**Inspection and test plan – Underscreed Concrete Pavement**

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| **Project no.** | | **CC – 0371** | **Project name** | Parkville Urban Realm Works | | **Date** |  | | **Approved by** | Billy Dando |
| **ITP no.** | ITP-SYM-004 | | **Revision date** | 03/10/2022 | **Plant and equipment used** | | |  | | |
| **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)** |
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|  |  |  |  |  | **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** | Concrete mix design approval | VR703.01  VR703.05  AS 1379 | Concrete mix design approved by the Superintendent and a registered mix and Material properties meet project specifications  Yes ☐ No ☐ N/A ☐ | Prior to start of works | **H** | SE/PE |  | **H** |  |  |
| **1.2** | Concrete Grade | Project Specs | Concrete Strength\_\_\_\_\_\_\_\_ MPA | Prior to start of works | **H** | SE/PE |  |  |  |  |
| **1.3** | Conformity with Drawings | VR Clause 701.10 | Are the drawings, complete & current?  Yes ☐ No ☐ N/A ☐ | Prior to start of works | **H** | SE/PE |  |  |  | Attach Recent IFC Drawings |
| **1.4** | Setting Out | VR703.17  VR703.15 | Is the work area clearly pegged out for line and level?  Yes ☐ No ☐ N/A ☐ | Prior to start of works | **H** | SS |  |  |  |  |
| **1.5** | Bedding Preparation | VR703.20/703.21  VR204.13  VR304.08 | Is edging constructed over Pavement layer?  Where edgings are constructed over pavement layers, bedding shall be provided between the pavement layer and the underside of the edging, or the edging thickened to match the pavement layer.  Yes ☐ No ☐ N/A ☐  Is bedding for footpaths and surfaces compacted to 100mm thickness unless noted otherwise.  Yes ☐ No ☐ N/A ☐  Is bedding for SUPs, bedding compacted to 150mm thick unless noted otherwise.  Yes ☐ No ☐ N/A ☐  bedding shall be moist but shall have no free water on the surface before concrete is placed  Yes ☐ No ☐ N/A ☐  Is bedding material used for cast in place concrete paving works compacted size 20 mm Class 3 or Class 4 crushed rock or Class 3 or Class 4 crushed concrete, manufactured and supplied in accordance with Sections 812 or 820 respectively.  Yes ☐ No ☐ N/A ☐  Is bedding material for shared use paths compacted size 20 mm Class 3 crushed rock or Class 3 crushed concrete in accordance with Section 812 or 820 respectively, and Section 304.  Yes ☐ No ☐ N/A ☐  Are pavement lots tested for compliance with the specified compaction scale for moisture content no less than 85%  Yes ☐ No ☐ N/A ☐  Is fill material used below bedding tested to **Table 204.131 Compaction Requirements**  Yes ☐ No ☐ N/A ☐ | Prior to start of works | R | SE/PE |  | **S** |  |  |
| **1.5** | Provision for Permanent Signs | VR703 | have sign post sockets been supplied & placed for erection of permanent signs in the areas to be paved as per VR703.22.  Yes ☐ No ☐ N/A ☐ | Each Lot | R | SE/PE |  |  |  |  |
| **1.6** | Relevant Permits Required |  | Relevant permits have been signed and approved.  Yes ☐ No ☐ N/A ☐ | Prior to start of works | R |  |  | **H** |  |  |
| **1.7** | Excavation | IFC Drawings | Excavation to a total depth of \_\_\_\_\_\_\_mm | Each Lot | R |  |  |  |  |  |
| **1.8** | Sub-Base Course | IFC Drawings | mm layer of \_\_mm Class \_\_ crushed rock or crushed concrete placed? | Each Lot | R |  |  |  |  |  |
| **2.0 Under screed/Concrete Pavement** | | | | | | | | | | |
| **2.1** | Formwork | VR703.12 | Formwork has been installed correctly and sufficiently braced.  Yes ☐ No ☐ N/A ☐  formwork set out has been done as per latest design drawings and specifications  Yes ☐ No ☐ N/A ☐  Were Construction joints/Expansion Joints/Isolation Joints /or any type of joint as specified in the drawings Installed  Yes ☐ No ☐ N/A ☐  Installations of Cast-Ins/ HD bolts/ Chemical Anchors/Block out Verified/Sockets  Yes ☐ No ☐ N/A ☐ | Each Lot | H | SE/PE |  | **W** |  |  |
