LEGEND

ELECTRICAL SERVICES SWITCHBOARD / NBN NTD AS NOTED

LIFT CONNECTION

CONDUIT ROUTE

ELECTRICAL PIT, TYPE AS NOTED. PIT x 🗖

 \times ELECTRICAL EQUIPMENT AS NOTED.

FIRE DETECTION EMERGENCY WARNING CIE. FDCIE

- FIRE DETECTION EMERGENCY WARNING MIMIC PANEL MPCIE CIE.
- FIRE EVACUATION SPEAKER.
- FIRE ALARM HORN.
- Y MANUAL CALL POINT.
- THERMAL DETECTOR.
- \leq SMOKE DETECTOR.
- ASPIRATING SMOKE DETECTOR.
- VAD VISUAL ALARM DEVICE.
- AS1786 SMOKE ALARM C/W MAINS SUPPLY 10 YEAR S BATTERY BACKUP INTERCONNECTED AS INDICATED.
- M1 RETAIL METER.

M2

M3

MSB

MP1

- NEM CODE COMPLIANT EMDI MK10A ELECTRICITY
- NOT REQUIRED.
- ENERGY MONITORING SYSTEM METER AS PER J8.3 OF THE NCC BCA 2019. FUSE.
- SINGLE PHASE.
- THREE PHASE.
- CURRENT TRANSFORMER C/W REMOVABLE LINK.
- \Box FUSE LINK.
- CIRCUIT BREAKER ✓ ×
- ISOLATOR
- NBN NETWORK TERMINATION DEVICE. NTD
- SDT NBN FIBRE SPLITTER DISTRIBUTION TERMINAL.
- FDT NBN FIBRE DISTRIBUTION TERMINAL.
- BUDIM NBN BUILDING DISTRIBUTION ENCLOSURE TYPE M.
 - EXISTING MAIN SWITCHBOARD.
 - EXISTING RETAIL METER PANEL 1.
- MP2 EXISTING RETAIL METER PANEL 2.
- MP3 EXISTING RETAIL METER PANEL 3.

LEGEND

- REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.
- E1: GENERAL EMERGENCY LIGHT. RECESSED NON-MAINTAINED E1 🔂 EMERGENCY EVACUATION FITTING. AS2293 CLASSIFICATION CO – D25 C90 – D25
- GENERAL EMERGENCY LIGHT. MALL MOUNTED AT 2400 Ю E2: AFFL NON-MAINTAINED EMERGENCY EVACUATION FITTING. AS2293 CLASSIFICATION CO - D25 C90 - D25
- EX: EMERGENCY EXIT LIGHT. MAINTAINED EXIT LUMINAIRE C/W 24m VIEWING DISTANCE LOGO AND DIRECTIONAL ARROWS AS SHOWN. MOUNT BETWEEN 2100 AND 2700 AFFL OR DIRECTLY ABOVE THE DOOR. AS2293 CLASSIFICATION CO - D3. 2 C90 -E3. 2
- L1: 1200 LONG BATTEN FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. AS2293 CLASSIFICATION CO -D40 C90 – D40
 - L2: 600 LONG BATTEN FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. AS2293 CLASSIFICATION CO -D40 C90 - D40

ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793	
TRADING AS: ELECTRICAL DESIGN GROUP	

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USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.	
ALL DIMENSIONS TO BE VERIFIED ONSITE.	

NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: - SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES. CO-ORDINATION.

- INSPECTIONS. TESTING AND COMMISSIONING.
- MAINTENANCE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS - POWER DISTRIBUTION.
- NBN PATHWAYS.
- FIRE ALARM SYSTEM.

- ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE ELECTRICAL SERVICES INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

PRIOR TO COMMENCING WORK CONSULT SITE MANAGEMENT FOR ANY HAZARDOUS MATERIAL AND OR ASBESTOS REGISTERS AS WELL AS UNDERTAKE A THOROUGH INSPECTION OF THE SITE TO IDENTIFY ANY POTENTIAL HAZARDOUS MATERIALS, ASBESTOS AND HEALTH OR SAFETY RISKS. ADVISE THE CONTRACTOR OF ANY POTENTIAL HAZARDOUS MATERIALS, ASBESTOS AND HEALTH OR SAFETY RISKS IF IDENTIFIED AND DO NOT COMMENCE WORK UNTIL AN APPROPRIATE MANAGEMENT PLAN HAS BEEN DEVELOPED AND AGREED TO BY ALL PARTIES.

SUPPLY ALL LABOUR, MATERIALS, EQUIPMENT, AND ALL OTHER ITEMS, WHETHER MENTIONED IN DETAIL OR NOT, REQUIRED FOR THE SATISFACTORY COMPLETION OF THE ELECTRICAL SERVICES INSTALLATION, LEAVING IN FULL WORKING ORDER TO THE SATISFACTION OF THE PROJECT MANAGER.

