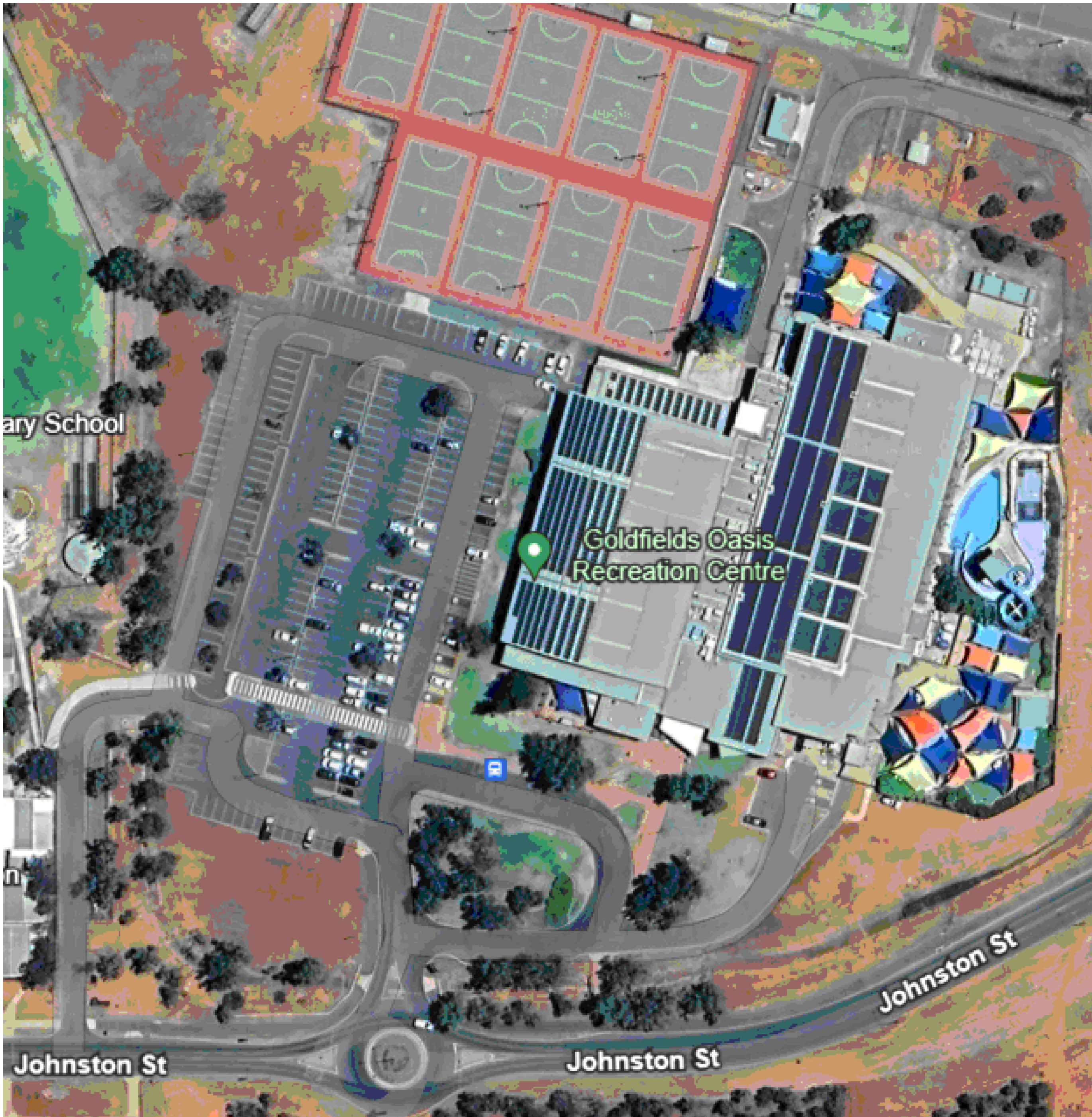


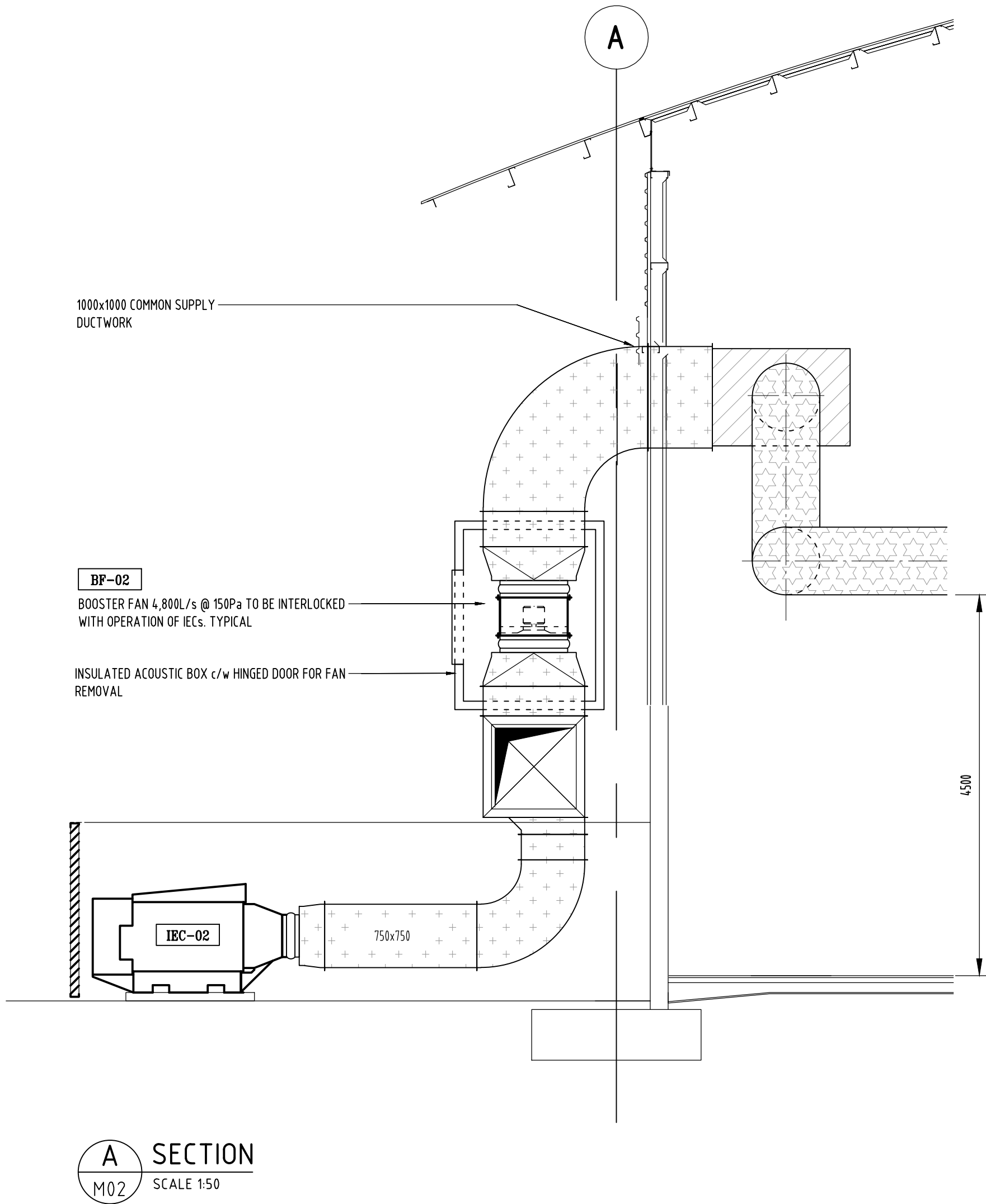
# **APPENDIX B**

## **DRAWINGS.**




SITE PLAN  
SCALE N.T.S

SCHEDULE - INDIRECT EVAPORATIVE COOLERS															
REF	TYPE	AREA SERVED	MODEL	SUPPLY FLOW (L/s)	COOLING CAPACITY (kW)	HEAT EXCHANGERS		ESP (Pa)	RPM @ 50Hz	kW	PHASE	FLC (A)	WATER SUPPLY (L/min)	WEIGHT (kg)	NOTES
						INDRECT	DIRECT								
IEC-1	EVAPORATIVE COOLER	Court 1	CW-HISS PLUS	1600	18.97	3 CORES	3 CHILLCEL PADS	80	1460	2.2	3	4.9	20	350	1,2,3,4,5
IEC-2	EVAPORATIVE COOLER	Court 1	CW-HISS PLUS	1600	18.97	3 CORES	3 CHILLCEL PADS	80	1460	2.2	3	4.9	20	350	1,2,3,4,5
IEC-3	EVAPORATIVE COOLER	Court 1	CW-HISS PLUS	1600	18.97	3 CORES	3 CHILLCEL PADS	80	1460	2.2	3	4.9	20	350	1,2,3,4,5
IEC-4	EVAPORATIVE COOLER	Court 2	CW-HISS PLUS	1600	18.97	3 CORES	3 CHILLCEL PADS	80	1460	2.2	3	4.9	20	350	1,2,3,4,5
IEC-5	EVAPORATIVE COOLER	Court 2	CW-HISS PLUS	1600	18.97	3 CORES	3 CHILLCEL PADS	80	1460	2.2	3	4.9	20	350	1,2,3,4,5
IEC-6	EVAPORATIVE COOLER	Court 2	CW-HISS PLUS	1600	18.97	3 CORES	3 CHILLCEL PADS	80	1460	2.2	3	4.9	20	350	1,2,3,4,5
