Attachment B.
Auckland Transport Code of Practise (ATCOP). Chapter 16.

16.1.2 Road Pavement

The scope and intent of these works is to design and construct pavement renewal works on the road network (including pavement rehabilitation, seal extension, pavement widening, new pavement construction and pavement reconstruction works) in a safe, efficient and timely manner that will provide the best whole of life cost option to return the pavement serviceability life in accordance with the relevant standards and industry guidelines whilst minimising any inconvenience to road users and other stakeholders.

The work covers the design and construction of road reconstruction and rehabilitation works on all roads, intersections, service lanes, park and ride facilities, carparks and town centres. The work includes pavement reconstruction and rehabilitation, investigation, preparation of programmes, design, testing, reporting, estimate preparation, economic evaluation, road rehabilitation, road reconstruction, seal extension, seal widening and new road pavement construction and includes but is not limited to:

• All associated earthworks, subgrade preparation, protection of utility services, undercut and replacement works, supply and construction of all pavement granular and asphalt layers, pre-treatment of existing granular pavement layers, stabilisation of existing layers (lime, cement, KOBM, foamed bitumen or emulsion), construction of structural asphaltic pavement layers, kerb and channel, construction of interlocking paving, associated drainage of pavement reconstruction, construction of concrete pavements and construction of unsealed granular pavements.

Physical works may involve any or a combination of the following:

• Construction of granular pavement layers;
• Construction of premixed stabilised basecourse/subbasecourse layers;
• Stabilisation of the existing pavement with lime, cement and/or KOBM;
• Stabilisation of the existing pavement with foamed bitumen or emulsion;
• Construction of structural asphalt pavement layers.
• Construction of interlocking block paver roads

Works at each site may include some of the following:

• Development of an inspection and test plan for each site to demonstrate conformance with the pavement design and any relevant industry or project specifications.
• Digging, logging and reinstatement of test pits (up to 1m2 and up to 0.7m in depth).
• Undertake all necessary site investigations, desk top studies and walk overs of each pavement renewal site.
• Undertake a topographical survey of sites as instructed by the Auckland Transport representative.
• Prepare pavement design calculations, A3 drawings and a preliminary design report recommending a preferred pavement renewal option.
• Prepare estimates for the various pavement renewal options and prepare economic analyses suitable for lodging with NZTA as part of the funding application for the projects.
• Prepare A3 drawings for construction purposes and a final design report.
• Construction management and monitoring of all pavement renewal works.
• Earthworks and subgrade preparation and improvement
• Undercut unsuitable material and subgrade, backfill and compact with approved filling material
• Construction of subsoil drainage systems and connection to the nearest catchpit
• Disposal of milled and excavated material

• Location and protection of existing underground services and installation of new services and ducts.
• Construction of granular layers
• Construction of asphalt surfacing including membrane seal
• Placing of Tensar ARG Geogrid (or approved equivalent)/Geotextile including tack coat where necessary
• Construction of a first coat seal
• Construction of kerb and channel, traffic islands and medians
• Road marking and signage
• Raising or altering of utility service covers. All service covers must be raised during new surfacing or resurfacing operations to be flush with the adjacent finished pavement surface level.

Site reinstatement
• As-built plans and RAMM information