| **2.2** | Steel Reinforcement | VR703.13  AS/NZS 4671  AS/ZNS 4680  AS3600  VR703.16 | Mesh installed with 40mm top and sides cover and 50 mm Bottom Cover  Yes ☐ No ☐ N/A ☐  Tolerance - As per specifications and Australian Standard  Yes ☐ No ☐ N/A ☐  steel is free of excess corrosion, loose millings, oil or other contaminants  Yes ☐ No ☐ N/A ☐  Required Connection Details - U Bars/ Z Bars/  Cogs/Starter bars Verified  Yes ☐ No ☐ N/A ☐  Correct concrete cover and chairs on sides, bottom and top Verified  Yes ☐ No ☐ N/A ☐ | Each Lot | R | SS |  | **W** |  |  |
| **2.3** | Pre-Pour Inspection | IFC Drawings/QMP | Has steel reinforcement been placed correctly with adequate cover?  Yes ☐ No ☐ N/A ☐  Have tie bars and joints been installed at the correct intervals?  Yes ☐ No ☐ N/A ☐  pour area is free of loose debris, oils, water  Yes ☐ No ☐ N/A ☐  Have any services/penetrations/blockout located within the Pavements been installed, surveyed and pinned down  Yes ☐ No ☐ N/A ☐  Concrete Testing Lab Representative will be available during concrete pour  Yes ☐ No ☐ N/A ☐  Sufficient vibrators are available during concrete pour  Yes ☐ No ☐ N/A ☐  CYP D&C JV informed of concrete pour date and start time  Yes ☐ No ☐ N/A ☐ | Prior to start of Concrete Placement | H | SS |  | **IR/**  **CYP(W)** |  | attach subcontractor ITPs |
| **2.4** | Placing, compacting and finishing concrete | VR610.10/610.13  VR610.18  VR703.08 | Is concrete temperature as per VR703. and not mixed when the air temperature is lower than 5°C or greater than 35°C.  Yes ☐ No ☐ N/A ☐  Is discharge Time 60 minutes unless mix design is approved by Proof Engineer for 90 minutes.  Yes ☐ No ☐ N/A ☐  Is concrete thoroughly compacted and works carried out as per Australian Standard & Project Drawings/ Specifications  Yes ☐ No ☐ N/A ☐  Are concrete samples taken in accordance with 610.16(b).  Yes ☐ No ☐ N/A ☐  Is specified slump tolerance within 610.16(c).  Yes ☐ No ☐ N/A ☐  Is concrete mixed for not less than a period of three (3) minutes prior to discharge.  Yes ☐ No ☐ N/A ☐  Is the maximum time lag between truck loads on site shall not exceeding 25 minutes if a continuous pour  Yes ☐ No ☐ N/A ☐  A minimum of one of vibrator used at all times while the concreting is in operation  Yes ☐ No ☐ N/A ☐  were forms/cast in items monitored during the pour.  Yes ☐ No ☐ N/A ☐  Concrete Dockets Received  Yes ☐ No ☐ N/A ☐  Concrete quantity\_\_\_\_\_\_\_\_ M3  Pour date\_\_\_\_\_\_\_/\_\_\_\_\_\_\_/\_\_\_\_\_\_  Concrete Fall achieved as per latest IFC drawings  Yes ☐ No ☐ N/A ☐ | Each Lot | **H** | SE/PE |  | **IR/**  **CYP(W)** |  | Concrete pour record attached.  **Yes □ No □**  Concrete test results attached.  **Yes □ No □** |
| **3.0 Post Pour/ Finishing** | | | | | | | | | | |
| **4.6** | Post Pour | VR703.25 | Did concrete achieve the required finish as per specifications  Yes ☐ No ☐ N/A ☐  Are hidden concrete surfaces of concrete paving have a Class 4 surface finish in accordance with AS 3610.  Yes ☐ No ☐ N/A ☐  Curing agent applies as per project specifications  Yes ☐ No ☐ N/A ☐  Concrete reached design strength to strip formwork. (Attach test results)  Yes ☐ No ☐ N/A ☐  Any identified defects after stripping rectified  Yes ☐ No ☐ N/A ☐  Were expansion joints placed at intervals less than 10m.  Yes ☐ No ☐ N/A ☐  As Built Survey completed and report attached.  Yes ☐ No ☐ N/A ☐ | Each Lot | R | SE |  | **IR/**  **CYP(W)** |  | Concrete test results attached.  **Yes □ No □** |
| **4.10** | Backfilling | VR703.29 | were topsoil placed and compacted on layers not exceeding 150mm in thickness and not exceeding 300mm in width not earlier than 3 days after concrete pour?  Yes ☐ No ☐ N/A ☐  Were the positions of any existing conduits passing under edgings marked by a chase in the edging immediately above the conduit together with a suitable identification mark.  Yes ☐ No ☐ N/A ☐ | Each Lot | R | SE/PE |  | **W** |  |  |
| **5.0 Completion** | | | | | | | | | | |

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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

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