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|  | **Inspection and Test Plan - Control and Supervision of the Works** | | | | **Doc ID: FH-ZU2-QU-ITP010**  **Rev: 0** | |
| **Client: Melbourne Airport (APAM)** | | **Contract No: CP14038** | | **Prepared By: Marianne Sales** | | |
| **Project:** Taxiway Zulu 2.0 Project | | | **Reviewed By: Jonathon Rock** | | | **28/05/2024** |
| **Construction Process:** Cement Treated Base (CTB) | | | **Approved By: Jonathon Rock** | | | **28/05/2024** |
| **Specifications:** Taxiway Zulu 2.0 Program Works Specification ZULU-BECA-001-SPC-00002[C01] | | | | | | |
| **Structure / Component:** Pavements | | | | | | |

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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** | **Checked by:** | | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **Principles Rep** | **Fulton Hogan** | **Other** | **Date** |
| **1.0** | **Preliminary Activities – Permits, Documentation, Approvals, Survey Documentation** | | | | | | | | | | | |
| 1.1 | The current revision drawings are being used including subcontractors copy. | Prior to works | Current revision drawing is being used including the subcontractors copy.  Current Revision to be obtained via Aconex. | Aconex | Visual inspection | This signed ITP | HP\* | Project/Site Engineer  Superintendent Foreman |  |  |  |  |
| 1.2 | Implementation of all measures and controls | Prior to works | All necessary measures and controls are being implemented, that is: PSP, EMP, TMP, SWMS & WP | PSP, EMP, TMP, SWMS  & WP | Visual inspection | This signed ITP | HP\* | Project/Site Engineer |  |  |  |  |
| **2.0** | **Cement Treated Base Documentation & Trial** | | | | | | | | | | | |
|  |  |  | CTB material and test results to be submitted to the |  |  |  |  |  |  |  |  |  |
|  |  |  | Principal’s Representative for review to ensure that | Spec cl. 5.4 |  |  |  |  |  |
| 2.1 | Submission of Mix Design | 21 days prior to works | specifications are met and are compliant, prior to the initial placement of the material.  Mix design results will include:   * Cement sample should include a CTB material within +/-0.5% of the specified | Spec cl. 5.5  AS 3972  VicRoads Class 2 | Verify | Approved Mix Design Report | **HP** | Project/Site Engineer  Principal’s Representative | Aconex: BecaCPL- GCOR- 000790 |
|  |  |  | cement content. | VicRoads |  |  |  |  |  |
|  |  |  | * Aggregates comply with either Section 4.4 | Class 3 |  |  |  |  |  |
|  |  |  | or VicRoads Class 2 or 3 material. |  |  |  |  |  |  |

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|  |  |  | * Cement shall be Portland Cement Type GP or Type GB complying with AS 3972. * 3% minimum Portland cement content by weight of the dry un-stabilised material. * Mean seven-day unconfined compressive strength of CTB to be a minimum of 5MPa and a maximum of 15MPa. No single samples are to be below 5MPa. * Water to be pot |  |  |  |  |  |  |  |  |  |
| 2.2 | Supply of Information on Materials Source | Prior to works | Principle Contractor to supply the Principal’s Representative with supply information regarding the source of the CTB material via Aconex.  Material information will include the material brand, material type, material supply source, and a supporting test certificate from a laboratory registered by NATA to prove material suitability for the Works. | Spec cl. 5.21.1  Spec cl. 5.21.1.1  AS3972 | Verify | Approved Supply of Information Material Source | **HP** | Project/Site Engineer  Principal’s Representative | Aconex: BecaCPL- GCOR- 000790 |  |  |  |
| 2.3 | Production and Construction Trial | Prior to works | Construction Trial for CTB mix to be undertaken by Contractor and reviewed by the Principal’s Representative.  Trial of CTB will be based on the first day of placement. Construction procedure to be reviewed and updated if there are any non-conformances associated with the initial trial.  The size of the trial area shall be a minimum of 3.5m wide and 50m in length. | Spec cl. 132  Spec cl. 5.6 | Verify | Approved Construction trial report | **HP** | Project/Site Engineer  Principal’s Representative |  |  |  |  |

