

8.3 IMPLEMENTATION AND PHASING OF PROPOSALS

A number of road infrastructure projects have been identified as part of the development of the Roads Master Plan. These prioritisation of these projects will require evaluation based on the following:

- **Western Cape Government (WCG) Construction Projects**
WCG has an on-going programme for road infrastructure projects, refer to Section 8.3.1.
Note, projects listed in Table 8.1 where the roads authority is the PGWC, will be prioritised in conjunction with the Provincial authority.
- **Private Development Driven Projects**
Road infrastructure partly or fully financed by private developer contributions.
- **Local Improvement Projects**
Local intersection/road improvement projects identified in this and previous studies.
- **Short Term Projects (0 to 5 Years)**
Projects already on capex budget or for which funds would be negotiated in the next 5 years. These projects carry the highest priority based on demand outputs from the EMME/4 model together with working knowledge. The majority of these projects have already had engineering design input (i.e. preliminary drawings prepared, public consultation, etc.) and merely need to go out to tender and constructed.
- **Medium Term Projects (5 to 10 Years)**
Projects which form part of the future RMP for SMA, but are only required once other more urgent projects are implemented. Planning for these projects can only start once the 1-5 year projects have been constructed. They also include projects which might require extensive environmental assessments and/or public participation.
- **Long Term Project (>10 years)**
This timeframe includes projects which are needed in the future according to the model, but are not essential. These projects could be linked to future developments.
- **Capital budget**
The available capital budget of the municipality will lastly inform the prioritisation of future projects.

Prioritisation of projects were not undertaken as part of this RMP update. High and medium priority projects are however noted.

8.4 COST ESTIMATES

Refer to Table 8-2 for the high-level cost estimates of the various road infrastructure projects. It must be noted that these values should be used with caution. The cost estimates should be revised as and when a project develops further. The projects costs were estimated as follows:

- Construction rates of the ongoing Annandale Road upgrade were used
- Prelim & general: 15%
- Services: 5%
- Contingencies: 15%

The high-level cost estimates does not include the following:

- Engineering design incl. contract management
- Specialist studies, e/g. Environmental Impact Assessment, Heritage, etc.
- Relocation, placement or replacement of service (major or minor) or drainage structures.
- Land expropriation.
- Escalation.

