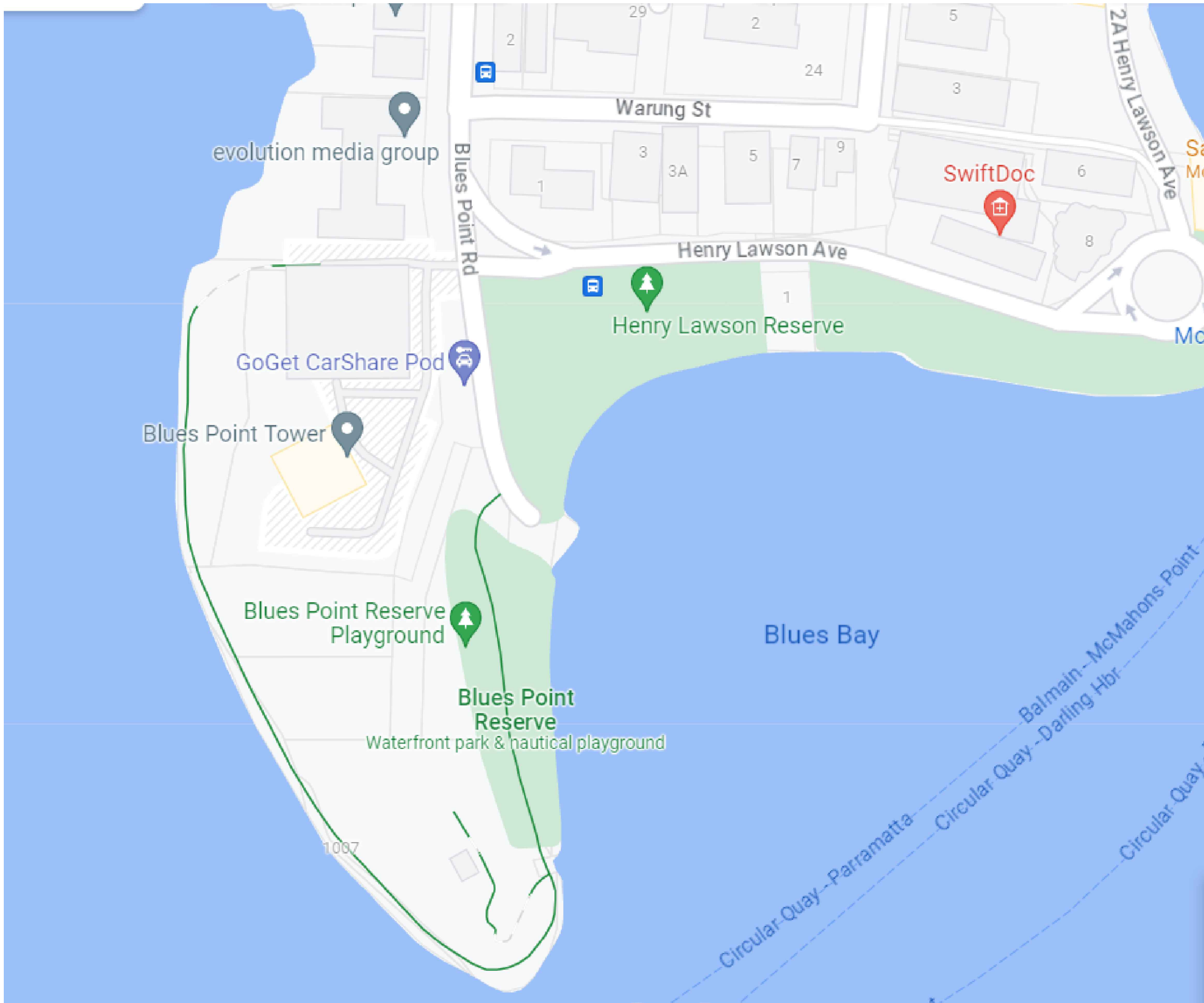


BLUES POINT RESERVE McMAHONS POINT PATHWAY LIGHTING



CONSULTATION ISSUE 11/5/23

SCOPE OF WORKS

1. SUPPLY AND INSTALL NEW STREET LIGHT POLES AS DOCUMENTED ON THE FOLLOWING DESIGN
2. REFER TO TYPICAL DRAWINGS OF CONDUITS LV PIT TO POLE AND TRENCHING DETAILS.
3. CONDUITS SHALL BE LAID ALONG THE ROUTE IN THE POSITIONS AND DEPTHS DOCUMENTED IN THE DRAWINGS. THE FINAL POSITION AND DEPTH OF CONDUITS MAY REQUIRE ADJUSTMENT ON SITE TO AVOID OBSTRUCTIONS, PROVIDED FINAL INSTALLATION COMPLIES WITH NORTH SYDNEY COUNCILS STANDARDS AND AUSTRALIA STANDARDS.
4. THE CABLE ROUTE SHOWN IS INDICATIVE ONLY. PRIOR TO CONSTRUCTION THE CONTRACTOR MUST INVESTIGATE AND CONFIRM THE MOST APPROPRIATE LOCATION, INSTALLATION AND DEPTH PROPOSED SERVICES BY UNDERTAKING GPR SURVEY AND POT HOLING PRIOR TO EXCAVATION.
5. CONDUITS SYSTEM SHALL BE CATEGORY "A" WIRING ENCLOSURE FOR AN UNDERGROUND WIRING SYSTEM TO AS/NZS 3000
6. ALL ELECTRICAL CONDUITS SHALL BE HEAVY DUTY PVC CONDUITS IN ACCORDANCE WITH AS 2053. DRAW WIRES SHALL BE INSTALLED IN ALL CONDUITS.
7. EACH STREET LIGHT POLE SHALL HAVE 1 x 80mm DIA ELECTRICAL CONDUIT ROUTED FROM THE ADJACENT PIT.
8. CONDUITS SHALL BE CONCRETE ENCASED WHERE THERE IS REDUCED COVER (SUBJECT TO STRUCTURAL ASSESSMENT). INSTALL BRASS CABLE MARKERS IN FINISHED CONCRETE SURFACE INDICATING ELECTRICAL CABLES AT SHALLOW DEPTH.
9. SUBMIT SHOP DRAWINGS FOR CLIENT REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORKS.
10. SUPPLY AND INSTALL INSTALLATION IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.
11. ALL SERVICES AND INSTALLATIONS MUST BE VERIFIED ON SITE. SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH OF ALL SERVICES WILL BE NEEDED PRIOR TO THE COMMENCEMENT OF WORK.
12. ALL WORKS MUST CONFORM TO AS/NZS 3000 AND AS 3008 INCLUDING LOCAL SUPPLY AUTHORITY REGULATIONS

STANDARDS, RULES, PERMITS, FEES

ALL MATERIALS, SUPPLIES AND ALL WORK INSTALLATIONS SHALL COMPLY WITH CURRENT CODES, STANDARDS, RULES AND REGULATIONS OF ALL STATUTORY AUTHORITIES INCLUDING, BUT NOT LIMITED TO:

- NATIONAL CONSTRUCTION CODE
- AS/NZS 1158 (LIGHTING STANDARDS)
- AS/NZS 3000 (WIRING RULES)
- AS/NZS 3008 (ELECTRICAL INSTALLATION / SELECTION OF CABLES)
- AS/NZS 61439 (SWITCHBOARDS)
- AS/NZS 3017 (ELECTRICAL INSTALLATIONS - TESTING GUIDELINES)
- NSW SERVICE AND INSTALLATION RULES

THE CONTRACTOR SHALL MAKE ALL APPLICATIONS AND PAY ALL FEES REQUIRED TO COMPLY WITH RELEVANT AUTHORITY REQUIREMENTS AND SELF CERTIFICATION COSTS FOR ELECTRICAL INSPECTION.

