

LOCALITY PLAN
N.T.S.

CERTIFICATE OF COMPLIANCE

DESIGN DOCUMENTATION IN ACCORDANCE WITH THE REQUIREMENTS OF COMPLIANCE OF AS/NZS 1158

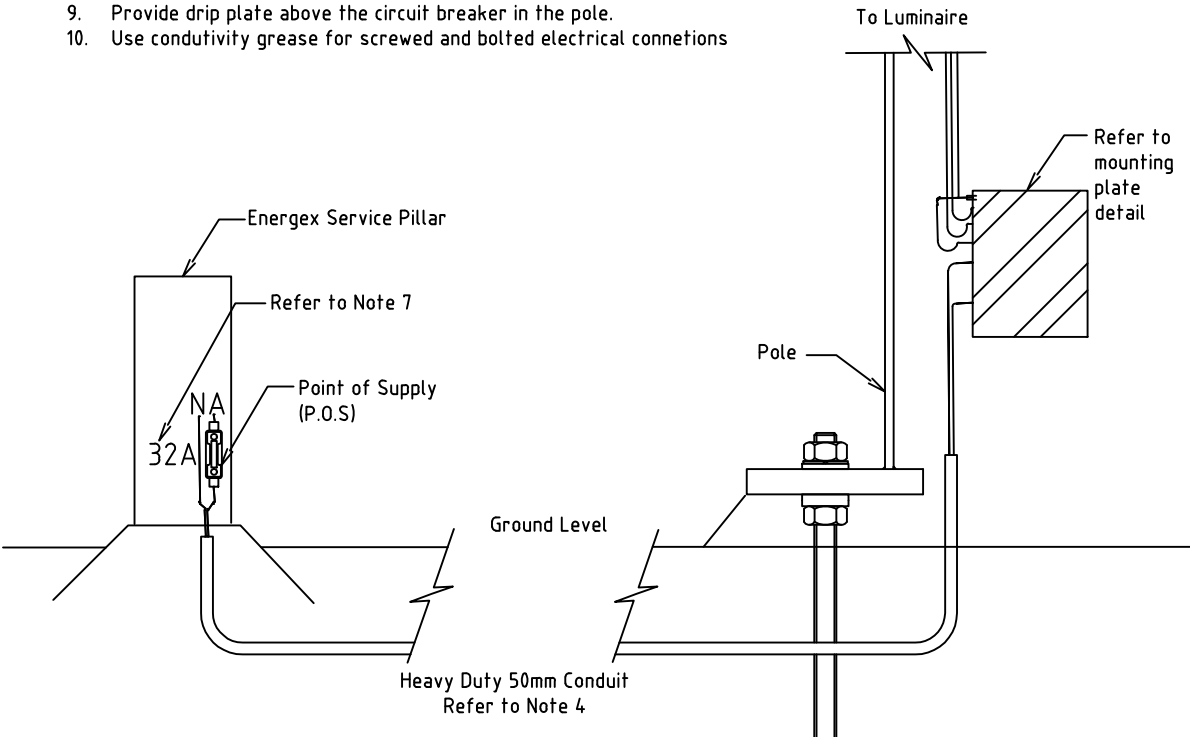
- * Refer AS1158.1:2022 Appendix D for information regarding V category
- * Refer AS1158.3:2020 Appendix C for information regarding P category
- * PerfectLite 5.06 computer software used
- * AGI32 computer software used

| ITEM | PROJECT SPECIFICATION | PROJECT SPECIFICATION |
|---|-----------------------|-----------------------|
| LIGHTING CATEGORY | | |
| Road Name | HEWETT ST | PATHWAY |
| Nominated Lighting Category | PR5 | PP4 |
| Road Surface Reflection Characteristic | R3 | R3 |
| INSTALLATION GEOMETRY | | |
| Road Reserve/Path Lighting Design Width | 16m | 1.5m |
| Mounting Height | 5.1m | 5m |
| Overhang | 0m | 0m |
| Lighting Arrangement | ARR1 | ARR1 |
| Pole Setback | 1.14IOK | 0.5 PATH |
| Uplight Angle | 0° | 0° |

