REPUBLIC OF KENYA

A ROAD NETWORK DEVELOPMENT MASTER PLAN STUDY

FINAL REPORT

VOLUME II ANNEX II:

TECHNICAL ASSESSMENT OF THE EXISTING ROAD NETWORK

MAY 1995

JAPAN INTERNATIONAL COOPERATION AGENCY

MINISTRY OF PUBLIC WORKS AND HOUSING

PACIFIC CONSULTANTS INTERNATIONAL (PCI)
CONSTRUCTION PROJECT CONSULTANTS (CPC)

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The following foreign exchange rate is applied in the study:
US$1.00=60.15Ksh (as of November 1994)

ANNEX 2. TECHNICAL ASSESSMENT ON EXISTING ROAD CONDITIONS

I. EXISTING ROAD CONDITIONS

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I. EXISTING ROAD CONDITIONS

DESCRIPTION

The major outputs from the road inventory survey as explained in Chapter 4.2 of Volume I are tabulated:

1) Road Class
2) Existing Surface: Paved, Gravel, Earth
3) MOPWH Road Code, Section Number
4) Road Link Length
5) Rise + Fall
6) Carriageway Width (C/W-Width)
7) Shoulder Width (S-Width)
8) Number of Traffic Lanes
9) Surfacing Type:
   - Surface Dressing ---------- 1
   - Premixed Asphalt Concrete ----- 2
10) Thickness of New Surface Layer
11) Thickness of Old Surface Layer
12) Base Course Type
   - Granular Base ----- 1
   - Cement Stabilized ----- 2
   - Bitumen Stabilized ----- 3
13) Base Course Thickness
14) Subgrade CBR
15) Surface Roughness

EXISTING ROAD CONDITION (MARCH 1994)

CLASS A PAVED

PAVED GRAVEL EARTH	No.	MOPW Road Code	RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W Width m	S-Width m	Lanes	Surface Type Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
P	12	850	A	1	80	381	7	6	0.5	2	1		20	1	130	7	NA
P	10	760	A	1	62	5.8	22	6	1	2	1	25	25	1	400		9
P	7	940	A	1	41	20	29	5.9	1.2	2	2	50	25	2	130		5
P	3	610	A	1	20	31	37	6.2	1.5	2	1	20	25	2	150		8
P	8	910	A	1	50	30.3	20	5.8	1	2	1	25	25	1	130		6
P	4	620	A	1	31	62.5	12	6.2	1.5	2	1	20	25	1	150		NA
P	9	760	A	1	61	56	10	5.9	1	2	1	25	25	1	400		9
P	5	620	A	1	32	5.6	20	6.5	1.5	2	2	50	25	1	300		4
P	6	930	A	1	40	61.4	23	5.8	1	2	1	25	25	1	260		5
P	1	660	A	1	11	69	26	6.5	2	2	2		50	3	125		NA
P	11	860	A	1	70	102.3	29	6	0.5	2	1		20	1	130	10	NA
P	2	640	A	1	12	42	25	6.2	1.5	2	2		50	3	175		NA
P	23	460	A	2	60	73	25	6.4	2.1	2	1	20	20	2	130	8	6
P	14	110	A	2	2	20	20	6.5	1.8	2	2		1	2	200		4
P	21	250	A	2	40	74.2	17	6.7	1.5	2	1		30	1	300	5	12
P	25	450	A	2	90	9.5	38	5	1	2	1		20	2	130		NA
P	22	730	A	2	50	3.8	19	6.8	5	2	1	20	20	2	130	18	8
P	13	110	A	2	1	15.4	21	6.8	2.2	2	2		50	2	200		4
P	15	210	A	2	11	28.1	18	6.6	1.9	2	2		50	2	200		6

PAVED GRAVEL EARTH	No.	MOPW Road Code	RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W Width m	S-Width m	Lanes	Surface Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
P	20	220	A	2	30	37.7	8	7.1	1.8	2	1	35	20	2	150		6
P	19	230	A	2	20	39.5	25	6.8	2.7	2	2	35	20	1	130		7
P	18	210	A	2	14	5	16	7	1	2	2		50	2	200		5
P	24	420	A	2	70	9	2	5.9	1.4	2	1		20	2	130		8
P	16	210	A	2	12	28.1	18	6.7	1.9	2	2		50	2	200		6
P	17	210	A	2	13	5	16	7	1.03	2	2		50	2	200		6
P	32	360	A	3	40	25.5	4	6.8	1.3		1		25	1	250		NA
P	29	440	A	3	22	12	6	6.8	1.2	2	1	20	20	2	150		9
P	31	430	A	3	32	41.9	15	6.8	1.3		1		25	1	250		NA
P	33	510	A	3	50	3	NA	6.5	1.5	2	1	20	25	2	150		NA
P	26	210	A	3	11	13.1	3	6.8	1.3		1	20	25	1	150		NA
P	27	210	A	3	12	23.7	6	6.8	1.3		1	20	25	1	150		NA
P	30	430	A	3	31	10.8	7	6.8	1.3		1	20	20	2	150		6
P	28	440	A	3	21	33.1	5	6.8	1.3		1	20	20	2	150		NA
P	36	340	A	14	22	8.4	7	7.7	2.1	2	2	50	20	2	450		4
P	34	320	A	14	10	97.5	7	6.9	1.1	2	2	20	70	2	300		5
P	35	340	A	14	21	7.7	5	8.7	1.4	2	2	35	20	2	300		NA
P	37	350	A	23	1	25.2	22	6.6	1.3	2	1	30	20	2	150		8
P	47	770	A	104	51	116.3	21	6.8	1.9	2	2		50	3	150	10	4
P	42	210	A	104	31	50.8	89	7.7	1.5	2	2		140	3	150		4
P	39	440	A	104	10	15.3	10	7.2	1.9	2	2	70	100	1	200	11	2
P	49	930	A	104	61	34.1	30	7	1.4	2	2	100	25	2	220	13	3
P	38	710	A	104	1	131.5	6	6.4	1.2	2	1	20	20	1	170		4

PAVED GRAVEL EARTH	No.	MOPW Road Code	RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W Width m	S-Width m	Lanes	Surface Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
P	44	740	A	104	41	156.1	27	7.5	1.4	2	2		50	3	150		10
P	50	910	A	104	71	51.8	18	7	2	2	2		50	3	150	11	NA
P	45	740	A	104	42	16.9	6	7.2	2.6	2	2		50	3	150		4
P	46	740	A	104	43	2.7	7	7.2	2.7	2	2		50	3	150		5
P	41	110	A	104	22	25.1	3	7.7	1.5	2	2	80	100	1	130		3
P	51	920	A	104	81	15.1	18	7	2	2	2		50	3	150	19	NA
P	43	240	A	104	32	4.3	13	9.2	1.4	2	2		50	3	150		3
P	48	770	A	104	52	7.1	8	6.8	2.3	2	2		50	3	150	10	3
P	40	110	A	104	21	30	9	8.7	1.7	2	2	80	100	1	130		3
P	58	470	A	109	52	220.4	13	6.5	1.2	2	1	25	25	2	125	12	3
P	53	340	A	109	12	6.2	10	8	1.4	2	2	50	20	1	400		3
P	52	340	A	109	11	17.8	9	7.1	1.5	2	2	50	20	1	300		3
P	56	350	A	109	41	105	6	6.2	1.6	2	2	23	25	2	125	13	5
P	54	310	A	109	21	48.1	12	7.1	1.4	2	1	25	25	1	150		3
P	57	440	A	109	51	47.5	15	7.3	2	2	2		50	3	125	2	3
P	55	320	A	109	31	54.2	11	6.8	1.5	2	1	25	25	1	150		8

CLASS A UNPAVED

PAVED GRAVEL EARTH	No.	MOPW Road Code	RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W Width m	S-Width m	Lanes	Surface Type Type	Surface Type N/L mm	Surface Type O/L mm	Base/Subgrade Type	Base/Subgrade B/L mm	Base/Subgrade CBR %	Surface Roughness IRI
G	3	840	A	2	80	92	20	5	1	2							NA
G	4	450	A	2	90	370	16	5	1	2							NA
G	2	420	A	2	70	36	2	5	1	2							NA
G	5	350	A	23	1	88.8	14	5	1	2							NA
E	1	850	A	1	80	30	10	5	0	2							NA
E	4	510	A	3	50	201	NA	5	0	2							NA
E	3	360	A	3	40	89	NA	5		2							NA
E	2	430	A	3	32	116.9	18	5	0	2							NA

EXISTING ROAD CONDITION (MARCH 1994)

CLASS B PAVED

PAVED GRAVEL EARTH	No.	MOPW Road RANK	Code NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W Width m	S-Width m	Lane	Surface Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Rough. IRI
P	63	940 B	1	31	12.5	22	5.8	2.3	2	2	35	20	2	130		4
P	59	120 B	1	10	90.4	25	6.3	1.2	2	1		20	3	175		8
P	64	630 B	1	41	49.5	13	5.8	1.1	2	1		25	1	130		8
P	60	620 B	1	21	22.1	9	6	1.5	2	1		20	3	150	5	8
P	61	620 B	1	22	6.9	14	7.2	2.2	2	1		20	3	150		6
P	66	740 B	1	61	2.9	30	7	1.1	2	1		20	3	175		8
P	62	620 B	1	23	26.2	20	6	2.7	2	2	35	20	2	130		5
P	65	920 B	1	51	27	15	6.4	1.5	2	1		25	1	130		7
P	68	930 B	2	21	12	20	6	1	2	1	25	25	1	400		9
P	69	760 B	2	31	18.6	13	6	1	2	1	25	25	2	150		8
P	67	770 B	2	11	35.2	18	6	1.2	2	1	25	25	2	130		9
P	70	210 B	3	10	20	18	6.7	2.5	2	2		100	3	150		3
P	74	610 B	3	50	30.2	26	5.8	1.2	2	2	35	20	1	170		5
P	75	650 B	3	60	18	29	5.8	1	2	2	35	20	1	130		5
P	72	750 B	3	30	59.3	12	5.4	2	2	1		25	2	250		9
P	73	720 B	3	40	62	23	6.5	1.2	2	1		25	1	300		3
P	71	740 B	3	20	29.4	11	6	1.9	2	1	20	25	1	300		6
P	76	740 B	4	10	24	13	6.4	2.2	2	2	35	20	1	130		4
P	77	810 B	4	20	88.4	11	6.5	1.8	2	1		20	1	250		6
P	79	730 B	5	20	24.6	27	6.2	2.7	2	1	25	20	1	230		6

PAVED GRAVEL EARTH	No.	MOPW Road Code RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W Width m	S-Width m	Lane	Surface Type Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Rough. IRI
P	78	250 B	5	10	64.3	28	6	2.3	2	1	25	20	1	230		8
P	80	730 B	5	22	13.7	21	6.5	1.7	2	2		30	1	250		4
P	82	740 B	5	40	49.4	36	6.7	1.9	2	2		30	1	250		4
P	83	740 B	5	42	1.9	27	6.3	2.4	2	2	35	25	1	130		3
P	81	240 B	5	30	27.8	22	6.1	2.1	2	2		30	1	250		4
P	85	410 B	6	20	35.6	26	7	1.5	2	2	25	35	1	130		5
P	86	460 B	6	31	88.9	51	7.3	1.5	2	1	25	50	1	130	9	4
P	84	220 B	6	10	42.1	12	6	1.9	2	2	25	35	1	130		7
P	88	430 B	7	20	6.5	13	7.1	1.7	2	1		25	1	130	8	10
P	87	470 B	7	10	3	12	6.5	1.2	2	1		20	2	130		NA
P	90	410 B	7	40	45.5	17	6.6	1.1	2	1		25	1	250	13	7
P	89	440 B	7	30	35.5	22	6.5	1.2	2	1		25	1	275	8	4
P	92	340 B	8	12	2.6	11	7.8	2	2	2	35	25	1	200	10	3
P	93	310 B	8	20	103.5	4	6.2	1.5	2	1		25	2	130	11	6
P	91	340 B	8	11	15	5	7.9	1.6	2	2	35	25	1	200	10	4
P	94	360 B	8	30	24.5	3	5	1	2	1		25	1	275	11	NA
P	95	520 B	9	51	136.4	3	5	1	1	3		15	1	230		NA
P	96	110 B	10	1	4.3	2	7.1	1.6	2	2	50	100	1	200		3
P	97	110 B	10	2	4	2	7	2.5	2	2	50	100	1	200		3

CLASS B UNPAVED

PAVED GRAVEL EARTH	No.	MOPW Road Code RANK	NO.	SEC.	Geometry Length km	Rise+Fall m/km	C/W Width m	S-Width m	Lane	Surface Type Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Rough. IRI
G	6	750 B	3	30	41	13	5	1	2							NA
G	8	860 B	4	41	43.8	16	5	1	2							NA
G	7	810 B	4	20	118	17	4	1	1							NA
G	9	470 B	7	10	24.8	12	5	1	2							NA
G	10	310 B	8	20	52.1	9	5	1	2							NA
G	11	360 B	8	30	43.4	2	5	1	2							NA
G	15	520 B	9	51	122.4	3	5	1								NA
G	12	420 B	9	21	118	5	5	1								NA
G	13	510 B	9	31	37.1	2	5	1								NA
G	14	550 B	9	41	220	6	5	1								NA
G	14	550 B	9	41	220	6	5	1								NA
E	5	820 B	4	30	18.3	28	5	1	2							NA
E	6	430 B	7	20	157.2	13	5	0	2							NA
E	7	360 B	8	30	198.7	2	5	1	2							NA
E	8	460 B	9	11	66	8	5	1	2							NA
E	11	530 B	9	41	46	6	5	1	2							NA
E	12	520 B	9	51	14	3	5	1	2							NA
E	10	510 B	9	31	15	2	5	1	2							NA
E	9	420 B	9	21	9	5	5	1	2							NA

EXISTING ROAD CONDITION (MARCH 1994)

CLASS C PAVED

PAVED GRAVEL EARTH	No.	MOPW Road Code	RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W m	S-Wid. m	Lanes	Surface Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
P	98	750	C	12	1	34	15	5	1	2	2		25	2	150		NA
P	99	610	C	17	10	42	35	6.2	2	2	1		25	2	150		NA
P	100	750	C	17	20	11.1	26	6	1	2	1		25	2	125		NA
P	101	620	C	19	10	25.3	6	6.3	1.1	2	1		25	1	150		6
P	102	640	C	19	20	20.6	8	6	1.1	2	1		25	1	150		6
P	103	640	C	20	20	19.6	20	6.5	1	2	2	35	20	2	305		6
P	104	660	C	20	30	16.5	23	6.5	1	2	1	25	20	2	305		6
P	105	720	C	21	20	16.5	26	7.2	1.2	2	2		50	1	150		8
P	106	720	C	23	1	45.3	23	6.2	1.8	2	2	100	50	1	150		2
P	107	720	C	24	1	42.3	24	6.7	1.3	2	1		25	1	125		2
P	108	720	C	25	1	10	20	5.4	1	2	1		25	1	225		8
P	109	520	C	27	10	29.5	23	5.9	1	2	1		20	2	130		6
P	110	530	C	27	20	53	35	6.2	2	2	1		20	2	130		NA
P	112	940	C	29	30	3.5	18	6	2.2	2	1		25	1	100		8
P	111	630	C	29	10	36	25	5.8	1.5	2	1		25	2	130		8
P	114	910	C	33	20	18	17	5.9	1	2	1		25	2	130		5
P	113	930	C	33	10	16.2	17	5.9	1	2	1		25	1	150	15	6
P	115	620	C	34	10	52.2	7	6.2	1	2	2	25	25	2	150		15
P	116	720	C	34	20	8.2	26	6.5	1	2	2	25	25	1	130		12

PAVED GRAVEL EARTH	No.	MOPW Road Code	RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W m	S-Wid. m	Lanes	Surface Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
P	117	720	C	35	10	1.6	5	6.8	2.5	2	1		25	2	150		16
P	118	820	C	35	20	19	5	6.5	0	2	2		25	1	130		8
P	119	830	C	36	11	30.9	22	6	1	2	1		20	1	150		10
P	120	770	C	36	21	22.5	22	6.2	1.2	2	1		20	1	150		10
P	121	620	C	37	10	19.8	12	6.3	1.4	2	1	25	20	1	150		10
P	122	236	C	37	20	39.9	27	6.2	2	2	1	25	20	2	150		9
P	123	940	C	38	1	16.6	30	5.7	1.5	2	1		20	2	130		6
P	126	830	C	39	20	50.2	22	5.6	1.2	2	1	25	20	1	130		11
P	125	770	C	39	12	18.8	15	5.6	1	2	1	25	20	1	150		7
P	128	630	C	39	40	4.4	27	5.1		2	2	35	20	2	125		7
P	127	940	C	39	30	29.1	16	5.5	1.3	2	1	25	20	1	130		7
P	124	770	C	39	11	2.2	15	7.1	1.1	2	1	25	20	1	150		7
P	129	930	C	40	1	31	14	6.4	1	2	1		30	1	300		4
P	130	910	C	42	1	8.3	25	5			1		20	1	130		NA
P	132	760	C	45	2	18.7	6	5.6	1	2	1	20	25	1	130		13
P	131	760	C	45	1	2.5	8	5.6	1	2	1	20	25	1	130		10
P	133	850	C	47	1	18.2	NA	6	0	0	1		25	1	300		NA
P	136	820	C	51	20	50.4	28	6.5	1	2	1		25	1	150		5
P	134	770	C	51	11	3.1	23	5.5	1.8	2	1	25	25	1	150		9
P	138	730	C	51	40	39.6	24	5			1	25	25	1	150		NA
P	135	770	C	51	12	24	5	5.8	1.2	2	1	25	25	1	150		12
P	137	810	C	51	30	66	59	6.7	1.6	2	1		25	1	150		5
P	139	820	C	53	20	16.5	4	6	1.1	2	1		20	1	275		5
P	141	770	C	54	12	32	18	6	1	2	2	25	50	1	130		6

PAVED GRAVEL EARTH	No.	MOPW Road Code RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W m	S-Wid. m	Lanes	Surface Type Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
P	140	770 C	54	11	0.8	18	6.3	1	2	2	25	50	1	130		6
P	142	820 C	54	20	8.6	18	6	1	2	2		50	1	125		6
P	144	810 C	55	20	59.7	17	6.6	1.7	2	2	20	25	1	130		5
P	143	740 C	55	10	10.2	0	6.2	2	2	2	20	25	1	130		8
P	145	820 C	55	30	11.5	1	6.5	1.6	2	2		20	1	125		4
P	146	740 C	56	1	57.4	26	6.3	2.4	2	2	20	25	1	150		10
P	147	750 C	57	11	2	22	6.2	2.5	2	2		25	1	150		3
P	148	740 C	57	20	38.8	22	6.1	1.9	2	1		25	1	150		8
P	149	110 C	58	10	13	11	6.5	1.4	2	2	35	50	1	200		4
P	150	710 C	58	20	97.6	26	5.3	1.3	2	2		25	1	150		7
P	151	110 C	59	1	14.6	10	8	2.4	2	2	80	40	1	300		3
P	152	110 C	60	10	13.5	14	5.8	3.4	2	2	60	20	1	175		5
P	153	710 C	60	20	4.9	26	7.1	2.4	2	2	60	20	1	175		5
P	154	110 C	61	1	13.5	21	8	2.4	2	2	35	50	1	200		4
P	155	110 C	62	10	11.5	21	6.8	3	2	2	35	75	1	130		3
P	156	110 C	62	20	21.5	30	6.8	2.1	2	2	35	75	1	130		6
P	158	210 C	63	20	51.4	31	6.1	1.7	2	1		20	1	130		7
P	157	110 C	63	10	15.5	13	5.8	1.2	2	2	35	25	1	200		3
P	159	110 C	64	10	5.5	23	5.6	2.6	2	2	35	20	1	125		3
P	160	210 C	64	20	39.8	30	5.5	1.7	2	1		20	1	125		11
P	161	210 C	65	1	45.5	21	5.9	1.8	2	1		25	1	150		16
P	162	210 C	66	10	65	16	5.8	1.7	2	1	20	25	1	250		8
P	163	240 C	66	20	4.5	10	5.4	2.3	2	1	20	25	1	250		6
P	164	230 C	67	10	31.1	16	5	2	2	1		25	1	225		12

PAVED GRAVEL EARTH	No.	MOPW Road Code RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W m	S-Wid. m	Lanes	Surface Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
P	166	740 C	67	30	6.9	38	6	1.8	2	1		25	1	100		8
P	165	240 C	67	20	5.1	11	5			1		25	1	225		NA
P	167	240 C	68	1	18.1	13	6.5	1.7	2	1		25	2	125		7
P	168	740 C	69	10	17.6	31	5.3	1.7	2	1	20	25	2	150		8
P	169	240 C	69	20	2	20	5.5	2.2	2	1		25	2	150		16
P	171	250 C	70	20	23	42	6.1	1.2	2	1	20	20	1	150		5
P	170	230 C	70	10	33	18	6.2	1.8	2	2	25	20	1	150		10
P	172	230 C	71	1	29	26	6.3	1.7	2	2	35	20	2	150		9
P	173	230 C	72	1	25.1	24	5.6	1.4	2	2		25	1	225		10
P	175	230 C	73	20	12.1	28	5.8	1	2	1	25	20	2	110		8
P	174	220 C	73	10	22.8	16	6.1	1.3	2	1	25	20	2	150		5
P	177	220 C	74	20	24	28	6.1	1.5	2	1		20	1	150		4
P	176	250 C	74	10	4	NA	6.1	1	2	1		20	2	130		6
P	178	250 C	75	1	9.2	19	6.1	1.8	2	1	25	20	2	150		8
P	179	730 C	76	10	3	11	5.7	1.3	2	1		20	2	125		10
P	180	740 C	77	10	18.1	22	6	2.2	2	2	35	20	1	130		8
P	181	240 C	77	20	52	14	6	2.2	2	1	25	20	1	130		12
P	182	730 C	77	30	39.7	7	6.1	1.7	2	1		20	1	130		8
P	184	240 C	83	20	9	41	5			1		25	2	125		NA
P	183	740 C	83	10	2	67	5			1		25	2	125		NA
P	185	620 C	84	1	1.5	NA	5			1	25	20	1	200		NA
P	186	620 C	85	1	3	NA	7.6	2.5	2	2	35	20	1	150		3
P	187	620 C	86	1	11.4	33	6.2	1	2	1	25	25	1	150		6
P	188	620 C	87	1	1	19	5.7	1	2	1		25	1	150		8

PAVED GRAVEL EARTH	No.	MOPW Road Code RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W m	S-Wid. m	Lanes	Surface Type Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
P	189	740 C	88	1	39.9	14	6.3	2.1	2	1		75	1	200		13
P	190	110 C	89	1	4.5	3	7	1.9	2	2	25	40	1	200		4
P	191	460 C	91	1	50.7	15	8.1	1.4	2	1	20	20	1	150		6
P	193	430 C	97	20	25.5	7	7	1.1	2	1		20	1	130		4
P	192	440 C	97	10	85.5	15	6.3	1.2	2	1		20	1	130		11
P	194	110 C	98	10	25	7	7	1.5	2	2	25	25	1	130		11
P	195	440 C	98	20	36.6	6	5.8	1.7	2	1		25	1	225		8
P	196	440 C	99	1	29.8	47	5.8	1.6	2	1		20	1	200		10
P	197	710 C	102	1	12	13	5			1		25	2	130	NA	
P	198	310 C	103	30	7	1.7	5	0.5	2	1		25	2	125		3
P	199	350 C	104	1	15.5	38	6.1	1	2	1		25	2	150	NA	
P	200	350 C	105	1	6.5	18	6.5	1.3	2	1		25	2	250		4
P	201	320 C	106	1	18	20	6	1.1	2	1		25	2	275		6
P	202	340 C	109	1	0.7	0	7.6	1.4	2	1		25	2	130		4
P	203	340 C	110	1	4.9	1	7.6	1.7	2	2		50	1	200		4
P	204	310 C	111	1	21.2	22	6.5	1.2	2	1	25	20	1	200		8
P	205	360 C	112	10	29	0	5	NA	2	1		25	2	125	NA	
P	207	340 C	114	2	6.5	2	8.2	1.5	2	2	100	50	1	200		3
P	206	340 C	114	1	6.7	20	8.1	1.7	2	2	100	50	1	200		3
P	208	110 C	294	2	1.2	10	6.7	1.5	2	1		20	1	175		4
P	209	110 C	396	1	1.3	11	5.7	1.3	2	2		20	1	175		11

CLASS C UNPAVED

PAVED GRAVEL EARTH	No.	MOPW Road Code RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W m	S-Wid. m	Lanes	Surface Type Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
G	16	750 C	11	1	74.1	16	5	1	2							NA
G	17	750 C	12	1	65.5	15	5	1	2							NA
G	19	660 C	13	20	72.1	13	4	0	1							NA
G	18	750 C	13	10	86	17	5	1	2							NA
G	21	720 C	14	20	57.8	16	5	1	2							NA
G	20	750 C	14	10	14	18	5	1	2							NA
G	22	720 C	15	1	28.8	26	5	1	2							NA
G	23	610 C	16	1	28.8	27	5	1	2							NA
G	24	640 C	18	1	81.7	19	5	0	2							NA
G	25	640 C	19	20	70	8	5	1	2							NA
G	26	610 C	20	10	14.2	58	5	0	2							
G	27	650 C	21	10	50.2	28	5	1	2							NA
G	28	650 C	22	1	38.5	30	5	1	2							NA
G	29	720 C	25	1	26	20	5	0	2							NA
G	30	640 C	26	1	21	16	5	0	2							NA
G	31	630 C	28	1	84	15	5	1	2							NA
G	32	630 C	29	10	25	12	5	1	2							NA
G	35	930 C	30	30	8	11	5	0								NA
G	33	630 C	30	10	1.5	16	5	1	2							NA
G	34	920 C	30	20	27.1	14	4	0	1							NA
G	36	920 C	31	10	31.6	11	4	0	1							NA

PAVED GRAVEL EARTH	No.	MOPW Road Code				Length	Geometry Rise+Fall	C/W	S-Wid.	Lanes	Surface Type			Base/Subgrade			Surface Roughness
			RANK	NO.	SEC.	km	m/km	m	m		Type	N/L mm	O/L mm	Type	B/L mm	CBR %	IRI
G	37	920	C	32	11	13.6	9	5	0	2							NA
G	38	920	C	32	12	12.6	41	5	0	2							NA
G	40	910	C	32	22	5	0	5	1	2							NA
G	39	910	C	32	21	15.9	12	4	1	1							NA
G	42	940	C	33	11	3	54	4	0	1							NA
G	43	910	C	33	20	23	17	5	0	2							NA
G	41	930	C	33	10	16	17	4	0	1							NA
G	44	720	C	35	10	49.4	5	5	1	2							NA
G	45	620	C	35	20	5	5	5	1	2							NA
G	47	770	C	37	30	10.5	22	5	1	2							NA
G	46	830	C	37	20	52	27	5	1	2							NA
G	48	940	C	39	30	19.1	16	5		2							NA
G	49	930	C	41	10	27.9	24	5		2							NA
G	50	910	C	41	20	15.9	24	5		2							NA
G	51	910	C	42	1	44.4	25	4	1	1							NA
G	52	920	C	43	1	19	10	6	1	2							NA
G	53	910	C	44	20	17.3	13	5	0.5	2							NA
G	54	760	C	44	30	28.5	30	5		2							NA
G	55	760	C	45	2	27.3	6	4		1							NA
G	56	760	C	48	12	44.7	24	5		2							NA
G	57	770	C	48	31	18.9	23	5	2	2							NA
G	58	770	C	50	1	51.7	9	5	1	2							NA
G	60	820	C	53	20	56.9	4	5		2							NA
G	59	770	C	53	10	11	40	5	1	2							NA

PAVED GRAVEL EARTH	No.	MOPW Road Code	RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W m	S-Wid. m	Lanes	Surface Type Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
G	61	820	C	54	20	24.7	18	5	0.5	2							NA
G	62	750	C	57	11	62	22	5	1	2							NA
G	63	210	C	63	20	2.2	19	5	1	2							NA
G	64	210	C	64	20	13.2	30	5	1	2							NA
G	67	740	C	67	30	11	38	5	1	2							NA
G	65	230	C	67	10	15.4	16	5	1	2							NA
G	66	240	C	67	20	24.9	11	5	1	2							NA
G	68	240	C	69	20	80	20	5	1	2							NA
G	69	230	C	70	10	23	44	5	1	2							NA
G	70	730	C	76	10	76	11	5	0.5	2							NA
G	71	240	C	76	20	12	5	5	1	2							NA
G	72	730	C	77	30	73.3	7	5	1	2							NA
G	73	840	C	77	40	119	22	5	1	2							NA
G	74	840	C	78	1	92.7	15	5	0.5	2							NA
G	75	840	C	79	1	44	16	5	0.5	2							NA
G	76	240	C	83	20	21.7	41	5	0.5	2							NA
G	77	620	C	85	1	2.9	16	5	1	2							NA
G	78	630	C	90	10	24.8	20	5	1	2							NA
G	79	920	C	90	20	3	8	5	1	2							NA
G	80	410	C	92	10	41	29	5	1	2							NA
G	81	460	C	92	20	68	24	5	1	2							NA
G	82	430	C	93	10	58	21	5	1	2							NA
G	83	410	C	93	20	4	27	5	1	2							NA
G	84	430	C	94	1	42.7	13	5	1	2							NA

PAVED GRAVEL EARTH	No.	MOPW Road Code	RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W m	S-Wid. m	Lanes	Surface Type Type	Surface Type N/L mm	Surface Type O/L mm	Base/Subgrade Type	Base/Subgrade B/L mm	Base/Subgrade CBR %	Surface Roughness IRI
																	NA
G	85	430	C	96	1	45	6	6	1	2							NA
G	86	440	C	98	20	20	6	5	1	2							NA
G	87	440	C	99	1	20.5	47	5	1	2							NA
G	88	470	C	99	2	109	NA	5	1	2							NA
G	89	440	C	100	1	32.2	6	5	1	2							NA
G	91	470	C	101	2	42	6	5	1	2							NA
G	90	440	C	101	1	10	14	5	1	2							NA
G	92	710	C	102	1	113.4	13	5	1	2							NA
G	95	310	C	103	30	109.1	2	5	1	2							NA
G	93	710	C	103	10	168	25	5	1	2							NA
G	94	350	C	103	20	150	16	5	0.5								NA
G	96	350	C	104	1	0.6	18	5	1	2							NA
G	97	320	C	106	1	4	20	5	0.5								NA
G	99	320	C	107	20	27	16	5	1	2							NA
G	98	310	C	107	10	25	23	5	1	2							NA
G	100	320	C	108	1	50	5	5	1	2							NA
G	101	340	C	109	1	3.8	0	5	1	2							NA
G	102	810	C	113	10	30	9	5	0.7	2							NA
G	103	110	C	294	2	1.5	10	5	1	2							NA
																	NA
E	13	750	C	13	10	29	17	5	1	2							NA
E	14	750	C	14	10	14.7	18	5	0	2							NA
E	15	750	C	17	20	31.1	26	5	0	2							NA
E	16	920	C	29	20	12	2	5	0	2							NA

PAVED GRAVEL EARTH	No.	MOPW Road Code RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W m	S-Wid. m	Lanes	Surface Type Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
E	17	920 C	30	20	36	14	5	0	2							NA
E	18	930 C	31	20	16	11	5	0	2							NA
E	19	930 C	33	10	14.5	17	5		2							NA
E	20	910 C	41	20	5	24	5		2							NA
E	21	920 C	43	1	10.5	10	5	1	2							NA
E	22	930 C	44	10	19.3	17	5	1	2							NA
E	23	850 C	46	10	115	NA	5	1	2							NA
E	24	860 C	46	20	45	7	5	0	2							NA
E	25	850 C	47	1	148.8	NA	5	1	2							NA
E	28	820 C	48	20	21	64	5	1	2							NA
E	26	760 C	48	11	0.5	31	5	0	2							NA
E	27	760 C	48	12	16	24	5	1	2							NA
E	30	730 C	51	40	15.5	11	5	1	2							NA
E	29	810 C	51	30	39	3	5	1	2							NA
E	31	820 C	52	1	85.7	21	5	1	2							NA
E	32	240 C	69	20	20	20	5	1	2							NA
E	34	450 C	77	50	209.8	6	5	0	2							NA
E	33	840 C	77	40	50.7	22	5	0	2							NA
E	35	450 C	80	10	64	NA	5	0	2							NA
E	36	530 C	80	20	194	NA	5	0	2							NA
E	37	510 C	81	1	157.5	1	5	1	2							NA
E	38	450 C	82	0	218.3	NA	5		2							NA
E	40	410 C	93	20	8.3	29	5	1	2							NA
E	39	430 C	93	10	39.3	21	5	1	2							NA

PAVED GRAVEL EARTH	No.	MOPW Road Code RANK	NO.	SEC.	Length km	Geometry Rise+Fall m/km	C/W m	S-Wid. m	Lanes	Surface Type Type	N/L mm	O/L mm	Base/Subgrade Type	B/L mm	CBR %	Surface Roughness IRI
E	41	320 C	106	1	90.7	20	5	1	2							NA
E	43	320 C	107	20	15	16	5	1	2							NA
E	42	310 C	107	10	24	23	5	1	2							NA
E	44	330 C	112	20	93.4	1	5	1	2							NA
E	45	850 C	113	20	134	16	5	1	2							NA
E	46	310 C	115	1	39.2	17	5	1	2							NA
E	48	530 C	116	20	154	NA	5	1	2							NA
E	47	510 C	116	10	19	NA	5	1	2							NA
E	49	110 C	304	1	1.5	3	5	NA	2							NA

II. ENGINEERING ASSESSMENT ON GEOMETRY

DESCRIPTION

1. Engineering assessment on geometry is based on:

   (1) existing geometric conditions of every road link out of the road inventory survey,

   (2) existing traffic out of the Traffic Survey as explained in Chapter 4.2 of Volume I,

   (3) future traffic out of the Traffic Demand Forecast as explained in Chapter 5 of Volume I,

   (4) geometric improvement criteria as explained below.

