| **Item**  **No.** | **Task/Activity Description** | **Inspection/Test** | | | | | | | **Type** | **Responsibility** | **Checked/Verified by (initial/Date)** | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Frequency** | **Acceptance Criteria** | | | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **TfNSW** | **Fulton Hogan** | **PV** | | **Date** |
| **1** | **Preliminary** | | | | | | | | | | | | | | |
| 2 | Confirm the type of asphalt seal to be laid against the design drawings  ❑ Correction ❑ Intermediate  ❑ Wearing  ❑ AC20 ❑ AC14 ❑ AC10  ❑ AR450 ❑ A15E  ❑ Other:  ❑ Thickness: | Per Lot | The type and thickness of asphalt are proposed as per the details shown on pavement design drawings | | | Design DWGs |  | Verification Checklist | IP | Site Engineer |  |  |  | |  |
| 3 | Mix Temperature for Laying | Each Lot | Warm Mix:   * To be delivered into the paver between 120C-165C. Minimum temperature before compaction of 110C.   Hot Mix:   * To be delivered into the paver between 140C-175C. Minimum temperature before compaction of 120C.   Temperature recorded by Infra-Red Temperature Gun & Probe. | | | R116 and Asphalt Laying Procedure. Measure using an infrared thermometer. |  | Hold Point | HP | Site Engineer/ Foreman |  | PV |  | |  |
| **4** | **Preparation of Pavement Surface** | | | | | | | | | | | | | | |
| 5 | Setup the working area | Per Lot | Mark-out the placement boundary, chainage and required thickness on the surface of the areas  Ensure the mark-outs matches drainage inlets including kerb and gutters | | | R116.4.3 |  | Verification  Checklist | IP | Site Engineer |  |  |  | |  |
| 6 | Preparation of pavement surface | Each Lot | Prior to place asphalt, prepare the surface to a clean, no loose material, defect free and road markers removed, road services and fixtures in vicinity covered, and where required, prime sealed.  Sweep to extend 300mm beyond each edge of area to be paved. | | | R116.3.2  AS2150.10 |  | Verification  Checklist | IP | Site Engineer |  |  |  | |  |
| 7 | Check and record pavement temperature and weather conditions | Each lot /  1 check per 2 hours | With zero wind speed pavement temperature must above: | | | R116.3.7  3252  3253 |  | Asphalt Placement Record | IP | Site Engineer  Subcontractor |  |  |  | |  |
| Binder | Aggregate | Temperature |
| A15E | AC20 | 10oC |
| A15E | AC14 or smaller | 15oC |
| AR450 | AC20 | 5oC |
| AR450 | AC14 or smaller | 10oC |
| * Add 5oC to above limits for each 5 kph of wind speed above zero * Do not place tackcoat and/or asphalt when the pavement surface is wet and/or rain is imminent. | | |
| **8** | **Construction** | | | | | | | | | | | | | | |
| 9 | Construction of temporary ramps / preparation of construction joints | Each Lot | Set up and prepare the temporary ramps and construction joints for safe access and protection of constructed works | | | R116.3.12  AS2150.A |  | Verification  Checklist | IP | Site Engineer |  |  |  |  | |
| 10 | Application of tack coat | Each Lot | Apply Tack coat at the nominated rate, and record the rate in the Asphalt Placement Record Sheet   * The application rate is to be between 0.15-0.3 L/m2, if not otherwise specified * Nominate in writing to the RMS rep your proposed tackcoat application rate prior to applying the tackcoat. * Reduced application rate for tackcoat is acceptable due to the existing underlying pavement material. Comply with PV first. * Report the application rate in terms of residual bitumen and state the percentage dilution of the tackcoat used during spraying * Provide to RMS rep a daily record with your endorsement, of the average tackcoat application rate applied to each lot. | | | R116.3.9 |  | Asphalt Placement Record | IP | Site Engineer |  |  |  |  | |
| 11 | Check Asphalt Temperature | Per Delivery Load | Measure and monitor paving and compaction temperatures and ensure they are not fall below which nominated in item 5. | | | R116.3.8 |  | Asphalt Placement Record | IP | Site Engineer |  |  |  |  | |
| 12 | Construct joints to specified locations | Per Lot | Longitudinal joints are to be:   * Offset 150mm from the joint of underlying layer, * within 150mm of the line of cross fall change * Located out of wheel paths & in surface layers, coincident with final traffic markings.   Transverse joint are to be:   * Located a min 25m apart * Offset 1m from the joint in the underlying layer * Formed at the commencement of each paving run * formed when a delay in paving causes asphalt temperature to fall below the initial compaction temperature nominated in Clause 3.8.. | | | R116.3.10 |  | Verification  Checklist | IP | Site Engineer |  |  |  |  | |
| 13 | Supervise the placement work | Per Lot | All asphalt must be homogenous in appearance. Areas of asphalt that exhibit segregation, cracking, ravelling, bony or fatty material, or damages rectified or replaced. | | | R116 5.1 |  | Verification  Checklist | IP | Site Engineer |  |  |  |  | |
| **14** | **Post Placement** | | | | | | | | | | | | | | |
| 15 | Protect services | Per Lot | Immediately after the asphalt has been placed, clean & remove off waste asphalt from affected services and road fixtures | | | R116.4.3 |  | Verification  Checklist | IP | Site Engineer |  |  |  |  | |
| 16 | Obtain and verify conformance records including relevant verification sheets | Per Lot / R116.L | Check conformance report against conformance criteria:   * Production test results * Asphalt placement record with all dockets * Field test results – insitu air void, course thickness * Lot diagram with chainages * 3m straight edge report * NCRs if required | | | R116.L  Q6 |  | Asphalt Placement Record | IP | Site Engineer |  |  |  |  | |
| 17 | Conformance of Levels and Thickness of Pavement | Per Lot | Level of any course placed meets table R116.9 except where tying in to existing surface where the pavement is to drain surface water and match levels of existing surface.  Average thickness of calculated by survey consistent with average thickness calculated from cores except for wearing course which is to be within 10% of design thickness. | | | R116.4.3.1 |  | Survey Report | SCP | Surveyor |  |  |  |  | |
| 18 | Submit Test results to RMS | Per Lot | * To be submitted progressively * Binder content, combined particle size distribution, air voids – within one day of mixing * In-situ air voids, course thickness and course shape within 3 days of placing | | | R116.5.3.3 |  | Transmittal | IP | Site Engineer |  |  |  |  | |

**Legend:**

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| **HP** | Hold Point | Work shall not proceed past the HP until released by the Project Verifier | **IP** | Inspection point | Formal Inspection to be done and recorded |
| **HP\*** | FH Hold Point | Work shall not proceed past the HP\* until released by Fulton Hogan | **TP** | Test Point | Product compliance test to be undertaken and recorded/reported |
| **WP** | Witness Point | An inspection which must be witnessed by the Project Verifier | **SCP** | Survey conformance point | A qualified surveyor to check product/section/structure and report |
| **AP** | Approval Point | Written or verbal approval given by the Project Verifier | **SC** | Survey Check | |

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| **Notes** |  |