LICENSED ELECTRICAL CONTRACTOR

ALL WORKS SHALL BE UNDERTAKEN BY LICENSED ELECTRICAL CONTRACTORS, QUALIFIED AND EXPERIENCED IN THE TYPE OF WORK REQUIRED FOR THIS PROJECT. LICENCE SHALL SATISFY THE REQUIREMENTS OF THE STATE AUTHORITIES HAVE JURISDICTION OVER THE WORKS.

LABELING

THE LABELING OF ALL NEW ELECTRICAL EQUIPMENT SHALL ADHERE TO NORTH SYDNEY COUNCIL REQUIREMENTS. CONTRACTOR TO COORDINATE WITH COUNCIL PRIOR TO FABRICATION OF LABELS AND COMPLETION OF THE WORKS.

LV CABLE SELECTION

SUPPLY, INSTALL AND CONNECT ALL NEW POWER , CONTROL CABLING ETC, NECESSARY TO COMPLETE THE INSTALLATION. ALL POWER CABLES SHALL BE MULTI STRANDED COPPER AND SHALL BE A MIN 2.5mm2 CSA OR AS SPECIFIED IN THE DESIGN

DURABILITY REQUIREMENTS

FOR NEW HOT DIPPED GALVANIZED ELEMENTS, IF COATINGS ARE DAMAGED DUE TO HANDLING, INSTALLATION OR DURING REMOVAL, REPAIRS MUST BE UNDERTAKEN USING ONE OF THE FOLLOWING METHODS

1. ORGANIC ZINC RICH EPOXY PAINT COMPLYING WITH AS 3750.9. THIS MUST BE APPLIED IN TWO COATS. EACH COAT MUST HAVE A MINIMUM DRY FILM THICKNESS OF 50mm.
2. INORGANIC ZINC SILICATE PAINT COMPLYING WITH AS 3750.15. THIS MUST HAVE A MINIMUM DRY FILM THICKNESS OF 100mm.
3. ZINC METAL SPRAY TO ISO 2063 OR AS2312.
4. ZINC ALLOY SOLDER STICK.

ALL THE ABOVE TREATMENTS MUST BE APPLIED AS PER THE REQUIREMENTS WITHIN AUSTRALIAN STANDARD AS 4680 AND MANUFACTURERS REQUIREMENTS AND MUST INCLUDE ANY NECESSARY PRE-TREATMENT TO ENSURE GOOD ADHESION.

ELECTRICAL INSTALLATION

RESPONSIBILITIES:
USE ONLY PERSONS APPROPRIATELY EXPERIENCED AND QUALIFIED TO UNDERTAKE THE ELECTRICAL INSTALLATION WORKS ON THE SYSTEMS DOCUMENTED.
PERFORMANCE:
CARRY OUT VERIFICATION TEST AND MEASUREMENTS TO SHOW COMPLIANCE WITH SPECIFICATIONS.

INSTALLATION

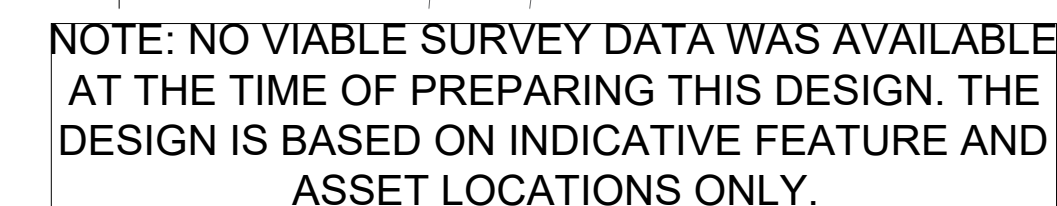
LIGHTING
GENERAL: INSTALL NEW LIGHTING CIRCUITS TO SUIT FOOTPATHS. PROVIDE NEW LIGHTING AS DOCUMENTED IN THE DRAWINGS
EQUIPMENT: PROVIDE ONLY PROPRIETARY LUMINAIRES.
LIGHTING CONTROL: EACH LUMINAIRE TO BE FITTED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE.

CONDUITS
STANDARDS: AS/NZS2053 SERIES
TYPE: ORANGE HEAVY DUTY RIGID
FITTINGS: PROVIDE ASSOCIATED FITTINGS OF THE SAME TYPE AND MATERIAL AS THE CONDUIT.
JOINTS: CEMENTED OR SNAP ON JOINTS.
DRAW WIRE: PROVIDE 5mm2 POLYPROPYLENE DRAW CORDS IN CONDUITS FOR FUTURE CABLE INSTALLATIONS

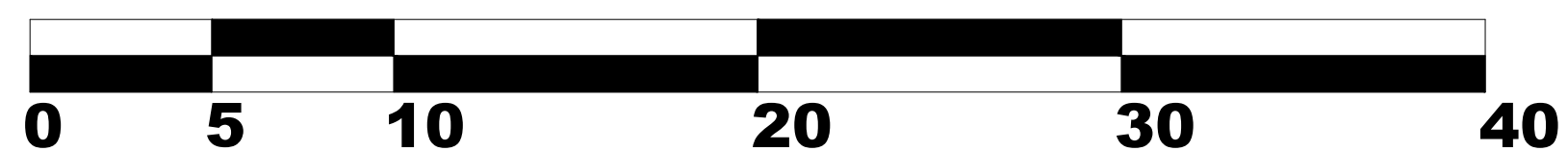
CABLE PITS
PROVIDE PROPRIETARY CONCRETE OR POLYMER PITS AS DOCUMENTED.
MANUFACTURER: MASCOT ENGINEERING OR APPROVED EQUIVALENT

PIT COVERS
PROVIDE PIT COVERS TO SUIT EXTERNAL LOADS. FIT FLUSH WITH THE TOP OF PIT.
STANDARD: TO AS 3996
WEIGHT: < 40kg FOR ANY SECTION OF COVER.

DRAINAGE
PROVIDE DRAINAGE FROM THE BOTTOM OF THE CABLE PITS, EITHER TO ABSORPTION TRENCHES FILLED WITH RUBBLE OR TO THE STORM WATER DRAINAGE SYSTEM. ABSORPTION TRENCHES SHOULD BE A MINIMUM SIZE OF 300mm x 300mm x 300mm.



SCALE BAR 1:200



2 x 80mm dia
electrical conduits

2 x 80mm dia
electrical conduits

2 x 80mm dia
electrical conduits

2 x 80mm dia
electrical conduits

BLUES POINT RESERVE

Ex conduits

HENRY ST

Ex L-10

Existing Main
Switch Board
MSB-01

Ex conduits

BLUES POINT RD

Ex I

Ex L-08

Ex L-07

Ex L-06 ○

Ex L-05 ○

Ex L-04 ○

Ex L-02

Ex conduits
Ex L-04

Ex L-01

Pathway

L-18

Indicative Pathway

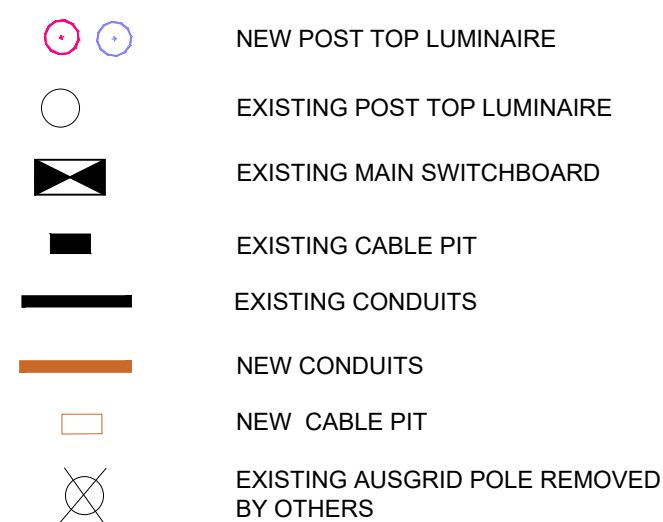
L-1

2 x 80mm dia
electrical conduits

L-2

[illegible]

