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|  | **Inspection and Test Plan - Control and Supervision of the Works** | | | | **Doc ID: FH-ZU2- QU-ITP031**  **Rev: 0** | |
| **Client:** APAM (MELBOURNE AIRPORT) | | **Contract No:** CP14038 | | **Prepared By:** Jihad Barbar | | |
| **Project:** Taxiway Zulu 2.0 | | | **Reviewed By:** Jamal Khodr | | | **Date:** 18/09/24 |
| **Construction Process:** ALER 3 Onsite Concrete | | | **Approved By:** Turker Arslan | | | **Date:** 25/09/24 |
| **Specifications:** Specifications as per Drawings | | | | | | |
| **Structure / Component:** Concrete Footings, Slabs & Aprons | | | | | | |

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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** FH Engineer Superintendent Surveyor  Foreman | **Checked by:** | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection**  **/ Test Method** | **Record of conformity** | **Fulton Hogan** | **Beca** | **Date** |
| **1.0** | **Preliminaries** | | | | | | | | | | |
| 1.1 | The current revision drawings are being used including subcontractors copy. | Prior to Start | Current revision drawing is being used (including the subcontractors copy). Current revision to be obtained via Aconex or ACC | Drawings and drawing registers | Verify | Up to date drawing sets and this ITP signed | HP\* | FH Engineer |  |  |  |
| 1.2 | Implementation of all measures and controls | Prior to Start | All necessary measures and controls being implemented, that is CEMP, TMP, SWMS, & WP | CEMP, TMP, SWMS, & WP | Verify | Site and office Inspection | HP\* | FH Engineer |  |  |  |
| 1.3 | Excavation Permit | Prior to Start | Excavation Permit issued by APAM obtained prior to any excavation on site. | APAM  Excavation Permit | Verify | Proof of & permit ITP sign | HP\* | FH Engineer |  |  |  |
| **2.0** | **Supply of Materials** | | | | | | | | | | |
| 2.1 | Reinforcement | Pre- commencem ent | **HOLD POINT**  Test Certificates demonstrating compliance of the reinforcement with the requirements of AS 3600 | Drawings and Specification | Verify | Aconex Reference | **HP** | FH Engineer / **Principals Representative** |  |  |  |
| 2.2 | Concrete Mix Designs | Each Lot | **HOLD POINT**  Mix design to be submitted to contract administrator for review and acceptance. | Drawings  ZULU-BECA- 014-DWG-  00201 | Verify | Aconex Reference | **HP** | FH Engineer / **Principals Representative** |  |  |  |

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|  |  |  |  | ZULU-BECA- 030-DWG-  20001 |  |  |  |  |  |  |  |
| 2.3 | Review of Curing Regime | Each Lot | **HOLD POINT**  Concrete curing regime to be reviewed and approved by the contract administrator prior to use | ZULU-BECA- 030-DWG-  20001 | Verify | Aconex Reference | **HP** | FH Engineer / **Principals Representative** |  |  |  |
| **3.0** | **Construction\Erection of Formwork** | | | | | | | | | | |
| 3.1 | Setout | Each Lot | Setout completed and conformance with Beca IFC Drawings. | Drawings | Verify | Survey Report | SCP | FH Engineer Surveyor |  |  |  |
| 3.2 | Excavate | Each Lot | **WITNESS POINT**  Excavation depth shall be as per specified or as shown on Drawings to accommodate structures.  Principals representative to be notified for at the completion of excavations for inspection prior to any blinding being poured. | Specifications as per Drawings | Verify | This ITP signed | **WP** | FH Engineer |  |  |  |
| 3.3 | Confirm Ground | Each lot | **HOLD POINT**  Completion of excavation and inspection of subgrade materials.  No soft spots, unsuitable material. Confirm ground bearing pressure | Specifications as per Drawings | Verify | DCP Test Results (if required) | **HP** | FH Engineer |  |  |  |
| 3.4 | Concrete Sub-Base | Each Lot | Blinding layer is installed as per drawings | Drawings | Visual Inspecti on | This ITP Signed | **HP\*** | Site Engineer / Foreman |  |  |  |