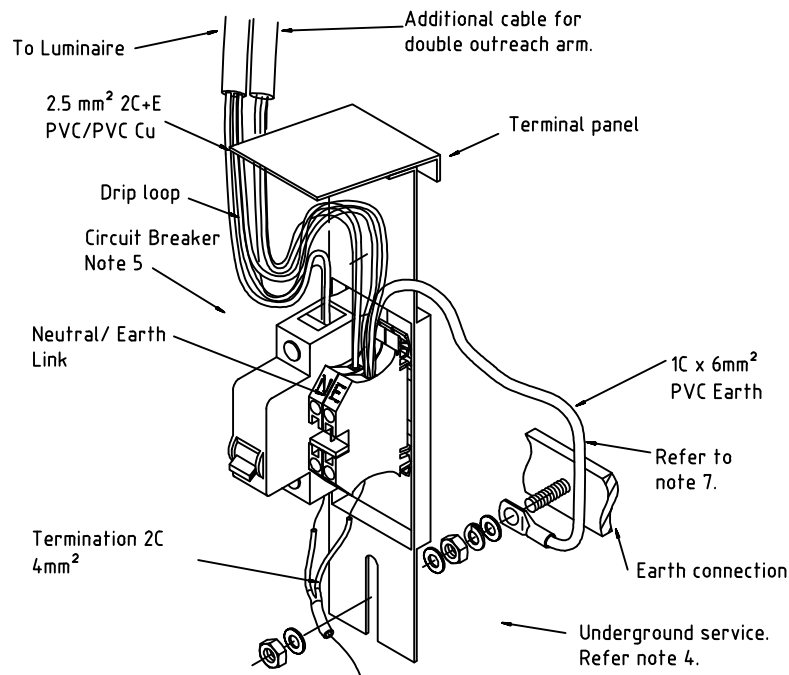
| | | |
|---|--------------------------------------|---|
| LUMINAIRE/LAMP 1 DETAILS | | |
| Lamp Type / Wattage | L14 (Nostalgia Type 1) | L14AL |
| Luminaire Identification | Sylvania Schröder AVENUE GEN2 14W 4K | Sylvania Schröder STREETLED MKIII 14W Aeroscreen Louvre |
| Lamp Flux (Lumens) | 1969 | 1290 |
| I-Table Number (cie) | AVENUE II 4K 14W V2 210729PH | StreetLED3 14W 4K Aero LVR 220828PH2 |
| Lighting Tariff | 3 | 3 |
| Power Factor | HPF (≥ 0.9) | HPF (≥ 0.9) |
| Start/Run Currents (Amps) | 0.06 | 40.4/0.06 |
| IP Rating | IP66 | IP66 |
| CATEGORY PR5 LUMINAIRE/LAMP 1 MAXIMUM SPACING CALCCS | | |
| Average Horizontal Illuminance (E _a) | 20.85 lx | 21.5 lx |
| Minimum Point Horizontal Illuminance (E _{min}) | 20.14 lx | 20.25 lx |
| Illuminance Uniformity (U _o) | 510 | 55 |
| Upward wasted light ratio (UNWLR) % | 50% | 50% |
| Road Reserve Lighting Design Width (m) | Maximum Spacing (m) | Maximum Spacing (m) |
| 1.5 | - | 58 |
| 16 | 55.3 | - |
| 16.5 | 55 | - |

NOTES

- All dimensions shown are in mm.
- Dimensions shown are minimum only.
- RCD protection on lighting final subcircuit not required as per Ipswich City Council risk assessment and AS3000 2.6.3.2.1 Exception 5.
- Cable shall be a minimum of 4mm² XLPE/TPe Cu and suitable for underground installation.
- Circuit breaker type and rating shall be determined by the designer. Circuit breaker rating depicted on the drawings are indicative only. To be labelled as "MAIN SWITCH".
- Include drip loops of nominal 100mm radius.
- Provide tag "MAIN EARTH - DO NOT DISCONNECT".
- Fuse rating indicative only.
- Provide drip plate above the circuit breaker in the pole.
- Use conductivity grease for screwed and bolted electrical connections.