LEGEND



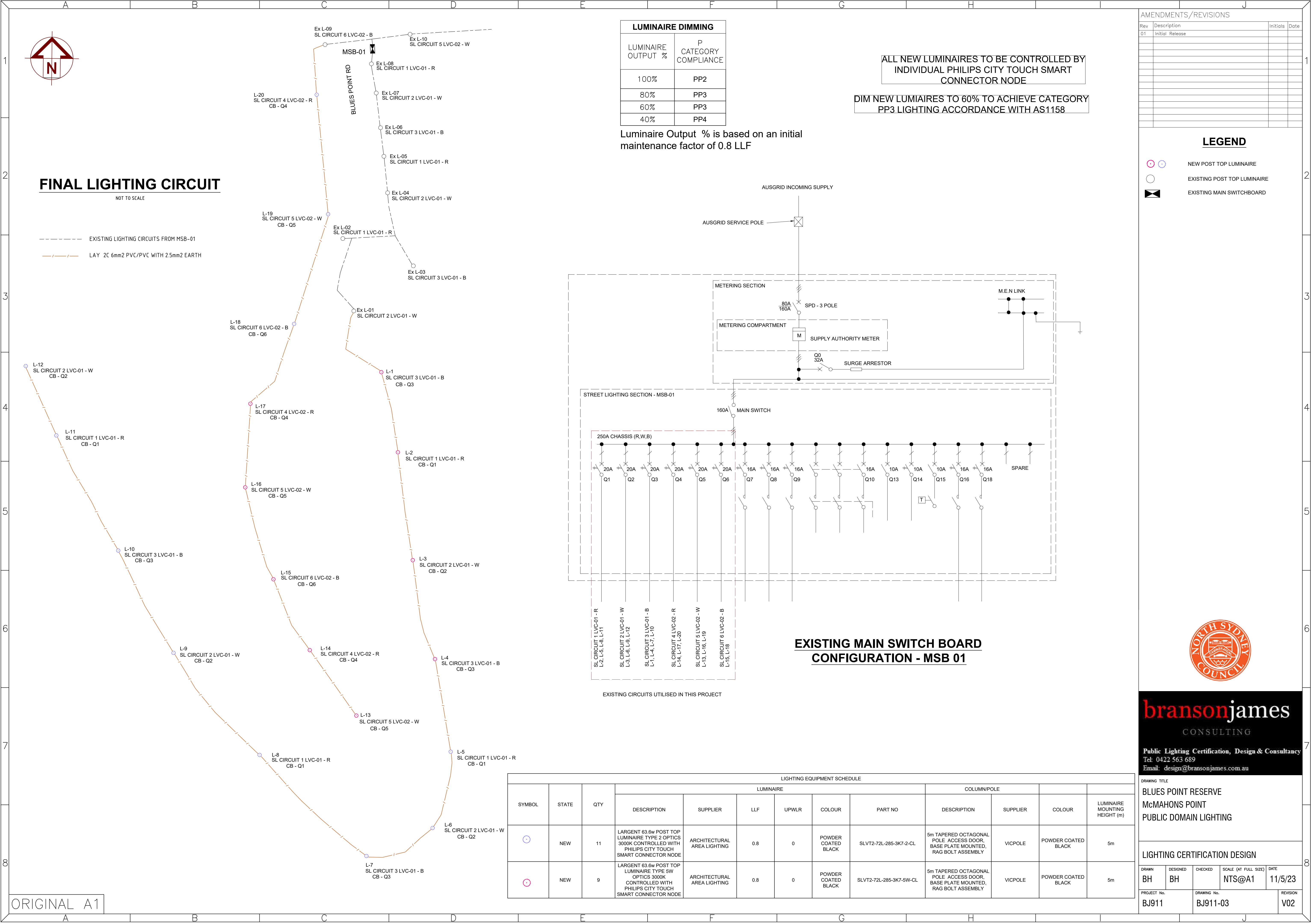
bransonjames
CONSULTING

Public Lighting Certification, Design & Consultancy
Tel: 0422 563 689
Email: design@bransonjames.com.au

BLUES POINT RESERVE
McMAHONS POINT
PUBLIC DOMAIN LIGHTING

LIGHTING CERTIFICATION DESIGN

DRAWN BH	DESIGNED BH	CHECKED	SCALE (AT FULL SIZE) 1:200@A1	DATE 11/5/23
PROJECT No. BJ911		DRAWING No. BJ911-01		REVISION V02



This figure is a technical drawing titled "FINAL LIGHTING CIRCUIT" and "EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01". It includes a north arrow, a legend, a luminaire dimming table, and a lighting equipment schedule.

LUMINAIRE DIMMING

LUMINAIRE OUTPUT %	P CATEGORY COMPLIANCE
100%	PP2
80%	PP3
60%	PP3
40%	PP4

Luminaire Output % is based on an initial maintenance factor of 0.8 LLF

ALL NEW LUMINAIRES TO BE CONTROLLED BY INDIVIDUAL PHILIPS CITY TOUCH SMART CONNECTOR NODE

DIM NEW LUMIAIRES TO 60% TO ACHIEVE CATEGORY PP3 LIGHTING ACCORDANCE WITH AS1158

LEGEND

- NEW POST TOP LUMINAIRE
- EXISTING POST TOP LUMINAIRE
- EXISTING MAIN SWITCHBOARD

EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01

The diagram shows the existing main switch board configuration for MSB 01. It includes a metering section with a supply authority meter, surge arrester, and SPD-3 pole. The street lighting section features a 250A chassis (R,W,B) with 18 circuits (Q1-Q18) and a spare. Existing circuits utilized in this project are listed below:

Sym	State	Qty	Description	Supplier	LLF	UPWLR	Colour	Part No	Description	Supplier	Colour	Luminaire Mounting Height (m)
(Blue Circle)	NEW	11	LARGENT 63.6w POST TOP LUMINAIRE TYPE 2 OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-2-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m
(Pink Circle)	NEW	9	LARGENT 63.6w POST TOP LUMINAIRE TYPE 5W OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-5W-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m

This figure is a technical drawing titled "FINAL LIGHTING CIRCUIT" and "EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01". It includes a north arrow, a legend, a luminaire dimming table, and various circuit diagrams.

