LEGEND OF SYMBOLS

LUMINARIES

L1 — 45W/4500lm 1265mm SURFACE-MOUNTED LED WEATHERPROOF BATTEN LUMINAIRE, COMPLETE WITH INTEGRAL CONTROL GEAR, IP65/IK08 RATING, 4000K CCT LED'S, FROSTED PRISMATIC DIFFUSER AND GREY TRIM.
SELECTION: GERARD LIGHTING 'PIERLITE BWP ECO LED BATTEN' SERIES.

L2 — AS PER TYPE 'L1' EXCEPT 22W/2200lm.

L3 — AS PER TYPE 'L1' EXCEPT 20W/2000lm, AND 655mm LONG.

L4 — 1.8W LED CATENARY WIRED FESTOON LUMINAIRE AT 600mm LUMINAIRE SPACING, COMPLETE WITH ELECTRONIC CONTROL GEAR AND 2400K CCT LED'S, INCLUDING ALL REQUIRED MOUNTING GEAR AND ACCESSORIES.
SELECTION: INLITE SA TOKISTAR 'EXHIBITOR' SERIES.

D1 — 10W/1051lm Ø105mm RECESSED LED DOWNLIGHT LUMINAIRE, COMPLETE WITH ELECTRONIC CONTROL GEAR, 4000K CCT LED, 70° BEAM ANGLE, AND IP65 RATED AX-LOCK (A921-DL) SOFT DIFFUSION LENS WITH WHITE TRIM.
SELECTION: GERARD LIGHTING 'DOT 9100 XL' SERIES.

D2 — AS PER TYPE 'D1' EXCEPT 14W/1447lm.

D3 — AS PER TYPE 'D1' EXCEPT 21W/1954lm.

WL1 — 20W/1911lm Ø100mm WALL-MOUNTED UP/DOWN CAN-STYLE LUMINAIRE, COMPLETE WITH INTEGRAL CONTROL GEAR, 3000K CCT LEDS, 35° BEAM ANGLE REFLECTORS, IP65 RATING AND DARK GREY TRIM.
SELECTION: INLITE DELTA LIGHT 'DOX 100 DOWN UP LED N' SERIES.

WL2 — 12W/1000lm Ø300mm WALL-MOUNTED LED OYSTER LUMINAIRE, COMPLETE WITH INTEGRAL CONTROL GEAR AND DAYLIGHT SENSOR, 4000K CCT LED'S, IP66/IK10 RATING, SEALED POLYCARBONATE DIFFUSER AND BLACK STAINLESS STEEL 'EYELID' TRIM.
SELECTION: GERARD LIGHTING 'PIERLITE SIRROCO II LED BULKHEAD' SERIES.

SL1 — 20W/1768lm Ø105mm WALL-MOUNTED DIRECTIONAL LED SPOTLIGHT LUMINAIRE, COMPLETE WITH ELECTRONIC CONTROL GEAR, 3000K CCT LEDS, 35° BEAM ANGLE REFLECTOR, IP65 RATING, AND DARK GREY TRIM INCLUDING 'HONEYCOMB KIX' FILTER.
SELECTION: INLITE DELTA LIGHT 'KIX HP 93011' SERIES.

P1 — FEATURE PENDANT LUMINAIRE IN MAIN FOYER.
SELECTION: TBA - ALLOW PC SUM OF $5000

HB1 — 200W/28000lm Ø340mm SUSPENDED LED HIGHBAY LUMINAIRE, COMPLETE WITH INTEGRAL CONTROL GEAR, 5000K CCT LED'S, 120° BEAM ANGLE, IP65/IK08 RATING, AND BLACK POWDER COAR TRIM, COMPLETE WITH ALL REQUIRED MOUNTING GEAR AND ACCESSORIES.
SELECTION: GERARD LIGHTING 'PIERLUX ECO HIGHBAY GEN4' SERIES.

FL1 — 100W/11000lm EXTERNAL LED POST-TOP LUMINAIRE, COMPLETE WITH 4000K CCT LED'S, POLYCARBONATE LENS WITH TYPE 2 BEAM DISTRIBUTION, IP65/IK07 RATING, AND BLACK POWDER COATED ALUMINIUM TRIM. MOUNTED TO 6m HIGH POLE WITH MATCHING TRIM, COMPLETE WITH ALL REQUIRED MOUNTING GEAR AND ACCESSORIES.
SELECTION: GERARD LIGHTING 'PIERLITE DOMAIN LED' SERIES.
W - DENOTES WALL MOUNTED.

