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|  | **Inspection and Test Plan - Control and Supervision of the Works** | | | | **Doc ID:** ITP 028  **REV:** 0 |
| **Client**: Melbourne Airport | | **Contract No:** CP14038-01 | | **Prepared By:** Giuliano Follacchio | |
| **Project:** Taxiway Zulu | | | **Reviewed By:** Giuliano Follacchio | | **Date:** 12/4/24 |
| **Construction Process:** AGL Luminaires | | | **Approved By:** Giuliano Follacchio | | **Date:** 12/4/24 |
| **Specifications:** ZULU-BECA-001-SPC-00003 | | | | | |
| **Structure / Component:** AGL | | | | | |

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| Lot No: | Lot Details: | Lot size/Quantity: | Date: |

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| **Item No.** | **Task/Activity Description** | **Inspection/Test** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility** Project Engineer Superintendent Surveyor  Foreman | **Checked by:** | | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Subcont ractor** | **Beca** | **FH** | **Date** |
| **1.0** | **Preliminary Works** | | | | | | | | | | | |
| 1.1 | Check for correct documentation | Prior to commencing any activity | Ensure that all employees and  subcontractors are using the latest and complete set of drawings | IFC  Drawings | Verify | Drawings | **IP** | Project Engineer |  |  |  |  |
| 1.2 | Implementation of all measures and controls | Prior to commencing any activities | All necessary measures and controls are being implemented, that is PSP, EMP, TMP, SWMS & WP. | PSP, EMP, TMP, JSEA, SWMS, WP | Verify | Site and office Inspection | **HP\*** | Project Engineer / Site Supervisor |  |  |  |  |
| 1.3 | Material/Equipment Approvals | Prior to start | All materials shall be proven to meet contractual requirements prior to acceptance.   * MAGS shall be from ATG Airfield guidance signs range * Taxiway centre lights shall be from the ADB Safegate range only * Runway guard lights shall be from ADB Safegate only. * Intermediate hold position lights shall be from the ADB   Safegate range only | ZULU- BECA-001- SPC-00003  cl 2.3 | Verify | Aconex reference(s) | **HP\*** | Project Engineer |  |  |  |  |

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|  |  |  | * Stop Bar Lights shall be from the ADB Safegate * IWDI shall be from ALS   Any deviation from the above suppliers shall be submitted to the Contract Administrator for approval prior to  ordering. |  |  |  |  |  |  |  |  |  |
| **2.0** | **Installation of AGL Base** | | | | | | | | | | | |
|  |  |  | Position of rectangular base to be as per |  |  | This ITP signed  Avionics Installation of New MAG Slab and Sign checklist |  |  |  |  |  |  |
|  |  |  | set out coordinated listed in MAGS |  |  |  |  |
|  |  |  | schedules. |  |  |  |  |
|  |  |  | 150mm thick class 2 crushed rock base |  |  |  |  |
|  |  |  | layer compacted to 98% STD on |  |  |  |  |
|  |  |  | prepared subgrade |  |  |  |  |
|  |  |  |  | ZULU- |  |  |  |
| 2.1 | MAG Sign Base | Each lot | 50mm blinding concrete between subgrade and foundation | BECA-023- DWG-  07502 | Visual Inspection | **IP** | Project Engineer |
|  |  |  | Slab thickness to be 300mm for all |  |  |  |  |
|  |  |  | H<900mm signs (signage outside this |  |  |  |  |
|  |  |  | range will require additional design) |  |  |  |  |
|  |  |  | N12-200 top and bottom reinforcing bars |  |  |  |  |
|  |  |  | with minimum 50mm cover from edge of |  |  |  |  |
|  |  |  | concrete. |  |  |  |  |

