**Inspection and Test Plan – Unbound Flexible Pavement**

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| **Project no.** | | **CC-0371** | **Project name** | Parkville Urban Realm Works | | **Date** |  | | **Approved by** |  |
| **ITP no.** | 2 | | **Revision date** | 10/10/2022 | **Plant and equipment used** | | | Excavator, Grader, Roller, Tandems, Trucks & Trailers | | |
| **Lot no.** |  | | **Location (chainages, detailed description or marked up plan)** | | | | | Refer to attached lot map | | |

Attach Dockets, Certificates and QA Documents to ITP

|  |  |  |  |  | **Verification of acceptance by** | | | | | **Remarks/record (eg. Test frequency reports, certificates, checklist etc)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | **Symal** | | | **CYP D&C JV** | |
| **Item no.** | **Activity** | **Ref docs** | **Acceptance criteria** | **Freq** | **Key** | **Resp** | **Initial/ date** | **Key** | **Sign/ date** |
| **1.0 Preliminaries** | | | | | | | | | | |
| **1.1** | Survey Set-out | IFC Drawings | **Has the work area been set out for line and level?**  Yes  No  N/A | Prior to start of Works | H | SE |  |  |  |  |
| **1.2** | Conformance of Previous layer | VR Clause 304.04 | Has the previous layer passed acceptance criteria?  **Approval to proceed?**  Yes  No  N/A | Prior to start of works | H | PE |  | **H** |  | Survey Conformance Certificate  ITP & Test Reports |
| **1.3** | Material classification and source | VR Clause 304.03  811  812  IFC Drawings | **Is the correct material being used?**  Class 2  Class 3  CTCR  **Has the material to be used been approved for use (Material certificates to be provided)?**  Yes  No  N/A | Prior to start of works | H | SE |  | **CYP(H)/**  **IR(R)** |  | CYP D&C JV Materials Approval |
| **1.4** | Determine lot size | VR Clause 304.111 | What is the lot size?  ……………….. m2  Maximum lot size = 1 days production or 4000m2 | Prior to start of works | H | SE |  |  |  | Lot map |
| **2.0 Pavement Construction** | | | | | | | | | | |  |  |  |
| **2.1** | Layer classification | VR Clause 304  IFC Drawings | **Is the pavement intended to be Lower Subbase or Upper Subbase?**  Lower subbase  Subbase  Base | Prior to start of works | R | SE |  |  |  |  |
| **2.2** | Construction - Jointing | VR Clause 304.07 | Transverse - Offset by not less than 2 m to any underlying pavement layers.  Longitudinal - Offset by not less than 150 mm to any underlying pavement layers. Located within 300 mm of the traffic lane lines or within 300 mm of the centre of a traffic lane.  **Has all of the above been completed correctly and to a high standard?**  Yes  No  N/A | Each Lot | W | SE |  |  |  | Construction photos |
| **2.3** | Placement of Material | VR Clause 304.06  IFC Drawings | Place and compact layers so that the surface finish is smooth and uniform.  The width of each side of the pavement shall not be less than the specified offset width or more than 50 mm outside the specified offset width when measured at right angles from the centre line or design line.  No point > 8 mm below a 3 m straight edge in any direction  No point >10 mm below a 6 m straight edge in any direction  **Has all of the above been completed correctly, to a high standard and approved?**  Yes  No  N/A | Each Lot | I | SE |  | **IR/CYP (W)** |  | Construction photos |
| **2.4** | Moisture | VR Clause 304.08(a) | **Has the material maintained at optimum moisture content (>85%), with additional water being added if required during compaction?**  Yes  No  N/A | Each Lot | I | SE |  |  |  | Test report |
| **2.5** | Testing – Stability (Proof Roll) | VR Clause 304.08(b) | Area shall withstand test rolling without visible deformation or springing.  **Has all of the above been completed correctly, to a high standard and approved by relevant authority?**  Yes  No  N/A  If ‘no’ please see below If ‘yes’ please proceed to 2.7 | Each Lot | **H** | PE |  | **IR(W)/ CYP(H)** |  | Proof roll report |
| **2.6** | Identification of soft wet or unstable material | VR Clause 304.08 | **What quantity of soft, wet or unstable material is present?**  ……………………..m2  ……………………..m3 | Each Lot | **R** | PE |  |  |  | Survey report |