2. Geometric Improvement Criteria

Each cross section type to be adopted for several traffic volume (ADT) is derived from Road Design Manual, Part I : Geometric Design of Rural Road of MOPWH as shown in Fig. A.2-1~3 and Table A.2-1 below.

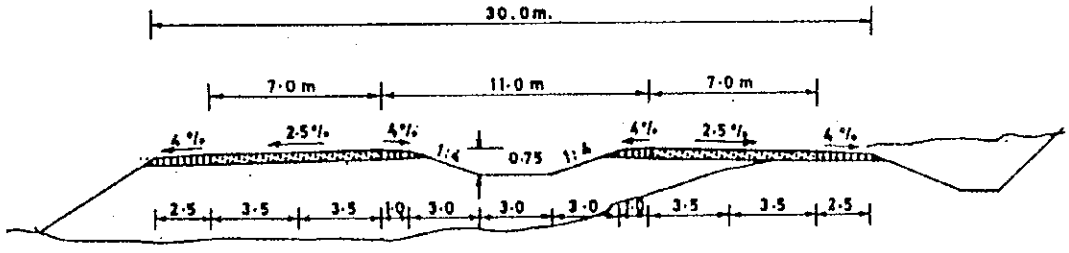

Figure A.2-1 Cross Section Type I-Dual Carriage Way

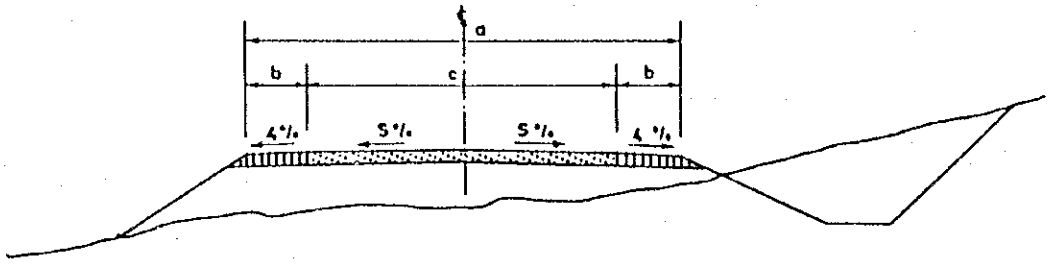

Figure A.2-2 Cross Section Type II-VIII-Single Carriage Way

Table A.2-1 Cross Section Type

Cross-Section			Dimensions in Meters			Traffic Volume
Type	Lanes	Surfacing	a	b	c	PCU/day
I	4	bitumen	30.00	2.50/1.50	14.00	8000 (SUP. HWY) 15000 (Others)
II	2	bitumen	10.00	1.50	7.00	2000 ≤ T (SUP. HWY)
III	2	bitumen	8.50	1.00	6.50	2000 ≤ T (Others)
IV	2	bitumen	7.00	0.50	6.00	500 ≤ T ≤ 2000
VII	2	gravel	8.00	-	-	100 ≤ T ≤ 500
VIII	1	earth/gravel	6.00	-	-	T < 150

SOURCE: JICA Study Team.

The improvement diagram is shown below.

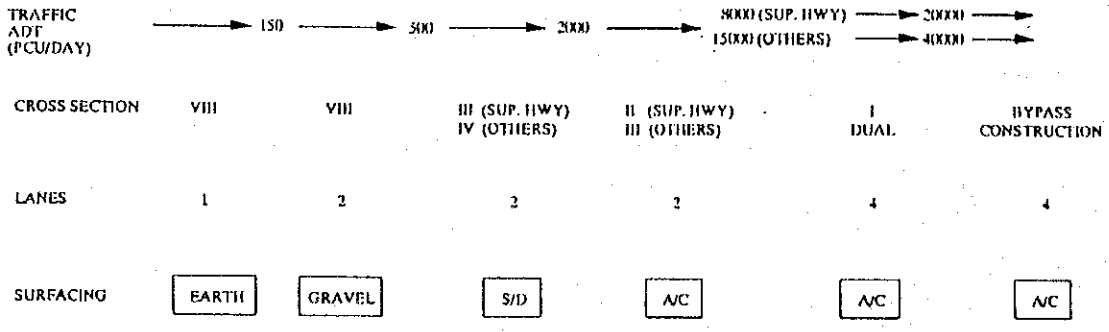

Figure A.2-3 Geometric Improvement Diagram

3. Abbreviation

1)	C/W	:	carriageway width
2)	S/W	:	shoulder width
3)	OK	:	satisfactory to cross section to be adopted
4)	Year	:	the year when the traffic reaches to the range of cross sectional improvement
5)	Type	:	type of improvement on geometry
6)	Upg. SHW	:	upgrading to Super Highway
7)	Minor	:	geometric improvement to be implemented in the following rehabilitation or reconstruction chance.

ENGINEERING ASSESSMENT ON GEOMETRY

(1) CLASS A , PAVED ROADS

No.	S.L. No.	PAVED GRAVEL EARTH	MOPW Road Code District	RANK	NO.	SEC.	Existing Goemetry Length km	C/W Width (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Type	Section to be Adopted C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	1	P	660	A	1	11	52.0	6.5	2.0	2	1,734	2,612	2.18%	III	6.5	OK	1.0	OK	--	--	--	--	
2	2	P	660	A	1	11	4.0	6.5	2.0	2	1,732	2,609	2.18%	III	6.5	OK	1.0	OK	--	--	--	--	
3	2	P	610	A	1	20	16.5	6.2	1.5	2	1,732	2,609	2.18%	III	6.5	OK	1.0	OK	--	--	--	--	
4	3	P	660	A	1	11	2.0	6.5	2.0	2	1,732	2,609	2.18%	III	6.5	OK	1.0	OK	--	--	--	--	
5	4	P	660	A	1	11	11.0	6.5	2.0	2	1,732	2,609	2.18%	III	6.5	OK	1.0	OK	--	--	--	--	
6	5	P	610	A	1	20	14.5	6.2	1.5	2	1,732	2,609	2.18%	III	6.5	OK	1.0	OK	--	--	--	--	
7	5	P	640	A	1	12	4.8	6.2	1.5	2	1,732	2,609	2.18%	III	6.5	OK	1.0	OK	--	--	--	--	
8	6	P	640	A	1	12	32.5	6.2	1.5	2	903	2,322	5.10%	III	6.5	OK	1.0	OK	--	--	--	--	
9	7	P	640	A	1	12	4.8	6.2	1.5	2	974	3,676	7.24%	III	6.5	OK	1.0	OK	--	--	--	--	
10	8	P	620	A	1	31	20.0	6.2	1.5	2	935	3,520	7.23%	III	6.5	NO	1.0	OK	0.3	--	--	Upg. SHW	S.H.W.
11	9	P	620	A	1	31	20.0	6.2	1.5	2	4,636	9,834	4.04%	I	14.0	NO	2.5	NO	7.8	1.0	2008	Dualize	S.H.W.
12	10	P	620	A	1	31	17.5	6.2	1.5	2	1,548	4,546	5.83%	II	7.0	NO	1.5	OK	0.8	--	2011	Upg. SHW	S.H.W.
13	11	P	620	A	1	31	5.0	14.0	2.5	4	4,497	12,540	5.55%	I	14.0	OK	2.5	OK	--	--	--	--	S.H.W.
14	12	P	620	A	1	32	5.6	6.5	1.5	2	4,569	9,441	3.89%	II	7.0	NO	1.5	OK	0.5	--	1991	Minor	
15	13	P	930	A	1	40	2.0	5.8	1.0	2	565	1,716	6.02%	IV	6.0	OK	0.5	OK	--	--	--	--	
16	14	P	940	A	1	41	6.0	5.9	1.2	2	3,849	10,155	5.24%	II	7.0	NO	1.5	NO	1.1	0.3	1995	Minor	
17	14	P	930	A	1	40	15.0	5.8	1.0	2	3,849	10,155	5.24%	II	7.0	NO	1.5	NO	1.2	0.5	1995	Minor	
18	15	P	930	A	1	40	44.4	5.8	1.0	2	562	1,708	6.02%	IV	6.0	OK	0.5	OK	--	--	--	--	
19	16	P	940	A	1	41	7.0	5.9	1.2	2	2,386	8,712	7.05%	II	7.0	NO	1.5	NO	1.1	0.3	2002	Minor	
20	17	P	940	A	1	41	7.0	5.9	1.2	2	3,562	10,584	5.90%	II	7.0	NO	1.5	NO	1.1	0.3	1996	Minor	
21	18	P	910	A	1	50	10.0	5.8	1.0	2	414	1,334	6.35%	IV	6.0	OK	0.5	OK	--	--	--	--	
22	19	P	910	A	1	50	20.3	5.8	1.0	2	414	1,334	6.35%	IV	6.0	OK	0.5	OK	--	--	--	--	
23	20	P	760	A	1	61	25.0	5.9	1.0	2	414	1,461	6.86%	IV	6.0	OK	0.5	OK	--	--	--	--	
24	21	P	760	A	1	61	30.8	5.9	1.0	2	670	1,266	3.41%	IV	6.0	OK	0.5	OK	--	--	--	--	
25	21	P	860	A	1	70	14.8	6.0	0.5	2	670	1,266	3.41%	IV	6.0	OK	0.5	OK	--	--	--	--	
26	22	P	760	A	1	61	6.0	6.0	1.0	2	414	1,461	6.86%	IV	6.0	OK	0.5	OK	--	--	--	--	
27	23	P	860	A	1	70	41.5	6.0	0.5	2	508	391	-1.37%	VII	8.0	NO	--	OK	2.0	--	2083	Minor	
28	24	P	860	A	1	70	46.0	6.0	0.5	2	312	825	5.25%	IV	6.0	OK	0.5	OK	--	--	--	--	
29	24	P	850	A	1	80	80.0	6.0	0.5	2	312	825	5.25%	IV	6.0	OK	0.5	OK	--	--	--	--	
30	25	P	850	A	1	80	88.0	6.0	0.5	2	557	823	2.08%	IV	6.0	OK	0.5	OK	--	--	--	--	
31	26	P	850	A	1	80	66.5	6.0	0.5	2	71	194	5.43%	VII	8.0	NO	--	OK	2.0	--	2008	Minor	
32	27	P	850	A	1	80	146.0	6.0	0.5	2	71	194	5.43%	VII	8.0	NO	--	OK	2.0	--	2008	Minor	
33	28	P	110	A	2	1	7.7	14.0	2.5	4	12,435	33,132	5.29%	I	14.0	OK	2.5	OK	--	--	--	--	
34	28	P	210	A	2	11	9.1	14.0	2.5	4	12,435	33,132	5.29%	I	14.0	OK	2.5	OK	--	--	--	--	
35	29	P	110	A	2	1	7.7	14.0	2.5	4	12,232	35,790	5.81%	I	14.0	OK	2.5	OK	--	--	--	--	

No.	S.L. No.	PAVED GRAVEL EARTH	MOPW District	Road Code RANK	NO.	SEC.	Existing Length km	Goemetry C/W Width (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
36	30	P	230	A	2	11	1.0	14.0	2.5	4	8,766	35,971	7.71%	I	14.0	OK	2.5	OK	--	--	--	--	
37	31	P	210	A	2	11	18.0	14.0	2.5	4	15,458	41,519	5.34%	I	14.0	OK	2.5	OK	--	--	--	--	
38	32	P	210	A	2	14	10.0	14.0	2.5	4	8,766	35,694	7.67%	I	14.0	OK	2.5	OK	--	--	--	--	
39	33	P	230	A	2	20	13.5	7.1	1.8	2	7,548	19,042	4.99%	I	14.0	NO	2.5	NO	6.9	0.7	1996	--	
40	34	P	230	A	2	30	10.0	7.1	1.8	2	1,596	7,795	8.71%	I	14.0	NO	2.5	NO	6.9	0.7	2013	--	
41	34	P	220	A	2	20	26.0	7.1	1.8	2	1,596	7,795	8.71%	I	14.0	NO	2.5	NO	6.9	0.7	2013	--	
42	35	P	220	A	2	30	10.0	7.1	1.8	2	914	5,957	10.37%	II	7.0	OK	1.5	OK	--	--	--	--	
43	36	P	220	A	2	30	17.7	7.1	1.8	2	751	1,666	4.28%	IV	6.0	OK	0.5	OK	--	--	--	--	
44	37	P	250	A	2	40	48.6	6.7	1.5	2	837	2,837	6.64%	III	6.5	OK	1.0	OK	--	--	--	--	
45	37	P	730	A	2	50	3.8	7.0	5.0	2	837	2,837	6.64%	III	6.5	OK	1.0	OK	--	--	--	--	
46	38	P	250	A	2	40	12.6	6.7	1.5	2	626	523	-0.94%	IV	6.0	OK	0.5	OK	--	--	--	--	
47	39	P	250	A	2	40	13.0	6.7	1.5	2	837	2,045	4.81%	III	6.5	OK	1.0	OK	--	--	--	--	
48	40	P	460	A	2	60	48.0	6.4	2.1	2	1,652	5,491	6.53%	II	7.0	OK	1.5	OK	--	--	--	--	
49	41	P	460	A	2	60	25.0	6.4	2.1	2	487	1,792	7.10%	IV	6.0	OK	0.5	OK	--	--	--	--	
50	42	P	420	A	2	70	9.0	5.9	1.4	2	142	428	5.98%	VII	8.0	OK	--	OK	--	--	--	--	
51	44	P	450	A	2	90	9.0	5.0	1.0	2	14	39	5.54%	VIII	6.0	OK	--	OK	--	--	--	--	
52	46	P	210	A	3	11	13.1	6.8	1.3	2	1,632	2,919	3.11%	III	6.5	OK	1.0	OK	--	--	--	--	
53	46	P	210	A	3	12	23.7	6.8	1.3	2	1,632	2,919	3.11%	III	6.5	OK	1.0	OK	--	--	--	--	
54	46	P	440	A	3	21	13.1	6.8	1.3	2	1,632	2,919	3.11%	III	6.5	OK	1.0	OK	--	--	--	--	
55	47	P	440	A	3	21	20.0	6.8	1.3	2	1,584	3,152	3.69%	III	6.5	OK	1.0	OK	--	--	--	--	
56	47	P	440	A	3	22	6.0	6.8	1.2	2	1,584	3,152	3.69%	III	6.5	OK	1.0	OK	--	--	--	--	
57	48	P	440	A	3	22	6.0	6.8	1.2	2	1,571	813	-3.41%	IV	6.0	OK	0.5	OK	--	--	--	--	
58	48	P	430	A	3	31	10.8	6.8	1.3	2	1,571	813	-3.41%	IV	6.0	OK	0.5	OK	--	--	--	--	
59	48	P	430	A	3	32	27.9	6.8	1.3	2	1,571	813	-3.41%	IV	6.0	OK	0.5	OK	--	--	--	--	
60	49	P	360	A	3	40	100.0	6.8	1.3	2	128	812	10.21%	IV	6.0	OK	0.5	OK	--	--	--	--	
61	50	P	430	A	3	32	14.0	6.8	1.3	2	1,556	805	-3.41%	IV	6.0	OK	0.5	OK	--	--	--	--	
62	51	P	360	A	3	40	14.5	6.8	1.3	2	115	675	9.76%	IV	6.0	OK	0.5	OK	--	--	--	--	
63	54	P	510	A	3	50	3.0	6.5	1.5	2	100	290	5.76%	VII	8.0	OK	--	OK	--	--	--	--	
64	55	P	320	A	14	10	18.0	6.9	1.1	2	291	246	-0.88%	VII	8.0	OK	--	OK	--	--	--	--	
65	56	P	320	A	14	10	8.5	6.9	1.1	2	3,835	8,491	4.27%	II	7.0	NO	1.5	NO	0.1	0.4	1995	Minor	
66	56	P	340	A	14	21	7.7	8.7	1.4	2	3,835	8,491	4.27%	II	7.0	OK	1.5	NO	--	0.1	1995	Minor	
67	57	P	320	A	14	10	30.0	6.9	1.1	2	292	730	4.94%	IV	6.0	OK	0.5	OK	--	--	--	--	
68	58	P	320	A	14	10	8.0	6.9	1.1	2	293	730	4.92%	IV	6.0	OK	0.5	OK	--	--	--	--	
69	59	P	320	A	14	10	14.0	6.9	1.1	2	3,784	8,378	4.27%	II	7.0	NO	1.5	NO	0.1	0.4	1995	Minor	
70	60	P	320	A	14	10	19.0	6.9	1.1	2	3,791	8,394	4.27%	II	7.0	NO	1.5	NO	0.1	0.4	1995	Minor	
71	61	P	350	A	23	1	25.2	6.6	1.3	2	150	420	5.57%	VII	8.0	OK	--	OK	--	--	--	--	
72	62	P	710	A	104	1	131.5	6.4	1.2	2	415	1,642	7.51%	IV	6.0	OK	0.5	OK	--	--	--	--	
73	63	P	440	A	104	10	15.0	14	2.5	4	11,678	22,124	3.42%	I	14.0	OK	2.5	OK	--	--	--	Upg. SHW	S.H.W.
74	64	P	110	A	104	21	22.5	14.0	2.5	4	10,279	18,858	3.25%	I	14.0	OK	2.5	OK	--	--	--	Upg. SHW	S.H.W.
75	65	P	110	A	104	21	7.5	14.0	2.5	4	10,279	18,858	3.25%	I	14.0	OK	2.5	OK	--	--	--	Upg. SHW	S.H.W.

No.	S.L. No.	PAVED GRAVEL EARTH	MOPW District	Road Code RANK	NO.	SEC.	Existing Length km	Goemetry C/W Width (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
76	65	P	210	A	104	31	4.8	7.7	1.5	2	10,279	18,858	3.25%	I	14.0	NO	2.5	NO	6.3	1.0	1995	Dualize	S.H.W.
77	66	P	110	A	104	22	17.0	14.0	2.5	4	10,991	21,422	3.57%	I	14.0	OK	2.5	OK	—	—	—	Upg. SHW	S.H.W.
78	67	P	110	A	104	22	8.1	14.0	2.5	4	11,524	21,280	3.28%	I	14.0	OK	2.5	OK	—	—	—	Upg. SHW	S.H.W.
79	68	P	210	A	104	31	10.0	7.7	1.5	2	10,403	19,172	3.27%	I	14.0	NO	2.5	NO	6.3	1.0	1995	Dualize	S.H.W.
80	69	P	210	A	104	31	14.0	7.7	1.5	2	5,695	9,652	2.82%	I	14.0	NO	2.5	NO	6.3	1.0	2006	Dualize	S.H.W.
81	70	P	210	A	104	31	22.0	7.7	1.5	2	5,736	10,913	3.44%	I	14.0	NO	2.5	NO	6.3	1.0	2004	Dualize	S.H.W.
82	71	P	240	A	104	32	4.3	9.2	1.4	2	6,786	8,500	1.19%	I	14.0	NO	2.5	NO	4.8	1.1	2008	Dualize	S.H.W.
83	71	P	740	A	104	41	26.0	7.5	1.4	2	6,786	8,500	1.19%	I	14.0	NO	2.5	NO	6.5	1.1	2008	Dualize	S.H.W.
84	72	P	740	A	104	41	32.0	7.5	1.4	2	5,384	11,473	4.06%	I	14.0	NO	2.5	NO	6.5	1.1	2004	Dualize	S.H.W.
85	73	P	740	A	104	41	5.0	7.5	1.4	2	6,173	14,491	4.59%	I	14.0	NO	2.5	NO	6.5	1.1	2000	Dualize	S.H.W.
86	74	P	740	A	104	41	45.3	7.5	1.4	2	9,628	18,377	3.46%	I	14.0	NO	2.5	NO	6.5	1.1	1995	Dualize	S.H.W.
87	74	P	740	A	104	42	7.4	7.2	2.6	2	9,628	18,377	3.46%	I	14.0	NO	2.5	OK	6.8	—	1989	Dualize	S.H.W.
88	75	P	740	A	104	41	13.5	7.5	1.4	2	3,882	6,321	2.60%	II	7.0	OK	1.5	NO	—	0.1	1995	Upg. SHW	S.H.W.
89	76	P	740	A	104	41	27.5	7.5	1.4	2	6,150	13,431	4.20%	I	14.0	NO	2.5	NO	6.5	1.1	2000	Dualize	S.H.W.
90	77	P	740	A	104	41	7.0	7.5	1.4	2	5,383	11,650	4.15%	I	14.0	NO	2.5	NO	6.5	1.1	2004	Dualize	S.H.W.
91	78	P	740	A	104	43	5.2	7.2	2.7	2	9,884	23,184	4.59%	I	14.0	NO	2.5	OK	6.8	—	1989	Dualize	S.H.W.
92	79	P	770	A	104	51	43.0	6.8	1.9	2	3,275	6,550	3.72%	II	7.0	NO	1.5	OK	0.2	—	1999	Upg. SHW	S.H.W.
93	80	P	770	A	104	51	24.4	6.8	1.9	2	3,940	5,800	2.06%	II	7.0	NO	1.5	OK	0.2	—	1995	Upg. SHW	S.H.W.
94	80	P	770	A	104	52	7.1	6.8	2.3	2	1,659	4,047	4.81%	II	7.0	NO	1.5	OK	0.2	—	2013	Upg. SHW	S.H.W.
95	81	P	770	A	104	51	16.0	6.8	1.9	2	3,024	3,450	0.70%	III	6.5	OK	1.0	OK	—	—	2013	Upg. SHW	S.H.W.
96	82	P	770	A	104	51	16.8	6.8	1.9	2	1,659	4,047	4.81%	II	7.0	NO	1.5	OK	0.2	—	2013	Upg. SHW	S.H.W.
97	83	P	770	A	104	51	37.6	6.8	1.9	2	3,648	6,209	2.84%	II	7.0	NO	1.5	OK	0.2	—	1997	Upg. SHW	S.H.W.
98	84	P	930	A	104	61	34.1	7.0	1.4	2	1,644	4,340	5.24%	II	7.0	OK	1.5	NO	—	0.1	2011	Upg. SHW	S.H.W.
99	85	P	910	A	104	71	30.0	7.0	2.0	2	744	1,276	2.88%	III	6.5	OK	1.0	OK	—	—	2013	Upg. SHW	S.H.W.
100	86	P	910	A	104	71	20.8	7.0	2.0	2	855	1,714	3.73%	III	6.5	OK	1.0	OK	—	—	2013	Upg. SHW	S.H.W.
101	87	P	910	A	104	71	1.0	7.0	2.0	2	2,109	6,056	5.71%	II	7.0	OK	1.5	OK	—	—	2013	Upg. SHW	S.H.W.
102	88	P	920	A	104	81	14.1	7.0	2.0	2	847	1,697	3.73%	III	6.5	OK	1.0	OK	—	—	2013	Upg. SHW	S.H.W.
103	89	P	340	A	109	11	6.2	14.0	2.5	4	3,821	8,808	4.49%	I	14.0	OK	2.5	OK	—	—	2013	Upg. SHW	S.H.W.
104	89	P	340	A	109	11	17.8	7.1	1.4	2	3,821	8,808	4.49%	I	14.0	NO	2.5	NO	6.9	1.1	2011	Dualize	S.H.W.
105	90	P	310	A	109	21	23.1	7.1	1.4	2	3,919	7,445	3.44%	II	7.0	OK	1.5	NO	—	0.1	1995	Upg. SHW	S.H.W.
106	90	P	320	A	109	31	54.2	6.8	1.5	2	3,919	7,445	3.44%	II	7.0	NO	1.5	OK	0.2	—	1995	Upg. SHW	S.H.W.
107	90	P	350	A	109	41	49.0	6.2	1.6	2	3,919	7,445	3.44%	II	7.0	NO	1.5	OK	0.8	—	1995	Upg. SHW	S.H.W.
108	91	P	310	A	109	21	25.0	7.1	1.4	2	3,837	7,433	3.54%	II	7.0	OK	1.5	NO	—	0.1	1995	Upg. SHW	S.H.W.
108	92	P	350	A	109	41	36.0	6.2	1.6	2	3,425	6,036	3.03%	II	7.0	NO	1.5	OK	0.8	—	1999	Upg. SHW	S.H.W.
109	93	P	350	A	109	41	14.0	6.2	1.6	2	3,638	6,307	2.94%	II	7.0	NO	1.5	OK	0.8	—	1997	Upg. SHW	S.H.W.
110	94	P	350	A	109	41	6.0	6.2	1.6	2	2,915	4,167	1.90%	II	7.0	NO	1.5	OK	0.8	—	2011	Upg. SHW	S.H.W.
111	95	P	440	A	109	51	21.5	7.3	2.0	2	4,139	6,265	2.21%	II	7.0	OK	1.5	OK	—	—	2013	Upg. SHW	S.H.W.
113	95	P	470	A	109	52	64.4	6.5	1.2	2	4,139	6,265	2.21%	II	7.0	NO	1.5	NO	0.5	0.3	1992	Upg. SHW	S.H.W.
112	96	P	440	A	109	51	26.0	7.3	2.0	2	11,066	20,116	3.20%	I	14.0	NO	2.5	NO	6.7	0.5	1984	Dualize	S.H.W.
114	97	P	470	A	109	52	88.0	6.5	1.2	2	3,617	6,305	2.97%	II	7.0	NO	1.5	NO	0.5	0.3	1997	Upg. SHW	S.H.W.
115	98	P	470	A	109	52	68.0	6.5	1.2	2	4,151	6,416	2.32%	II	7.0	NO	1.5	NO	0.5	0.3	1992	Upg. SHW	S.H.W.

CLASS A , GRAVEL ROADS

No.	S.L. No.	PAVED GRAVEL EARTH	MOPW Road Code District	RANK	NO.	SEC.	Existing Goemetry Length km	C/W Width (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Type	Section to be Adopted C/W (m)	C/W Status	S/W (m)	S/W Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	42	G	420	A	2	70	36.0	5.0	1.0	2	142	428	5.98%	VII	8.0	NO	--	OK	3.0	--	1995	Minor	
2	42	G	420	A	2	80	18.0	5.0	1.0	2	142	428	5.98%	VII	8.0	NO	--	OK	3.0	--	1995	Minor	
3	43	G	420	A	2	80	74.0	5.0	1.0	2	142	429	5.99%	VII	8.0	NO	--	OK	3.0	--	1995	Minor	
4	43	G	450	A	2	90	124.5	5.0	1.0	2	142	429	5.99%	VII	8.0	NO	--	OK	3.0	--	1995	Minor	
5	45	G	450	A	2	90	246.0	5.0	1.0	2	14	39	5.54%	VIII	6.0	OK	--	OK	--	--	--	--	
6	61	G	350	A	23	1	88.8	5.0	1.0	2	150	420	5.57%	VII	8.0	NO	--	OK	3.0	--	1995	Minor	

CLASS A , EARTH ROADS

No.	S.L. No.	PAVED GRAVEL EARTH	MOPW Road Code District	RANK	NO.	SEC.	Existing Goemetry Length km	C/W Width (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Type	Section to be Adopted C/W (m)	C/W Status	S/W (m)	S/W Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	27	E	850	A	1	80	30.0	5.0	0.0	2	71	194	5.43%	VII	8.0	NO	--	OK	3.0	--	2008	Minor	
2	49	E	430	A	3	32	116.9	5.0	0.0	2	128	812	10.21%	IV	6.0	NO	0.5	NO	1.0	0.5	2008	Minor	
3	52	E	360	A	3	50	96.0	5.0	0.0	2	100	290	5.76%	VII	8.0	NO	--	OK	3.0	--	2001	Minor	
4	53	E	360	A	3	50	100.0	5.0	0.0	2	100	290	5.76%	VII	8.0	NO	--	OK	3.0	--	2001	Minor	
5	54	E	360	A	3	50	5.0	5.0	0.0	2	100	290	5.76%	VII	8.0	NO	--	OK	3.0	--	2001	Minor	

(2) CLASS B , PAVED ROADS

No.	S.L. No.	PAVED GRAVEL EARTH	MOPW District	Road Code RANK	NO.	SEC.	Existing Geometry Length km	C/W Width (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	1	P	120	B	1	10	45.0	6.3	1.2	2	5,570	9,916	3.08%	I	14.0	NO	2.5	NO	7.7	1.3	2006	Dualize	S.H.W
2	2	P	120	B	1	10	12.5	6.3	1.2	2	3,223	2,908	-0.54%	III	6.5	NO	1.0	OK	0.2	--	1995	Minor	Upg. SHW
3	3	P	120	B	1	10	7.0	6.3	1.2	2	5,695	16,151	5.64%	I	14.0	NO	2.5	NO	7.7	1.3	2000	Dualize	S.H.W
4	4	P	120	B	1	10	19.0	6.3	1.2	2	3,204	2,893	-0.54%	III	6.5	NO	1.0	OK	0.2	--	1995	Minor	Upg. SHW
5	5	P	120	B	1	10	6.9	6.3	1.2	2	3,107	2,373	-1.41%	III	6.5	NO	1.0	OK	0.2	--	1995	Minor	Upg. SHW
6	6	P	620	B	1	21	16.6	6.0	1.5	2	3,406	5,658	2.71%	II	7.0	NO	1.5	OK	1.0	--	2000	Minor	Upg. SHW
7	7	P	620	B	1	21	5.5	6.0	1.5	2	3,396	5,483	2.55%	II	7.0	NO	1.5	OK	1.0	--	2000	Minor	Upg. SHW
8	8	P	620	B	1	22	6.9	7.2	2.2	2	708	3,361	8.54%	III	6.5	OK	1.0	OK	--	--	--	--	Upg. SHW
9	8	P	620	B	1	23	13.1	6.0	2.7	2	708	3,361	8.54%	III	6.5	NO	1.0	OK	0.5	--	2015	Minor	Upg. SHW
10	9	P	620	B	1	23	4.3	6.0	2.7	2	683	1,521	4.30%	III	6.5	NO	1.0	OK	0.5	--	2036	Minor	Upg. SHW
11	10	P	620	B	1	23	8.8	6.0	2.7	2	2,857	5,491	3.50%	II	7.0	NO	1.5	OK	1.0	--	2004	Minor	Upg. SHW
12	11	P	940	B	1	31	3.0	5.8	2.3	2	3,984	7,193	3.16%	II	7.0	NO	1.5	OK	1.2	--	1995	Minor	Upg. SHW
13	12	P	940	B	1	31	6.5	5.8	2.3	2	998	3,601	6.99%	III	6.5	NO	1.0	OK	0.7	--	2015	Minor	Upg. SHW
14	13	P	630	B	1	41	29.0	5.8	1.1	2	1,142	3,645	6.30%	III	6.5	NO	1.0	OK	0.7	--	2015	Minor	Upg. SHW
15	13	P	940	B	1	31	3.0	5.8	2.3	2	1,142	3,645	6.30%	III	6.5	NO	1.0	OK	0.7	--	2015	Minor	Upg. SHW
16	14	P	630	B	1	41	4.0	5.8	1.1	2	1,155	3,651	6.24%	III	6.5	NO	1.0	OK	0.7	--	2015	Minor	Upg. SHW
17	15	P	630	B	1	41	2.0	5.8	1.1	2	1,149	3,631	6.24%	III	6.5	NO	1.0	OK	0.7	--	2015	Minor	Upg. SHW
18	15	P	630	B	1	41	14.5	5.8	1.1	2	1,149	3,631	6.24%	III	6.5	NO	1.0	OK	0.7	--	2015	Minor	Upg. SHW
19	15	P	920	B	1	51	2.0	6.4	1.5	2	1,149	3,631	6.24%	III	6.5	NO	1.0	OK	0.1	--	2015	Minor	Upg. SHW
20	16	P	920	B	1	51	20.0	6.4	1.5	2	1,164	3,683	6.25%	III	6.5	NO	1.0	OK	0.1	--	2014	Minor	Upg. SHW
21	17	P	920	B	1	51	5.0	6.4	1.5	2	1,270	4,173	6.46%	II	7.0	NO	1.5	OK	0.6	--	2012	Minor	Upg. SHW
22	18	P	740	B	1	61	2.9	7.0	1.1	2	5,397	12,595	4.56%	I	14.0	NO	2.5	NO	7.0	1.4	2003	Dualize	S.H.W
23	19	P	770	B	2	11	35.2	6.0	1.2	2	2,309	6,400	5.51%	II	7.0	NO	1.5	NO	1.0	0.3	2004	Minor	
24	19	P	930	B	2	21	12.0	6.0	1.0	2	2,309	6,400	5.51%	II	7.0	NO	1.5	NO	1.0	0.5	2004	Minor	
25	20	P	760	B	2	31	18.6	6.0	1.0	2	2,339	7,383	6.24%	II	7.0	NO	1.5	NO	1.0	0.5	2003	Minor	
26	21	P	210	B	3	10	20.0	6.7	2.5	2	5,839	16,215	5.52%	I		OK		OK	--	--	--	--	
27	22	P	740	B	3	20	29.4	6.0	1.9	2	1,986	7,428	7.19%	II	7.0	NO	1.5	OK	1.0	--	2004	Minor	
28	22	P	750	B	3	30	48.2	5.4	2.0	2	1,986	7,428	7.19%	II	7.0	NO	1.5	OK	1.6	--	2004	Minor	
29	23	P	750	B	3	30	16.0	5.4	2.0	2	1,176	4,762	7.64%	II	7.0	NO	1.5	OK	1.6	--	2011	Minor	
30	23	P	750	B	3	30	23.4	5.4	2.0	2	1,176	4,762	7.64%	II	7.0	NO	1.5	OK	1.6	--	2011	Minor	
31	24	P	750	B	3	30	42.5	5.4	2.0	2	1,223	5,431	8.16%	II	7.0	NO	1.5	OK	1.6	--	2009	Minor	
32	25	P	750	B	3	30	15.5	5.4	2.0	2	1,218	5,409	8.16%	II	7.0	NO	1.5	OK	1.6	--	2009	Minor	
33	26	P	720	B	3	40	35.0	6.5	1.2	2	1,158	3,628	6.19%	III	6.5	OK	1.0	OK	--	--	--	--	
34	26	P	720	B	3	40	16.0	6.5	1.2	2	1,158	3,628	6.19%	III	6.5	OK	1.0	OK	--	--	--	--	
35	27	P	720	B	3	40	5.0	6.5	1.2	2	2,132	3,600	2.80%	III	6.5	OK	1.0	OK	--	--	--	--	
36	28	P	720	B	3	40	6.0	6.5	1.2	2	1,182	4,786	7.64%	II	7.0	NO	1.5	NO	0.5	0.3	2011	Minor	
37	29	P	610	B	3	50	30.2	5.8	1.2	2	2,113	2,493	0.87%	III	6.5	NO	1.0	OK	0.7	--	1995	Minor	
38	30	P	650	B	3	60	18.0	5.8	1.0	2	2,094	2,471	0.88%	III	6.5	NO	1.0	OK	0.7	--	1995	Minor	