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| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Subcont ractor** | **Beca** | **FH** | **Date** |
|  |  |  | Sign mounting brackets and frangible  coupling as per manufacturers guidelines |  |  |  |  |  |  |  |  |  |
|  |  |  | Installed and backfilled in accordance | ZULU- BECA-024- DWG- 07501  ZULU- BECA-024- DWG- 07506-8 |  | This ITP signed  Avionics Shallow Canister Installation checklist  /  Avionics Base Canister Installation checklist  / Avionics Top  Canister  Installation checklist |  |  |  |  |  |  |
|  |  |  | with drawings. |  |  |  |
|  |  |  | **Reinstatement in Flexible Pavement** |  |  |  |
|  |  |  | - 500mm deep circular concrete |  |  |  |
|  |  |  | block (500mm diameter for 8” |  |  |  |
|  |  |  | cans, 600mm diameter for 12” |  |  |  |
|  |  |  | cans). |  |  |  |
|  |  |  | - Core depth and pavement |  |  |  |
|  |  |  | embedment for can as per |  |  |  |
|  |  |  | can/fitting manufacturers |  |  |  |
|  |  |  | recommendation. |  |  |  |
| 2.2 | Inset Luminaire Base | Each lot | - Epoxy sealant as per  can/fitting manufacturer’s | Visual  Inspection | **IP** | Project Engineer |
|  |  |  | specifications |  |  |  |
|  |  |  | - DOWSIL 890SL to gap |  |  |  |
|  |  |  | between AGL can and |  |  |  |
|  |  |  | pavement. |  |  |  |
|  |  |  | **Deep Can Installation for Rigid** |  |  |  |
|  |  |  | **Pavement** |  |  |  |
|  |  |  | - Concrete encasement for |  |  |  |
|  |  |  | electrical conduit shall have |  |  |  |
|  |  |  | 75mm minimum cover |  |  |  |
|  |  |  | - 700mm diameter concrete |  |  |  |
|  |  |  | foundation |  |  |  |

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| **Project:** Taxiway Zulu | | | **Reviewed By:** Giuliano Follacchio | | **Date:** 12/4/24 |
| **Construction Process:** AGL Luminaires | | | **Approved By:** Giuliano Follacchio | | **Date:** 12/4/24 |
| **Specifications:** ZULU-BECA-001-SPC-00003 | | | | | |
| **Structure / Component:** AGL | | | | | |

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| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Subcont ractor** | **Beca** | **FH** | **Date** |
|  |  |  | * Minimum 200mm from bottom of can to bottom of foundation * Concrete for deep base can foundation to be strength grade N32 * N12 reinforcement cage to be installed as per AGL details * Epoxy to manufacturers   specifications |  |  |  |  |  |  |  |  |  |
| 2.3 | Elevated Luminaire Base | Each lot | Installed and backfilled in accordance with drawings.   * One-piece L867 can to be installed * Min 500mm cover from finished surface to top of conduit * Can to be fitted with frangible coupling and FAA type/secondary socket retaining arrangement plug and socket * Foundation and reinforcement installation to match Deep Can Installation for Rigid Pavement | ZULU- BECA-024- DWG- 07507 | Visual Inspection | This ITP signed  Avionics Base Canister Installation checklist | **IP** | Project Engineer / Site Supervisor |  |  |  |  |

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| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Subcont ractor** | **Beca** | **FH** | **Date** |
| **3.0** | **Installation of AGL Luminaires** | | | | | | | | | | | |
| 3.1 | Setting out for Airfield Luminaires | Each Lot | The Contractor shall survey the proposed light locations in conjunction with the new and existing linemarking to set out the proposed lights. A schedule of the proposed lights shall be produced by the  Contractor with the following details:   * Surveyed location, with coordinates to the APAM database system. * Orientation including any additional deviation angle from any tangents. * Colour * Circuitry * Labelling | ZULU- BECA-001- SPC-00003  cl 5.4 | Verify | Aconex reference | **HP** | Project Engineer / Beca |  |  |  |  |
| 3.2 | Elevated Light Installation | Each lot | Components of elevated lights shall:   * Be less than 360mm above the pavement level including the frangible coupling. * Be suitable for installation on a threaded connection when installed. | ZULU- BECA-001- SPC-00003  cl 4.4.4.1 | Verify | This ITP signed | **IP** | Project Engineer |  |  |  |  |
| 3.3 | Inset Light Installation | Each lot | Components of inset lights shall:  - Be less than 13mm height above the surrounding surface. | ZULU- BECA-001- SPC-00003 | Verify | This signed ITP | **IP** | Project Engineer |  |  |  |  |

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|  |  |  | - Have a slope of surface of the unit to be less than 20º (not including any recesses). | cl 4.4.4.3 |  | ADBSG  Installation of Inset Light Fittings checklist |  |  |  |  |  |  |
| 3.4 | Series Isolation transformer | Each lot | SITs shall be installed in specified deep base cans or pits. | ZULU- BECA-001- SPC-00003  cl 4.3 | Verify | This ITP signed  ADBSG  Installation of Series Isolating Transformer (SIT) | **IP** | Project Engineer |  |  |  |  |
| 3.5 | Luminaire Circuit | Each lot | Each luminaire fitting shall be installed on the appropriate circuit as specified in the AGL schedule. | ZULU- BECA-024- DWG- 09001-16 | Verify | This ITP signed  As-Built Documentati on | **IP** | Project Engineer |  |  |  |  |
| 3.7 | MAG Sign Face | Each lot | The proposed location for MAGS are to be as indicated on the Drawings.  All MAGS that are to be mounted on frangible couplings. The provision of internal illumination of the MAGS shall be as detailed on the Drawings.  Where multiple panels are required, the inscription shall appear continuous over | ZULU- BECA-001- SPC-00003  cl 4.7.1 | Verify | This ITP signed  Avionics Installation of New MAG Slab and Sign checklist | **IP** | Project Engineer |  |  |  |  |

