

# Hastings Rail/Port Interface Facility preliminary cost estimate

PREPARED BY: R. Charles					PROJECT: Port of Hastings			
DATE: 28/1/2014					Rail-Port Interchange Facility			
PLANS: Sketch track layout					Construction Costs			
Preliminary longitudinal section								
SCOPE: R. Bartlett					ORDER OF COST ESTIMATE			
DESCRIPTION	UNIT	QUANTITY	RATE	ITEM COST	CONTINGENCY		TOTAL ITEM COST	COMMENTS
					%	\$		
<b>PRELIMINARIES</b>								
Mobilisation	item	1	100000	100000	30%	30000	\$130,000	Nominal allowance
							\$130,000	
<b>SERVICES</b>								
New	item	1	500000	500000	30%	150000	\$650,000	Nominal sum for provision of power, water, etc.
Existing	item	1	200000	200000	30%	60000	\$260,000	Nominal sum for unspecified alteration/relocation of existing services, e.g. power, water, gas, etc.
							\$910,000	
<b>EARTHWORKS</b>								
Site Preparation	sqm	995000	0.5	497500	30%	149250	\$646,750	Clear site of vegetation; cart away.
Prepare Formation	cubm	1492500	30	44775000	30%	13432500	\$58,207,500	Excavation and/or filling to assumed level.
							\$58,854,250	
<b>TRACKWORK</b>								
Formation Capping	sqm.	337050	15	5055750	30%	1516725	\$6,572,475	150mm. crushed rock layer in areas of new track.
New Tracks	metre	48150	1200	57780000	30%	17334000	\$75,114,000	
Standard gauge	metre	11170	950	10611500	30%	3183450	\$13,794,950	
Crossingwork								
Standard gauge turnouts	no	16	350000	5600000	30%	1680000	\$7,280,000	
AN turnouts	no	66	400000	26400000	30%	7920000	\$34,320,000	
Roll out protection	no	4	25000	100000	30%	30000	\$130,000	Catch points
Buffer stops	no	8	50000	400000	30%	120000	\$520,000	
Track Drainage	item	1	6000000	6000000	30%	1800000	\$7,800,000	
Signals								
Signalling	item	1	25000000	25000000	30%	7500000	\$32,500,000	Nominal sum.
							\$178,031,425	
<b>TERMINAL FACILITIES</b>								
<b>Roads</b>								
Access road	metre	200	600	120000	30%	36000	\$156,000	Nominal allowance
Site roads	metre	5500	400	2200000	30%	660000	\$2,860,000	Nominal allowance
<b>Wagon Repair</b>	item	1	10000000	10000000	30%	3000000	\$13,000,000	Nominal allowance for unspecified "small" facility.
<b>Fuel Storage/fuel point</b>	item	1	4000000	4000000	30%	1200000	\$5,200,000	Nominal allowance
<b>Turntable</b>	item	1	1000000	1000000	30%	300000	\$1,300,000	Nominal allowance
<b>Staff Accommodation</b>	sqm	600	2500	1500000	30%	450000	\$1,950,000	Nominal allowance
<b>Car Park</b>	spaces	30	4000	120000	30%	36000	\$156,000	Nominal allowance
<b>Fence</b>								
Weldmesh security fence	metre	10000	250	2500000	30%	750000	\$3,250,000	Nominal allowance
<b>Paths</b>								
FCR	sqm	36000	15	540000	30%	162000	\$702,000	Nominal allowance
<b>Lighting</b>								
Pole mounted security lighting	item	1	2500000	2500000	30%	750000	\$3,250,000	Nominal allowance
<b>Miscellaneous</b>	item	1	500000	500000	30%	150000	\$650,000	Nominal allowance for unspecified storage facilities, minor buildings, etc.
							\$32,474,000	
<b>STRUCTURAL WORKS</b>								
<b>Bridges/Grade Separations</b>								
Rail Flyover	item	1	10000000	10000000	30%	3000000	\$13,000,000	Rail flyover crossing WPH southbound carriageway.
Bungower Road	item	1	9000000	9000000	30%	2700000	\$11,700,000	Nominal sum for extra length of bridge to span over rail tracks.
<b>Minor Structures</b>	item	1	500000	500000	30%	150000	\$650,000	Nominal sum for unspecified retaining walls, culverts, creek crossing, etc.
							\$25,350,000	
<b>MISCELLANEOUS</b>								
Landscaping/Furniture/Urban Design	item	1	500000	500000	30%	150000	\$650,000	Nominal sum
Environmental	item	1	500000	500000	30%	150000	\$650,000	Nominal sum for unspecified environmental management during construction; remediation; vegetation offsets; etc.
Track Occupations	no	2	150000	300000	30%	90000	\$390,000	Weekend shutdown including bussing, etc.
							\$1,690,000	
<b>TOTAL CONSTRUCTION COST</b>				228799750	30%	68639925	\$297,439,675	
Contractor Preliminaries, Overheads & Margin							\$68,639,925	30% (Nominal)
<b>TOTAL CONSTRUCTION COST INCL PRELIMS, OVERHEADS &amp; MARGIN</b>							\$366,079,600	
Land Acquisition								No allowance
<b>TOTAL CONSTRUCTION COST INCL LAND ACQUISITION</b>							\$366,079,600	
Design							\$36,607,960	10% (Nominal)
<b>TOTAL CONSTRUCTION COST INCL DESIGN</b>							\$402,687,560	
Principal Supplied Project Insurance							\$2,822,474	0.77% (Nominal)
DOT Project Management (major role)							\$36,607,960	10% (Nominal)
Lessee/Operator PM (minor role)							\$5,491,194	1.5% (Nominal)
Other Authority/Agency Consultee charges							\$5,491,194	1.5% (Nominal)
Risk							\$88,957,343	20% (Nominal)
<b>TOTAL DIRECT COSTS</b>							\$542,057,725	
DOT Corporate Levy							\$5,420,577	1%
DOT Project Development Levy							\$21,682,309	4%
<b>TOTAL PROJECT COST (\$REAL)</b>		2014					\$569,160,611	
Escalation								
<b>TEI</b>		2014					\$569,160,611	

In May 2016 the Special Minister of State asked Infrastructure Victoria to provide advice on the future capacity of Victoria's commercial ports. Specifically, the Minister has asked for advice on when the need for a second container port is likely to arise and which variables may alter this timeline. The Minister has also asked for advice on where a second container port would ideally be located and under what conditions, including the suitability of, and barriers to investing in, sites at the Port of Hastings and the Bay West location.

In undertaking this task, Infrastructure Victoria reviewed work that was completed as part of the Port of Hastings development project before it was cancelled in 2014. This document forms part of the initial work undertaken for the proposed port development at Hastings. Infrastructure Victoria considers that much of the previous Hastings work, although preliminary in nature, is relevant and suitable for informing a strategic assessment. Therefore, Infrastructure Victoria has requested that preliminary and draft reports previously commissioned for the development project be reissued to form part of the evidence base on which Infrastructure Victoria will use in providing the Minister with advice.

The opinions, conclusions and any recommendations in this document are based on conditions encountered and information reviewed at the date of preparation of the document and for the purposes of the Port of Hastings Development Project.

Infrastructure Victoria and its consultants have used the information contained in these reports as an input but have not wholly relied on all the information presented in these reports.