No.	S.L. No.	PAVED GRAVEL EARTH	MOPW District	Road Code RANK	NO.	SEC.	Existing Length km	Goemetry C/W Width (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Type	Section to be Adopted C/W (m)	C/W Status	S/W (m)	S/W Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
39	31	P	740	B	4	10	6.0	6.4	2.2	2	66	624	12.55%	IV	6.0	OK	0.5	OK	—	—	—	—	
40	31	P	810	B	4	20	88.4	6.5	1.8	2	66	624	12.55%	IV	6.0	OK	0.5	OK	—	—	—	—	
41	32	P	740	B	4	10	18.0	6.4	2.2	2	443	4,469	12.94%	II	7.0	OK	1.5	OK	—	—	—	—	
42	37	P	240	B	5	30	12.5	6.1	2.1	2	1,120	4,444	7.52%	II	7.0	OK	1.5	OK	—	—	—	—	
43	37	P	250	B	5	10	52.0	6.0	2.3	2	1,120	4,444	7.52%	II	7.0	OK	1.5	OK	—	—	—	—	
44	37	P	730	B	5	20	24.6	6.2	2.7	2	1,120	4,444	7.52%	II	7.0	OK	1.5	OK	—	—	—	—	
45	38	P	250	B	5	10	12.3	6.0	2.3	2	214	1,513	10.84%	IV	6.0	OK	0.5	OK	—	—	—	—	
46	39	P	730	B	5	22	13.7	6.5	1.7	2	630	2,490	7.50%	III	6.5	OK	1.0	OK	—	—	—	—	
47	39	P	740	B	5	40	51.3	6.7	1.9	2	630	2,490	7.50%	III	6.5	OK	1.0	OK	—	—	—	—	
48	40	P	240	B	5	30	15.3	6.1	2.1	2	1,497	5,623	7.21%	II	7.0	OK	1.5	OK	—	—	—	—	
49	41	P	220	B	6	10	12.0	6.0	1.9	2	1,320	4,644	6.84%	II	7.0	NO	1.5	OK	1.0	—	2011	Minor	
50	42	P	220	B	6	10	30.1	6.0	1.9	2	686	1,866	5.41%	IV	6.0	OK	0.5	OK	—	—	—	—	
51	43	P	410	B	6	20	20.6	7.0	1.5	2	262	4,030	15.47%	II	7.0	OK	1.5	OK	—	—	—	—	
52	44	P	410	B	6	20	15.0	7.0	1.5	2	390	4,065	13.13%	II	7.0	OK	1.5	OK	—	—	—	—	
53	44	P	460	B	6	31	8.3	7.3	1.5	2	390	4,065	13.13%	II	7.0	OK	1.5	OK	—	—	—	—	
54	45	P	460	B	6	31	55.6	7.3	1.5	2	357	3,494	12.76%	III	6.5	OK	1.0	OK	—	—	—	—	
55	46	P	460	B	6	31	25.0	7.3	1.5	2	706	4,027	9.60%	II	7.0	OK	1.5	OK	—	—	—	—	
56	47	P	470	B	7	10	3.0	6.5	1.2	2	152	695	8.33%	IV	6.0	OK	0.5	OK	—	—	—	—	
57	48	P	430	B	7	20	3.0	7.1	1.7	2	428	3,862	12.27%	III	6.5	OK	1.0	OK	—	—	—	—	
58	50	P	430	B	7	20	6.5	7.1	1.7	2	50	2,584	23.08%	III	6.5	OK	1.0	OK	—	—	—	—	
59	51	P	440	B	7	30	35.5	6.5	1.2	2	127	1,253	12.80%	IV	6.0	OK	0.5	OK	—	—	—	—	
60	51	P	410	B	7	40	45.5	6.6	1.1	2	127	1,253	12.80%	IV	6.0	OK	0.5	OK	—	—	—	—	
61	52	P	310	B	8	20	30.0	6.2	1.5	2	7,599	12,705	2.74%	I	14.0	NO	2.5	NO	7.8	1.0	1995	Dualize	
62	52	P	340	B	8	11	15.0	7.9	1.6	2	7,599	12,705	2.74%	II	7.0	OK	1.5	OK	—	—	—	—	
63	53	P	310	B	8	20	57.5	6.2	1.5	2	7,648	14,068	3.26%	II	7.0	NO	1.5	OK	0.8	—	1995	Minor	
64	54	P	310	B	8	20	16.0	6.2	1.5	2	7,675	14,117	3.26%	II	7.0	NO	1.5	OK	0.8	—	1995	Minor	
65	56	P	360	B	8	30	24.5	5.0	1.0	2	51	208	7.68%	VII	8.0	NO	—	OK	3.0	—	2009	Minor	
66	62	P	110	B	10	1	8.3	14.0	2.5	4	500	1,800	6.97%	IV	6.0	OK	0.5	OK	—	—	—	—	

CLASS B , GRAVEL ROADS

No.	S.L. No.	PAVED GRAVEL EARTH	MOPW Road Code District	RANK	NO.	SEC.	Existing Goemetry Length km	C/W Width (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Type	Section to be Adopted C/W (m)	C/W Status	S/W (m)	S/W Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	22	G	750	B	3	30	10.3	5.0	1.0	2	1,986	7,428	7.19%	II	7.0	NO	1.5	OK	2.0	--	--	Minor	
2	33	G	810	B	4	20	60.6	4.0	1.0	1	48	430	12.23%	VI	4.0	OK	0.5	OK	--	--	--	--	
3	34	G	810	B	4	20	57.4	4.0	1.0	1	33	432	14.50%	VI	4.0	OK	0.5	OK	--	--	--	--	
4	35	G	860	B	4	41	11.0	5.0	1.0	2	48	431	12.25%	VI	4.0	OK	0.5	OK	--	--	--	--	
5	36	G	860	B	4	41	32.8	5.0	1.0	2	48	434	12.29%	VI	4.0	OK	0.5	OK	--	--	--	--	
6	47	G	470	B	7	10	24.8	5.0		2	152	695	8.33%	IV	6.0	NO	0.5	OK	1.0	--	--	Minor	
7	55	G	310	B	8	20	52.1	5.0	1.0	2	190	1,245	10.40%	IV	6.0	NO	0.5	OK	1.0	--	--	Minor	
8	56	G	360	B	8	30	43.4	5.0	1.0	2	51	208	7.68%	VI	4.0	OK	0.5	OK	--	--	--	--	
9	58	G	420	B	9	21	118.0	5.0	1.0		20	98	8.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
10	59	G	510	B	9	31	37.1	5.0			20	98	8.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
11	59	G	550	B	9	41	49.0	5.0			20	98	8.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
12	60	G	520	B	9	41	217.0	5.0			14	60	7.96%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
13	60	G	520	B	9	51	272.8	5.0			14	60	7.96%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
14	61	G	530	B	9	41	69.0	5.0			20	98	8.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	

CLASS B , EARTH ROADS

No.	S.L. No.	PAVED GRAVEL EARTH	MOPW Road Code District	RANK	NO.	SEC.	Existing Goemetry Length km	C/W Width (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Type	Section to be Adopted C/W (m)	C/W Status	S/W (m)	S/W Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	34	E	820	B	4	30	6.3	5.0	1.0	2	33	432	14.50%	VI	4.0	OK	0.5	OK	--	--	--	--	
2	35	E	820	B	4	30	12.0	5.0	1.0	2	48	431	12.25%	VI	4.0	OK	0.5	OK	--	--	--	--	
3	47	E	430	B	7	20	114.8	5.0	0.0	2	152	695	8.33%	IV	6.0	NO	0.5	OK	1.0	--	--	Minor	
4	49	E	430	B	7	20	13.4	5.0	0.0	2	50	2,581	23.07%	III	6.5	NO	1.0	OK	1.5	--	--	Minor	
5	50	E	430	B	7	20	26.0	5.0	0.0	2	50	2,584	23.08%	III	6.5	NO	1.0	OK	1.5	--	--	Minor	
6	55	E	360	B	8	30	47.9	5.0	1.0	2	190	1,245	10.40%	IV	6.0	NO	0.5	OK	1.0	--	--	Minor	
7	56	E	360	B	8	30	58.0	5.0	1.0	2	51	208	7.68%	VI	4.0	OK	0.5	OK	--	--	--	--	
8	57	E	360	B	8	30	92.8	5.0	1.0	2	118	791	10.53%	IV	6.0	NO	0.5	OK	1.0	--	--	Minor	
9	58	E	460	B	9	11	66.0	5.0		2	20	98	8.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
10	59	E	420	B	9	21	9.0	5.0	1.0	2	20	98	8.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
11	59	E	510	B	9	31	15.0	5.0	1.0	2	20	98	8.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	

(3) CLASS C , PAVED ROADS (GROUPE-I)

No.	PAVED GRAVEL EARTH	S.L. No.	MOPW Road Code District	RANK	NO.	SEC.	Existing Length (km)	Goemetry C/W (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type Class	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	P	7	610	C	17	10	24.0	6.2	2.0	2	70	270	7.36%	VII	8.0	OK	--	OK	--	--	--	--	
2	P	8	610	C	17	10	18.0	6.2	2.0	2	70	270	7.36%	VII	8.0	OK	--	OK	--	--	--	--	
3	P	9	750	C	17	20	11.1	6.0	1.0	2	70	270	7.36%	VII	8.0	OK	--	OK	--	--	--	--	
4	P	12	620	C	19	10	25.3	6.3	1.1	2	620	1,031	2.71%	IV	6.0	OK	0.5	OK	--	--	--	--	
5	P	12	640	C	19	20	20.6	6.0	1.1	2	620	1,031	2.71%	IV	6.0	OK	0.5	OK	--	--	--	--	
6	P	15	640	C	20	20	19.6	6.5	1.0	2	1,200	3,200	5.30%	III	6.5	OK	1.0	OK	--	--	--	--	
7	P	15	660	C	20	30	16.5	6.5	1.0	2	1,200	3,200	5.30%	III	6.5	OK	1.0	OK	--	--	--	--	
8	P	17	720	C	21	20	4.0	7.2	1.2	2	36	3,985	28.11%	III	6.5	OK	1.0	OK	--	--	--	--	
9	P	20	720	C	23	1	15.3	6.2	1.8	2	1,031	313	-6.08%	VII	8.0	OK	--	OK	--	--	--	--	
10	P	21	720	C	23	1	12.5	6.2	1.8	2	1,041	1,467	1.82%	IV	6.0	OK	0.5	OK	--	--	--	--	
11	P	22	720	C	23	1	17.5	6.2	1.8	2	1,069	4,802	8.23%	II	7.0	NO	1.5	OK	0.8	--	2011	Minor	
12	P	23	720	C	24	1	42.3	6.7	1.3	2	24	1,153	22.60%	IV	6.0	OK	0.5	OK	--	--	--	--	
13	P	24	720	C	25	1	10.0	5.4	1.0	2	37	90	4.79%	VIII	6.0	OK	--	OK	--	--	--	--	
14	P	26	520	C	27	10	29.5	5.9	1.0	2	540	1,803	6.55%	IV	6.0	OK	0.5	OK	--	--	--	--	
15	P	26	530	C	27	20	6.0	6.2	2.0	2	540	1,803	6.55%	IV	6.0	OK	0.5	OK	--	--	--	--	
16	P	30	630	C	29	10	36.0	5.8	1.5	2	1,527	1,395	-0.47%	IV	6.0	OK	0.5	OK	--	--	--	--	
17	P	30	940	C	29	30	3.5	6.0	2.2	2	1,527	1,395	-0.47%	IV	6.0	OK	0.5	OK	--	--	--	--	
18	P	38	630	C	39	40	4.4	5.1		2	15	60	7.57%	VIII	6.0	NO	--	OK	0.9	--	--	Minor	
19	P	38	930	C	33	10	16.2	5.9	1.0	2	15	60	7.57%	VIII	6.0	OK	--	OK	--	--	--	--	
20	P	38	930	C	33	10	19.2	5.9	1.0	2	15	60	7.57%	VIII	6.0	OK	--	OK	--	--	--	--	
21	P	40	930	C	40	1	31.0	6.4	1.0	2	9	32	6.90%	VIII	6.0	OK	--	OK	--	--	--	--	
22	P	41	910	C	33	20	1.0	5.9	1.0	2	6	20	6.54%	VIII	6.0	OK	--	OK	--	--	--	--	
23	P	42	940	C	33	20	17.0	5.9	1.0	2	6	20	6.54%	VIII	6.0	OK	--	OK	--	--	--	--	
24	P	44	620	C	34	10	41.7	6.2	1.0	2	10	3,659	36.43%	III	6.5	NO	1.0	OK	0.3	--	2011	Minor	
25	P	45	620	C	34	10	10.5	6.2	1.0	2	13	3,857	34.93%	III	6.5	NO	1.0	OK	0.3	--	2011	Minor	
26	P	46	720	C	34	20	8.2	6.5	1.0	2	23	471	17.22%	VII	8.0	OK	--	OK	--	--	--	--	
27	P	46	620	C	34	10	10.5	6.2	1.0	2	23	471	17.22%	VII	8.0	OK	--	OK	--	--	--	--	
28	P	47	820	C	35	20	10.0	6.5	1.0	2	208	6,459	19.82%	II	7.0	NO	1.5	NO	0.5	0.5	2010	Minor	
29	P	47	720	C	35	10	1.6	6.5	1.0	2	208	6,459	19.82%	II	7.0	NO	1.5	NO	0.5	0.5	2010	Minor	
30	P	48	820	C	35	20	9.0	6.5	0.0	2	196	3066	15.57%	III	6.5	OK	1.0	NO	--	1.0	2010	Minor	
31	P	49	770	C	36	21	22.5	6.2	1.2	2	632	2,766	8.08%	III	6.5	OK	1.0	OK	--	--	--	--	
32	P	49	830	C	36	11	30.9	6.0	1.0	2	632	2,766	8.08%	III	6.5	NO	1.0	OK	0.5	--	2009	Minor	
33	P	50	236	C	37	10	39.9	6.3	1.4	2	33	417	14.28%	VII	8.0	OK	--	OK	--	--	--	--	

No.	PAVED GRAVEL EARTH	S.L. No.	MOPW District	Road Code RANK	NO.	SEC.	Existing Geometry Length (km)	C/W Width (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type Class	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
34	P	50	620	C	37	10	9.9	6.3	1.4	2	33	417	14.28%	VII	8.0	OK	--	OK	--	--	--	--	
35	P	51	620	C	37	10	9.9	6.3	1.4	2	10	173	16.19%	VII	8.0	OK	--	OK	--	--	--	--	
36	P	53	940	C	38	1	16.6	5.7	1.5	2	1,193	1,899	2.48%	IV	6.0	OK	0.5	OK	--	--	--	--	
37	P	54	770	C	39	11	2.2	7.1	1.1	2	150	1,048	10.77%	IV	6.0	OK	0.5	OK	--	--	--	--	
38	P	54	770	C	39	12	18.6	5.6	1.0	2	150	1,048	10.77%	IV	6.0	OK	0.5	OK	--	--	--	--	
39	P	54	830	C	39	20	27.6	5.6	1.2	2	150	1,048	10.77%	IV	6.0	OK	0.5	OK	--	--	--	--	
40	P	55	830	C	39	20	22.6	5.6	1.2	2	652	1,532	4.60%	IV	6.0	OK	0.5	OK	--	--	--	--	
41	P	55	940	C	39	30	14.1	5.5	1.3	2	652	1,532	4.60%	IV	6.0	OK	0.5	OK	--	--	--	--	
42	P	55	940	C	39	30	15.0	5.5	1.3	2	652	1,532	4.60%	IV	6.0	OK	0.5	OK	--	--	--	--	
43	P	58	910	C	42	1	8.3	5.0			6	20	6.54%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
44	P	61	760	C	45	2	18.7	5.6	1.0	2	65	180	5.51%	VIII	6.0	OK	--	OK	--	--	--	--	
45	P	61	760	C	45	1	2.5	5.6	1.0	2	65	180	5.51%	VIII	6.0	OK	--	OK	--	--	--	--	
46	P	67	770	C	51	12	9.0	5.8	1.2	2	72	1,149	15.70%	IV	6.0	OK	0.5	OK	--	--	--	--	
47	P	67	770	C	51	20	11.0	6.5	1.0	2	72	1,149	15.70%	IV	6.0	OK	0.5	OK	--	--	--	--	
48	P	68	770	C	51	12	18.1	5.8	1.2	2	60	6,035	27.47%	III	6.5	NO	1.0	OK	0.7	--	2008	Minor	
49	P	69	820	C	51	20	10.0	6.5	1.0	2	37	1,090	19.49%	IV	6.0	OK	0.5	OK	--	--	--	--	
50	P	69	820	C	51	20	19.5	6.5	1.0	2	37	1,090	19.49%	IV	6.0	OK	0.5	OK	--	--	--	--	
51	P	70	810	C	51	30	66.0	6.7	1.6	2	37	1,098	19.53%	IV	6.0	OK	0.5	OK	--	--	--	--	
52	P	70	820	C	51	20	23.5	6.5	1.0	2	37	1,098	19.53%	IV	6.0	OK	0.5	OK	--	--	--	--	
53	P	71	730	C	51	40	49.6	5.0			19	906	22.56%	IV	6.0	NO	0.5	NO	1.0	0.5	2010	Minor	
54	P	74	820	C	53	20	16.5	6.0	1.1	2	160	2,950	16.58%	III	6.5	NO	1.0	OK	0.5	--	2010	Minor	
55	P	76	770	C	54	12	32.8	6.0	1.0	2	160	2,950	16.58%	III	6.5	NO	1.0	OK	0.5	--	2010	Minor	
56	P	77	740	C	55	10	10.2	6.2	2.0	2	379	3,864	13.00%	III	6.5	OK	1.0	OK	--	--	--	--	
57	P	77	810	C	55	20	29.9	6.6	1.7	2	379	3,869	13.01%	III	6.5	OK	1.0	OK	--	--	--	--	
58	P	78	810	C	55	20	29.8	6.6	1.7	2	252	3,121	14.16%	III	6.5	OK	1.0	OK	--	--	--	--	
59	P	78	820	C	55	30	11.5	6.5	1.6	2	252	3,121	14.16%	III	6.5	OK	1.0	OK	--	--	--	--	
60	P	79	740	C	56	1	12.9	6.3	2.4	2	85	4,320	22.97%	III	6.5	OK	1.0	OK	--	--	--	--	
61	P	80	740	C	56	1	44.5	6.3	2.4	2	4	4,199	44.21%	III	6.5	OK	1.0	OK	--	--	--	--	
62	P	81	740	C	57	20	38.8	6.1	1.9	2	90	311	6.74%	VIII	6.0	OK	--	OK	--	--	--	--	
63	P	81	750	C	57	11	2.0	6.2	2.5	2	90	311	6.74%	VIII	6.0	OK	--	OK	--	--	--	--	
64	P	82	110	C	58	10	7.0	6.5	1.4	2	1,001	2,154	4.12%	III	6.5	OK	1.0	OK	--	--	--	--	
65	P	83	110	C	58	10	6.0	6.5	1.4	2	40	110	5.47%	VIII	6.0	OK	--	OK	--	--	--	--	
66	P	83	710	C	58	20	97.6	5.3	1.3	2	40	110	5.47%	VIII	6.0	OK	--	OK	--	--	--	--	
67	P	84	110	C	59	1	10.0	8.0	2.4	2	533	411	-1.36%	VIII	6.0	OK	--	OK	--	--	--	--	
68	P	85	110	C	59	1	2.3	8.0	2.4	2	120	320	5.30%	VIII	6.0	OK	--	OK	--	--	--	--	
69	P	86	110	C	59	1	2.3	8.0	2.4	2	783	3,134	7.57%	III	6.5	OK	1.0	OK	--	--	--	--	

No.	PAVED GRAVEL EARTH	S.L. No.	MOPW District	Road Code RANK	NO.	SEC.	Existing Length (km)	Goemetry C/W Wid (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type Class	C/W (m)	Status	S/W (m)	Status	Cross Section C/W (m)	Cross Section S/W (m)	Improvement Year	Improvement Type	Remarks
70	P	87	110	C	60	10	8.0	5.8	3.4	2	675	1,458	4.14%	IV	6.0	OK	0.5	OK	--	--	--	--	
71	P	88	110	C	60	10	5.5	5.8	3.4	2	1,798	3,995	4.29%	III	6.5	OK	1.0	OK	--	--	--	--	
72	P	88	710	C	60	20	4.9	7.1	2.4	2	1,798	3,995	4.29%	III	6.5	OK	1.0	OK	--	--	--	--	
73	P	89	110	C	61	1	7.0	8.0	2.4	2	1,600	3,500	4.21%	III	6.5	OK	1.0	OK	--	--	--	--	
74	P	90	110	C	61	1	6.5	8.0	2.4	2	665	1,436	4.13%	IV	6.0	OK	0.5	OK	--	--	--	--	
75	P	91	110	C	62	20	7.0	6.8	2.1	2	1,110	6,338	9.60%	III	6.5	OK	1.0	OK	--	--	--	--	
76	P	91	110	C	62	10	26.0	6.8	3.0	2	1,110	6,338	9.60%	III	6.5	OK	1.0	OK	--	--	--	--	
77	P	92	110	C	62	20	14.5	6.8	2.1	2	1,172	6,688	9.60%	III	6.5	OK	1.0	OK	--	--	--	--	
78	P	93	110	C	63	10	7.7	5.8	1.2	2	125	354	5.63%	VIII	6.0	OK	--	OK	--	--	--	--	
79	P	93	210	C	63	20	2.6	6.1	1.7	2	125	354	5.63%	VIII	6.0	OK	--	OK	--	--	--	--	
80	P	94	210	C	63	10	7.8	5.8	1.2	2	1,043	2,243	4.11%	III	6.5	NO	1.0	OK	0.7	--	2010	Minor	
81	P	95	210	C	63	20	16.0	6.1	1.7	2	3,258	9,020	5.51%	III	6.5	OK	1.0	OK	--	--	--	--	
79	P	96	210	C	63	20	18.0	6.1	1.7	2	50	193	7.37%	VIII	6.0	OK	--	OK	--	--	--	--	
80	P	97	210	C	63	20	17.0	6.1	1.7	2	15	36	4.72%	VIII	6.0	OK	--	OK	--	--	--	--	
81	P	98	110	C	64	10	5.5	5.6	2.6	2	4,869	14,319	5.84%	III	6.5	OK	1.0	OK	--	--	--	--	
82	P	99	210	C	64	20	6.2	5.5	1.7	2	4,869	14,319	5.84%	III	6.5	OK	1.0	OK	--	--	--	--	
83	P	99	210	C	64	20	18.1	5.5	1.7	2	1,588	4,086	5.10%	III	6.5	OK	1.0	OK	--	--	--	--	

CLASS C , PAVED ROADS (GROUPE-II)

No.	PAVED GRAVEL EARTH	S.L. No.	MOPW Road Code District	RANK	NO.	SEC.	Existing Length (km)	Goemetry C/W (m)	Goemetry S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type Class	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	P	1	210	C	64	20	15.5	5.5	1.7	2	1,568	5,214	6.53%	III	6.5	OK	1.0	OK	--	--	--	--	
2	P	2	210	C	65	1	32.5	5.9	1.8	2	38	1,264	20.26%	IV	6.0	OK	0.5	OK	--	--	--	--	
3	P	3	210	C	65	1	13.0	5.9	1.8	2	5	4	-1.17%	VIII	6.0	OK	--	OK	--	--	--	--	
4	P	4	210	C	66	10	51.0	5.8	1.7	2	1,009	2,226	4.25%	III	6.5	OK	1.0	OK	--	--	--	--	
5	P	4	240	C	66	20	4.5	5.4	2.3	2	1,009	2,226	4.25%	III	6.5	OK	1.0	OK	--	--	--	--	
6	P	5	210	C	66	10	14.0	5.8	1.7	2	2,565	6,233	4.78%	III	6.5	OK	1.0	OK	--	--	--	--	
7	P	6	230	C	67	10	31.1	6.0	2.0	2	100	424	7.90%	VIII	6.0	OK	--	OK	--	--	--	--	
8	P	7	240	C	67	20	5.1	6.0	2.0	2	1,300	4,995	7.34%	III	6.5	OK	1.0	OK	--	--	--	--	
9	P	8	740	C	67	30	6.9	6.0	1.8	2	1,300	4,995	7.34%	III	6.5	OK	1.0	OK	--	--	--	--	
10	P	9	240	C	68	1	18.1	6.5	1.7	2	1,300	4,995	7.34%	III	6.5	OK	1.0	OK	--	--	--	--	
11	P	10	740	C	69	10	17.6	5.3	1.7	2	157	520	6.51%	IV	6.0	OK	0.5	OK	--	--	--	--	
12	P	11	240	C	69	20	2.0	5.5	2.2	2	20	59	5.86%	VIII	6.0	OK	--	OK	--	--	--	--	
13	P	14	230	C	70	10	33.0	6.2	1.8	2	1,214	7,202	9.82%	III	6.5	OK	1.0	OK	--	--	--	--	
14	P	14	250	C	70	20	23.0	6.1	1.2	2	1,214	7,202	9.82%	III	6.5	OK	1.0	OK	--	--	--	--	
15	P	15	230	C	71	1	29.0	6.3	1.7	2	5,927	11,186	3.40%	III	6.5	OK	1.0	OK	--	--	--	--	
16	P	16	230	C	72	1	25.1	5.6	1.4	2	2,400	9,424	7.46%	III	6.5	NO	1.0	OK	0.9	--	1991	Minor	
17	P	17	220	C	73	10	4.0	6.1	1.3	2	634	2,778	8.09%	III	6.5	OK	1.0	OK	--	--	--	--	
18	P	18	220	C	73	10	18.8	6.1	1.3	2	1,239	6,342	8.97%	III	6.5	OK	1.0	OK	--	--	--	--	
19	P	19	230	C	73	20	12.1	5.8	1.0	2	1,068	5,756	9.27%	III	6.5	NO	1.0	OK	0.7	--	2001	Minor	
20	P	20	250	C	74	20	14.5	6.1	1.5	2	96	1,404	15.17%	IV	6.0	OK	0.5	OK	--	--	--	--	
21	P	20	220	C	74	10	4.0	6.1	1.0	2	96	1,404	15.17%	IV	6.0	OK	0.5	OK	--	--	--	--	
22	P	21	220	C	74	20	9.5	6.1	1.5	2	847	5,591	10.44%	III	6.5	OK	1.0	OK	--	--	--	--	
23	P	22	250	C	75	1	9.2	6.1	1.8	2	213	2,354	13.48%	III	6.5	OK	1.0	OK	--	--	--	--	
24	P	23	730	C	76	10	3.0	5.7	1.3	2	356	1,099	6.11%	IV	6.0	OK	0.5	OK	--	--	--	--	
25	P	24	240	C	77	20	14.8	6.0	2.2	2	761	1,946	5.07%	IV	6.0	OK	0.5	OK	--	--	--	--	
26	P	24	740	C	77	10	18.1	6.0	2.2	2	761	1,946	5.07%	IV	6.0	OK	0.5	OK	--	--	--	--	
27	P	25	240	C	77	20	25.5	6.1	1.7	2	1,003	3,299	6.47%	III	6.5	OK	1.0	OK	--	--	--	--	
28	P	26	240	C	77	20	11.7	6.1	1.7	2	1,016	3,341	6.47%	III	6.5	OK	1.0	OK	--	--	--	--	
29	P	27	730	C	77	30	9.7	6.1	1.7	2	233	1,690	10.99%	IV	6.0	OK	0.5	OK	--	--	--	--	
30	P	28	730	C	77	30	30.0	6.1	1.7	2	209	748	6.94%	IV	6.0	OK	0.5	OK	--	--	--	--	
31	P	34	240	C	83	20	9.0	5.5	1.5	2	15	40	5.30%	VIII	6.0	OK	--	OK	--	--	--	--	
32	P	34	740	C	83	10	2.0	5.5	1.5	2	15	40	5.30%	VIII	6.0	OK	--	OK	--	--	--	--	
33	P	35	620	C	86	1	11.4	6.2	1.0	2	2,040	3,638	3.09%	III	6.5	NO	1.0	OK	0.3	--	1995	Minor	

No.	PAVED GRAVEL EARTH	S.L. No.	MOPW District	Road Code RANK	NO.	SEC.	Existing Length (km)	Goemetry C/W Width (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type Class	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
34	P	36	740	C	88	1	39.9	6.3	2.1	2	3,994	8,932	4.33%	III	6.5	OK	1.0	OK	--	--	--	--	
35	P	37	110	C	89	1	2.0	7.0	1.9	2	533	956	3.12%	IV	6.0	OK	0.5	OK	--	--	--	--	
36	P	38	110	C	89	1	2.5	7.0	1.9	2	190	553	5.78%	IV	6.0	OK	0.5	OK	--	--	--	--	
37	P	44	440	C	97	10	15.3	6.3	1.2	2	7,343	14,479	3.64%	III	6.5	OK	1.0	OK	--	--	--	--	
38	P	45	440	C	97	10	9.8	6.3	1.2	2	370	1,348	7.04%	IV	6.0	OK	0.5	OK	--	--	--	--	
39	P	46	430	C	97	20	25.5	7.0	1.1	2	379	1,267	6.56%	IV	6.0	OK	0.5	OK	--	--	--	--	
40	P	47	440	C	97	10	32.5	6.3	1.2	2	199	475	4.69%	VIII	6.0	OK	--	OK	--	--	--	--	
41	P	48	110	C	98	10	25.0	7.0	1.5	2	319	3,000	12.52%	III	6.5	OK	1.0	OK	--	--	--	--	
42	P	49	440	C	98	20	36.6	5.8	1.7	2	318	1,551	8.70%	IV	6.0	OK	0.5	OK	--	--	--	--	
43	P	50	440	C	99	1	20.3	5.8	1.6	2	540	1,448	5.33%	IV	6.0	OK	0.5	OK	--	--	--	--	
44	P	51	440	C	99	1	9.5	5.8	1.6	2	10	20	3.72%	VIII	6.0	OK	--	OK	--	--	--	--	
45	P	56	710	C	102	1	12.0	5.5	0.5	2	10	20	3.72%	VIII	6.0	OK	--	OK	--	--	--	--	
46	P	61	310	C	103	30	7.0	5.5	0.5	2	229	1,466	10.26%	IV	6.0	NO	0.5	OK	0.5	--	2002	Minor	
47	P	62	350	C	105	1	4.0	6.5	1.3	2	998	3,266	6.44%	III	6.5	OK	1.0	OK	--	--	--	--	
48	P	63	350	C	105	1	2.5	6.5	1.3	2	520	1,886	7.02%	IV	6.0	OK	0.5	OK	--	--	--	--	
49	P	64	320	C	106	1	18.0	6.0	1.1	2	200	550	5.47%	IV	6.0	OK	0.5	OK	--	--	--	--	
50	P	71	310	C	111	1	21.2	6.5	1.2	2	45	1,419	19.92%	IV	6.0	OK	0.5	OK	--	--	--	--	
51	P	72	360	C	112	10	29.0	6.0	0.0	2	112	623	9.45%	IV	6.0	OK	0.5	NO	--	0.5	2011	Minor	
52	P	74	310	C	115	1	39.2	6.0	0.0	2	25	70	5.57%	VIII	6.0	OK	--	OK	--	--	--	--	
53	P	75	510	C	116	10	19.0	6.0	0.0	2	12	35	5.80%	VIII	6.0	OK	--	OK	--	--	--	--	
54	P	75	510	C	116	10	154.0	6.0	0.0	2	12	35	5.80%	VIII	6.0	OK	--	OK	--	--	--	--	

