<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Construction Code Guide - Data Unit</td>
<td>1-10-2-1</td>
</tr>
<tr>
<td></td>
<td>Construction Code Guide - Traffic Light &amp; UMS</td>
<td>1-10-2-2</td>
</tr>
<tr>
<td></td>
<td>Construction Code Guide - Luminaire</td>
<td>1-10-2-3</td>
</tr>
<tr>
<td>SLJU</td>
<td>Major Road Joint Use Traffic Light Underground Service - Material</td>
<td>1-10-8-1</td>
</tr>
<tr>
<td>SLJU</td>
<td>Major Road Joint Use Traffic Light Underground Service - Material</td>
<td>1-10-8-2</td>
</tr>
<tr>
<td>SLJU</td>
<td>Major Road Joint Use Traffic Light Underground Service - Construction</td>
<td>1-10-8-3</td>
</tr>
<tr>
<td></td>
<td>Traffic Signal &amp; Road Lighting</td>
<td>1-10-8-4</td>
</tr>
<tr>
<td></td>
<td>Typical Footing Details</td>
<td>1-10-8-5</td>
</tr>
<tr>
<td>SCLRU</td>
<td>LORA Trial Fitting To 5.5m Minor Road Pole</td>
<td>1-10-9-1</td>
</tr>
</tbody>
</table>

**Lighting Joint Use Index**

**Reference Drawings**

**EE DRWG NO:** 1-10-1-1

**EGX DRWG NO:** 10500-A4-1-10-1-1

**Volume:** 1

**Folder:** 10

**Page:** 1-1

**Issue:** 0F

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Approved Energex: A. Bletchly 01/03/19

Checked: K. Slater 01/03/19

Drawn: L. Burton / T. Borg 01/11/10
SPECIAL CONSTRUCTION DATA UNIT - CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

SCLRU = Special Construction
LORA

PREFIX

SCLRU = Special Construction
LORA

LV MAINS CONNECTION

ABC = LVABC
Cu = Copper
Al = Aluminium Conductor

AERIAL
M = SMD8-90

Approved Ergon
C. Noel 19/04/17

Approved Energex
F. Zaini 19/04/17

Checked
P. Relf / A. Bletchly 01/04/17

Drawn
L. Burton / T. Borg 21/07/16

LIGHTING
JOINT USE - ERGON ENERGY ONLY
CONSTRUCTION CODE GUIDE
DATA UNIT
JOINT USE TRAFFIC LIGHT - CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

SLJU 1 15

STREETLIGHT
SLJU = Streetlight Joint Use

OUTREACH DIMENSION
15 = 1.5m
30 = 3.0m
45 = 4.5m

NO. OF OUTREACH
1 = Single
2 = Double

EXAMPLE:-
SLJU 1 15 = Streetlight Joint Use, Single 1.5m Outreach

UNMETERED SUPPLY FROM STREETLIGHT COLUMN - CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

S UMS MAJ P

STREETLIGHT
S = Streetlight

DESTINATION
UMS = Unmetered Supply

STREETLIGHT COLUMN
MAJ = Major Road
MIN = Minor Road

LOCATION
P = UMS Load Located on Streetlight Column
R = UMS Load Located Remote From Streetlight Column
### STREETLIGHT LUMINAIRE CONSTRUCTION TYPE

Type shown within dashed box appears on relevant construction detail drawings in this manual.

<table>
<thead>
<tr>
<th>STREETLIGHT</th>
<th>LAMP TYPE AND WATTAGE</th>
<th>LUMINAIRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL = Streetlight</td>
<td>S100C = HPS 100W Clear</td>
<td>A = Aeroscreen</td>
</tr>
<tr>
<td></td>
<td>S150C = HPS 150W Clear</td>
<td>No designation required for normal luminaire.</td>
</tr>
<tr>
<td></td>
<td>S250C = HPS 250W Clear</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S400C = HPS 400W Clear</td>
<td></td>
</tr>
</tbody>
</table>

**EXAMPLE:**
- SLS150C = Streetlight, high pressure sodium vapour, 150 watt, clear lamp, normal luminaire.
- SLS250CA = Streetlight, high pressure sodium vapour, 250 watt, clear lamp, aeroscreen luminaire.

### STREETLIGHT LED LUMINAIRE CONSTRUCTION TYPE

Type shown within dashed box appears on relevant construction detail drawings in this manual.