LUMINAIRE DIMMING

LUMINAIRE OUTPUT %	P CATEGORY COMPLIANCE
100%	PP2
80%	PP3
60%	PP3
40%	PP4

Luminaire Output % is based on an initial maintenance factor of 0.8 LLF

ALL NEW LUMINAIRES TO BE CONTROLLED BY INDIVIDUAL PHILIPS CITY TOUCH SMART CONNECTOR NODE

DIM NEW LUMIAIRES TO 60% TO ACHIEVE CATEGORY PP3 LIGHTING ACCORDANCE WITH AS1158

LEGEND

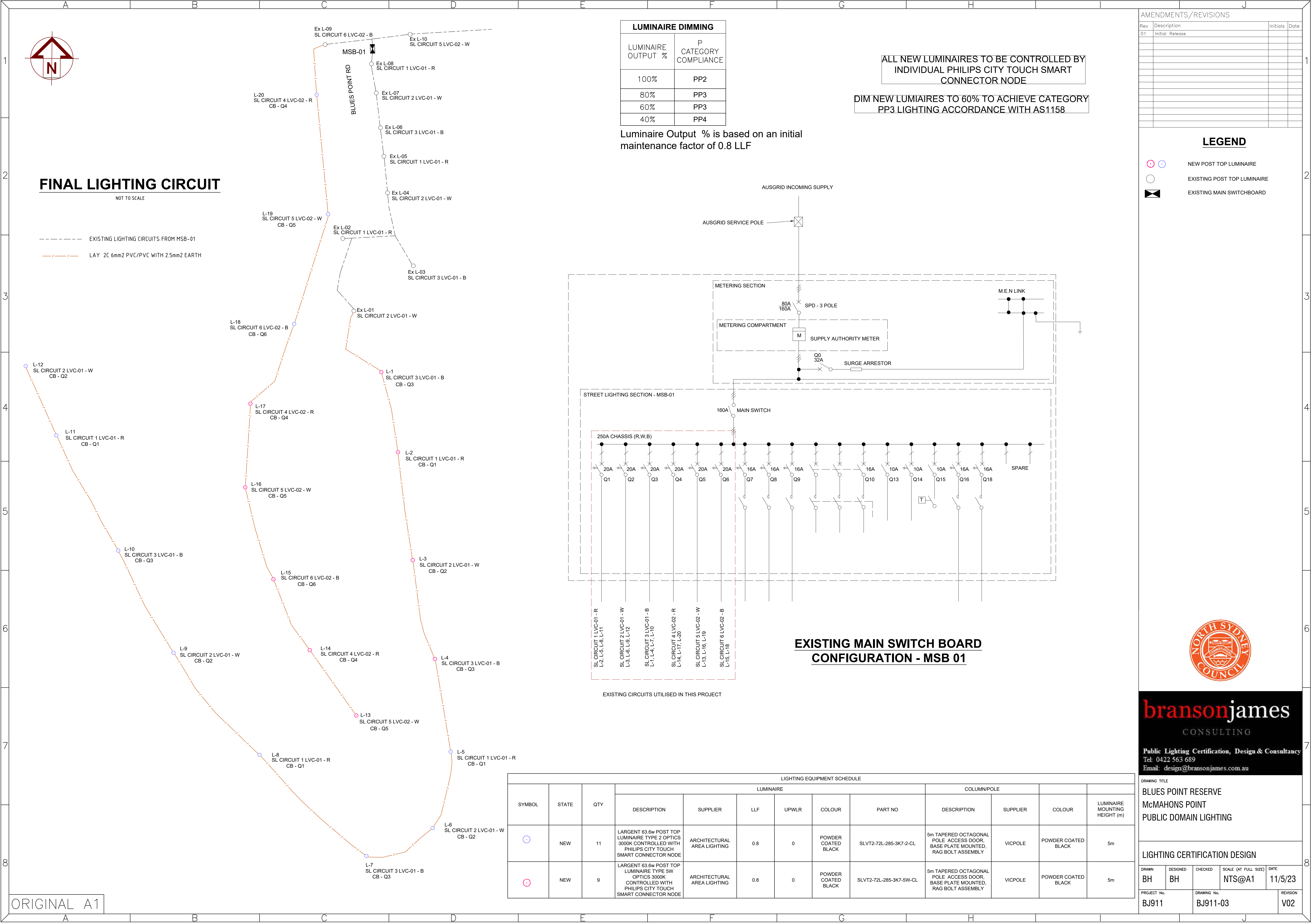
- NEW POST TOP LUMINAIRE
- EXISTING POST TOP LUMINAIRE
- EXISTING MAIN SWITCHBOARD

EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01

The diagram shows the existing main switch board configuration for MSB 01. It includes a metering section with a supply authority meter, surge arrester, and SPD-3 pole. The street lighting section features a 250A chassis (R,W,B) with multiple circuits (Q1-Q18) and a spare. The metering section also includes a main switch and a surge arrester.

LIGHTING EQUIPMENT SCHEDULE

SYMBOL	STATE	QTY	LUMINAIRE						COLUMN/POLE			
			DESCRIPTION	SUPPLIER	LLF	UPWLR	COLOUR	PART NO	DESCRIPTION	SUPPLIER	COLOUR	LUMINAIRE MOUNTING HEIGHT (m)
(Symbol)	NEW	11	LARGENT 63.6w POST TOP LUMINAIRE TYPE 2 OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-2-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m
(Symbol)	NEW	9	LARGENT 63.6w POST TOP LUMINAIRE TYPE 5W OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-5W-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m



This figure presents a comprehensive lighting design for Blues Point Reserve, featuring a final lighting circuit map, a detailed existing main switchboard configuration, and associated technical specifications.

FINAL LIGHTING CIRCUIT

NOT TO SCALE

EXISTING LIGHTING CIRCUITS FROM MSB-01
LAY 2C 6mm² PVC/PVC WITH 2.5mm² EARTH

The circuit map shows various luminaire locations (L-1 to L-20) and their connections to existing circuits (SL CIRCUIT 1 to SL CIRCUIT 6). A north arrow indicates orientation.

LUMINAIRE DIMMING

LUMINAIRE OUTPUT %	P CATEGORY COMPLIANCE
100%	PP2
80%	PP3
60%	PP3
40%	PP4

Luminaire Output % is based on an initial maintenance factor of 0.8 LLF

ALL NEW LUMINAIRES TO BE CONTROLLED BY INDIVIDUAL PHILIPS CITY TOUCH SMART CONNECTOR NODE

DIM NEW LUMINAIRES TO 60% TO ACHIEVE CATEGORY PP3 LIGHTING ACCORDANCE WITH AS1158

EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01

AUSGRID INCOMING SUPPLY
AUSGRID SERVICE POLE

METERING SECTION
METERING COMPARTMENT
SUPPLY AUTHORITY METER
SURGE ARRESTOR

STREET LIGHTING SECTION - MSB-01
MAIN SWITCH

250A CHASSIS (R,W,B)

EXISTING CIRCUITS UTILISED IN THIS PROJECT

LIGHTING EQUIPMENT SCHEDULE

SYMBOL	STATE	QTY	LUMINAIRE						COLUMN/POLE		LUMINAIRE MOUNTING HEIGHT (m)	
			DESCRIPTION	SUPPLIER	LLF	UPWLR	COLOUR	PART NO	DESCRIPTION	SUPPLIER		COLOUR
(Blue Circle)	NEW	11	LARGENT 63.6w POST TOP LUMINAIRE TYPE 2 OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-2-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m
(Pink Circle)	NEW	9	LARGENT 63.6w POST TOP LUMINAIRE TYPE 5W OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-5W-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m

LEGEND

- NEW POST TOP LUMINAIRE
- EXISTING POST TOP LUMINAIRE
- EXISTING MAIN SWITCHBOARD

ORIGINAL A1

[illegible]

This figure presents a detailed lighting design for Blues Point Reserve, featuring a final lighting circuit map, an existing main switchboard configuration, and associated technical specifications.

FINAL LIGHTING CIRCUIT

The circuit map shows the layout of new and existing lighting circuits originating from MSB-01. The legend indicates:

- NEW POST TOP LUMINAIRE (Pink circle)
- EXISTING POST TOP LUMINAIRE (Blue circle)
- EXISTING MAIN SWITCHBOARD (Black square)

Key components include:

- AUSGRID INCOMING SUPPLY
- METERING SECTION (80A, 160A SPD - 3 POLE, SUPPLY AUTHORITY METER, SURGE ARRESTOR)
- STREET LIGHTING SECTION - MSB-01 (MAIN SWITCH, 160A)
- EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01 (250A CHASSIS (R,W,B), 20A, 16A, 10A breakers, SPARE)

LUMINAIRE DIMMING

LUMINAIRE OUTPUT %	P CATEGORY COMPLIANCE
100%	PP2
80%	PP3
60%	PP3
40%	PP4

Luminaire Output % is based on an initial maintenance factor of 0.8 LLF

EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01

The diagram illustrates the internal wiring and breaker ratings (20A, 16A, 10A) for the existing switchboard, showing connections to various lighting circuits (e.g., SL CIRCUIT 1 LVC-01 - R, SL CIRCUIT 2 LVC-01 - W).

LIGHTING EQUIPMENT SCHEDULE

SYMBOL	STATE	QTY	LUMINAIRE						COLUMN/POLE			
			DESCRIPTION	SUPPLIER	LLF	UPWLR	COLOUR	PART NO	DESCRIPTION	SUPPLIER	COLOUR	LUMINAIRE MOUNTING HEIGHT (m)
(Blue Circle)	NEW	11	LARGENT 63.6w POST TOP LUMINAIRE TYPE 2 OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-2-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m
(Pink Circle)	NEW	9	LARGENT 63.6w POST TOP LUMINAIRE TYPE 5W OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-5W-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m

AMENDMENTS / REVISIONS

Rev	Description	Initials	Date
01	Initial Release		

LEGEND

- NEW POST TOP LUMINAIRE
- EXISTING POST TOP LUMINAIRE
- EXISTING MAIN SWITCHBOARD

ORIGINAL A1

This figure is a technical drawing titled "FINAL LIGHTING CIRCUIT" and "EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01". It includes a north arrow, a legend, a luminaire dimming table, and a lighting equipment schedule.

