

PJ316 - WANGARTTA SPORTS AQUATIC CENTER - CHAIN/ AMENITIES
- 41 SCHILLING DR, WANGARATTA VIC
ELECTRICAL SERVICES

Table with 2 columns: DRAWING NUMBER, SHEET TITLE. Rows include PJ316-E000 (COVER SHEET& SPECIFICATION), PJ316-E050 (SITE PLAN), PJ316-E100 (PROPOSED FLOOR PLAN LIGHTING LAYOUT), PJ316-E200 (PROPOSED FLOOR PLAN POWER LAYOUT), PJ316-E201 (PROPOSED ROOF PLAN POWER LAYOUT), PJ316-E300 (PROPOSED FLOOR PLAN FIRE DETECTION LAYOUT).

SPECIFICATION

THIS SPECIFICATION, UNLESS SPECIFICALLY STATED OTHERWISE, CALLS FOR THE PROVISION OF SYSTEMS COMPLETE IN EVERY RESPECT, FIT AND READY FOR CONTINUOUS, SAFE, EFFICIENT OPERATION. THE CONTRACTOR SHALL THEREFORE SUPPLY, DELIVER, INSTALL, TEST, COMMISSION AND SET TO WORK THE SYSTEMS AND THEY SHALL BE COMPLETE WITH ALL NECESSARY ANCILLARY AND MINOR ITEMS, WHETHER EXPRESSLY INDICATED ON THE DRAWINGS OR SPECIFICATION OR NOT.

1. PROJECT DESCRIPTION

THE PROJECT CONSISTS OF CONSTRUCTION OF A EXTENSION TO EXISTING SPORT FACILITY.

2. DEFINITION OF TERMS

WHERE THE FOLLOWING TERMS ARE USED THROUGHOUT THE CONTRACT DOCUMENTS, THE TERMS BELOW SHALL BE DEFINED AS FOLLOWS:

Table with 2 columns: PROVIDE:, INCLUDES:, CODE:, CONSULTANT:. Rows define supply/installation, inclusion of sport facility, current editions of codes/standards, and Ofek Engineers as consultants.

APPROVED EQUAL:APPROVED EQUAL:

WITH WRITTEN APPROVAL FROM THE CONSULTANT FOR USE INSTEAD OF THE SPECIFIED PRODUCT OR METHOD. TO GAIN WRITTEN APPROVAL, THE CONTRACTOR MAY BE REQUIRED TO SUBMIT SUPPORTING DOCUMENTATION, PRODUCT SAMPLES AND/OR CALCULATIONS.

3. LIGHTING

- 3.1 PROVIDE NEW LUMINAIRES AND EMERGENCY AND EXIT LUMINAIRES, ASSOCIATED WIRING SUPPORTS. WIRING SHALL BE 2.5MM2 MINIMUM WITH WHITE PVC SHEATH.

4. LIGHTING CONTROL

- 4.1 ALL NEW LIGHTING SHALL BE CONNECTED TO THE EXISTING DALI/C -BUS LIGHTING CONTROL SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY DALI DRIVERS, C-BUS DEVICES, CONTROL CABLING, PROGRAMMING, TESTING, COMMISSIONING, AND ANCILLARY EQUIPMENT REQUIRED TO INTEGRATE THE NEW LIGHTING INTO THE EXISTING LIGHTING CONTROL SYSTEM. COORDINATE ALL CONTROL REQUIREMENTS WITH THE CLIENT AND LIGHTING CONTROL CONTRACTOR PRIOR TO INSTALLATION.

5. EMERGENCY LIGHTING AND EXIT SIGNS

- 5.1 PROVIDE NEW EMERGENCY AND EXIT LUMINAIRES, ASSOCIATED WIRING AND SUPPORTS. WIRING SHALL BE 2.5MM ² MINIMUM WITH WHITE PVC SHEATH.
- 5.2 EXIT AND EMERGENCY LIGHTING SHALL BE STAND ALONE COMPREHENSIVE SELF-TEST. THE SYSTEM SHALL SELF-TEST EVERY 2 WEEKS FOR ELECTRONIC, DIODE AND BATTERY FUNCTION. EVERY 3 MONTHS A BATTERY HEALTH TEST WILL RUN A CYCLE BY DRAINING THE BATTERY TO 90MINS AND RECHARGING AS STIPULATED UNDER ASNZ2293. THE HEALTH OF THE PRODUCT AND FAULTS, IF ANY, SHALL BE MADE VISIBLE ON THE INDICATOR LIGHT ON THE PRODUCT HOUSING. THE INDICATOR WILL BE ALLOWED TO BE VISIBLE WITH THE INSTALLATION.
- 5.3 EMERGENCY AND EXIT LIGHTING FIXTURES SHALL BE COMPLETE AS PER THE PROJECT DRAWING. THE PRODUCTS MUST BE COMPLIANT TO ASNZ2293 WITH A MINIMUM BATTERY LIFE OF 120MINS ON SUPPLY. FULL 5 YEAR WARRANTY IS TO BE PROVIDED INCLUDING BATTERY AND DIODE AND ELECTRONICS FROM THE MANUFACTURER. NIMH BATTERIES TO BE PROVIDED FOR ENVIRONMENTAL HEALTH AND PRODUCT STABILITY REDUCING THE RISK OF COMBUSTION.
- 5.4 MAINTENANCE TESTS WILL BE AVAILABLE FROM THE PRODUCT INDICATORS TO BE REPORTED TO THE EMERGENCY AND EXIT LOG BOOK.

6. POWER

- 6.1 MODITY EXISTING DISTRIBUTION BOARDS WITH NEW RCD CIRCUIT BREAKERS TO THE DISTRIBUTION BOARD TO ACCOMMODATE NEW LIGHTING AND POWER SUB-CIRCUITS TO SUIT THE FITOUT.
- 6.2 PROVIDE NEW POWER OUTLETS, ASSOCIATED WIRING AND SUPPORTS. WIRING SHALL BE 2.5MM ² MINIMUM WITH BLACK PVC SHEATH AS SHOWN ON THE DRAWINGS.
- 6.3 PROVIDE CIRCUIT LABELS AT THE DISTRIBUTION BOARDS AND ON ACTUAL OUTLETS AND SWITCHES. THE LABELS SHALL INDICATE CIRCUIT NUMBERS CORRESPONDING TO THE CIRCUIT BREAKER NUMBERS ON THE SWITCHBOARDS.
- 6.4 DISCONNECT, REMOVE AND MAKE SAFE ALL REDUNDANT CABLING.
- 6.5 CONTRACTOR TO BALANCES THE LOAD EQUALLY ACROSS THE THREE PHASES WHEN CARRYING OUT THE INITIAL FITOUT AND, ANY SUBSEQUENT TENANT FITOUT MODIFICATIONS. PRE AND POST FITOUT WORKS READINGS OF THE ELECTRICAL INSTALLATION SHALL BE PROVIDED TO CONFIRM THAT PROPER BALANCING HAS OCCURRED.