EM — 4W NON-MAINTAINED RECESSED LED EMERGENCY LUMINAIRE, COMPLETE WITH C0/C90=D63/D63 CATEGORY SPACING, LP PREMIUM BATTERY PACK, IP20 RATING, CLEVERTEST PLUS ENABLED AND WHITE TRIM.
SELECTION: CLEVERTRONICS 'LP LIFELIGHT PRO CLIFE-PRO' SERIES.
SM - DENOTES SURFACE MOUNTED TYPE (CLIFE-PRO-SMS)

4W MAINTAINED SEMI-RECESSED LED EMERGENCY EXIT LUMINAIRE, COMPLETE WITH C0/C90=E6.3/E6.3 CATEGORY SPACING, 24m VIEWING DISTANCE, LP PREMIUM BATTERY PACK, IP20 RATING, CLEVERTEST PLUS ENABLED, AND WHITE TRIM WITH DIRECTIONAL 'RUNNING MAN' PICTOGRAPH INSERT AS INDICATED.
SELECTION: CLEVERTRONICS 'LP ULTRABLADE PRO CUBPRO' SERIES.
SM - DENOTES SURFACE MOUNTED TYPE (CUBPRO-SM)

LUMINAIRE ACCESSORIES

SINGLE WAY LIGHT SWITCH
G - REFERS TO NUMBER OF GANGS ON SWITCH

180° LIGHTING MOTION SENSOR

360° LIGHTING MOTION SENSOR
SM - DENOTES SURFACE MOUNTED

PE-CELL CONTROLLED CIRCUIT

TIME CLOCK CONTROLLED CIRCUIT

SWITCHED LIGHTING CIRCUIT

SWITCHBOARDS

MSB — MAIN SWITCHBOARD

DB — DISTRIBUTION BOARD

LSSB — LIFT SERVICES SWITCHBOARD

ACCESSORIES

SINGLE SWITCHED SOCKET OUTLET.

DUAL 10 AMP SWITCHED SOCKET OUTLET.

ONE OR THREE PHASE W/P ISOLATORS. (RATED TO SUIT LOAD).

UTILITY TRANSFORMER / KIOSK SUB-STATION. SIZE AS SHOWN.

TRAFFICABLE COMMUNICATIONS PIT - MINIMUM 600mm x 600mm.
FINAL POSITION TO BE APPROVED ON SITE.

TELSTRA PIT.

ONT — OPTICAL NETWORK TERMINATION DEVICE.

RDT — OPTICOMM RAPID DEPLOYMENT TERMINAL.

FDN — OPTICOMM FIBRE DISTRIBUTION NODE.

SINGLE PHASE, THREE PHASE.

E — NEW ELECTRICAL CABLE/CONDUIT PATHWAY.
PATHWAY TO BE UNDERGROUND UNLESS OTHERWISE STATED.

C — NEW COMMUNICATIONS CABLE/CONDUIT PATHWAY.
PATHWAY TO BE UNDERGROUND UNLESS OTHERWISE STATED.

HV — HIGH VOLTAGE CONDUIT PATHWAY.

LV — LOW VOLTAGE PATHWAY.

CIRCUIT CONNECTION LINE.

SINGLE PHASE, THREE PHASE.

COMMUNICATIONS CABLE TRAY SYSTEM INCLUSIVE OF ALL ACCESSORIES.

ELECTRICAL CABLE TRAY SYSTEM INCLUSIVE OF ALL ACCESSORIES.

IL — INDUCTION LOOP.

1 E50 (E)
- EXISTING OR NEW
- DIAMETER OF CONDUIT
- SERVICES TYPE
  - E - DENOTES ELECTRICAL SERVICES
  - C - DENOTES COMMUNICATIONS SERVICES
  - P - DENOTES STANDARD PIPE SIZE
- No. OF CONDUITS PARALLEL

COMMUNICATIONS

CC — COMMUNICATIONS CABINET

RJ45(CAT6) COMMUNICATIONS OUTLET
2 - DENOTES TWIN OUTLET
FTA - DENOTES FREE-TO-AIR OUTLET
TV - DENOTES TV OUTLET

INTERCOM UNIT
M - DENOTES MASTER UNIT

SECURITY SERVICES

SCP — MAIN SECURITY CONTROL PANEL

ES — ELECTRIC STRIKE

CR — CARD READER

KP — KEYPAD

EM — ELECTROMAGNETIC LOCK

RD — ROLLER DOOR

RS — REED SWITCH

BG — PUSH-TO-EXIT BREAK GLASS SWITCH

PB — PUSH-TO-EXIT BUTTON

FIXED/360-DEGREE CLOSED CIRCUIT TELEVISION CAMERA

SMOKE ALARM WITH SOUNDER BASE (AS3786)

SCHEMATIC SYMBOLS

CIRCUIT BREAKER

ISOLATOR

MACB/RCD

FUSE

UTILITY/AUTHORITY CONNECTION POINT

TRANSFORMER

CURRENT TRANSFORMER

kWh — KILOWATT HOUR AUTHORITY/UTILITIES METER

PMU — POWER MONITORING UNIT

CASTEL KEY

N / E — NEUTRAL AND EARTH BAR LINK (MEN)