LUMINAIRE DIMMING

LUMINAIRE OUTPUT %	P CATEGORY COMPLIANCE
100%	PP2
80%	PP3
60%	PP3
40%	PP4

Luminaire Output % is based on an initial maintenance factor of 0.8 LLF

ALL NEW LUMINAIRES TO BE CONTROLLED BY INDIVIDUAL PHILIPS CITY TOUCH SMART CONNECTOR NODE

DIM NEW LUMIAIRES TO 60% TO ACHIEVE CATEGORY PP3 LIGHTING ACCORDANCE WITH AS1158

LEGEND

- NEW POST TOP LUMINAIRE
- EXISTING POST TOP LUMINAIRE
- EXISTING MAIN SWITCHBOARD

EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01

The diagram shows the existing main switch board configuration for MSB 01. It includes a metering section with a supply authority meter, surge arrester, and SPD-3 pole. The street lighting section features a 250A chassis (R,W,B) with 18 circuits (Q1-Q18) and a spare circuit. The circuits are connected to various luminaires (L-1 to L-20) via SL circuits (SL CIRCUIT 1 to SL CIRCUIT 6).

LIGHTING EQUIPMENT SCHEDULE

SYMBOL	STATE	QTY	LUMINAIRE						COLUMN/POLE			
			DESCRIPTION	SUPPLIER	LLF	UPWLR	COLOUR	PART NO	DESCRIPTION	SUPPLIER	COLOUR	LUMINAIRE MOUNTING HEIGHT (m)
(Symbol)	NEW	11	LARGENT 63.6w POST TOP LUMINAIRE TYPE 2 OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-2-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m
(Symbol)	NEW	9	LARGENT 63.6w POST TOP LUMINAIRE TYPE 5W OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-5W-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m

- This figure presents a detailed lighting design for Blues Point Reserve, featuring a final lighting circuit map, an existing main switch board configuration, and associated technical specifications.

The **FINAL LIGHTING CIRCUIT** map shows the layout of new and existing circuits across the site. New circuits are highlighted in orange, while existing ones are shown as dashed grey lines. The map includes numerous luminaire locations labeled with codes like L-1 through L-20 and Ex L-1 through Ex L-10, indicating specific circuit assignments and mounting heights. A north arrow is provided for orientation.

The **EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01** diagram illustrates the electrical infrastructure. It details the incoming supply from the Ausgrid, passing through a metering section with a supply authority meter and surge arrester, before reaching a main switch and a distribution busbar. Below the busbar, individual circuit breakers (Q1-Q18) are shown, each protecting a specific lighting circuit or spare capacity.

A **LUMINAIRE DIMMING** table specifies the required output percentage for different luminaire categories to achieve PP3 compliance:

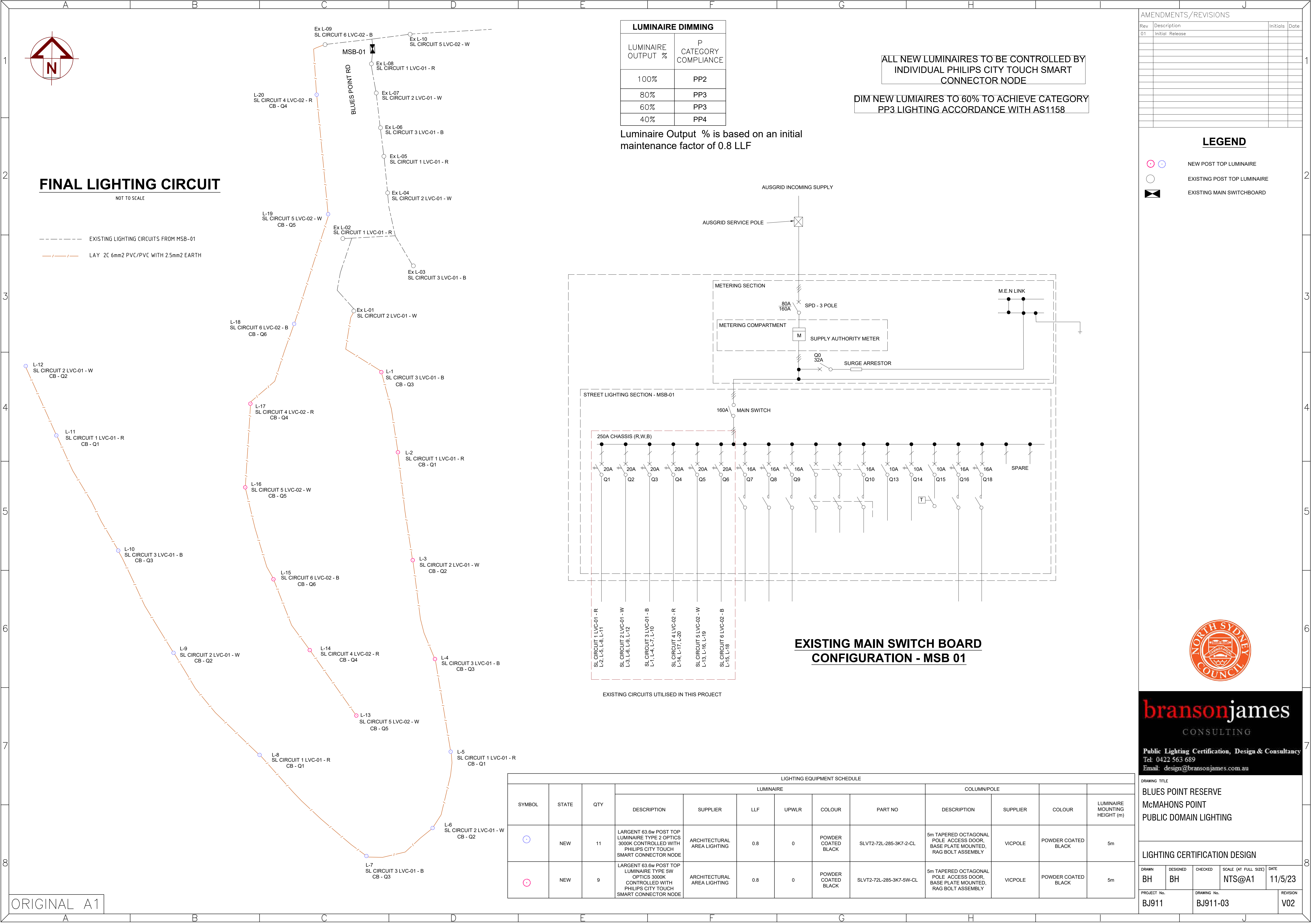
Luminaire Output %	P Category Compliance
100%	PP2
80%	PP3
60%	PP3
40%	PP4

Additional notes state: "ALL NEW LUMINAIRES TO BE CONTROLLED BY INDIVIDUAL PHILIPS CITY TOUCH SMART CONNECTOR NODE" and "DIM NEW LUMINAIRES TO 60% TO ACHIEVE CATEGORY PP3 LIGHTING ACCORDANCE WITH AS1158".

The **LIGHTING EQUIPMENT SCHEDULE** provides a summary of the proposed luminaires:

SYMBOL	STATE	QTY	LUMINAIRE						COLUMN/POLE		COLOUR	LUMINAIRE MOUNTING HEIGHT (m)
			DESCRIPTION	SUPPLIER	LLF	UPWLR	PART NO	DESCRIPTION	SUPPLIER			
(Blue circle symbol)	NEW	11	LARGENT 63.6w POST TOP LUMINAIRE TYPE 2 OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-2-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m
(Pink circle symbol)	NEW	9	LARGENT 63.6w POST TOP LUMINAIRE TYPE 5W OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-5W-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m

The drawing is titled "PUBLIC LIGHTING CERTIFICATION DESIGN" and is prepared by Branson James Consulting. It includes project details such as Project No. BJ911, Drawing No. BJ911-03, and Revision V02. The date of issue is 11/5/23.