CLASS C , GRAVEL ROADS (GROUPE-I)

No.	PAVED GRAVEL EARTH	S.L. No.	MOPW Road Code District	RANK	NO.	SEC.	Existing Length km	Goemetry C/W (m)	Goemetry S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type Class	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	G	1	750	C	13	10	21.0	5.0	1.0	2	44	659	15.31%	IV	6.0	OK	0.5	OK	--	--	--	--	
2	G	1	750	C	13	10	44.0	5.0	1.0	2	44	659	15.31%	IV	6.0	OK	0.5	OK	--	--	--	--	
3	G	2	750	C	13	20	24.1	5.0	1.0	1	44	658	15.30%	IV	6.0	OK	0.5	OK	--	--	--	--	
4	G	2	750	C	13	10	21.0	5.0	1.0	2	44	658	15.30%	IV	6.0	OK	0.5	OK	--	--	--	--	
5	G	3	750	C	14	20	14.0	5.0	1.0	2	50	150	5.95%	VIII	6.0	OK	--	OK	--	--	--	--	
6	G	4	750	C	14	10	57.8	5.0	1.0	2	50	150	5.95%	VIII	6.0	OK	--	OK	--	--	--	--	
7	G	5	720	C	15	1	28.8	5.0	1.0	2	70	220	6.21%	VIII	6.0	OK	--	OK	--	--	--	--	
8	G	6	610	C	16	1	28.8	5.0	1.0	2	50	191	7.31%	VIII	6.0	OK	--	OK	--	--	--	--	
9	G	11	640	C	18	1	29.7	5.0	0.0	2	140	400	5.68%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
10	G	13	640	C	19	20	27.5	5.0	1.0	2	1,209	3,249	5.34%	III	6.5	NO	1.0	OK	1.5	--	2004	Minor	
11	G	14	610	C	20	10	14.2	5.0	0.0	2	1,200	3,200	5.30%	III	6.5	NO	1.0	NO	1.5	1.0	2004	Minor	
12	G	16	650	C	21	10	46.2	5.0	1.0	2	42	3,569	26.34%	III	6.5	NO	1.0	OK	1.5	--	2011	Minor	
13	G	17	650	C	21	10	16.5	5.0	1.0	2	36	3,985	28.11%	III	6.5	NO	1.0	OK	1.5	--	2010	Minor	
14	G	18	650	C	22	1	22.5	5.0	1.0	2	26	1,115	21.87%	IV	6.0	OK	0.5	OK	--	--	--	--	
15	G	19	650	C	22	1	16.0	5.0	1.0	2	66	1,936	19.46%	IV	6.0	OK	0.5	OK	--	--	--	--	
16	G	24	720	C	25	1	26.0	5.0	1.0	2	37	90	4.79%	VIII	6.0	OK	--	OK	--	--	--	--	
17	G	25	640	C	26	1	21.0	5.0	0.0	2	589	2,212	7.21%	III	6.5	NO	1.0	NO	1.5	1.0	2012	Minor	
18	G	27	630	C	28	1	15.0	5.0	1.0	2	40	100	4.94%	VIII	6.0	OK	--	OK	--	--	--	--	
19	G	28	630	C	28	1	20.0	5.0	1.0	2	650	1,803	5.52%	IV	6.0	OK	0.5	OK	--	--	--	--	
20	G	29	630	C	29	10	25.0	5.0	1.0	2	130	330	5.03%	VIII	6.0	OK	--	OK	--	--	--	--	
21	G	32	920	C	30	20	27.1	4.0	0.0	1	9	32	6.90%	VIII	6.0	NO	--	OK	2.0	--	--	Minor	
22	G	32	930	C	30	30	8.0	5.0	0.0	1	9	32	6.90%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
23	G	33	920	C	31	10	31.6	4.0	0.0	1	10	35	6.82%	VIII	6.0	NO	--	OK	2.0	--	--	Minor	
24	G	36	920	C	42	1	25.5	4.0	1.0	1	15	40	5.30%	VIII	6.0	OK	--	OK	--	--	--	--	
25	G	36	920	C	32	12	7.0	5.0	0.0	1	15	40	5.30%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
26	G	37	910	C	33	20	20.0	5.0	0.0	1	15	60	7.57%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
27	G	38	930	C	33	10	16.0	4.0	0.0	1	15	60	7.57%	VIII	6.0	NO	--	OK	2.0	--	--	Minor	
28	G	38	940	C	33	11	3.0	4.0	0.0	1	15	60	7.57%	VIII	6.0	NO	--	OK	2.0	--	--	Minor	
29	G	43	930	C	33	20	10.0	5.0	0.0	2	5	12	4.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
30	G	47	720	C	35	10	5.0	5.0	1.0	2	208	6,459	19.82%	III	6.5	NO	1.0	OK	1.5	--	2007	Minor	
31	G	47	720	C	35	10	49.4	5.0	1.0	2	208	6,459	19.82%	III	6.5	NO	1.0	OK	1.5	--	2007	Minor	
32	G	50	770	C	37	30	10.5	5.0	1.0	2	33	417	14.28%	VIII	6.0	OK	--	OK	--	--	--	--	
33	G	52	830	C	37	20	52.0	5.0	1.0	2	5	470	27.01%	VIII	6.0	OK	--	OK	--	--	--	--	

No.	PAVED GRAVEL EARTH	S.L. No.	MOPW District	Road Code RANK	NO.	SEC.	Existing Length (km)	Goemetry C/W Wid (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type Class	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
34	G	56	940	C	39	30	19.1	5.0		2	140	370	5.25%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
35	G	57	910	C	41	20	15.9	5.0		2	50	140	5.57%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
36	G	57	910	C	41	10	27.9	5.0		2	50	140	5.57%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
37	G	58	910	C	42	1	18.9	4.0	1.0	1	6	20	6.54%	VIII	6.0	OK	--	OK	--	--	--	--	
38	G	59	920	C	43	1	19.0	6.0	1.0	2	105	499	8.55%	VIII	6.0	OK	--	OK	--	--	--	--	
39	G	60	910	C	44	20	17.3	5.0	0.5	2	50	127	5.03%	VIII	6.0	OK	--	OK	--	--	--	--	
40	G	60	760	C	44	30	28.5	5.0		2	65	180	5.51%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
41	G	64	760	C	48	12	44.7	4.0		1	30	80	5.30%	VIII	6.0	NO	--	OK	2.0	--	--	Minor	
42	G	64	820	C	48	20	21.0	5.0		2	30	80	5.30%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
43	G	65	770	C	50	1	20.0	5.0	1.0	2	12	5,524	38.09%	III	6.5	NO	1.0	OK	1.5	--	2010	Minor	
44	G	66	770	C	50	1	31.7	5.0	1.0	2	12	5,559	38.14%	III	6.5	NO	1.0	OK	1.5	--	2010	Minor	
45	G	73	770	C	53	20	11.0	5.0	1.0	2	160	2,950	16.58%	III	6.5	NO	1.0	OK	1.5	--	2010	Minor	
46	G	74	820	C	53	20	19.0	5.0		2	160	2,950	16.58%	III	6.5	NO	1.0	NO	1.5	1.0	2010	Minor	
47	G	75	820	C	53	20	18.5	5.0		2	160	2,950	16.58%	III	6.5	NO	1.0	NO	1.5	1.0	2010	Minor	
48	G	76	820	C	54	20	24.7	5.0		2	160	2,950	16.58%	III	6.5	NO	1.0	NO	1.5	1.0	2010	Minor	
49	G	81	750	C	57	11	62.0	5.0	1.0	2	91	311	6.68%	VIII	6.0	OK	--	OK	--	--	--	--	
50	G	99	210	C	64	20	13.2	5.0	1.0	2	1,588	4,086	5.10%	III	6.5	NO	1.0	OK	1.5	--	1999	Minor	

CLASS C , GRAVEL ROADS (GROUPE-II)

No.	PAVED GRAVEL EARTH	S.L. No.	MOPW District	Road Code RANK	NO.	SEC.	Existing Length (km)	Goemetry C/W (m)	Wid S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type Class	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	G	6	230	C	67	10	15.4	5.0	1.0	2	100	424	7.90%	VIII	6.0	OK	--	OK	--	--	--	--	
2	G	6	240	C	67	20	24.9	5.0	1.0	2	100	424	7.90%	VIII	6.0	OK	--	OK	--	--	--	--	
3	G	8	740	C	67	30	11.0	5.0	1.0	2	1,300	4,995	7.34%	III	6.5	NO	1.0	OK	1.5	--	2000	Minor	
4	G	11	240	C	69	20	17.0	5.0	1.0	2	20	59	5.86%	VIII	6.0	OK	--	OK	--	--	--	--	
5	G	11	240	C	69	20	21.0	5.0	1.0	2	20	59	5.86%	VIII	6.0	OK	--	OK	--	--	--	--	
6	G	12	240	C	69	20	42.0	5.0	1.0	2	156	518	6.52%	IV	6.0	OK	0.5	OK	--	--	2012	Minor	
7	G	13	230	C	70	10	23.0	5.0	1.0	2	1,218	16,652	14.76%	I	14.0	NO	2.5	NO	9.0	1.5	2012	Dualize	
8	G	23	240	C	76	20	12.0	5.0	1.0	2	356	1,099	6.11%	IV	6.0	OK	0.5	OK	--	--	--	--	
9	G	23	730	C	76	10	55.0	5.0		2	356	1,099	6.11%	IV	6.0	NO	0.5	NO	1.0	0.5	2000	Minor	
10	G	28	730	C	77	30	15.6	5.0	1.0	2	209	748	6.94%	IV	6.0	OK	0.5	OK	--	--	--	--	
11	G	28	730	C	77	30	57.7	5.0	1.0	2	209	748	6.94%	IV	6.0	OK	0.5	OK	--	--	--	--	
12	G	28	840	C	77	40	19.0	5.0	1.0	2	209	748	6.94%	IV	6.0	OK	0.5	OK	--	--	--	--	
13	G	29	840	C	77	40	55.0	5.0	1.0	2	180	650	6.99%	IV	6.0	OK	0.5	OK	--	--	--	--	
14	G	29	840	C	77	40	27.5	5.0	1.0	2	180	650	6.99%	IV	6.0	OK	0.5	OK	--	--	--	--	
15	G	30	840	C	77	40	17.5	5.0	1.0	2	209	748	6.94%	IV	6.0	OK	0.5	OK	--	--	--	--	
16	G	34	240	C	83	20	21.7	5.0	1.0	2	15	40	5.30%	VIII	6.0	OK	--	OK	--	--	--	--	
17	G	39	630	C	90	10	24.8	5.0	1.0	2	25	70	5.57%	VIII	6.0	OK	--	OK	--	--	--	--	
18	G	39	920	C	90	20	4.5	5.0	1.0	2	25	70	5.57%	VIII	6.0	OK	--	OK	--	--	--	--	
19	G	40	410	C	92	10	41.1	5.0	1.0	2	70	920	14.52%	IV	6.0	OK	0.5	OK	--	--	--	--	
20	G	41	460	C	92	20	68.0	5.0	1.0	2	70	920	14.52%	IV	6.0	OK	0.5	OK	--	--	--	--	
21	G	42	410	C	93	20	4.0	5.0	1.0	2	25	70	5.57%	VIII	6.0	OK	--	OK	--	--	--	--	
22	G	42	430	C	93	10	58.0	5.0	1.0	2	25	70	5.57%	VIII	6.0	OK	--	OK	--	--	--	--	
23	G	43	430	C	94	1	42.7	5.0	1.0	2	25	70	5.57%	VIII	6.0	OK	--	OK	--	--	--	--	
24	G	48	440	C	98	20	20.0	5.0	1.0	2	319	3,000	12.52%	III	6.5	NO	1.0	OK	1.5	--	2010	Minor	
25	G	50	470	C	99	2	30.0	5.0	1.0	2	540	1,448	5.33%	IV	6.0	OK	0.5	OK	--	--	--	--	
26	G	51	440	C	99	2	30.0	5.0	1.0	2	10	20	3.72%	VIII	6.0	OK	--	OK	--	--	--	--	
27	G	51	470	C	99	2	25.0	5.0	1.0	2	10	20	3.72%	VIII	6.0	OK	--	OK	--	--	--	--	
28	G	52	470	C	99	2	54.0	5.0	1.0	2	50	133	5.28%	VIII	6.0	OK	--	OK	--	--	--	--	
29	G	53	440	C	100	1	27.2	5.0	1.0	2	140	883	10.18%	IV	6.0	OK	0.5	OK	--	--	--	--	
30	G	54	440	C	100	1	5.0	5.0	1.0	2	457	1,684	7.11%	IV	6.0	OK	0.5	OK	--	--	--	--	
31	G	55	440	C	101	1	10.0	5.0	1.0	2	40	113	5.62%	VIII	6.0	OK	--	OK	--	--	--	--	
32	G	55	470	C	101	2	42.0	5.0	1.0	2	40	113	5.62%	VIII	6.0	OK	--	OK	--	--	--	--	
33	G	56	710	C	102	1	86.0	5.0	1.0	2	10	20	3.72%	VIII	6.0	OK	--	OK	--	--	--	--	
34	G	57	710	C	102	1	9.0	5.0	1.0	2	48	49	0.11%	VIII	6.0	OK	--	OK	--	--	--	--	

No.	PAVED GRAVEL EARTH	S.L. No.	MOPW District	Road Code RANK	NO.	SEC.	Existing Length (km)	Goemetry C/W Wid (m)	S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type Class	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
35	G	58	710	C	102	1	5.0	5.0	1.0	2	10	20	3.72%	VIII	6.0	OK	--	OK	--	--	--	--	
36	G	60	350	C	103	20	20.0	5.0	--		10	20	3.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
37	G	60	310	C	103	30	116.0	5.0	1.0	2	10	20	3.72%	VIII	6.0	OK	--	OK	--	--	--	--	
38	G	61	310	C	103	10	77.1	5.0	1.0	2	229	1,466	10.26%	IV	6.0	OK	0.5	OK	--	--	--	--	
39	G	61	310	C	103	10	32.0	5.0	1.0	2	229	1,466	10.26%	IV	6.0	OK	0.5	OK	--	--	--	--	
40	G	61	310	C	103	10	80.0	5.0	1.0	2	229	1,466	10.26%	IV	6.0	OK	0.5	OK	--	--	--	--	
41	G	69	320	C	107	20	27.0	5.0	1.0	2	25	70	5.57%	VIII	6.0	OK	--	OK	--	--	--	--	
42	G	70	320	C	108	1	50.0	5.0	1.0	2	25	70	5.57%	VIII	6.0	OK	--	OK	--	--	--	--	
43	G	73	810	C	113	10	30.0	5.0	1.0	2	10	35	6.82%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
44	G	76	920	C	32	11	13.6	5.0	1.0	2	10	35	6.82%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
45	G	76	920	C	32	11	5.6	5.0	1.0	2	10	35	6.82%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	

CLASS C , EARTH ROADS (GROUPE-I)

No.	PAVED GRAVEL EARTH	S.L. No.	MOPW Road Code District	RANK	NO.	SEC.	Existing Goemetry Length km	C/W (m)	WidS-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type Class	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	E	1	750	C	13	10	29.0	5.0	1.0	2	44	659	15.31%	IV	6.0	NO	0.5	OK	1.0	--	2011	Minor	
2	E	3	750	C	14	10	14.7	5.0	0.0	2	50	150	5.95%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
3	E	10	750	C	17	20	31.1	5.0	0.0	2	70	270	7.36%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
4	E	31	920	C	30	20	36.0	5.0	0.0	2	10	35	6.82%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
5	E	34	930	C	31	20	9.0	5.0	0.0	2	10	35	6.82%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
6	E	35	930	C	31	20	7.0	5.0	0.0	2	9	32	6.90%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
7	E	37	930	C	33	10	4.5	5.0	0.0	2	15	60	7.57%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
8	E	39	910	C	33	10	4.5	5.0	0.0	2	9	43	8.58%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
9	E	57	910	C	41	20	5.0	5.0		2	50	140	5.57%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
10	E	59	920	C	43	1	10.5	5.0	1.0	2	105	499	8.55%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
11	E	60	930	C	44	10	19.3	5.0	1.0	2	50	127	5.03%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
12	E	62	850	C	46	10	51.0	5.0	1.0	2	25	60	4.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
13	E	62	860	C	46	20	45.0	5.0	0.0	2	25	60	4.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
14	E	63	850	C	46	10	64.0	5.0	1.0	2	25	60	4.72%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
15	E	64	760	C	48	12	16.5	5.0	1.0	2	30	80	5.30%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
16	E	64	770	C	48	31	18.9				30	80	5.30%	VIII	6.0	NO	--	OK	6.0	--	--	Dualize	
17	E	71	810	C	51	40	15.5	5.0	1.0	2	19	906	22.56%	IV	6.0	NO	0.5	OK	1.0	--	2010	Minor	
18	E	71	810	C	51	30	39.0	5.0	1.0	2	19	906	22.56%	IV	6.0	NO	0.5	OK	1.0	--	2010	Minor	
19	E	72	810	C	52	1	85.7	5.0	1.0	2	20	50	4.94%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	

CLASS C , EARTH ROADS (GROUPE-II)

	PAVED GRAVEL EARTH	S.L. No.	MOPW District	Road Code RANK	NO.	SEC.	Existing Length (km)	Goemetry C/W (m)	Wid S-Width (m)	Lanes (Nos)	ADT 1994 (PCU)	ADT 2013 (PCU)	Growth Ratio (%/Year)	Cross Section to be Adopted Type Class	C/W (m)	Status	S/W (m)	Status	Cross Section Improvement C/W (m)	S/W (m)	Year	Type	Remarks
1	E	11	240	C	69	20	20.0	5.0	1.0	2	20	59	5.86%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
2	E	29	730	C	77	50	127.0	5.0	0.0	2	180	650	6.99%	IV	6.0	NO	0.5	NO	1.0	0.5	2009	Minor	
3	E	29	450	C	82	0	218.3	5.0		2	180	650	6.99%	IV	6.0	NO	0.5	NO	1.0	0.5	2009	Minor	
4	E	29	730	C	77	0	50.7	5.0		2	180	650	6.99%	IV	6.0	NO	0.5	NO	1.0	0.5	2009	Minor	
5	E	31	840	C	79	1	44.0	5.0		2	25	65	5.16%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
6	E	31	840	C	78	1	88.0	5.0		2	25	65	5.16%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
7	E	32	450	C	80	10	64.0	5.0	0.0	2	12	35	5.80%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
8	E	32	530	C	80	20	194.0	5.0	0.0	2	12	35	5.80%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
9	E	33	510	C	81	1	157.5	5.0	1.0	2	25	70	5.57%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
10	E	42	410	C	93	20	8.3	5.0	1.0	2	25	70	5.57%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
11	E	42	430	C	93	10	39.3	5.0	1.0	2	25	70	5.57%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
12	E	64	320	C	106	1	38.0	5.0	1.0	2	200	550	5.47%	IV	6.0	NO	0.5	OK	1.0	--	2011	Minor	
13	E	64	320	C	106	1	18.0	5.0	1.0	2	200	550	5.47%	IV	6.0	NO	0.5	OK	1.0	--	2011	Minor	
14	E	65	320	C	106	1	37.7	5.0	1.0	2	200	550	5.47%	IV	6.0	NO	0.5	OK	1.0	--	2011	Minor	
15	E	66	310	C	107	10	19.0	5.0	1.0	2	76	140	3.27%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
16	E	67	310	C	107	10	19.0	5.0	1.0	2	76	1,405	16.59%	IV	6.0	NO	0.5	OK	1.0	--	2006	Minor	
17	E	68	310	C	107	10	11.0	5.0	1.0	2	76	1,412	16.62%	IV	6.0	NO	0.5	OK	1.0	--	2006	Minor	
18	E	69	320	C	107	20	15.0	5.0	1.0	2	25	70	5.57%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	
19	E	72	330	C	112	20	93.4	5.0	1.0	2	112	623	9.45%	IV	6.0	NO	0.5	OK	1.0	--	2011	Minor	
20	E	73	850	C	113	20	134.0	5.0	1.0	2	10	35	6.82%	VIII	6.0	NO	--	OK	1.0	--	--	Minor	

III. ENGINEERING ASSESSMENT ON PAVING CONDITIONS

DESCRIPTION

1. Engineering assessment on paving conditions is consist of:

1) existing paving conditions
   - surface type ; surface dressing ---------- 1
     premixed asphalt concrete ----- 2
   - thickness of new surface layer (N/L)
   - thickness of old surface layer (O/L)
   - base type ; granular ---------- 1
     cement stabilized ---------- 2
   - base layer thickness
   - subgrade soil type
   - subgrade CBR
   - design and modified structure number
   - pavement age
   - international surface roughness
   - public serviceability index

2) existing heavy vehicle traffic

3) future heavy vehicle traffic forecasted

4) cumulative equivalent standard axle load (ESA, 18 kip)

5) annual roughness progression based on existing paving structure and averaged annual ESA.

6) every 5 year roughness in 1995, 2000, 2005, 2010 and 2015

2. Assessment criteria

(1) Upgrading of Paving Structure

As described in Chapter 6.4 of Volume I, the diagram of surface type upgrading is as shown below.

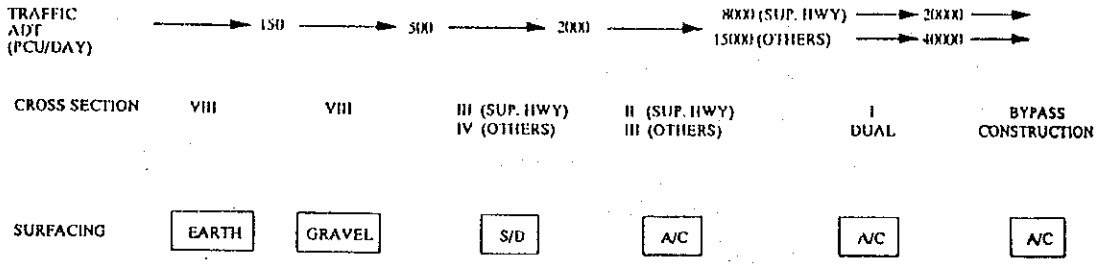

Fig. A.2-4 Surface Type Diagram

(2) Period Maintenance Requirement

Periodic maintenance criteria is shown on the table below.

Table A.2-2 Maintenance Options

Surface	Grading	Regraveling	Resealing	Overlay	Rehabilitation	Reconstruction
A/C Paved Road				IRI 6	IRI 8	IRI 10
SD Paved Roads			IRI 6		IRI 8	IRI 10
Gravel Roads	Twice a Year	5 Years Interva				
Earth Roads	Twice a Year					

IRI: International Roughness Index

3. Abbreviation

1)	AC Recon	:	reconstruction of premixed asphalt concrete surface type paving
2)	Upg. AC	:	upgrading to premixed asphalt concrete surface type paving
3)	AC Rehab	:	rehabilitation of paving structure with premixed asphalt concrete surface
4)	Overlay	:	resurfacing with premixed asphalt concrete, 50 mm thick
5)	SD Recon	:	reconstruction of double surface dressing type paving
6)	Upg. SD	:	upgrading to double surface dressing type paving
7)	SD Rehab	:	rehabilitation of paving structure with double surface dressing
8)	Reseal	:	resurfacing with double surface dressing, 20~25 mm
9)	Upg. G	:	upgrading to gravel surfacing
10)	OK	:	no works required except routine maintenance ($2 \leq$ IRI < 6)
11)	Mnt.G, Mnt.E	:	routine maintenance for gravel surfaced road and earth road respectively

ENGINEERING ASSESSMENT ON PAVING CONDITIONS (CLASS A)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH PCU (YR)	RATIO HEAVY (YR)	AADT IN YEAR 10(PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill.)	Traffic Class
1	AC	1	660	A	1	11	52.0	1,734	268	2,612	330	2.18%	1.10%	2105	2		50	2	125	S2	6	1.9	T4
2	AC	2	660	A	1	11	4.0	1,732	268	2,609	330	2.18%	1.10%	2103	2		50	2	125	S2	6	1.9	T4
3	SD	2	610	A	1	20	16.5	1,732	268	2,609	330	2.18%	1.10%	2103	1	20	25	2	150	S2	6	1.9	T4
4	AC	3	660	A	1	11	2.0	1,732	268	2,609	330	2.18%	1.10%	2103	2		50	2	125	S2	6	1.9	T4
5	AC	4	660	A	1	11	11.0	1,732	268	2,609	330	2.18%	1.10%	2103	2		50	2	125	S2	6	1.9	T4
6	SD	5	610	A	1	20	14.5	1,732	268	2,609	330	2.18%	1.10%	2103	1	20	25	2	150	S2	6	1.9	T4
7	AC	5	640	A	1	12	4.8	1,732	268	2,609	330	2.18%	1.10%	2103	2		50	3	175	S2	6	1.9	T4
8	AC	6	640	A	1	12	32.4	903	123	2,322	355	5.10%	5.74%	1412	2		50	3	175	S2	6	1.2	T4
9	AC	7	640	A	1	12	4.8	974	135	3,676	611	7.24%	8.27%	1827	2		50	3	175	S2	6	1.6	T4
10	SD	8	620	A	1	31	20.0	935	129	3,520	585	7.23%	8.28%	1752	1	20	25	1	150	S1	3	1.6	T4
11	SD	9	620	A	1	31	20.0	4,636	892	9,834	1,954	4.04%	4.21%	6620	1	20	25	1	150	S1	3	7.9	T3
12	SD	10	620	A	1	31	17.5	1,548	252	4,546	763	5.83%	6.00%	2579	1	20	25	1	150	S1	3	2.6	T4
13	SD	11	620	A	1	31	5.0	4,497	665	12,540	2,065	5.55%	6.15%	7310	1	20	25	1	150	S1	3	6.9	T3
14	AC	12	620	A	1	32	5.6	4,569	675	9,441	1,348	3.89%	3.71%	6444	2	50	25	1	300	S5	20	5.8	T3
15	SD	13	930	A	1	40	2.0	565	123	1,716	366	6.02%	5.91%	956	1	25	25	1	260	S2	6	1.2	T4
16	AC	14	940	A	1	41	6.0	3,849	524	10,155	1,612	5.24%	6.09%	6094	2	50	25	2	130	S2	6	5.4	T3
17	SD	14	930	A	1	40	15.0	3,849	524	10,155	1,612	5.24%	6.09%	6094	1	25	25	1	260	S2	6	5.4	T3
18	SD	15	930	A	1	40	44.4	562	123	1,708	365	6.02%	5.89%	951	1	25	25	1	260	S2	6	1.2	T4
19	AC	16	940	A	1	41	7.0	2,386	375	8,712	1,433	7.05%	7.31%	4406	2	50	25	2	130	S2	6	4.2	T3
20	AC	17	940	A	1	41	7.0	3,562	442	10,584	1,576	5.90%	6.92%	5967	2	50	25	2	130	S2	6	4.8	T3
21	SD	18	910	A	1	50	10.0	414	77	1,334	220	6.35%	5.68%	721	1	25	25	1	130	S2	6	0.8	T5
22	SD	19	910	A	1	50	20.3	412	77	1,327	220	6.35%	5.68%	717	1	25	25	1	130	S2	6	0.8	T5
23	SD	20	760	A	1	61	25.0	414	77	1,461	241	6.86%	6.19%	752	1	25	25	1	400	S2	6	0.8	T5
24	SD	21	760	A	1	61	30.8	670	177	1,266	207	3.41%	0.83%	906	1	25	25	1	400	S2	6	1.2	T4
25	SD	21	860	A	1	70	14.8	670	177	1,266	207	3.41%	0.83%	906	1		20	1	130	S2	6	1.2	T4
26	SD	22	760	A	1	61	6.0	414	77	1,461	241	6.86%	6.19%	752	1	25	25	1	400	S3	8	0.8	T5
27	SD	23	860	A	1	70	41.5	508	143	391	101	-1.37%	-1.81%	449	1		20	1	130	S2	6	0.8	T5
28	SD	24	860	A	1	70	46.0	312	88	825	214	5.25%	4.79%	495	1		20	1	130	S2	6	0.8	T5
29	SD	24	850	A	1	80	80.0	312	88	825	214	5.25%	4.79%	495	1		20	1	130	S3	8	0.8	T5
30	SD	25	850	A	1	80	88.0	557	158	823	214	2.08%	1.61%	670	1		20	1	130	S3	8	1.2	T4
31	SD	26	850	A	1	80	66.5	71	19	194	54	5.43%	5.65%	114	1		20	1	130	S3	8	0.2	T5
32	SD	27	850	A	1	80	146.0	71	19	194	54	5.43%	5.65%	114	1		20	1	130	S3	8	0.2	T5
33	E	27	850	A	1	80	30.0	71	19	194	54	5.43%	5.65%	114	NA	NA	NA	NA	NA	NA	NA	0.2	T5
34	AC	28	110	A	2	1	7.7	12,435	1,179	33,132	3,457	5.29%	5.83%	19781	2		50	2	200	S2	6	5.9	T3

ENGINEERING ASSESSMENT ON PAVING CONDITIONS (CLASS A)

