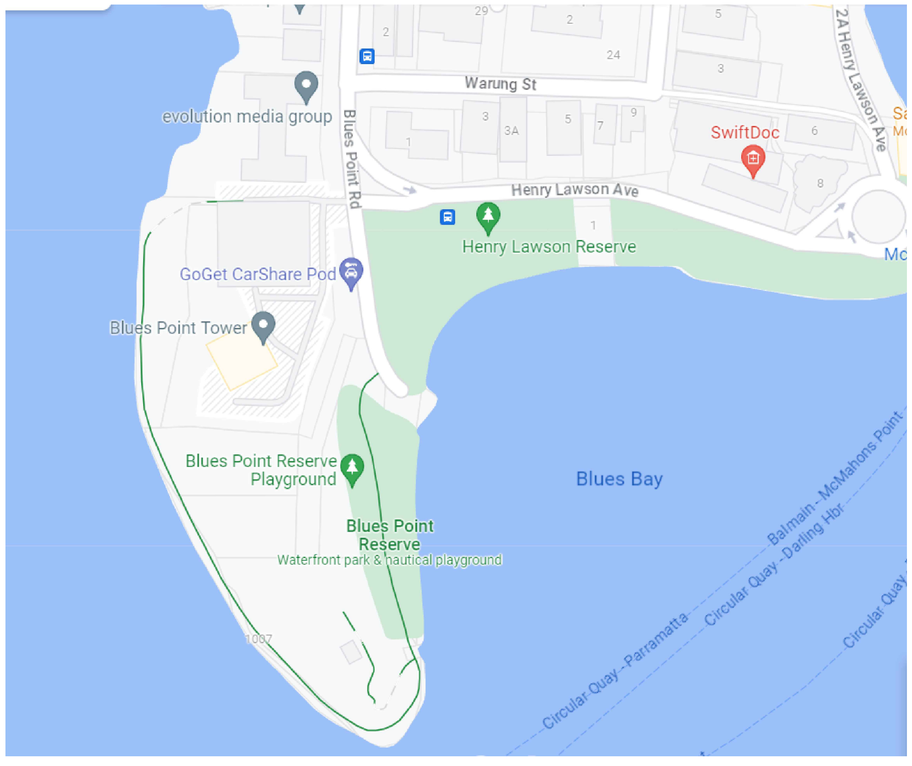
BLUES POINT RESERVE
McMAHONS POINT
PATHWAY LIGHTING



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.

CONSULTATION ISSUE 11/5/23

SCALE BAR 1:200

0 5 10 20 30 40

NOTE: NO VIABLE SURVEY DATA WAS AVAILABLE AT THE TIME OF PREPARING THIS DESIGN. THE DESIGN IS BASED ON INDICATIVE FEATURE AND ASSET LOCATIONS ONLY.

HENRY ST

Ex conduits

Ex L-10

Ex L-09

Existing Main Switch Board MSB-01

2 x 80mm dia electrical conduits

BLUES POINT RD

Ex L-08

L-20

Ex L-07

Ex L-06

Ex conduits

2 x 80mm dia electrical conduits

Ex L-05

Ex L-04

L-19

Ex L-02

Pathway

Ex L-03

Ex conduits Ex L-04

2 x 80mm dia electrical conduits

Ex L-01

L-18

Indicative Pathway

L-1

L-12

BLUES POINT RESERVE

2 x 80mm dia electrical conduits

L-17

2 x 80mm dia electrical conduits

L-11

L-2

JOINS SHEET 2

JOINS SHEET 2

ORIGINAL A1

AMENDMENTS/REVISIONS

Rev	Description	Initials	Date
01	Initial Release		

LEGEND

- NEW POST TOP LUMINAIRE
- EXISTING POST TOP LUMINAIRE
- EXISTING MAIN SWITCHBOARD
- EXISTING CABLE PIT
- EXISTING CONDUITS
- NEW CONDUITS
- NEW CABLE PIT
- EXISTING AUSGRID POLE REMOVED BY OTHERS