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|  |  |  | any joint and shall only include a bar if the bar is part of the inscription. |  |  |  |  |  |  |  |  |  |
| **4.0** | **Post Construction** | | | | | | | | | | | |
| 4.1 | As-Built | Each lot | Submission of surveyed luminaire position to superintendent prior to practical completion | WP-001-09 | Verify | SCP | **IP** | Project Engineer |  |  |  |  |
| **Final Inspection**  The signature below verifies that this ITP has been completed in accordance with the Fulton Hogan’s Quality system Procedures and verifies lot compliance with specifications.  **Print Name: Position: Signature: Date: / /** | | | | | | | | | | | | |

**Legend:**

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| **HP** | Hold Point | Work shall not proceed past the HP until released by the Superintendent | **IP** | Inspection point | Formal Inspection to be done and recorded |
| **HP\*** | Fulton Hogan Hold Point | Work shall not proceed past the HP\* until released by Fulton Hogan | **TP** | Test Point | Product compliance test to be undertaken and recorded/reported |
| **WP** | Witness Point | An inspection which must be witnessed by the Superintendent | **SCP** | Survey conformance point | A qualified surveyor to check product/section/structure and report |
| **AP** | Approval Point | Written or verbal approval given by the Superintendent |  | | |

**Notes**

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| Installation of new MAG Slab and Sign | | | | | | |
|  | Pit ID: | | |  | | |
| Pit Type: | | |  | | |
| Class: | | |  | | |
| Manufacturer: | | |  | | |
| Task Details | | Signature: | Date: | | Name: | Status: |
| Task number 1: PRE-WORKS   * Permit to excavate completed, reviewed and approved for works (By Fulton Hogan). * Existing services identified and exposed in accordance with permit to excavate (By Fulton hogan). * Ensure isolation of all services in area (if required). | |  |  | |  |  |
| Task number 2: CIVIL WORKS   * Ensure Surveyor mark out correct position, orientation of the mag slab. * Excavate hole for Mag Slab. As per drawings (noting the varying foundation sizes). * Position stabilised sand in excavation and level as per spec. * Installation of Mag Slab aligned with survey marks also to suit conduit and as per the manufacturers recommendations using suitable lifting equipment. | |  |  | |  |  |
| Task number 3: CIVIL WORKS   * Run the secondary and earth conduit into Mag Slab as per spec. * Backfill around Mag Slab and make level with ground. * Install the earth stake as per spec. * Clean area and demobilize. | |  |  | |  |  |
| Task number 4: ELECTRICAL WORKS   * Ensure studs for MAG legs are installed as per spec and manufacturers recommendations. * Mount MAG sign on slab, ensuring positioned correctly. | |  |  | |  |  |
| Task number 5: ELECTRICAL WORKS  - Ensure all secondary and earth cables have been installed correctly (BY ADB SAFEGATE) | |  |  | |  |  |
| Task number 6: ELECTRICAL WORKS   * Connect, Energise Mag Sign and confirm it is working. * Demobilise. * Complete FOD walk. | |  |  | |  |  |

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| Shallow Canister Installation | | | | | | |
|  | Fitting ID: | | |  | | |
| Light Type: | | |  | | |
| Work Area: | | |  | | |
| Drawing Number: | | |  | | |
| Task Details | | Signature: | Date: | | Name: | Status: |
| Task number 1: PRE-WORKS  - Ensure light position and aiming points are marked out (By Fulton Hogan) | |  |  | |  |  |
| Task number 2: RE-INSTALLATION WORKS (IF APPLICABLE):   * Core 250mm at light position. * Remove core for base positioning | |  |  | |  |  |
| Task number 3: RE-INSTALLATION WORKS (IF APPLICABLE):   * Position new base into alignment jig. * Position base into core hole, level and align to survey marks. * Pour epoxy around canister as per specification | |  |  | |  |  |
| Task number 4: RE-INSTALLATION WORKS:   * Position female secondary connector into light base and earth lead. * Tighten nyloc gland to fit snug with 4mm secondary cable and 6mm earth cable. * Terminate secondary cable and earth cable in light base. | |  |  | |  |  |
| Task number 5: ONCE EPOXY HAS CURED:   * Reposition light fitting into new base. * Install new M10 Nuts. * Torque nuts to 40Nm/Paint | |  |  | |  |  |
| Task number 6: RE-INSTALLATION WORKS:  - Light fitting to be check once circuit is re-energised. | |  |  | |  |  |
| Task number 7: RE-INSTALLATION:   * Clean pavement area. * Pack all equipment away. * Demobilize * FOD Check | |  |  | |  |  |

