Checklist – CAC036M
Subgrade (MRTS04)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Contractor |  | Date |  | Review No. |  |
| Contract No. |  | Project No. |  | Project Name |  |

| Reference | Requirements | Addressed | Comments/Observations |
| --- | --- | --- | --- |
| MRTS04Clause 18.2.1 | Does the subgrade fill material (in road embankments and cuttings) comply with Clause 18.2.1 and Clause 9.1 of Annexure MRTS04.1? |  |  |
| MRTS04Clause 18.2.2 | Does the unbound pavement material conform with MRTS05 and at least of the subtype specified in Clause 12.1 of Annexure MRTS04.1, or where not specified at least subtype 2.4? |  |  |
| MRTS04Clause 18.2.3 | Does the unbound granular drainage material conform to the subtype 2.4 of MRTS05 and the requirements of Table 18.2.3? |  |  |
| MRTS04Clause 18.2.4.1 | Where high‑permeability drainage material has been supplied, has a current *Quarry Registration Certificate* been submitted to the Administrator before the material has been supplied or used? Milestone |  |  |
| Does the material comply with the requirements of Clause 14.2.3 and Table 18.2.4.1(a) and Table 18.2.4.1(b)? |  |  |
| MRTS04Clause 18.2.4.2 | Has the CBR of the underlying material beneath the drainage layer been assessed by insitu DCP? Does the thickness of the drainage layer comply with the requirements of Clause 18.2.4.2? |  |  |
| MRTS04Clause 18.2.4.3 | Has smaller particle sized rock (< 75 mm) been used to 'infill' the voids of the drainage layer if the maximum particle size is > 100 mm? Has a proof roll been conducted on the infilled layer? |  |  |
| If the drainage layer is immediately below the pavement, has it been covered by > 150 mm of plant‑mixed stabilised material in accordance with Clause 18.2.5 or a lightly bound improved layer as per MRTS10? |  |  |
| MRTS04Clause 18.2.4.4 | Has the surface below the drainage layer been shaped so that it does not pond water and is free draining and has the drainage layer been placed in accordance with Clause 15.4? |  |  |
| MRTS04Clause 18.2.5.1 | What is the stabilising agent nominated for insitu stabilisation of the existing subgrade material: lime, cement, or a cementitious blend? Has the stabilising agent nominated in Clause 12.2 of Annexure MRTS04.1 been incorporated as per MRTS07A or MRTS10? |  |  |
| MRTS04Clause 18.2.5.2, Clause 18.2.5.3 | Has the stabilised material achieved a UCS of > 1.0 MPa but < 2.0 MPa at 28 days as per Clause 18.2.5.2 or Clause 18.2.5.3? |  |  |
| MRTS04Clause 18.2.5.4 | Has the Contractor:1. submitted a mix design for insitu stabilisation to the Administrator, or
2. nominated a registered mix design to the Administrator

at least 14 days before stabilisation has commenced? Hold Point 11 |  |  |
| MRTS04Clause 18.2.6 | Is the geotextile for use in a drainage layer of the appropriate strength class and filtration class in accordance with MRTS27? |  |  |
| MRTS04Clause 18.3.1 | Has the subgrade been constructed and tested to subgrade level in accordance with MRTS04 prior to construction of the pavement? Hold Point 12 |  |  |
| MRTS04Clause 18.3.2 | Has the Contractor undertaken a proof roll on the completed subgrade, in accordance with Test Method Q723? Witness Point 8 |  |  |
| MRTS04Clause 18.3.3 | Where subgrade treatment Type A is used, has the subgrade material been trimmed and compacted in accordance with Clause 13.3.1 and Clause 15.3, and MRTS04.1 Clause 12.3? |  |  |
| MRTS04Clause 18.3.3.1 | Has the subgrade in cuttings been formed to the vertical tolerances ± 25 mm as per Table 6.3.1, Clause 6.3.1 and nominal allowance as per Clause 13.3.2.1? Hold Point 8 |  |  |
| Has any material in subgrade been deemed unsuitable as per Clause 9? If so, has it been treated in accordance with Clause 13.3.2.2? |  |  |
| MRTS04Clause 18.3.3.2 | Where subgrade treatment Type D in accordance with Clause 18.3.3.6 or Type G in accordance with Clause 18.3.3.9 are to be used, has the Contractor tested the subgrade material or drainage layer material, as applicable, to determine lime reaction and demand in accordance with Test Method Q133? |  |  |
| MRTS04Clause 18.3.3.3 | Does subgrade treatment Type A comply with MRTS04? |  |  |
| MRTS04Clause 18.3.3.4 | Does subgrade treatment Type B comply with MRTS04? |  |  |
| MRTS04Clause 18.3.3.5 | Does subgrade treatment Type C comply with MRTS04? |  |  |
| MRTS04Clause 18.3.3.6 | Does subgrade treatment Type D comply with MRTS04? |  |  |
| MRTS04Clause 18.3.3.7 | Does subgrade treatment Type E comply with MRTS04? |  |  |
| MRTS04Clause 18.3.3.8 | Does subgrade treatment Type F1 or Type F2 comply with MRTS04? |  |  |
| MRTS04Clause 18.3.3.9 | Does subgrade treatment Type G comply with MRTS04? |  |  |
| MRTS04Clause 18.3.3.10 | Does subgrade treatment Type H comply with MRTS04? |  |  |
| MRTS04Clause 18.3.3.11 | Does subgrade treatment Type I comply with MRTS04? |  |  |
| MRTS04Clause 18.3.3.12 | Does subgrade treatment Type J comply with MRTS04? |  |  |
| MRTS04Clause 18.3.3.13 | Does subgrade treatment Type K (as nominated in Clause 12.4 of MRTS04.1 Annexure) comply with MRTS04? |  |  |
| MRTS04Clause 18.3.4.1 | At cut to fill or fill to cut transitions, has the embankment subgrade continued longitudinally and transversely up to the line where the subgrade level intercepts the prepared ground surface unless stated otherwise in Clause 18.3.4.2? |  |  |
| MRTS04Clause 18.3.4.2 | Where so stated in Clause 12.6 of Annexure MRTS04.1 (or as directed by the Administrator as per Clause 12.5 of Annexure MRTS04.1), have the properties of the existing foundation material beneath near grade embankments below subgrade level been tested for compliance with the requirements of Clause 9.1 of Annexure MRTS04.1 to a depth of 450 mm? |  |  |
| Has the backfilling of unsuitable material in excavations under near grade embankments been carried out in accordance with Clause 9.1 of Annexure MRTS04.1 and Table 15.3(b) for subgrade? |  |  |
| Has the construction as a near-grade embankment in accordance with Clause 12.6 of Annexure MRTS04.1 continued for a distance of 10 metres into the cutting from the line of transition, transversely and longitudinally? |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Audited by: |  |  |  |
| Name |  | Signature |  | Date |  |