| **2.7** | Treatment of unsuitable material  (Testing of material to be agreed on site) | VR Clause 304.08 | **Has rectification process been submitted to VicRoads for Review?**  Yes  No  N/A  **What was the rectification process used?**  ………………………………. | Each Lot | **H** | SE |  | **H** |  | Proof roll report |
| **2.8** | Protection of compacted layer | VR Clause 304.09 | Surface of each compacted layer in good order/condition & free from contamination until the subsequent pavement work is to commence.  **Has all of the above been completed?**  Yes  No  N/A | Each Lot | I | SE |  | **H** |  |  |
| **3.0 Testing** | | | | | | | | | | |
| **3.1** | Testing – Compaction | VR Clause 304.08(b)  304.10  304.11  Table 304.111 | Characteristic Density Ratio % (six tests per lot): Not less than 98.0% Modified (Scale A)  Characteristic Density Ratio % (six tests per lot): Not less than 97.0% Modified (Scale B)  For layer directly beneath bituminous surface, not less than 100.0 for scale A and 98.0 for scale B  **Has all of the above been proven to meet and/or exceed minimum tested requirements?**  Yes  No  N/A | As required by section 3.2 | R | SE |  | **R** |  | NATA Test Report |
| **3.2** | Testing – Reduced Frequency | VR Clause 304.11  Table 304.111 | Test every lot for acceptance until three consecutive lot of like material and/or work have passed the requirements.  For Subbase, one Characteristic Density Ration % (six tests) will be completed for every second lot.  Testing will be completed at the minimum frequency until such time as a lot fails to achieve the specified requirements. After a failed result, all subsequent lots will be tested until three consecutive lots of like material and work have achieved the specified standard, at which time the frequency of testing may revert to the minimum frequency | Each lot | R | SE |  | **R** |  | If using reduced frequency, provide lot number of previous lot tested:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **4.0 Completion** | | | | | | | | | | |
| **4.1** | Survey as built | VR Clause 304.06  Table 304.061  Table 304.062 | Surface after completion shall be smooth and uniform, free of segmented areas and conforming to grade, thickness and cross-section shown on the drawings.  Surface level checked for compliance with 304.06:   * Mean +6 mm to -10 mm with a max std deviation of 10 mm (**Scale A**) * Min 80 measurements per lot (**Scale A**) * Mean +8 mm to -16 mm with a max std deviation of 15 mm (**Scale B**) * Min 40 measurements per lot (**Scale B**)   **Has all of the above been proven to meet and/or exceed requirements set out in contract?**  Yes  No  N/A | Each Lot | R | SE |  | **R** |  | Survey Conformance Certificate |
| **5.0 Work Lot Close Out** | | | | | | | | | | |
| **5.1** | Test Reports | VR Clause 304 | All Test reports received and Reviewed as per Requirements for Testing and Acceptance of Surface Level Measurement, Compaction and Post-compaction Gradings and PIs (Clauses 304.06, 304.08, 304.10 and 304.11)  **Has all of the above been proven to meet and/or exceed minimum tested requirements?**  Yes  No  N/A | Each Lot | R | SE |  |  |  | NATA Endorsed Test Reports  Yes  No  N/A |
| **5.2** | Product Non-Conformance | CMP | All Product Non-Conformance(s) recorded and closed (if applicable)  **Has all of the above been proven to meet and/or exceed minimum tested requirements?**  Yes  No  N/A | Each Lot | R | SE |  |  |  | NCR reports  Yes  No  N/A |
| |  | | --- | | **Comments**: | |  | |  | |  | |  | | | | | | | | | | | |

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| **Works complete (signer SS)** | |  | | | **Date works complete** | |  | | | |
| **Lot conforms (signer PE)** |  | | **Date lot closed** |  | | **NCR/s no. raised** | |  | **Date NCR closed for this lot** |  |

**Responsibility (Resp.) Key**: **PM**-Project Manager, **PE**-Project Engineer, **SE**- Site Engineer, **CS**-Civil Superintendent, **SS**-Site Supervisor, S**V**-Surveyor, **CR**-Client Representative

**SI –** Superintendent

**Inspection Key: W –** Witness, **H –** Hold Point, **S –** Surveillance, **R –** Review Point, **I –** Inspection Point