Table 8-2: High-level costing of 2018 RMP road upgrade proposals

PROJECT REFERENCE NUMBER	ROAD NAME	ROAD AUTHORITY	LENGTH (+/- km)	PROPOSED CLASSIFICATION	CROSS SECTION	2018 COST ESTIMATE (ROADWORKS)	2018 COST ESTIMATE (ROADWORKS)	2018 COST ESTIMATE (P&G)	2018 COST ESTIMATE (SERVICES)	2018 COST ESTIMATE (CONTINGENCIES)	2018 COST ESTIMATE (SUBTOTAL)	2018 COST ESTIMATE (VAT)	2018 COST ESTIMATE (TOTAL)
						ROADWORKS	BRIDGES						
SRMP001	Western bypass	PGWC	6.0	Class 2, Urban Major Arterial	Dual Carriageway	R 47 319 240	R 27 000 000	R 11 147 886	R 3 715 962	R 11 147 886	R 100 330 974	R 15 049 646	R 115 400 000
SRMP002	Western bypass	PGWC	4.0	Class 2, Urban Major Arterial	Single Carriageway	R 25 245 040	R 36 000 000	R 9 186 756	R 3 062 252	R 9 186 756	R 82 680 804	R 12 402 121	R 95 100 000
SRMP003	Western bypass	PGWC	6.4	Class 2, Urban Major Arterial	Single Carriageway	R 40 392 064	R 54 000 000	R 14 158 810	R 4 719 603	R 14 158 810	R 127 429 287	R 19 114 393	R 146 600 000
SRMP004	Kromme Rhee Road	PGWC	3.5	Class 2, Urban Major Arterial	Dual Carriageway	R 14 337 164	R 18 000 000	R 4 850 575	R 1 616 858	R 4 850 575	R 43 655 172	R 6 548 276	R 50 300 000
SRMP005	R44	Stellenbosch	N/a	Class 2, Urban Major Arterials	-	tbc		tbc	tbc	tbc	tbc	tbc	tbc
SRMP006	R44	Stellenbosch	N/a	Class 2, Urban Major Arterials	-	R 2 778 117		R 416 718	R 138 906	R 416 718	R 3 750 459	R 562 569	R 4 400 000
SRMP007	Bottelary Road	PGWC	1.0	Class 2, Urban Major Arterials	Dual Carriageway	R 21 354 610		R 3 203 192	R 1 067 731	R 3 203 192	R 28 828 725	R 4 324 309	R 33 200 000
SRMP008	R44/R310	Stellenbosch	N/a	Class 2, Urban Major Arterials	-	R 1 115 895		R 167 384	R 55 795	R 167 384	R 1 506 458	R 225 969	R 1 800 000
SRMP009	Adam Tas	Stellenbosch	N/a	Class 2, Urban Major Arterials	-	R 1 727 618		R 259 143	R 86 381	R 259 143	R 2 332 285	R 349 843	R 2 700 000
SRMP010	R44	PGWC	N/a	Class 2, Urban Major Arterials	Dual Carriageway	R 21 943 270		R 3 291 491	R 1 097 164	R 3 291 491	R 29 623 416	R 4 443 512	R 34 100 000
SRMP011	R44	PGWC	N/a	Class 2, Urban Major Arterials	Dual Carriageway	R 21 943 270		R 3 291 491	R 1 097 164	R 3 291 491	R 29 623 416	R 4 443 512	R 34 100 000
SRMP012	Huguenot Road	Stellenbosch	N/a	Class 2, Urban Major Arterials	-	tbc		tbc	tbc	tbc	tbc	tbc	tbc
