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|  | **Inspection and Test Plan - Control and Supervision of the Works** | | | | **Doc ID:** FH-ZU2-QU-ITP027  **REV:** 0 |
| **Client**: Melbourne Airport | | **Contract No:** CP14038-01 | | **Prepared By:** Patrick Croagh | |
| **Project:** Taxiway Zulu Program | | | **Reviewed By:** Giuliano Follacchio | | **Date:** 7/5/24 |
| **Construction Process:** AGL Cabling | | | **Approved By:** Giuliano Follacchio | | **Date:** 8/5/24 |
| **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  Principal’s Representative  Surveyor  Foreman | **Checked by:** | | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Subcontractor** | **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 | Existing service location | Prior to Start | Prior to installing any fittings, location of all existing services to be identified and marked onsite.  Services located in the works area to be proven. | SWMS | Verify | APAM  Excavation Permit | HP\* | Project Engineer/ Site Supervisor |  |  |  |  |
|  |  |  | **HOLD POINT** | ZULU- BECA-001- SPC-00003  cl. 5.5.1  ITP025 – AGL |  |  |  |  |  |  |  |  |
| 1.4 | Cable route | Each Lot | Primary cabling route installed as per path shown in construction drawings (and/or approved markup).  See relevant lot from ITP 025 – AGL | Verify | This ITP signed  Aconex reference | **HP** | Project Engineer  / **Beca** |
|  |  |  | Conduit Installation for cable route. |  |  |  |  |

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|  | **Inspection and Test Plan - Control and Supervision of the Works** | | | | **Doc ID:** FH-ZU2-QU-ITP027  **REV:** 0 |
| **Client**: Melbourne Airport | | **Contract No:** CP14038-01 | | **Prepared By:** Patrick Croagh | |
| **Project:** Taxiway Zulu Program | | | **Reviewed By:** Giuliano Follacchio | | **Date:** 7/5/24 |
| **Construction Process:** AGL Cabling | | | **Approved By:** Giuliano Follacchio | | **Date:** 8/5/24 |
| **Specifications:** ZULU-BECA-001-SPC-00003 | | | | | |
| **Structure / Component:** AGL | | | | | |

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| **Item No.** | **Task/Activity Description** | **Inspection/Test** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility**  Project Engineer  Principal’s Representative  Surveyor  Foreman | **Checked by:** | | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Subcontractor** | **Beca** | **FH** | **Date** |
|  |  |  |  | Conduit Installation |  |  |  |  |  |  |  |  |
| **2.0** | **Material / Equipment Approvals** | | | | | | | | | | | |
| 2.1 | Primary cable | Prior to Start | Primary cables shall be:   * 6mm2 cable with black polyethylene jacket and copper tape screen * Rated for 5000V * 7 Strands   or approved alternative. | ZULU- BECA-001- SPC-00003  cl. 4.2.1 | Aconex | Datasheet | HP\* | Project Engineer |  |  |  |  |
| 2.2 | Secondary cable | Prior to Start | Secondary cables shall be:   * Min 4mm2 cable with black nylon jacket. * Rated for 600V * 56 strands   or approved alternative. | ZULU- BECA-001- SPC-00003  cl. 4.2.2 | Aconex | Datasheet | HP\* | Project Engineer |  |  |  |  |
| 2.3 | Cable connectors | Prior to Start | Plug and sockets shall be further sealed by the application of double lapped layer of self-amalgamating tape protected with a double layer of PVC insulation tape.  Field attached plug and socket connections shall be constructed in accordance with the manufacturer’s instructions. | ZULU- BECA-001- SPC-00003  cl. 4.3.3 | Aconex | Datasheet | HP\* | Project Engineer |  |  |  |  |

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| **Client**: Melbourne Airport | | **Contract No:** CP14038-01 | | **Prepared By:** Patrick Croagh | |
| **Project:** Taxiway Zulu Program | | | **Reviewed By:** Giuliano Follacchio | | **Date:** 7/5/24 |
| **Construction Process:** AGL Cabling | | | **Approved By:** Giuliano Follacchio | | **Date:** 8/5/24 |
| **Specifications:** ZULU-BECA-001-SPC-00003 | | | | | |
| **Structure / Component:** AGL | | | | | |

