**R23 INSITU STABILISATION**

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| **Project** | **Section** | **Direction** | **Lane** | **Chainage** | **Nominal Pavement Configuration** | | | | | **Cold Planing** | | **Stabilisation** | | | | **Bituminous Seals** | | | **Surface Layer** | | | |
| **Asphalt** | | **Granular** | | | **Depth** | **Width** | **Depth** | **Width** | **Lime** | **Foam** |  | **Primerseal** | **Sami Seal** | **Type** | **Thickness** | **Finish Level Constraints** | |
| **Layer** | **Thickness** | **Layer** | **Material** | **Thickness** |  | **(metres)** |  | **(metres)** | kg/m2 | kg/m2 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Optional |  |  |  |  |  |
| Gawler By-Pass | Stage 1 | Southbound | Outer | MM 34.9 - 35.5 | AC14 | 35mm |  |  |  | 40mm | 3.8 | 190mm | 3.5 | 8.1 | 12.2 | **Binder** | Primer Binder |  | AC10M(A35P) | 35mm+/-5mm | Flush with inner lane | |
|  |  |  |  |  | AC20 | 45mm |  |  |  |  |  |  |  |  |  | **Application** | 1.0l/m2 |  |  |  | Flush with shoulder | |
|  |  |  |  |  |  |  | Base | PM32 | 150mm |  |  |  |  |  |  | **Aggregate** | 7mm |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-base 1 | PM35 | 150mm |  |  |  |  |  |  | **Spread Rate** | 170m2/m3 |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-base 2 | PM22 | 150mm |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-grade | CBR 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Optional |  |  |  |  |  |
| Gawler By-Pass | Stage 2 | Southbound | Outer | MM 31.65 - 34.9 | OG 14 | 35mm |  |  |  | 40mm | 4.1 | 190mm | 3.55 | 6.1 | 14.2 | **Binder** | Primer Binder | S15E | OG14M(A35P) | 35mm+/-5mm | Flush with inner lane | |
|  |  |  |  |  | SAMI | 10mm |  |  |  |  |  |  |  |  |  | **Application** | 1.0l/m2 | 1.8l/m2 |  |  | 35mm above shoulder | |
|  |  |  |  |  | AC14 | 40mm |  |  |  |  |  |  |  |  |  | **Aggregate** | 7mm | 10mm |  |  |  |  |
|  |  |  |  |  |  |  | Base | PM32 | 150mm |  |  |  |  |  |  | **Spread Rate** | 170m2/m3 | 125m2/m3 |  |  |  |  |
|  |  |  |  |  |  |  | Sub-base 1 | PM 21C4 | 140/170mm |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-base 2 | PM 21C4 | 140/170mm |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-grade | CBR 7/3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Kings Road |  | Eastbound | Both | Ch290 - 740 | AC14 | 30 - 45mm |  |  |  | 40mm | 4.0 | 150mm | 4.0 | 4.8 | 11.2 | **Binder** | Primer Binder |  | AC10M(A35P) | 35mm+/-5mm | Flush with water table | |
|  |  | Eastbound | Both | Ch820 - 1250 | Primerseal | <5mm | Base | 20mm quartzite | 140 - 160mm |  | (Outer) |  | (Outer) |  |  | **Application** | 1.0l/m2 |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-base 1&2 | 20mm 4%cement | 300 - 365mm |  |  |  |  |  |  | **Aggregate** | 7mm |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-grade | CBR5 |  |  | 3.5 |  | 3.5 |  |  | **Spread Rate** | 170m2/m3 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | (Inner) |  | (Inner) |  |  |  |  |  |  |  |  |  |
|  |  | Westbound | Both | Ch935 - 860 | AC14 | 30 - 40mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Westbound | Outer | Ch750 - 350 | Primerseal | 15 - 30mm | Base | 20mm quartzite | 130 - 140mm |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-base 1&2 | 20mm 4%cement | 340 - 395mm |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-grade | CBR5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Kings Road |  | Eastbound | Both | Ch740 - 770 | AC14 | 30 - 45mm |  |  |  | 190mm | 4.0 |  |  |  |  | **Binder** |  |  | AC10H(C170) | 35mm+/-5mm | Flush with existing surface | |