7. COMMUNICATIONS SYSTEMS

- 7.1 PROVIDE NEW CATEGORY 6A CONNECTIVITY STRUCTURED CABLING SYSTEM AND ACHIEVE FULL WARRANTY.
- 7.2 ALL IT SERVICES WORK TO BE DISCUSSED AND COORDINATED WITH THE CLIENT BEFORE INSTALLATION TAKE PLACE. THIS IS TO CONFIRM SCOPE OF WORK.
- 7.3 CONNECTION TO THE EXISTING NBN TO BE PROVIDED FROM THE EXISTING SPORT PAVILION.

8. SECURITY SYSTEM

- 8.1 PROVIDE NEW SECURITY SYSTEM, ASSOAIATED WIRING AND SUPPORTS AS SHOWN ON THE DRAWINGS.

9. FIRE DETECTION OCCUPANT WARNING SYSTEM

- 9.1 PROVIDE NEW DETECTION OCCUPANT WARNING SYSTEM IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- 9.2 WITH RELEVANT AUSTRALIAN STANDARDS AND PROVIDE INDEPENDENT CERTIFICATION OF THE WORKS INCLUDING PAYMENT OF COSTS UPON COMPLETION OF WORKS. ALL TESTS RESULTS TO BE SUBMITTED CARRY OUT ALL SYSTEM TESTS AND COMMISSINING IN ACCORDANCE TOGETHER WITH "AS INSTALLED" DRAWINGS.
- 9.3 ANY TIME A MINIMUM OF 75DBA IS TO BE ACHIEVED THROUGHOUT A SOUND PRESSURE OF 10 DBA ABOVE THE AMBIENT LEVEL AND AT THE BUILDING.

10. GENERAL REQUIREMENTS OF CONTRACT

- 10.1 PRIOR TO COMMENCING WORKS ON SITE, REVIEW THE EXISTING SITE CONDITIONS TO ESTABLISH BUILDING ACCESS PROVISIONS, CEILING CLEARANCES AND RESTRICTIONS WHICH WILL IMPACT ON THE DESIGN OF THE WORKS, CAPACITY OF EXISTING POWER SUPPLY FOR ELECTRICAL SERVICES PLANT WHICH WILL BE RETAINED AND FOR ANY NEW PLANT TO BE INSTALLED.
- 10.2 THE SUB-TRADE CONTRACTOR SHALL FORWARD ALL RELEVANT NOTICES, ARRANGE FOR INSPECTIONS AND PAY ALL FEES TO THE ELECTRICAL INSPECTORS AS REQUIRED IN CONNECTION WITH THIS CONTRACT.
- 10.3 THE INSTALLATION SHALL COMPLY WITH THE FOLLOWING STANDARDS:
 - AS/NZS 3000 - WIRING RULES
 - AS 3008.1 -CABLES FOR ALTERNATING VOLTAGES
 - AS 3439.1 - LOW VOLTAGE SWITCH GEAR AND CONTROL GEAR ASSEMBLIES
 - AS 1680: INTERIOR LIGHTING - PARTS 1 , 2 , 2.1 , 2.2 ,2,3
 - AS/NZ 2293: EMERGENCY EVACUATION LIGHTING FOR BUILDINGS
 - AS/NZS 1670: FIRE DETECTION AND WARNING SYSTEM
 - NATIONAL CONSTRUCTION CODE 2018
 - HEALTH DEPARTMENT REGULATIONS
 - FIRE AUTHORITY REQUIREMENTS
 - VICTORIAN SERVICE & INSTALLATION RULES
- 10.4 NOISY WORKS ARE TO BE UNDERTAKEN OUT OF NORMAL WORKING HOURS TO AVOID DISRUPTION TO OTHER AREAS OR AS AGREED WITH THE TENANT.
- 10.5 TESTING, COMMISSIONING, MAINTENANCE AND DEFECTS LIABILITY FOR THE COMPLETED WORK. THIS SHALL INCLUDE:
 - DEFECTS LIABILITY FOR 52 WEEKS FROM DATE OF PRACTICAL COMPLETION
 - FULL MAINTENANCE DURING THE DEFECTS LIABILITY PERIOD.
- 10.6 AT THE COMPLETION OF THE PROJECT THE ELECTRICAL CONTRACTOR UNDERTAKE A DETAIED INSPECTION OF THE INSTALLATION TO ENSURE COMPLIANCE WITH THE REGULATIONS.
 - THE INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 8 OF AS/NZS 3000 AND SHALL INCLUDE THE FOLLOWING:

VISUAL INSPECTION
CONTINUITY AND RESISTANCE OF THE EARTHING SYSTEM
CONTINUITY OF CONDUCTORS
INSULATION RESISTANCE
POLARITY
CORRECT CIRCUIT CONNECTIONS
SWITCHING
LOADING OF CIRCUITS
RCD TEST AS APPLICABLE

A REPORT INCLUDING ALL TEST RESULTS, IN AN APPROVED FORMAT, SHALL BE SUBMITTED TO THE CONSULTING ENGINEER BEFORE PRACTICAL COMPLETION. THREE COPIES OF THE REPORT SHALL BE SUPPLIED WITH THE MAINTENANCE MANUALS.

ALLOW ALL COSTS ASSOCIATED WITH THIS INSPECTION AND REPORT.

