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| WAKA KOTAHI NZ TRANSPORT AGENCY | Downer | Construction Process: | Start RP | | INSPECTION AND TEST PLAN - VERSION CONTROL | | 0 | 1 | 2 | 3 |
| | | OGPA Surfacing | Finish RP | | Prepared by Project Engineer: | PE name | dd/mm/yy | | | |
| | | Project Name: T2W - Tirau to Waiouru - Rehabilitation Works | | | Reviewed by Construction Manager: | PM name | dd/mm/yy | | | |
| | | | | | Reviewed by Surf./ Pavmt Manager: | Surfacing or Pavement Manager | dd/mm/yy | | | |
| Client's Rep. : Neil Payne / Deena Tapara (Stellar Projects Ltd. (SPL) | Contractor's Rep. : Wayne Bowden (CM) / Sid Rudani (PM) | Specifications | | | Approved Quality Manager.: | Nominated by Group Quality Manager | dd/mm/yy | | | |
| | | NZTA P11: Specification For Open Graded Porous Asphalt; | | | Approved Pavements SME.: | Responsible Group SME | dd/mm/yy | | | |
| | | NZTA M01-A: Specification for PG Asphalt Binder | | | Issued by: Project Engineer: | PE name | dd/mm/yy | | | |

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| | | Detail of Activity / Test | Action (Hold, Monitor, Witness) | Minimum Test Frequency (Lot = 1 day's production) | Inspection / Test method | | | | | Designer | Eng. Rep / NZTA | Contractor | Date |
| **1.0. Pre-Commencement Activities** | | | | | | | | | | | | | |
| 1.1 | Approved JMF for Asphalt Surfacing | JMF reference in here | H | Before Works commence | Confirm requirements are followed | JMF Validated in accordance with NZTA P11:2023 | Mix Design Report | Paving Contractor | JMF expiry date and validation details in here. And to make sure the mix design is sent to Engineer's Representative for approval prior to paving on site. | A | A | R | |
| 1.2 | Site Conditions | Weather suitable, Site extents marked, surface suitable for paving (Depths/milling/cleanup complete etc), Environmental Controls in place | H | Before Works commence | Confirm requirements are followed | Weather conditions and Site is suitable for paving | Site Diary | Paving Contractor | | | I | R | |
| 1.3 | Roughness | Previous layer checked for suitability to achieve Specified Ride | H | Before Works commence | Confirm Specified Ride requirements can be met | Site is suitable for paving;<br>The surface to be paved on must have a smooth longitudinal profile, and where a layer of Asphalt is to be placed over a previously constructed pavement layer, the ride quality must be confirmed with the observation of a holdpoint in the previous layer ITP. | NASSRA Report | Paving Contractor | | | I | R | |
| 1.4 | Traffic Loops | Communication with affected parties | H | Minimum of 7 days Before Works commence | Visual | Notify RC at least 7 days before surfacing is programmed | Communication | Paving Contractor | only required where existing traffic loops are present | | A | R | |
| 1.5 | Paving Plan | Paving Plan to be completed | H | Before Works commence | NZTA M27: 2020 Clause 9.5.1 | Paving Plan to be completed for each shift with dimensions, location and type of (hot/cold) joints, areas and tonneages | String Sheet | Paving Contractor | | | I | R | |

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Contractor's Rep Name:_____ Signature:_____ Date: _____

