Attachment One: Ōtaki to north of Levin highway project Tolling Assessment Summary

	GATE ONE – LEGISLA	TIVE REQUIREMENTS AND PRACTICALITY TEST		
The road is new or a significant upgrade	A feasible free alternative route is available	Not less than 10,000 vehicles are likely to travel the road per day	Tolling infrastructure effective to the project requ	
Yes	Yes	Yes		
YesYesÖtaki to north of Levin (Ö2NL) is a new 24km four lane (two lanes in each direction), median divided highway between Taylors Road north of Ötaki and north of Taitoko/Levin, where it connects back into the existing SH1. It is currently anticipated to open around 2030, and will therefore meet the definition of a new road.Only the section between Taylors Road in and Tararua Road Interchange is propose toled with a single toll point required (id below as mainline gantries at C). The pro 		An untolled O2NL is anticipated to have between 19,700 and 15,200 vehicles per day in 2029 on the southern and northern sections respectively. The vehicle numbers are based on non-risk adjusted, 75th percentile land use assumption flows. This ignores the diversion impacts of potential reduced speeds and other changes to the free route to be made as part of revocation which will likely have the impact of increasing usage of the tolled route.	 ō2NL is not currently anticipation Deliver the Order in C Establish operational f Configure the support Embed appropriate sufficient Tolling implementation can be the simplicity of the contracture forward planning, it is anticipation Tolling infrastructure is limited installation section 9(2)(j) 	
This is a legislative requirement under Section 46 of the <i>Land Transport Management Act, 2003.</i>	This is a legislative requirement under Section 46 of the <i>Land Transport Management Act, 2003.</i>	This is a test that may be indicative of the likely viability of the toll road, but may be taken into consideration with other criteria.	This is a test to ensure that tollin	
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re can be installed in a manner that is costect and reasonable; And within time periods quired by the LTMA, 2003

Yes

bated to open until 2030. If tolled, this is ample time

Council prior to road opening; al tolling on the road; orting back office system; support for customers and staff

be added to the Ō2NL contract as a variation. Due to ctual arrangements, the timelines, and associated ipated financial impact to the Project resulting from

ited to one gantry with the costs for purchase and

ing can physically be installed on the road in way that is:

r onerous to the project in terms of delivery and time onstraints of the requirements of the *Land Transport* , 2003.

¹ Infrastructure includes roadside technology, integration, civils based on two roadside poles or small gantry spanning four lanes.

The toll rate is reasonable and does not result in a traffic volume change that unduly impact the wider network Yes Toll rate A single gantry is recommended to be placed between Taylors Road Interchange and Tararua Interchange (tolled section, C above). The toll prices modelled and proposed are \$2.50 for light vehicles and \$5.00 for heavy vehicles (\$2022) and would be the same rates 24-hours a day. Consultation would be based on toll rates in 2024 dollars: \$2.70 and \$5.40 respectively. Network impacts. The proposed tolling strategy diverts a proportion of traffic from Õ2NL back to the existing SH1 and SH57 as compared to the no toll scenario. Without changes to the network for revocation, the forecast traffic volumes for a tolled and untolled scenario are as follows: YEAR 2039 VOLUMES SH1 SOUTH OF LEVIN Do Minimum 27,500 N/A Untolled 6,400 24,300 Tolled 15,500 13,600 The proposed toll prices were identified by comparing a range of gantry options and toll prices to find the tolling scheme that optimises the trade-off between revenue and acceptable levels of diversion.		Tolling infrastructure costs no more than 20% of anticipated revenue		Estimated tolling revenue will result in a meaningful contributionYesConstruction and associated activities of 02NL is Crown funded as part of a programme with a fixed funding envelop. 		Tolling delivers value for money and public good New Zealanders and the Transport Agency						
		Yes				YesApplication of toll revenueThe net revenue would make a meaningful contribution towathe costs of ongoing maintenance and operations as well as implementation and construction costs.Social cost shiftThe Do minimum crash cost is calculated to be 12.5 Deaths Serious injury (DSI's) or \$14.9M of crash costs in 2039.An untolled ō2NL with the SIP improvements is anticipated to result in a DSI of 7.5 per annum with a crash cost of \$7.7m of 2039). The introduction of tolls is anticipated to result in 9.DSI's per annum, corresponding a crash cost of \$10.0m per annum in 2039.Value for MoneyThe table below summarises the trip charges and revenue collection per trip at the proposed toll prices, in 2024 dollarTRIP TOLL RATE (\$2024)GSTTRANSACTIONTRIP TOLL RATE 						
		The single toll point is estimated at section 9(2)(j) and the proportion of tolling infrastructure is less than 20% of anticipated toll revenue (NPV). The revenue calculation was based on a 35-year tolling period. It is anticipated to take 3 years to pay off the cost of the gantry using the payback method of calculation. ESTIMATED REVENUE % INFRASTRUCTURE (NPV - \$2022) Section 9(2)(j)										
the existing SH1 for the AM peak hour in the northbound direction are expected to stay at 2029 levels, with or without the toll. This is a test to identify any potential negative impacts caused by the diversion rate associated with charging a toll. There are mitigations that may reduce the diversion rate, however these are not considered within this test.					vestment of tolling to the anticipated	This is a test to investment into result in a posit return will resul the road costs t 'meaningful': w considered to b roads in New Ze	tolling infra ive return, a t in a contril hat is consid here 'meanin e in-line witl	Istructure will nd that this bution towards dered ngful' is	will be rec • So • Cl m • Tl	eiving value ocial costs s larifying how oney would	for money in term hift in terms of saf v the money will be be available for re on of toll revenue c	fety; e applied (and how