ACCEPT FULL RESPONSIBILITY FOR LIASING. ARRANGING AND CO-ORDINATION ALL WORKS THAT HAVE AN EFFECT ON OR WILL BE AFFECTED BY THE ELECTRICAL SERVICES.

REMOVE ALL OF THE EXISTING ELECTRICAL SERVICES THAT BECOME REDUNDANT DUE TO THE WORKS.

2. WORKMANSHIP

ENSURE THAT THE WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR LICENSE. ENSURE THE INSTALLATION AND ALL COMPONENTS, FIXTURES, FITTINGS, OUTLETS AND CABLES ARE SUPPLIED AND INSTALLED TO A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER. TO THE CURRENT INDUSTRY STANDARDS. ENSURE ALL MATERIALS AND COMPONENTS OF A SIMILAR TYPE ARE OF THE SAME MANUFACTURER AND INSTALLED IN A UNIFORM MANNER.

IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE INSTALLATION IS FIT FOR PURPOSE AND IS PROVIDED AS A COMPLETE WORKING INSTALLATION. IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL COMPONENTS, FITTINGS, FIXTURES, SYSTEMS, PROGRAMMING ETC IRRESPECTIVE OF THE LEVEL DETAILED IN THE DOCUMENTS SUCH THAT THE INSTALLATION IS PROVIDED AS A COMPLETE WORKING INSTALLATION.

CONCEAL ALL WIRING AND CONDUITS. EXPOSED CABLING OR CONDUITS ARE GENERALLY NOT ACCEPTABLE. IT IS NOTED THAT CHASING AND REINSTATEMENT WILL BE REQUIRED. ENSURE ALL COMPONENTS, EQUIPMENT AND MATERIALS SUPPLIED ARE NEW, UNUSED, DESIGNED AND SELECTED TO ENSURE SATISFACTORY OPERATION UNDER VARYING ATMOSPHERIC, CLIMATIC, HUMID TROPICAL CONDITIONS WITHOUT DISTORTION AND DETERIORATION IN ANY PART AFFECTING EFFICIENCY AND RELIABILITY OF THE SYSTEMS. DESIGN AND SELECT ALL EQUIPMENT TO PROVIDE THE NECESSARY SAFETY TO HUMAN LIFE AND PROPERTY DURING OPERATION AND MAINTENANCE WITH PARTICULAR ATTENTION GIVEN TO ELECTRICAL SAFETY AND SEGREGATION PRECAUTIONS.

CHECK THE FINISHED PAINTWORK AROUND THE AREA OF EACH INSTALLATION AND TOUCH UP ALL DAMAGED PARTS AND FINISHES AFTER THE INSTALLATION OF THE ELECTRICAL SERVICES.

ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDER'S PROGRAM. ENSURE ALL FINAL LOCATIONS OF OUTLETS AND FITTINGS ARE CO-ORDINATED ONSITE WITH THE ARCHITECT AND ALL OTHER SERVICES, TO THE APPROVAL OF THE PROJECT MANAGER. ALLOW TO CO-ORDINATE THE FINAL LOCATION OF ALL EQUIPMENT, FITTINGS, & OUTLETS, SUCH THAT THEY ARE INSTALLED IN ACCORDANCE WITH THE AS3000 RESTRICTED ZONES, AND ARE NOT COVERED INAPPROPRIATELY.

ENSURE THAT ALL METAL SURFACES ARE SUITABLY PROTECTED AGAINST CORROSION, AND THAT ALL PLASTIC MATERIALS ARE UV STABILISED.

PROVIDE ALL MATERIALS AS NEW, AND OF THE HIGHEST CLASS AVAILABLE FOR THEIR RESPECTIVE TYPES. ENSURE ALL ASPECTS OF THE WORK ARE OF A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS.

3. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE ELECTRICAL SERVICES DOCUMENTS OR IN INSTRUCTIONS. IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL ELECTRICAL SERVICES WORKS ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE ELECTRICAL SERVICES DOCUMENTS AND INSTRUCTIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PLACING OF ORDERS, FABRICATION OR INSTALLATION OF THE ITEMS/METHODS IN DISCREPANCY.

- NCC BUILDING CODE OF AUSTRALIA.
- ELECTRICITY ACT. - ELECTRICAL SAFETY ACT.
- ENERGEX REQUIREMENTS.

- THE QUEENSLAND ELECTRICITY CONNECTION MANUAL V4 (QECM) AND THE NATIONAL ELECTRICITY METERING STANDARDS (NEM).