(continued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave Age (yrs)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
1	AC	1	660	A	1	11	52.0	2.00	2.8	24	12	-1.3	0.09	12	AC Recon	2	OK	3	OK	3	OK	4	OK
2	AC	2	660	A	1	11	4.0	2.00	2.8	24	12	-1.3	0.09	12	AC Recon	2	OK	3	OK	3	OK	4	OK
3	SD	2	610	A	1	20	16.5	1.70	2.5	13	8	0.5	0.09	8	Upg. AC	2	OK	3	OK	3	OK	4	OK
4	AC	3	660	A	1	11	2.0	2.00	2.8	24	12	-1.3	0.09	12	AC Recon	2	OK	3	OK	3	OK	4	OK
5	AC	4	660	A	1	11	11.0	2.00	2.8	24	12	-1.3	0.09	12	AC Recon	2	OK	3	OK	3	OK	4	OK
6	SD	5	610	A	1	20	14.5	1.70	2.5	13	8	0.5	0.09	8	Upg. AC	2	OK	3	OK	3	OK	4	OK
7	AC	5	640	A	1	12	4.8	3.04	3.8	24	8	0.5	0.03	8	AC Rehab	2	OK	2	OK	2	OK	3	OK
8	AC	6	640	A	1	12	32.4	3.04	3.8	24	8	0.5	0.02	8	AC Rehab	2	OK	2	OK	2	OK	2	OK
9	AC	7	640	A	1	12	4.8	3.04	3.8	24	8	0.5	0.02	8	AC Rehab	2	OK	2	OK	2	OK	2	OK
10	SD	8	620	A	1	31	20.0	2.25	3.0	24	8	0.5	0.06	8	Upg. AC	2	OK	3	OK	3	OK	3	Ovrlay
11	SD	9	620	A	1	31	20.0	2.25	3.0	24	8	0.5	0.29	8	Upg. AC	3	OK	5	OK	6	Ovrlay	4	OK
12	SD	10	620	A	1	31	17.5	2.25	3.0	24	8	0.5	0.09	8	SD Rehab	2	OK	3	OK	3	OK	4	OK
13	SD	11	620	A	1	31	5.0	2.25	3.0	24	8	0.5	0.25	8	Upg. AC	3	OK	4	OK	6	Ovrlay	4	OK
14	AC	12	620	A	1	32	5.6	2.44	3.3	34	4	2.4	0.15	4	OK	5	OK	6	OK	6	Reseal	4	OK
15	SD	13	930	A	1	40	2.0	1.55	2.3	26	5	1.9	0.11	5	OK	6	OK	6	Reseal	4	OK	4	OK
16	AC	14	940	A	1	41	6.0	2.25	3.1	28	5	1.9	0.17	5	OK	6	Ovrlay	4	OK	5	OK	6	Ovrlay
17	SD	14	930	A	1	40	15.0	1.55	2.3	26	5	1.9	0.17	5	OK	6	Upg. AC	3	OK	4	OK	5	OK
18	SD	15	930	A	1	40	44.4	1.55	2.3	26	5	1.9	0.11	5	OK	6	OK	6	Reseal	4	OK	4	OK
19	AC	16	940	A	1	41	7.0	2.25	3.0	28	5	1.9	0.15	5	OK	6	OK	7	OK	7	Upg. AC	3	OK
20	AC	17	940	A	1	41	7.0	2.25	3.0	28	5	1.9	0.17	5	OK	6	Upg. AC	3	OK	4	OK	5	OK
21	SD	18	910	A	1	50	10.0	0.92	1.7	23	6	1.5	0.19	6	Reseal	4	OK	5	OK	6	OK	7	Reseal
22	SD	19	910	A	1	50	20.3	0.92	1.7	23	6	1.5	0.19	6	Reseal	4	OK	5	OK	6	OK	7	Reseal
23	SD	20	760	A	1	61	25.0	2.22	3.0	23	9	0.1	0.03	9	SD Rehab	2	OK	2	OK	2	OK	3	OK
24	SD	21	760	A	1	61	30.8	2.22	3.0	23	9	0.1	0.04	9	SD Rehab	2	OK	2	OK	3	OK	3	OK
25	SD	21	860	A	1	70	14.8	0.70	1.5	10	8	0.5	0.48	8	SD Rehab	4	OK	7	Reseal	5	OK	8	Reseal
26	SD	22	760	A	1	61	6.0	2.22	3.3	15	9	0.1	0.02	9	SD Rehab	2	OK	2	OK	2	OK	2	OK
27	SD	23	860	A	1	70	41.5	0.70	1.5	10	8	0.5	0.32	8	SD Rehab	4	OK	5	OK	7	Reseal	5	OK
28	SD	24	860	A	1	70	46.0	0.70	1.5	10	8	0.5	0.32	8	SD Rehab	4	OK	5	OK	7	Reseal	5	OK
29	SD	24	850	A	1	80	80.0	0.70	1.8	7	7	1.0	0.19	7	Reseal	4	OK	5	OK	6	OK	7	Reseal
30	SD	25	850	A	1	80	88.0	0.70	1.8	7	7	1.0	0.27	7	Reseal	4	OK	6	OK	7	Reseal	4	OK
31	SD	26	850	A	1	80	66.5	0.70	1.8	7	7	1.0	0.04	7	Reseal	3	OK	3	OK	4	OK	4	OK
32	SD	27	850	A	1	80	146.0	0.70	1.8	7	7	1.0	0.04	7	Reseal	3	OK	3	OK	4	OK	4	OK
33	E	27	850	A	1	80	30.0	NA	NA		NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
34	AC	28	110	A	2	1	7.7	2.32	3.1	8	4	2.4	0.19	4	OK	5	OK	6	Ovrlay	4	OK	5	OK

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH PCU (YR)	RATIO HEAVY (YR)	AADT IN YEAR 10(PCU)	EXISTING PAVING CONDITIONS SURFACE Type	N/L (mm)	O/L (mm)	BASE Type	B/L (mm)	SUBGRADE Soil Type	CBR %	15YrS CUMUL. E.S.A. (Mill.)	Traffic Class
35	AC	28	210	A	2	11	9.1	12,435	1,179	33,132	3,457	5.29%	5.83%	19781	2		50	2	200	S2	6	5.9	T3
36	AC	29	110	A	2	1	7.7	12,232	1,118	35,790	3,805	5.81%	6.66%	20340	2		50	2	200	S2	6	6.0	T3
37	AC	30	230	A	2	11	1.0	8,766	1,054	35,971	4,320	7.71%	7.71%	17110	2	35	20	1	130	S3	8	6.1	T3
38	AC	31	210	A	2	11	18.0	15,458	1,438	41,519	4,297	5.34%	5.93%	24684	2		50	2	200	S2	6	7.3	T3
39	AC	32	210	A	2	14	10.0	8,766	1,054	35,694	4,255	7.67%	7.62%	17047	2		50	2	200	S2	6	6.1	T3
40	AC	33	230	A	2	20	13.5	7,548	936	19,042	2,321	4.99%	4.90%	11700	2	35	20	1	130	S3	8	4.4	T3
41	AC	34	230	A	2	30	10.0	1,596	275	7,795	1,760	8.71%	10.26%	3383	2	35	20	1	130	S3	8	2.0	T4
42	SD	34	220	A	2	20	26.0	1,596	275	7,795	1,760	8.71%	10.26%	3383	1	25	20	2	150	S2	6	2.0	T4
43	SD	35	220	A	2	30	10.0	914	173	5,957	1,100	10.37%	10.23%	2221	1	25	20	2	150	S2	6	1.2	T4
44	SD	36	220	A	2	30	17.7	751	144	1,666	223	4.28%	2.33%	1095	1	25	20	2	150	S2	6	1.1	T4
45	SD	37	250	A	2	40	48.6	837	195	2,837	594	6.64%	6.04%	1492	1		30	1	300	S3	8	2.0	T4
46	SD	37	730	A	2	50	3.8	837	195	2,837	594	6.64%	6.04%	1492	1	20	20	2	130	S3	8	2.0	T4
47	SD	38	250	A	2	40	12.6	626	138	523	120	-0.94%	-0.73%	575	1		30	1	300	S3	8	0.9	T5
48	SD	39	250	A	2	40	13.0	837	169	2,045	375	4.81%	4.28%	1278	1		30	1	300	S3	8	1.5	T4
49	SD	40	460	A	2	60	48.0	1,652	279	5,491	882	6.53%	6.25%	2918	1	20	20	2	130	S3	8	2.9	T4
50	SD	41	460	A	2	60	25.0	487	113	1,792	320	7.10%	5.63%	903	1	20	20	2	130	S3	8	1.1	T4
51	SD	42	420	A	2	70	9.0	142	43	428	89	5.98%	3.90%	239	1		20	2	130	S2	6	0.4	T5
52	G	42	420	A	2	70	36.0	142	43	428	89	5.98%	3.90%	239	NA	NA	NA	NA	NA	NA	NA	0.4	T5
53	G	42	420	A	2	80	18.0	142	43	428	89	5.98%	3.90%	239	NA	NA	NA	NA	NA	NA	NA	0.4	T5
54	G	43	420	A	2	80	74.0	142	43	429	90	5.99%	3.96%	240	NA	NA	NA	NA	NA	NA	NA	0.4	T5
55	G	43	450	A	2	90	124.5	142	43	429	90	5.99%	3.96%	240	NA	NA	NA	NA	NA	NA	NA	0.4	T5
56	SD	44	450	A	2	90	9.0	14	4	39	11	5.54%	5.47%	23	NA	NA	NA	NA	NA	NA	NA	0.0	T5
57	G	45	450	A	2	90	246.0	14	4	39	11	5.54%	5.47%	23	NA	NA	NA	NA	NA	NA	NA	0.0	T5
58	SD	46	210	A	3	11	13.1	1,632	310	2,919	564	3.11%	3.20%	2149	1	20	25	1	150	S2	6	2.6	T4
59	SD	46	210	A	3	12	23.7	1,632	310	2,919	564	3.11%	3.20%	2149	1	20	25	1	150	S2	6	2.6	T4
60	SD	46	440	A	3	21	13.1	1,632	310	2,919	564	3.11%	3.20%	2149	1	20	20	2	150	S2	6	2.6	T4
61	SD	47	440	A	3	21	20.0	1,584	305	3,152	577	3.69%	3.41%	2194	1	20	20	2	150	S2	6	2.6	T4
62	SD	47	440	A	3	22	6.0	1,584	305	3,152	577	3.69%	3.41%	2194	1	20	20	2	150	S3	8	2.6	T4
63	SD	48	440	A	3	22	6.0	1,571	156	813	300	-3.41%	3.50%	1150	1	20	20	2	150	S3	8	1.3	T4
64	SD	48	430	A	3	31	10.8	1,571	156	813	300	-3.41%	3.50%	1150	1	20	20	2	150	S3	8	1.3	T4
65	SD	48	430	A	3	32	27.9	1,571	156	813	300	-3.41%	3.50%	1150	1		25	1	250	S3	8	1.3	T4
66	SD	49	360	A	3	40	100.0	128	81	812	156	10.21%	3.51%	307	1		25	1	250	S3	8	0.7	T5
67	E	49	430	A	3	32	116.9	128	81	812	156	10.21%	3.51%	307	NA	NA	NA	NA	NA	NA	NA	0.7	T5
68	SD	50	430	A	3	32	14.0	1,556	155	805	297	-3.41%	3.48%	1139	1		25	1	250	S3	8	1.3	T4
69	SD	51	360	A	3	40	14.5	115	36	675	111	9.76%	6.11%	266	1		25	1	250	S3	8	0.4	T5
70	E	52	360	A	3	50	96.0	100	30	290	80	5.76%	-	166	NA	NA	NA	NA	NA	NA	NA	ERR	ERR

(continued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave Age (yrs)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
35	AC	28	210	A	2	11	9.1	2.32	3.1	8	6	1.5	0.19	6	Ovrlay	4	OK	5	OK	6	OK	7	Ovrlay
36	AC	29	110	A	2	1	7.7	2.32	3.1	8	4	2.4	0.19	4	OK	5	OK	6	Ovrlay	4	OK	5	OK
37	AC	30	230	A	2	11	1.0	1.34	2.4	28	7	1.0	0.51	8	Ovrlay	6	OK	8	AC Rehab	5	OK	7	Ovrlay
38	AC	31	210	A	2	11	18.0	2.32	3.1	8	6	1.5	0.23	6	Ovrlay	4	OK	5	OK	6	Ovrlay	4	OK
39	AC	32	210	A	2	14	10.0	2.32	3.1	8	6	1.5	0.19	6	Ovrlay	4	OK	5	OK	6	OK	7	Ovrlay
40	AC	33	230	A	2	20	13.5	1.34	2.4	28	7	1.0	0.36	7	Ovrlay	5	OK	7	Ovrlay	5	OK	7	Ovrlay
41	AC	34	230	A	2	30	10.0	1.34	2.4	28	7	1.0	0.16	7	Ovrlay	4	OK	5	OK	5	OK	6	Ovrlay
42	SD	34	220	A	2	20	26.0	1.72	2.5	5/16	6	1.5	0.14	6	Reseal	4	OK	4	OK	5	OK	6	OK
43	SD	35	220	A	2	30	10.0	1.72	2.5	5/16	6	1.5	0.09	6	Reseal	3	OK	4	OK	4	OK	5	OK
44	SD	36	220	A	2	30	17.7	1.72	2.5	5/16	6	1.5	0.08	6	Reseal	3	OK	4	OK	4	OK	5	OK
45	SD	37	250	A	2	40	48.6	1.56	2.6	4/20	12	-1.3	0.12	12	SD Recon	3	OK	3	OK	4	OK	4	OK
46	SD	37	730	A	2	50	3.8	1.49	2.5	5/20	8	0.5	0.13	8	SD Recon	3	OK	3	OK	4	OK	5	OK
47	SD	38	250	A	2	40	12.6	1.56	2.6	4/20	12	-1.3	0.05	12	SD Recon	2	OK	3	OK	3	OK	3	OK
48	SD	39	250	A	2	40	13.0	1.56	2.6	4/20	12	-1.3	0.09	12	SD Recon	2	OK	3	OK	3	OK	4	OK
49	SD	40	460	A	2	60	48.0	1.49	2.5	5/20	6	1.5	0.20	6	Reseal	4	OK	5	OK	6	OK	7	Reseal
50	SD	41	460	A	2	60	25.0	1.49	2.5	5/20	6	1.5	0.08	6	Reseal	3	OK	4	OK	4	OK	5	OK
51	SD	42	420	A	2	70	9.0	1.33	2.1	20	8	0.5	0.05	8	SD Rehab	2	OK	2	OK	3	OK	3	OK
52	G	42	420	A	2	70	36.0	NA	NA		NA	NA	NA		Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
53	G	42	420	A	2	80	18.0	NA	NA		NA	NA	NA		Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
54	G	43	420	A	2	80	74.0	NA	NA		NA	NA	NA		Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
55	G	43	450	A	2	90	124.5	NA	NA		NA	NA	NA		Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
56	SD	44	450	A	2	90	9.0	NA	NA		NA	NA	NA		Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
57	G	45	450	A	2	90	246.0	NA	NA		NA	NA	NA		Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
58	SD	46	210	A	3	11	13.1	0.98	1.8	31	8	0.5	0.40	8	SD Rehab	4	OK	6	OK	8	Reseal	5	OK
59	SD	46	210	A	3	12	23.7	0.98	1.8	31	8	0.5	0.40	8	SD Rehab	4	OK	6	OK	8	Reseal	5	OK
60	SD	46	440	A	3	21	13.1	1.68	2.4	12	6	1.5	0.21	6	Reseal	4	OK	5	OK	6	OK	7	Upg. AC
61	SD	47	440	A	3	21	20.0	1.68	2.4	12	6	1.5	0.21	6	Reseal	4	OK	5	OK	6	OK	7	Upg. AC
62	SD	47	440	A	3	22	6.0	1.68	2.7	20	9	0.1	0.13	9	SD Rehab	3	OK	3	OK	4	OK	5	OK
63	SD	48	440	A	3	22	6.0	1.68	2.7	20	9	0.1	0.07	9	SD Rehab	2	OK	3	OK	3	OK	3	OK
64	SD	48	430	A	3	31	10.8	1.68	2.7	8	6	1.5	0.07	6	Reseal	3	OK	4	OK	4	OK	4	OK
65	SD	48	430	A	3	32	27.9	1.30	2.3	14	8	0.5	0.12	8	SD Rehab	3	OK	3	OK	4	OK	4	OK
66	SD	49	360	A	3	40	100.0	1.30	2.3	2	4	2.4	0.06	4	OK	4	OK	5	OK	5	OK	5	OK
67	E	49	430	A	3	32	116.9	NA	NA		NA	NA	NA		Mnt. E		Mnt. E		Upg. SD	2	OK	2	OK
68	SD	50	430	A	3	32	14.0	1.30	2.3		8	0.5	0.12	8	SD Rehab	3	OK	3	OK	4	OK	4	OK
69	SD	51	360	A	3	40	14.5	1.30	2.3	2	4	2.4	0.03	4	OK	4	OK	4	OK	5	OK	5	OK
70	E	52	360	A	3	50	96.0	NA	NA		NA	NA	NA		Mnt. E		Mnt. E		Upg. G		Mnt. G		Mnt. G

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH PCU (YR)	RATIO HEAVY (YR)	AADT IN YEAR 10(PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill.)	Traffic Class
71	E	53	360	A	3	50	100.0	100	30	290	80	5.76%	-	166	NA	NA	NA	NA	NA	NA	NA	ERR	ERR
72	E	54	510	A	3	50	5.0	100	30	290	80	5.76%	-	166	NA	NA	NA	NA	NA	NA	NA	ERR	ERR
73	SD	54	510	A	3	50	3.0	100	30	290	80	5.76%	-	166	NA	NA	NA	NA	NA	NA	NA	ERR	ERR
74	AC	55	320	A	14	10	18.0	291	89	246	81	-0.88%	-0.49%	269	2	20	70	2	300	S3	8	0.6	T5
75	AC	56	320	A	14	10	8.5	3,835	509	8,491	1,095	4.27%	4.11%	5588	2	20	70	2	300	S3	8	4.5	T3
76	AC	56	340	A	14	21	7.7	3,835	509	8,491	1,095	4.27%	4.11%	5588	2	35	20	2	300	S3	8	4.5	T3
77	AC	57	320	A	14	10	30.0	292	89	246	81	-0.90%	-0.49%	269	2	20	70	2	300	S3	8	0.6	T5
78	AC	58	320	A	14	10	8.0	293	90	247	81	-0.89%	-0.55%	270	2	20	70	2	300	S3	8	0.6	T5
79	AC	59	320	A	14	10	14.0	3,784	503	8,378	1,081	4.27%	4.11%	5514	2	20	70	2	300	S3	8	4.4	T3
80	AC	60	320	A	14	10	19.0	3,791	503	8,394	1,083	4.27%	4.12%	5524	2	20	70	2	300	S3	8	4.5	T3
81	AC	61	350	A	23	1	25.2	150	40	420	80	5.57%	3.72%	244	1	30	20	2	150	S3	8	0.3	T5
82	G	61	350	A	23	1	88.8	150	40	420	80	5.57%	3.72%	244	NA	NA	NA	NA	NA	NA	NA	0.3	T5
83	SD	62	710	A	104	1	131.5	415	74	1,642	343	7.51%	8.41%	796	1	20	20	1	170	S3	8	0.9	T5
84	AC	63	440	A	104	10	15.0	11,678	2,099	22,124	3,752	3.42%	3.10%	15806	2	70	100	1	200	S1	3	17.2	T2
85	AC	64	110	A	104	21	22.5	10,279	2,085	18,858	3,297	3.25%	2.44%	13702	2	80	100	1	130	S3	8	16.3	T2
86	AC	65	110	A	104	21	7.5	10,279	2,085	18,858	3,297	3.25%	2.44%	13702	2	80	100	1	130	S3	8	16.3	T2
87	AC	65	210	A	104	31	4.8	10,279	2,085	18,858	3,297	3.25%	2.44%	13702	2	140	140	3	150	S5	20	16.3	T2
88	AC	66	110	A	104	22	17.0	10,991	1,957	21,422	3,617	3.57%	3.29%	15077	2	80	100	1	130	S3	8	16.3	T2
89	AC	67	110	A	104	22	8.1	11,524	2,072	21,280	3,573	3.28%	2.91%	15409	2	80	100	1	130	S3	8	16.8	T2
90	AC	68	210	A	104	31	10.0	10,403	2,104	19,172	3,352	3.27%	2.48%	13897	2		140	3	150	S5	20	16.5	T2
91	AC	69	210	A	104	31	14.0	5,695	1,150	9,652	1,653	2.82%	1.93%	7312	2		140	3	150	S5	20	8.7	T3
92	AC	70	210	A	104	31	22.0	5,736	1,158	10,913	1,861	3.44%	2.53%	7779	2		140	3	150	S5	20	9.1	T3
93	AC	71	240	A	104	32	4.3	6,786	1,375	8,500	1,531	1.19%	0.57%	7550	2		50	3	150	S5	20	9.4	T3
94	AC	71	740	A	104	41	26.0	6,786	1,375	8,500	1,531	1.19%	0.57%	7550	2		50	3	150	S5	20	9.4	T3
95	AC	72	740	A	104	41	32.0	5,384	1,310	11,473	2,277	4.06%	2.95%	7704	2		50	3	150	S5	20	10.6	T2
96	AC	73	740	A	104	41	5.0	6,173	1,478	14,491	2,861	4.59%	3.54%	9248	2		50	3	150	S5	20	12.5	T2
97	SD	74	740	A	104	41	45.3	9,628	1,956	18,377	2,914	3.46%	2.12%	13077	2		50	3	150	S5	20	14.9	T2
98	SD	74	740	A	104	42	7.4	9,628	1,956	18,377	2,914	3.46%	2.12%	13077	2		50	3	150	S5	20	14.9	T2
99	SD	75	740	A	104	41	13.5	3,882	900	6,321	910	2.60%	0.06%	4890	2		50	3	150	S5	20	5.9	T3
100	AC	76	740	A	104	41	27.5	6,150	1,424	13,431	2,543	4.20%	3.10%	8904	2		50	3	150	S5	20	11.7	T2
101	AC	77	740	A	104	41	7.0	5,383	1,292	11,650	2,278	4.15%	3.03%	7760	2		50	3	150	S5	20	10.5	T2
102	AC	78	740	A	104	43	5.2	9,884	1,997	23,184	3,536	4.59%	3.05%	14802	2		50	3	150	S5	20	16.3	T2
103	SD	79	770	A	104	51	43.0	3,275	772	6,550	1,238	3.72%	2.52%	4548	2		50	3	150	S2	6	6.1	T3
104	AC	80	770	A	104	51	24.4	3,940	836	5,800	1,041	2.06%	1.16%	4732	2		50	3	150	S2	6	6.0	T3
105	AC	80	770	A	104	52	7.1	1,659	394	4,047	833	4.81%	4.02%	2531	2		50	3	150	S5	20	3.5	T3
106	AC	81	770	A	104	51	16.0	3,024	715	3,450	632	0.70%	-0.65%	3219	2		50	3	150	S2	6	4.5	T3

(continued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave Age (yrs)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
71	E	53	360	A	3	50	100.0	NA	NA		NA	NA	NA		Mnt. E		Mnt. E		Upg. G		Mnt. G		Mnt. G
72	E	54	510	A	3	50	5.0	NA	NA		NA	NA	NA		Mnt. E		Mnt. E		Upg. G		Mnt. G		Mnt. G
73	SD	54	510	A	3	50	3.0	NA	NA		NA	NA	NA		Mnt. E		Mnt. E		Upg. G		Mnt. G		Mnt. G
74	AC	55	320	A	14	10	18.0	3.76	4.8	23	5	1.9	0.00	5	OK	5	OK	5	OK	5	OK	5	OK
75	AC	56	320	A	14	10	8.5	3.76	4.8	23	5	1.9	0.03	5	OK	5	OK	5	OK	5	OK	6	OK
76	AC	56	340	A	14	21	7.7	3.60	4.6	20	5	1.9	0.03	5	OK	5	OK	5	OK	5	OK	6	OK
77	AC	57	320	A	14	10	30.0	3.76	4.8	23	5	1.9	0.00	5	OK	5	OK	5	OK	5	OK	5	OK
78	AC	58	320	A	14	10	8.0	3.76	4.8	23	5	1.9	0.00	5	OK	5	OK	5	OK	5	OK	5	OK
79	AC	59	320	A	14	10	14.0	3.76	4.8	23	5	1.9	0.03	5	OK	5	OK	5	OK	5	OK	6	OK
80	AC	60	320	A	14	10	19.0	3.76	4.8	23	5	1.9	0.03	5	OK	5	OK	5	OK	5	OK	6	OK
81	AC	61	350	A	23	1	25.2	1.76	2.8	23	8	0.5	0.02	8	AC Rehab	2	OK	2	OK	2	OK	2	OK
82	G	61	350	A	23	1	88.8	NA	NA		NA	NA	NA		Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
83	SD	62	710	A	104	1	131.5	1.06	2.1	23	4	2.4	0.12	4	OK	5	OK	5	OK	6	OK	6	Reseal
84	AC	63	440	A	104	10	15.0	2.88	2.9	19	2	3.3	0.46	2	OK	5	OK	7	Ovrlay	5	OK	8	Ovrlay
85	AC	64	110	A	104	21	22.5	2.70	3.8	19	3	2.8	0.17	3	OK	4	OK	5	OK	6	OK	7	Ovrlay
86	AC	65	110	A	104	21	7.5	2.70	3.8	19	3	2.8	0.17	3	OK	4	OK	5	OK	6	OK	7	Ovrlay
87	AC	65	210	A	104	31	4.8	4.16	5.9	12	4	2.4	0.03	4	OK	4	OK	4	OK	4	OK	5	OK
88	AC	66	110	A	104	22	17.0	2.70	3.8	19	3	2.8	0.17	3	OK	4	OK	5	OK	6	OK	7	Ovrlay
89	AC	67	110	A	104	22	8.1	2.70	3.8	19	3	2.8	0.17	3	OK	4	OK	5	OK	6	OK	7	Ovrlay
90	AC	68	210	A	104	31	10.0	4.16	5.9	12	4	2.4	0.03	4	OK	4	OK	4	OK	4	OK	5	OK
91	AC	69	210	A	104	31	14.0	4.16	5.9	12	4	2.4	0.02	4	OK	4	OK	4	OK	4	OK	4	OK
92	AC	70	210	A	104	31	22.0	4.16	5.9	12	4	2.4	0.02	4	OK	4	OK	4	OK	4	OK	4	OK
93	AC	71	240	A	104	32	4.3	2.72	4.4	10	3	2.8	0.08	3	OK	3	OK	4	OK	4	OK	5	OK
94	AC	71	740	A	104	41	26.0	2.72	4.4	12	10	-0.4	0.08	10	AC Recon	2	OK	3	OK	3	OK	4	OK
95	AC	72	740	A	104	41	32.0	2.72	4.4	12	10	-0.4	0.09	10	AC Recon	2	OK	3	OK	3	OK	4	OK
96	AC	73	740	A	104	41	5.0	2.72	4.4	12	10	-0.4	0.10	10	AC Recon	3	OK	3	OK	4	OK	4	OK
97	SD	74	740	A	104	41	45.3	2.72	4.4	12	10	-0.4	0.12	10	AC Recon	3	OK	3	OK	4	OK	4	OK
98	SD	74	740	A	104	42	7.4	2.72	4.4	9	4	2.4	0.12	4	OK	5	OK	5	OK	6	OK	7	Reseal
99	SD	75	740	A	104	41	13.5	2.72	4.4	12	10	-0.4	0.05	10	SD Recon	2	OK	2	OK	3	OK	3	OK
100	AC	76	740	A	104	41	27.5	2.72	4.4	12	10	-0.4	0.09	10	AC Recon	2	OK	3	OK	3	OK	4	OK
101	AC	77	740	A	104	41	7.0	2.72	4.4	12	10	-0.4	0.08	10	AC Recon	2	OK	3	OK	3	OK	4	OK
102	AC	78	740	A	104	43	5.2	2.72	4.4	9	5	1.9	0.13	5	OK	6	OK	6	Ovrlay	4	OK	4	OK
103	SD	79	770	A	104	51	43.0	2.72	3.5	5	4	2.4	0.12	4	OK	5	OK	5	OK	6	OK	7	Ovrlay
104	AC	80	770	A	104	51	24.4	2.72	3.5	5	4	2.4	0.12	4	OK	5	OK	5	OK	6	OK	7	Ovrlay
105	AC	80	770	A	104	52	7.1	2.72	4.4	4	3	2.8	0.03	3	OK	3	OK	3	OK	3	OK	4	OK
106	AC	81	770	A	104	51	16.0	2.72	3.5	5	4	2.4	0.09	4	OK	5	OK	5	OK	5	OK	6	OK

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH PCU (YR)	RATIO HEAVY (YR)	AADT IN YEAR 10(PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill.)	Traffic Class
107	AC	82	770	A	104	51	16.8	1,659	394	4,047	833	4.81%	4.02%	2531	2		50	3	150	S2	6	3.5	T3
108	AC	83	770	A	104	51	37.6	3,648	859	6,209	924	2.84%	0.38%	4693	2		50	3	150	S2	6	5.8	T3
109	AC	84	930	A	104	61	34.1	1,644	390	4,340	862	5.24%	4.26%	2604	2	100	25	2	220	S5	20	3.5	T3
110	AC	85	910	A	104	71	30.0	744	197	1,276	305	2.88%	2.33%	961	2		50	3	150	S2	6	1.5	T4
111	AC	86	910	A	104	71	20.8	855	223	1,714	402	3.73%	3.15%	1189	2		50	3	150	S2	6	1.8	T4
112	AC	87	910	A	104	71	1.0	2,109	499	6,056	1,229	5.71%	4.86%	3476	2		50	3	150	S2	6	4.7	T3
113	AC	88	920	A	104	81	14.1	847	220	1,697	399	3.73%	3.18%	1177	2		50	3	150	S2	6	1.8	T4
114	AC	89	340	A	109	11	6.2	3,821	987	8,808	1,671	4.49%	2.81%	5675	2	50	20	1	400	S3	8	7.9	T3
115	AC	89	340	A	109	12	17.8	3,821	987	8,808	1,671	4.49%	2.81%	5675	2	50	20	1	300	S3	8	7.9	T3
116	SD	90	310	A	109	21	23.1	3,919	997	7,445	1,546	3.44%	2.34%	5311	1	25	25	1	150	S3	8	7.7	T3
117	SD	90	320	A	109	31	54.2	3,919	997	7,445	1,546	3.44%	2.34%	5311	1	25	25	1	150	S3	8	7.7	T3
118	AC	90	350	A	109	41	49.0	3,919	997	7,445	1,546	3.44%	2.34%	5311	2	25	25	2	125	S3	8	7.7	T3
119	SD	91	310	A	109	21	25.0	3,837	991	7,433	1,544	3.54%	2.36%	5248	1	25	25	1	150	S3	8	7.7	T3
120	AC	92	350	A	109	41	36.0	3,425	975	6,036	1,515	3.03%	2.35%	4479	2	25	25	2	125	S3	8	7.6	T3
121	AC	93	350	A	109	41	14.0	3,638	1,038	6,307	1,721	2.94%	2.70%	4721	2	25	25	2	125	S3	8	8.3	T3
122	AC	94	350	A	109	41	6.0	2,915	832	4,167	1,196	1.90%	1.93%	3453	2	25	25	2	125	S3	8	6.3	T3
123	AC	95	440	A	109	51	21.5	4,139	1,069	6,265	1,601	2.21%	2.15%	5037	2		50	3	125	S1	3	8.2	T3
124	SD	95	470	A	109	52	64.4	4,139	1,069	6,265	1,601	2.21%	2.15%	5037	1	25	25	2	125	S3	8	8.2	T3
125	AC	96	440	A	109	51	26.0	11,066	1,990	20,116	3,348	3.20%	2.78%	14687	2		50	3	125	S1	3	15.9	T2
126	SD	97	470	A	109	52	88.0	3,617	1,036	6,305	1,725	2.97%	2.72%	4706	1	25	25	2	125	S1	3	8.3	T3
127	SD	98	470	A	109	52	68.0	4,151	1,071	6,416	1,642	2.32%	2.27%	5102	1	25	25	2	125	S1	3	8.3	T3

(continued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave Age (yrs)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
106	AC	82	770	A	104	51	16.8	NA	ERR	5	4	2.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
107	AC	83	770	A	104	51	37.6	2.72	3.5	5	4	2.4	0.07	4	OK	4	OK	5	OK	5	OK	5	OK
108	AC	84	930	A	104	61	34.1	NA	0.8	23	3	2.8	11.79	15	Recon		OK	59	Recon		OK	59	Recon
109	AC	85	910	A	104	71	30.0	2.51	4.2	12	8	0.5	0.03	8	AC Rehab	2	OK	2	OK	3	OK	3	OK
110	AC	86	910	A	104	71	20.8	2.72	3.5	12	8	0.5	0.03	8	AC Rehab	2	OK	2	OK	2	OK	3	OK
111	AC	87	910	A	104	71	1.0	2.72	3.5	12	8	0.5	0.04	8	AC Rehab	2	OK	2	OK	3	OK	3	OK
112	AC	88	920	A	104	81	14.1	2.72	3.5	2	4	2.4	0.09	4	OK	5	OK	5	OK	6	OK	6	OK
113	AC	89	340	A	109	11	6.2	NA	0.8	41	3	2.8	3.69	7	Resurf		OK	18	Recon		OK	18	Recon
114	AC	89	340	A	109	12	17.8	2.88	3.9	41	3	2.8	0.10	3	OK	4	OK	4	OK	5	OK	5	OK
115	SD	90	310	A	109	21	23.1	NA	2.4	32	3	2.8	0.65	4	OK	7	Upg. AC	5	OK	9	AC Rehab	5	OK
116	SD	90	320	A	109	31	54.2	1.02	2.4	25	8	0.5	0.63	9	Upg. AC	5	OK	8	AC Rehab	5	OK	8	AC Recon
117	AC	90	350	A	109	41	49.0	NA	1.0	30	5	1.9	7.99	13	Recon		OK	40	Upg. AC	42	Recon		OK
118	SD	91	310	A	109	21	25.0	NA	1.0	32	3	2.8	0.63	4	OK	7	Upg. AC	5	OK	8	AC Rehab	5	OK
119	AC	92	350	A	109	41	36.0	NA	1.0	30	5	1.9	7.96	13	Recon		OK	40	Upg. AC	42	Recon		OK
120	AC	93	350	A	109	41	14.0	1.80	2.8	30	5	1.9	0.34	5	OK	7	OK	9	Upg. AC	4	OK	5	OK
121	AC	94	350	A	109	41	6.0	1.80	2.8	30	5	1.9	0.37	5	OK	7	OK	9	Upg. AC	4	OK	6	OK
122	AC	95	440	A	109	51	21.5	1.60	2.6	16	3	2.8	0.36	5	OK	7	Upg. AC	4	OK	6	Ovrlay	6	OK
123	SD	95	470	A	109	52	64.4	NA	0.1	30	5	1.9	******	240	Recon		Upg. AC	1176	OK	2350	Ovrlay	1177	Recon
124	AC	96	440	A	109	51	26.0	NA	1.0	16	3	2.8	5.63	5	OK	33	AC Recon	5	OK	7	Ovrlay	6	OK
125	SD	97	470	A	109	52	88.0	NA	1.9	1/43	3	2.8	0.54	4	OK	6	Upg. AC	5	OK	7	Ovrlay	6	OK
126	SD	98	470	A	109	52	68.0	1.50	1.9	1/43	3	2.8	0.54	4	OK	6	Upg. AC	5	OK	7	Ovrlay	6	OK
127	SD	98	470	A	109	52	68.0	1.50	1.9	1/43	3	2.8	0.54	4	OK	6	Upg. AC	5	OK	7	Ovrlay	6	OK