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GATE TWO - B: POLICY AND PROJECT ALIGNMENT TESTS

Tolling does not significantly or unduly red	or additional dis-benefits.	Tolling is not contrary			
Tolling supports or	nes	Tolling supports or has minimal			
Enhance safety of travel on the state highway netwo Overall tolling Ō2NL is expected to deliver \$4.4M to \$4. comparison to the Do Minimum scenario.		t saving (includ	ding benefits of	the SIP improvements), in The scree	<u>nomic Growth and Productivity:</u> Ō2NL proposal is expected to provide new roading ca enline south of Levin across both the new route and e ease by approximately 1000vpd in 2029, 1,800vpd in
Compared to the Do Minimum	2029	2039	2049	rates	s. Therefore, the introduction of tolling is anticipated t
Õ2NL no toll & SIP - Discounted annual crash costs	-\$7.3m	-\$7.2m	-\$5.9m	ecor	nomic growth. By comparison, induced traffic is aroun
02NL toll & SIP - Discounted annual crash costs	-\$4.4m	-\$4.9m	-\$4.6m		eased Maintenance and Resilience
ō2NL no toll & SIP - DSI per annum	-5.2	-5.0	-3.8		introduction of tolling will have a negligible impact or the resilience benefits of 02NL as the order in counc
ō2NL toll & SIP - DSI per annum	-3.0	-3.4	-3.0		umstances where the free route is unavailable due to c
circumstances where the free route is unavailable due to Provide appropriate connections that integrate the so Õ2NL proposal will provide appropriate connections that Tolling will not affect the proposed connections to the operation Enable mode choice for journeys between local common Tolling does not affect the provision of a north-south we the private car for short journeys. Support inter- and intra-regional growth and product highway network Tolling does not preclude economic activity or planned are modelled to continue to utilise the road when tolled were local/regional PT services to be enhanced as buse	tintegrate th road network. munities by p alking and cy tivity throug growth in the Tolling will	e state highwa providing a wa cling facility ar <u>h improved m</u> e area. A high p not impact or p	y and local road alking and cycl nd could further ovement of pe percentage of fr	erve urban areas network to serve urban areas. Network to serve urban areas. Network to serve urban areas. Network to serve urban areas. Valu The expl mair cont ple and freight on the state ight movements which utilise Ō2NL	er numbers of crashes. With tolling, there will be less t ntly lower when compared to an untolled option. <u>e for Money:</u> GPS 2024 places an expectation that the potential for ored. Tolling has been specifically identified for consi- ntain all new roads. At the recommended toll rates, th cribution to the overall costs of the project.
This is a test to identify any impact tolling may have on	the original i	ntent of the ro	ad project.		is a test to identify any impact or alignment tolling m ement for Land Transport.
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ry to the GPS priorities

al impact against GPS priorities

g capacity and induce additional trips. Across a d existing SH, the total traffic volumes are predicted to d in 2039 and 3,600 in 2049, with the proposed toll ed to enhance corridor productivity and support ound 2,000vph in 2029 with no toll.

t on the standardised maintenance schedule. It does not buncil would allow for free access to be provided in to closures.

SI's and crash costs as it will be a higher standard, and route. Both tolled and untolled options will result in ss traffic using Ō2NL and so the crash benefits are

for alternative funding and financing options should be onsideration to provide part-funding to construct and s, the Ō2NL net toll revenue will make a positive

g may have with the current *Government Policy*