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|  | **Inspection and Test Plan - Control and Supervision of the Works** | | | | **Doc ID:** FH-ZU2-QU-ITP028  **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 MAG Signs | | | **Approved By:** Giuliano Follacchio | | **Date:** 12/4/24 |
| **Specifications:** ZULU-BECA-001-SPC-00003 | | | | | |
| **Structure / Component:** AGL | | | | | |

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| sLot 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  Superintend ent  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 | 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.  Any deviation from the above suppliers shall be submitted to the Contract Administrator for approval prior to ordering. | ZULU- BECA-001- SPC-00003  cl 2.3 | Verify | Aconex reference(s) | **HP\*** | Project Engineer |  |  |  |  |

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| **2.0** | **Installation of MAG Sign Footing** | | | | | | | | | | | |
|  |  |  | Position of rectangular base to be as per |  |  | This ITP signed  DCP test result  Concrete test certificate  Avionics Installation of New MAG Slab and Sign checklist |  |  |  |  |  |  |
|  |  |  | set out coordinated listed in MAG |  |  |  |  |
|  |  |  | schedule. |  |  |  |  |
|  |  |  | 150mm thick class 2 crushed rock base |  |  |  |  |
|  |  |  | layer compacted to 98% STD on |  |  |  |  |
|  |  |  | prepared subgrade. |  |  |  |  |
|  |  |  | Subgrade Bearing strength of 130kPA |  |  |  |  |
|  |  |  | confirmed by a qualified geotechnical | ZULU- |  |  |  |
| 2.1 | MAG Sign Base | Each lot | engineer on behalf of the contractor before placing membrane, reinforcement or concrete. | BECA-023- DWG- 07502 | Visual Inspection | **IP** | Project Engineer |
|  |  |  | 50mm blinding concrete between |  |  |  |  |
|  |  |  | subgrade and foundation. |  |  |  |  |
|  |  |  | Slab thickness to be 300mm for all |  |  |  |  |
|  |  |  | H<900mm signs, min. 32 MPa concrete. |  |  |  |  |
|  |  |  | Footing to be placed flush with FSL when |  |  |  |  |
|  |  |  | placed in pavement surfaced areas. |  |  |  |  |

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|  |  |  | N12-200 top and bottom reinforcing bars with minimum 50mm cover from edge of concrete.  Sign mounting brackets and frangible coupling as per manufacturers guidelines |  |  |  |  |  |  |  |  |  |
| **3.0** | **Installation of MAG Sign** | | | | | | | | | | | |
| 3.1 | 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 Documentation | **IP** | Project Engineer |  |  |  |  |
|  |  |  | 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. |  |  | This ITP signed |  |  |
| 3.2 | MAG Sign Face | Each lot | Bird spikes provided with MAGS  Chain tether installed on side further from taxiway and installed as per | ZULU- BECA-001- SPC-00003  cl 4.7.1 | Verify | Avionics Installation of New MAG Slab and Sign  checklist | **IP** | Project Engineer |
|  |  |  | manufacturer’s recommendations |  |  |  |  |  |

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| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection / Test Method** | **Record of conformity** | **Subcontractor** | **Beca** | **FH** | **Date** |
|  |  |  | Where multiple panels are required, the inscription shall appear continuous over 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 |  | | |

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**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. | |  |  | |  |  |

Asset:

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