TYPICAL ELECTRICAL & COMMS CONDUIT ARRANGEMENT (FOOTPATH)

FOOTPATH

FINISHED GROUND LEVEL

1 x Ø63mm UPVC ORANGE CONDUIT FOR STREET LIGHTING & POWER.
2 x Ø63mm UPVC ORANGE CONDUIT FOR POWER PROVISION FOR FUTURE USE.

3 x Ø50mm UPVC WHITE CONDUIT FOR COMMUNICATIONS CABLING. PROVISION FOR FUTURE USE

ELECTRICAL POLYMER COVER STRIP

COMMUNICATIONS MARKER TAPE

TYPICAL ELECTRICAL & COMMS CONDUIT ARRANGEMENT (ROAD)

ROAD

FINISHED GROUND LEVEL

1 x Ø63mm UPVC ORANGE CONDUIT FOR STREET LIGHTING & POWER.
2 x Ø63mm UPVC ORANGE CONDUIT FOR POWER PROVISION FOR FUTURE USE.

3 x Ø50mm UPVC WHITE CONDUIT FOR COMMUNICATIONS CABLING. PROVISION FOR FUTURE USE

ELECTRICAL POLYMER COVER STRIP

NOTE: ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

SECTION 1:10
**GENERAL**

"ROCKS" TYPE COLUMN INCLUDING FOOTINGS

**SCALE:** NTS

**NOTE:** ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

1. ALL STEEL PLATES TO CONFORM TO AS/NZS 1594, GRADE H300 U.O.N.
2. ALL STEEL TO CONFORM TO AS/NZS 3679 GRADE 300 U.O.N.
3. ALL TAPER LOCK JOINT LENGTHS ARE NOMINAL U.O.N.
4. ALL STEEL TO BE FULLY HOT DIP GALVANIZED AFTER FABRICATION
5. IN ACCORDANCE WITH AS/NZS 4860

**NOTES:**

- Supplied with 1" BSP screw-on cap.
- External thread 1" BSP x 40 lg.
- 5 sets of M6 x 40 lg. S/Steel studs each fitted with 3 brass nuts and 1 brass washer.
- M10 x 30 lg. button head socket screw.
- 200 NB (219.1 O/D)
- 240 REF.
- 885 REF.
- 575 CLEAR
- 572 CENTRES
- PAINT WITH DULUX DUREBILD STE.
- Available for cable access.
- 4 slots Ø28 equi-spaced on 330 PCD.
  To suit M24 foundation bolts.
  Base plate 330 x 330.

**REFERENCES:**

- DETAIL B
- DETAIL A
- DETAIL C
- DETAIL D

**DRAWING INFO:**

- **Rev:** B
- **Date:** 22.03.13
- **Approved:** PS
- **Dwg No.:** 5.1.2

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**CITY OF SYDNEY**

**LIGHTING**
### Minor Equipment Schedule

<table>
<thead>
<tr>
<th>Items</th>
<th>Description</th>
<th>Reference/Part No</th>
<th>Qty</th>
</tr>
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<tbody>
<tr>
<td>Service Fuses</td>
<td>IPD Series 7 Service Fuse Back Connection + Fuse Link</td>
<td>#S71002BBWAI+RHLF100</td>
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<tr>
<td>Three Phase Meter</td>
<td>Supplied and Fitted by Others</td>
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<tr>
<td>Service Meter Neutral Link</td>
<td>Netec Sealable Links 300 &amp; 2x10mm</td>
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<tr>
<td>Main Isolator</td>
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<tr>
<td>3P 12-Way Comb Busbar</td>
<td>Schneider 3P 12-Way 100A Comb Busbar with Endcap</td>
<td>#SN-A9F1012</td>
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<tr>
<td>3P 24-Way Comb Busbar</td>
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<td>#SN-A9F1024</td>
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<td>Anti Condensation Heater</td>
<td>IPD - 100 - 250V AC 1NC Thermostat</td>
<td>#TRT-10A250V-NC</td>
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<tr>
<td>Thermostat</td>
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<td></td>
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<tr>
<td>Fuse Carrier</td>
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<tr>
<td>10A Fuse Link</td>
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<td>#ACC-FUS-10G/100</td>
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<tr>
<td>A.O.M Switch</td>
<td>TELUX DIN Rail Mounted 20A Non-locable 2P Switch</td>
<td>#PM10REDU1-5MR</td>
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<tr>
<td>Contractor (CT)</td>
<td>LS Contractor 3P 1N DC 400V 50Hz 24V</td>
<td>#S8-ACC-50A</td>
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<tr>
<td>Terminal</td>
<td>Terminal 2/50 Ac/Grey</td>
<td>#ACC-TERM-50/250</td>
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<tr>
<td>3P16 Padlockable Handle</td>
<td>Swing Handle Padlockable 55216</td>
<td>#GEN-HANDLE-55216</td>
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<tr>
<td>MCB</td>
<td>Schneider 1P 5A 60A MCB C - Curve</td>
<td>#S9-ASSC-1050</td>
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<tr>
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<td>Schneider 3P 250A 60A MCB C - Curve</td>
<td>#S9-ASSC-4250</td>
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<tr>
<td></td>
<td>Schneider 2P 20A 10A MCB with 30mA RCD Protection C-Curve</td>
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### General

