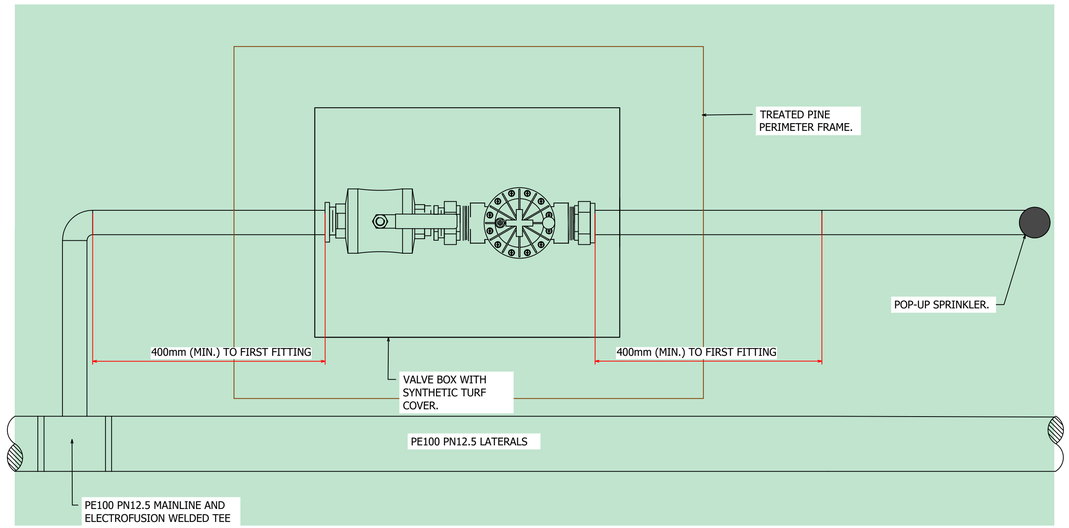
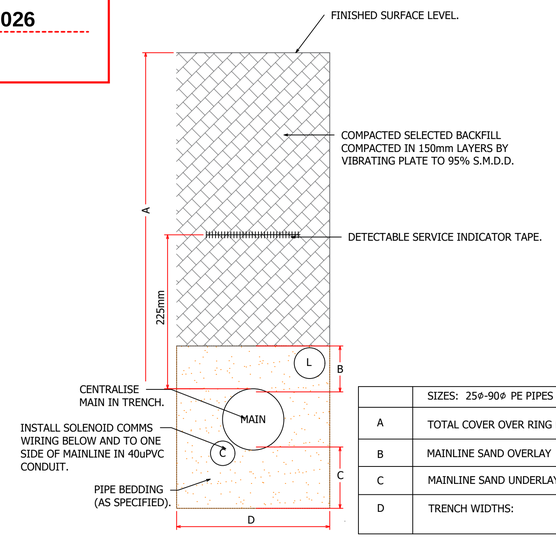


TYPICAL SOLENOID VALVE ASSEMBLY DETAIL - PLAN VIEW
N.T.S.



	SIZES: 25ø-90ø PE PIPES	Dim.
A	TOTAL COVER OVER RING MAIN	550mm
B	MAINLINE SAND OVERLAY	75mm
C	MAINLINE SAND UNDERLAY	100mm
D	TRENCH WIDTHS:	25ø - 63ø 150mm 75ø - 90ø 200mm