EARTH

ASSOCIATED ABBREVIATIONS

AB	MOUNTED 150 ABOVE BENCH HEIGHT
AD	AUTOMATIC DOOR
CHWP	CENTRAL HOT WATER PLANT
CL	CLEANERS OUTLET
CM	CEILING MOUNTED
CPEF	CAR PARK EXHAUST FAN
CPSF	CAR PARK SUPPLY FAN
CS	MOUNTED IN CEILING SPACE
DCWP	DRINKABLE COLD WATER PUMP SET
DHWP	DRINKABLE HOT WATER PUMP SET
DP	DEISEL PUMP
GEF	GENERAL EXHAUST FAN
HL	HIGH LEVEL
IC	IRRIGATION CONTROLLER
JP	JACKING PUMP
OAF	OUTSIDE AIR FAN
ONT	OPTICAL NETWORK TERMINATION
SI	SIGNAGE
RD	ROLLER DOOR
SEPS	SEWER EJECTOR PUMP STATION
SNA	SAUNA POWER SUPPLY
SM	SURFACE MOUNTED
TEF	TOILET EXHAUST FAN
UB	MOUNTED UNDER BENCH
WP	WEATHERPROOF
5G	5 GANG SWITCH PLATE. (OR No. OTHERWISE SHOWN)
15A	15 AMP RATING MINIMUM. (OR AS OTHERWISE SHOWN)
1000	MOUNT AT 1000 AFFL OR HEIGHT AS SHOWN