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| **Item No.** | **Task/Activity Description** | **Inspection/Test** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility**  Project Engineer  Principal’s Representative  Surveyor  Foreman | **Checked by:** | | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Subcontractor** | **Beca** | **FH** | **Date** |
| 2.4 | Series isolation transformers | Prior to Start | New SITS shall be:   * Fully encapsulated synthetic rubber watertight (IP68) * 6.6 Amps rating * Minimum 600 mm long primary tail/1200mm long secondary tail | ZULU- BECA-001- SPC-00003  cl. 4.3 | Aconex | Datasheet | HP\* | Project Engineer |  |  |  |  |
| **3.0** | **Cable Installation** | | | | | | | | | | | |
| 3.1 | Primary cabling connections | Each Lot | Underground primary cable joints are only to be made where the cable length exceeds the maximum cable drum length or jointed to existing cabling. These joints shall only be made in pits. The joint shall be waterproof and shall allow the jointed cable to be installed within the pits without causing damage or undue strain on the joint.  Use only approved plug and sockets for joints in primary cables. Primary cable must be jointed to the primary cable tails of SITs using approved cable jointing kits.  Plug and socket connections shall be  constructed in accordance with the manufacturer’s instructions paying | ZULU- BECA-001- SPC-00003  cl. 5.5.1 | Verify | This ITP signed | IP | Project Engineer  / Site Supervisor |  |  |  |  |

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|  | **Inspection and Test Plan - Control and Supervision of the Works** | | | | **Doc ID:** FH-ZU2-QU-ITP027  **REV:** 0 |
| **Client**: Melbourne Airport | | **Contract No:** CP14038-01 | | **Prepared By:** Patrick Croagh | |
| **Project:** Taxiway Zulu Program | | | **Reviewed By:** Giuliano Follacchio | | **Date:** 7/5/24 |
| **Construction Process:** AGL Cabling | | | **Approved By:** Giuliano Follacchio | | **Date:** 8/5/24 |
| **Specifications:** ZULU-BECA-001-SPC-00003 | | | | | |
| **Structure / Component:** AGL | | | | | |

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| **Item No.** | **Task/Activity Description** | **Inspection/Test** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility**  Project Engineer  Principal’s Representative  Surveyor  Foreman | **Checked by:** | | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Subcontractor** | **Beca** | **FH** | **Date** |
|  |  |  | particular attention to the screen continuity joint and ensuring the rubber housing and insulating silicone remains  free from moisture, dirt and debris. |  |  |  |  |  |  |  |  |  |
| 3.2 | Secondary cabling connections | Each Lot | Individual secondary cables shall be provided for each lamp contained within individual lights. The secondary cable shall be installed in a single, unjointed length from the SIT to the AGL light.  A secondary cable that shares a common slot shall not be installed under any light base. Any joints within the slot shall be made utilising crimped links “staggered” and be installed external to the light base. | ZULU- BECA-001- SPC-00003  cl. 5.5.3 | Verify | This ITP signed | IP | Project Engineer/ Site Supervisor |  |  |  |  |
| 3.3 | Secondary slotting | Each Lot | Pavement shall be saw-cut to specified depth and thickness and slots cleaned/free from debris. | ZULU- BECA-001- SPC-00003  cl. 4.5 | Verify | This ITP signed  Avionics Secondary Slotting and Sealing checklist | IP | Project Engineer  / Site Supervisor |  |  |  |  |

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|  | **Inspection and Test Plan - Control and Supervision of the Works** | | | | **Doc ID:** FH-ZU2-QU-ITP027  **REV:** 0 |
| **Client**: Melbourne Airport | | **Contract No:** CP14038-01 | | **Prepared By:** Patrick Croagh | |
| **Project:** Taxiway Zulu Program | | | **Reviewed By:** Giuliano Follacchio | | **Date:** 7/5/24 |
| **Construction Process:** AGL Cabling | | | **Approved By:** Giuliano Follacchio | | **Date:** 8/5/24 |
| **Specifications:** ZULU-BECA-001-SPC-00003 | | | | | |
| **Structure / Component:** AGL | | | | | |

