6.0 Specification

Local Guidance and Standards for Swindon

6.2 Local Standard Specification

6.2.1

The amendment of nationally applied standard specifications to incorporate proven new materials etc., can be a comparatively slow process.
This local standard section of the document will be updated, as necessary, when new materials or initiatives are created that are acceptable to Swindon Borough Council.

This will prevent developers, designers, contractors and suppliers from being precluded from the benefits of these changes, pending amendments to nationally applied specifications.

Also included in this section are standard construction thickness details for the road types mentioned in section 3.0 of this document. (also standard drawings section 7.0)

6.2.2

Stone Mastic Asphalt can be used in place of hot rolled asphalt. See Department of Transport's 'Specification for Highway Works' for specification.

Specification for Highway Works - DoT

6.2.3

Road widening

When widening existing roads, all joints in bituminous materials shall be offset at least 300mm from parallel joints in the layer beneath.

Overbanding of joints will not generally be accepted.

6.2.4

Local Distributor Road (LD)

Type	Construction Layer	Thickness (mm)	Material
Local Distributor Road (LD)	Wearing course	25mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 6mm N.S. aggregate, 100 pen binder PSV not less than 55.
	Basecourse	60mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 20mm N.S. aggregate, 100 pen binder.
	Roadbase	150mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 28mm N.S. aggregate, 100 pen binder.
	Sub-base	150mm	Granular sub-base material Type 1 (Cl.803 DTp Spec)
	Capping	350mm Note:- for CBR values < 2% 600mm	Capping layer material (Cl.613 DTp Spec.)
Sub-base thickness can be increased and capping layer omitted for CBR values> 2% (see section 3.2.2)			

Section 7.0 Drawing no. TRD/7/01 & TRD/7/60

6.2.5

Major Access Road (MaAR)

Type	Construction Layer	Thickness (mm)	Material
Major Access Road (MaAR)	Wearing course	25mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 6mm N.S. aggregate, 100 pen binder PSV not less than 55.
	Basecourse	50mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 20mm N.S. aggregate, 100 pen binder.
	Roadbase	100mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 28mm N.S. aggregate, 100 pen binder.
	Sub-base	150mm	Granular sub-base material Type 1 (Cl.803 DTp Spec)
	Capping	350mm Note:- for CBR values < 2% 600mm	Capping layer material (Cl.613 DTp Spec.)
Sub-base thickness can be increased and capping layer omitted for CBR values> 2% (see section 3.2.2)			

Section 7.0 Drawing no. TRD/7/10 & TRD/7/60

6.2.6

Minor Access Road (MiAR)

Type	Construction Layer	Thickness (mm)	Material
Minor Access Road (MiAR)	Wearing course	25mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 6mm N.S. aggregate, 100 pen binder PSV not less than 55.
	Basecourse	50mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 20mm N.S. aggregate, 100 pen binder.
	Roadbase	100mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 28mm N.S. aggregate, 100 pen binder.
	Sub-base	150mm	Granular sub-base material Type 1 (Cl.803 DTp Spec)
	Capping	350mm Note:- for CBR values < 2% 600mm	Capping layer material (Cl.613 DTp Spec.)
Sub-base thickness can be increased and capping layer omitted for CBR values> 2% (see section 3.2.2)			

Section 7.0 Drawing no. TRD/7/20 & TRD/7/60

.

6.2.7

Shared Surface Road (SSR)

Type	Construction Layer	Thickness (mm)	Material
Shared Surface Road (SSR)	Block Paving	80mm	Precast concrete paving blocks to BS 6717 Part 1
	Bed	50mm	Clean sharp sand 30mm after compaction
	Basecourse	50mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 20mm N.S. aggregate, 100 pen binder.
	Sub-base	150mm	Granular sub-base material Type 1 (Cl.803 DTp Spec)
	Capping	350mm Note:- for CBR values < 2% 600mm	Capping layer material (Cl.613 DTp Spec.)
Sub-base thickness can be increased and capping layer omitted for CBR values> 2% (see section 3.2.2)			

Section 7.0 Drawing no. TRD/7/30 & TRD/7/60

6.2.8

Industrial Access Surface Road (IAR)

Type	Construction Layer	Thickness (mm)	Material
Industrial Access Road (IAR)	Wearing Course	40mm	Hot rolled asphalt 14mm n.s. aggregate with 20mm n.s. precoated chippings. Or Stone Mastic Asphalt.
	Basecourse	60mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 20mm N.S. aggregate, 100 pen binder.
	Roadbase	100mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 20mm N.S. aggregate, 100 pen binder.
	Sub-base	150mm	Granular sub-base material Type 1 (Cl.803 DTp Spec)
	Capping	350mm Note:- for CBR values < 2% 600mm	Capping layer material (Cl.613 DTp Spec.)
Sub-base thickness can be increased and capping layer omitted for CBR values> 2% (see section 3.2.2)			

Section 7.0 Drawing no. TRD/7/40 & TRD/7/60

6.2.9

Pedestrian & Cycling Routes

Type	Construction Layer	Thickness (mm)	Material
Pedestrian & Cycling Routes	Wearing Course	20mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 6mm N.S. aggregate, 100 pen binder.
	Basecourse	60mm	Dense bitumen macadam (B.S. 4987: Part 1: 1993) 20mm N.S. aggregate, 100 pen binder.
	Sub-base	225mm	Granular sub-base material Type 1 (Cl.803 DTp Spec)
Sub-base thickness can be increased and capping layer omitted for CBR values> 2% (see section 3.2.2)			

Section 7.0 Drawing no. TRD/7/50