[illegible]

This figure is a technical drawing titled "FINAL LIGHTING CIRCUIT" and "EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01". It includes a north arrow, a legend, a luminaire dimming table, and a lighting equipment schedule.

LUMINAIRE DIMMING

LUMINAIRE OUTPUT %	P CATEGORY COMPLIANCE
100%	PP2
80%	PP3
60%	PP3
40%	PP4

Luminaire Output % is based on an initial maintenance factor of 0.8 LLF

ALL NEW LUMINAIRES TO BE CONTROLLED BY INDIVIDUAL PHILIPS CITY TOUCH SMART CONNECTOR NODE

DIM NEW LUMIAIRES TO 60% TO ACHIEVE CATEGORY PP3 LIGHTING ACCORDANCE WITH AS1158

LEGEND

- NEW POST TOP LUMINAIRE
- EXISTING POST TOP LUMINAIRE
- EXISTING MAIN SWITCHBOARD

EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01

The diagram shows the existing main switch board configuration for MSB 01. It includes a metering section with a supply authority meter, surge arrester, and SPD-3 pole. The street lighting section features a 250A chassis (R,W,B) with 18 circuits (Q1-Q18) and a spare. The circuits are connected to various luminaires as detailed in the schedule below.

LIGHTING EQUIPMENT SCHEDULE

SYMBOL	STATE	QTY	LUMINAIRE						COLUMN/POLE			
			DESCRIPTION	SUPPLIER	LLF	UPWLR	COLOUR	PART NO	DESCRIPTION	SUPPLIER	COLOUR	LUMINAIRE MOUNTING HEIGHT (m)
(Symbol)	NEW	11	LARGENT 63.6w POST TOP LUMINAIRE TYPE 2 OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-2-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m
(Symbol)	NEW	9	LARGENT 63.6w POST TOP LUMINAIRE TYPE 5W OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-5W-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m

This figure presents a detailed lighting design for Blues Point Reserve, featuring a final lighting circuit map, a luminaire dimming schedule, an existing main switch board configuration, and a lighting equipment schedule.

FINAL LIGHTING CIRCUIT

NOT TO SCALE

EXISTING LIGHTING CIRCUITS FROM MSB-01
LAY 2C 6mm² PVC/PVC WITH 2.5mm² EARTH

The circuit map shows various luminaire locations (L-1 to L-20) and their connections to existing circuits (SL CIRCUIT 1 to SL CIRCUIT 6). A north arrow is provided for orientation.

LUMINAIRE DIMMING

LUMINAIRE OUTPUT %	P CATEGORY COMPLIANCE
100%	PP2
80%	PP3
60%	PP3
40%	PP4

Luminaire Output % is based on an initial maintenance factor of 0.8 LLF

ALL NEW LUMINAIRES TO BE CONTROLLED BY INDIVIDUAL PHILIPS CITY TOUCH SMART CONNECTOR NODE

DIM NEW LUMINAIRES TO 60% TO ACHIEVE CATEGORY PP3 LIGHTING ACCORDANCE WITH AS1158

EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01

AUSGRID INCOMING SUPPLY
AUSGRID SERVICE POLE

METERING SECTION
METERING COMPARTMENT
SUPPLY AUTHORITY METER
SURGE ARRESTOR

STREET LIGHTING SECTION - MSB-01
MAIN SWITCH

250A CHASSIS (R,W,B)

EXISTING CIRCUITS UTILISED IN THIS PROJECT

LIGHTING EQUIPMENT SCHEDULE

SYMBOL	STATE	QTY	LUMINAIRE						COLUMN/POLE			
			DESCRIPTION	SUPPLIER	LLF	UPWLR	COLOUR	PART NO	DESCRIPTION	SUPPLIER	COLOUR	LUMINAIRE MOUNTING HEIGHT (m)
(Symbol)	NEW	11	LARGENT 63.6w POST TOP LUMINAIRE TYPE 2 OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-2-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m
(Symbol)	NEW	9	LARGENT 63.6w POST TOP LUMINAIRE TYPE 5W OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-5W-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m

LEGEND

- NEW POST TOP LUMINAIRE
- EXISTING POST TOP LUMINAIRE
- EXISTING MAIN SWITCHBOARD

ORIGINAL A1

[illegible]

This figure is a technical drawing titled "FINAL LIGHTING CIRCUIT" and "EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01". It includes a north arrow, a legend, a luminaire dimming table, and a lighting equipment schedule.

LUMINAIRE DIMMING

LUMINAIRE OUTPUT %	P CATEGORY COMPLIANCE
100%	PP2
80%	PP3
60%	PP3
40%	PP4

Luminaire Output % is based on an initial maintenance factor of 0.8 LLF

ALL NEW LUMINAIRES TO BE CONTROLLED BY INDIVIDUAL PHILIPS CITY TOUCH SMART CONNECTOR NODE

DIM NEW LUMIAIRES TO 60% TO ACHIEVE CATEGORY PP3 LIGHTING ACCORDANCE WITH AS1158

LEGEND

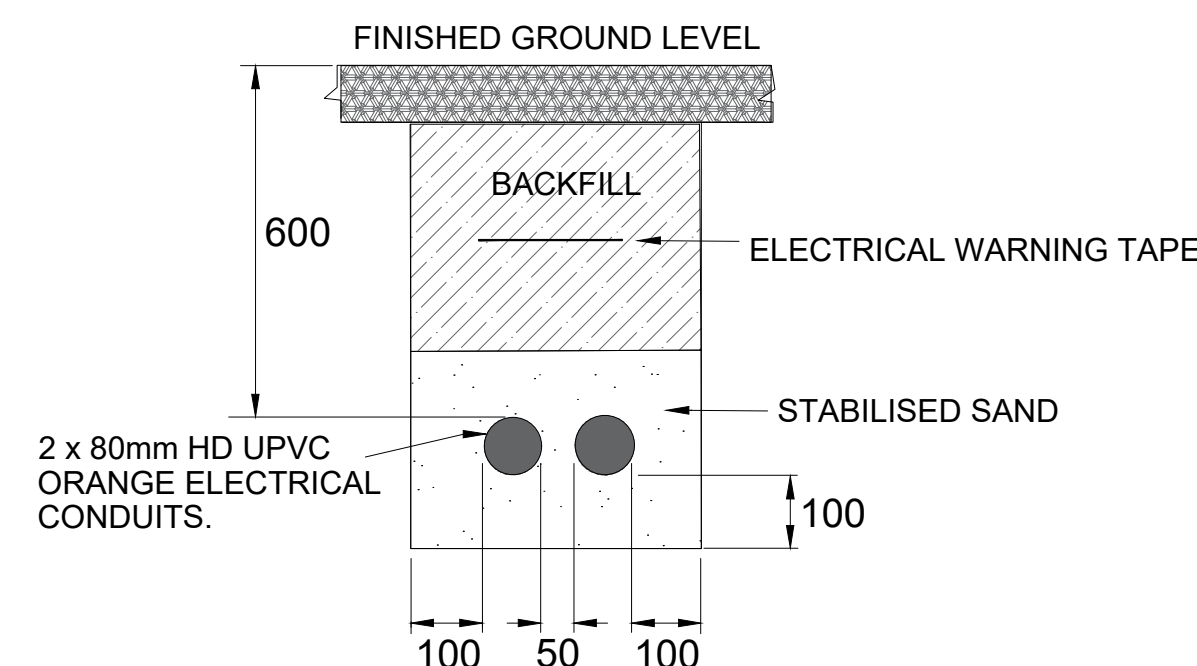
- NEW POST TOP LUMINAIRE
- EXISTING POST TOP LUMINAIRE
- EXISTING MAIN SWITCHBOARD

EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01

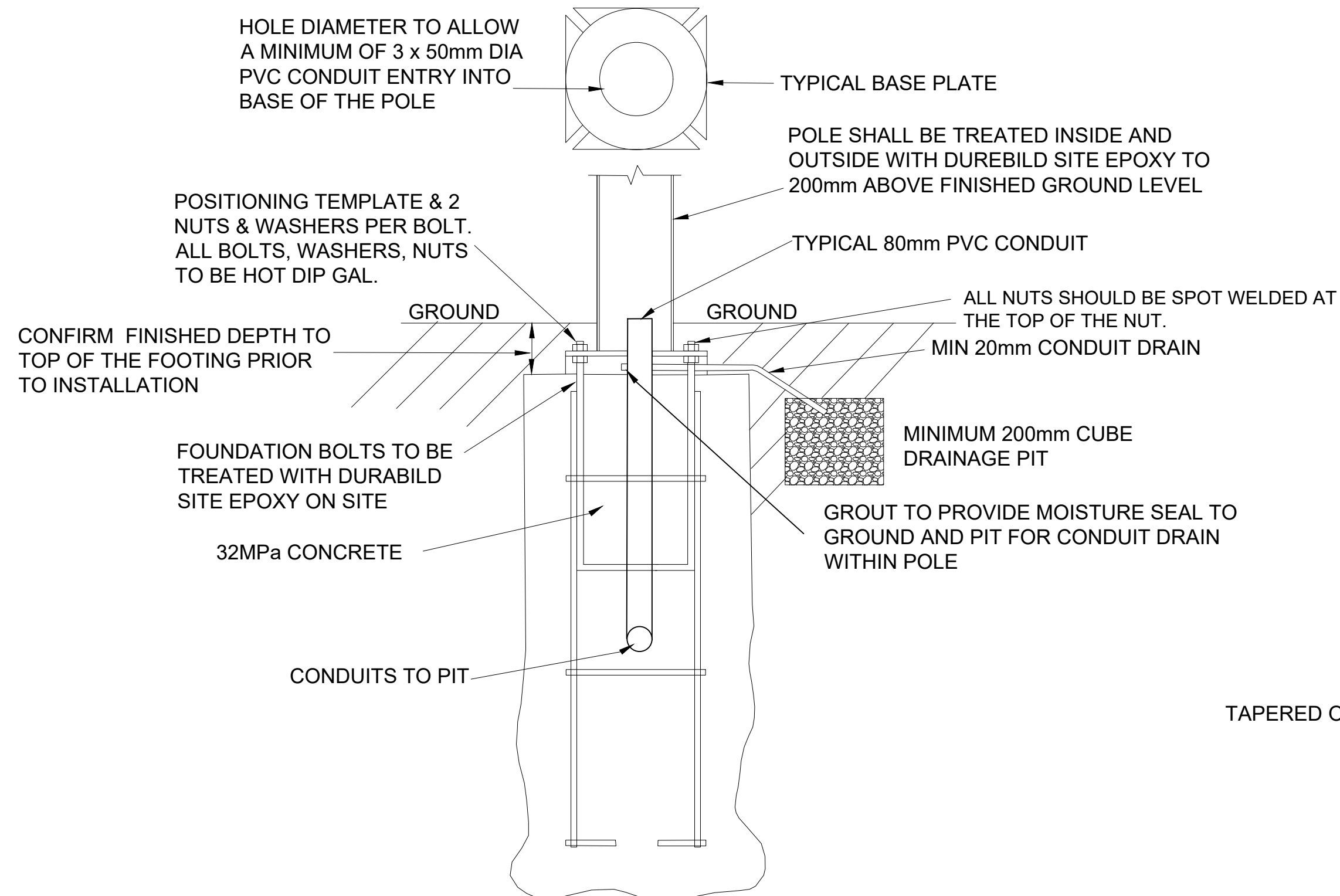
The diagram shows the existing main switch board configuration for MSB 01. It includes a metering section with a supply authority meter, surge arrester, and SPD-3 pole. The street lighting section features a 250A chassis (R,W,B) with 18 circuits (Q1-Q18) and a spare. The circuits are connected to various luminaires as detailed in the schedule below.

LIGHTING EQUIPMENT SCHEDULE

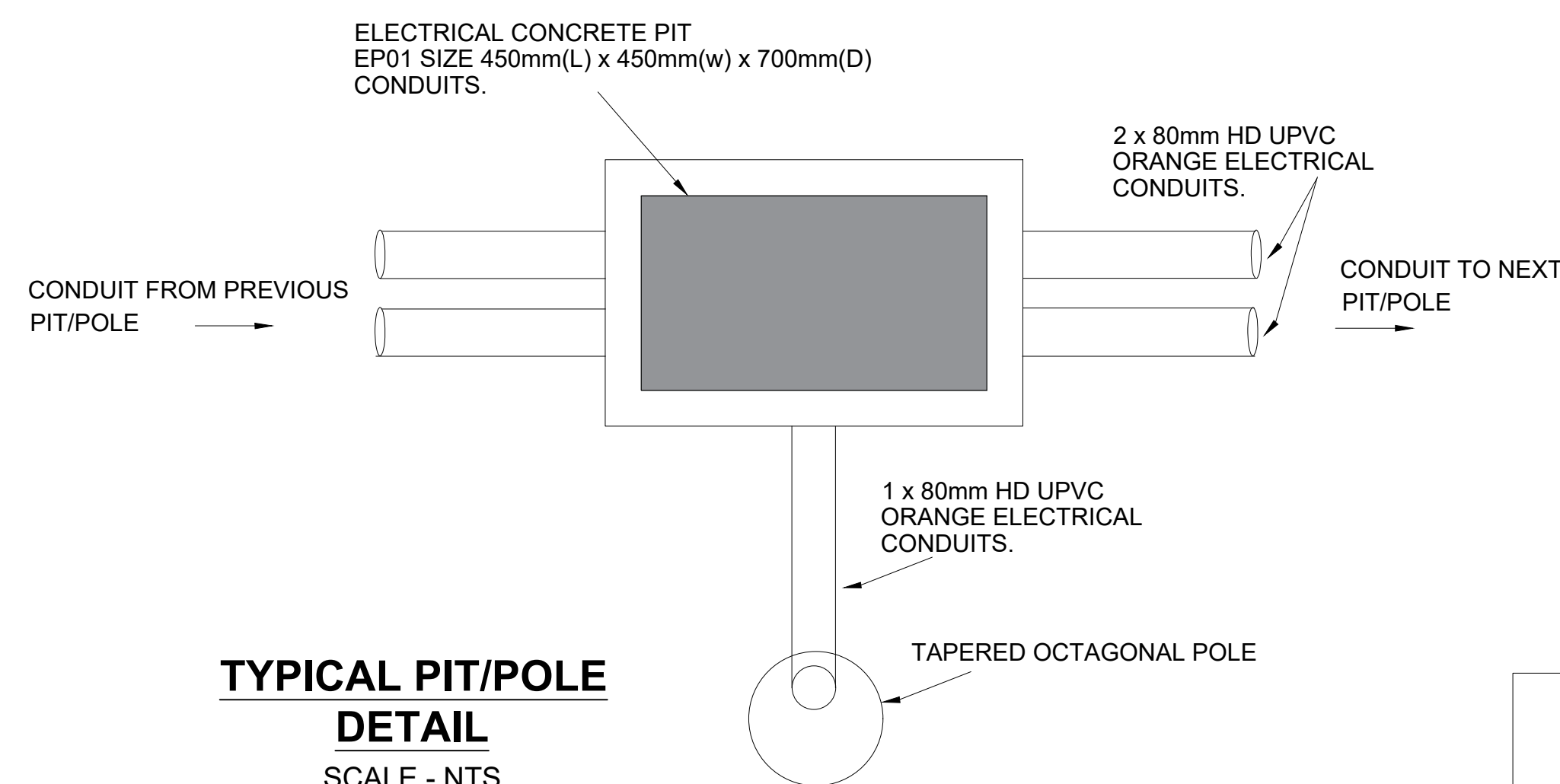
SYMBOL	STATE	QTY	LUMINAIRE						COLUMN/POLE			
			DESCRIPTION	SUPPLIER	LLF	UPWLR	COLOUR	PART NO	DESCRIPTION	SUPPLIER	COLOUR	LUMINAIRE MOUNTING HEIGHT (m)
(Symbol)	NEW	11	LARGENT 63.6w POST TOP LUMINAIRE TYPE 2 OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-2-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m
(Symbol)	NEW	9	LARGENT 63.6w POST TOP LUMINAIRE TYPE 5W OPTICS 3000K CONTROLLED WITH PHILIPS CITY TOUCH SMART CONNECTOR NODE	ARCHITECTURAL AREA LIGHTING	0.8	0	POWDER COATED BLACK	SLVT2-72L-285-3K7-5W-CL	5m TAPERED OCTAGONAL POLE ACCESS DOOR, BASE PLATE MOUNTED, RAG BOLT ASSEMBLY	VICPOLE	POWDER COATED BLACK	5m



