

Without OB

		ITR Adjustment
Base - Future Maintenance		
Net Consumer Impact	0.979	0.979
Net Business Impact	1.025	1.025
Accident Costs	0.345	0.345
Fuel Carbon Emission Costs	0.048	0.048
Investment Costs	4.525	4.525
Indirect Tax Revenues	-0.093	-0.093
Government Funding	4.432	
Total Impact	6.829	6.829

With 20% OB

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		ITR Adjustment
Base - Future Maintenance		
Net Consumer Impact	0.979	0.979
Net Business Impact	1.025	1.025
Accident Costs	0.345	0.345
Fuel Carbon Emission Costs	0.048	0.048
Investment Costs	4.525	4.525
Indirect Tax Revenues	-0.093	-0.093
Government Funding	4.432	
Total Impact	6.829	6.829

	Corridor Options					
	Red	Green	Blue			
During Construction						
Net Consumer Impact	3.949	2.601	0.639	3.949	2.601	0.639
Net Business Impact	3.723	2.465	0.609	3.723	2.465	0.609
Accident Costs	1.773	1.124	0.249	1.773	1.124	0.249
Fuel Carbon Emission Costs	0.14	0.093	0.023	0.140	0.093	0.023
Investment Costs	0	0	0	0.000	0.000	0.000
Indirect Tax Revenues	-0.467	-0.309	-0.077	-0.467	-0.309	-0.077
Government Funding	-0.467	-0.309	-0.077			
Total Impact	9.117	5.973	1.444	9.118	5.974	1.443
Future Maintenance – Existing Routes						
Net Consumer Impact	0.004	0.008	0.004	0.004	0.008	0.004
Net Business Impact	0.005	0.009	0.005	0.005	0.009	0.005
Accident Costs	0.001	0.003	0.002	0.001	0.003	0.002
Fuel Carbon Emission Costs	0	0	0	0.000	0.000	0.000
Investment Costs	0.806	2.019	3.816	0.806	2.019	3.816
Indirect Tax Revenues	0	0	0	0.000	0.000	0.000
Government Funding	0.806	2.019	3.816			
Total Impact	0.816	2.039	3.826	0.816	2.039	3.827
Future Maintenance – New Route						
Net Consumer Impact	0.015	0.014	0.014	0.015	0.014	0.014
Net Business Impact	0.016	0.015	0.014	0.016	0.015	0.014
Accident Costs	0.005	0.004	0.004	0.005	0.004	0.004
Fuel Carbon Emission Costs	0	0	0	0.000	0.000	0.000
Investment Costs	2.294	2.166	2.329	2.294	2.166	2.329
Indirect Tax Revenues	0	0	0	0.000	0.000	0.000
Government Funding	2.294	2.166	2.329			
Total Impact	2.329	2.200	2.362	2.330	2.199	2.361

	Corridor Options					
	Red	Green	Blue			
During Construction						
Net Consumer Impact	4.739	3.121	0.767	4.739	3.121	0.767
Net Business Impact	4.468	2.958	0.731	4.468	2.958	0.731
Accident Costs	2.128	1.349	0.299	2.128	1.349	0.299
Fuel Carbon Emission Costs	0.168	0.112	0.028	0.168	0.112	0.028
Investment Costs	0	0	0	0.000	0.000	0.000
Indirect Tax Revenues	-0.560	-0.371	-0.092	-0.560	-0.371	-0.092
Government Funding	-0.560	-0.3708	-0.0924			
Total Impact	10.942	7.169	1.732	10.942	7.169	1.732
Future Maintenance – Existing Routes						
Net Consumer Impact	0.004	0.008	0.004	0.004	0.008	0.004
Net Business Impact	0.005	0.009	0.005	0.005	0.009	0.005
Accident Costs	0.001	0.003	0.002	0.001	0.003	0.002
Fuel Carbon Emission Costs	0	0	0	0.000	0.000	0.000
Investment Costs	0.806	2.019	3.816	0.806	2.019	3.816
Indirect Tax Revenues	0	0	0	0.000	0.000	0.000
Government Funding	0.806	2.019	3.816			
Total Impact	0.816	2.039	3.827	0.816	2.039	3.827
Future Maintenance – New Route						
Net Consumer Impact	0.015	0.014	0.014	0.015	0.014	0.014
Net Business Impact	0.016	0.015	0.014	0.016	0.015	0.014
Accident Costs	0.005	0.004	0.004	0.005	0.004	0.004
Fuel Carbon Emission Costs	0	0	0	0.000	0.000	0.000
Investment Costs	2.294	2.166	2.329	2.294	2.166	2.329
Indirect Tax Revenues	0	0	0	0.000	0.000	0.000
Government Funding	2.294	2.166	2.329			
Total Impact	2.330	2.199	2.361	2.330	2.199	2.361

	Corridor Options					
	Red	Green	Blue			
Overall Assessment (Net Present Value)						
Consumer Benefits	-2.989	-1.644	0.322			
Business Benefits	-2.719	-1.464	0.397			
Accident Benefits	-1.434	-0.786	0.090			
Fuel Carbon Emission Costs	-0.092	-0.045	0.025			
Government Funding Benefits	-1.799	-0.556	1.636			
Overall Impact	-5.435	-3.383	-0.802			
	-5.433	-3.383	-0.803			