- 10.7 ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS, THIS SPECIFICATION AND OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- 10.8 IF ANY DISCREPANCY OCCURS ON THE CONSULTANTS DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATION, THE CONTRACTOR DURING TENDER SHALL ASSUME LARGER / GREATER QUANTITY / COST. ANY DISCREPANCY SHALL BE REFERRED TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORKS.
- 10.9 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CURRENT AUSTRALIAN STANDARDS AND CODES INCLUDING ALL REVISIONS, AND THE BYLAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES.
- 10.10 ALL DIMENSIONS SHOWN SHALL BE VERIFIED ON SITE. CONSULTANTS DRAWINGS MUST NOT BE SCALED.
- 10.11 THE CONTRACTOR SHALL VISIT THE SITE TO ASCERTAIN THE TRUE NATURE OF WORKS. ANY UNCLEAR ISSUES SHALL BE CLARIFIED WITH THE CONSULTANTS. NO CLAIM SHALL BE ALLOWED FOR EXTRAS WHICH MAY ARISE THROUGH NEGLIGENCE OF THIS ADVICE.
- 10.12 THE CONTRACTOR SHALL PAY ANY/ALL ASSOCIATED AUTHORITY FEES FOR THIS PROJECT.
- 10.13 THE WORKS SHALL BE CAREFULLY EXECUTED TO MINIMISE DISRUPTION TO OPERATION OF THE PREMISE. ALL PROPOSED INTERRUPTION OF POWER SHALL BE FULLY CO-ORDINATED WITH THE PROJECT MANAGER IN ADVANCE WITH A MINIMUM ONE-WEEK NOTICE.
- 10.14 ALL EQUIPMENT SHALL BE ORDERED IN ADEQUATE TIME TO MEET THE CONSTRUCTION PROGRAM.
- 10.15 PROVIDE OF 4 SETS OPERATION AND MAINTENANCE MANUALS INCLUDING"AS INSTALLED " DRAWINGS IN HARD COPIES AND AUTOCAD FORMAT.

11. SHOP DRAWINGS

- 11.1 PROVIDE SHOP DRAWINGS FOR ALL NEW LUMINAIRES, MOTION DETECTORS, EXIT AND EMERGENCY LUMINAIRES, SECURITY DEVICES, FIRE DETECTION, WARNING AND INTERCOM DEVICES.
- 11.2 SHOP DRAWINGS SHALL BE PROVIDED IN A TIMELY MANNER WITH ADEQUATE TIME ALLOWED IN THE OVERALL PROGRAM FOR SHOP DRAWINGS REJECTED FOR RE-SUBMISSION.

12. “AS INSTALLED ” DRAWINGS

- 12.1 TO ENSURE THAT THE PRINCIPAL'S REQUIREMENTS ARE ACHIEVED, A DEDICATED SET OF WORKING DRAWINGS SHALL BE KEPT ON SITE FOR PROGRESSIVE MARKING UP OF "AS INSTALLED " DETAILS BY THE CONTRACTOR'S SITE PERSONNEL. THE SUPERINTENDENT OR CONSULTANT MAY INSPECT THESE DRAWINGS DURING THE PROGRESS OF THE WORKS TO ENSURE THAT ON-SITE MODIFICATIONS ARE BEING ACCURATELY RECORDED.
- 12.2 DURING THE PROGRESS OF THE WORK, THE CONTRACTOR SHALL EMPLOY A COMPETENT DRAFTPERSON TO PROGRESSIVELY RECORD THE MODIFICATIONS ON THE WORKING DRAWINGS IN THE APPROVED ELECTRONIC FORMAT.
- 12.3 INFORMATION ON"AS INSTALLED " DRAWINGS SHALL INCLUDE BUT NOT LIMITED TO LAYOUTS, SINGLE LINE AND WIRING DIAGRAMS, EQUIPMENT SCHEDULES, CABLE TRAY AND CONDUIT RUNS REGARDING THE ACTUAL INSTALLATION.
- 12.4 PRIOR TO OR WITHIN ONE CALENDAR WEEK OF "PRACTICAL COMPLETION" BEING ACHIEVED, THE CONTRACTOR SHALL PROVIDE "AS INSTALLED " DRAWINGS FOR THE WORKS FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PROVIDE FOUR SETS OF HARD COPIES AND ELECTRONIC FILES ON CD-ROM TO THE PRINCIPAL WITHIN TWO WEEKS OF RECEIVING APPROVAL FROM THE SUPERINTENDENT OR THE CONSULTANT. FINAL PAYMENT OF THE CONTRACT SUM WILL NOT OCCUR UNTIL THIS REQUIREMENT IS FULFILLED.
- 12.5 THE CONTRACTOR SHALL RETAIN ONE SET OF THE "AS INSTALLED " DOCUMENT FOR USE BY THEM DURING THE DEFECT LIABILITY PERIOD.

Table with 5 columns: Rev, Date, Amendment Description, By, Chk. Rows include A (27/01/26), B (28/05/26), T1 (29/05/26), T2 (24/06/26).

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Client: Rural City of Wangaratta logo

Consulting Engineer: Ofek Consulting Engineers logo and contact info

Mechanical • Electrical • Hydraulic • Fire • ESD

Project: WANGARATTA SPORTS AQUATIC CENTRE - CHANGE/ AMENITIES

41 SCHILLING DR, WANGARATTA, VIC 3677

Drawing Title: ELECTRICAL SERVICES COVER SHEET & SPECIFICATION

Table with 3 columns: Scale, Date, Drawn, Project No., Drawing No., Revision. Rows include N.T.S @ A1, 24/06/2026, BA, PJ316, E000, T2.

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Project No.	Drawing No.	Revision
PJ316	E050	T2

Status
PRE TENDER ISSUE



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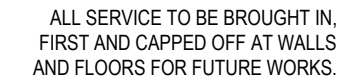
- NOTES:**
1. WILL ADD MECHANICAL AND HYDRAULIC EQUIPMENT WHEN FINALISED
 2. CONFIRM DATA REQUIREMENTS .
 3. CONFIRM LOCATION EXISTING SERVER OR LOCATION OF EXISTING.

