

CBD BUS TUNNEL

FOR

AUCKLAND TRANSPORT

AUCKLAND

CONCEPT ESTIMATE

ITEM	DESCRIPTION	BASE ESTIMATE	CONTINGENCY	FUNDING RISK
			40%	25%
A	Nett project property cost	excl	excl	excl
	Investigation and reporting:			
	- Consultancy fees (2%)	42,724,000		
	- Client managed costs (2%)	42,724,000		
B	Total investigation and reporting	85,448,000	34,179,000	29,907,000
	Design and project documentation:			
	- Consultancy fees (6%)	128,170,000		
	- Client managed costs (2%)	42,724,000		
C	Total design and project documentation	170,894,000	68,358,000	59,813,000
	Construction			
	MSQA			
	- Consultancy fees (4%)	85,447,000		
	- Client managed costs (2%)	42,724,000		
	- Consent monitoring fees (3%)	64,085,000		
	Sub-total base MSQA	192,256,000		
	Physical works			
	Length	Rate\$		
1	Modifications to Beaumont Street including signal upgrade	1	5,000,000	5,000,000
2	Relocation of 110kVA in Fanshawe	1	50,000,000	50,000,000
3	Fanshawe Street southbound approach trench	100	63,300	6,330,000
4	Fanshawe Street northbound approach trench	100	63,300	6,330,000
5	Daldy Street approach trench	100	66,000	6,600,000
6	Signals to Daldy Street	1	200,000	200,000
7	Southbound into Victoria Park Station	300	112,500	33,750,000
8	Northbound out off Victoria Park Station	280	112,500	31,500,000
9	Bus turnaround facility	1	5,830,200	5,831,000
10	Entry into underground layover	50	128,900	6,445,000
11	Underground layover	1	32,506,300	32,507,000
12	Victoria Park Station (1.75 x Costs from CRL Aotea Station)	1	241,696,700	241,697,000
13	Exit from Victoria Park Station	200	135,500	27,100,000
14	Mined tunnel launch and reception shafts (Costs from CRL)	1	125,980,000	125,980,000
15	Victoria Park Station to Aotea Square station tunnel	370	156,400	57,868,000
16	Aotea Station (1.75 x Costs from CRL Karangahape Road Station)	1	239,703,600	239,704,000
17	Modifications to Aotea CRL station to connect into Busway station	1	75,000,000	75,000,000
18	Aotea station to Learning Quarter Station tunnel	340	156,400	53,176,000
19	Learning Quarter Station (1.75 x Costs from CRL Aotea Station)	1	241,696,700	241,697,000
20	Make good Wellesley Street (added to above)	1	18,573,000	18,573,000
21	Learning Quarter Station to turnaround facility	70	135,500	9,485,000
22	Bus turnaround facility	1	5,830,200	5,831,000
23	Westbound onto Symonds Street	400	135,500	54,200,000
24	Symonds Street Approach Trench	100	67,200	6,720,000
25	Modifications to Symonds Street including signal upgrade	1	3,000,000	3,000,000
26	Eastbound onto SH16	200	36,000	7,200,000
27	Modifications to SH16 on-ramp	1	1,000,000	1,000,000
28	Signals to on-ramp	1	200,000	200,000
29	Modifications to motorway network (Costs from waterview GNRI)	1	130,000,000	130,000,000
30	At grade layover (15 bus)	1	2,910,000	2,910,000
31	Modifications to Alton Road	1	2,000,000	2,000,000
32	At grade layover (40 bus)	1	4,880,000	4,880,000
33	Traffic management (2%)	1		29,855,000
34	Preliminary and General (22%)			334,966,000
35	Contractors Margin (15%)			278,631,000
	Sub-total base physical works			2,136,166,000
D	Total construction	2,328,422,000	931,369,000	814,948,000
E	Project base estimate (A+B+C+D)	2,584,764,000		
F	Contingency (Assessed/Analysed)	(A+B+C+D)	1,033,906,000	
G	Project expected estimate	(E+F)	3,618,670,000	
	Project property cost expected estimate		0	
	Investigation and reporting expected estimate		119,627,000	
	Design and project documentation expected estimate		239,252,000	
	Construction expected estimate		3,259,791,000	
H	Funding risk (Assessed/Analysed)		(A+B+C+D)	904,668,000
I	95th percentile Project Estimate		(G+H)	4,523,338,000
	Project property cost 95th percentile estimate			0
	Investigation and reporting 95th percentile estimate			149,534,000
	Design and project documentation 95th percentile estimate			299,065,000
	Construction 95th percentile estimate			4,074,739,000
Date of estimate : March 2016		Cost index (Qtr/Year)		Mar-16
Estimate prepared by : Les Lewer		Signed		
Estimate internal peer review by : Micheal Kwok		Signed		
Estimate external peer review by :		Signed		
Estimate accepted by the NZTA		Signed		

Note: (1) These estimates are exclusive of escalation and GST.