MAINLINE TRENCH AND INSTALLATION DETAIL
N.T.S

NOT FOR CONSTRUCTION

Issue	Date	By	Chkd	Appd
T1	11/09/20	TFI	NM	JDH
TENDER ISSUE				

SPORTENG™

Rockhampton Regional Council

Job Title
MULTIPLE SPORTING FIELDS IRRIGATION - ROCKHAMPTON CRICKET GROUND

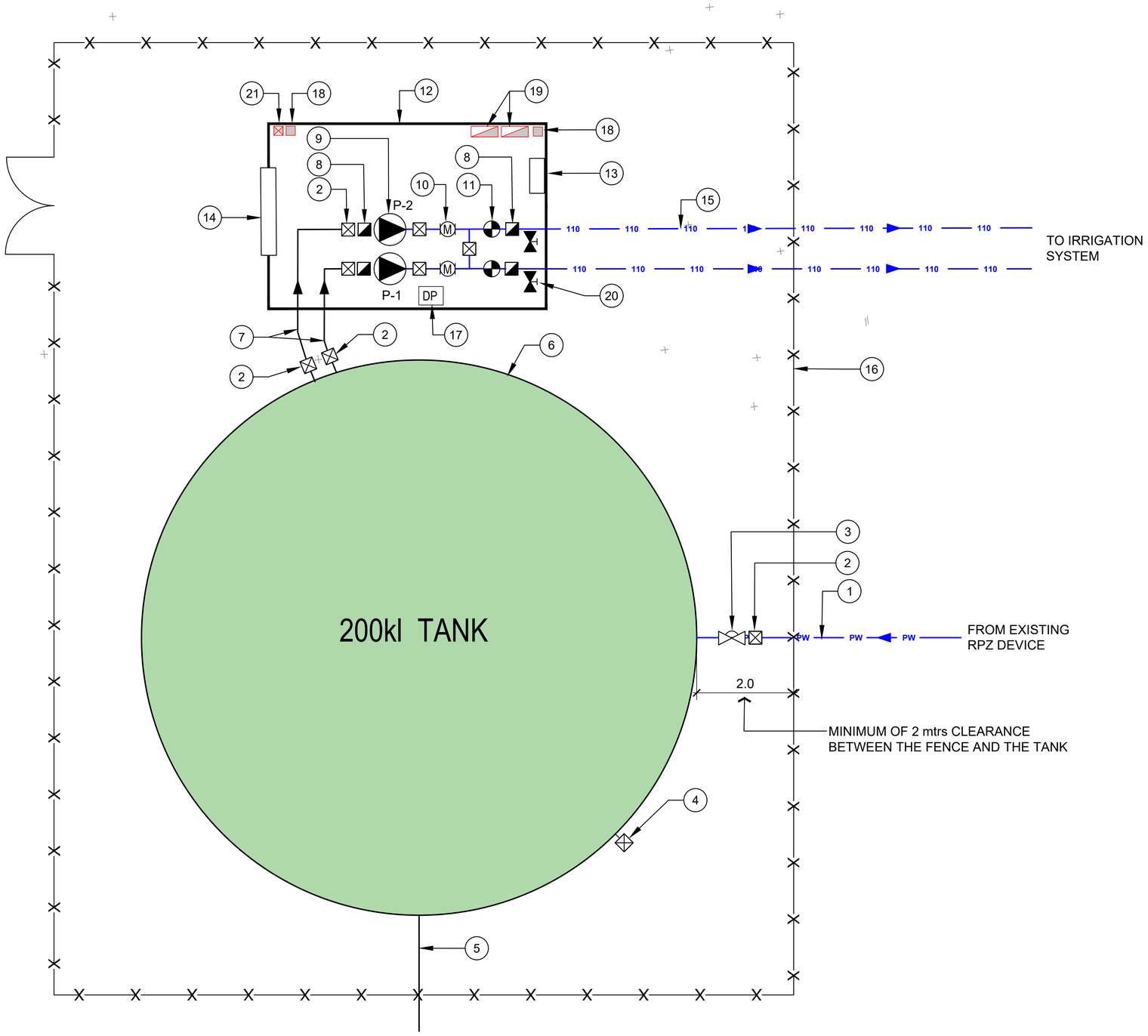
Drawing Title
IRRIGATION DETAILS.

N.T.S.

Discipline
IRRIGATION

Drawing Status
TENDER

Job No	Drawing No	Issue
20004-00	F550	T1



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EQUIPMENT SCHEDULE

1. HDPE SUPPLY PIPE FROM EXISTING RPZ DEVICE
2. ISOLATION VALVE
3. BERMAD TANK FILL VALVE
4. TANK DRAIN VALVE
5. TANK OVERFLOW PIPE
6. 200 KL WATER TANK
7. HDPE PUMP SUCTION LINE
8. NON RETURN VALVE
9. LOWARA SV46-04 MULTISTAGE PUMP UNIT
10. WATER METER
11. MASTER SOLENOID VALVE
12. 6 x 4m SHED (AS PER SPECIFICATION)
13. ELECTRICAL SWITCH BOARD
14. ROLLER DOOR (AS PER SPECIFICATION)
15. 110mm PN 12.5 POLY PIPE
16. 2.1mtr HIGH BLACK SQUASHED TOP SECURITY FENCE
17. DOSING PUMP
18. 2 x DOUBLE GPO
19. HUNTER HCC IRRIGATION CONTROLLER
20. 25mm BALLVALVE AND TAPPING SADDLE.
21. LIGHT SWITCH