 ^{CEILING} - DOUBLE DATA OUTLET / AP - CEILING

- ### ABBREVIATION

- | | | |
|------|---|--|
| AB | - | ABOVE BENCH |
| DB | - | DISTRIBUTION BOARD |
| UB | - | UNDER BENCH |
| FR | - | FREEZER OR FRIDGE |
| HW | - | HOT WATER |
| EX | - | EXHAUST |
| USB | - | POWER OUTLET TO BE PROVIDED WITH USB PORT. |
| CM | - | COFFEE MACHINE |
| OG | - | COFFEE GRINDER |
| OV | - | COMBI OVEN |
| RS | - | ROLLER SHUTTER |
| CL | - | CLEANERS OUTLET |
| RH | - | RANGE HOOD |
| PS | - | PROTECTOR SCREEN |
| E | - | EXISTING |
| IPXX | - | IP RATING |
| POS | - | POINT OF SALE |

- | | |
|-----|------------------|
| MS | COFFEE MACHINE |
| CG | COFFEE GRINDER |
| OV | COMBI OVEN |
| RS | ROLLER SHUTTER |
| CL | CLEANERS OUTLET |
| RH | RANGE HOOD |
| PS | PROTECTOR SCREEN |
| E | EXISTING |
| PPX | P RATING |
| POS | POINT OF SALE |



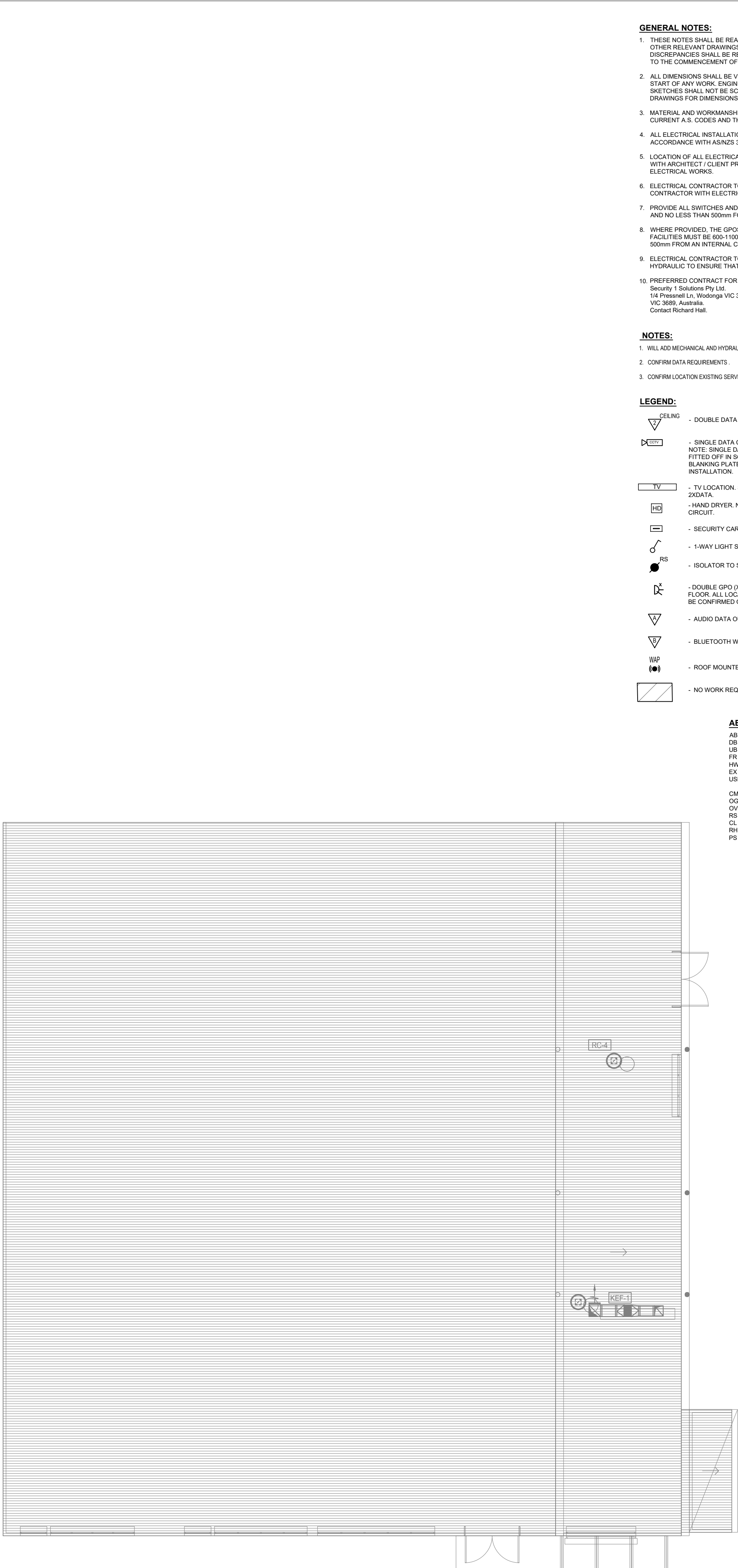
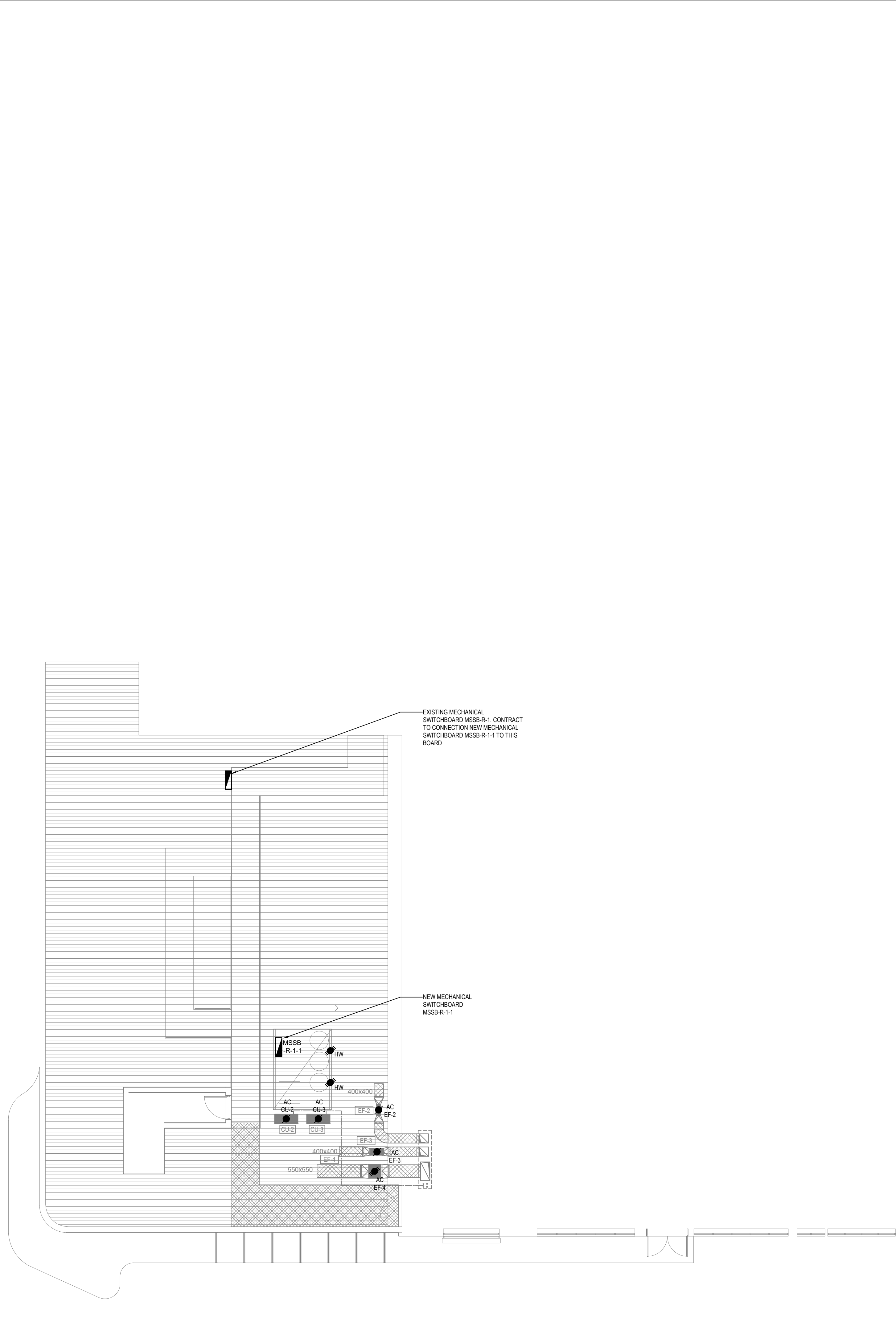
NETBALL LIGHTING CONTROL TO
BE PROVIDED AT THIS LOCATION.
SETUP TO BE THE SAME AS
EXISTING.