SRMP013	Huguenot Road	Stellenbosch	N/a	Class 2, Urban Major Arterials	-	tbc		tbc	tbc	tbc	tbc	tbc	tbc
SRMP014	Huguenot Road	Stellenbosch	N/a	Class 2, Urban Major Arterials	-	tbc		tbc	tbc	tbc	tbc	tbc	tbc
SRMP015	Huguenot Road	Stellenbosch	N/a	Class 2, Urban Major Arterials	-	tbc		tbc	tbc	tbc	tbc	tbc	tbc
SRMP016	Huguenot Road	Stellenbosch	N/a	Class 2, Urban Major Arterials	-	tbc		tbc	tbc	tbc	tbc	tbc	tbc
SRMP017	Lambrechts Road	Stellenbosch	N/a	Class 2, Urban Major Arterials	-	tbc		tbc	tbc	tbc	tbc	tbc	tbc
SRMP018	R44	PGWC	3.3	Class 2, Urban Major Arterials	Dual Carriageway	R 10 120 506		R 1 518 076	R 506 025	R 1 518 076	R 13 662 683	R 2 049 402	R 15 800 000
SRMP020	R44	PGWC	N/a	Class 2, Urban Major Arterials	Dual Carriageway & median IRT Lanes	tbc		tbc	tbc	tbc	tbc	tbc	tbc
SRMP021	R310	PGWC	N/a	Class 2, Urban Major Arterials	Dual Carriageway & median IRT Lanes	tbc		tbc	tbc	tbc	tbc	tbc	tbc
SRMP022	Western bypass	PGWC	12.4	Class 2, Urban Major Arterials	Dual Carriageway	R 40 392 064	R 40 500 000	R 12 133 810	R 4 044 603	R 12 133 810	R 109 204 287	R 16 380 643	R 125 600 000
SRMP023	Western bypass	PGWC	N/a	Class 2, Urban Major Arterials	-	R 1 659 125	R 22 500 000	R 3 623 869	R 1 207 956	R 3 623 869	R 32 614 819	R 4 892 223	R 37 600 000
SRMP024	Western bypass	PGWC	N/a	Class 2, Urban Major Arterials	-	R 1 659 125	R 22 500 000	R 3 623 869	R 1 207 956	R 3 623 869	R 32 614 819	R 4 892 223	R 37 600 000
SRMP025	Western bypass	PGWC	N/a	Class 2, Urban Major Arterials	-	R 1 659 125	R 45 000 000	R 6 998 869	R 2 332 956	R 6 998 869	R 62 989 819	R 9 448 473	R 72 500 000
SRMP027	R45	PGWC	9.8	Class 2, Urban Major Arterial	Single Carriageway	R 61 850 348		R 9 277 552	R 3 092 517	R 9 277 552	R 83 497 969	R 12 524 695	R 96 100 000
SRMP028 (Full)	R304	PGWC	13.5	Class 2, Urban Major Arterial	Dual Carriageway	R 106 468 290		R 15 970 244	R 5 323 415	R 15 970 244	R 143 732 193	R 21 559 829	R 165 300 000
SRMP028 (Partial)	R304	Stellenbosch	0.75	Class 2, Urban Major Arterial	Dual Carriageway	R 5 914 905		R 887 236	R 295 745	R 887 236	R 7 985 122	R 1 197 768	R 9 200 000
SRMP029	Vlaeberg Road	PGWC	0.9	Class 3, Urban Minor Arterial	Single Carriageway	N/a		N/a	N/a	N/a	N/a	N/a	N/a
SRMP030	Welgevonden Boulevard	Stellenbosch	1.4	Class 3, Urban Minor Arterial	Single Carriageway	R 7 863 912		R 1 179 587	R 393 196	R 1 179 587	R 10 616 282	R 1 592 442	R 12 300 000