A1

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CLIENT: Rockhampton Regional Council

PROJECT TITLE: **KELE PARK**

DRAWING TITLE: **PUMP STATION SCHEMATIC LAYOUT**

DATUM: GDA94
SYSTEM: MGA
ZONE: 56
NORTH:

INDEX	DATE	REVISIONS	DRAWN
A	27.08.24	FOR APPROVAL	BP

SCALE N.T.S
SHEET 1 OF 1 SHEETS
DRAWING NO. 24049-PS-001 A

MCE
McMurtrie Consulting Engineers

Engineering reimagined.

45 Reaney St, The Common 4701

Flood Statement

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Preliminary Approval No.: D/42-2026

Dated: 28 May 2026

DATE
21 October 2025

REF
R002-25-26/003

CLIENT
RRC

COMMERCIAL IN CONFIDENCE

Engineering reimagined.

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Document Information

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				Name	Signature	RPEQ No
A	21/10/2025	Original Issue	T. Lisle	R. Bywater		23569

Contents

Appendices

1 Introduction

McMurtrie Consulting Engineers (MCE) have been engaged by RRC to provide a Flood Statement report to support the proposed construction of a structure in the Flood Overlay zone. The site is located at 45 Reaney Street, The Common 4701, on land described as Lot 134 on SP343670.

The proposed development includes:

- A 6mx4m pump shed housing 2x 15KW Variable Speed Pumps halfway along the Eastern side of the property.
- A 230000L storage tank adjacent South of the shed.

2 Flooding Assessment

2.1 Existing Conditions

The site is an existing reserve (Cricket Ground) that provides multiple sporting fields for local clubs.

The site is located within the Flood Hazard Overlay area (refer Figure 1) as defined by the Rockhampton Regional Council (RRC) Planning Scheme. Specifically, the proposed development is affected by the following overlay triggers:

– Fitzroy River Flood, H3, H4 and H5

Figure 1 - Flood Hazard Overlay

In order to assess the existing flooding characteristics at the site, typically a Flood Search would be requested from RRC. As the site is relatively large in area, the mechanism of reporting employed by a flood search does not provide a representative velocity or depth, and as such has been generally disregarded. In lieu of this, depth and velocity results were provided by RRC which has been interpreted as summarised in Table 1.

Table 1 - Summary of Flood Search Results

	Fitzroy River Flooding		Local Catchment Flooding	
	Max Level (m AHD)	Max Velocity (m/s)	Max Level (m AHD)	Max Velocity (m/s)
1% AEP	2.5	0.55	N/A	N/A

Based on the expected ground surface level at the location of the proposed development, 9.00m AHD, the expected range of flooding depths are presented in Table 2.

Table 2 - 1% AEP Flooding Depths

	Fitzroy River Flooding	Local Catchment Flooding
	Max Depth (m)	Max Depth (m)
1% AEP	2.5	N/A

Figure 2 - Site Layout Plan

2.2 Flood Impact

The results of the flood data indicate that the riverine flooding event is significant. Large areas of the site are expected to flood with an expected velocity of 0.55m/s. It is acknowledged that the tank and pump will be located below the flood level due to the need to place it at-grade, however the actual impact of this is expected to be negligible, with significant distances to the nearest residential lot. Notably, the only nearby structure is non-residential (a shed) and is unlikely to be materially affected by any local afflux.

With reference to the Australian Disaster Resilience Handbook *Guideline 7-3 Flood Hazard*, the flooding at the location of the proposed development would be categorised as H5 flooding, which indicates it is unsafe for people or vehicles, buildings require special engineering design and construction It is suggested that the structure should be designed to accommodate for the structural loading that the flooding will induce. Similarly, the tank should be designed to accommodate the loading including securing the tank from lateral loading and buoyancy.

2.3 Emergency Management Procedure

Given the flooding that predominantly affects the site is riverine in nature, significant warning time can be expected due to the size of the basin catchment. The riverine emergency management considerations for the site will govern.