	Corridor Options					
	Red	Green	Blue			
Overall Assessment (Net Present Value)						
Consumer Benefits	-3.779	-2.164	0.194			
Business Benefits	-3.464	-1.957	0.275			
Accident Benefits	-1.789	-1.011	0.040			
Fuel Carbon Emission Costs	-0.120	-0.064	0.020			
Government Funding Benefits	-1.892	-0.618	1.621			
Overall Impact	-7.259	-4.578	-1.091			
	-7.259	-4.578	-1.091			

	Corridor Options					
	Red	Green	Blue			
Present Value of Benefits During Construction	-9.585	-6.283	-1.52	-9.12	-5.97	-1.44
Present Value of Benefits During Future Maintenance	2.351	2.344	2.354	2.26	2.25	2.26
Present Value of Benefits	-7.234	-3.939	0.834	-6.86	-3.72	0.82
Present Value of Cost	-1.799	-0.556	1.636	-1.43	-0.34	1.62
Net Present Value	-5.435	-3.383	-0.802	-5.44	-3.38	-0.80

	Corridor Options					
	Red	Green	Blue			
Present Value of Benefits During Construction	-9.105	-5.143	0.573	-10.94	-7.17	-1.73
Present Value of Benefits During Future Maintenance	2.351	2.344	2.354	2.26	2.25	2.26
Present Value of Benefits	-9.151	-5.196	0.530	-8.68	-4.92	0.53
Present Value of Cost	-1.8924	-0.6178	1.6206	-1.43	-0.34	1.62
Net Present Value	-7.259	-4.578	-1.091	-7.26	-4.58	-1.09

MAINTENANCE DETAILS
DO-MINIMUM PAVEMENT MAINTENANCE PROFILE (QUADRO)

60-Year Maintenance Period

A82 Tarbet to Inveruglas

Job No.	Section		Year	Maintenance Profile		DMRB Costs/Durations		Traffic Management		Activity Details				
	NESA Nodes	Length (km)		Works Period	Activity	Works Cost (£/km)	Works Duration (7-hr Days/km)	Type	Duration	Works Cost (£k)	Duration of On-site Working			Weeks
										(7-hr Day)	(12-hr Day)	(24-hr Day)		
1	100 - 130	5.551	2020	Neutral	Thin Surfacing	55	4	Full Closure		305		13		2
2	100 - 130	5.551	2031	Neutral	Overlay	200	12	Full Closure		1,110		39		6
3	100 - 130	5.551	2042	Neutral	Thin Surfacing	55	4	Full Closure	12hrs per Day	305		13		2
4	100 - 130	5.551	2052	Neutral	Overlay	210	12	Full Closure	(19:00 - 07:00)	1,166		39		6
5	100 - 130	5.551	2062	Neutral	Thin Surfacing	55	4	Full Closure		305		13		2
6	100 - 130	5.551	2072	Neutral	Overlay	210	12	Full Closure		1,166		39		6

A82 Inveruglas to Pulpit

Job No.	Section		Year	Maintenance Profile		DMRB Costs/Durations		Traffic Management		Activity Details				
	NESA Nodes	Length (km)		Works Period	Activity	Works Cost (£/km)	Works Duration (7-hr Days/km)	Type	Duration	Works Cost (£k)	Duration of On-site Working			Weeks
										(7-hr Day)	(12-hr Day)	(24-hr Day)		
7	130 - 140	5.021	2020	Neutral	Thin Surfacing	55	4	Full Closure		276		12		2
8	130 - 140	5.021	2031	Neutral	Overlay	200	12	Full Closure		1,004		35		5
9	130 - 140	5.021	2042	Neutral	Thin Surfacing	55	4	Full Closure	12hrs per Day	276		12		2
10	130 - 140	5.021	2052	Neutral	Overlay	210	12	Full Closure	(19:00 - 07:00)	1,054		35		5
11	130 - 140	5.021	2062	Neutral	Thin Surfacing	55	4	Full Closure		276		12		2
12	130 - 140	5.021	2072	Neutral	Overlay	210	12	Full Closure		1,054		35		5

A82 Pulpit to North of Ardlui

Job No.	Section		Year	Maintenance Profile		DMRB Costs/Durations		Traffic Management		Activity Details				
	NESA Nodes	Length (km)		Works Period	Activity	Works Cost (£/km)	Works Duration (7-hr Days/km)	Type	Duration	Works Cost (£k)	Duration of On-site Working			Weeks
										(7-hr Day)	(12-hr Day)	(24-hr Day)		
13	145 - 175	3.202	2020	Neutral	Thin Surfacing	55	4	Full Closure		176		7		1
14	145 - 175	3.202	2031	Neutral	Overlay	200	12	Full Closure		640		22		3
15	145 - 175	3.202	2042	Neutral	Thin Surfacing	55	4	Full Closure	12hrs per Day	176		7		1
16	145 - 175	3.202	2052	Neutral	Overlay	210	12	Full Closure	(19:00 - 07:00)	672		22		3
17	145 - 175	3.202	2062	Neutral	Thin Surfacing	55	4	Full Closure		176		7		1
18	145 - 175	3.202	2072	Neutral	Overlay	210	12	Full Closure		672		22		3