ENGINEERING ASSESSMENT ON PAVING CONDITIONS (CLASS B)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT 1994 TOTAL (PCU)	ADT 1994 HEAVY (VEH)	ADT 2013 TOTAL (PCU)	ADT 2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10 (PCU)	SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
1	SD	1	120	B	1	10	45.0	5,570	1,015	9,916	1,133	3.08%	0.58%	7320	1		20	3	175	S2	6	6.9	T3
2	SD	2	120	B	1	10	12.5	3,223	683	2,908	438	-0.54%	-2.31%	3070	1		20	3	175	S2	6	3.8	T3
3	SD	3	120	B	1	10	7.0	5,695	1,045	16,151	2,519	5.64%	4.74%	9331	1		20	3	175	S2	6	9.7	T3
4	SD	4	120	B	1	10	19.0	3,204	679	2,893	436	-0.54%	-2.30%	3053	1		20	3	175	S2	6	3.8	T3
5	SD	5	120	B	1	10	6.9	3,107	658	2,373	346	-1.41%	-3.33%	2735	1		20	3	175	S2	6	3.4	T3
6	SD	6	620	B	1	21	16.6	3,406	720	5,658	1,001	2.71%	1.75%	4332	1		20	3	150	S2	6	5.4	T3
7	SD	7	620	B	1		5.5	3,396	720	5,483	1,001	2.55%	1.75%	4261	1		20	3	150	S2	6	5.4	T3
8	SD	8	620	B	1	22	6.9	708	77	3,361	447	8.54%	9.70%	1481	1		20	3	150	S2	6	1.0	T4
9	AC	8	620	B	1	23	13.1	708	77	3,361	447	8.54%	9.70%	1481	2	35	20	2	130	S3	8	1.0	T4
10	AC	9	620	B	1	23	4.3	683	74	1,521	238	4.30%	6.34%	998	2	35	20	2	130	S3	8	0.8	T5
11	AC	10	620	B	1	23	8.8	2,857	371	5,419	881	3.43%	4.66%	3869	2	35	20	2	130	S3	8	3.4	T3
12	AC	11	940	B	1	31	3.0	3,984	430	7,193	1,008	3.16%	4.59%	5271	2	35	20	2	130	S3	8	3.9	T3
13	AC	12	940	B	1	31	6.5	998	181	3,601	640	6.99%	6.87%	1833	2	35	20	2	130	S3	8	2.0	T4
14	SD	13	630	B	1	41	29.0	1,142	217	3,645	647	6.30%	5.92%	1979	1		25	1	130	S3	8	2.2	T4
15	AC	13	940	B	1	31	3.0	1,142	217	3,645	647	6.30%	5.92%	1979	2	35	20	2	130	S3	8	2.2	T4
16	SD	14	630	B	1	41	4.0	1,155	220	3,651	648	6.24%	5.85%	1992	1		25	1	130	S3	8	2.2	T4
17	SD	15	630	B	1	41	2.0	1,149	219	3,631	645	6.24%	5.85%	1982	1		25	1	130	S3	8	2.2	T4
18	SD	15	630	B	1	41	14.5	1,149	219	3,631	654	6.24%	5.93%	1982	1		25	1	130	S3	8	2.2	T4
19	SD	15	920	B	1	51	2.0	1,149	219	3,631	654	6.24%	5.93%	1982	1		25	1	130	S3	8	2.2	T4
20	SD	16	920	B	1	51	20.0	1,164	222	3,683	654	6.25%	5.85%	2009	1		25	1	130	S3	8	2.2	T4
21	SD	17	920	B	1	51	5.0	1,270	238	4,173	721	6.46%	6.01%	2231	1		25	1	130	S3	8	2.4	T4
22	SD	18	740	B	1	61	2.9	5,397	989	12,954	2,055	4.72%	3.92%	8171	1		20	3	175	S2	6	8.6	T3
23	SD	19	770	B	2	11	35.2	2,309	448	6,400	1,240	5.51%	5.50%	3742	1	25	25	2	130	S3	8	4.4	T3
24	SD	19	930	B	2	21	12.0	2,309	448	6,400	1,240	5.51%	5.50%	3742	1	25	25	1	400	S3	8	4.4	T3
25	SD	20	760	B	2	31	18.6	2,339	455	7,383	1,019	6.24%	4.33%	4032	1	25	25	2	150	S3	8	4.1	T3
26	AC	21	210	B	3	10	20.0	5,839	1,177	16,215	2,849	5.52%	4.76%	9472	2		100	3	150	S3	8	10.9	T2
27	SD	22	740	B	3	20	29.4	1,986	381	7,428	1,302	7.19%	6.68%	3710	1	20	25	1	300	S3	8	4.1	T3
28	G	22	750	B	3	30	10.3	1,986	381	7,428	1,302	7.19%	6.68%	3710	NA	NA	NA	NA	NA	NA	NA	4.1	T3
29	SD	22	750	B	3	30	48.2	1,986	381	7,428	1,302	7.19%	6.68%	3710	1		25	2	250	S3	8	4.1	T3
30	SD	23	720	B	3	30	16.0	1,176	306	4,762	965	7.64%	6.23%	2281	1		25	2	250	S3	8	3.2	T3
31	SD	23	750	B	3	30	23.4	1,176	306	4,762	965	7.64%	6.23%	2281	1		25	2	250	S3	8	3.2	T3
32	SD	24	750	B	3	30	42.5	1,223	319	5,431	1,113	8.16%	6.80%	2478	1		25	2	250	S3	8	3.5	T3

ENGINEERING ASSESSMENT ON PAVING CONDITIONS (CLASS B)

(cntinued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
1	SD	1	120	B	1	10	45.0	2.32	3.1	11	8	0.5	0.22	8	Upg. AC	3	OK	4	OK	5	OK	6	Ovrlay
2	SD	2	120	B	1	10	12.5	2.32	3.1	11	8	0.5	0.12	8	Upg. AC	3	OK	3	OK	4	OK	4	OK
3	SD	3	120	B	1	10	7.0	2.32	3.1	11	8	0.5	0.31	8	Upg. AC	4	OK	5	OK	7	Ovrlay	5	OK
4	SD	4	120	B	1	10	19.0	2.32	3.1	11	8	0.5	0.12	8	Upg. AC	3	OK	3	OK	4	OK	4	OK
5	SD	5	120	B	1	10	6.9	2.32	3.1	11	8	0.5	0.11	8	Upg. AC	3	OK	3	OK	4	OK	4	OK
6	SD	6	620	B	1	21	16.6	2.00	2.8	11	8	0.5	0.26	8	Upg. AC	3	OK	5	OK	6	OK	7	Ovrlay
7	SD	7	620	B	1		5.5	2.00	2.8	11	8	0.5	0.26	8	Upg. AC	3	OK	5	OK	6	OK	7	Ovrlay
8	SD	8	620	B	1	22	6.9	2.00	2.8	11	6	1.5	0.05	6	Reseal	3	OK	4	OK	4	OK	4	OK
9	AC	8	620	B	1	23	13.1	1.97	3.0	2 / 27	5	1.9	0.04	5	OK	5	OK	5	OK	6	OK	6	OK
10	AC	9	620	B	1	23	4.3	1.97	3.0	2 / 27	5	1.9	0.03	5	OK	5	OK	5	OK	5	OK	6	OK
11	AC	10	620	B	1	23	8.8	1.97	3.0	2 / 27	5	1.9	0.12	5	OK	6	OK	6	Ovrlay	4	OK	4	OK
12	AC	11	940	B	1	31	3.0	1.97	3.0	2 / 27	4	2.4	0.14	4	OK	5	OK	6	OK	6	Ovrlay	4	OK
13	AC	12	940	B	1	31	6.5	1.97	3.0	2 / 27	4	2.4	0.07	4	OK	4	OK	5	OK	5	OK	5	OK
14	SD	13	630	B	1	41	29.0	0.72	2.8	2 / 27	8	0.5	0.10	8	SD Rehab	3	OK	3	OK	4	OK	4	OK
15	AC	13	940	B	1	31	3.0	1.97	3.0	2 / 27	4	2.4	0.08	4	OK	4	OK	5	OK	5	OK	6	OK
16	SD	14	630	B	1	41	4.0	0.72	2.8	2 / 27	8	0.5	0.10	8	SD Rehab	3	OK	3	OK	4	OK	4	OK
17	SD	15	630	B	1	41	2.0	0.72	2.8	2 / 27	8	0.5	0.10	8	SD Rehab	3	OK	3	OK	4	OK	4	OK
18	SD	15	630	B	1	41	14.5	0.72	2.8	2 / 27	8	0.5	0.10	8	SD Rehab	3	OK	3	OK	4	OK	4	OK
19	SD	15	920	B	1	51	2.0	0.72	2.8	22	8	0.5	0.10	8	SD Rehab	3	OK	3	OK	4	OK	4	OK
20	SD	16	920	B	1	51	20.0	0.72	2.8	22	8	0.5	0.11	8	SD Rehab	3	OK	3	OK	4	OK	4	OK
21	SD	17	920	B	1	51	5.0	0.72	2.8	22	8	0.5	0.11	8	Upg. AC	3	OK	3	OK	4	OK	4	OK
22	SD	18	740	B	1	61	2.9	2.32	3.1	NA	8	0.5	0.28	8	Upg. AC	3	OK	5	OK	6	Ovrlay	4	OK
23	SD	19	770	B	2	11	35.2	1.55	2.6	31	9	0.1	0.27	9	Upg. AC	3	OK	5	OK	6	Ovrlay	4	OK
24	SD	19	930	B	2	21	12.0	2.22	3.3	31	9	0.1	0.12	9	Upg. AC	3	OK	3	OK	4	OK	4	OK
25	SD	20	760	B	2	31	18.6	1.74	2.8	31	8	0.5	0.20	8	Upg. AC	3	OK	4	OK	5	OK	6	OK
26	AC	21	210	B	3	10	20.0	2.72	3.8	21	3	2.8	0.17	3	OK	4	OK	5	OK	6	OK	6	Ovrlay
27	SD	22	740	B	3	20	29.4	1.70	2.7	21	6	1.5	0.21	6	Upg. AC	3	OK	4	OK	5	OK	6	Ovrlay
28	G	22	750	B	3	30	10.3	NA	NA	NA	NA	NA	NA		Upg. AC	2	OK	2	OK	2	OK	2	Ovrlay
29	SD	22	750	B	3	30	48.2	2.50	3.5	21	9	0.1	0.08	9	Upg. AC	2	OK	3	OK	3	OK	4	OK
30	SD	23	720	B	3	30	16.0	2.50	3.5	21	9	0.1	0.06	9	SD Rehab	2	OK	3	OK	3	OK	3	OK
31	SD	23	750	B	3	30	23.4	2.50	3.5	21	9	0.1	0.06	9	SD Rehab	2	OK	3	OK	3	OK	3	OK
32	SD	24	750	B	3	30	42.5	2.50	3.5	21	9	0.1	0.07	9	SD Rehab	2	OK	3	OK	3	OK	3	OK

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT 1994 TOTAL (PCU)	ADT 1994 HEAVY (VEH)	ADT 2013 TOTAL (PCU)	ADT 2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10(PCU)	SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
33	SD	25	750	B	3	30	15.5	1,218	318	5,409	1,108	8.16%	6.79%	2468	1		25	2	250	S3	8	3.4	T3
34	SD	26	720	B	3	40	35.0	1,158	301	3,628	763	6.19%	5.02%	1989	1		25	1	300	S3	8	2.8	T4
35	SD	26	720	B	3	40	16.0	1,158	301	3,628	763	6.19%	5.02%	1989	1		25	1	300	S3	8	2.8	T4
36	SD	27	720	B	3	40	5.0	2,132	450	3,600	777	2.80%	2.92%	2732	1		25	1	300	S3	8	3.6	T3
37	SD	28	720	B	3	40	6.0	1,182	308	4,786	970	7.64%	6.22%	2293	1		25	1	300	S3	8	3.2	T3
38	AC	29	610	B	3	50	30.2	2,113	443	2,493	541	0.87%	1.06%	2285	1	25	20	1	130	S2	6	3.1	T3
39	AC	30	650	B	3	60	18.0	2,094	439	2,471	536	0.88%	1.06%	2265	1	25	20	1	170	S2	6	3.1	T3
40	SD	31	740	B	4	10	6.0	66	16	624	93	12.55%	9.71%	191	1	25	20	1	130	S3	8	0.2	T5
41	SD	31	810	B	4	20	88.4	66	16	624	93	12.55%	9.71%	191	1		20	1	250	S3	8	0.2	T5
42	AC	32	740	B	4	10	18.0	443	93	4,469	786	12.94%	11.89%	1324	1	25	20	1	130	S3	8	1.5	T4
43	G	33	810	B	4	20	60.6	48	14	430	113	12.23%	11.62%	136	NA	NA	NA	NA	NA			0.2	T5
44	G	34	810	B	4	20	57.4	33	10	432	114	14.50%	13.66%	112	NA	NA	NA	NA	NA			0.2	T5
45	E	34	820	B	4	30	6.3	33	10	432	114	14.50%	13.66%	112	NA	NA	NA	NA	NA			0.2	T5
46	E	35	820	B	4	30	12.0	48	14	431	113	12.25%	11.62%	136	NA	NA	NA	NA	NA			0.2	T5
47	G	35	860	B	4	41	11.0	48	14	431	113	12.25%	11.62%	136	NA	NA	NA	NA	NA			0.2	T5
48	G	36	860	B	4	41	32.8	48	14	434	114	12.29%	11.67%	136	NA	NA	NA	NA	NA			0.2	T5
49	SD	37	240	B	5	30	12.5	1,120	128	4,444	632	7.52%	8.77%	2152	2		30	1	250	S2	6	1.6	T4
50	SD	37	250	B	5	10	52.0	1,120	128	4,444	632	7.52%	8.77%	2152	1	25	20	1	230	S2	6	1.6	T4
51	SD	37	730	B	5	20	24.6	1,120	128	4,444	632	7.52%	8.77%	2152	1	25	20	1	230	S2	6	1.6	T4
52	SD	38	250	B	5	10	12.3	214	32	1,513	250	10.84%	11.43%	540	1	25	20	1	230	S2	6	0.5	T5
53	AC	39	730	B	5	22	13.7	630	147	2,490	515	7.50%	6.82%	1208	2		30	1	250	S2	6	1.6	T4
54	AC	39	740	B	5	40	51.3	630	147	2,490	515	7.50%	6.82%	1208	2		30	1	250	S3	8	1.6	T4
55	AC	40	240	B	5	30	15.3	1,497	223	5,623	924	7.21%	7.77%	2802	2		30	1	250	S2	6	2.6	T4
56	AC	41	220	B	6	10	12.0	1,320	220	4,644	730	6.84%	6.52%	2395	2	25	35	1	130	S2	6	2.3	T4
57	AC	42	220	B	6	10	30.1	686	107	1,866	270	5.41%	4.99%	1102	2	25	35	1	130	S2	6	1.0	T4
58	AC	43	410	B	6	20	20.6	262	42	4,030	452	15.47%	13.32%	956	2	25	35	1	130	S2	6	0.8	T5
59	AC	44	410	B	6	20	15.0	390	60	4,065	456	13.13%	11.27%	1184	2	25	35	1	130	S2	6	0.9	T5
60	AC	44	460	B	6	31	8.3	390	60	4,065	456	13.13%	11.27%	1184	2	25	50	1	130	S2	6	0.9	T5
61	SD	45	460	B	6	31	55.6	357	58	3,494	393	12.76%	10.59%	1052	2	25	50	1	130	S2	6	0.8	T5
62	SD	46	460	B	6	31	25.0	706	105	4,027	617	9.60%	9.77%	1611	2	25	50	1	130	S2	6	1.4	T4
63	E	47	430	B	7	20	115	152	59	695	196	8.33%	6.52%	312								0.6	T5
64	G	47	470	B	7	10	24.8	152	59	695	196	8.33%	6.52%	312								0.6	T5
65	SD	47	470	B	7	10	3.0	152	59	695	196	8.33%	6.52%	312	1		20	2	130	S3	8	0.6	T5

(cntinued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
33	SD	25	750	B	3	30	15.5	2.50	3.5	21	9	0.1	0.07	9	SD Rehab	2	OK	3	OK	3	OK	3	OK
34	SD	26	720	B	3	40	35.0	1.54	2.6	3	3	2.8	0.18	3	OK	4	OK	5	OK	6	OK	7	Reseal
35	SD	26	720	B	3	40	16.0	1.54	2.6	3	3	2.8	0.18	3	OK	4	OK	5	OK	6	OK	7	Reseal
36	SD	27	720	B	3	40	5.0	1.54	2.6	3	3	2.8	0.23	3	OK	4	OK	6	OK	7	Reseal	4	OK
37	SD	28	720	B	3	40	6.0	1.54	2.6	3	3	2.8	0.20	3	OK	4	OK	5	OK	6	Reseal	4	OK
38	AC	29	610	B	3	50	30.2	0.90	2.5	6 / 19	5	1.9	0.22	5	OK	6	OK	7	Ovrlay	4	OK	5	OK
39	AC	30	650	B	3	60	18.0	1.10	2.5	6 / 19	5	1.9	0.22	5	OK	6	OK	7	Ovrlay	4	OK	5	OK
40	SD	31	740	B	4	10	6.0	0.90	2.0	NA	4	2.4	0.04	4	OK	4	OK	4	OK	5	OK	5	OK
41	SD	31	810	B	4	20	88.4	1.28	2.3	12	6	1.5	0.02	6	Reseal	3	OK	3	OK	3	OK	3	OK
42	AC	32	740	B	4	10	18.0	0.90	2.0	NA	4	2.4	0.25	4	OK	6	OK	7	Reseal	4	OK	6	OK
43	G	33	810	B	4	20	60.6	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. G		Mnt. G		Mnt. G		Mnt. G
44	G	34	810	B	4	20	57.4	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. G		Mnt. G		Mnt. G		Mnt. G
45	E	34	820	B	4	30	6.3	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Upg. G		Mnt. G		Mnt. G
46	E	35	820	B	4	30	12.0	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Upg. G		Mnt. G		Mnt. G
47	G	35	860	B	4	41	11.0	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. G		Mnt. G		Mnt. G		Mnt. G
48	G	36	860	B	4	41	32.8	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. G		Mnt. G		Mnt. G		Mnt. G
49	SD	37	240	B	5	30	12.5	1.44	2.2	16	4	2.4	0.17	4	OK	5	OK	6	OK	7	Reseal	4	OK
50	SD	37	250	B	5	10	52.0	1.38	2.2	16	8	0.5	0.19	8	SD Rehab	3	OK	4	OK	5	OK	6	OK
51	SD	37	730	B	5	20	24.6	1.38	2.2	16	6	1.5	0.19	6	Reseal	4	OK	5	OK	6	OK	7	Reseal
52	SD	38	250	B	5	10	12.3	1.38	2.2	16	8	0.5	0.06	8	SD Rehab	2	OK	3	OK	3	OK	3	OK
53	AC	39	730	B	5	22	13.7	1.44	2.2	5	4	2.4	0.17	4	OK	5	OK	6	OK	7	Ovrlay	4	OK
54	AC	39	740	B	5	40	51.3	1.44	2.5	28	4	2.4	0.12	4	OK	5	OK	5	OK	6	OK	6	Ovrlay
55	AC	40	240	B	5	30	15.3	1.44	2.2	16	4	2.4	0.28	4	OK	6	OK	7	Ovrlay	4	OK	6	OK
56	AC	41	220	B	6	10	12.0	1.30	2.1	23	7	1.0	0.31	7	Ovrlay	5	OK	6	Ovrlay	5	OK	6	Ovrlay
57	AC	42	220	B	6	10	30.1	1.30	2.1	23	7	1.0	0.13	7	Ovrlay	4	OK	4	OK	5	OK	6	OK
58	AC	43	410	B	6	20	20.6	1.30	2.1	23	5	1.9	0.10	5	OK	6	OK	6	Ovrlay	4	OK	4	OK
59	AC	44	410	B	6	20	15.0	1.30	2.1	23	5	1.9	0.12	5	OK	6	OK	6	Ovrlay	4	OK	4	OK
60	AC	44	460	B	6	31	8.3	1.42	2.2	24	4	2.4	0.10	4	OK	5	OK	5	OK	6	OK	6	Ovrlay
61	SD	45	460	B	6	31	55.6	1.42	2.2	24	4	2.4	0.09	4	OK	5	OK	5	OK	5	OK	6	OK
62	SD	46	460	B	6	31	25.0	1.42	2.2	24	4	2.4	0.16	4	OK	5	ERR	ERR	ERR	ERR	Reseal	4	ERR
63	E	47	430	B	7	20	114.8	NA	NA	NA	NA	NA	NA		Upg. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
64	G	47	470	B	7	10	24.8	NA	NA	NA	NA	NA	NA		Mnt. G		Mnt. G		Mnt. G		Upg. SD	2	OK
65	SD	47	470	B	7	10	3.0	1.33	2.4	NA	13	-1.7	0.05		Mnt. G		Mnt. G		Mnt. G		Upg. SD	2	OK

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT 1994 TOTAL (PCU)	ADT 1994 HEAVY (VEH)	ADT 2013 TOTAL (PCU)	ADT 2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10 (PCU)	SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
66	SD	48	430	B	7	20	3.0	428	77	3,862	724	12.27%	12.52%	1213	1		25	1	130	S3	8	1.3	T4
67	E	49	430	B	7	20	13.4	50	14	2,581	528	23.07%	21.05%	324								0.5	T5
68	E	50	430	B	7	20	26.0	50	14	2,584	529	23.08%	21.06%	324								0.5	T5
69	SD	50	430	B	7	20	6.5	50	14	2,584	529	23.08%	21.06%	324	1		25	1	275	S3	8	0.5	T5
69	SD	51	440	B	7	30	35.5	127	33	1,253	235	12.80%	10.88%	376	1		25	1	275	S3	8	0.5	T5
70	SD	51	410	B	7	40	45.5	127	33	1,253	235	12.80%	10.88%	376	1		25	1	250	S3	8	0.5	T5
71	SD	52	310	B	8	20	30.0	7,599	612	12,705	1,201	2.74%	3.61%	9694	1		25	2	130	S5	20	5.2	T3
72	SD	52	340	B	8	11	15.0	7,599	612	12,705	1,201	2.74%	3.61%	9694	2	35	25	1	200	S5	20	5.2	T3
73	SD	53	310	B	8	20	57.5	7,648	613	14,068	1,330	3.26%	4.16%	10208	1		25	2	130	S5	20	5.4	T3
74	SD	54	310	B	8	20	16.0	7,675	616	14,117	1,335	3.26%	4.15%	10243	1		25	2	130	S5	20	5.5	T3
75	G	55	310	B	8	20	52.1	190	67	1,245	306	10.40%	8.32%	463								0.8	T5
76	E	55	360	B	8	30	47.9	190	67	1,245	306	10.40%	8.32%	463								0.8	T5
77	E	56	360	B	8	30	58.0	51	18	208	71	7.68%	7.49%	99								0.2	T5
78	G	56	360	B	8	30	43.4	51	18	208	71	7.68%	7.49%	99								0.2	T5
79	G	56	360	B	8	30	24.5	51	18	208	71	7.68%	7.49%	99								0.2	T5
80	E	57	360	B	8	30	92.8	118	41	791	191	10.53%	8.44%	291								0.5	T5
81	G	58	420	B	9	21	118.0	20	8	98	39	8.72%	8.69%	42								0.1	T5
82	E	58	460	B	9	11	66.0	20	8	98	39	8.72%	8.69%	42								0.1	T5
83	E	59	420	B	9	21	9.0	20	8	98	39	8.72%	8.69%	42								0.1	T5
84	E	59	510	B	9	31	15.0	20	8	98	39	8.72%	8.69%	42								0.1	T5
85	G	59	510	B	9	31	37.1	20	8	98	39	8.72%	8.69%	42								0.1	T5
86	G	59	550	B	9	41	49.0	20	8	98	39	8.72%	8.69%	42								0.1	T5
87	G	60	520	B	9	41	217.0	14	6	60	24	7.96%	7.57%	28								0.1	T5
88	G	60	520	B	9	51	273	14	6	60	7	7.96%	0.62%	28								0.0	T5
89	G	61	530	B	9	41	69.0	20	8	98	39	8.72%	8.69%	42								0.1	T5
90	AC	62	110	B	10	1	8.3	500	50	1,800	150	6.97%	5.95%	917	2	50	100	1	200	S2	6	0.5	T5

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NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2013	Status 2013
66	SD	48	430	B	7	20	3.0	0.72	1.8	NA	10	-0.4	0.30	10	SD Recon	3	OK	5	OK	6	Reseal	4	OK
67	E	49	430	B	7	20	13.4	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Upg. SD	2	OK	2	OK
68	E	50	430	B	7	20	26.0	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Upg. SD	2	OK	2	OK
69	SD	50	430	B	7	20	6.5	1.42	2.5	NA	4	2.4	0.04	4	OK	4	OK	4	OK	5	OK	5	OK
69	SD	51	440	B	7	30	35.5	1.42	2.5	NA	4	2.4	0.04	4	OK	4	OK	4	OK	5	OK	5	OK
70	SD	51	410	B	7	40	45.5	1.30	2.3	NA	7	1.0	0.04	7	Reseal	3	OK	3	OK	4	OK	4	OK
71	SD	52	310	B	8	20	30.0	1.35	3.0	1 / 25	6	1.5	0.18	6	Upg. AC	3	OK	4	OK	5	OK	6	OK
72	SD	52	340	B	8	11	15.0	1.72	3.4	25	4	2.4	0.12	4	OK	5	OK	5	OK	6	OK	6	Upg. AC
73	SD	53	310	B	8	20	57.5	1.35	3.0	1 / 25	6	1.5	0.19	6	Upg. AC	3	OK	4	OK	5	OK	6	OK
74	SD	54	310	B	8	20	16.0	1.35	3.0	1 / 25	6	1.5	0.19	6	Upg. AC	3	OK	4	OK	5	OK	6	OK
75	G	55	310	B	8	20	52.1	NA	NA	NA	NA	NA	NA		Mnt. G		Mnt. G		Upg. SD	2	OK	2	OK
76	E	55	360	B	8	30	47.9	NA	NA	NA	NA	NA	NA		Mnt. G		Mnt. G		Upg. SD	2	OK	2	OK
77	E	56	360	B	8	30	58.0	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Upg. G
78	G	56	360	B	8	30	43.4	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Upg. G
79	G	56	360	B	8	30	24.5	NA	NA	NA	NA	NA	NA		Mnt. G		Mnt. G		Mnt. G		Upg. SD	2	OK
80	E	57	360	B	8	30	92.8	NA	NA	NA	NA	NA	NA		Mnt. G		Mnt. G		Mnt. G		Upg. SD	2	OK
81	G	58	420	B	9	21	118.0	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
82	E	58	460	B	9	11	66.0	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
83	E	59	420	B	9	21	9.0	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
84	E	59	510	B	9	31	15.0	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
85	G	59	510	B	9	31	37.1	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
86	G	59	550	B	9	41	49.0	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
87	G	60	520	B	9	41	217.0	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
88	G	60	520	B	9	51	272.8	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
89	G	61	530	B	9	41	69.0	NA	NA	NA	NA	NA	NA		Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
90	AC	62	110	B	10	1	8.3	2.56	3.3	18	3	2.8	0.01	3	OK	3	OK	3	OK	3	OK	3	OK

ENGINEERING ASSESSMENT ON PAVING CONDITIONS (CLASS C, GROUPE-I)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10(PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
1	G	1	750	C	13	10	21.0	44	12	659	145	15.31%	14.01%	159								0.2	T5
2	E	1	750	C	13	10	29.0	44	12	659	145	15.31%	14.01%	159								0.2	T5
3	G	1	750	C	13	10	44.0	44	12	659	145	15.31%	14.01%	159								0.2	T5
4	G	2	750	C	13	20	24.1	44	12	658	145	15.30%	14.01%	158								0.2	T5
5	G	2	750	C	13	10	21.0	44	12	658	145	15.30%	14.01%	158								0.2	T5
6	G	3	750	C	14	20	14.0	50	4	150	20	5.95%	8.84%	84								0.1	T5
7	E	3	750	C	14	10	14.7	50	4	150	20	5.95%	8.84%	84								0.1	T5
8	G	4	750	C	14	20	57.8	50	4	150	20	5.95%	8.84%	84								0.1	T5
9	G	5	720	C	15	1	28.8	50	5	220	30	8.11%	9.89%	101								0.1	T5
10	G	6	610	C	16	1	28.8	50	5	191	30	7.31%	9.89%	94								0.1	T5
11	SD	7	610	C	17	10	24.0	70	7	270	40	7.36%	9.61%	133	1		25	2	150	S3	8	0.1	T5
12	SD	8	610	C	17	10	18.0	70	7	270	40	7.36%	9.61%	133	1		25	2	150	S3	8	0.1	T5
13	SD	9	750	C	17	20	11.1	70	7	270	40	7.36%	9.61%	133	1		25	2	125	S3	8	0.1	T5
14	E	10	750	C	17	20	31.1	70	7	270	40	7.36%	9.61%	133								0.1	T5
15	G	11	640	C	18	1	29.7	140	20	400	70	5.68%	6.82%	230								0.2	T5
16	SD	12	620	C	19	10	25.3	620	124	1,031	179	2.71%	1.95%	789	1		25	1	150	S2	6	0.9	T5
17	SD	12	640	C	19	20	20.6	620	124	1,031	179	2.71%	1.95%	789	1		25	1	150	S2	6	0.9	T5
18	G	13	640	C	19	20	27.5	1,209	216	3,249	579	5.34%	5.33%	1931								2.1	T4
19	G	14	610	C	20	10	14.2	1,200	250	3,200	650	5.30%	5.16%	1910								2.4	T4
20	AC	15	640	C	20	20	19.6	1,200	250	3,200	650	5.30%	5.16%	1910	2	35	20	2	305	S2	6	2.4	T4
21	AC	15	660	C	20	30	16.5	1,200	250	3,200	650	5.30%	5.16%	1910	1	25	20	2	305	S2	6	2.4	T4
22	G	16	650	C	21	10	46.2	42	4	3,569	415	26.34%	27.67%	344								0.2	T5
23	AC	17	720	C	21	20	4.0	36	5	3,985	528	28.11%	27.79%	335	2		50	1	150	S2	6	0.3	T5
24	G	17	650	C	21	10	16.5	36	5	3,985	528	28.11%	27.79%	335								0.3	T5
25	G	18	650	C	22	1	22.5	26	8	1,115	237	21.87%	19.52%	154								0.2	T5
26	G	19	650	C	22	1	16.0	66	34	1,936	392	19.46%	13.73%	327								0.6	T5
27	SD	20	720	C	23	1	15.3	1,031	159	313	30	-6.08%	-8.40%	586	2	100	50	1	150	S2	6	0.6	T5
28	SD	21	720	C	23	1	12.5	1,041	164	1,467	237	1.82%	1.96%	1225								1.2	T4
29	SD	22	720	C	23	1	17.5	1,069	166	4,802	637	8.23%	7.33%	2178								1.9	T4
30	SD	23	720	C	24	1	42.3	24	7	1,153	206	22.60%	19.48%	150	1		25	1	125	S2	6	0.2	T5
31	G	24	720	C	25	1	26.0	37	11	90	31	4.79%	5.60%	56								0.1	T5
32	SD	24	720	C	25	1	10.0	37	11	90	31	4.79%	5.60%	56	1		25	1	225	S2	6	0.1	T5

ENGINEERING ASSESSMENT ON PAVING CONDITIONS (CLASS C, GROUPE-I)