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| **Item No.** | **Task/Activity Description** | **Inspection/Test** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility**  Project Engineer  Principal’s Representative  Surveyor  Foreman | **Checked by:** | | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Subcontractor** | **Beca** | **FH** | **Date** |
| 3.4 | Max conduit capacity | Each Lot | If APAM approve three or more cables enclosed in conduits and/or ducts, the total cross sectional area of the conductors must not exceed 40% of the internal area of the respective conduit and/or wiring duct as recommended in AS/NZS 3000 for short distances without bends.  No more than 10 primary cables shall be installed in a conduit | ZULU- BECA-001- SPC-00003  cl. 4.2.3 | Verify | This ITP signed | IP | Project Engineer  / Site Supervisor |  |  |  |  |
| 3.5 | Secondary sealing | Each Lot | Backing rod shall be installed on top of the secondary cable, followed by flexible sealant:   * Dowsil 888 to be used in concrete expansion joints. * Dowsil 890SL to be used in asphalt slots. | ZULU- BECA-001- SPC-00003  cl. 4.5 | Verify | This ITP signed  Avionics Secondary Slotting and Sealing checklist | IP | Project Engineer  / Site Supervisor |  |  |  |  |
| **4.0** | **General Works** | | | | | | | | | | | |
| 4.1 | Protection of existing cabling | Each Lot | Where the crossing of existing secondary cables cannot be avoided, the existing secondary cables shall be reinstated and made good. | ZULU- BECA-001- SPC-00003  cl. 5.5.3 | Verify | This ITP signed | IP | Project Engineer  / Site Supervisor |  |  |  |  |

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| **Client**: Melbourne Airport | | **Contract No:** CP14038-01 | | **Prepared By:** Patrick Croagh | |
| **Project:** Taxiway Zulu Program | | | **Reviewed By:** Giuliano Follacchio | | **Date:** 7/5/24 |
| **Construction Process:** AGL Cabling | | | **Approved By:** Giuliano Follacchio | | **Date:** 8/5/24 |
| **Specifications:** ZULU-BECA-001-SPC-00003 | | | | | |
| **Structure / Component:** AGL | | | | | |

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| **Item No.** | **Task/Activity Description** | **Inspection/Test** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility**  Project Engineer  Principal’s Representative  Surveyor  Foreman | **Checked by:** | | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Subcontractor** | **Beca** | **FH** | **Date** |
| 4.2 | Slack | Each Lot | Primary Cabling – a single minimum 500mm diameter loop shall be made in each primary cable where they pass through a pit other than a SIT pit. | ZULU- BECA-001- SPC-00003  cl. 5.5 | Verify | This ITP signed  ADBSG  Installation of Primary Cable checklist | IP | Project Engineer  / Site Supervisor |  |  |  |  |
| 4.3 | SIT pit earthing rod | Each Lot | Earthing inspection pits shall be provided with earth electrodes of sufficient length to achieve the required resistivity of less than 6 ohms. Earthing electrodes shall be copped clad stainless-steel rods of minimum size 13mm diameter.  The earth wire size shall be 16 mm2 PVC insulated copper, other than where equipment is wired in PVC/PVC cable in which case the earth continuity conductor may be enclosed within the  PVC/PVC sheath. | ZULU- BECA-001- SPC-00003  cl. 6 | Verify | This ITP signed | IP | Project Engineer  / Site Supervisor |  |  |  |  |
| 4.5 | Identification of configuration | Each Lot | Label all cables for new and existing circuits remaining in service at every access location such as pits, duct crossings, and ALER. Position the labels such that they can be read without  displacement of the cables. | ZULU- BECA-001- SPC-00003  cl. 7.2 | Visual | This ITP signed | IP | Project Engineer |  |  |  |  |