A82 North of Ardlui to Inverarnan

Job No.	Section		Year	Maintenance Profile		DMRB Costs/Durations		Traffic Management		Activity Details				
	NESA Nodes	Length (km)		Works Period	Activity	Works Cost (£/km)	Works Duration (7-hr Days/km)	Type	Duration	Works Cost (£k)	Duration of On-site Working			Weeks
										(7-hr Day)	(12-hr Day)	(24-hr Day)		
19	175 - 205	2.749	2020	Neutral	Thin Surfacing	55	4	Full Closure		151		6		1
20	175 - 205	2.749	2031	Neutral	Overlay	200	12	Full Closure		550		19		3
21	175 - 205	2.749	2042	Neutral	Thin Surfacing	55	4	Full Closure	12hrs per Day	151		6		1
22	175 - 205	2.749	2052	Neutral	Overlay	210	12	Full Closure	(19:00 - 07:00)	577		19		3
23	175 - 205	2.749	2062	Neutral	Thin Surfacing	55	4	Full Closure		151		6		1
24	175 - 205	2.749	2072	Neutral	Overlay	210	12	Full Closure		577		19		3

A83 Tarbet to 30/60mph Speed Limit

Job No.	Section		Year	Maintenance Profile		DMRB Costs/Durations		Traffic Management		Activity Details				
	NESA Nodes	Length (km)		Works Period	Activity	Works Cost (£/km)	Works Duration (7-hr Days/km)	Type	Duration	Works Cost (£k)	Duration of On-site Working			Weeks
										(7-hr Day)	(12-hr Day)	(24-hr Day)		
25	100 - 305	1.002	2020	Neutral	Thin Surfacing	55	4	Shuttle working		55		2		0
26	100 - 305	1.002	2031	Neutral	Overlay	200	12	Shuttle working		200		7		1
27	100 - 305	1.002	2042	Neutral	Thin Surfacing	55	4	Shuttle working	12hrs per Day	55		2		0
28	100 - 305	1.002	2052	Neutral	Overlay	210	12	Shuttle working	(19:00 - 07:00)	210		7		1
29	100 - 305	1.002	2062	Neutral	Thin Surfacing	55	4	Shuttle working		55		2		0
30	100 - 305	1.002	2072	Neutral	Overlay	210	12	Shuttle working		210		7		1

A83 60mph section

Job No.	Section		Year	Maintenance Profile		DMRB Costs/Durations		Traffic Management		Activity Details				
	NESA Nodes	Length (km)		Works Period	Activity	Works Cost (£/km)	Works Duration (7-hr Days/km)	Type	Duration	Works Cost (£k)	Duration of On-site Working			Weeks
										(7-hr Day)	(12-hr Day)	(24-hr Day)		
31	305 - 315	1.147	2020	Neutral	Thin Surfacing	55	4	Shuttle working		63		3		0
32	305 - 315	1.147	2031	Neutral	Overlay	200	12	Shuttle working		229		8		1
33	305 - 315	1.147	2042	Neutral	Thin Surfacing	55	4	Shuttle working	12hrs per Day	63		3		0
34	305 - 315	1.147	2052	Neutral	Overlay	210	12	Shuttle working	(19:00 - 07:00)	241		8		1
35	305 - 315	1.147	2062	Neutral	Thin Surfacing	55	4	Shuttle working		63		3		0
36	305 - 315	1.147	2072	Neutral	Overlay	210	12	Shuttle working		241		8		1

A83 Arrochar

Job No.	Section		Year	Maintenance Profile		DMRB Costs/Durations		Traffic Management		Activity Details				
	NESA Nodes	Length (km)		Works Period	Activity	Works Cost (£/km)	Works Duration (7-hr Days/km)	Type	Duration	Works Cost (£k)	Duration of On-site Working			Weeks
										(7-hr Day)	(12-hr Day)	(24-hr Day)		
37	315 - 500	1.428	2020	Neutral	Thin Surfacing	55	4	Shuttle working		79		3		0
38	315 - 500	1.428	2031	Neutral	Overlay	200	12	Shuttle working		286		10		1
39	315 - 500	1.428	2042	Neutral	Thin Surfacing	55	4	Shuttle working	12hrs per Day	79		3		0
40	315 - 500	1.428	2052	Neutral	Overlay	210	12	Shuttle working	(19:00 - 07:00)	300		10		1
41	315 - 500	1.428	2062	Neutral	Thin Surfacing	55	4	Shuttle working		79		3		0
42	315 - 500	1.428	2072	Neutral	Overlay	210	12	Shuttle working		300		10		1

NOTES:

All costs are in average 2002 prices as defined by QUADRO.
Maintenance profile, costs and durations derived from DMRB 14.1.2.4 Table 4/1.