|  |  | Eastbound | Both | Ch800 - 820 | Primerseal | <5mm | Base | 20mm quartzite | 140 - 160mm |  | (Outer) |  |  |  |  | **Application** |  |  | AC14M(C320) | 55mm | and also with water table | |
|  |  |  |  |  |  |  | Sub-base 1&2 | 20mm 4%cement | 300 - 365mm |  |  | No stabilisation | | | | **Aggregate** |  |  | AC20M(C320) | 100mm |  |  |
|  |  |  |  |  |  |  | Sub-grade | CBR5 |  |  | 3.5 |  |  |  |  | **Spread Rate** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | (Inner) |  |  |  |  |  |  |  |  |  |  |  |
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| Kings Road |  | Westbound | Outer | Ch1370 - 935 | AC14 | 35 - 45mm |  |  |  | 40mm | 4.0 | 200mm | 4.0 | 6.4 | 15.0 | **Binder** | Primer Binder |  | AC10M(A35P) | 35mm+/-5mm | Flush with water table | |
|  |  | Westbound | Inner | Ch1280 - 935 | Primerseal | 5 - 20mm | Base | 20mm quartzite | 145 - 185mm |  | (Outer) |  | (Outer) |  |  | **Application** | 1.0l/m2 |  |  |  |  |  |
|  |  | Westbound | Inner | Ch750 - 450 |  |  | Sub-base 1 | 20mm quartzite | 40 - 60mm |  |  |  |  |  |  | **Aggregate** | 7mm |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-base 2 | Macadam | 210 - 340mm |  | 3.5 |  | 3.5 |  |  | **Spread Rate** | 170m2/m3 |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-grade | CBR5 |  |  | (Inner) |  | (Inner) |  |  |  |  |  |  |  |  |  |

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| **Project** | **Section** | **Direction** | **Lane** | **Chainage** | **Nominal Pavement Configuration** | | | | | **Cold Planing** | | **Stabilisation** | | | | **Deflection** | **Curvature** | **Primerseal** | **SAMI Seal** | **Asphalt** | |
| **Asphalt** | | **Granular** | | | **Depth** | **Width**  **(metres)** | **Depth** | **Width**  **(metres)** | **Lime %** | **Bitumen**  **Foam %** | **Type** | **Thickness** |
| **Layer** | **Thickness** | **Layer** | **Material** | **Thickness** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gawler By-Pass | Stage 1 | Northbound | Outer | MM 34.9 - 35.9 | AC14 | 35mm | Base | PM32 | 150mm | 40mm | 3.8 | 190mm | 3.5 | 2 | 3 | 0.84mm | 0.09mm | 7mm | 10mm | OG 14 | 35mm |
|  |  |  |  |  | AC20 | 45mm | Sub-base 1 | PM35 | 150mm |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-base 2 | PM22 | 150mm |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-grade | CBR 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Gawler By-Pass | Stage 1 | Southbound | Outer | MM 34.9 - 35.9 | As | Above | As | Above |  | 40mm | 3.8 | 190mm | 3.5 | 2 | 3 | 0.84mm | 0.09mm | 7mm | 10mm | OG 14 | 35mm |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Gawler By-Pass | Stage 2 | Northbound | Outer | MM 31.6 - 34.9 | OG 14 | 35mm | Base | PM32 | 150mm | 40mm | 4.1 | 190mm | 3.55 | 1.5 | 3.5 | 0.39mm | 0.09mm | 7mm | 10mm | OG 14 | 35mm |
|  |  |  |  |  | SAMI | 10mm | Sub-base 1 | PM 21C4 | 140/170mm |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | AC14 | 40mm | Sub-base 2 | PM 21C4 | 140/170mm |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Sub-grade | CBR 7/3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | Stage 2 | Southbound | Outer | MM 31.6 - 34.9 | As | Above | As | Above |  | 40mm | 4.1 | 190mm | 3.55 | 1.5 | 3.5 | 0.39mm | 0.09mm | 7mm | 10mm | OG 14 | 35mm |
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