The users of the facility on the site should monitor the Bureau of Meteorology website prior to and during extended rainfall events in order to ensure they are prepared to evacuate the site if needed. All equipment that could be damaged by submergence (e.g. the pump sets and any controllers etc) should be completely removed from the site. It is expected that evacuation will be via Goodsall Street. All stored items should be moved to ground that is above the flood zone, as well as the site cleaned of debris that could otherwise impact neighbouring properties.

Following the event, the users of the facility should wait until given advice from the relevant authorities that it is safe to return to the site.

3 Conclusion

The proposed development is a Pump Shed and new Storage Tank in the Flood Overlay zone located at 45 Reaney Street, The Common 4701, on land described as Lot 134 on SP343670. The development is not expected to result in a material increase in flood level or flood hazard upstream, downstream or adjacent to the site.

3.1 Qualifications

This flood statement has been prepared by MCE to support a Building Works Assessable Against the Planning Scheme application, for a proposed structure located within the Flood Hazard Overlay zone.

The analysis and overall approach were specifically catered to the requirement of this project and may not be applicable beyond this scope. For this reason, any other third parties are not authorised to utilise this report without further input and advice from MCE.

Appendix A: Flood Hazard Overlay Code Responses

Table 3 - RRC Flood Hazard Overlay Code Table 8.2.8.3.1

Performance Outcomes	Acceptable Outcomes	Responses
Development in Fitzroy River flood areas – H1 (low hazard area) or H2 (medium hazard area) or North Rockhampton flood management area or Local catchment flood - planning area 2 Editor's note—Refer to overlay maps OM-8A and OM-8C		
PO1 Development (including extensions) for non-residential purposes is able to provide a safe refuge for people and for the storage of goods during times of flood inundation.	**AO1.1** For non-residential development, at least thirty (30) per cent of the gross floor area of all new buildings and structures is located a minimum of 500 millimetres above the defined flood level. Editor's note—Areas less than those nominated above may be supported where accompanied by a flood impact report in accordance with SC6.10—Flood hazard planning scheme policy. **AND** **AO1.2** A report from a registered professional engineer of Queensland certifies that the development in the flood area will not result in a material increase in flood level or flood hazard on upstream, downstream or adjacent properties.	**AO1.1** Not applicable - The structure (tank and pump shed) are not suitable structures to provide areas for safe refuge. **AO1.2** Complies – as provided in this document.

PO2 Development is located to minimise susceptibility to and potential impacts of flooding.	**AO2.1** For residential uses the finished floor levels of all habitable rooms shall be constructed a minimum of 500 millimetres above the defined flood level. **AND** **AO2.2** A report from a registered professional engineer of Queensland certifies that the development in the flood area will not result in a material increase in flood level or flood hazard on upstream, downstream or adjacent properties. Editor's note—Report to be prepared in accordance with SC6.10—Flood hazard planning scheme policy.	**AO2.1** Not Applicable – not for a residential use. **AO2.2** Complies – as provided in this document.
PO3 Development avoids the release of hazardous materials into floodwaters.	**AO3.1** All hazardous materials and hazardous manufacturing equipment and hazardous containers are located and stored a minimum of 500 millimetres above the defined flood level. Editor's note—Refer to the Work Health and Safety Act 2011 and associated regulation, the Environmental Protection Act 1994 and the relevant building assessment provisions under the Building Act 1975 for requirements related to the manufacture and storage of hazardous substances.	**AO3.1** Will Comply – no hazardous materials or manufacturing equipment will be stored on the site.

Table 4 - RRC Flood Hazard Overlay Code Table 8.2.8.3.1

Performance Outcomes	Acceptable Outcomes	Responses
Development in Fitzroy River flood areas – H3-H4 (high hazard areas) or H5-H6 (extreme hazard areas) or Local catchment flood - planning area 1 Editor's note—Refer to overlay maps OM-8A and OM-8C		