CROSS SECTION
(N.T.S.)



MOUNTING PLATE DETAIL
(N.T.S.)

RATE 3 STREET LIGHT CONNECTION

**!WARNING!
FIRE ANT TERRITORY**

THIS SITE IS WITHIN A RED IMPORTED FIRE ANT BIOSECURITY ZONE. CALL 132523 FOR FURTHER INFORMATION.

CONSTRUCTION ISSUE

CIRCUIT NOTES

- ALL CALCULATIONS BASED ON 240V SUPPLY.
- FAULT LOOP IMPEDANCE CALCULATED USING 0.4s DISCONNECT TIME.
- ONLY TYPE B OR C CIRCUIT BREAKERS TO BE USED UNLESS NOTED OTHERWISE.
CIRCUIT BREAKER SIZE:
(i) MINOR ROAD 10A
(ii) MAJOR ROAD 16A
1A OF 4.5 TIMES RATED C/B CURRENT.
- INSTALLATION TO COMPLY WITH THE REQUIREMENTS OF AS/NZS 3000:2018.
- NO RED HAS BEEN INCLUDED IN CIRCUIT DESIGN DUE TO RISK OF NUISANCE TRIPPING CAUSING DANGER GREATER THAN EARTH LEAKAGE CURRENT.

RATE 3 LED LIGHTING INFORMATION

DESCRIPTION: SYLVANIA SCHRÖDER NOSTALGIA GEN2 14W NOSTALGIA TYPE 2, NEMA 7 PIN DIMMABLE LUMINAIRE
ORDER CODE: 210729PH
DESCRIPTION: SYLVANIA SCHRÖDER STREETLED MKIII 14W 4K AEROSCREEN LOUVRE, NEMA 7 PIN DIMMABLE LUMINAIRE.
ORDER CODE: 220828PH

RATE 3 LED LIGHTING NOTES

- DESIGNED IN ACCORDANCE WITH IPSWICH CITY COUNCIL PLANNING SCHEME POLICY 3.
- ALL HERITAGE & DECORATIVE POLES & OUTREACHES TO BE POWDER COATED BLACK.
- ALL HERITAGE & DECORATIVE LUMINAIRES TO BE POWDER COATED BLACK.
- ALL OTHER POLES & OUTREACHES TO BE GALVANISED.
- CONTRACTOR TO ENSURE LUMINAIRES ARE MOUNTED WITH ZERO DEGREE TILT.

STREET LIGHT CERTIFICATION

ROAD LIGHTING CERTIFIED TO COMPLY WITH IPSWICH CITY COUNCIL PLANNING SCHEME POLICY 3 AND REQUIREMENTS FOR AS/NZS 1158.1:2022 FOR 'V' CATEGORY & AS/NZS 1158.3:2020 FOR 'P' CATEGORY FOR LUMINAIRES AND LAMPS SUPPLIED UNDER AEMO APPROVED UNMETERED SUPPLY TABLE. INSTALLATION TO COMPLY WITH THE REQUIREMENTS OF AS/NZS 3000:2018. THE LIGHTING DESIGN IS BASED UPON THE FOLLOWING MAINTENANCE SCHEDULE:

- * LAMP REPLACEMENT AT 8000 HOURS INTERVALS INC. CLEANING & INSPECTION OF LUMINAIRE EVERY 48 MONTHS.
- * VEGETATION TO BE KEPT CLEAR OF LUMINAIRES.
- * INSPECTION PATROLS & SPOT LAMP REPLACEMENT TO MAINTAIN SERVICE AVAILABILITY AT MIN. 95%.
- * LUMINAIRES & LAMPS TO BE REPLACED WITH EXACT EQUIVALENTS - EQUIVALENTS.