<table>
<thead>
<tr>
<th>STREETLIGHT</th>
<th>SUPPLIER IDENTIFIER</th>
<th>BILLABLE LOAD</th>
<th>LUMINAIRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLED = Streetlight LED</td>
<td>GL = Gerard Lighting</td>
<td>0509 = 50.9W</td>
<td>A = Aeroscreen</td>
</tr>
<tr>
<td></td>
<td>PH = Philips Lighting</td>
<td>0808 = 80.8W</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0912 = 91.2W</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1716 = 171.6W</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2664 = 266.4W</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2356 = 235.6W</td>
<td></td>
</tr>
</tbody>
</table>

**EXAMPLE:**
- SLEDPH0509A = Streetlight LED, Philips Lighting, 50.9W, aeroscreen luminaire.
## MATERIAL - POLE & OUTREACH

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>808-1</td>
<td>Outreach arm - single</td>
<td>1.5m</td>
</tr>
<tr>
<td>808-2</td>
<td></td>
<td>3.0m</td>
</tr>
<tr>
<td>808-3</td>
<td></td>
<td>4.5m</td>
</tr>
<tr>
<td>811-1</td>
<td>Terminal panel and cable to single outreach arm</td>
<td>1</td>
</tr>
<tr>
<td>808-4</td>
<td>Outreach arm - double</td>
<td>1.5m</td>
</tr>
<tr>
<td>808-5</td>
<td></td>
<td>3.0m</td>
</tr>
<tr>
<td>808-6</td>
<td></td>
<td>4.5m</td>
</tr>
<tr>
<td>811-2</td>
<td>Terminal panel and cable to double outreach arm</td>
<td>1</td>
</tr>
</tbody>
</table>

### NOTES:
1. Neutral and earth terminal panel are to be bridged. Make bridge only after polarity has been established.
2. Local authority / QLD transport to supply & install a joint use sticker either above or below traffic light terminal chamber cover.
3. Terminal chamber cover normally faces building line when pole is erected.
4. Foundation and pole to be supplied and erected by MRD or council.
5. Road authority is responsible for engineering certification and supply of the pole and footing. The pole shall have a spigot for attachment of Energy Queensland standard outreach.
6. Road authority shall supply one of the traffic signal's conduit, ie. 1 x 100mm conduit for exclusive use for road lighting. Road lighting cable and traffic signal cable to share conduit between pit and joint use pole.
7. Joint traffic signal and road lighting cable. Pit shall be Energy Queensland P4 type pit or TMR 600mm dia. round pit.
<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>LUMINAIRE MARKING</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>806-1</td>
<td></td>
<td>S100</td>
<td>1</td>
</tr>
<tr>
<td>806-2</td>
<td></td>
<td>S150</td>
<td>1</td>
</tr>
<tr>
<td>806-3</td>
<td></td>
<td>S250</td>
<td>1</td>
</tr>
<tr>
<td>806-4</td>
<td></td>
<td>S400</td>
<td>1</td>
</tr>
<tr>
<td>806-9</td>
<td></td>
<td>H100</td>
<td>1</td>
</tr>
<tr>
<td>806-10</td>
<td></td>
<td>H150</td>
<td>1</td>
</tr>
<tr>
<td>806-11</td>
<td></td>
<td>H250</td>
<td>1</td>
</tr>
<tr>
<td>806-12</td>
<td></td>
<td>H400</td>
<td>1</td>
</tr>
<tr>
<td>841-1</td>
<td>Luminaire normal lamp &amp; PE cell</td>
<td>S100A</td>
<td>1</td>
</tr>
<tr>
<td>841-2</td>
<td></td>
<td>S150A</td>
<td>1</td>
</tr>
<tr>
<td>841-3</td>
<td></td>
<td>S250A</td>
<td>1</td>
</tr>
<tr>
<td>841-4</td>
<td></td>
<td>S400A</td>
<td>1</td>
</tr>
<tr>
<td>841-5</td>
<td></td>
<td>H100A</td>
<td>1</td>
</tr>
<tr>
<td>841-6</td>
<td></td>
<td>H150A</td>
<td>1</td>
</tr>
<tr>
<td>841-7</td>
<td></td>
<td>H250A</td>
<td>1</td>
</tr>
<tr>
<td>841-8</td>
<td></td>
<td>H400A</td>
<td>1</td>
</tr>
<tr>
<td>913-8</td>
<td></td>
<td>L50</td>
<td>1</td>
</tr>
<tr>
<td>913-9</td>
<td></td>
<td>L90</td>
<td>1</td>
</tr>
<tr>
<td>913-10</td>
<td></td>
<td>L80</td>
<td>1</td>
</tr>
</tbody>
</table>
Construction Type