PO4 Development does not involve the further intensification of land uses and does not increase the risk to people and property. Editor's Note—Flood hazard risk assessment can be undertaken in accordance with SC6.10 — Flood hazard planning scheme policy.	**AO4.1.1** Development does not involve new buildings or structures. **OR** **AO4.1.2** Where involving the replacement or alteration to an existing non-residential building or structure: (a) there is no increase in the existing or previous buildings' gross floor area; and (b) the finished floor level of any replacement or alteration to an existing building is constructed a minimum of 500 millimetres above the defined flood level. **OR** **AO4.1.3** Where involving the replacement or alteration to an existing caretaker's accommodation, dwelling house or dwelling unit: (a) there is no increase in the number of dwellings; (b) there is no increase in the existing or previous buildings' gross floor area; and (c) the finished floor level of all habitable rooms shall be constructed a minimum of 500 millimetres above the defined flood level. **AND** **AO4.1.4** Where located in the rural zone, the total floor area of class 10a buildings and structures on the site do not exceed a total of fifty (50) square metres, and	**PO4** Complies – the proposed structure does not intensify the land use or increase the risk to people or property, as demonstrated by this report. **AO4.1.2** Not Applicable. **AO4.1.3** Not Applicable. **AO4.1.4** Not Applicable.

	are set back a minimum of twenty (20) metres from all site boundaries.	
PO5 Development avoids the release of hazardous materials into floodwaters.	**AO5.1** Materials manufactured, used or stored on site are not hazardous in nature.	**AO5.1** Will Comply – no hazardous materials or manufacturing equipment will be stored on the site.

Table 5 - RRC Flood Hazard Overlay Code Table 8.2.8.3.1

Performance Outcomes	Acceptable Outcomes	Responses
Development in floodplain investigation area Editor's note—Refer to overlay map overlay map OM-8B		
PO6 Development is located to minimise susceptibility to and potential impacts of flooding. Editor's note—The floodplain investigation area is mapping supplied by the Queensland Reconstruction Authority for possible flood affected areas, where local verification is yet to be completed. A flood hazard assessment in accordance with SC6.10 — Flood hazard planning scheme policy can be undertaken to verify the potential risk of a flood event occurring.	**AO6.1** Development does not involve new buildings or structures.	**AO6.1** Not applicable – not within the floodplain investigation area.
PO7 Development avoids the release of hazardous materials into floodwaters.	**AO7.1** Materials manufactured, used or stored on site are not hazardous in nature.	**AO7.1** Not applicable – not within the floodplain investigation area.

Table 6 - RRC Flood Hazard Overlay Code Table 8.2.8.3.2

Performance Outcomes	Acceptable Outcomes	Responses
Development in Fitzroy River flood area – all hazard areas, North Rockhampton flood management area or Local catchment flood – all planning areas Editor's note—Refer to overlay maps OM-8A and OM-8C		
PO8 Development is located to minimise susceptibility to and potential impacts of flooding.	No acceptable outcome is nominated.	**PO8** Complies – the proposed structure has been sited on the highest area of available ground.
PO9 Underground car parks are designed to prevent the intrusion of floodwaters.	**AO9.1** Development with underground car parking is designed to prevent the intrusion of floodwaters by the incorporation of a bund or similar barrier a minimum of 500 millimetres above the defined flood level.	**AO9.1** Not Applicable – no underground car parking proposed.

PO10 Development: (a) does not result in any reduction of onsite flood storage capacity; or (b) does not result in any change to depth, duration or velocity of floodwaters within the premises; and (c) does not change flood characteristics outside the premises, including but not limited to causing: a. loss of flood storage; or b. loss of or changes to flow paths; or c. acceleration or retardation of flows; or d. any reduction in flood warning times elsewhere on the floodplain. Editor's note—Council may require the applicant to submit a site-based flood study that investigates the impact of the development on the floodplain and demonstrates compliance with the relevant performance outcome.	No acceptable outcome is nominated.	**PO10** Complies – the proposal does not result in a notable loss of flood storage, increase in depth/velocity and does not change the characteristics of flooding.
PO11 Essential community infrastructure and community facilities are protected from, and able to function effectively during and immediately after, a defined flood event.	**AO11.1** A use for a purpose listed in Table 8.2.8.3.3: (a) is not located within the flood hazard area; and (b) has at least one (1) flood free access road.	**AO11.1** Not Applicable – not for a use listed in the table.