IEC-7	EVAPORATIVE COOLER	Court 3	CW-HISS PLUS	1600	18.97	3 CORES	3 CHILLCEL PADS	80	1460	2.2	3	4.9	20	350	1,2,3,4,5
IEC-8	EVAPORATIVE COOLER	Court 3	CW-HISS PLUS	1600	18.97	3 CORES	3 CHILLCEL PADS	80	1460	2.2	3	4.9	20	350	1,2,3,4,5
IEC-9	EVAPORATIVE COOLER	Court 3	CW-HISS PLUS	1600	18.97	3 CORES	3 CHILLCEL PADS	80	1460	2.2	3	4.9	20	350	1,2,3,4,5
SCHEDULE NOTES															
1	SELECTION BASED ON CLIMATE WIZARD EQUIPMENT.														
2	UNIT SELECTION SHALL BE BASED ON KALGOORLIE DESIGN AMBIENT OF 40.5°CDB AND 22.5°CWB														
3	STATIC PRESSURES NOMINATED ARE INDICATIVE ONLY. CONTRACTOR TO PROVIDE STATIC PRESSURE CALCULATIONS PRIOR TO ORDERING OF EQUIPMENT														
4	STARTING ARRANGEMENT OF FAN SHALL BE VIA EXTERNAL VARIABLE SPEED DRIVE. PROVIDE NEW VARIABLE SPEED DRIVE TO SUIT														
5	EVAPORATIVE COOLER POWER SUPPLIES SHALL ORIGINATE FROM EXISTING MECHANICAL SERVICES SWITCHBOARD. PROVIDE LOCKABLE ISOLATING SWITCH LOCATED ADJACENT TO OUTDOOR UNIT IN ACCORDANCE WITH AS3000-2018 CLAUSE 4.19. INCLUDE ALL NECESSARY CABLING CONNECTIONS FOR INTERFACE TO BACNET GATEWAY														