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|  |  |  | The CTB trial area may form part of the completed works. |  |  |  |  |  |  |  |  |  |
| 2.4 | Placement of CTB  Methodology | Prior to works | Prior to placement of CTB the Principles Representative shall review this Work Method Statement for proposed methods of placement, compaction and curing | Spec cl 5.9 | Verify | Aconex Sign off | **HP** | Project/Site Engineer  Principal’s Representative | Aconex: BecaCPL- GCOR- 000810 |  |  | 24/0  5/20  24 |
| 2.5 | Provision of Material Samples | At Least 5 Days Prior to works | Principal Contractor to physically handover reference samples to Principal’s Representative of the approved CTB material. To be truly representative, the reference samples will be taken straight from the supplier of the material.  The reference samples shall be divided into two representative portions, with one being held by the Contractor and the second portion by the principal until completion of the Works. | Spec cl. 5.21.1.2 | Verify | Handover of Reference Samples and Aconex sign off | **HP** | Project/Site Engineer  Principal’s Representative |  |  |  |  |
| **3.0** | **Placement of Cement Treated Base** | | | | | | | | | | | |
| 3.1 | Subgrade, Basecourse Preparation | Each lot | Existing surface of subbase is maintained in compliance with tolerances on surface smoothness and level. The subbase is clean and clear of any foreign matter before the placing of the CTB.  Principal’s Representative will be notified 24 hours prior to the placement of CTB to allow the subbase | Spec cl. 5.7  Spec cl 5.9 | Visual Inspection | This signed ITP | HP\* | Foreman Site Engineer  Principal’s Representative |  |  |  |  |

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|  |  |  | to be inspected prior to the placement of the CTB. This will be recorded in ITP009 – Unbound Pavements.  Principles Representative to be notified of the intention to place CTB. |  |  |  |  |  |  |  |  |  |
| 3.2 | Layer Placement Parameters | Every Lot | Summary of Parameters for each Lot;   * A lot is defined as one layer placed in a single days production of uniform material * Max Layer is 200mm * Min Layer is 100mm * Final Surface Level +0mm, -10mm (excluding intermediate layers) * Shape: every 10m intervals, <7mm deviation over 3.5m straight edge (excluding intermediate layers) * Material is batched within 1% of OMC | Spec Clause 5.9 | Visual Inspection | This signed ITP | IP | Foreman Site Engineer  Principal’s |  |  |  |  |
| 3.3 | CTB Placement – Weather | Each lot | Weather to be check prior to placement, CTB shall not proceed when;   * Ambient temperature is below 5°C * Temperature is over 35°C * Heavy Rain fall is forecasted | Spec cl 5.18 | Visual Inspection | This signed ITP | HP\* | Foreman  Project/Site Engineer |  |  |  |  |
| 3.4 | CTB Placement – Checks | Each lot | During CTB placement Activities check;   * Placement starts on the high side or crown of the layer where practical | Spec cl. 5.9 AS1289.5.2.1 | Visual Inspection | This signed ITP | IP | Site Engineer Foreman |  |  |  |  |

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|  |  |  | * Material is spread in the direction of Taxiway across full width * Underlying layer is not disturbed during deliveries * Inspect Material for any contamination through placement activities * Adjoining layers are a clean face / vertical * Segregation does not occur * Placement to be completed within 120 minutes from time of batching and before concrete has obtained its initial set |  |  |  |  |  |  |  |  |  |
| 3.5 | CTB  Compaction – Checks | Each Lot | During Compaction check;   * Heavy smooth drum roller of 15t to 20t is used for initial compaction * Pneumatic roller of 27t will compact material for final consolidation. * A heavy smooth drum roller (in static mode) may also be used for final consolidation * Watercart present onsite for conditioning * Materials are trimmed to required shape and level | Cl 4.10 | Verify | This ITP signed | IP | Project/Site Engineer |  |  |  |  |
| 3.6 | Curing & Protection | Each Lot | Curing to commence as soon as CTB has been placed, compacted and trimmed. No plant (other than curing) to track across CTB for minimum 24 hours.  Curing to follow one of the below methods; | Spec cl. 5.15 | Verify | This ITP signed | HP\* | Foreman Project Engineer Site Engineer |  |  |  |  |

