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| Logo Fulton Hogan AUS_CMYK_150dpi | | **Inspection and Test Plan - Control and Supervision of the Works** | | | | | | | | | **Document #**  **ITP-004a** | |  |
| Revision : 02 | Date: 28/04/2022 | |
|  | | | | | | | | | | | | | |
| **Client:** | **Yarra Trams** |  | **Construction Process:** |  | Prepared by: | |  | Reviewed by : | |  | Approved by : |  |  |
| **Project:** | |  | ***Class 2 Base Course Placement*** |  | Name: | **Jack Wood** | | Name: | **Damon Bromwich** | | Name: | **Shaun Kent** |  |
| **Contract No:** | |  | **Specifications:** Yarra Trams Infrastructure - Tram Track Construction CE-019-ST-0033 |  |  | |  |  | |  |  |  |  |
|  | |  | **Structure / Component:** Tram Tracks |  | Signed : | |  | Signed : | |  | Signed : |  |  |
|  | |  | **Location:** |  | Date : | 28/04/22 | | Date : 28 | /04/22 |  | Date : 28/04/22 |  |  |
|  | | | | | | | | | | | | | |
| **Lot No:** |  | **Lot Details:** |  |  |  |  |  | **Lot Size/ Quantity:** | | |  |  |  |
|  | | | | | | | | | | | | | |
| **Item** | **Task/Activity Description** | **Inspection / Controls and Verification Detail** | | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility** | **Checked by:** | | | |
| **No.** | **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection / Test Method** | | **Record of conformity** | Engineer Superintendent Surveyor Foreman | **Client** | **Fulton Hogan** | **FH's Sub- contractor** | **Date** |
| **1** | **Preliminary Works** | | | | | | | | | | | | |
| 1.1 | Check for correct documentation | Prior to commencing any activity | Ensure that employees and sub contractors are using the most current and complete set of construction drawings. | Drawings and drawing registers | Visual inspection | | This ITP signed | **HP\*** | FH Engineer | N/A |  | N/A |  |
| 1.2 | Implementation of all measures and controls | Prior to commencing any activity | All necessary project measures and controls are being implemented, that is: EMP, TMP, SWMS & WP | EMP, TMP, JSEA, SWMS, WP | Verify | | This ITP signed | **HP\*** | FH Engineer | N/A |  | N/A |  |
| 1.3 | Material Compliance | Prior to commencing any activity | Ensure that the base course material complies with the requirements of VicRoads Standard Specification Section 820. | CE-019-ST-0033 | Document Review | | Test Reports from supplier | **HP\*** | FH Engineer | N/A |  | N/A |  |
| **2** | **Construction Works** | | | | | | | | | | | | |
| 2.1 | Sub Base | Each Lot | * Sub grade has been inspected, no visible ponding, springing presence, or visible deformation. * ITP-001 HP for subgrade inspection signed off | VicRoads 173.03 | Inspection / Test Method | | This ITP signed | **HP\*** | Fulton Hogan Engineer | N/A |  | N/A |  |
| 2.2 | Spreading material | Each lot | Material shall be spread in such a manner as to minimise segregation of the material into fine and coarse components. The pavement material shall be spread in even and equal layers more than 60 mm but not exceeding 120 mm in compacted thickness | CE-019-ST-0033 CL4.2.7.2. | Visual Inspection | | This ITP signed off | **IP** | FH Engineer | N/A |  | N/A |  |
| 2.3 | Compaction | Each lot | Immediately after spreading the material, compaction is to take place and moisture is to be applied to maintain moisture content within 1% of optimum moisture content.  Each layer of material shall be separately compacted to a density of not less than 95 percent Modified Relative Compaction. Compaction of earthworks shall be carried out at a moisture content appropriate to the compacting equipment being used and between 85% - 125% of the optimum moisture content found in the compaction test.  Compaction testing shall be carried out once per days production and shall comprise of  three samples | CE-019-ST-0033 CL4.2.7.8.1 &  CL4.2.8.2. | Visual Inspection | | Test Results | **TP** | FH Engineer | N/A |  | N/A |  |
| 2.4 | Level Checking and Conformance |  | Any deficiencies in the level or surface of the base course are to be rectified within the same day of placement | CE-019-ST-0033 CL4.2.8.3. &  CL4.2.8.4. | Verify | | This ITP signed off | **IP** | FH Engineer | N/A |  | N/A |  |
| 2.5 | Finished surface | Each lot | Base course shall be constructed to the compacted thickness, levels, lines and grades shown on the drawings  Layer to be finished to a smooth and uniform surface and after compaction shall conform to acceptable limits. | * CE-019-ST- 0033 CL4.2.2.8   + Contract drawings | Visual inspection | | This ITP signed off | **SCP** | Surveyor/ FH Engineer | N/A |  | N/A |  |

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|  | | | | | | | | | | | | | |
|  | **Final Inspection** |  |  |  |  |  |  |  |  |  |  |  |  |
| The signature below verifies that this ITP has been completed in accordance with the FH’s Quality system Procedures and verifies lot compliance with specifications. | | | | | | | | | | | | | |
|  | Print Name: |  | Position: |  | Signature: |  |  |  |  | Date: / / | |  |  |
|  | | | | | | | | | | | | | |
| ***Legend*** | | | | | | | | | | | | | |
| **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\*** | FH Hold Point | Work shall not proceed past the HP\* until released by FH | | | **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 | | |  | | | | | | | | |