A SECTION  
M02 SCALE 1:50

SCHEDULE - FANS													
REF	SERVING	MODEL	DESCRIPTION	AIR FLOW (L/s)	ESP (Pa)	RPM @ 50Hz	kW	PHASE	FLC (A)	kg	dba@ 3m	NOTES	
BF-1	IEC-1, IEC-2 & IEC-3	AP0806CP12/24	DIRECT DRIVE ADJUSTABLE PITCH AXIAL FAN	4800	150	960	2.42	3	5.7	96	61	1,2,3,4,5	
BF-2	IEC-4, IEC-5 & IEC-6	AP0806CP12/24	DIRECT DRIVE ADJUSTABLE PITCH AXIAL FAN	4800	150	960	2.42	3	5.7	96	61	1,2,3,4,5	
BF-3	IEC-7, IEC-8 & IEC-9	AP0806CP12/24	DIRECT DRIVE ADJUSTABLE PITCH AXIAL FAN	4800	150	960	2.42	3	5.7	96	61	1,2,3,4,5	
SCHEDULE NOTES													
1	SELECTION BASED ON FANTECH EQUIPMENT.												
2	ESTIMATED STATIC PRESSURE DROP SHOWN. CONTRACTOR SHALL CONFIRM WITH DETAILED STATIC PRESSURE DROP CALCULATIONS PRIOR TO EQUIPMENT SELECTION.												
3	STARTING ARRANGEMENT OF FAN SHALL BE VIA EXTERNAL VARIABLE SPEED DRIVE. PROVIDE NEW VARIABLE SPEED DRIVE TO SUIT.												
4	PROVIDE ANTI-VIBRATION MOUNTS, MOUNTING FEET AND MATCHING FLANGES TO SUIT FAN SELECTION.												
5	FAN SHALL BE INTERLOCKED WITH OPERATION OF ASSOCIATED INDIRECT EVAPORATIVE COOLERS												