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| Base Canister Installation | | | | | | |
|  | Fitting ID: | | |  | | |
| Light Type: | | |  | | |
| Work Area: | | |  | | |
| Drawing Number: | | |  | | |
| Task Details | | Signature: | Date: | | Name: | Status: |
| Task number 1: PRE-WORKS   * Surveyor to mark out base canister position and aim point (by Fulton Hogan). * Excavation/Coring Permit to be completed and approved for works (by Fulton Hogan). | |  |  | |  |  |
| Task number 2: CIVIL WORKS   * Excavate aggregate (FCR or RCC) to a depth of 700mmx700mmx200mm as per IFC drawings. * Ensure subsoil is protected where required. | |  |  | |  |  |
| Task number 3: CIVIL WORKS - INSTALLATION OF BASE CANISTER SECTION:   * Place circular steel reinforcement mesh and reo cage into the formation excavated area on chairs as required to provide 100mm cover below reinforcement. * Install the base can housing and accompanying jig. Ensuring positioned correctly to allow for correct spacing between surfaces and edge of concrete (and surfaces to reo cage) * Ensure the Base can set at correct height and tolerances in accordance with specification | |  |  | |  |  |
| Task number 4: CIVIL WORKS   * Ensure all conduits are positioned into canister and are sealed * Connect the subsoil drain conduit to the base canister (and sealed) as per spec (where required) | |  |  | |  |  |
| Task number 5: CIVIL WORKS - BEFORE CONCRETING:   * Survey check of the level, angle and position of base can and ducting (By Fulton Hogan) * Ensure canister and jig is adequately weighted and positioned to prevent movement during pouring | |  |  | |  |  |
| Task number 6: CIVIL WORKS - CONCRETE POUR:   * Backfill with 5MPa Lean Mix Concrete. As per specification and IFC drawings. * Concrete shall be backfilled until the foundation thickness is min. 400mm and there is 50mm cover over conduits. * Ensuring concrete vibrators are used to remove all air voids throughout pouring. * Ensure particular care is taken while pouring to prevent movement of the base canister, jig, … | |  |  | |  |  |
| Task number 7: ONCE CONCRETE HAS CURED  - Survey to confirm base canister has been installed as per specification (By Fulton Hogan). | |  |  | |  |  |
| Task number 8: ONCE CONCRETE HAS CURED   * Ensure jigs are removed and canister cleaned of any concrete * Ensure surrounding sub-base is clean of any concrete * Ensure mud-plate is installed (and sealed) and bolts torqued/painted to 40NM | |  |  | |  |  |
| Task number 9: ONCE INSTALLATION OF THE BASE IS COMPLETE:   * Clean pavement area. * Pack all equipment away. * Demobilize * FOD Check | |  |  | |  |  |

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| Top Canister Installation | | | | | | |
|  | Fitting ID: | | |  | | |
| Light Type: | | |  | | |
| Work Area: | | |  | | |
| Drawing Number: | | |  | | |
| Task Details | | Signature: | Date: | | Name: | Status: |
| Task number 1: PRE-WORKS   * Surveyor to mark out top canister position and aiming points (by Fulton Hogan). * Excavation/Coring Permit to be completed and approved for works (by Fulton Hogan). | |  |  | |  |  |
| Task number 2: LIGHT BASE INSTALL:   * Pilot core (150mm diameter) down to locate base canister mud-plate and establish the center of the canister. * Ensure final larger core is centered off the middle of the canister (approx. 356mm core) | |  |  | |  |  |
| Task number 3: LIGHT BASE INSTALL:   * Install the top canister section onto the base canister section, no. of spacer rings as required, and dam ring to match with the pavement finished level. As per the specification and IFC drawings. * Ensuring no more than 3 nos. of spacer rings with a total thickness of 25mm shall be installed between the top and bottom section. * Ensure the no. and size shims used are recorded (In MAPSES) | |  |  | |  |  |
| Task number 4: LIGHT BASE INSTALL:  - Ensure all bolts are tightened to the manufacturer's recommended torque value using calibrated torque wrench. 40Nm/paint. | |  |  | |  |  |
| Task number 5: LIGHT BASE INSTALL:  - Pour epoxy around canister as per manufacter's recommendation and IFC drawings. | |  |  | |  |  |
| Task number 6: AFTER EPOXY HAS CURED:   * Position adaptor plate and blanking plate into new base * Install new M10 Nut and washers. * Torque nuts to 40Nm and paint | |  |  | |  |  |
| Task number 7: ONCE INSTALLATION OF THE BASE IS COMPLETE:   * Clean pavement area. * Pack all equipment away. * Demobilize * FOD Check | |  |  | |  |  |