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|  |  |  | 1. Wet Method: This will involve a watercart lightly spraying the CTB surface for minimum 7 days. 2. Debonding Coat: The CTB will be covered with a bitumen curing compound. In locations of PCC, will be the C170 seal with 7mm aggregate. |  |  |  |  |  |  |  |  |  |
| 3.7 | Post Placement CTB Inspection | Every Lot | Prior to the application of the succeeding layer or installation of the de-bonding coat, CTB final surface is to be inspected with the Principle Representative | Spec cl. 5.9 | Verify | ITP signed | **HP** | Project/Site Engineer  Principal’s Representative |  |  |  |  |
| **4.0** | **Acceptance, Compliance, Controls and Quality Assurance** | | | | | | | | | | | |
|  | Field Dry Density | Each Lot One test every  500m2 (or  250T) or part thereof  Minimum 4 tests for Lots under 800m2 (or 400t)  Minimum 6 tests for Lots over 800m2 (or 400t) | Average of Specified Minimum Dry Density Ratio (SMDDR) of 97% of the Maximum Modified Dry Density   * Average Equals or Exceeds 96% with no individual result be less than 93%. The lot will be accepted. * Average Equals or exceeds 96% with a result being less than 93% - an additional 4 tests will be taken * Average is less than 94%, the lot will be rejected | Spec cl. 5.10  Spec cl 5.21.2.5 | Verify | This ITP signed  Test Report Attached | TP | Foreman Project Engineer Site Engineer |  |  |  |  |

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|  |  |  | - Average is in between 94% and 96% - an additional 4 tests will be taken |  |  |  |  |  |  |  |  |  |
|  | Moisture Tests | Each Lot One test every  500m2 (or  250T) or part thereof  Minimum 4 tests for Lots under 800m2 (or 400t)  Minimum 6 tests for Lots over 800m2 (or 400t) | Target Moisture content of +/-1% for information only. Production of CTB to be within 1% of OMC. | Spec cl 5.21.2.5 | Verify | This ITP signed  Test Report Attached | TP | Foreman Project Engineer Site Engineer |  |  |  |  |
| 4.1 | Strength Testing | Each Lot, divided into four approx. equal sub-lots | A total of 4 sub-lots will be taken as samples, with 2 being used for the 7-day strength testing, and the remaining being used for the 28-day strength testing. 28 day results are for information only.  The mean 7-day unconfined compressive strength of the CTB shall be a minimum of 5.0MPa and a maximum of 15.0MPa. No single sample shall be below 5.0 MPa. | Spec cl 5.11  Spec cl. 5.21.2.6  AS1012.9 AS5101.4 | Testing | This ITP signed Test results | TP | Project/Site Engineer |  |  |  |  |
| 4.2 | Process Control | Each Lot | CTB production and process control test results to be supplied to the Principles Representative | Spec cl. 5.21.2.1 | Verify | This ITP signed | IP | Project/Site Engineer |  |  |  |  |

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| 4.5 | CTB Layer Thickness | Once Every 30m2 | CTB layer thickness to be measured, recorded, and included in the Quality Assurance records.  No CTB layer thickness to be less than that shown on the drawings other than allowable construction tolerances | Spec cl. 5.21.5  Spec cl. 5.21.7 | Testing & verify | Test results & this ITP signed | IP SCP | Project/Site Engineer  Site Engineer |  |  |  |  |
| 4.6 | Quality Assurance Records | Each Lot | Provision of ITP test reports must be submitted within 60 days after the completion of the Works. Principal contractor to supply electronic copy of reports detailing the results of the quality control and testing undertaken.  Reports to be transmitted on Aconex and Aconex Reference to be quoted as Hold Point Sign off. | Spec cl. 5.21.3 | Submission of ITP reports | This signed ITP | **HP** | Project/Site Engineer  Principal’s Representative | Aconex Ref: |  |  |  |
| 4.7 | Survey As-Built Report | Each Lot | The surface level at the top of the final CTB layer shall not deviate from design level at the specified points by -10mm or +0mm.  Contractor to provide Survey Conformance report of completed CTB surface layers per Lot. | Spec cl. 5.17  Spec cl. 3.14.2 | Verify | Completed drawings, survey report, & this ITP signed | IP SCP | Surveyor Project Engineer |  |  |  |  |
|  | Surface Smoothness | Every Lot | Surface smoothness to be checked every 10m by placing a 3.5m long straight edged on the ground a checking any deviations over 7mm. Complete within 7 days of completion of each section. Document results. | Cl 5.17 | Verify | Report | TP | Project/Site Engineer |  |  |  |  |

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|  |  |  | Intermediate layers and shoulder pavements are not required to be checked. |  |  |  |  |  |  |  |  |  |
| 4.8 | Correction of Nonconforming Work | Each Lot (if required) | All CTB that do not meet all the specified requirements will be rejected by Contract Administrator. Materials to be removed full depth of the layer and reinstated, unless otherwise approved through the NCR process. | Spec cl. 5.21.4 | Verify | This Signed ITP | **HP** | Project/Site Engineer  Principal’s Representative | (if required) |  |  |  |
| **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: / /** | | | | | | | | | | | | | |

**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 |  | | |