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02m4m6m

LEGEND



EXISTING MECHANICAL SERVICES TO BE RETAINED AS INSTALLED

EXISTING MECHANICAL SERVICES TO BE DECOMMISSIONED, REMOVED AND DISPOSED OF

EQUIPMENT

UNINSULATED SHEETMETAL DUCTWORK

UNINSULATED FABRIC DUCTWORK

SHEETMETAL DUCTWORK INTERNALLY LINED WITH R1.2 FOIL FACED DUCT LINER

SHEETMETAL DUCTWORK INTERNALLY LINED WITH R3.0 FOIL FACED DUCT LINER

NOTES

1. MECHANICAL CONTRACTOR TO MAKE GOOD ALL EXISTING PENETRATIONS TO EXTERNAL WALLS.

2. MECHANICAL CONTRACTOR TO ALLOW FOR ALL BUILDERS WORK INCLUDING BUT NOT LIMITED TO :

- WALL PENETRATIONS
- NEW ELECTRICAL SUPPLIES INCLUDING W/PROOF ISOLATORS,
- EXTENDING EXISTING WATER SUPPLIES,
- MODIFICATIONS TO EXISTING PLANT ENCLOSURES

3. MECHANICAL CONTRACTOR TO FAMILIARISE THEMSELVES WITH THE SITE AND SITE CONDITIONS.

4. MECHANICAL CONTRACTOR TO LIAISE WITH CITY OF KALGOORLIE BOULDER FOR ALL EXISTING AND NEW BUILDING WORKS, SEPARATE ALL BUILDING WORKS COSTS FROM OTHER ITEMS.

5. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION


6. CONTRACTOR TO CHECK ALL DIMENSIONS ON ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION.

7. ALL DUCT DIMENSIONS TO BE CLEAR AIRWAY SIZES.

1	08.04.2024	RE-ISSUED FOR TENDER	RG	DLG
0	24.11.2023	ISSUED FOR TENDER	RG	DLG
REV	DATE	DESCRIPTION	BY	CHKD

TENDER ISSUE

CLIENT



City of  
Kalgoorlie  
Boulder

DISCIPLINE

MECHANICAL SERVICES

PROJECT

CITY OF KALGOORLIE BOULDER - OASIS SPORT COURTS

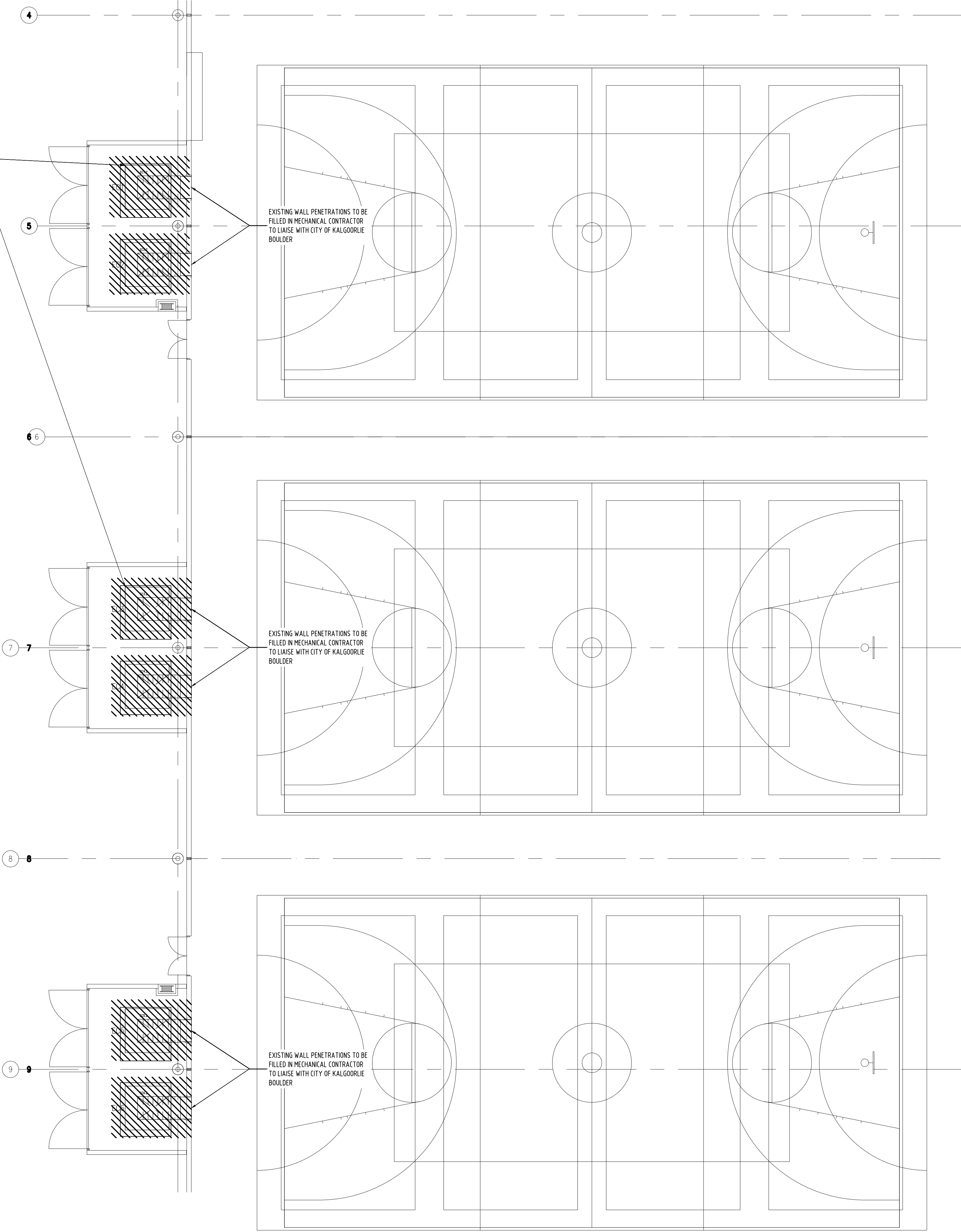
DRAWING

SITE PLAN, SECTION, EQUIPMENT SCHEDULE & NOTES

DRAWN	DESIGNED	REVIEWED	APPROVED	DATE	SCALE
RG	RG	DLG	DLG	NOV 2023	AS SHOWN @ A1
BCA PROJECT No.				DRAWING No.	REV
230352				M00	1



DECOMMISSION & REMOVE 6off EVAPORATIVE COOLERS  
INCLUDING ASSOCIATED EXTERNAL DUCTWORK &  
ELECTRICS/CONTROLS. WATER SERVICES TO BE RETAINED.



## LEGEND

- EXISTING MECHANICAL SERVICES TO BE RETAINED AS INSTALLED
- EXISTING MECHANICAL SERVICES TO BE DECOMMISSIONED, REMOVED AND DISPOSED OF
- UNINSULATED SHEETMETAL DUCTWORK
- UNINSULATED FABRIC DUCTWORK
- SHEETMETAL DUCTWORK INTERNALLY LINED WITH R1.2 FOIL FACED DUCT LINER
- SHEETMETAL DUCTWORK INTERNALLY LINED WITH R3.0 FOIL FACED DUCT LINER

## NOTES

- REFER TO DWG M00 FOR GENERAL NOTES AND EQUIPMENT SCHEDULES.