(continued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
1	G	1	750	C	13	10	21.0								Upg. SD		OK		OK		OK		OK
2	E	1	750	C	13	10	29.0								Mnt. E		Mnt. E		Upg. G		Mnt. G		Upg. SD
3	G	1	750	C	13	10	44.0								Upg. SD		OK		OK		OK		OK
4	G	2	750	C	13	20	24.1								Upg. SD		OK		OK		OK		OK
5	G	2	750	C	13	10	21.0								Upg. SD		OK		OK		OK		OK
6	G	3	750	C	14	20	14.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
7	E	3	750	C	14	10	14.7								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
8	G	4	750	C	14	20	57.8								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
9	G	5	720	C	15	1	28.8								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
10	G	6	610	C	16	1	28.8								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
11	SD	7	610	C	17	10	24.0	1.54	2.6	13	8	0.5	0.29	8	SD Rehab	3	OK	5	OK	6	Reseal	4	OK
12	SD	8	610	C	17	10	18.0	1.54	2.6	13	8	0.5	0.29	8	SD Rehab	3	OK	5	OK	6	Reseal	4	OK
13	SD	9	750	C	17	20	11.1	1.30	2.3	13	8	0.5	0.29	8	SD Rehab	3	OK	5	OK	6	Reseal	4	OK
14	E	10	750	C	17	20	31.1								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Upg. G
15	G	11	640	C	18	1	29.7								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
16	SD	12	620	C	19	10	25.3	0.82	1.6	5	6	1.5	0.29	6	Reseal	4	OK	6	OK	7	Reseal	4	OK
17	SD	12	640	C	19	20	20.6	0.82	1.6	5	6	1.5	0.29	6	Reseal	4	OK	6	OK	7	Reseal	4	OK
18	G	13	640	C	19	20	27.5						0.09		Upg. SD	2	OK	3	Upg. AC	2	OK	3	OK
19	G	14	610	C	20	10	14.2						0.09		Upg. SD	2	OK	3	Upg. AC	2	OK	3	OK
20	AC	15	640	C	20	20	19.6	3.29	4.1	10	6	1.5	0.09	6	Ovrlay	3	OK	4	OK	4	OK	5	OK
21	AC	15	660	C	20	30	16.5	3.21	4.0	10	6	1.5	0.09	6	Reseal	3	OK	4	OK	4	OK	5	OK
22	G	16	650	C	21	10	46.2						0.29		Upg. AC	3	OK	5	OK	6	Reseal	4	OK
23	AC	17	720	C	21	20	4.0	1.64	2.4	4	8	0.5	0.29	8	AC Rehab	3	OK	5	OK	6	Ovrlay	4	OK
24	G	17	650	C	21	10	16.5						0.29		Upg. SD	3	OK	5	OK	6	Reseal	4	OK
25	G	18	650	C	22	1	22.5						0.29		Upg. SD	3	OK	5	OK	6	Reseal	4	OK
26	G	19	650	C	22	1	16.0						0.29		Upg. SD	3	OK	5	OK	6	Reseal	4	OK
27	SD	20	720	C	23	1	15.3	2.44	3.2	21	2	3.3	0.29	2	OK	4	OK	5	OK	7	Reseal	4	OK
28	SD	21	720	C	23	1	12.5						0.09		Upg. SD	2	OK	3	OK	3	OK	4	OK
29	SD	22	720	C	23	1	17.5						0.09		Upg. SD	2	OK	3	OK	3	OK	4	OK
30	SD	23	720	C	24	1	42.3	0.70	1.5	NA	2	3.3	0.08	2	OK	2	OK	3	OK	3	OK	4	OK
31	G	24	720	C	25	1	26.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
32	SD	24	720	C	25	1	10.0	1.18	2.0	NA	8	0.5	0.02	8	Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10(PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
33	G	25	640	C	26	1	21.0	589	92	2,212	398	7.21%	8.01%	1102								1.1	T4
34	SD	26	520	C	27	10	29.5	540	70	1,803	202	6.55%	5.74%	956	1		20	2	130	S2	6	0.7	T5
35	SD	26	530	C	27	20	6.0	540	70	1,803	202	6.55%	5.74%	956	1		20	2	130	S2	6	0.7	T5
36	G	27	630	C	28	1	15.0	40	3	100	8	4.94%	5.30%	62								0.0	T5
37	G	28	630	C	28	1	20.0	650	80	1,803	202	5.52%	5.00%	1054								0.8	T5
38	G	29	630	C	29	10	25.0	130	10	330	30	5.03%	5.95%	202								0.1	T5
39	SD	30	630	C	29	10	36.0	1,527	142	1,395	162	-0.47%	0.70%	1463	1		25	2	130	S2	6	1.0	T5
40	SD	30	940	C	29	30	3.5	1,527	142	1,395	162	-0.47%	0.70%	1463	1		25	1	100	S2	6	1.0	T5
41	E	31	920	C	30	20	36.0	10	2	35	6	6.82%	5.95%	18								0.0	T5
42	G	32	920	C	30	20	27.1	9	2	32	6	6.90%	5.95%	16								0.0	T5
43	G	32	930	C	30	30	8.0	9	2	32	6	6.90%	5.95%	16								0.0	T5
44	G	33	920	C	31	10	31.6	10	2	35	6	6.82%	5.95%	18								0.0	T5
45	E	34	930	C	31	20	9.0	10	2	35	6	6.82%	5.95%	18								0.0	T5
46	E	35	930	C	31	20	7.0	9	2	32	6	6.90%	5.95%	16								0.0	T5
47	G	36	920	C	42	1	25.5	15	2	40	6	5.30%	5.95%	24								0.0	T5
48	G	36	920	C	32	12	7.0	15	2	40	6	5.30%	5.95%	24								0.0	T5
49	G	37	910	C	33	20	20.0	15	2	60	9	7.57%	8.24%	29								0.0	T5
50	E	37	930	C	33	10	4.5	15	2	60	9	7.57%	8.24%	29								0.0	T5
51	SD	38	630	C	39	40	4.4	15	2	60	9	7.57%	8.24%	29	1		25	1	150	S3	8	0.0	T5
52	G	38	930	C	33	10	16.0	15	2	60	9	7.57%	8.24%	29								0.0	T5
53	SD	38	930	C	33	10	16.2	15	2	60	9	7.57%	8.24%	29	1		25	1	150	S3	8	0.0	T5
54	G	38	940	C	33	11	3.0	15	2	60	9	7.57%	8.24%	29									
55	E	39	910	C	33	10	4.5	9	2	43	9	8.58%	8.24%	19								0.0	T5
56	SD	40	930	C	40	1	31.0	9	2	32	6	6.90%	5.95%	16	1		30	1	300	S3	8	0.0	T5
57	SD	41	910	C	33	20	1.0	6	1	20	2	6.54%	3.72%	11	1		25	2	130	S2	6	0.0	T5
58	SD	42	940	C	33	20	17.0	97	23	401	91	7.76%	7.51%	190	1		25	2	130	S2	6	0.3	T5
59	G	43	930	C	33	20	10.0	5	1	12	3	4.72%	5.95%	8								0.0	T5
60	SD	44	620	C	34	10	41.7	10	3	3,659	827	36.43%	34.41%	164	1	25	25	2	150	S3	8	0.3	T5
61	SD	45	620	C	34	10	10.5	13	7	3,857	852	34.93%	28.75%	193	1	25	25	2	150	S3	8	0.5	T5
62	SD	46	720	C	34	20	8.2	23	5	471	83	17.22%	15.94%	96	1	25	25	1	130	S2	6	0.1	T5
63	SD	46	620	C	34	10	10.5	23	5	471	83	17.22%	15.94%	96	1	25	25	2	150	S3	8	0.1	T5
64	G	47	720	C	35	10	5.0	208	45	6,459	1,420	19.82%	19.92%	1059								1.4	T4
65	G	47	720	C	35	10	49.4	208	45	6,459	1,420	19.82%	19.92%	1059								1.4	T4
66	SD	47	820	C	35	20	10.0	208	45	6,459	1,420	19.82%	19.92%	1059	2		25	1	130	S3	8	1.4	T4
67	SD	47	720	C	35	10	1.6	208	45	6,459	1,420	19.82%	19.92%	1059	1		25	2	150	S3	8	1.4	T4

(continued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
33	G	25	640	C	26	1	21.0								Upg. SD	2	OK	2	OK	2	OK	2	OK
34	SD	26	520	C	27	10	29.5	1.33	2.1	12	6	1.5	0.09	6	Reseal	3	OK	4	OK	4	OK	5	OK
35	SD	26	530	C	27	20	6.0	1.33	2.1	12	8	0.5	0.09	8	SD Rehab	2	OK	3	OK	3	OK	4	OK
36	G	27	630	C	28	1	15.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
37	G	28	630	C	28	1	20.0						0.09		Upg. SD	2	OK	3	OK	3	OK	4	OK
38	G	29	630	C	29	10	25.0						0.09		Upg. SD	2	OK	3	OK	3	OK	4	OK
39	SD	30	630	C	29	10	36.0	1.35	2.1	18	8	0.5	0.12	8	SD Rehab	3	OK	3	OK	4	OK	4	OK
40	SD	30	940	C	29	30	3.5	0.58	1.4	25	8	0.5	0.12	8	SD Rehab	3	OK	3	OK	4	OK	4	OK
41	E	31	920	C	30	20	36.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
42	G	32	920	C	30	20	27.1								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
43	G	32	930	C	30	30	8.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
44	G	33	920	C	31	10	31.6								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
45	E	34	930	C	31	20	9.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
46	E	35	930	C	31	20	7.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
47	G	36	920	C	42	1	25.5								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
48	G	36	920	C	32	12	7.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
49	G	37	910	C	33	20	20.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
50	E	37	930	C	33	10	4.5								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
51	SD	38	630	C	39	40	4.4	0.82	1.9	22	6	1.5	0.00	6	Reseal	3	OK	3	OK	3	OK	3	OK
52	G	38	930	C	33	10	16.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
53	SD	38	930	C	33	10	16.2	0.82	1.9	22	6	1.5	0.00	6	Reseal	3	OK	3	OK	3	OK	3	OK
54	G	38	940	C	33	11	3.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
55	E	39	910	C	33	10	4.5								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
56	SD	40	930	C	40	1	31.0	1.56	2.6	9	4	2.4	0.00	4	OK	4	OK	4	OK	4	OK	4	OK
57	SD	41	910	C	33	20	1.0	1.35	2.1	NA	5	1.9	0.00	5	OK	5	OK	5	OK	5	OK	5	OK
58	SD	42	940	C	33	20	17.0	1.35	2.1	NA	5	1.9	0.03	5	OK	5	OK	5	OK	6	OK	6	OK
59	G	43	930	C	33	20	10.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
60	SD	44	620	C	34	10	41.7	1.74	2.8	23	15	-2.6	0.02	15	SD Recon	2	OK	2	OK	2	OK	2	OK
61	SD	45	620	C	34	10	10.5	1.74	2.8	23	15	-2.6	0.02	15	SD Recon	2	OK	2	OK	2	OK	2	OK
62	SD	46	720	C	34	20	8.2	0.92	1.7	23	12	-1.3	0.03	12	SD Recon	2	OK	2	OK	2	OK	3	OK
63	SD	46	620	C	34	10	10.5	1.74	2.8	23	15	-2.6	0.01	15	SD Recon	2	OK	2	OK	2	OK	2	OK
64	G	47	720	C	35	10	5.0								Mnt. G		Mnt. G		Mnt. G		Upg. AC	2	OK
65	G	47	720	C	35	10	49.4								Mnt. G		Mnt. G		Mnt. G		Upg. AC	2	OK
66	SD	47	820	C	35	20	10.0	1.35	2.4	23	8	0.5	0.12	8	Reseal	4	OK	4	OK	5	OK	5	OK
67	SD	47	720	C	35	10	1.6	1.54	2.6	23	16	-3.1	0.09	16	SD Recon	2	OK	3	OK	3	OK	4	OK

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10 (PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
68	SD	48	820	C	35	20	9.0	196	42	3,006	638	15.45%	15.40%	714	2		25	1	130	S3	8	0.9	T5
69	SD	49	770	C	36	21	22.5	632	145	2,766	293	8.08%	3.77%	1272	1		20	1	150	S1	3	1.3	T4
70	SD	49	830	C	36	11	30.9	632	145	2,766	293	8.08%	3.77%	1272	1		20	1	150	S1	3	1.3	T4
71	SD	50	236	C	37	10	39.9	33	5	417	35	14.28%	10.78%	110	1	25	20	1	150	S2	6	0.1	T5
72	SD	50	620	C	37	10	9.9	33	5	417	35	14.28%	10.78%	110	1	25	20	1	150	S2	6	0.1	T5
73	SD	51	620	C	37	10	9.9	10	2	173	34	16.19%	16.08%	39	1	25	20	1	150	S2	6	0.0	T5
74	G	52	770	C	37	30	10.5	5	1	470	61	27.01%	24.16%	43								0.0	T5
75	G	52	830	C	37	20	52.0	5	1	470	61	27.01%	24.16%	43								0.0	T5
76	SD	53	940	C	38	1	16.6	1,193	68	1,899	147	2.48%	4.14%	1487	1		20	2	130	S3	8	0.6	T5
77	SD	54	770	C	39	11	2.2	150	24	1,048	127	10.77%	9.17%	377	1	25	20	1	150	S3	8	0.3	T5
78	SD	54	770	C	39	12	18.6	150	24	1,048	127	10.77%	9.17%	377	1	25	20	1	150	S3	8	0.3	T5
79	SD	54	830	C	39	20	27.6	150	24	1,048	127	10.77%	9.17%	377	1	25	20	1	130	S3	8	0.3	T5
80	SD	55	830	C	39	20	22.6	652	151	1,532	180	4.60%	0.93%	977	1	25	20	1	130	S3	8	1.1	T4
81	SD	55	940	C	39	30	14.1	652	151	1,532	180	4.60%	0.93%	977	1	25	20	1	130	S3	8	1.1	T4
82	SD	55	940	C	39	30	15.0	652	151	1,532	180	4.60%	0.93%	977	1	25	20	1	130	S3	8	1.1	T4
83	G	56	940	C	39	30	19.1	140	37	370	100	5.25%	5.37%	222								0.4	T5
84	G	57	910	C	41	20	15.9	50	6	140	15	5.57%	4.94%	81								0.1	T5
85	E	57	910	C	41	20	5.0	50	6	140	15	5.57%	4.94%	81								0.1	T5
86	G	57	930	C	41	10	27.9	50	6	140	15	5.57%	4.94%	81								0.1	T5
87	SD	58	910	C	42	1	8.3	6	1	20	2	6.54%	3.72%	11	1		20	1	130	S4	12	0.0	T5
88	G	58	910	C	42	1	18.9	6	1	20	2	6.54%	3.72%	11								0.0	T5
89	E	59	920	C	43	1	10.5	105	15	499	70	8.55%	8.45%	220								0.2	T5
90	G	59	920	C	43	1	19.0	105	15	499	70	8.55%	8.45%	220								0.2	T5
91	G	60	910	C	44	20	17.3	50	8	127	22	5.03%	5.47%	78								0.1	T5
92	E	60	930	C	44	10	19.3	50	8	127	22	5.03%	5.47%	78								0.1	T5
93	G	61	760	C	44	30	28.5	65	8	180	20	5.51%	4.94%	105								0.1	T5
94	SD	61	760	C	45	2	18.7	65	8	180	20	5.51%	4.94%	105	1	20	25	1	130	S2	6	0.1	T5
95	SD	61	760	C	45	1	2.5	65	8	180	20	5.51%	4.94%	105	1	20	25	1	130	S2	6	0.1	T5
96	E	62	850	C	46	10	51.0	25	2	60	5	4.72%	4.94%	38								0.0	T5
97	E	62	860	C	46	20	45.0	25	2	60	5	4.72%	4.94%	38								0.0	T5
98	E	63	850	C	46	10	64.0	25	2	60	5	4.72%	4.94%	38								0.0	T5
99	G	64	760	C	48	12	44.7	30	2	80	5	5.30%	4.94%	48								0.0	T5
100	E	64	760	C	48	12	16.5	30	2	80	5	5.30%	4.94%	48								0.0	T5
101	E	64	770	C	48	31	18.9	30	2	80	5	5.30%	4.94%	48								0.0	T5
102	G	64	820	C	48	20	21.0	30	2	80	5	5.30%	4.94%	48								0.0	T5

(continued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
68	SD	48	820	C	35	20	9.0	1.35	2.4	23	8	0.5	0.07	8	Reseal	3	OK	4	OK	4	OK	4	OK
69	SD	49	770	C	36	21	22.5	0.80	0.9	11	10	-0.4	0.09	10	SD Recon	2	OK	3	OK	3	OK	4	OK
70	SD	49	830	C	36	11	30.9	0.80	0.9	11	10	-0.4	0.09	10	SD Recon	2	OK	3	OK	3	OK	4	OK
71	SD	50	236	C	37	10	39.9	1.00	1.8	16	10	-0.4	0.02	10	SD Recon	2	OK	2	OK	2	OK	2	OK
72	SD	50	620	C	37	10	9.9	1.00	1.8	16	10	-0.4	0.02	10	SD Recon	2	OK	2	OK	2	OK	2	OK
73	SD	51	620	C	37	10	9.9	1.00	1.8	16	10	-0.4	0.01	10	SD Recon	2	OK	2	OK	2	OK	2	OK
74	G	52	770	C	37	30	10.5								Mnt. E		Mnt. E		Mnt. E		Upg. G		Mnt. G
75	G	52	830	C	37	20	52.0								Mnt. E		Mnt. E		Mnt. E		Upg. G		Mnt. G
76	SD	53	940	C	38	1	16.6	1.33	2.4	18	6	1.5	0.05	6	Reseal	3	OK	4	OK	4	OK	4	OK
77	SD	54	770	C	39	11	2.2	1.00	2.0	22	7	1.0	0.04	7	Reseal	3	OK	3	OK	4	OK	4	OK
78	SD	54	770	C	39	12	18.6	1.00	2.0	NA	7	1.0	0.04	7	Reseal	3	OK	3	OK	4	OK	4	OK
79	SD	54	830	C	39	20	27.6	0.90	2.0	NA	11	-0.8	0.05	11	SD Recon	2	OK	3	OK	3	OK	3	OK
80	SD	55	830	C	39	20	22.6	0.90	2.0	NA	11	-0.8	0.18	11	SD Recon	3	OK	4	OK	5	OK	6	OK
81	SD	55	940	C	39	30	14.1	0.90	2.0	22	7	1.0	0.18	7	Reseal	4	OK	5	OK	6	OK	7	Reseal
82	SD	55	940	C	39	30	15.0	0.90	2.0	22	7	1.0	0.18	7	Reseal	4	OK	5	OK	6	OK	7	Reseal
83	G	56	940	C	39	30	19.1								Mnt. G		Mnt. G		Mnt. G		MNT. G		MNT. G
84	G	57	910	C	41	20	15.9								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
85	E	57	910	C	41	20	5.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
86	G	57	930	C	41	10	27.9								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
87	SD	58	910	C	42	1	8.3	0.70	2.1	17	8	0.5	0.01	8	SD Rehab	2	OK	2	OK	2	OK	2	OK
88	G	58	910	C	42	1	18.9								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
89	E	59	920	C	43	1	10.5								Upg. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
90	G	59	920	C	43	1	19.0								MNT. G		MNT. G		MNT. G		MNT. G		Mnt. G
91	G	60	910	C	44	20	17.3								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
92	E	60	930	C	44	10	19.3								Mnt. E		Mnt. E		Upg. G		Mnt. G		Mnt. G
93	G	61	760	C	44	30	28.5								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
94	SD	61	760	C	45	2	18.7	0.88	1.7	33	13	-1.7	0.02	13	SD Recon	2	OK	2	OK	2	OK	2	OK
95	SD	61	760	C	45	1	2.5	0.88	1.7	33	10	-0.4	0.02	10	SD Recon	2	OK	2	OK	2	OK	2	OK
96	E	62	850	C	46	10	51.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
97	E	62	860	C	46	20	45.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
98	E	63	850	C	46	10	64.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
99	G	64	760	C	48	12	44.7								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
100	E	64	760	C	48	12	16.5								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
101	E	64	770	C	48	31	18.9								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
102	G	64	820	C	48	20	21.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10(PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
103	G	65	770	C	50	1	20.0	12	4	5,524	792	38.09%	32.09%	219								0.3	T5
104	G	66	770	C	50	1	31.7	12	4	5,559	797	38.14%	32.14%	220								0.4	T5
105	SD	67	770	C	51	12	9.0	72	15	1,149	236	15.70%	15.61%	267	1	25	25	1	150	S4	12	0.3	T5
106	SD	67	770	C	51	20	11.0	72	15	1,149	236	15.70%	15.61%	267	1	25	25	1	150	S4	12	0.3	T5
107	SD	68	770	C	51	12	18.1	60	12	6,035	880	27.47%	25.36%	533	1	25	25	1	150	S4	12	0.6	T5
108	SD	69	820	C	51	20	10.0	37	8	1,090	180	19.49%	17.81%	184	1		25	1	150	S4	12	0.2	T5
109	SD	69	820	C	51	20	19.5	37	8	1,090	180	19.49%	17.81%	184	1		25	1	150	S4	12	0.2	T5
110	SD	70	810	C	51	30	66.0	37	8	1,098	182	19.53%	17.87%	184	1	25	25	1	150	S2	6	0.2	T5
111	SD	70	820	C	51	20	23.5	37	8	1,098	182	19.53%	17.87%	184	1		25	1	150	S4	12	0.2	T5
112	SD	71	730	C	51	40	49.6	19	7	906	202	22.56%	19.36%	119	1	25	25	1	150	S2	6	0.2	T5
113	E	71	810	C	51	40	15.5	19	7	906	202	22.56%	19.36%	119								0.2	T5
114	E	71	810	C	51	30	39.0	19	7	906	202	22.56%	19.36%	119								0.2	T5
115	E	72	810	C	52	1	85.7	20	3	50	7	4.94%	4.56%	31								0.0	T5
116	G	73	770	C	53	10	11.0	160	60	2,950	600	16.58%	12.88%	636								1.1	T4
117	G	74	820	C	53	20	38.0	160	60	2,950	600	16.58%	12.88%	636								1.1	T4
118	SD	74	820	C	53	20	16.5	160	60	2,950	600	16.58%	12.88%	636	1		20	1	275	S2	6	1.1	T4
119	G	75	820	C	53	20	18.9	160	60	2,950	600	16.58%	12.88%	636								1.1	T4
120	SD	76	770	C	54	12	32.8	160	60	2,950	600	16.58%	12.88%	636	2	25	50	1	130	S2	6	1.1	T4
121	G	76	820	C	54	20	24.7	160	60	2,950	600	16.58%	12.88%	636								1.1	T4
122	SD	77	740	C	55	10	10.2	379	77	3,869	697	13.01%	12.29%	1139	1	20	25	1	130	S3	8	1.3	T4
123	SD	77	810	C	55	20	29.9	379	77	3,869	697	13.01%	12.29%	1139	1	20	25	1	130	S3	8	1.3	T4
124	SD	78	810	C	55	20	29.8	252	57	3,121	612	14.16%	13.31%	830	1	20	25	1	130	S3	8	1.0	T4
125	SD	78	820	C	55	30	11.5	252	57	3,121	612	14.16%	13.31%	830	1		20	1	125	S3	8	1.0	T4
126	SD	79	740	C	56	1	12.9	85	5	4,320	548	22.97%	28.04%	546	1	20	25	1	150	S2	6	0.3	T5
127	SD	80	740	C	56	1	44.5	4	1	4,199	536	44.21%	39.20%	108	1	20	25	1	150	S2	6	0.2	T5
128	SD	81	740	C	57	20	38.8	90	5	311	23	6.74%	8.36%	162	1		25	1	150	S2	6	0.1	T5
129	SD	81	750	C	57	11	2.0	90	5	311	23	6.74%	8.36%	162	1		25	1	150	S3	8	0.1	T5
130	G	81	750	C	57	11	62.0	90	5	311	23	6.74%	8.36%	162								0.1	T5
131	AC	82	110	C	58	10	7.0	1,001	112	2,154	263	4.12%	4.60%	1439	2	35	50	1	200	S2	6	1.0	T4
132	AC	83	110	C	58	10	6.0	40	6	110	15	5.47%	4.94%	65	2	35	50	1	200	S2	6	0.1	T5
133	SD	83	710	C	58	20	97.6	40	6	110	15	5.47%	4.94%	65	1		25	1	150	S4	12	0.1	T5
134	AC	84	110	C	59	1	10.0	533	114	411	86	-1.36%	-1.47%	471	2	80	40	1	300	S2	6	0.7	T5
135	AC	85	110	C	59	1	2.3	120	10	320	28	5.30%	5.57%	191	2	80	40	1	300	S2	6	0.1	T5
136	AC	86	110	C	59	1	2.3	783	154	3,134	470	7.57%	6.05%	1510	2	80	40	1	300	S2	6	1.6	T4

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NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
103	G	65	770	C	50	1	20.0								Mnt. E		Mnt. E		Upg. G		Mnt. G		Upg. AC
104	G	66	770	C	50	1	31.7								Mnt. E		Mnt. E		Upg. G		Mnt. G		Upg. AC
105	SD	67	770	C	51	12	9.0	1.02	2.4	33	9	0.1	0.03	9	SD Rehab	2	OK	2	OK	2	OK	3	OK
106	SD	67	770	C	51	20	11.0	1.02	2.4	15	7	1.0	0.03	7	Reseal	3	OK	3	OK	3	OK	4	OK
107	SD	68	770	C	51	12	18.1	1.02	2.4	15	7	1.0	0.05	7	Reseal	3	OK	3	OK	4	OK	4	OK
108	SD	69	820	C	51	20	10.0	0.82	2.2	9	5	1.9	0.02	5	OK	5	OK	5	OK	5	OK	5	OK
109	SD	69	820	C	51	20	19.5	0.82	2.2	9	5	1.9	0.02	5	OK	5	OK	5	OK	5	OK	5	OK
110	SD	70	810	C	51	30	66.0	1.02	1.8	33	9	0.1	0.05	9	SD Rehab	2	OK	2	OK	3	OK	3	OK
111	SD	70	820	C	51	20	23.5	0.82	2.2	9	5	1.9	0.02	5	OK	5	OK	5	OK	5	OK	5	OK
112	SD	71	730	C	51	40	49.6	1.02	1.8	33	12	-1.3	0.04	12	SD Recon	2	OK	2	OK	3	OK	3	OK
113	E	71	810	C	51	40	15.5								Mnt. E		Mnt. E		Upg. G		Mnt. G		Mnt. G
114	E	71	810	C	51	30	39.0								Mnt. E		Mnt. E		Upg. G		Mnt. G		Mnt. G
115	E	72	810	C	52	1	85.7								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
116	G	73	770	C	53	10	11.0								Mnt. G		Mnt. G		Mnt. G		Upg. AC	2	OK
117	G	74	820	C	53	20	38.0								Mnt. G		Upg. SD	2	OK	2	OK	2	OK
118	SD	74	820	C	53	20	16.5	1.40	2.2	7	5	1.9	0.12	5	OK	6	OK	6	OK	6	OK	6	OK
119	G	75	820	C	53	20	18.9								Mnt. G		Mnt. G		Mnt. G		Upg. AC	2	OK
120	SD	76	770	C	54	12	32.8	1.65	2.4	21	6	1.5	0.08	6	Reseal	3	OK	4	OK	4	OK	5	OK
121	G	76	820	C	54	20	24.7								Mnt. G		Mnt. G		Mnt. G		Upg. AC	2	OK
122	SD	77	740	C	55	10	10.2	0.88	1.9	14	8	0.5	0.22	8	SD Rehab	3	OK	4	OK	5	OK	6	Reseal
123	SD	77	810	C	55	20	29.9	0.88	1.9	14	5	1.9	0.22	5	OK	6	Reseal	4	OK	5	OK	6	Reseal
124	SD	78	810	C	55	20	29.8	0.88	1.9	14	5	1.9	0.18	5	OK	6	Reseal	4	OK	5	OK	6	OK
125	SD	78	820	C	55	30	11.5	0.68	1.7	14	4	2.4	0.26	4	OK	6	OK	7	Reseal	4	OK	6	OK
126	SD	79	740	C	56	1	12.9	0.98	1.8	NA	10	-0.4	0.07	10	SD Recon		OK	0	OK	1	OK	1	OK
127	SD	80	740	C	56	1	44.5	0.98	1.8	NA	10	-0.4	0.04	10	SD Recon		OK	0	OK	0	OK	1	OK
128	SD	81	740	C	57	20	38.8	0.82	1.6	24	8	0.5	0.02	8	SD Rehab	2	OK	2	OK	2	OK	2	OK
129	SD	81	750	C	57	11	2.0	0.82	1.9	NA	3	2.8	0.01	3	OK	3	OK	3	OK	3	OK	3	OK
130	G	81	750	C	57	11	62.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
131	AC	82	110	C	58	10	7.0	2.40	3.2	NA	4	2.4	0.03	4	OK	4	OK	4	OK	4	OK	5	OK
132	AC	83	110	C	58	10	6.0	2.40	3.2	NA	4	2.4	0.00	4	OK	4	OK	4	OK	4	OK	4	OK
133	SD	83	710	C	58	20	97.6	0.82	2.2	NA	7	1.0	0.01	7	Reseal	3	OK	3	OK	3	OK	3	OK
134	AC	84	110	C	59	1	10.0	3.68	4.5	NA	3	2.8	0.01	3	OK	3	OK	3	OK	3	OK	3	OK
135	AC	85	110	C	59	1	2.3	3.68	4.5	NA	3	2.8	0.00	3	OK	3	OK	3	OK	3	OK	3	OK
136	AC	86	110	C	59	1	2.3	3.68	4.5	NA	3	2.8	0.01	3	OK	3	OK	3	OK	3	OK	3	OK

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10 (PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
137	AC	87	110	C	60	10	8.0	675	76	1,458	178	4.14%	4.58%	972	2	60	20	1	175	S4	12	0.7	T5
138	AC	88	110	C	60	10	5.5	1,798	206	3,955	501	4.24%	4.79%	2612	2	60	20	1	175	S4	12	1.9	T4
139	AC	88	710	C	60	20	4.9	1,798	206	3,955	501	4.24%	4.79%	2612	2	60	20	1	175	S4	12	1.9	T4
140	AC	89	110	C	61	1	7.0	1,600	220	3,500	520	4.21%	4.63%	2318	2	35	50	1	200	S2	6	2.0	T4
141	AC	90	110	C	61	1	6.5	665	74	1,436	176	4.13%	4.67%	958	2	35	50	1	200	S2	6	0.7	T5
142	AC	91	110	C	62	20	7.0	1,110	226	6,388	1,117	9.65%	8.77%	2543	2	35	75	1	130	S3	8	2.9	T4
143	AC	91	110	C	62	10	26.0	1,110	226	6,388	1,117	9.65%	8.77%	2543	2	35	75	1	130	S3	8	2.9	T4
144	AC	92	110	C	62	20	14.5	1,172	231	6,688	1,153	9.60%	8.83%	2674	2	35	75	1	130	S3	8	2.9	T4
145	SD	93	110	C	63	10	7.7	125	19	354	61	5.63%	6.33%	205	1		20	1	130	S3	8	0.2	T5
146	SD	93	210	C	63	20	2.6	125	19	354	61	5.63%	6.33%	205	1		20	1	130	S3	8	0.2	T5
147	SD	94	210	C	63	10	7.8	1,043	116	2,243	274	4.11%	4.63%	1499	1		20	1	130	S3	8	1.1	T4
148	SD	95	210	C	63	20	16.0	3,258	280	9,020	905	5.51%	6.37%	5278	2	35	25	1	200	S3	8	2.9	T4
149	SD	96	210	C	63	20	18.0	50	2	193	18	7.37%	12.26%	95	1		20	1	130	S3	8	0.0	T5
150	SD	97	210	C	63	20	17.0	15	2	36	6	4.72%	5.95%	23	2	35	25	1	200	S3	8	0.0	T5
151	SD	98	210	C	64	10	5.5	4,869	413	14,319	1,491	5.84%	6.99%	8116	1		20	1	125	S3	8	4.5	T3
152	SD	98	210	C	64	20	6.2	4,869	413	14,319	1,491	5.84%	6.99%	8116	1		20	1	125	S3	8	4.5	T3
153	G	99	210	C	64	20	13.2	1,588	130	4,086	386	5.10%	5.90%	2485								1.3	T4
154	SD	99	110	C	64	20	18.1	1,588	130	4,086	386	5.10%	5.90%	2485	2	35	20	1	125	S3	8	1.3	T4

(continued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
137	AC	87	110	C	60	10	8.0	2.24	3.6	NA	5	1.9	0.01	5	OK	5	OK	5	OK	5	OK	5	OK
138	AC	88	110	C	60	10	5.5	2.24	3.6	NA	5	1.9	0.03	5	OK	5	OK	5	OK	6	OK	6	OK
139	AC	88	710	C	60	20	4.9	2.24	3.6	23	5	1.9	0.03	5	OK	5	OK	5	OK	6	OK	6	OK
140	AC	89	110	C	61	1	7.0	2.40	3.2	NA	4	2.4	0.06	4	OK	4	OK	5	OK	5	OK	5	OK
141	AC	90	110	C	61	1	6.5	2.40	3.2	NA	4	2.4	0.02	4	OK	4	OK	4	OK	4	OK	4	OK
142	AC	91	110	C	62	20	7.0	1.83	2.9	23	3	2.8	0.12	3	OK	4	OK	4	OK	5	OK	6	OK
143	AC	91	110	C	62	10	26.0	1.83	2.9	23	3	2.8	0.12	3	OK	4	OK	4	OK	5	OK	6	OK
144	AC	92	110	C	62	20	14.5	1.83	2.9	23	6	1.5	0.13	6	Ovrlay	4	OK	4	OK	5	OK	6	OK
145	SD	93	110	C	63	10	7.7	0.70	1.8	21	7	1.0	0.05	7	Reseal	3	OK	3	OK	4	OK	4	OK
146	SD	93	210	C	63	20	2.6	0.70	1.8	21	7	1.0	0.05	7	Reseal	3	OK	3	OK	4	OK	4	OK
147	SD	94	210	C	63	10	7.8	0.70	1.8	21	7	1.0	0.25	7	Reseal	4	OK	6	OK	7	Reseal	4	OK
148	SD	95	210	C	63	20	16.0	2.30	3.3	NA	3	2.8	0.07	3	OK	3	OK	4	OK	4	OK	4	OK
149	SD	96	210	C	63	20	18.0	0.70	1.8	21	7	1.0	0.01	7	Reseal	3	OK	3	OK	3	OK	3	OK
150	SD	97	210	C	63	20	17.0	2.30	3.3	NA	3	2.8	0.00	3	OK	3	OK	3	OK	3	OK	3	OK
151	SD	98	210	C	64	10	5.5	1.56	2.6	16	11	-0.8	0.28	11	Upg. AC	3	OK	5	OK	6	Ovrlay	4	OK
152	SD	98	210	C	64	20	6.2	1.56	2.6	16	11	-0.8	0.28	11	Upg. AC	3	OK	5	OK	6	Ovrlay	4	OK
153	G	99	210	C	64	20	13.2						0.08		Upg. SD	2	OK	3	OK	3	OK	4	OK
154	SD	99	110	C	64	20	18.1	1.56	2.6	16	3	2.8	0.08	3	OK	3	OK	4	OK	4	OK	5	OK