NORTH SYDNEY COUNCIL

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DRAWING TITLE

BLUES POINT RESERVE
McMAHONS POINT
PUBLIC DOMAIN LIGHTING

LIGHTING CERTIFICATION DESIGN

DRAWN	DESIGNED	CHECKED	SCALE (AT FULL SIZE)	DATE
BH	BH		1:200@A1	11/5/23

PROJECT No.	DRAWING No.	REVISION
BJ911	BJ911-01	V02

JOINS SHEET 1

JOINS SHEET 1

BLUES POINT RESERVE

SYDNEY HARBOUR

2 x 80mm dia electrical conduits

2 x 80mm dia electrical conduits

2 x 80mm dia electrical conduits

2 x 80mm dia electrical conduits

2 x 80mm dia electrical conduit

L-2

L-3

L-4

L-5

L-6

L-7

L-8

L-9

L-10

L-13

L-14

L-15

L-16

Indicative Pathway

Pathway

Pathway

LIGHT POLE	DISTANCE (m)
ExL-01 -L-1	17
L-1 - L-2	20
L-2 - L-3	27
L-3 - L-4	25
L-4 - L-5	23
L-5 - L-6	18
L-6 - L-7	17
L-7 - L-8	37
L-8 - L-9	33
L-9 - L-10	30
L-10 - L-11	32
L-11 - L12	20
ExL-09 - L-20	12
L-20 - L-19	30
L-19 - L18	29
L-18 - L-17	23
L-17 - L-16	21
L-16 - L-15	24
L-15 - L-14	20
L-14 - L-13	19

NOTE: DIMENSIONS ARE BASED ON STRAIGHT MEASUREMENT BETWEEN POLES.
ALL POLES SHOULD BE PEGGED ON SITE IN CONJUNCTION WITH DESIGNER AND NORTH SYDNEY COUNCIL.

NOTE: NO VIABLE SURVEY DATA WAS AVAILABLE AT THE TIME OF PREPARING THIS DESIGN. THE DESIGN IS BASED ON INDICATIVE FEATURE AND ASSET LOCATIONS ONLY.

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0 5 10 20 30 40

ORIGINAL A1

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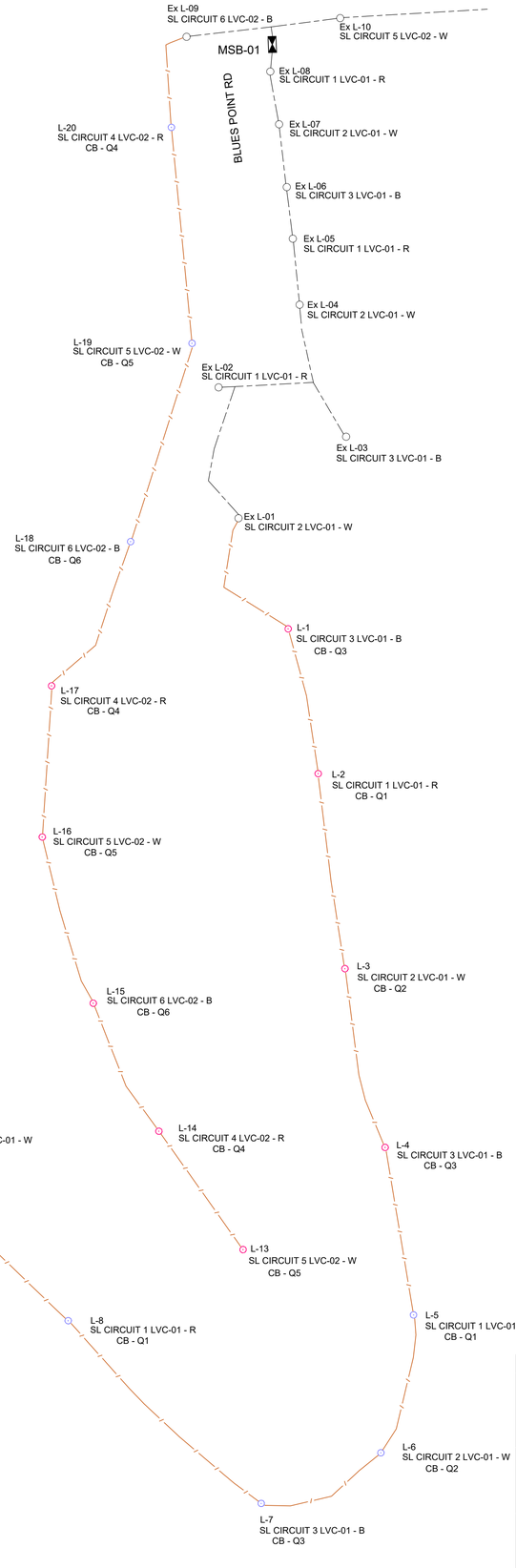
FINAL LIGHTING CIRCUIT