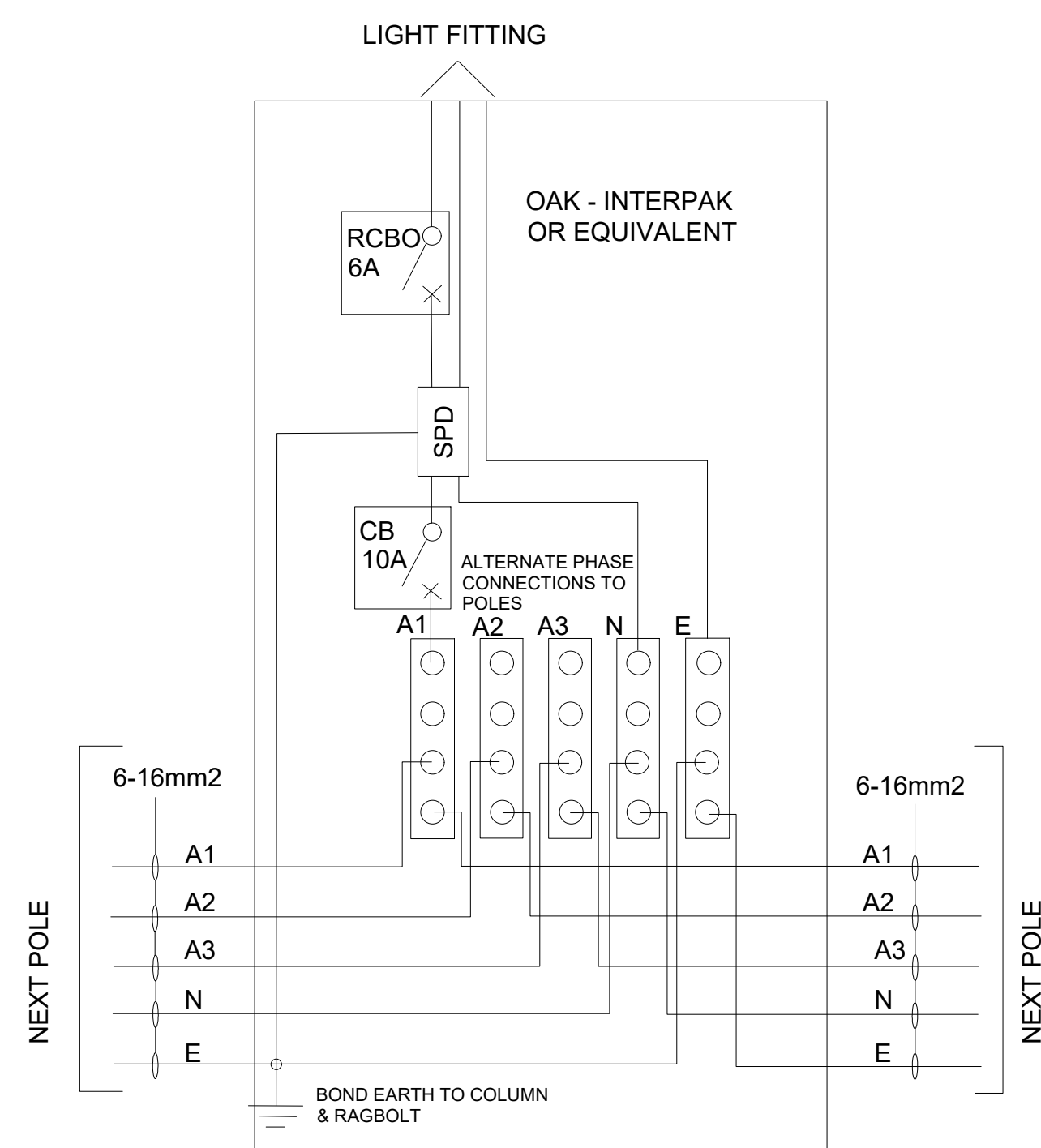
SCALE - NTS



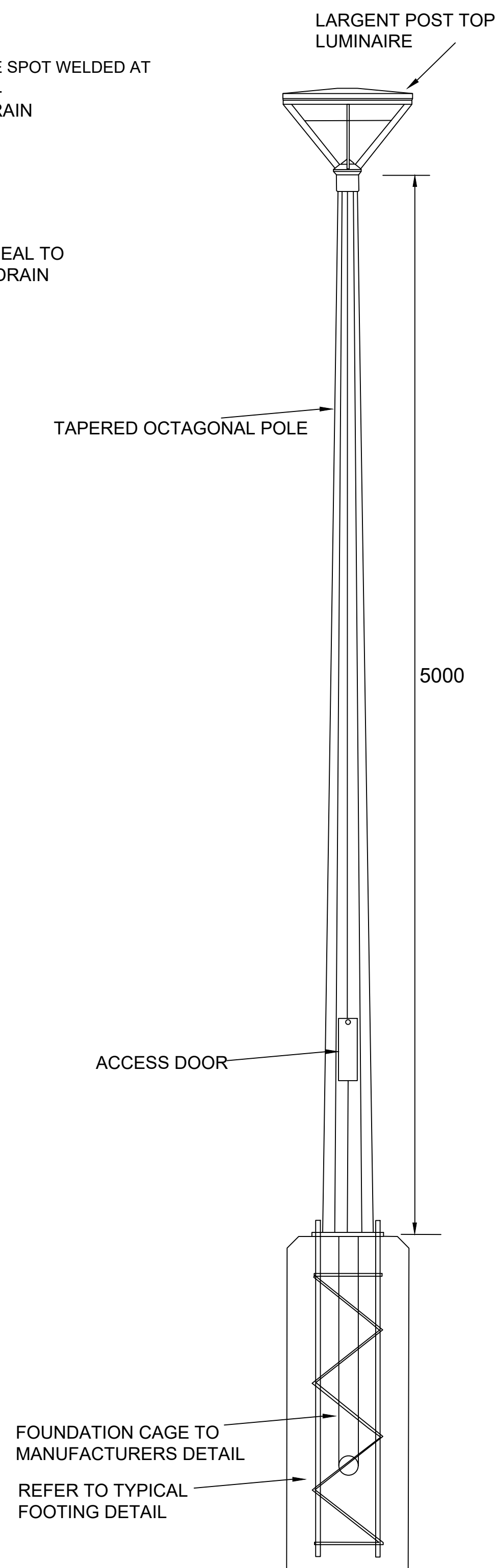
SCALE - NTS



SCALE - NTS



SCALE - NTS



SCALE - NTS

Public Lighting Certification, Design & Consultancy
Tel: 0422 563 689
Email: design@bransonjames.com.au

LIGHTING CERTIFICATION DESIGN

DRAWN BH	DESIGNED BH	CHECKED	SCALE (AT FULL SIZE) NTS@A1	DATE 11/5/23
PROJECT No. BJ911		DRAWING No. BJ911-04		REVISION V02