NEW UNDERGROUND CONDUIT TO NEW
PILLAR FROM DB-GYM. EXISTING
NETBALL LIGHTING TO HAVE POWER
PROVIDED FROM DB-GYM.
INSTALLATION OF CROMPTON INTEGRA
1630 DIGITAL METERING AND THEN
CONNECT TO THE WSAC BMS.

EXISTING UNDERGROUND
ELECTRICAL CONDUITS.

EXISTING NETBALL COURT LIGHTING TO
BE WIRED BACK TO THIS POINT.
TAP INTO EXISTING UNDERGROUND
ELECTRICAL CONDUITS TO BE RUNS BACK
TO THIS POINT.

EXISTING UNDERGROUND
ELECTRICAL CONDUITS.



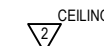
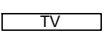
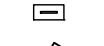
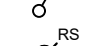
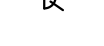
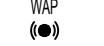
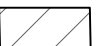
GENERAL NOTES:

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2. ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO THE START OF ANY WORK. ENGINEERS DRAWINGS AND/OR SKETCHES SHALL NOT BE SCALED. REFER TO ARCHITECTS DRAWINGS FOR DIMENSIONS.
3. MATERIAL AND WORKMANSHIP SHALL CONFORM TO RELEVANT CURRENT A.S. CODES AND THE PROJECT SPECIFICATIONS.
4. ALL ELECTRICAL INSTALLATION WORK TO BE INSTALLED IN ACCORDANCE WITH AS/NZS 3000 2018 "WIRING RULES".
5. LOCATION OF ALL ELECTRICAL SERVICES TO BE CONFIRMED WITH ARCHITECT / CLIENT PRIOR TO COMMENCEMENT OF ELECTRICAL WORKS.
6. ELECTRICAL CONTRACTOR TO PROVIDE SECURITY CONTRACTOR WITH ELECTRICAL NEEDS.
7. PROVIDE ALL SWITCHES AND CONTROLS AT 900-1100mm AFFL AND NO LESS THAN 500mm FOR INTERNAL CORNERS.
8. WHERE PROVIDED, THE GPOS IN ACCESSIBLE SANITARY FACILITIES MUST BE 600-1100mm AFFL AND NO LESS THAN 500mm FROM AN INTERNAL CORNER.
9. ELECTRICAL CONTRACTOR TO WORK WITH MECHANICAL AND HYDRAULIC TO ENSURE THAT ALL EQUIPMENT IS SUPPLIED.
10. PREFERRED CONTRACT FOR THE SECURITY SYSTEM IS: Security 1 Solutions Pty Ltd, 1/4 Presswell Ln, Wooronga VIC 3690, Australia. PO Box 337, VIC 3689, Australia. Contact Richard Hall.

NOTES:

1. WILL ADD MECHANICAL AND HYDRAULIC EQUIPMENT WHEN FINALISED.
2. CONFIRM DATA REQUIREMENTS.
3. CONFIRM LOCATION EXISTING SERVER OR LOCATION OF EXISTING.

LEGEND:

-  - DOUBLE DATA OUTLET / AP - CEILING
-  - SINGLE DATA CCTV. NOTE: SINGLE DATA FOR CCTV TO BE FITTED OFF IN SOFFIT WITH SOFFIT BLANKING PLATE FOR FUTURE INSTALLATION.
-  - TV LOCATION. SUPPLY 2xGPO AND 2xDATA.
-  - HAND DRYER. NO MORE THAN 2 PER CIRCUIT.
-  - SECURITY CARD READER.
-  - 1-WAY LIGHT SWITCH.
-  - ISOLATOR TO SUIT ROLL SHUTTERS.
-  - DOUBLE GPO (X IS THE DISTANCE FROM FLOOR. ALL LOCATION AND HEIGHTS TO BE CONFIRMED ONSITE.)
-  - AUDIO DATA OUTLETS
-  - BLUETOOTH WALL PANEL. SEE DETAIL.
-  - ROOF MOUNTED WIFI ROUTER
-  - NO WORK REQUIRED IN THIS AREA

ABBREVIATION

- AB - ABOVE BENCH
- DB - DISTRIBUTION BOARD
- UB - UNDER BENCH
- FR - FREEZER OR FRIDGE
- HW - HOT WATER
- EX - EXHAUST
- USB - POWER OUTLET TO BE PROVIDED WITH USB PORT.
- CM - COFFEE MACHINE
- OG - COFFEE GRINDER
- OV - COMBI OVEN
- RS - ROLLER SHUTTER
- CL - CLEANERS OUTLET
- RH - RANGE HOOD
- PS - PROTECTOR SCREEN