| | |
|----------------------------|--------------------|
| STREET NAME | LIGHTING CATEGORY |
| HEWETT ST | PR5 |
| PATHWAY | PP4 |
| KRIS BOVEINIS (RPEQ 22272) | <i>K. Boveinis</i> |
| DATE | 10.12.24 |

REFER TO PROJECT S1302372 WORKS PLANS FOR ENERGEX WORKS PLANS.



RATE 3 UNDERGROUND CABLE SCHEDULE

| LOCATION | STATIONS FROM-TO | VOLTS | EXIST | TRF | REC | INSTALL | CABLE SIZE/TYPE | MODEL ID | ROUTE LENGTH (m) | CABLE LENGTH (m) | | LCC | REMARKS |
|-----------|------------------|-------|-------|-----|-----|---------|--------------------------------|-----------|------------------|------------------|-----|-----|---------|
| | | | | | | | | | | NEW | REC | | |
| HEWETT ST | 11 - 11L | SL | | | | * | 4mm ² 2C Cu PVC/PVC | LVC24PVPV | 2 | 5 | | | |
| | 13 - 13L | SL | | | | * | 4mm ² 2C Cu PVC/PVC | LVC24PVPV | 2 | 5 | | | |
| | 14 - 14L1 | SL | | | | * | 4mm ² 2C Cu PVC/PVC | LVC24PVPV | 27 | 30 | | | |
| | 14 - 14L2 | SL | | | | * | 4mm ² 2C Cu PVC/PVC | LVC24PVPV | 32 | 35 | | | |
| | 15 - 15L | SL | | | | * | 4mm ² 2C Cu PVC/PVC | LVC24PVPV | 17 | 20 | | | |
| | 22 - 22L | SL | | | | * | 4mm ² 2C Cu PVC/PVC | LVC24PVPV | 12 | 15 | | | |
| TOTALS | | SL | | | | | 4mm ² 2C Cu PVC/PVC | LVC24PVPV | | 110 | | | |

RATE 3 STREETLIGHT SCHEDULE

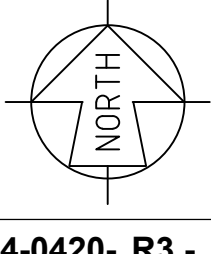
| LOCATION | STN No | SITE ID (POLE No) | POLE or COMPONENTS | | | | | | LANTERN | | | | | | OUTREACH BRACKET | | | | | | MOUNT HEIGHT (m) | REMARKS | |
|-----------|--------|-------------------|--------------------|-----------|---------|-----------|------------|-----------|---------|-------|---------------|------|---------------|-------------|------------------|------------|------------|-----------|---------|-----------|------------------|---------|---|
| | | | COMP ID | EXIST (m) | REC (m) | ERECT (m) | SLM or IIN | ALIGN (m) | COMP ID | EXIST | RECOVER LUMIN | CUST | DATE DE-ENERG | ERECT LUMIN | CUST | DATE ENERG | SLM or IIN | EXIST (m) | REC (m) | ERECT (m) | | | SLM or IIN |
| HEWETT ST | 11L | W12737989 | PO 1 | | | 4.5BPM | SLNOS3CI | 1.14IOK | SL 1 | | | | L14 | IPSW | 20/05/25 | 210729PH | | | | | 0° | 5.1 | |
| | 13L | W12738383 | PO 1 | | | 4.5BPM | SLNOS3CI | 1.14IOK | SL 1 | | | | L14 | IPSW | 06/06/25 | 210729PH | | | | | 0° | 5.1 | |
| | 14L1 | W12737990 | PO 1 | | | 4.5BPM | SLNOS3CI | 1.14IOK | SL 1 | | | | L14 | IPSW | 20/05/25 | 210729PH | | | | | 0° | 5.1 | |
| | 14L2 | W12737991 | PO 1 | | | 5BPM | SB50H005CI | 0.5 PATH | SL 1 | | | | L14AL | IPSW | 20/05/25 | 220828PH | | | | | 0° | 5 | MID HINGED POLE W/ LOUVRE REPLACE SHORTING CAP W/ NEMA CELL |
| | 15L | W12737992 | PO 1 | | | 4.5BPM | SLNOS3CI | 1.14IOK | SL 1 | | | | L14 | IPSW | 20/05/25 | 210729PH | | | | | 0° | 5.1 | |
| | 22L | W12737993 | PO 1 | | | 4.5BPM | SLNOS3CI | 1.14IOK | SL 1 | | | | L14 | IPSW | 20/05/25 | 210729PH | | | | | 0° | 5.1 | |