GENERAL NOTES

1. READ ELECTRICAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS, DETAILS AND ELECTRICAL SPECIFICATION.
2. THE BUILDER SHALL ENGAGE THE SERVICES OF A LICENSED ELECTRICAL CONTRACTOR TO UNDERTAKE THE ELECTRICAL SERVICES AND ASSOCIATED WORKS.
3. THE EXTENT OF WORKS INDICATED ON THE DRAWINGS CALL FOR THE PROVISION OF SYSTEMS COMPLETE IN EVERY RESPECT, FIT AND READY FOR CONTINUOUS SAFE EFFICIENT OPERATION. THE ELECTRICAL CONTRACTOR SHALL THEREFORE SUPPLY, DELIVER, INSTALL, TEST, COMMISSION AND SET TO WORK THE SYSTEMS INDICATED ON THE DRAWINGS. THE FINISHED INSTALLATION SHALL BE COMPLETED WITH ALL NECESSARY ANCILLARY AND MINOR ITEMS, WHETHER EXPRESSLY INDICATED ON THE DRAWINGS OR NOT.
4. COMPLY WITH ALL RELEVANT CODES AND STATUTORY REQUIREMENTS IN PARTICULAR THE NATIONAL CONSTRUCTION CODE, AS3000, AS3008 AND AS2293 AND ALL REGULATORY AUTHORITIES REQUIREMENTS.
5. TAKE DIMENSIONS FOR LOCATION OF ITEMS FROM ARCHITECTS DRAWINGS AND FROM SITE MEASUREMENTS. LOCATIONS OF EXISTING SERVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE EXACT LOCATIONS AND EXTENT OF EXISTING EQUIPMENT SHALL BE VERIFIED ON SITE BY THE ELECTRICAL CONTRACTOR PRIOR TO WORK COMMENCING.
6. LOCATIONS OF ALL NEW OUTLETS, LUMINAIRES, SWITCHES ETC SHOWN ON ELECTRICAL DRAWINGS ARE INDICATIVE. THE EXACT LOCATIONS, MOUNTING HEIGHTS ETC SHALL BE DETERMINED FROM THE ARCHITECT'S DIMENSIONED PLANS, SECTIONS, ELEVATIONS AND DETAILS.
7. COORDINATE WITH OTHER TRADES TO AVOID CLASHES OF SERVICES. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE ALL WORKS WITH THE OTHER TRADES PRIOR TO INSTALLATION. NO EXTRA COSTS WILL BE PAID IF CO-ORDINATION WAS NOT CARRIED OUT PRIOR TO THE INSTALLATIONS OF THE EQUIPMENT
8. ALL PENETRATIONS OF FIRE RATED WALLS, SLABS AND CEILINGS OR THE INSTALLATION OF ELECTRICAL SERVICES SHALL BE CONSTRUCTED AND SEALED BY THE ELECTRICAL CONTRACTOR AFTER INSTALLATION OF CABLES OR EQUIPMENT, IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA, TO PRESERVE THE INTEGRITY OF THEIR FIRE RATING.
9. CONNECT A MAXIMUM OF 6 x TWIN SOCKET OUTLETS ON A POWER CIRCUIT. CONNECT A MAXIMUM OF 1700VA OF LIGHTING TO A LIGHTING CIRCUIT. PROVIDE NEW TYPED LEGEND CARDS.
10. PROVIDE POWER SUPPLIES TO EQUIPMENT TERMINATING IN ISOLATORS OR OUTLETS AS APPROPRIATE. COORDINATE WITH THE RESPECTIVE TRADE CONTRACTOR. LOCATE TO SUIT FINAL EQUIPMENT LOCATION.
11. SURVEY FOR EXISTING UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF THE PROPOSED EXCAVATION.
12. ELECTRICAL TRADE TO FULLY CO-ORDINATE EQUIPOTENTIAL BONDING OF CONCRETE SLAB AND BEAM REINFORCEMENTS WITHIN SHOWER AND BATHROOM AREAS (INCLUDING FLOORS & WALL REINFORCEMENT) WITH CONCRETE TRADE IN ACCORDANCE WITH AS3000 SECTION 5.6.
13. PROVIDE AND OR MODIFY AS2293.1 CONTROLS AT SWITCHBOARD. WIRE ALL SPA EXIT/EMERGENCY LIGHTS VIA NEW UNSWITCHED ACTIVE RUN FROM THE MCB OF THE LOCAL LIGHTING CIRCUIT VIA THE NEW AS2293.1 CONTROL TO APPROVAL.
14. INSTALL RECESSED LUMINAIRES IN A MANNER TO MINIMISE TEMPERATURE RISE AND PREVENT RISK OF FIRE IN ACCORDANCE WITH AS3000:2007 CLAUSE 4.5.2.3.
15. COORDINATE LOCATIONS OF CABLE TRAY WITH OTHER SERVICES ON SITE. PROVIDE ALL WALL PENETRATIONS AND SEAL UPON COMPLETION. PROVIDE ALL RISE/FALL TRANSITIONS FOR CABLE TRAY ROUTE.
16. ALL NEW LIGHT SWITCHES, OUTLETS AND CONNECTIONS SHALL BE LABELLED WITH THEIR RESPECTIVE CIRCUIT AND DISTRIBUTION BOARD NUMBERS WITH COLOURED IPA MARKERS. CIRCUIT SCHEDULES AT DISTRIBUTION BOARDS AFFECTED BY THESE WORKS SHALL BE UPDATED WITH NEW TYPED CIRCUIT SCHEDULES. HAND WRITTEN OR ADHESIVE PRINTED TAPE WILL NOT BE ACCEPTED
17. ALL LUMINAIRES SHALL BE CLEANED PRIOR TO PRACTICAL COMPLETION.
18. ALL NEW WIRING SHALL BE CONCEALED FROM VIEW. WHERE THIS IS NOT POSSIBLE, WIRING SHALL BE ENCLOSED IN SURFACE RUN RIGID PVC CONDUIT. ALL SURFACE CONDUIT RUNS SHALL BE AGREED WITH THE ARCHITECT BEFORE INSTALLATION OCCURS. ALLOW TO PAINT ALL SURFACE CONDUITS AND ACCESSORIES TO MATCH COLOUR OF THE WALL.
19. PROVIDE FIRE RATED AND ACOUSTIC BACK BOXES TO ALL ELECTRICAL EQUIPMENT INSTALLED ON INTER-APARTMENT OR INTER-TENANCY WALLS.
20. PRIOR TO PRACTICAL COMPLETION, PROVIDE THE FOLLOWING MINIMUM DOCUMENTS:
    - SIGNED ELECTRICAL CERTIFICATE(s) OF COMPLIANCE FOR ALL WORKS UNDERTAKEN
    - TYPED AND LAMINATED LEGEND CARDS FOR ALL NEW / MODIFIED DISTRIBUTION BOARDS
    - TEST RESULTS FOR ALL NEW / REUSED / EXISTING RCD/MCB'S AND FOR ALL EMERGENCY LIGHTS AND EXIT SIGNS.
21. SMOKE ALARMS SHALL BE POSITIONED A MINIMUM OF 300mm FROM A WALL OR CEILING BULKHEAD AND 400mm FROM A MECHANICAL SUPPLY AIR OUTLET OR CEILING FAN.

REV'N	DESCRIPTION	DATE	CHK'D
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PROJECT
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ELECTRICAL SERVICES

DRAWING
GENERAL NOTES AND LEGEND OF SYMBOLS

NOT FOR CONSTRUCTION PURPOSES UNLESS STAMPED FOR CONSTRUCTION. VERIFY DIMENSIONS AND LEVELS ON SITE BEFORE SETTING OUT. DO NOT SCALE. REFER TO FIGURED DIMENSIONS - IN mm UNLESS OTHERWISE STATED.

Scale	Design: MD	No. in Set	Date
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