Rev	Date	Amendment Description	By	Chk
A	27/01/26	PRELIMINARY ISSUE	AH	BA
B	28/05/26	PRE TENDER ISSUE	AH	BA
T1	29/05/26	TENDER ISSUE	AH	BA
T2	24/06/26	TENDER ISSUE	AH	BA

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Mechanical • Electrical • Hydraulic • Fire • ESD

Project

**WANGARATTA SPORTS AQUATIC CENTRE -
CHANGE/ AMENITIES**

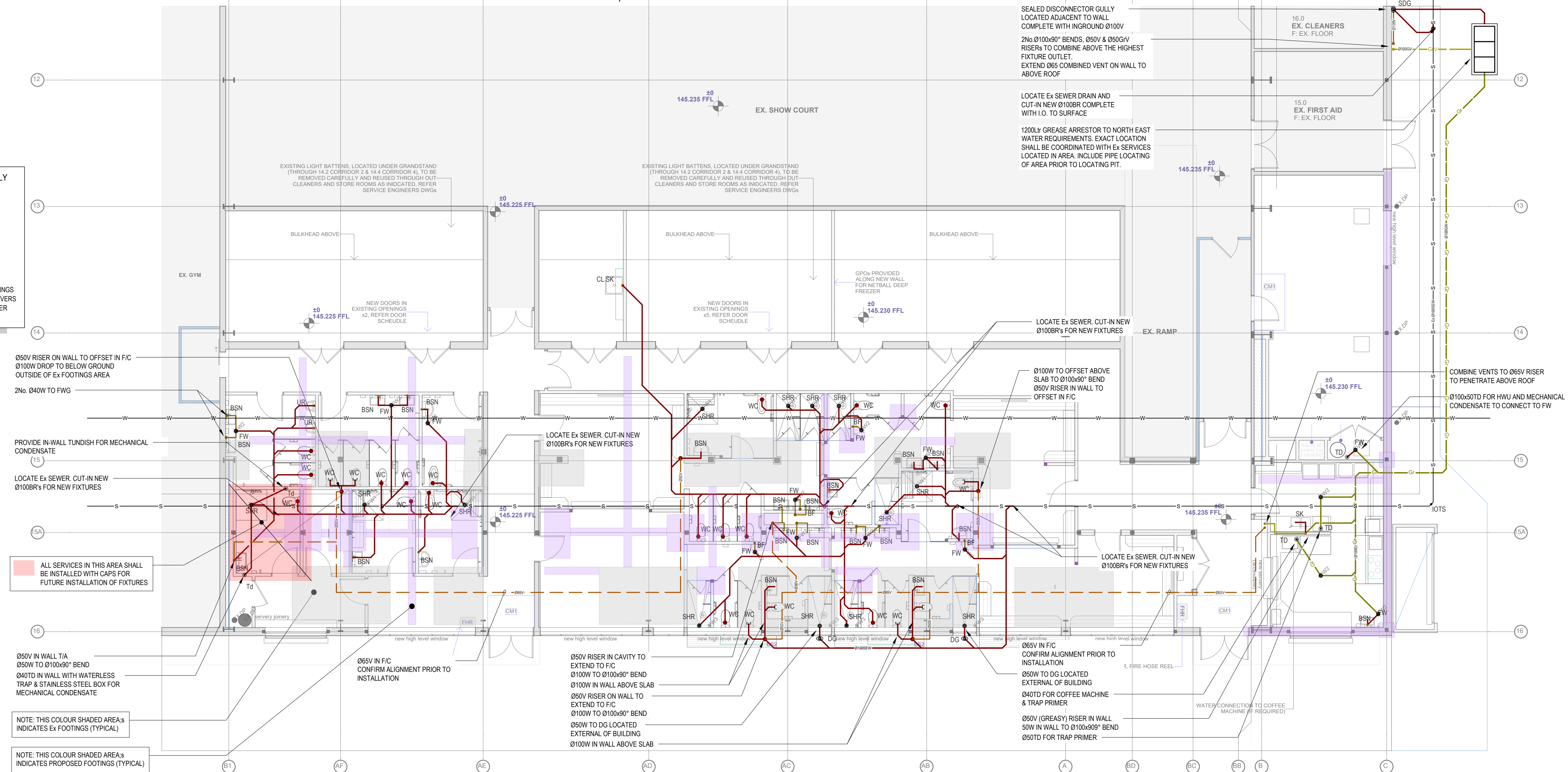
41 SCHILLING DR, WANGARATTA, VIC 3677

Drawing Title

ELECTRICAL SERVICES
PROPOSED ROOF PLAN POWER LAYOUT

Scale	1 : 100 @ A1	Checked	HR
Date	24/06/2026	Approved	HR
Drawn	BA	Verified	HR
Project No.	Drawing No.	Revision	
PJ316	E201	T2	
Status		PRE TENDER ISSUE	
Sheet No.	- of -	© Ofek A1	

- FOOTINGS ARE INDICATED FOR INFORMATION ONLY
AND DO NOT PURPORT TO SHOW ALL. FOR FULL
EXTENT OF FOOTINGS REFER TO STRUCTURAL
DRG. No. S03
- EXISTING FOOTINGS
- PROPOSED FOOTINGS
- ALL SERVICES WITHIN PROPOSED FOOTINGS
SHALL BE WRAPPED AND PLACED AT COVERS
AS APPROVED BY STRUCTURAL ENGINEER