NOT TO SCALE

EXISTING LIGHTING CIRCUITS FROM MSB-01

LAY 2C 6mm2 PVC/PVC WITH 2.5mm2 EARTH

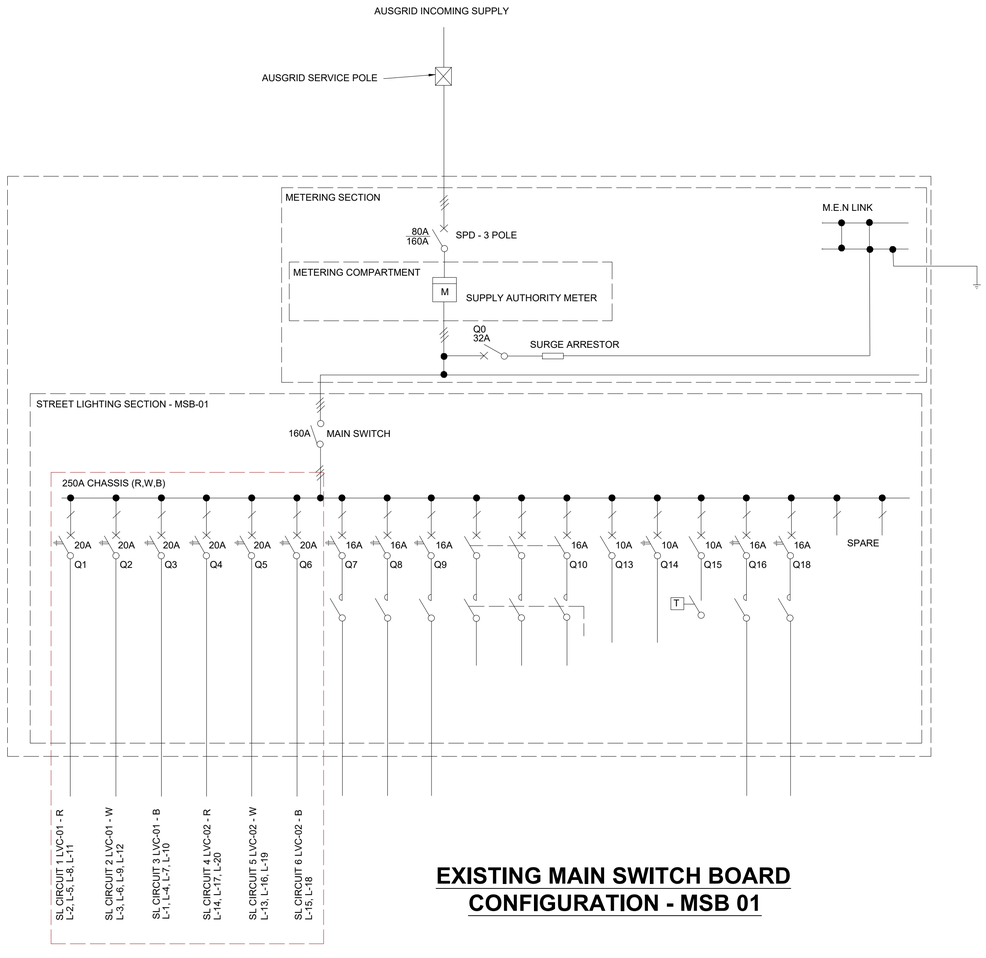


LUMINAIRE DIMMING	
LUMINAIRE OUTPUT %	P CATEGORY COMPLIANCE
100%	PP2
80%	PP3
60%	PP3
40%	PP4

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



EXISTING MAIN SWITCH BOARD CONFIGURATION - MSB 01

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)