- AS/NZS3000. – AS3008.
- AS1670.1
- AS3786.
- BUILDING FIRE SAFETY (DOMESTIC SMOKE ALARMS) LEGISLATION AMENDMENT REGULATION 2016 LOCAL BRIGADE.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT. ACMA REQUIREMENTS.

4. AUTHORITIES

ENSURE ALL OF THE ELECTRICAL SERVICES COMPLY WITH THE REQUIREMENTS OF ALL REGULATORY AUTHORITIES HAVING JURISDICTION OVER THE SITE INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- ACMA.
- LOCAL COUNCIL - LOCAL SUPPLY AUTHORITY.
- STATE GOVERNMENT DEPARTMENT OF ENVIRONMENT AND HERITAGE.
- QLD GOVERNMENT, DIVISION OF WORKPLACE, HEALTH AND SAFETY. - QLD FIRE AND RESCUE AUTHORITY.
- 5. CABLES

UNLESS OTHERWISE SPECIFIED. INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. DETERMINE THE FINAL ROUTES TO SUIT THE BUILDING STRUCTURE AND SITE CONDITIONS. UNLESS NOTED OTHERWISE, PROVIDE ALL 240 VOLT POWER AND LIGHTING WIRING AS 2.5mm² TWIN & EARTH STRANDED COPPER CONDUCTORS, PVC INSULATED 0.6/1kV V75 GRADE TO AS3174. PROTECTED BY A 20 AMP CIRCUIT BREAKER. ALL CONDUIT AND FITTINGS TO BE RIGID UPVC TO AS2053, UNLESS NOTED OTHERWISE.

SERVICES

NOTES

6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONEN SUBMAINS FROM THE EXISTING SITE SERVICE THE TWO TOWERS. THE AS FACILITIES FOR THE METERING THE TWO TOWERS IS TO BE PROVIDE

A QECM V4 DISPENSATION HAS BEEN THE TOWERS.

PROVIDE ALL EXISTING AND NEW MET IDENTIFYING THE LOCATIONS OF THE WAYS INCLUDING GATES / DOORS ET ENERGEX METERING LOCKS PRIOR TO ENERGEX IS DISPENSATION WITHIN AN ELECTRONIC COPY OF THE DISPER REQUESTED BY EMAIL.

EXTEND THE EXISTING UNDERGROUND OF THE NEW SUBMAINS FROM THE SI MSB TO SUPPLY THE NEW SUBMAINS.

PROVIDE THE NEW MDB WITH AN INTE 3 COMMUNAL SERVICES.

PROVIDE A COMMUNAL LIGHTING DIS DB-EP TO SUPPLY THE STAGE 3 LIGH AND DB-EP TO ACCOMMODATE THE STA COMPLETION.

PROVIDE AN ENERGY MONITORING SYS TIME-OF-USE ENERGY DATA TO A SII FOR THE FOLLOWING SUPPLIES: – DB–EL – DB–EP

7. NBN

- PROVIDE A NBN COMPLIANT CABLE PA MDB ROOM TO ALLOW THE NBN CO TO THE CABLE PATHWAY SYSTEM IS TO
- NEW UNDERGROUND LEADIN CONDU - BASEMENT 1 CABLE TRAYS.
- NBN COMMUNICATIONS RISER WITH - NBN COMPLIANT DROP CONDUITS

8. FIRE ALARM SYSTEM

PROVIDE EACH SOLE OCCUPANCY UNI MAINS POWERED INTERCONNECTED PHO

PROVIDE THE COMMUNAL NON SOLE OC DETECTION AND ALARM SYSTEM. DI SPRINKLERS. INTERFACE THE FIRE ALARM SYSTEM TO GENERATE AN ALAF DETECTORS ARE TO BE WIRED IN A

THE FIRE ALARM SYSTEM COMPONENT FOLLOWING EXTENT OF WORK:

- SOLE OCCUPANCY UNIT SMOKE AL - AS1670.1 SMOKE DETECTION AND
- FIRE INDICATOR PANEL (FDCIE).
- BUILDING 1 FRE INDICATOR MIMI
- BUILDING 2 FIRE INDICATOR MI ADDRESSABLE SMOKE DETECTORS.
- MANUAL CALL POINTS.
- ALERT AND EVACUATION SPEAKERS - VISUAL ALARM DEVICES.
- SPRINKLER INTERFACE.
- CABLING.
- TESTING AND COMMISSIONING. AS1670. 1 DESIGNERS STATEMENT.
- AS1670. 1 INSTALLERS STATEMENT