SEWER AND GREASY DRAINAGE LAYOUTS

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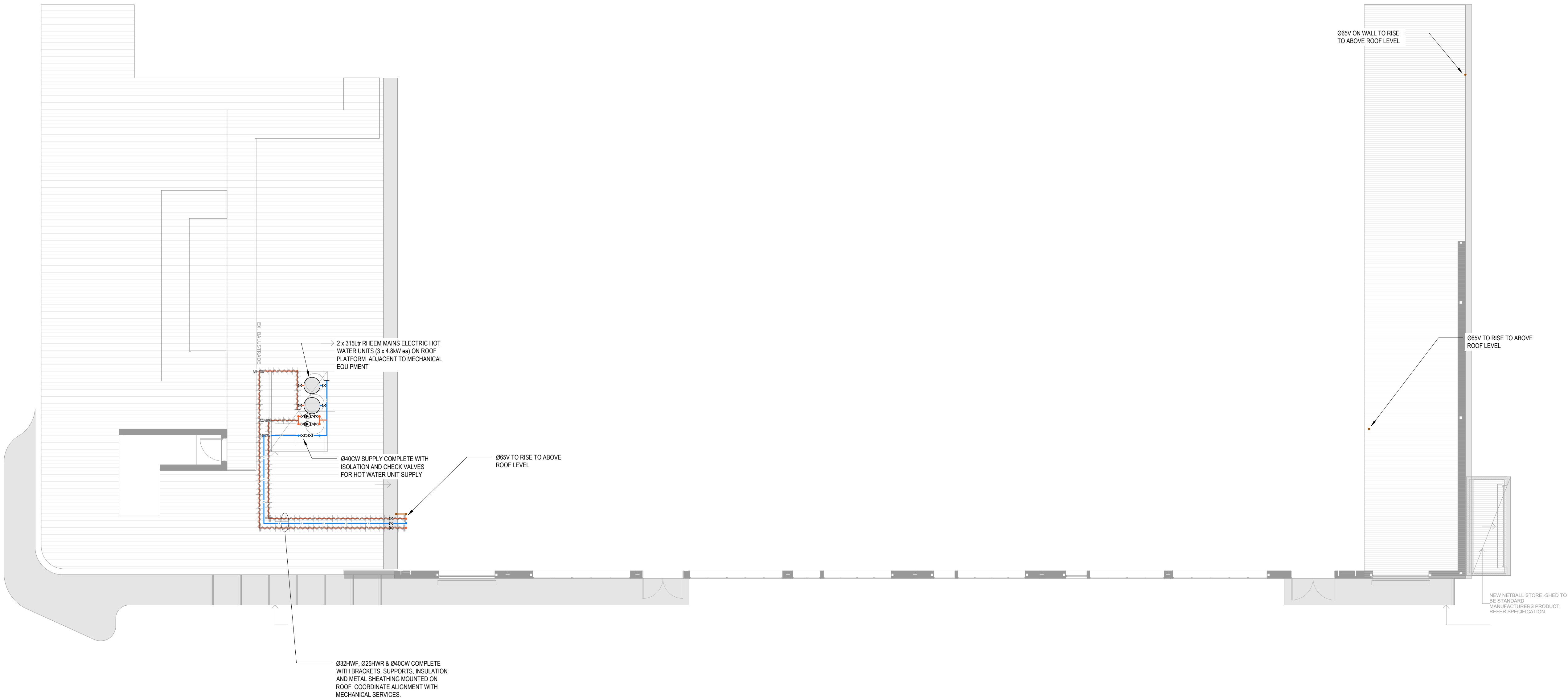
41 SCHILLING DRIVE, WANGARATTA, 3677

Scale	1:100 @ A1	Checked	HR
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Date	02/07/2025	Approved	HR
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Status
TENDER ISSUE

Sheet No. 2 of 3 © Ofek A1



Rev	Date	Amendment Description	By	Chk
T1	26/05/26	TENDER ISSUE	DA	HR
T2	26/06/26	TENDER ISSUE	DA	HR
T3	6/07/26	TENDER ISSUE	DA	HR

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Client



Rural City of
Wangaratta

Consulting Engineer



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Web: www.ofek.com.au
Email: info@ofek.com.au