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|  | **Inspection and Test Plan - Control and Supervision of the Works** | | | | **Doc ID:** FH-ZU2-QU-ITP027  **REV:** 0 |
| **Client**: Melbourne Airport | | **Contract No:** CP14038-01 | | **Prepared By:** Patrick Croagh | |
| **Project:** Taxiway Zulu Program | | | **Reviewed By:** Giuliano Follacchio | | **Date:** 7/5/24 |
| **Construction Process:** AGL Cabling | | | **Approved By:** Giuliano Follacchio | | **Date:** 8/5/24 |
| **Specifications:** ZULU-BECA-001-SPC-00003 | | | | | |
| **Structure / Component:** AGL | | | | | |

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| **Item No.** | **Task/Activity Description** | **Inspection/Test** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility**  Project Engineer  Principal’s Representative  Surveyor  Foreman | **Checked by:** | | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Subcontractor** | **Beca** | **FH** | **Date** |
|  |  |  | In transformer pits serving multiple taxiway lights, the Contractor shall label each secondary cable at the transformer connection to indicate the designation of  the associated light connected. |  |  |  |  |  |  |  |  |  |
| **5.0** | **Post Construction** | | | | | | | | | | | |
| 5.1 | As-built Documentation | Prior to practical Completion | Submission of as built report showing cabling route submitted to the Principal’s Representative prior to practical  completion. | FH QMP | Verify | As-built survey report | SCP | 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 Principal’s Representative | **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 Principal’s Representative | **SCP** | Survey conformance point | A qualified surveyor to check product/section/structure and report |
| **AP** | Approval Point | Written or verbal approval given by the Principal’s Representative |  | | |

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|  | **Inspection and Test Plan - Control and Supervision of the Works** | | | | **Doc ID:** FH-ZU2-QU-ITP027  **REV:** 0 |
| **Client**: Melbourne Airport | | **Contract No:** CP14038-01 | | **Prepared By:** Patrick Croagh | |
| **Project:** Taxiway Zulu Program | | | **Reviewed By:** Giuliano Follacchio | | **Date:** 7/5/24 |
| **Construction Process:** AGL Cabling | | | **Approved By:** Giuliano Follacchio | | **Date:** 8/5/24 |
| **Specifications:** ZULU-BECA-001-SPC-00003 | | | | | |
| **Structure / Component:** AGL | | | | | |

**Notes**

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| Secondary Slotting and Sealing | | | | | | |
|  | Conduit ID: | | |  | | |
| Starting asset: | | |  | | |
| finishing asset: | | |  | | |
|  | | |  | | |
| Task Details | | Signature: | Date: | | Name: | Status: |
| Task number 1: PRE-WORKS   * Ensure isolation of all services in area (if required). * Ensuring Slot routes are marked out (By Fulton Hogan). * Permit to slotting, reviewed and approved for works (By Fulton Hogan). | |  |  | |  |  |
| Task number 2: CIVIL-WORKS   * Saw-cut through pavement to specified depth and thickness as per requirment. * Clean slots with high pressure hose and ensure that slot and surrounding pavement is clear from debris. * Clean area, FOD Check and demobilize. | |  |  | |  |  |
| Task number 3: PRE-WORKS - BEFORE SEALING:  - Ensure cables are all installed correctly and all joints complete (By ADB Safegate). | |  |  | |  |  |
| Task number 4: SEALING WORKS  - Install new backing rod foam on top of the secondary cable. Ensure correct size is used for the size of the slot. | |  |  | |  |  |
| Task number 5: SEALING WORKS  - Install silicone joint sealant as outlined in the IFC drawings. Dowsil 888 to be used for expansion joints in concrete and SL980 to be used for asphalt slots. Ensure that the sealant has been installed in a consistent fashion along the slot and at an adequate height in relation to the top of the slot. | |  |  | |  |  |
| Task number 6: SEALING WORKS   * Clean pavement area. * Pack all equipment away. * Demobilize * FOD Check | |  |  | |  |  |

Asset:

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|  | | | INSPECTION AND TEST PLAN  Installation of Primary Cable & Draw Rope | | | | | | 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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| Installation of Primary Cable | | | | | | | | Earth Cable | | NOTES (Include pits where service loops have been installed) | |
| Circuit Number | From Pit No / Light No. | to Pit No / Light No. | Cable Drum ID | Check Draw Rope Installed Prior | Qty of Cables Installed | Meterage | 500mm Spare Cable at each Change of Direction | 10mm Earth Cable Installed to each Deep Base Can | Cable Ends Taped Up (If Applic.) |
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|  | | | INSPECTION AND TEST PLAN  Installation of Primary Cable & Draw Rope | | | | | | Page | | 2 of 2 |
| Issue Date | | 30/03/2024 |
| Revision | | 1 |
|  | | | | | | | | | | | |
| WORK DETAILS | | | | | | | Legend | * yes **✗** no NA not applicable | | | |
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| PRIMARY CABLE INSTALLATION | | | | | | | DRAW ROPE | | | NOTES | |
| Circuit Number | From Pit No / Light No. | to Pit No / Light No. | Cable Drum ID | Check Draw Rope Installed Prior | Qty of Cables Installed | Meterage | 500mm Spare Cable at each Change of Direction | 10mm Earth Cable Installed to each Deep Base Can | Cable Ends Taped Up (If Applic.) |
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|  | | | INSPECTION AND TEST PLAN - 107  Installation of Secondary Cable | | | | | Page | 1 of 2 |
| Issue Date | 10/05/2024 |
| Revision | 2 |
|  | | | | | | | | | |
| 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 | | |
|  | | | | | | | | | |
| INSTALLATION OF SECONDARY CABLE | | | | | | | | NOTES | |
| From Pit No | to Light No / MAG No. | Cable Drum ID | Length of Cable Installed (Total) | Min. 2000mm Secondary Cable in SIT Pit | Min. 300mm Secondary Cable within shallow base | Secondary Cable Terminated External to the Base | Secondary Cable Terminated in Pit (If Applic.) |
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|  | | | INSPECTION AND TEST PLAN  Installation of Secondary Cable | | | | | Page | 2 of 2 |
| Issue Date | 10/05/2024 |
| Revision | 2 |
|  | | | | | | | | | |
| WORK DETAILS CONTINUED | | | | | | Legend | * yes **✗** no NA not applicable | | |
|  | | | | | | | | | |
| INSTALLATION OF SECONDARY CABLE | | | | | | | | NOTES | |
| From Pit No | to Light No / MAG No. | Cable Drum ID | Length of Cable Installed (Total) | Min. 2000mm Secondary Cable in SIT Pit | Min. 300mm Secondary Cable within shallow base | Secondary Cable Terminated External to the Base | Secondary Cable Terminated in Pit (If Applic.) |
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|  | | | INSPECTION AND TEST PLAN  Installation of Secondary Cable (Saw Cuts) (Existing Pavements) | | | | | | 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 |  | | | | | | |
|  | | | | | | | | | | |
| WORK DETAILS | | | | | | | Legend | * yes **✗** no NA not applicable | | |
|  | | | | | | | | | | |
| INSTALLATION OF SECONDARY CABLE | | | | | | | | | NOTES | |
| Pit No | Light No | Cable Drum ID | Depth of slots  checked | Length of Cable  Installed (Total) | Min. 2000mm Sec.  Cable in Prim. Pit | Min. 300mm Sec. Cable  within base | Secondary Cable  Terminated In Base | Secondary Cable Terminated in Pit (If  Applic.) |
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|  | | | INSPECTION AND TEST PLAN  Installation of Secondary Cable (Saw Cuts) (Existing Pavements) | | | | | | Page | 2 of 2 |
| Issue Date | 30/03/2024 |
| Revision | 1 |
|  | | | | | | | | | | |
| WORK DETAILS CONTINUED | | | | | | |  |  | | |
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| INSTALLATION OF SECONDARY CABLE | | | | | | | | | NOTES | |
| Pit No | Light No | Cable Drum ID | Depth of slots  checked | Length of Cable  Installed (Total) | Min. 2000mm Sec.  Cable in Prim. Pit | Min. 300mm Sec. Cable  within base | Secondary Cable  Terminated In Base | Secondary Cable Terminated in Pit (If  Applic.) |
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