(Pole, Outreach & Foundation) **SLJU**
(Luminaire) **SL**

**Target board refer Road Authority**

**Traffic signal lantern refer Road Authority**

**Labels refer Road Authority**

**Audio tactile driver refer Road Authority**

'Caution 2 sources of 240V supply' adhesive label

**Pole supplied by Road Authority**

**Pedestrian lantern refer Road Authority**

**Traffic signal terminal panel refer Road Authority**

**Labelling as per Road Authority requirements**

**Pushbuttons refer Road Authority**

**Road lighting terminal assembly refer Road Authority**

**Anchor cage refer standard dwg 1328**

**Footing refer Road Authority**

**Drawing 1-10-8-3 provides typical details. See note 5**

**Conduit refer note 6**

**Pit refer note 7**

**Assy Selection**
- 808-4 to 6
- 808-1 to 4 or
- 806-9 to 12 or
- 841-1 to 4 or
- 841-6 to 9
- 913-8 to 13

Approved Energex
A. Betchly 01/03/19

Checked
K. Slater 01/03/19

Drawn
L. Burton / T. Borg 03/04/18

EE DRWG NO: 1-10-8-3
EGX DRWG NO: 10500-A4-1-10-8-3

VOLUME FOLDER PAGE ISSUE
1 10 8-3 0B

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REFERENCE DRAWING ENERGEX

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NOTES:

1. The purpose of this drawing is to provide typical standard details. The fitness for purpose of this drawing for a project shall be determined and certified by an RPEQ Engineer. Additional project specific details may be required to be included in the construction drawings.

ANCHOR CAGE ORIENTATION

Traffic flow (dual carriageway)  
Direction of Outreach  
Kerb Line  
Traffic flow  
Kerb Line #  
Reference point  
Location of hatchway  

BASE PLATE ORIENTATION

# For Dual Outreach Only

LIGHTING

JOINT USE

TRAFFIC SIGNAL AND ROAD LIGHTING

TYPICAL FOOTING DETAILS
NOTES:

1. The purpose of this drawing is to provide typical standard details for traffic signals. The fitness for purpose shall be determined and certified by a RPEQ Engineer. Project specific details may be required to be included in the construction drawing.
2. Designers must ensure the specific project design complies with the earth fault loop impedance and voltage drop requirements.
3. Single phase only shown.
5. Fused connection in junction kit shall be used for TMR joint use poles.

ROAD LIGHTING SUPPLY

NEXT ROAD LIGHTING POLE ON SAME CIRCUIT

TRAFFIC SIGNAL SUPPLY

LIGHTING JOINT USE MAJOR ROAD JOINT USE TRAFFIC LIGHT UNDERGROUND SERVICE - CONSTRUCTION
**MATERIAL - POLE & OUTREACH**

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>805-6</td>
<td>Conduit PVC flexible 16mm</td>
<td>1</td>
</tr>
<tr>
<td>805-10</td>
<td>Terminator conduit PVC flexible 16mm</td>
<td>1</td>
</tr>
<tr>
<td>811-2</td>
<td>Major Road terminal panel</td>
<td>1</td>
</tr>
<tr>
<td>905-2</td>
<td>LORA control box to steel pole</td>
<td>1</td>
</tr>
<tr>
<td>905-5</td>
<td>Antenna to steel pole attachment</td>
<td>1</td>
</tr>
<tr>
<td>906-1</td>
<td>Bandit strap to steel pole</td>
<td>1</td>
</tr>
<tr>
<td>906-5</td>
<td>Cable guard to steel pole</td>
<td>1</td>
</tr>
</tbody>
</table>

**NOTES:**

1. LORA unit can ONLY be installed on single outreach arm poles.
2. Bracket supplied - (Telco antennas part number TF-MA-RACB).
3. Upgrade terminal panel to Assy 811-2.
4. With panel removed from pole, drill a 20mm hole in terminal panel cover.
   Remove all sharp edges and burrs. Insert conduit containing the LV cable through the hole,
   seal hole around conduit with Silastic or equivalent.
   Terminate the cable as per Assy 811-2 ensuring there are drip loops as illustrated.
5. Use cable guard as per design drawing 1061078.
6. Control box shall face the property boundary.
7. Orient the antenna to the direction specified by the design.
8. Antenna UHF Dipole Model SMD8-90 supplied by project partner (NNNCo).
9. Base station including power supply and modem supplied by project partner (NNNCo).
10. Extension to antenna tail supplied by project partner (NNNCo).

**Construction Type**

SCLRU