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						ROADWORKS	BRIDGES						
SRMP033	Robertsvei Road	PGWC	10.3	Class 3, Rural Minor Arterials	Single Carriageway	R 42 288 298		R 6 343 245	R 2 114 415	R 6 343 245	R 57 089 203	R 8 563 380	R 65 700 000
SRMP034	Groenfontein Road	Stellenbosch	5.3	Class 3, Urban Minor Arterials	Single Carriageway	R 29 770 524	R 18 000 000	R 7 165 579	R 2 388 526	R 7 165 579	R 64 490 208	R 9 673 531	R 74 200 000
SRMP035	George Balke Road	Stellenbosch	N/a	Class 3, Urban Minor Arterials	-	R 1 659 125	R 18 000 000	R 2 948 869	R 982 956	R 2 948 869	R 26 539 819	R 3 980 973	R 30 600 000
SRMP037	tbc	PGWC	-	tbc	Single Carriageway	N/a		N/a	N/a	N/a	N/a	N/a	N/a
SRMP038	Old Paarl Road	PGWC	-	Class 3, Urban Minor Arterial	Single Carriageway	R 6 308 292		R 946 244	R 315 415	R 946 244	R 8 516 195	R 1 277 429	R 9 800 000
SRMP039	Stellenbosch Arterial	PGWC	-	Class 3, Urban Minor Arterial	Single Carriageway	R 6 308 292		R 946 244	R 315 415	R 946 244	R 8 516 195	R 1 277 429	R 9 800 000
SRMP040	Annandale Road	PGWC	-	Class 3, Urban Minor Arterial	Single Carriageway	N/a		N/a	N/a	N/a	N/a	N/a	N/a
SRMP041	Groenfontein Road	PGWC	-	Class 3, Urban Minor Arterial	Single Carriageway	R 9 462 438		R 1 419 366	R 473 122	R 1 419 366	R 12 774 292	R 1 916 144	R 14 700 000
SRMP042	Sandringham Road	PGWC	-	Class 3, Urban Minor Arterial	Single Carriageway	N/a		N/a	N/a	N/a	N/a	N/a	N/a
SRMP043	Baden Powell Drive	PGWC	-	Class 3, Rural Minor Arterials	Single Carriageway	N/a		N/a	N/a	N/a	N/a	N/a	N/a
SRMP044	Robertsvei Road	PGWC	-	Class 3, Rural Minor arterials	Single Carriageway	R 6 864 906		R 1 029 736	R 343 245	R 1 029 736	R 9 267 623	R 1 390 143	R 10 700 000
SRMP045	Winery Road / Main Street	PGWC	1.3	Class 3, Urban Minor Arterials	Single Carriageway	R 7 302 204		R 1 095 331	R 365 110	R 1 095 331	R 9 857 976	R 1 478 696	R 11 400 000
SRMP047	R44 / Stellenbosch Airport Service Road	Stellenbosch	0.2	Class 4, Urban Collector Streets	Single Carriageway	R 1 233 972		R 185 096	R 61 699	R 185 096	R 1 665 863	R 249 879	R 2 000 000
SRMP048	R44 link / Stellenrust Rd link	Stellenbosch	0.7	Class 4, Urban Collector Streets	Single Carriageway	R 4 318 902		R 647 835	R 215 945	R 647 835	R 5 830 517	R 874 578	R 6 800 000
SRMP049	New Jamestown Road	Stellenbosch	3	Class 4, Urban Collector Streets	Dual Carriageway	R 22 881 090	R 18 000 000	R 6 132 164	R 2 044 055	R 6 132 164	R 55 189 473	R 8 278 421	R 63 500 000
SRMP050	School Road	Stellenbosch	1.5	Class 4, Urban Collector Streets	Single Carriageway	R 9 254 790		R 1 388 219	R 462 740	R 1 388 219	R 12 493 968	R 1 874 095	R 14 400 000
SRMP051	Pajaro Avenue	Stellenbosch	2.3	Class 4, Urban Collector Streets	Single Carriageway	R 14 190 678	R 18 000 000	R 4 828 602	R 1 609 534	R 4 828 602	R 43 457 416	R 6 518 612	R 50 000 000
SRMP052	Eastern Link Rd (Wildebosch South)	Stellenbosch	0.95	Class 4, Urban Collector Streets	Single Carriageway	R 5 861 367		R 879 205	R 293 068	R 879 205	R 7 912 845	R 1 186 927	R 9 100 000
SRMP053	Eastern Link Rd (Wildebosch North)	Stellenbosch	2.5	Class 4, Urban Collector Streets	Single Carriageway	R 15 424 650		R 2 313 698	R 771 233	R 2 313 698	R 20 823 279	R 3 123 492	R 24 000 000
SRMP054	Van Reede Road	Stellenbosch	2.3	Class 4, Urban Collector Streets	Single Carriageway	R 14 190 678		R 2 128 602	R 709 534	R 2 128 602	R 19 157 416	R 2 873 612	R 22 100 000
SRMP055	Van Reede Road	Stellenbosch	0.6	Class 4, Urban Collector Streets	Single Carriageway	R 3 701 916		R 555 287	R 185 096	R 555 287	R 4 997 586	R 749 638	R 5 800 000
SRMP056	Suidwal Road	Stellenbosch	0.4	Class 4, Urban Local Streets	Single Carriageway	R 1 596 812		R 239 522	R 79 841	R 239 522	R 2 155 697	R 323 355	R 2 500 000
SRMP057	Stellentia Road	Stellenbosch	0.2	Class 4, Urban Collector Streets	Single Carriageway	R 1 233 972		R 185 096	R 61 699	R 185 096	R 1 665 863	R 249 879	R 2 000 000
SRMP058	Pastorie Street	Stellenbosch	0.2	Class 4, Urban Collector Streets	Single Carriageway	R 1 233 972	R 18 000 000	R 2 885 096	R 961 699	R 2 885 096	R 25 965 863	R 3 894 879	R 29 900 000
SRMP062	-	Stellenbosch	3.7	Class 4, Urban Collector Streets	Single Carriageway	R 22 828 482	R 18 000 000	R 6 124 272	R 2 041 424	R 6 124 272	R 55 118 450	R 8 267 768	R 63 400 000