	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
	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

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LEGEND

NEW POST TOP LUMINAIRE

EXISTING POST TOP LUMINAIRE

EXISTING MAIN SWITCHBOARD

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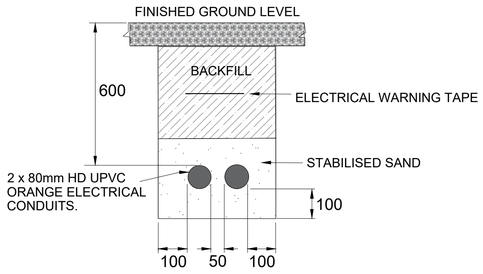
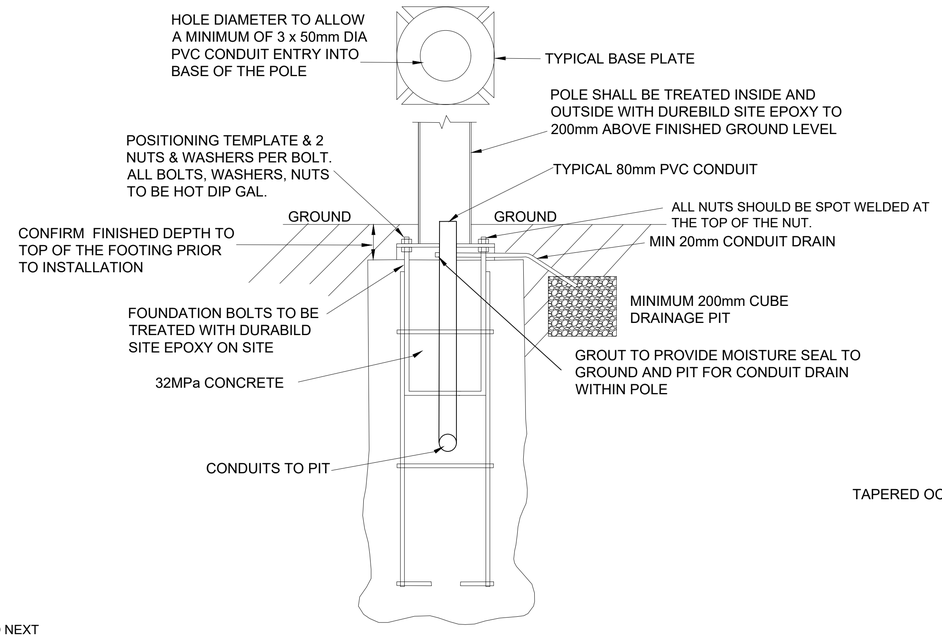