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|  | | INSPECTION AND TEST PLAN  Installation of Inset Light Fittings | | | | | Page | 1 of 2 |
| Issue Date | 30/03/2024 |
| Revision | 1 |
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| REPORT DETAILS | Date Completed |  | | Drawing References | ZULU-BECA-024-DWG | | | |
| Project | Taxiway Zulu 2.0 | | Sheet Completed by |  | | | |
| Location on Site |  | | | | | | |
|  | | | | | | | | |
| WORK DETAILS | | | | Legend | * yes **✗** no NA not applicable | | | |
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| LIGHT FITTING INSTALLATION | | | | | | | | Notes |
| Light no | Light Labelled | Correct Orientation | Light Fitting Torqued to manufacturer's specfication | Light Fitting Details (Eg. Type GG W Bi- Direct etc.) | Sec Cable Plugged into Light Fitting | Can Cleaned out | Light Programmed / Verified on Circuit Monitor |
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|  | | INSPECTION AND TEST PLAN  Installation of Inset Light Fittings | | | | | Page | 2 of 2 |
| Issue Date | 30/03/2024 |
| Revision | 1 |
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| WORK DETAILS CONTINUED | | | | Legend | * yes **✗** no NA not applicable | | | |
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| LIGHT FITTING INSTALLATION | | | | | | | | Notes |
| Light no | Light Labelled | Correct Orientation | Light Fitting Torqued to manufacturer's specfication | Light Fitting Details (Eg. Type GG W Bi-Direct etc.) | Sec Cable Plugged into Light Fitting | Can Cleaned out | Light Programmed / Verified on Circuit Monitor |
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|  | | | | INSPECTION AND TEST PLAN  Installation of Series Isolating Transformer (SIT) and Cable Jointing | | | | | | | Page | 1 of 2 |
| Issue Date | 30/03/2024 |
| Revision | 1 |
|  | | | | | | | | | | | | |
| REPORT DETAILS | | Date Completed | |  | | | | Drawing References | ZULU-BECA-024-DWG | | | |
| Project | | Taxiway Zulu 2.0 | | | | Sheet Completed by |  | | | |
| Location on Site | |  | | | | | | | | |
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| WORK DETAILS | | | | | | | | Legend | * yes **✗** no NA not applicable | | | |
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| TERMINATION OF ELECTRICAL CABLES | | | | | | | INSTALLATION OF SERIES ISOLATING TRANSFORMER AND ACCESSORIES | | PRIMARY / SECONDARY LABELLING | | | NOTES |
| Pit / Deep Base Can No. | Light No | Circuit No. | Plugs terminated to Primary Cable for  SIT (2x) | Record Installed SIT Type (Watts) | SIT Plugged in and Heatshrink | 6mm Earth Cable installed to SIT | Secondary Cable for SIT Terminated (If applicable) | Primary Cables Labelled with Circuit Number | Secondary Cable Labelled with Light  Number | Tidy Cables (Cable- tie Slack Cables) | New Pit Cleaned (If applicable) |
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|  | | | | INSPECTION AND TEST PLAN  Installation of Series Isolating Transformer (SIT) and Cable Jointing | | | | | | | Page | 2 of 2 |
| Issue Date | 30/03/2024 |
| Revision | 1 |
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| WORK DETAILS | | | | | | | | Legend | * yes **✗** no NA not applicable | | | |
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| TERMINATION OF PRIMARY AND SECONDARY CABLES | | | | | | | INSTALLATION OF SERIES ISOLATING TRANSFORMER AND ACCESSORIES | | PRIMARY / SECONDARY LABELLING | | | NOTES |
| Pit / Deep Base Can No. | Light No | Circuit No. | Plugs terminated to Primary Cable for SIT (2x) | Record Installed SIT Type (Watts) | SIT Plugged in and Heatshrink | 6mm Earth Cable installed to SIT | Secondary Cable for SIT Terminated (If applicable) | Primary Cables Labelled with Circuit Number | Secondary Cable Labelled with Light Number | Tidy Cables (Cable- tie Slack Cables) | New Pit Cleaned (If applicable) |
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