Engineer's Rep. Name:_____ Signature:_____ Date: _____

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| **2.0. MANUFACTURE OF ASPHALT** | | | | | | | | | | | | | |
| 2.1 | Temperatures | Mixing of aggregates and bitumen | M | Constant monitoring of temperature by calibrated euipment | Plant temperature probes | PG64 V/E (Flexiplus Bind) binder mixing range: 145 to 165 deg.C<br>NZTA M27: 2020 states max. 185 deg.C | Plant site diary | Asphalt Manufacturer | | I | I | R | |
| 2.2 | Production Asphalt | Particle Size Distribution | M | 1 per 200t at asphalt plant | NZS 4407 Test 3.8.1 | NZTA P11: 2023<br>Refer to Table 6.3 | IANZ accredited test cert | Asphalt Manufacturer | | I | I | R | |
| 2.3 | | Binder Content | M | 1 per 200t at asphalt plant | | NZTA P11: 2023<br>Individual Test Result: ± 0.5<br>Mean of Three Test Results: ± 0.3 | IANZ accredited test cert | Asphalt Manufacturer | | I | I | R | |
| **3.0. PLACING AND FINISHING** | | | | | | | | | | | | | |
| 3.1 | Milling | Surface strung to ensure milling Depth is achieved | H | Before Works commence | Confirm requirements are followed | Site is suitable for paving | String Sheet | Paving Contractor | | | I | R | |
| 3.2 | Tack Coat, OR | Application of Tack Coat | M | Per Lot | Dip bitumen emulsion tank before and after | Target Between 0.2l/m2 - 0.6l/m2 +/- 0.1l/m2 From Target Application Rate | Site Diary | Paving Contractor | | I | I | R | |
| 3.3 | Membrane Seal | Application of Membrane Seal | M | Per Lot | Sealing Records | Application rate, chip type and binder as per membrane seal design | Sealing Records | Paving Contractor | | I | I | R | |
| 3.4 | Temperature | Pavement Surface | M | Start of shift and every 1 hour until temperature rising | Infrared gauge | ≥ 10 °C or as otherwise agreed with NZTA | Site diary | Paving Contractor | Must get NZTA approval if < 10°C | I | I | R | |
| 3.5 | | Asphalt Delivery temperature | M | Every Load on delivery to the Paver Hopper | Temperature Probe | Target ≥ 150 deg.C. in the Paver<br>Min. ≥ 120 deg.C in the Paver<br><120°C to be Rejected | Site Diary | Paving Contractor | | I | I | R | |
| 3.6 | | Compaction Temperature | M | During compaction | Temperature Probe/Infrared gauge | ≥ 115°C at commencement of compaction. < 80°C - Stop Rolling | Site diary | Paving Contractor | | I | I | R | |
| 3.7 | Mat | Load Locate | M | Each load | M/27 | Each load can be indentified to a location using a diagram. Record includes:<br>- Truck ID/Rego/Driver<br>- Depart Plant Time<br>- Arrive Site Time<br>- AC Temp on Arrival<br>- Tonnage<br>- Run Width<br>- Estimated Run Length<br>- Calculated Area<br>- Calculated Average Depth | Paving Run Sheet | Paving Contractor | | I | I | R | |
| 3.8 | | Thickness Monitoring | M | Continuously | Dipping | Target Loose Thickness -0mm / +10mm | | Paving Contractor | | I | I | R | |
| 3.9 | | Shape | M | Continuously | 3m Straight edge | NZTA P11: 2023 - section 14.2.<br>Not more than 5mm under a 3m Straight Edge parallel or perpendicular to centre line | Straight Edge Record | Paving Contractor | | I | I | R | |
| 3.10 | Paving Quality | Texture | M | Per Site (If Required) | Sand Circle or HSD | NZTA T/10: 2013 | IANZ accredited test cert. | Paving Contractor | | I | I | R | |
| 3.11 | | Alignment | M | Per Site (If Required) | As Built Survey | ±50 mm from drawings | Survey As builts | Paving Contractor | | I | I | R | |

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| 3.12 | Post Paving Completion Checks | Site clear and cleanup | W | Each Site/Shift | Visual | Site is cleared of plant (or parked in safe location) cleanup of all waste mix, paper and detritus is complete | Site Diary | Paving Contractor | | | I | R | |
| 3.13 | | Pavement Marking | W | Each Site/Shift | Visual | Roadmarking is complete | Site Diary | Paving Contractor | | | I | R | |
| 3.14 | | Cold Joint Bandaging | W | Each Site/Shift | Visual | Cold joint bandaging is complete | Site Diary | Paving Contractor | | | I | R | |
| 3.15 | | Service Covers Checked | W | Each Site/Shift | Visual | Check that service covers are cleared and level with the pavement | Site Diary | Paving Contractor | | | I | R | |
| 3.16 | | Traffic Loops Reinstated | W | Each Site/Shift | Visual | Check that affected traffic loops have been reinstated | Communication | Paving Contractor | | | I | R | |

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| **4.0. As Built Records** | | | | | | | | | | | | | |
| 4.1 | Assessment of all test results for conformity | Review against ITP Requirements | H | For each site on the project | Review | Reporting of any non-conforming results to Engineer via NCR | NCR | Paving Contractor | | **I** | **A** | **R** | |
| 4.2 | RAMM pavement and surface records | RAMM surfacing pavement data spreadsheet updated | W | For each site on the project | Prepare Data | Over milled and Deep lift extents recorded and verified by Contract Engineer / QA<br>Spray sheets for membrane area received by Contract Engineer from Sealing Team.<br>Surfacing layer extents recorded and verified by Contract Engineer. | RAMM Spreadsheet | Paving Contractor | | **I** | **A** | **R** | |
| 4.3 | Paving Quality | Ride Quality | W | Continuous every lane | NAASRA | Max 100m Rolling Average 60 Counts/km<br>Max 20m NASSRA 100 Counts/km<br>Refer TNZ TM 7003 v1 (2006)<br>Contract Document Clause 14, sub-clause 14.1.4 | IANZ accredited test cert. | Paving Contractor | | **A** | **I** | **R** | |

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