19 GOVERNOR TERRACE - STAGE 3

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BUILDING

ELECTRICAL DESIGN GROUP CONSULTANTS GOLD COAST

19 GOVERNOR TERRACE, MURARRIE, QUEENSLAND

IOTES		
POWER DISTRIBUTION		
IE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT I IBMAINS FROM THE EXISTING SITE MAIN SWITCHBOARD TO RVICE THE TWO TOWERS. THE MDB IS TO CONTAIN A G FACILITIES FOR THE METERING OF THE FUTURE STAGE IE TWO TOWERS IS TO BE PROVIDED WITH A METER PANEL	A NEW MAIN DISTRIBUTION BOARD (M CT METER OF THE COMMUNITY SERVICE 4 APARTMENTS. EACH ACCOMMODATION	IDB) TO IS AS WELL
QECM V4 DISPENSATION HAS BEEN OBTAINED FROM ENERGIE TOWERS.	EX TO ALLOW THE PROPOSED METERING	S WITHIN
COVIDE ALL EXISTING AND NEW METER POSITIONS WITH A ENTIFYING THE LOCATIONS OF THE OTHER METER POSITI YS INCLUDING GATES / DOORS ETC TO THE EXISTING AN HERGEX METERING LOCKS PRIOR TO ANY UNIT METERING E HERGEX IS DISPENSATION WITHIN EACH METER PANEL. I ELECTRONIC COPY OF THE DISPENSATION WILL BE PROV QUESTED BY EMAIL.	ONS ACROSS THE SITE. ENSURE ALL A ID NEW METER POSITIONS ARE PROVIDE BEING INSTALLED. PROVIDE A COPY	CCESS D WITH OF THE
TEND THE EXISTING UNDERGROUND CONDUIT SYSTEM TO T THE NEW SUBMAINS FROM THE SITE MSB. UTILISE T B TO SUPPLY THE NEW SUBMAINS.		
COVIDE THE NEW MOB WITH AN INTEGRAL COMMUNITY DIST	RIBUTION BOARD (DB-E) TO SUPPLY T	HE STAGE
OVIDE A COMMUNAL LIGHTING DISTRIBUTION BOARD DB-E B-EP TO SUPPLY THE STAGE 3 LIGHTING CIRCUITS AND F ID DB-EP TO ACCOMMODATE THE STAGE 3 COMMUNITY CITC MPLETION.	OWER CIRCUITS RESPECTIVELY. SIZ	ZE DB-EL
OVIDE AN ENERGY MONITORING SYSTEM AS PER J8.3 OF ME-OF-USE ENERGY DATA TO A SINGLE INTERFACE WHERE R THE FOLLOWING SUPPLIES: DB-EL DB-EP		
NBN		
OVIDE A NBN COMPLIANT CABLE PATHWAY SYSTEM FROM A B ROOM TO ALLOW THE NBN CO TO PROVIDE A FIBRE SER E CABLE PATHWAY SYSTEM IS TO INCLUDE: NEW UNDERGROUND LEADIN CONDUIT. BASEMENT 1 CABLE TRAYS. NBN COMMUNICATIONS RISER WITHIN EACH TOWER FROM NBN COMPLIANT DROP CONDUITS FROM THE RISER ON EA FIRE ALARM SYSTEM	RVICE TO A NTD WITHIN EACH APARTME BASEMENT 1 TO THE ROOF. ACH LEVEL TO THE NTD IN EACH APART AS3786-2014 SMOKE ALARM SYSTEM CC	MENT.
INS POWERED INTERCONNECTED PHOTOELECTRIC SMOKE AL OVIDE THE COMMUNAL NON SOLE OCCUPANCY UNIT SPACE TECTION AND ALARM SYSTEM. DETECTION IS NOT REQU RINKLERS. INTERFACE THE FIRE SPRINKLER SYSTEM TO ARM SYSTEM TO GENERATE AN ALARM UPON OPERATION OF TECTORS ARE TO BE WIRED IN A LOOP.	WITH AN ADDRESSABLE AS1670.1-2018 JIRED TO AREAS PROTECTED BY FIRE D THE AS1670.1-2018 SMOKE DETECTIO	N AND
E FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT IN DELOWING EXTENT OF WORK: SOLE OCCUPANCY UNIT SMOKE ALARMS. AS1670.1 SMOKE DETECTION AND ALARM SYSTEM. FIRE INDICATOR PANEL (FDCIE). BUILDING 1 FRE INDICATOR MIMIC PANEL (MPCIE). BUILDING 2 FIRE INDICATOR MIMIC PANEL (MPCIE). ADDRESSABLE SMOKE DETECTORS. MANUAL CALL POINTS. ALERT AND EVACUATION SPEAKERS AND HORNS. VISUAL ALARM DEVICES. SPRINKLER INTERFACE. CABLING.	ICLUDES, BUT IS NOT LIMITED TO THE	
TESTING AND COMMISSIONING. AS1670. 1 DESIGNERS STATEMENT. AS1670. 1 INSTALLERS STATEMENT.		
В	TENDER	03/09/2024
	BEND	DATE:

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