Mechanical • Electrical • Hydraulic • Fire • ESD

Project

**WANGARATTA SPORTS AQUATIC
CENTRE - CHANGE / AMENITIES**

41 SCHILLING DRIVE, WANGARATTA, 3677

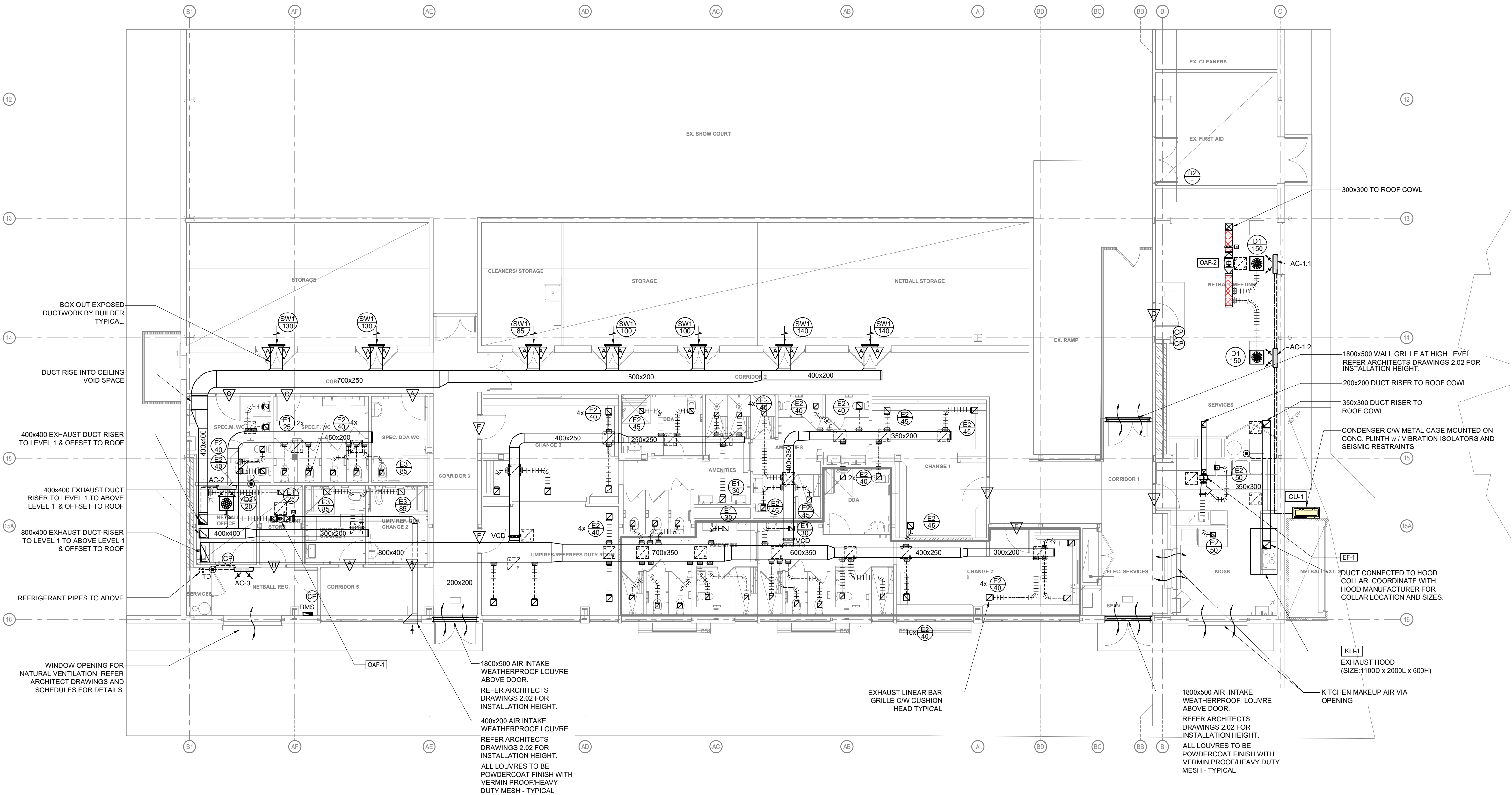
Drawing Title

HYDRAULIC SERVICES

ROOF PLANT LAYOUT

Scale	1:100 @ A1	Checked	HR
Date	02/07/2025	Approved	HR
Drawn	DA	Verified	HR
Project No.	Drawing No.	Revision	
PJ316	H200	T3	
Status			
TENDER ISSUE			
Sheet No.	2 of 3	© Ofek A1	

Sheet No. _____ of _____ © Ofek A



GENERAL NOTES:

1. THESE NOTES SHALL BE READ WITH SPECIFICATIONS AND ALL OTHER RELEVANT DRAWINGS AND/OR SKETCHES. ANY DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.
2. PROVIDE NECESSARY TRANSITIONS AND OFFSETS TO SUIT FAN/COWL CONNECTIONS. COORDINATE WITH STRUCTURE AND OTHER SERVICES.
3. POSITION OF MECHANICAL PLANT AND DUCTWORK LAYOUT ARE INDICATIVE AND DIAGRAMMATIC ONLY. FINAL PANT AND DUCTWORK LOCATION TO BE CONFIRMED ON SITE CONTRACTOR TO MAKE ALLOWANCE FOR DUCT OFFSETS AND TRANSITION. CONTRACTOR TO PROVIDE.
4. MOUNTING OF EQUIPMENT ON THE STRUCTURE SHALL BE INSPECTED & APPROVED BY A STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
5. FINAL LOCATIONS OF CONTROLS TO BE CONFIRMED BY SITE SUPERVISOR PRIOR TO INSTALLATION. INSTALLATION.
6. MAINTAIN FIRE SEPARATION AS SPECIFIED BY THE BUILDING CERTIFIER ESPECIALLY WHEN CONSIDERING PENETRATION OF WALLS AND BETWEEN FIRE COMPARTMENTS.
7. BUILDER TO PROVIDE CEILING ACCESS PANELS AS SHOWN ON THIS DRAWING.
8. MECHANICAL CONTRACTOR TO PROVIDE AC CONDENSATE DRAIN PIPES TO NEAR TUNDISHES. COORDINATE WITH HYDRAULIC TRADE ON SITE FOR FINAL TUNDISHES LOCATION.
9. KITCHEN DUCTWORK SHALL BE MANUFACTURED TO AS 1688.2. PROVIDE DUCT ACCESS PANEL FOR KITCHEN DUCTWORK EVERY 3m AND ELBOW.
10. ALL EXPOSED REFRIGERANT PIPES SHALL BE PROVIDED WITH METAL CLADDING TO PROTECT FROM OUTDOOR WEATHER
11. ALL LOUVRES TO BE POWDERCOAT FINISH WITH VERMIN PROOF/HEAVY DUTY MESH.

This drawing is based on information provided by others, and whilst Ofek endeavours to ensure the correctness of this information, no liability will be accepted for any errors or omissions caused by the use of this information



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Project

**WANGARATTA SPORTS AQUATIC CENTRE -
CHANGE/ AMENITIES**

41 SCHILLING DR, WANGARATTA, VIC 3677

Drawing Title

MECHANICAL SERVICES

GROUND FLOOR PLAN HVAC LAYOUT

Scale	1:100 @ A1	Checked	HR
Date	03/07/2026	Approved	HR
Drawn	AH	Verified	HR
Project No.	Drawing No.	Revision	
PJ316	M100	T2	
Status	TENDER ISSUE		
Sheet No.	- of -	© Ofek A1	



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2. ALL ROOF PENETRATIONS AND UPSTANDS BY BUILDER TRADES. FINAL PENETRATION, LOCATIONS TO BE COORDINATED BY MECHANICAL CONTRACTOR. COORDINATE PENETRATIONS WITH ROOF STRUCTURAL, BEAMS AND OTHER SERVICES.
3. ALL OVER-FLASHING AROUND DUCTWORK AND PIPE-WORK PENETRATIONS THROUGH ROOF BY MECHANICAL CONTRACTOR.
4. PROVIDE NECESSARY TRANSITIONS AND OFFSETS TO SUITE FAN/COWL CONNECTIONS COORDINATE WITH STRUCTURE AND OTHER SERVICES.
5. DUCTWORK LAYOUT ARE DIAGRAMMATIC/INDICATIVE ONLY. CONTRACTOR TO MAKE ALLOWANCE FOR DUCT OFFSETS AND TRANSITION. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR CONSTRUCTION.
6. BUILDER TO PROVIDE SAFE ACCESS, LADDERS, HAND RAILS TO ROOF. REFER ARCHITECT DRAWINGS FOR DETAILS.
7. ALL MECHANICAL PLANT SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 8 OF AS 1170.4 COMPLETE WITH VIBRATION ISOLATOR AND SEISMIC RESTRAINTS.
8. ALL ROOF COWLS AND FANS SHALL BE POWDERCOATED TO MATCH THE ROOF.
9. ALL EXPOSED REFRIGERANT PIPES SHALL BE PROVIDED WITH METAL CLADDING TO PROTECT FROM OUTDOOR WEATHER.

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Drawing Title

MECHANICAL SERVICES

ROOF & UPPER FLOOR PLAN HVAC LAYOUT

Scale	1:100 @ A1	Checked	HR
Date	03/07/2026	Approved	HR
Drawn	AH	Verified	HR
Project No.	PJ316	Drawing No.	M200
Status		Revision	
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