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| 3.5 | Formwork | Each Lot | Formwork / Reverse Shall conform to shapes, lines, levels and dimensions of the concrete shown or indicated on the Drawings. | Specifications as per Drawings | Verify | This ITP Signed | IP | FH Engineer Surveyor |  |  |  |
| 3.6 | Penetrations/Cast in items | Each Lot | Penetrations/cast in items are present in the formwork. | Drawings | Verify | This ITP Signed | IP | FH Engineer Surveyor |  |  |  |
| **4.0** | **Reinforcement** | | | | | | | | | | |
| 4.1 | Reinforcement installation | Prior to concrete pour | Pre-Pour Checklist Completed:   * Position and spacing check and recorded. * Cover checked and recorded. * Reinforcing supports checked and recorded. * Laps at required length. * Penetrations/cast in items | Specifications and drawings | Verify | Pre-pour inspection List  CLA31A | IP  HP\* | FH Engineer |  |  |  |
| **5.0** | **Pre-pour Planning and Inspections and Placement (1st Pour)** | | | | | | | | | | |
| 5.1 | Pre-pour Inspection | Prior to concrete pour | **HOLD POINT**  Superintendent or Engineer to conduct pre-pour inspection prior to concrete pour  Principals representative to inspect formwork and steel fixing | Specifications and Drawings | Verify | Pre-pour inspection List  CLA31A | **HP** | FH Engineer / **Principals Representative** |  |  |  |
| 5.2 | Pour in-situ | Each Lot | Concrete shall be placed within 90mins from batching.  All concrete supplied for concrete structures shall be subject to | Specifications and drawings | Verify | This ITP signed | IP | FH Engineer |  |  |  |

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|  |  |  | project control testing in accordance with AS 1379. |  |  |  |  |  |  |  |  |
| 5.3 | Concrete Testing – Compressive Tests | Each Lot | Composite samples to be taken in accordance with AS 1012.1.  2 – 7 Day cylinder and 2 – 28 day cylinders to be taken.  Frequency of testing shall be one sample taken either every 50m3 or once per day, whichever yields a higher frequency. | Drawing 00201  Note 51.  AS 1012.1  AS 1012.9 | Verify | Concrete Testers Sheet/Results | **TP** | FH Engineer |  |  |  |
| 5.4 | Concrete Slump | Each Truck | Slump test is required for each load per day | Drawing 00201  Note 51. | Verify | Concrete Testers Sheet/Results | **TP** | FH Engineer |  |  |  |
| 5.5 | Finishing & Curing | Each Lot | Concrete to be vibrated to ensure compaction and air voids removed. Screed finish required on exposed surfaces.  Concrete shall be moist cured or coated by an approved curing compound for a period not less than seven days unless approved by the Superintendent. | Specifications and drawings | Verify | This Signed ITP | IP | FH Engineer |  |  |  |
| **6.0** | **Post Pour Details and Inspections** | | | | | | | | | | |
| 6.1 | Removal of Formwork | Each Lot | Forms shall remain and be maintained firmly in place until the concrete has attained the necessary strength to support its own weight. |  | Verify | This ITP signed | IP | FH Engineer |  |  |  |
| 6.2 | Review of Test Results | Each Lot | Review of 7 day and 28 day test certificates | Drawing 00201  Note 52. | Verify | Aconex Reference | **HP** | FH Engineer / **Principals Representative** |  |  |  |

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**Final Inspection**

On behalf of Fulton Hogan it is hereby certified that the Works represented by the items of work listed have been tested in accordance with the Project Quality Plan and conform in all respects with the requirements of the Contract.

**Print Name:**

**Position:**

**Signature:**

**Date:**

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**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**