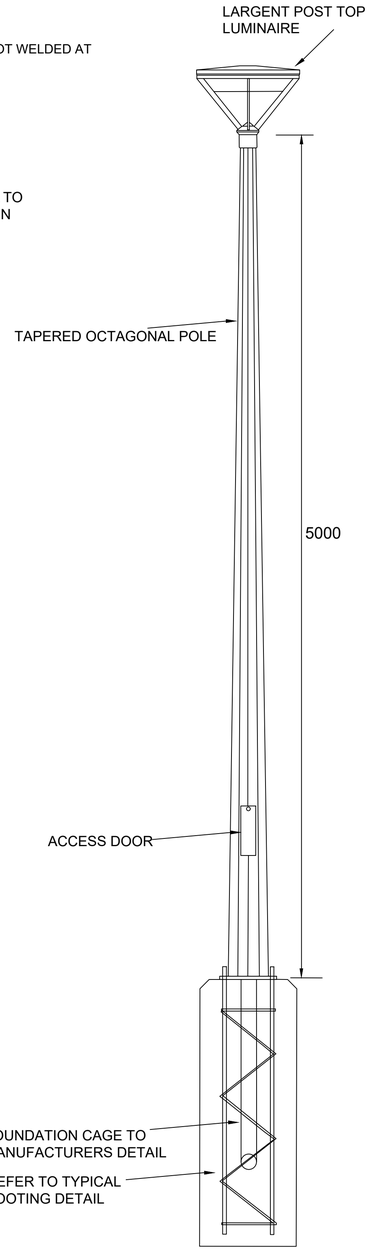
TYPICAL TRENCH DETAIL

SCALE - NTS



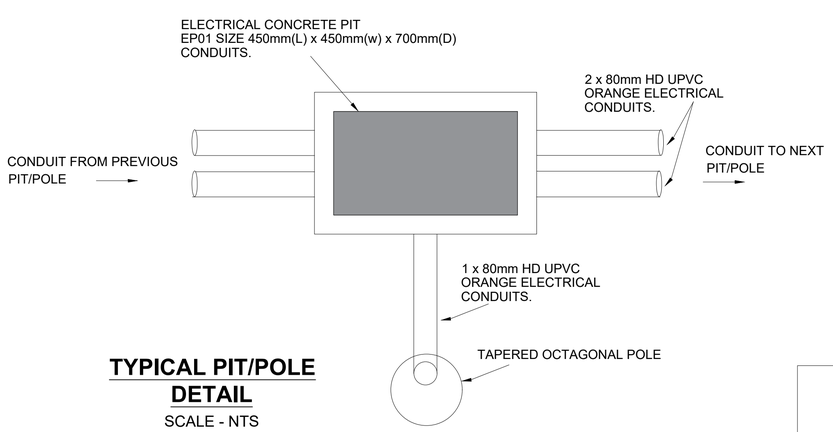
TYPICAL FOOTING DETAIL

SCALE - NTS



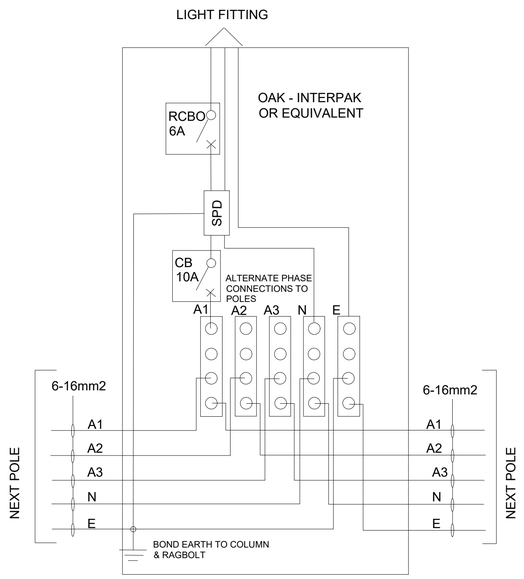
LIGHT POLE DETAIL

SCALE - NTS



TYPICAL PIT/POLE DETAIL

SCALE - NTS



TYPICAL LIGHT POLE WIRING DIAGRAM

SCALE - NTS

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ORIGINAL A1