1	08.04.2024	RE-ISSUED FOR TENDER	RG	DLG
0	24.11.2023	ISSUED FOR TENDER	RG	DLG
REV	DATE	DESCRIPTION	BY	CHKD

## TENDER ISSUE



DISCIPLINE MECHANICAL SERVICES

PROJECT CITY OF KALGOORLIE BOULDER - OASIS SPORT COURTS

DRAWING DEMO WORKS

DRAWN	DESIGNED	REVIEWED	APPROVED	DATE	SCALE
RG	RG	DLG	DLG	NOV 2023	1:100 @ A1
BCA PROJECT No.	DRAWING No.	REV			
230352	M01	1			

FABRIC DUCTWORK CONNECTION TO RIGID RECTANGULAR TO CIRCULAR TRANSITION PIECE. 4800L/s

CLOSE UP EXISTING PENETRATIONS AND FINISH TO MATCH EXISTING. ENSURE WALL INTEGRITY IS MAINTAINED AND IS COMPLETELY SEALED AIR & WEATHER SEALED. (TYPICAL)

96FF PLINTH MOUNTED INDIRECT TYPE EVAPORATIVE COOLING SYSTEM. COMBINED IN 3 GROUPS OF 3 WITH SINGLE RISER DUCT c/w BOOSTER FAN IN VERTICAL.

EXTEND EXISTING WATER SUPPLY TO EACH NEW IEC (TYPICAL)

REMOVE EXISTING ACCESS GATES & NIB WALLS. EXTEND WALL TO SUIT NEW PLANT REQUIREMENTS INCLUDING ACCESS AND AIR FLOW. REINSTATE ACCESS GATES TO NEW LOCATION. (TYPICAL)

PROVIDE FLEXIBLE CONNECTION TO EVAPORATIVE COOLER OUTLET. TYPICAL

RECTANGULAR DUCT TO RISE & ENTER BUILDING AT 6000mm AFFL FROM BOTTOM OF DUCT. PROVIDE NEW PENETRATIONS TO SUIT. (TYPICAL)

7500ia FABRIC DUCT TO RUN AT 4500mm NOMINAL AFL

7500ia FABRIC DUCT TO RUN AT 4500mm NOMINAL AFL

DIFFUSION TO BE ANGLED DOWNWARD TOWARDS THE COURT TO EXTENT NECESSARY TO ENSURE AIRFLOW SPEED BETWEEN 0.15m/s TO 0.2m/s IN & AROUND BADMINTON PLAYING AREA. TYPICAL

7500ia FABRIC DUCT TO RUN AT 4500mm NOMINAL AFL

7500ia FABRIC DUCT TO RUN AT 4500mm NOMINAL AFL

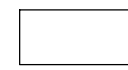
DIFFUSION TO BE ANGLED DOWNWARD TOWARDS THE COURT TO EXTENT NECESSARY TO ENSURE AIRFLOW SPEED BETWEEN 0.15m/s TO 0.2m/s IN & AROUND BADMINTON PLAYING AREA. TYPICAL

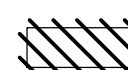
7500ia FABRIC DUCT TO RUN AT 4500mm NOMINAL AFL

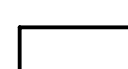
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LEGEND

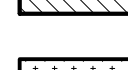
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EXISTING MECHANICAL SERVICES TO BE RETAINED AS INSTALLED
- 

EXISTING MECHANICAL SERVICES TO BE DECOMMISSIONED, REMOVED AND DISPOSED OF
- 

UNINSULATED SHEETMETAL DUCTWORK
- 

UNINSULATED FABRIC DUCTWORK
- 

SHEETMETAL DUCTWORK INTERNALLY LINED WITH R1.2 FOIL FACED DUCT LINER
- 

SHEETMETAL DUCTWORK INTERNALLY LINED WITH R3.0 FOIL FACED DUCT LINER

NOTES

1. REFER TO DWG M00 FOR GENERAL NOTES AND EQUIPMENT SCHEDULES.

1	08.04.2024	RE-ISSUED FOR TENDER	RG	DLG
0	24.11.2023	ISSUED FOR TENDER	RG	DLG
REV	DATE	DESCRIPTION	BY	CHKD

TENDER ISSUE

CLIENT



City of  
Kalgoorlie  
Boulder



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DISCIPLINE MECHANICAL SERVICES

PROJECT CITY OF KALGOORLIE BOULDER - OASIS SPORT COURTS

DRAWING NEW WORKS

DRAWN	DESIGNED	REVIEWED	APPROVED	DATE	SCALE
RG	RG	DLG	DLG	NOV 2023	1:100 @ A1
BCA PROJECT No. 230352			DRAWING No. M02		REV 1