PO12 Development provides safe and trafficable access to the local evacuation centres and evacuation services and have regard to: (a) evacuation time; (b) number of persons affected; (c) types of vehicles necessary for evacuation purposes; (d) the distance to flood free land; and (e) the evacuation route.	**AO12.1** Trafficable access to and from the development complies with the Capricorn Municipal Guidelines. **AND** **AO12.2** Trafficable access to and from the development within the local catchment planning areas are in accordance with the Queensland Urban Drainage Manual. Note—Trafficable access for emergency services or community related uses is obtained from at least one (1) route (minor collector or higher) for emergency services purposes. The development is to ensure that safe access, to the road network between the development site and the closest centre zone, is provided. Editor's note—Trafficable access requirements for local catchment planning areas has not been identified and reference has been made to the provisions under the Queensland Urban Drainage Manual. This is due to the short period that property may be isolated.	**PO12** Complies – the structure is not for a residential use (Class 10a) and is not expected to be used during or after a flood event. Notwithstanding, a number of flood free routes are available (e.g. Goodsall St, predominantly).

Table 7 - RRC Flood Hazard Overlay Code Table 8.2.8.3.2

Performance Outcomes	Acceptable Outcomes	Responses
Development in Fitzroy River flood areas – H3-H4 (high hazard areas) or H5-H6 (extreme hazard areas), North Rockhampton flood management area or Local catchment flood – planning area 1 Editor's note—Refer to overlay maps OM-8A and OM-8C		
PO13 Development that involves temporary or moveable residential structures (for example caravan parks and camping grounds) are not located with the Fitzroy River high and extreme hazard areas, North Rockhampton flood management area and Local catchment planning area 1.	No acceptable outcome is nominated.	**PO13** Complies – does not include temporary or movable structures.

Table 8 - RRC Flood Hazard Overlay Code Table 8.2.8.3.2

Performance Outcomes	Acceptable Outcomes	Responses
Reconfiguring a lot		
Development in Fitzroy River flood area – all hazard areas, North Rockhampton flood management area or Local catchment flood - all planning areas Editor's note—Refer to overlay map OM-8A and OM-8C		
PO14 Development does not result in the creation of additional lots.	**AO14.1** Reconfiguring a lot does not result in new lots.	**AO14.1** Not Applicable – not an ROL

Table 9 - RRC Flood Hazard Overlay Code Table 8.2.8.3.2

Performance Outcomes	Acceptable Outcomes	Responses
Development in floodplain investigation area Editor's note—Refer to overlay map OM-8B		

PO15 Development provides vehicle access to a road network that is sufficient to enable safe access. Editor's note—The floodplain investigation area is mapping supplied by the Queensland Reconstruction Authority for possible flood affected areas, where local verification is yet to be completed. A flood hazard assessment in accordance with SC6.10 — Flood hazard planning scheme policy can be undertaken to verify the potential risk of a flood event occurring.	No acceptable outcome is nominated.	**PO15** Not applicable – not within the floodplain investigation area.
PO16 Onsite access is provided to a building envelope or fill area in which a building is to be constructed. The access is located on land classified as a low flood hazard in the defined flood event.	**AO16.1** Onsite access is provided to a building envelope or fill area in which a building is to be constructed. The access is located on land classified as a low flood hazard in the defined flood event. Editor's note—For the purposes of the above requirements in respect of an access area or a road which provides access to the development a low flood hazard means: (a) inundation is a maximum depth of 300 millimetres during events up to and including the defined flood event; (b) inundation extends for a maximum distance of 200 metres during events up to and including the defined flood event; and (c) The product of velocities and depth does not exceed D*V=0.4m2/s.	**AO16.1** Not applicable – not within the floodplain investigation area.

Table 10 - RRC Flood Hazard Overlay Code Table 8.2.8.3.2

Performance Outcomes	Acceptable Outcomes	Responses
Operational work		
PO17 Development does not materially impede the flow of floodwaters through the site or worsen flood flows external to the site.	**AO17.1** Development does not involve: (a) filling with a height greater than 100 millimetres; or (b) block or solid walls or fences; or (c) garden beds or other structures with a height more than 100 millimetres; or (d) the planting of dense shrub hedges.	**PO17** Complies – only the placement of the tank will be relevant, however as discussed it is expected to have a negligible impact on flooding levels, velocity and direction.

Appendix B: Structure Plans

REFER TO ATTACHMENT