- * All poles will require Rate 3 Ipswich City Council streetlight pole site label "ICC3", requirements:
- Durable and clearly visible permanently fixed weatherproof label
 - Green back with white writing
 - Writing to be vertically aligned
 - Text font size to be 25mm high
 - Rate 3 label to be affixed to pole above Energex site ID label.
- *EOP - Edge of Pathway
*IOK - Invert of Kerb

| DATE | 11.10.24 | 18.11.24 | 10.12.24 |
|---------------------------------|----------|----------|----------|
| R DESCRIPTION | | | |
| A ISSUED FOR COUNCIL ACCEPTANCE | | | |
| B ISSUED FOR ENERGEX ACCEPTANCE | | | |
| C ISSUED FOR CONSTRUCTION | | | |

PE CONSULTING ENGINEERS

STREET ADDRESS: U14, 39 Lawrence Dr, Naring QLD 4211
POSTAL ADDRESS: PO Box 2835, Naring QLD 4211
TELEPHONE: (07) 5596 1425
EMAIL: mail@pece.com.au
WEB: pece.com.au



24-0420- R3 - 01

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|-----------------------------|------------|------------------------------------|--------------------|--------------------------|--|----------------------|--|-----------------|--|----------------------|--|-------------|--|------------------------------|--|
| SITE CONTACT DETAILS | | COUNCIL STANDARD ALIGNMENTS | | WORKS COORDINATOR | | PECE | | APPROVED | | KRIS BOVEINIS | | PECE | | WORKSPLAN VERSION 5.5 | |
| NAME | Energex OH | 2.95m RP | PARENT PROJECT NO. | | | | | CHECKED | | AARON PRUSS | | | | SCALE: 1:500@A1 | |
| TBC COMPANY | Energex UG | 0-0.9m RP | WORK REQUEST NO. | | | | | DESIGNER | | ANTHONY JOWETT | | | | PROJECT / SUB PROJECT NO. | |
| - | NBN | REFER NBN | LOTS | | | 837 - 856 | | PLANNER | | ANTHONY JOWETT | | | | | |
| PHONE | - | HP GAS | REFER GAS | CANCELLING LOTS | | LOT 4 ON SP343791 | | PHONE | | (07) 5596 1425 | | | | | |
| MOBILE | - | WATER | REFER CIVIL | LOCAL AUTHORITY | | IPSWICH CITY COUNCIL | | PHONE | | (07) 5596 1425 | | | | | |
| FAX | - | SEWERAGE | REFER CIVIL | UBD REF | | | | ISSUE DATE | | 10 DECEMBER 2024 | | | | | |
| | | OTHER | REFER CIVIL | PEGGED? | | | | | | | | | | | |

RATE 3 PUBLIC LIGHTING

20 LOT SUBDIVISION
DAWN ESTATE - NE LOTS
LAWSON ST, WALLOON QLD 4306

S1330004

Sheet 1 of 1
ISSUE NO: c