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						ROADWORKS	BRIDGES						
SRMP063	Simonsberg Street	Stellenbosch	2.1	Class 4, Urban Collector Streets	Single Carriageway	R 12 956 706		R 1 943 506	R 647 835	R 1 943 506	R 17 491 553	R 2 623 733	R 20 200 000
SRMP064	Sonnestraat Street	Stellenbosch	1	Class 4, Urban Collector Streets	Single Carriageway	R 6 169 860	R 18 000 000	R 3 625 479	R 1 208 493	R 3 625 479	R 32 629 311	R 4 894 397	R 37 600 000
SRMP066	Main Road	Stellenbosch	3	Class 4, Urban Collector Streets	Single Carriageway	R 18 509 580		R 2 776 437	R 925 479	R 2 776 437	R 24 987 933	R 3 748 190	R 28 800 000
SRMP067	Dirkie Uys Street	Stellenbosch	1.4	Class 4, Urban Collector Streets	Single Carriageway	R 8 637 804		R 1 295 671	R 431 890	R 1 295 671	R 11 661 036	R 1 749 155	R 13 500 000
SRMP068	Nerina Street	Stellenbosch	1.1	Class 4, Urban Collector Streets	Single Carriageway	R 6 786 846		R 1 018 027	R 339 342	R 1 018 027	R 9 162 242	R 1 374 336	R 10 600 000
SRMP069	The Avenue	Stellenbosch	0.1	Class 4, Urban Collector Streets	Single Carriageway	R 616 986	R 9 000 000	R 1 442 548	R 480 849	R 1 442 548	R 12 982 931	R 1 947 440	R 15 000 000
SRMP070	Vlottenburg Road	Stellenbosch	0.3	Class 4, Urban Collector Streets	Single Carriageway	N/a		N/a	N/a	N/a	N/a	N/a	N/a
SRMP071	Trumali Street	Stellenbosch	0.6	Class 4, Urban Collector Streets	Single Carriageway	R 3 701 916		R 555 287	R 185 096	R 555 287	R 4 997 586	R 749 638	R 5 800 000
SRMP072	-	Stellenbosch	2.2	Class 4, Urban Collector Streets	Single Carriageway	R 13 573 692		R 2 036 054	R 678 685	R 2 036 054	R 18 324 485	R 2 748 673	R 21 100 000
SRMP073	Stellenrust Road	PGWC	3	Class 4, Urban Collector Streets	Single Carriageway	R 18 509 580		R 2 776 437	R 925 479	R 2 776 437	R 24 987 933	R 3 748 190	R 28 800 000
SRMP076	Dorp Street	Stellenbosch	0.3	Class 4, Urban Collector Streets	Dual Carriageway	R 2 288 109		R 343 216	R 114 405	R 343 216	R 3 088 946	R 463 342	R 3 600 000
SRMP077	Schuilplaats Rd	Stellenbosch	0.3	Class 4, Urban Collector Streets	Single Carriageway	R 1 850 958		R 277 644	R 92 548	R 277 644	R 2 498 794	R 374 819	R 2 900 000
SRMP078	Lanquedoc access Rd	Stellenbosch	0.25	Class 4, Urban Collector Streets	Single Carriageway	R 1 542 465	R 18 000 000	R 2 931 370	R 977 123	R 2 931 370	R 26 382 328	R 3 957 349	R 30 400 000
tbc	Ben du Toit Extension	Stellenbosch	0.6	Class 4, Urban Collector Streets	Single Carriageway	R 3 701 916		R 555 287	R 185 096	R 555 287	R 4 997 586	R 749 638	R 5 800 000
tbc		Stellenbosch	tbc	Class 4 and/or Class 5	tbc	tbc		tbc	tbc	tbc	tbc	tbc	tbc
tbc		Stellenbosch	tbc	Class 4 and/or Class 5	tbc	tbc		tbc	tbc	tbc	tbc	tbc	tbc
tbc		Stellenbosch	tbc	Class 4 and/or Class 5	tbc	tbc		tbc	tbc	tbc	tbc	tbc	tbc
tbc		Stellenbosch	tbc	Class 4 and/or Class 5	tbc	tbc		tbc	tbc	tbc	tbc	tbc	tbc
tbc		Stellenbosch	tbc	Class 4 and/or Class 5	tbc	tbc		tbc	tbc	tbc	tbc	tbc	tbc