ENGINEERING ASSESSMENT ON PAVING CONDITIONS (CLASS C, GROUPE-II)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10(PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
1	SD	1	210	C	64	20	15.5	1,568	128	5,214	576	6.53%	8.24%	2770	1		20	1	125	S3	8	1.6	T1
2	SD	2	210	C	65	1	32.5	38	11	1,264	204	20.26%	16.61%	200	1		25	1	150	S3	8	0.3	T4
3	SD	3	210	C	65	1	13.0	5	1	4	2	-1.17%	3.72%	4	1		25	1	150	S3	8	0.0	T5
4	SD	4	210	C	66	10	51.0	1,009	209	2,226	440	4.25%	4.00%	1468	1	20	25	1	250	S3	8	1.8	T2
5	SD	4	240	C	66	20	4.5	1,009	209	2,226	440	4.25%	4.00%	1468	1	20	25	1	250	S3	8	1.8	T2
6	SD	5	210	C	66	10	14.0	2,565	356	6,233	816	4.78%	4.46%	3906	1	20	25	1	250	S3	8	3.2	T1
7	SD	6	230	C	67	10	31.1	100	10	424	80	7.90%	11.57%	198	1		25	1	225	S2	6	0.2	T4
8	G	6	230	C	67	10	15.4	100	10	424	80	7.90%	11.57%	198								0.2	T4
9	G	6	240	C	67	20	24.9	100	10	424	80	7.90%	11.57%	198								0.2	T4
10	SD	7	240	C	67	20	5.1	1,300	200	4,995	842	7.34%	7.86%	2460			25	1	225	S2	6	2.4	T2
11	SD	8	740	C	67	30	11.0	1,300	200	4,995	842	7.34%	7.86%	2460	1		25	1	100	S4	12	2.4	T2
12	SD	8	740	C	67	30	6.9	1,300	200	4,995	842	7.34%	7.86%	2460	1		25	1	100	S4	12	2.4	T2
13	SD	9	240	C	68	1	18.1	1,300	200	4,687	776	6.98%	7.40%	2387	1		25	2	125	S2	6	2.3	T2
14	SD	10	740	C	69	10	17.6	157	21	520	68	6.51%	6.38%	277	1	20	25	2	150	S3	8	0.2	T4
15	G	11	240	C	69	20	42.0	20	3	59	5	5.86%	2.73%	33	1							0.0	T5
16	SD	11	240	C	69	20	2.0	20	3	59	5	5.86%	2.73%	33	1		25	2	150	S1	3	0.0	T5
17	G	11	240	C	69	20	17.0	20	3	59	5	5.86%	2.73%	33								0.0	T5
18	E	11	240	C	69	20	20.0	20	3	59	5	5.86%	2.73%	33	1							0.0	T5
19	G	12	240	C	69	20	21.0	156	21	518	68	6.52%	6.38%	275								0.2	T4
20	G	13	230	C	70	10	23.0	1,218	118	16,652	1,934	14.76%	15.86%	4204								2.6	T1
21	SD	14	230	C	70	10	33.0	1,214	118	7,202	500	9.82%	7.90%	2822	1	25	20	1	150	S3	8	1.4	T1
22	SD	14	250	C	70	20	23.0	1,214	118	7,202	500	9.82%	7.90%	2822	1	25	20	1	150	S3	8	1.4	T1
23	AC	15	230	C	71	1	29.0	5,927	659	11,186	1,323	3.40%	3.74%	8007	2	35	20	2	150	S3	8	5.7	T1
24	SD	16	230	C	72	1	25.1	2,400	270	9,424	1,119	7.46%	7.77%	4588	1		25	1	225	S3	8	3.2	T1
25	SD	17	220	C	73	10	4.0	634	113	2,778	460	8.09%	7.67%	1277	1		20	1	125	S3	8	2.1	T2
26	SD	18	220	C	73	10	18.8	1,239	219	6,342	798	8.97%	7.04%	2685	1	25	20	1	150	S3	8	2.4	T1
27	SD	19	230	C	73	20	12.1	1,068	193	5,756	706	9.27%	7.06%	2372	1	25	20	2	110	S3	8	1.3	T2
28	SD	20	220	C	74	20	14.5	96	27	1,404	277	15.17%	13.04%	342	1		20	1	150	S3	8	2.0	T2
29	SD	20	250	C	74	10	4.0	96	27	1,404	277	15.17%	13.04%	342	1		20	2	130	S3	8	0.5	T3
30	SD	21	220	C	74	20	9.5	847	165	5,591	762	10.44%	8.39%	2071	1		20	1	150	S3	8	0.5	T3
31	SD	22	250	C	75	1	9.2	213	58	2,354	478	13.48%	11.74%	665	1	25	20	1	150	S3	8	0.9	T3
32	G	23	240	C	76	20	12.0	356	92	1,099	279	6.11%	6.01%	607								0.9	T3
33	G	23	730	C	76	10	55.0	356	92	1,099	279	6.11%	6.01%	607								0.9	T3

ENGINEERING ASSESSMENT ON PAVING CONDITIONS (CLASS C, GROUPE-II)

(continued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
1	SD	1	210	C	64	20	15.5	2.00	3.0	16	11	-0.8	0.05	11	Upg. AC	2	OK	3	OK	3	OK	3	OK
2	SD	2	210	C	65	1	32.5	0.82	1.9	9	16	-3.1	0.05	16	SD Recon	2	OK	3	OK	3	OK	3	OK
3	SD	3	210	C	65	1	13.0	0.82	1.9	9	16	-3.1	0.00	16	SD Recon	2	OK	2	OK	2	OK	2	OK
4	SD	4	210	C	66	10	51.0	1.46	2.5	16	8	0.5	0.13	8	AC Rehab	3	OK	3	OK	4	OK	5	OK
5	SD	4	240	C	66	20	4.5	1.46	2.5	17	6	1.5	0.13	6	Reseal	4	OK	4	OK	5	OK	6	OK
6	SD	5	210	C	66	10	14.0	1.46	2.5	16	8	0.5	0.23	8	Upg. Ac	3	OK	4	OK	5	OK	7	Reseal
7	SD	6	230	C	67	10	31.1	1.18	2.0	33	12	-1.3	0.03	12	SD Recon	2	OK	2	OK	2	OK	3	OK
8	G	6	230	C	67	10	15.4								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
9	G	6	240	C	67	20	24.9								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
10	SD	7	240	C	67	20	5.1	NA	0.8	22	8	0.5	4.78	13	SD Recon	26	OK	50	OK	74	OK	98	OK
11	SD	8	740	C	67	30	11.0	0.58	1.9	33	10	-0.4	0.39	10	SD Recon	4	OK	6	OK	8	OK	10	OK
12	SD	8	740	C	67	30	6.9	0.58	1.9	33	10	-0.4	0.39	10	SD Recon	4	OK	6	OK	8	OK	10	OK
13	SD	9	240	C	68	1	18.1	1.30	2.1		8	0.5	0.30	8	SD Rehab	4	OK	5	OK	7	Reseal	5	OK
14	SD	10	740	C	69	10	17.6	1.70	2.7	34	8	0.5	0.01	8	SD Rehab	2	OK	2	OK	2	OK	2	OK
15	G	11	240	C	69	20	42.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
16	SD	11	240	C	69	20	2.0	1.54	1.6		16	-3.1	0.01	16	SD Recon	2	OK	2	OK	2	OK	2	OK
17	G	11	240	C	69	20	17.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
18	E	11	240	C	69	20	20.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
19	G	12	240	C	69	20	21.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
20	G	13	230	C	70	10	23.0		2.0				0.20		Upg. SD	3	OK	4	OK	5	OK	6	Upg. AC
21	SD	14	230	C	70	10	33.0	1.00	2.0	16	10	-0.4	0.20	10	SD Recon	3	OK	4	OK	5	OK	6	Upg. AC
22	SD	14	250	C	70	20	23.0	1.00	2.0	16	5	1.9	0.20	5	SD Recon	3	OK	4	OK	5	OK	6	Ovrlay
23	AC	15	230	C	71	1	29.0	2.16	3.2	19	9	0.1	0.16	9	Upg. AC	3	OK	4	OK	4	OK	5	OK
24	SD	16	230	C	72	1	25.1	1.18	2.2	19	10	-0.4	0.34	10	Upg. AC	4	OK	5	OK	7	Reseal	5	OK
25	SD	17	220	C	73	10	4.0	0.68	1.7		5	1.9	0.53	6	OK	8	SD Rehab	5	OK	7	Reseal	6	OK
26	SD	18	220	C	73	10	18.8	1.00	2.0		5	1.9	0.34	5	OK	7	Reseal	5	OK	6	Upg. AC	4	OK
27	SD	19	230	C	73	20	12.1	1.34	2.4	19	8	0.5	0.11	8	SD Rehab	3	OK	3	OK	4	OK	4	OK
28	SD	20	220	C	74	20	14.5	0.80	1.8	21	4	2.4	0.04	4	Reseal	3	OK	3	OK	4	OK	4	OK
29	SD	20	250	C	74	10	4.0	1.33	2.4	21	6	1.5	0.04	6	Reseal	3	OK	3	OK	4	OK	4	OK
30	SD	21	220	C	74	20	9.5	0.80	1.8	21	4	2.4	0.10	4	OK	5	OK	5	OK	6	Reseal	3	OK
31	SD	22	250	C	75	1	9.2	1.00	2.0		8	0.5	0.13	8	SD Rehab	3	OK	3	OK	4	OK	5	OK
32	G	23	240	C	76	20	12.0						0.06		Mnt. G		Mnt. G		Upg. SD	2	OK	3	OK
33	G	23	730	C	76	10	55.0						0.13		Mnt. G		Mnt. G		Upg. SD	3	OK	3	OK

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10 (PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
34	SD	23	730	C	76	10	3.0	356	92	1,099	279	6.11%	6.01%	607	1		20	2	150	S3	8	0.9	T3
35	SD	24	240	C	77	20	14.8	761	113	1,946	264	5.07%	4.57%	1187	1	20	20	1	130	S3	8	0.3	T3
36	AC	24	740	C	77	10	18.1	761	113	1,946	264	5.07%	4.57%	1187	2	35	20	1	130	S3	8	0.3	T3
37	SD	25	240	C	77	20	25.5	1,003	92	3,299	374	6.47%	7.66%	1763	1	20	20	1	130	S3	8	0.0	T5
38	SD	26	240	C	77	20	11.7	1,016	93	3,341	378	6.47%	7.66%	1786	1	20	20	1	130	S3	8	0.3	T3
39	SD	27	730	C	77	30	9.7	233	31	1,690	294	10.99%	12.57%	596	1		20	1	130	S4	12	0.3	T3
40	G	28	730	C	77	30	15.6	209	26	748	86	6.94%	6.50%	382									
41	SD	28	730	C	77	30	30.0	209	26	748	86	6.94%	6.50%	382	1		20	1	130	S4	12	0.3	T3
42	G	28	730	C	77	30	57.7	209	26	748	86	6.94%	6.50%	382								1.1	T2
43	G	28	840	C	77	40	19.0	209	26	748	86	6.94%	6.50%	382								0.3	T3
44	E	29	730	C	77	50	127.0	180	30	650	90	6.99%	5.95%	331								0.3	T3
45	E	29	450	C	82	0	218.3	180	30	650	90	6.99%	5.95%	331								0.3	T3
46	G	29	840	C	77	40	55.0	180	30	650	90	6.99%	5.95%	331								0.3	T3
47	E	29	730	C	77	40	50.7	180	30	650	90	6.99%	5.95%	331								0.3	T3
48	G	29	840	C	77	40	27.5	180	30	650	90	6.99%	5.95%	331									
49	G	30	840	C	77	40	17.5	209	26	748	86	6.94%	6.50%	382								0.3	T3
50	E	31	840	C	79	1	44.0	25	2	65	6	5.16%	5.95%	39								0.0	T5
51	E	31	840	C	78	1	88.0	25	2	65	6	5.16%	5.95%	39								0.0	T5
52	E	32	450	C	80	10	64.0	12	1	35	3	5.80%	5.95%	20								0.0	T5
53	E	32	530	C	80	20	194.0	12	1	35	3	5.80%	5.95%	20								0.0	T5
54	E	33	510	C	81	1	157.5	25	4	70	10	5.57%	4.94%	41								0.0	T5
55	SD	34	240	C	83	20	9.0	15	2	40	6	5.30%	5.95%	24	1		20	2	125	S3	8	0.0	T5
56	SD	34	740	C	83	10	2.0	15	2	40	6	5.30%	5.95%	24	1		20	2	125	S3	8	0.0	T5
57	G	34	240	C	83	20	21.7	15	2	40	6	5.30%	5.95%	24								0.0	T5
58	SD	35	620	C	86	1	11.4	2,040	280	3,638	601	3.09%	4.10%	2683	1	25	25	1	150	S3	8	2.5	T1
59	SD	36	740	C	88	1	39.9	3,994	798	8,932	1,557	4.33%	3.58%	5848	1		25	1	200	S3	8	6.8	T1
60	AC	37	110	C	89	1	2.0	533	114	956	217	3.12%	3.45%	703	2	25	40	1	200	S1	3	1.0	T3
61	AC	38	110	C	89	1	2.5	190	50	553	131	5.78%	5.20%	315	2	25	40	1	200	S1	3	0.5	T3
62	G	39	630	C	90	10	24.8	25	2	70	10	5.57%	8.84%	41								0.0	T5
63	G	39	920	C	90	20	4.5	25	2	70	10	5.57%	8.84%	41								0.0	T5
64	G	40	410	C	92	10	41.1	70	10	920	30	14.52%	5.95%	237								0.1	T4
65	G	41	460	C	92	20	68.0	70	10	920	30	14.52%	5.95%	237								0.1	T4
66	G	42	410	C	93	20	4.0	25	2	70	10	5.57%	8.84%	41								0.0	T5
67	E	42	410	C	93	20	8.3	25	2	70	10	5.57%	8.84%	41								0.0	T5
68	G	42	430	C	93	10	58.0	25	2	70	10	5.57%	8.84%	41								0.0	T5

(continued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
34	SD	23	730	C	76	10	3.0	1.52	2.6		10	-0.4	0.06	10	SD Recon	2	OK	3	OK	3	OK	3	OK
35	SD	24	240	C	77	20	14.8	0.86	1.9	20	8	0.5	0.05	8	SD Rehab	2	OK	3	OK	3	OK	3	OK
36	AC	24	740	C	77	10	18.1	1.34	2.4	21	8	0.5	0.02	8	AC Rehab	2	OK	2	OK	2	OK	2	OK
37	SD	25	240	C	77	20	25.5	0.86	1.9	20	8	0.5	0.00	8	SD Rehab	2	OK	2	OK	2	OK	2	OK
38	SD	26	240	C	77	20	11.7	0.86	1.9	20	8	0.5	0.05	8	SD Rehab	2	OK	3	OK	3	OK	3	OK
39	SD	27	730	C	77	30	9.7	0.70	2.1		8	0.5	0.04	8	SD Rehab	2	OK	2	OK	3	OK	3	OK
40	G	28	730	C	77	30	15.6								Upg. sd	2	OK	2	OK	2	OK	2	OK
41	SD	28	730	C	77	30	30.0	0.70	2.1		8	0.5	0.04	8	SD Rehab	2	OK	2	OK	3	OK	3	OK
42	G	28	730	C	77	30	57.7						0.04		Upg. sd	2	OK	2	OK	3	OK	3	OK
43	G	28	840	C	77	40	19.0						0.04		Mnt. G		Mnt. G		Mnt. G	2	Upg. SD	2	OK
44	E	29	730	C	77	50	127.0								Upg. G		Mnt. G		Mnt. G		Upg. SD	2	OK
45	E	29	450	C	82	0	218.3								Upg. G		Mnt. G		Mnt. G		Upg. SD	2	OK
46	G	29	840	C	77	40	55.0								Mnt. G		Mnt. G		Mnt. G	2	Upg. SD	2	OK
47	E	29	730	C	77	40	50.7								Upg. G		Mnt. G		Mnt. G		Upg. SD	2	OK
48	G	29	840	C	77	40	27.5								Mnt. G		Mnt. G		Mnt. G	2	Upg. SD	2	OK
49	G	30	840	C	77	40	17.5								Mnt. G		Mnt. G		Mnt. G	2	Upg. SD	2	OK
50	E	31	840	C	79	1	44.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
51	E	31	840	C	78	1	88.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
52	E	32	450	C	80	10	64.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
53	E	32	530	C	80	20	194.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
54	E	33	510	C	81	1	157.5								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
55	SD	34	240	C	83	20	9.0	1.28	2.3		8	0.5	0.00	8	SD Rehab	2	OK	2	OK	2	OK	2	OK
56	SD	34	740	C	83	10	2.0	1.28	2.3		8	0.5	0.00	8	SD Rehab	2	OK	2	OK	2	OK	2	OK
57	G	34	240	C	83	20	21.7								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
58	SD	35	620	C	86	1	11.4	1.02	2.1	21	8	0.5	0.34	8	Upg. AC	4	OK	5	OK	7	Reseal	5	OK
59	SD	36	740	C	88	1	39.9	2.40	3.4	40	13	-1.7	0.15	13	Upg. AC	3	OK	3	OK	4	OK	5	OK
60	AC	37	110	C	89	1	2.0	1.68	1.7		4	2.4	0.23	4	OK	5	OK	7	Ovrlay	4	OK	5	OK
61	AC	38	110	C	89	1	2.5	1.68	1.7		4	2.4	0.12	4	OK	5	OK	5	OK	6	OK	6	Ovrlay
62	G	39	630	C	90	10	24.8								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
63	G	39	920	C	90	20	4.5								Mnt. E		Mnt. G		Mnt. G		Mnt. G		Mnt. G
64	G	40	410	C	92	10	41.1								Mnt. G		Mnt. G		Mnt. G		Upg. SD	2	OK
65	G	41	460	C	92	20	68.0								Mnt. G		Mnt. G		Mnt. G		Upg. SD	2	OK
66	G	42	410	C	93	20	4.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
67	E	42	410	C	93	20	8.3								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
68	G	42	430	C	93	10	58.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10(PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
69	E	42	430	C	93	10	39.3	25	2	70	10	5.57%	8.84%	41								0.0	T5
70	G	43	430	C	94	1	42.7	25	4	70	10	5.57%	4.94%	41								0.0	T5
71	SD	44	440	C	97	10	15.3	7,343	1,042	14,479	1,939	3.64%	3.32%	10129	1		20	1	130	S3	8	0.6	T3
72	SD	45	440	C	97	10	9.8	370	61	1,348	216	7.04%	6.88%	683	1		20	1	130	S3	8	8.7	T1
73	SD	46	430	C	97	20	25.5	379	62	1,267	192	6.56%	6.13%	671	1		20	1	130	S3	8	0.3	T3
74	SD	47	440	C	97	10	32.5	199	36	475	62	4.69%	2.90%	300	1		20	1	130	S3	8	0.7	T3
75	G	48	440	C	98	20	20.0	319	53	3,000	426	12.52%	11.59%	922								0.8	T3
76	SD	48	110	C	98	10	25.0	319	53	3,000	426	12.52%	11.59%	922	1	25	25	1	130	S1	3	0.8	T3
77	SD	49	440	C	98	20	36.6	318	53	1,551	242	8.70%	8.32%	674	1		25	1	225	S2	6	0.6	T3
78	G	50	470	C	99	2	30.0	540	70	1,448	183	5.33%	5.19%	862								0.7	T3
79	SD	50	440	C	99	1	20.3	540	70	1,448	183	5.33%	5.19%	862	1		20	1	200	S2	6	0.7	T3
80	SD	50	440	C	99	1	9.5	540	70	1,448	183	5.33%	5.19%	862	1		20	1	200	S2	6	0.7	T3
81	G	51	440	C	99	2	30.0	10	3	20	9	3.72%	5.95%	14								0.0	T5
82	G	51	470	C	99	2	25.0	10	3	20	9	3.72%	5.95%	14								0.0	T5
83	G	52	470	C	99	2	54.0	50	14	133	38	5.28%	5.40%	79								0.1	T5
84	G	53	440	C	100	1	27.2	140	28	883	142	10.18%	8.92%	335								0.4	T3
85	G	54	440	C	100	1	5.0	457	81	1,648	258	6.98%	6.29%	839								0.8	T3
86	G	55	440	C	101	1	10.0	40	10	113	29	5.62%	5.76%	65								0.1	T5
87	G	55	470	C	101	2	42.0	40	10	113	29	5.62%	5.76%	65								0.1	T5
88	G	56	710	C	102	1	86.0	10	1	20	2	3.72%	3.72%	14								0.0	T5
89	SD	56	710	C	102	1	12.0	10	1	20	2	3.72%	3.72%	14	1		25	2	130	S3	8	0.0	T5
90	G	57	710	C	102	1	9.0	48	9	49	9	0.11%	0.00%	48									T5
91	G	58	710	C	102	1	5	10	1	20	2	3.72%	3.72%	14								0.0	T5
92	G	59	710	C	103	10	52.0	47	9	47	9	0.00%	0.00%	47									T5
93	G	59	350	C	103	20	70.0	47	9	50	10	0.33%	0.56%	48								0.1	T5
94	G	60	350	C	103	20	20.0	10	3	20	6	3.72%	3.72%	14								0.0	T5
95	G	60	310	C	103	30	116.0	10	3	20	6	3.72%	3.72%	14								0.0	T5
96	G	61	310	C	103	10	77.1	229	67	1,466	278	10.26%	7.78%	552								0.8	T3
97	SD	61	310	C	103	30	7.0	229	67	1,466	278	10.26%	7.78%	552	1		25	2	125	S3	8	0.8	T3
98	G	61	310	C	103	10	32.0	229	67	1,466	278	10.26%	7.78%	552								0.8	T3
99	G	61	350	C	103	20	80.0	229	67	1,466	278	10.26%	7.78%	552								0.8	T3
100	SD	62	350	C	105	1	4.0	998	162	3,266	348	6.44%	4.11%	1750	1		20	2	250	S2	6	1.4	T2
101	SD	63	350	C	105	1	2.5	520	146	1,886	324	7.02%	4.28%	957	1		20	2	250	S2	6	1.3	T3
102	E	64	320	C	106	1	38.0	200	30	550	80	5.47%	5.30%	323								0.3	T3
103	SD	64	320	C	106	1	18.0	200	30	550	80	5.47%	5.30%	323	1		25	2	275	S2	6	0.3	T3

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NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
69	E	42	430	C	93	10	39.3								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
70	G	43	430	C	94	1	42.7								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
71	SD	44	440	C	97	10	15.3	0.70	1.8	15	11	-0.8	0.15	11	Upg. AC	3	OK	4	OK	4	OK	5	OK
72	SD	45	440	C	97	10	9.8	0.70	1.8	15	11	-0.8	0.16	11	SD Recon	3	OK	4	OK	4	OK	5	OK
73	SD	46	430	C	97	20	25.5	0.70	1.8	12	4	2.4	0.07	4	OK	4	OK	5	OK	5	OK	5	OK
74	SD	47	440	C	97	10	32.5	0.70	1.8	15	11	-0.8	0.16	11	SD Recon	3	OK	4	OK	4	OK	5	OK
75	G	48	440	C	98	20	20.0						0.07		Mnt. G		Upg. SD	2	OK	3	OK	3	OK
76	SD	48	110	C	98	10	25.0	0.92	1.0	21	11	-0.8	0.30	11	SD Recon	4	OK	5	OK	7	Reseal	5	OK
77	SD	49	440	C	98	20	36.6	1.18	2.0	21	8	0.5	0.24	8	SD Rehab	3	OK	4	OK	6	OK	7	Reseal
78	G	50	470	C	99	2	30.0						0.20		Upg. SD	3	OK	4	OK	5	OK	6	OK
79	SD	50	440	C	99	1	20.3	1.04	1.8	33	10	-0.4	0.30	10	SD Rehab	4	OK	5	OK	7	Reseal	5	OK
80	SD	50	440	C	99	1	9.5	1.04	1.8	33	10	-0.4	0.30	10	SD Rehab	4	OK	5	OK	7	Reseal	5	OK
81	G	51	440	C	99	2	30.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
82	G	51	470	C	99	2	25.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
83	G	52	470	C	99	2	54.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
84	G	53	440	C	100	1	27.2								Upg. SD	2	OK	2	OK	2	OK	2	OK
85	G	54	440	C	100	1	5.0						0.24		SD Rehab	3	OK	4	OK	6	OK	7	Reseal
86	G	55	440	C	101	1	10.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
87	G	55	470	C	101	2	42.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
88	G	56	710	C	102	1	86.0								Mnt. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
89	SD	56	710	C	102	1	12.0	1.35	2.4		8	0.5	0.00	8	SD Rehab	2	OK	2	OK	2	OK	2	OK
90	G	57	710	C	102	1	9.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
91	G	58	710	C	102	1	5								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
92	G	59	710	C	103	10	52.0								Upg. SD	2	OK	2	OK	2	OK	2	OK
93	G	59	350	C	103	20	70.0								Upg. SD	2	OK	2	OK	2	OK	2	OK
94	G	60	350	C	103	20	20.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
95	G	60	310	C	103	30	116.0								Mnt. E		Mnt. E		Mnt. E		Mnt. E		Mnt. E
96	G	61	310	C	103	10	77.1						0.24		Upg. SD	3	OK	4	OK	6	OK	7	Reseal
97	SD	61	310	C	103	30	7.0	1.30	2.3		3	2.8	0.07	3	OK	3	OK	4	OK	4	OK	4	OK
98	G	61	310	C	103	10	32.0						0.24		Upg. SD	3	OK	4	OK	6	OK	7	Reseal
99	G	61	350	C	103	20	80.0						0.24		Upg. SD	3	OK	4	OK	6	OK	7	Reseal
100	SD	62	350	C	105	1	4.0	2.48	3.3		4	2.4	0.04	4	OK	4	OK	4	OK	5	OK	5	OK
101	SD	63	350	C	105	1	2.5	2.48	3.3		4	2.4	0.03	4	OK	4	OK	4	OK	5	OK	5	OK
102	E	64	320	C	106	1	38.0								Upg. G		Mnt. G		Mnt. G		Mnt. G		Mnt. G
103	SD	64	320	C	106	1	18.0	2.74	3.5		6	1.5	0.01	6	Reseal	3	OK	3	OK	3	OK	3	OK

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	ADT TOTAL (PCU)	1994 HEAVY (VEH)	ADT TOTAL (PCU)	2013 HEAVY (VEH)	GROWTH RATIO PCU (YR)	GROWTH RATIO HEAVY (YR)	AADT IN YEAR 10(PCU)	EXISTING PAVING CONDITIONS SURFACE Type	SURFACE N/L (mm)	SURFACE O/L (mm)	BASE Type	BASE B/L (mm)	SUBGRADE Soil Type	SUBGRADE CBR %	15YrS CUMUL. E.S.A. (Mill)	Traffic Class
104	E	64	320	C	106	1	18.0	200	30	550	80	5.47%	5.30%	323								0.3	T3
105	E	65	320	C	106	1	37.7	200	30	550	80	5.47%	5.30%	323								0.3	T3
106	E	66	310	C	107	10	19.0	76	4	140	10	3.27%	4.94%	102								0.0	T5
107	E	67	310	C	107	10	19.0	76	4	1,405	133	16.59%	20.25%	303								0.1	T3
108	E	68	310	C	107	10	11.0	76	4	1,412	134	16.62%	20.30%	303								0.0	T4
109	G	69	320	C	107	20	27.0	25	2	70	6	5.57%	5.95%	41								0.1	T3
110	E	69	320	C	107	20	15.0	25	2	70	6	5.57%	5.95%	41								ERR	ERR
111	G	70	320	C	108	1	50.0	25	2	70	6											0.0	T5
112	SD	71	310	C	111	1	21.2	45	4	1,419	135	19.92%	20.35%	231	1	25	20	1	200	S3	8	0.1	T4
113	E	72	330	C	112	20	93.4	112	37	623	159	9.45%	7.98%	252								0.4	T4
114	SD	72	360	C	112	10	29.0	112	37	623	159	9.45%	7.98%	252	1		25	2	125	S3	8	0.4	T4
115	G	73	810	C	113	10	30.0	10	1	35	3	6.82%	5.95%	18								0.0	T5
116	E	73	850	C	113	20	134.0	10	1	35	3	6.82%	5.95%	18								0.0	T5
117	SD	74	310	C	115	1	39.2	25	2	70	6	5.57%	5.95%	41	1		20	1	125	S3	8	0.0	T5
118	SD	75	510	C	116	10	19.0	12	1	35	3	5.80%	5.95%	20	1		20	1	125	S3	8	0.0	T5
119	SD	75	530	C	116	20	154.0	12	1	35	3	5.80%	5.95%	20	1		20	1	125	S3	8	0.0	T5
120	G	76	920	C	32	11	13.6	10	1	35	3	6.82%	5.95%	18									
121	G	76	920	C	32	11	5.6	10	1	35	3	6.82%	5.95%	18									

(continued from previous sheet)

NO.	PAVED GRAVE EARTH	S.L. No.	MOPW Distr.	ROAD RANK	CODE NO.	SEC.	Length km	S Design	N Modif.	Pave. Age, old (years)	IRI 1994 (m/km)	PSI 1994	Rough Progr (m/yr)	IRI 1995	Status 1995	IRI 2000	Status 2000	IRI 2005	Status 2005	IRI 2010	Status 2010	IRI 2015	Status 2015
104	E	64	320	C	106	1	18.0								Upg.G		Mnt.G		Mnt.G		Mnt.G		Mnt.G
105	E	65	320	C	106	1	37.7								Upg.G		Mnt.G		Mnt.G		Mnt.G		Mnt.G
106	E	66	310	C	107	10	19.0								Mnt.E		Mnt.E		Mnt.E		Mnt.E		Mnt.E
107	E	67	310	C	107	10	19.0								Upg.G		Mnt.G		Upg.SD	2	OK	2	OK
108	E	68	310	C	107	10	11.0								Mnt.E		Mnt.E		Mnt.E		Mnt.E		Mnt.E
109	G	69	320	C	107	20	27.0								Mnt.G		Mnt.G		Upg.SD	2	OK	2	OK
110	E	69	320	C	107	20	15.0								Mnt.E		Mnt.E		Mnt.E		Mnt.E		Mnt.E
111	G	70	320	C	108	1	50.0								Mnt.E		Mnt.E		Mnt.E		Mnt.E		Mnt.E
112	SD	71	310	C	111	1	21.2	1.24	2.3	19	8	0.5	0.01	8	Reseal	3	OK	3	OK	3	OK	3	OK
113	E	72	330	C	112	20	93.4								Upg.G		Mnt.G		Mnt.G		Mnt.G		Mnt.G
114	SD	72	360	C	112	10	29.0	1.30	2.3	19	14	-2.2	0.04	14	SD Recon	2	OK	2	OK	3	OK	3	OK
115	G	73	810	C	113	10	30.0								Upg.G		Mnt.G		Mnt.G		Mnt.G		Mnt.G
116	E	73	850	C	113	20	134.0								Mnt.E		Mnt.E		Mnt.E		Mnt.E		Mnt.E
117	SD	74	310	C	115	1	39.2	0.68	1.7	19	8	0.5	0.01	8	SD Rehab	2	OK	2	OK	2	OK	2	OK
118	SD	75	510	C	116	10	19.0	0.68	1.7	19	8	0.5	0.00	8	SD Rehab	2	OK	2	OK	2	OK	2	OK
119	SD	75	530	C	116	20	154.0	0.68	1.7	19	8	0.5	0.00	8	SD Rehab	2	OK	2	OK	2	OK	2	OK
120	G	76	920	C	32	11	13.6								Mnt.G		Mnt.G		Mnt.G		Mnt.G		Mnt.G
121	G	76	920	C	32	11	5.6								Mnt.G		Mnt.G		Mnt.G		Mnt.G		Mnt.G