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|  | **Inspection and Test Plan - Resurfacing** | | |
| Site Location: Herbert street , Invercargill | | |
| **ITP**  **Prepared By:** | Nik Basarge | **ITP Approved By:** | Edward Hailes |
| **Date:** | Wednesday, 20 December 2023 | **Date:** |  |

Hold Point

Work shall not proceed past Hold Point until acceptance criteria is reached and verified.

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| **ITP**  **Reference Number** | **ACTIVITY DESCRIPTION** | **VERIFICATION ACTIVITY** | **METHODS OR REFERENCE** | **FREQUENCY** | **ACCEPTANCE CRITERIA** | **Hold Point** | **Records** | **Responsible Person** | **Records/Remarks incl NCR ref (sign & date)** |
| **1.0 General** | | | | | | | | | |
| 1.1 | Public Notification | Communication | Media/Letter Drop | Prior to establishing on site and as situation changes. | \*All relevant properties and stakeholders contacted by works notice.  \*TREIS notification | **Mandatory HOLD POINT** | Letter | Paving Manager / Contract Manager |  |
| 1.2 | Crew Instructions / Crew Briefing Plans | Approval | Written Plan | Prior to work commencing. | Crew Instructions available including all surfacing requirements of the site. | **Mandatory HOLD POINT** | CBPs | Paving Manager / Contract Manager |  |
| 1.3 | TMP | Approval | Approved Plan | Prior to work commencing. | \*Approved plan from Southland TMC (Simon Wilson)  \*CoPTTM onsite record form used | **Mandatory HOLD POINT** | TMP | Paving Manager / Contract Manager |  |
| 1.4 | Pavement Marking - pickup of existing | Data | Road Runner or site measurement | Prior to milling commences | Road Runner or site measurements | **Mandatory HOLD POINT** | Data | Paving Manager / Contract Manager |  |
| 1.5 | Weather | Approval | Weather Forecast Data | Daily | Consistent dry weather with no significant  rainfall. +10oC for duration of paving operations. | **Mandatory HOLD POINT** | Site Diary | Foreman / Contract Manager |  |
| 1.6 | Resurfacing Extents | Approval | Site-visit | Prior to commencement | ICC and Paving Manager visit site to mark and agree extents. | **Mandatory HOLD**  **POINT** | Site-visit notes | Paving Manager / Contract manager |  |
| **2.0 Milling Operations (Full Mill at 45mm)** | | | | | | | | | |
| 2.1 | Services located and marked-out. | Lay out | - | All services within milling limits | Site walk over to confirm all services are marked prior to milling operations beginning and also documented on CBP so all staff are aware. | **Mandatory HOLD POINT** | Site Photos | Foreman / QA |  |
| 2.2 | Dip-checks | Measure | Measure each side of the cut the milling machine  makes | Every 10m, each mill run | \*Dip check during milling to ensure 45mm mill depth achieved prior to placing mix. | **Mandatory HOLD POINT** | - | QA / Foreman |  |
| 2.3 | Overmilling | Photos and measurements | Photos and measurements | Prior to resurfacing | ICC and Paving Manager visit site to mark and agree extents. | **Mandatory HOLD**  **POINT** | Photos and measruements | Paving Manager / QA |  |
| 2.4 | Pre-levelling | Photos and measurements | Photos and measurements | Prior to resurfacing | \*ICC provided opportunity to inspect surface and agree extents of any pre-  levelling if required. | **Mandatory HOLD POINT** | Site-visit notes | Paving Manager / QA |  |
| **3.0 DG10PMB Paving (40mm)** | | | | | | | | | |
| 3.0 | DG10PMB Mix Design verification | Lab Testing | NZTA M/10 | Prior to commencement | \*Mix design compliant with traffic category (Heavy Traffic)  \*Mix design compliant | **Mandatory HOLD POINT** | IANZ Lab Reports | Paving Manager QA |  |

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| 3.1 | Production Testing: Binder Content, Aggregate Grading, Maximum Specific Gravity, Temperature | Lab Testing | NZTA M/10 | 1 / 200t or maximum of 3 required per production lot | \*As per material mix design and JMF specification and within production tolerances of table 5.3 NZTA M/10.  \*[exception to production testing that night if <100T were produced after a night where production testing was performed] |  | IANZ Lab Reports | Paving Manager QA |  |
| 3.2 | Membrane | On-site check | NZTA M/10 | Prior to DG10PMB | \*Single coat G4 chipseal with 1.5 l/m² residual binder. | **Mandatory HOLD**  **POINT** | Photos | Paving Manager QA |  |
| 3.3 | Preparation | Visual | NZTA M/10 | Every section | Paving Plan to be completed for every night  with dimensions |  | Paving plan and  CBPs | Paving Manager /  Foreman |  |
| 3.4 | Cold Joints | Visual | NZTA M/10 | Every join | \*joints not to be below a trafficked wheel path - M10  \*transverse joints (start and finish) to be offset by 2m in each layer |  | Photos | Foreman |  |
| 3.5 | Check asphalt surface for deficienceis and self identify | Visual Inspection | NZTA M/10 | Continuous during paving operation and site walk over post paving. | \*Visual inspection during paving operation, any areas of segregation are to be addressed prior to compaction | **Mandatory HOLD POINT** | Photos and visual inspeciton | Paving Manager / QA |  |
| 3.6 | Laying Temperature and Compaction | Approval | NZTA M/10 | Every truck load | \*Arrival temperature within 150deg +/- 10deg to ensure compaction can be achieved as per mix design. | **Mandatory HOLD POINT** | IANZ Lab Reports | QA |  |
| **4.0 Qaulity Assurance** | | | | | | | | | |
| 5.0 | DG10PMB Sample  Results Submission | Lab Testing | NZTA M/10 | Once samples have been tested | \*Production samples meet NZTA M/10  specification |  | IANZ Lab Reports | Paving Manager |  |
| 5.1 | Core sampling result  submission | Lab Testing | NZTA M/10 | Once samples have been tested | \*Core samples meet NZTA M/10  specification |  | IANZ Lab Reports | Paving Manager |  |
| 5.2 | Surface Inspection | Check ride quality and surface irregularities using  straight edge | NZTA M/10 T/10 | Continuous | \*Site passes the initial NAASRA, <5mm deviation from 3m Straight edge. |  | Site Inspection Record, NAASRA  report | Paving Manager |  |
| 5.3 | Pavement Marking | Completed | NZTA P/22 | Once | \*Re-applied as per the existing layout and complies with NZTA P/22 specifications  \*reinstatement within 24hrs of project finishing. Temporary limit lines installed daily. |  | - | Paving Manager |  |
| 5.4 | Service Lids | Completed | - | At completion | Any service lids that were lowered and not at correct level following works are raised. |  | - | Paving Manager / QA |  |
| 5.5 | Bandaging | Completed | - | At completion | Start and stop extents bandaged. |  | - | Foreman / QA |  |
| 5.6 | RAMM pavement and surface records | RAMM records | As requested by Asset Management Team | Within 7 working days of work completed. | \*Pavement structural layer extents recorded and verified by Paving Manager  \*Surfacing layer extents recorded and verified by Paving Manager  \*Mix design information of all mix provided. |  | RAMM records | Paving Manager |  |
| 5.7 | Final Measurement  Check | Site measurements | Standard practice | At completion | Accurate as-built measurements recorded  for claim. |  | As Builts | QA / Paving Manager |  |

Quality Record Close Out: Date: (signature)

(name)

**This record to Contract File.**