**Street Lighting Main Switchboard Details & Schematics (Sheet 1)**

**City of Sydney**

**Site Location**

**ENERGY AUTHORITY**

**METER ENCLOSURE**

**Main Isolator**

**Switchboard & Manufacturer Details**

Refer to CoS Street Lighting Standard Section B8

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**Note:**
- To be read in conjunction with Drawing 5.1.4
- All dimensions in millimetres unless otherwise stated

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**Diagram Description:**

- **A:** Front Elevation (with doors fitted)
- **A:** Front Elevation (with doors removed)
- **Section A-A**

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**Diagram Details:**

- **2:** Street Lighting Main Switchboard
  - Supply Fed from To Be Advised Submain
- **3:** Energy Authority Meter Enclosure
- **4:** City of Sydney Site Location
  - Site Location
- **L:** Switchboard & Manufacturer Details
  - Refer to CoS Street Lighting Standard Section B8

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**Diagram Notes:**

- **L1:** Lighting Distribution Section
  - Diagram Title
  - Diagram Date
  - Diagram Approved
  - Diagram Legend

---

**Diagram References:**

- **Dwg No.:** 5.1.3
- **Rev:** C
- **Approved Date:** 14.03.2016
- **Approved By:** P G
DOORS AND ESCUTCHEONS: 1.5mm GRADE 316 STAINLESS STEEL
OTHER BRACKETS: 1.6mm ZINC SEALED MILD STEEL MIN
BOTTOM GLAND PLATE: 6mm METER PANEL
FORM OF SECGREGATION: FORM 1 - TO AS3439.1 - 2002
DEGREE OF PROTECTION: IP - 66 - REFER TO WEATHER PROOFING DETAIL
FAULT RATING: 6kA FOR 1 SECOND
FINISH:
PREPARATION: DE-SCALE & DE-GREASE
EXTERNAL COLOUR: NATURAL FINISH
INTERNAL COLOUR: NATURAL FINISH
REMOVABLE GEAR PANS & ESCUTCHEON:GLOSS WHITE
PLINTH: GALVANISED
LABELS: ENGRAVED PLASTIC LAMINATE
FIXING: DOUBLE SIDED ADHESIVE & STAINLESS STEEL SCREWS
COLOUR: AS SHOWN
CONTROL WIRING: MINIMUM 1.5mm Cu V90
POWER WIRING: MINIMUM 2.5mm Cu RE110 DOUBLE INSULATED
WIRE MARKERS: STANDARD FERRULES
TERMINATIONS: BARE CABLE ENDS. WHERE TERMINALS REQUIRE LUGS, BOOTLACE FERRULES OR PRE-INSULATED RING LUGS. FORK LUGS SHALL NOT BE USED
COLOUR:
240 AC - PHASE COLOURED
NEUTRAL - BLACK
EARTH - GREEN/YELLOW
CONSTRUCTION: FLOOR MOUNTED, FRONT CONNECTED, RATED AT 100A
CABINET: 2mm 316 STAINLESS STEEL, FOLDED & WELDED MODULAR BOLTED CONSTRUCTION
DOORS AND ESCUTCHEONS:
WEATHER PROOF CHANNEL
SWITCHBOARD CABINET
WEATHER PROOFING DETAIL
NOTES:
MAIN ISOLATOR TO BE LOCATED IN THE ENERGY AUTHORITY SECTION. BUS COMB TO BE FIXED SECURELY TO THE BUSBAR.

NOTE:
TO BE READ IN CONJUNCTION WITH DRAWING 5.1.3
NOTE: ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

GENERAL
THREE PHASE SWITCHBOARD DETAILS & SCHEMATICS (SHEET 2)
FOOTPATH SLAB PENETRATION

150mm(W) CONCRETE BEAM SMARTPOLE FOOTING AS PER STRUCTURAL ENGINEERS SPECIFICATION

IF APPLICABLE, Ø80mm RMS CONDUIT CONDUIT IN THE DIRECTION OF THE NEAREST RMS PIT. REFER TO NOTE 3.

Ø50mm STREET LIGHTING COMMUNICATIONS CONDUIT Ø50mm TELECOM COMMUNICATIONS CONDUIT TO BE CAPPED OFF.

Ø50mm STREET LIGHTING COMMUNICATIONS CONDUIT CONNECTED TO CoS STREET LIGHTING CONDUITS

Ø50mm STREET LIGHTING COMMUNICATIONS CONDUIT Ø63mm ELECTRICAL STREET LIGHTING CONDUIT

IF APPLICABLE, Ø80MM RMS CONDUIT

PLASTIC ELECTRICAL PIT 715 x 410 x 800mm

NOTE: ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

SECTION A-A

SECTION 1:20

NOTE: ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED
FOOTPATH PAVEMENT

STANDARD CONDUIT DEPTH FOR PATHWAYS

PLASTIC ELECTRICAL PIT
715 x 410 x 800mm

CONDUITS LOWER FOR ROAD CROSSING

COMMS CONDUIT

ELECTRICAL CONDUIT

CLASS D INFILL PIT LID

CLASS C INFILL PIT LID

ROAD PAVEMENT

FOOTPATH PAVEMENT

750 MIN

400 MIN

600 MIN

250 MIN

STANDARD CONDUIT DEPTH FOR PATHWAYS

NOTE: ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

SCALE 1:20
NOTE:
TO BE READ IN CONJUNCTION WITH DRAWING 5.1.8
NOTE: ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED
NOTE:
TO BE READ IN CONJUNCTION WITH DRAWING 5.1.7
NOTE: ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED