

	Opus Estimate	WTP Base	P50 (30% contingency)
Roading	\$ 5,057,400	\$ 9,428,507	\$ 12,257,059
3 - Waters	\$ 7,367,977	\$ 8,702,029	\$ 11,312,638
3 - Waters inc Country Club Share	\$ 9,067,977	\$ 10,402,029	\$ 13,012,638
<b>Total</b>	<b>\$ 14,125,377</b>	<b>\$ 19,830,536</b>	<b>\$ 25,269,697</b>

	Opus Estimate	WTP Base	P50 (30% contingency)
Transport			
Property Costs	\$ -	\$ -	\$ -
Project Development	\$ -	\$ 473,797	\$ 615,936
Pre-Implementation phase	\$ -	\$ 599,646	\$ 779,539
Implementation phase fees	\$ -	\$ 359,787	\$ 467,724
<i>Roundabout</i>	\$ 4,102,400	\$ 4,993,112	\$ 6,491,046
<i>Bus Stop</i>	\$ -	\$ 1,547,638	\$ 2,011,930
<i>Underpass</i>	\$ 955,000	\$ 1,454,526	\$ 1,890,884
Physical works	\$ 5,057,400	\$ 7,995,276	\$ 10,393,859
<b>Total</b>	<b>\$ 5,057,400</b>	<b>\$ 9,428,507</b>	<b>\$ 12,257,059</b>

### 3 - WATERS

Property Costs	\$ -	\$ -	\$ -
Project Development	\$ -	\$ 296,744	\$ 385,768
Pre-Implementation phase	\$ -	\$ 630,582	\$ 819,756
Implementation phase fees	\$ -	\$ 356,093	\$ 462,921
<i>Water Supply</i>	\$ 2,973,583	\$ 2,811,969	\$ 3,655,560
<i>Wastewater</i>	\$ 3,651,366	\$ 3,729,247	\$ 4,848,021
<i>Stormwater</i>	\$ 743,028	\$ 877,394	\$ 1,140,612
Physical works	\$ 7,367,977	\$ 7,418,610	\$ 9,644,193
Country Club Portion of Stormwater	\$ 1,700,000	\$ 1,700,000	\$ 1,700,000
<b>Total</b>	<b>\$ 9,067,977</b>	<b>\$ 10,402,029</b>	<b>\$ 13,012,638</b>

### ALL ACTIVITIES

Property Costs	\$ -	\$ -	\$ -
Project Development	\$ -	\$ 770,541	\$ 1,001,704
Pre-Implementation phase	\$ -	\$ 1,230,228	\$ 1,599,296
Implementation phase fees	\$ -	\$ 715,881	\$ 930,645
Physical works	\$ 12,425,377	\$ 15,413,886	\$ 20,038,052
Country Club Portion of Stormwater	\$ 1,700,000	\$ 1,700,000	\$ 1,700,000
<b>Total</b>	<b>\$ 14,125,377</b>	<b>\$ 19,830,536</b>	<b>\$ 25,269,697</b>

# Project Estimate - Total

# DBE

Project Name: Ladies Mile

Detailed Business Case Estimate

Item	Description	Base Estimate	30% Contingency (P <sub>50</sub> )	Funding Risk Contingency (P <sub>95</sub> )	
<b>A</b>	<b>Nett Project Property Cost</b>	\$ -	\$ -	\$ -	
<b>B</b>	<b>Project Development Phase</b>				
	- Consultancy Fees	\$ 462,417	\$ 138,725	\$ -	
	- Client Managed Costs	\$ 308,125	\$ 92,437	\$ -	
	<b>Total Project Development</b>	\$ 770,541	\$ 231,162	\$ -	
<b>C</b>	<b>Pre-implementation Phase</b>				
	- Consultancy Fees	\$ 1,076,089	\$ 322,827	\$ -	
	- Client Managed Costs	\$ 154,139	\$ 46,242	\$ -	
	<b>Total Pre-implementation</b>	\$ 1,230,228	\$ 369,068	\$ -	
<b>D</b>	<b>Implementation Phase</b>				
	<b>Implementation Fees</b>				
	- Consultancy Fees	\$ 407,603	\$ 122,281	\$ -	
	- Client Managed Costs	\$ 154,139	\$ 46,242	\$ -	
	- Construction Monitoring Fees	\$ 154,139	\$ 46,242	\$ -	
		<b>Sub Total Base Implementation Fees</b>	\$ 715,881	\$ 214,764	\$ -
	<b>Physical Works</b>				
	1 Risks	\$ -	\$ -	\$ -	
	2 Earthworks	\$ 948,445	\$ 284,534	\$ -	
	3 Tanks and Reservoirs	\$ 1,248,400	\$ 374,520	\$ -	
	4 Stormwater Drainage	\$ 2,109,500	\$ 122,850	\$ -	
	5 Underpasses, pavements & surfacing	\$ 3,747,784	\$ 1,124,335	\$ -	
	6 Conveyance Pipelines	\$ 3,914,150	\$ 1,174,245	\$ -	
	7 Retaining Walls	\$ -	\$ -	\$ -	
8 Traffic Services	\$ 1,439,572	\$ 431,872	\$ -		
9 Service Relocations	\$ 295,000	\$ 88,500	\$ -		
10 Landscaping	\$ 208,713	\$ 62,614	\$ -		
11 Traffic Management and Temporary Works	\$ 148,000	\$ 44,400	\$ -		
12 Preliminary and General	\$ 3,054,322	\$ 916,297	\$ -		
13 Extraordinary Construction Costs	\$ -	\$ -	\$ -		
	<b>Sub Total Base Physical works</b>	\$ 17,113,886	\$ 4,624,166	\$ -	
	<b>Total for Implementation Phase</b>	\$ 17,829,767	\$ 4,838,930	\$ -	
<b>E</b>	<b>Project Base Estimate (A+B+C+D)</b>	\$ 19,830,536			
<b>F</b>	<b>Contingency (Assessed/Analysed) (A+B+C+D)</b>		\$ 5,439,161		
<b>G</b>	<b>Project Expected Estimate (P<sub>50</sub>) (E+F)</b>		\$ 25,269,697		
	Nett Project Property Cost Expected Estimate		\$ -		
	Project Development Phase Expected Estimate		\$ 1,001,704		
	Pre-implementation Phase Expected Estimate		\$ 1,599,296		
	Implementation Phase Expected Estimate		\$ 22,668,697		
<b>H</b>	<b>Funding Risk Contingency (Assessed/Analysed) (A+B+C+D)</b>			\$ -	
<b>I</b>	<b>95th percentile Project Estimate (G+H)</b>			\$ 25,269,697	
	Nett Project Property Cost 95th percentile Estimate			\$ -	
	Project Development Phase 95th percentile Estimate			\$ 1,001,704	
	Pre-implementation Phase 95th percentile Estimate			\$ 1,599,296	
	Implementation Phase 95th percentile Estimate			\$ 22,668,697	
<b>Date of Estimate</b>	<b>June 2018</b>	<b>Cost Index (Qtr/Year) 1st 28</b>			
<b>Estimate prepared by</b>	<b>M J Revis ( WTPi)</b>	<b>Signed</b>			
<b>Estimate internal peer review by</b>	<b>H A McCondach (WTPi)</b>	<b>Signed</b>			
<b>Estimate external peer review by</b>		<b>Signed</b>			
<b>Estimate accepted by NZTA</b>		<b>Signed</b>			

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

# Project Estimate - 3 Waters

# DBE

Project Name: Ladies Mile

Detailed Business Case Estimate

Item	Description	Base Estimate	30% Contingency (P <sub>50</sub> )	Funding Risk Contingency (P <sub>95</sub> )	
<b>A</b>	<b>Nett Project Property Cost</b>	\$ -			
<b>B</b>	<b>Project Development Phase</b>				
	- Consultancy Fees	\$ 222,558	\$ 66,767		
	- Client Managed Costs	\$ 74,186	\$ 22,256		
	<b>Total Project Development</b>	\$ 296,744	\$ 89,023		
<b>C</b>	<b>Pre-implementation Phase</b>				
	- Consultancy Fees	\$ 556,396	\$ 166,919		
	- Client Managed Costs	\$ 74,186	\$ 22,256		
	<b>Total Pre-implementation</b>	\$ 630,582	\$ 189,175		
<b>D</b>	<b>Implementation Phase</b>				
	<b>Implementation Fees</b>				
	- Consultancy Fees	\$ 207,721	\$ 62,316		
	- Client Managed Costs	\$ 74,186	\$ 22,256		
	- Construction Monitoring Fees	\$ 74,186	\$ 22,256		
		<b>Sub Total Base Implementation Fees</b>	\$ 356,093	\$ 106,828	
	<b>Physical Works</b>				
	1 Risks	\$ -	\$ -		
	2 Earthworks	\$ 244,600	\$ 73,380		
	3 Tanks and Reservoirs	\$ 1,248,400	\$ 374,520		
	4 Stormwater Drainage	\$ 1,700,000	\$ -		
	5 Underpasses, pavements & surfacing	\$ -	\$ -		
	6 Conveyance Pipelines	\$ 3,914,150	\$ 1,174,245		
7 Retaining Walls	\$ -	\$ -			
8 Traffic Services	\$ -	\$ -			
9 Service Relocations	\$ -	\$ -			
10 Landscaping	\$ -	\$ -			
11 Traffic Management and Temporary Works	\$ -	\$ -			
12 Preliminary and General	\$ 2,011,460	\$ 603,438			
13 Extraordinary Construction Costs	\$ -	\$ -			
	<b>Sub Total Base Physical works</b>	\$ 9,118,610	\$ 2,225,583	\$ -	
	<b>Total for Implementation Phase</b>	\$ 9,474,703	\$ 2,332,411	\$ -	
<b>E</b>	<b>Project Base Estimate (A+B+C+D)</b>	\$ 10,402,029			
<b>F</b>	<b>Contingency (Assessed/Analysed) (A+B+C+D)</b>		\$ 2,610,609		
<b>G</b>	<b>Project Expected Estimate (P<sub>50</sub>) (E+F)</b>		\$ 13,012,638		
	Nett Project Property Cost Expected Estimate		\$ -		
	Project Development Phase Expected Estimate		\$ 385,768		
	Pre-implementation Phase Expected Estimate		\$ 819,756		
	Implementation Phase Expected Estimate		\$ 11,807,114		
<b>H</b>	<b>Funding Risk Contingency (Assessed/Analysed) (A+B+C+D)</b>			\$ -	
<b>I</b>	<b>95th percentile Project Estimate (G+H)</b>			\$ 13,012,638	
	Nett Project Property Cost 95th percentile Estimate			\$ -	
	Project Development Phase 95th percentile Estimate			\$ 385,768	
	Pre-implementation Phase 95th percentile Estimate			\$ 819,756	
	Implementation Phase 95th percentile Estimate			\$ 11,807,114	
<b>Date of Estimate</b>	<b>June 2018</b>	<b>Cost Index (Qtr/Year) 1st 28</b>			
<b>Estimate prepared by</b>	<b>M J Revis ( WTPi)</b>	<b>Signed</b>			
<b>Estimate internal peer review by</b>	<b>H A McCondach (WTPi)</b>	<b>Signed</b>			
<b>Estimate external peer review by</b>		<b>Signed</b>			
<b>Estimate accepted by NZTA</b>		<b>Signed</b>			

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

		Opus Estimate			WTP Review			Contingency
		Base			Base			Base + Contingency
<b>PROPERTY COSTS</b>				\$ -			\$ -	\$ -
Purchase of land				\$ -			\$ -	\$ -
Internal and legal costs				\$ -			\$ -	\$ -
<b>PROJECT DEVELOPMENT PHASE</b>							\$ 296,744	\$ 385,768
- Consultancy Fees						3.0%	\$ 222,558	\$ 289,326
- Client Managed Costs						1.0%	\$ 74,186	\$ 96,442
<b>PRE-IMPLEMENTATION PHASE</b>							\$ 630,582	\$ 819,756
- Consultancy Fees						7.5%	\$ 556,396	\$ 723,314
- Client Managed Costs						1.0%	\$ 74,186	\$ 96,442
<b>IMPLEMENTATION FEES</b>							\$ 356,093	\$ 462,921
- Consultancy Fees						2.8%	\$ 207,721	\$ 270,037
- Client Managed Costs						1.0%	\$ 74,186	\$ 96,442
- Construction Monitoring Fees						1.0%	\$ 74,186	\$ 96,442
<b>Watermain Installation</b>				\$ 2,019,000			\$ 2,049,540	\$ 2,664,402
Pipe Installation							\$ -	\$ -
Supply, weld and lay DN315 PE100 PN12.5 rising watermain (includes all valves and fittings and		3340 m	\$ 350	\$ 1,169,000	2030 m	\$ 200	\$ 406,000	\$ 527,800
Supply, weld and lay DN315 PE100 PN12.5 falling watermain (includes all valves and fittings and					560 m	\$ 300	\$ 168,000	\$ 218,400
Supply, weld and lay DN355 PE100 PN12.5 falling watermain (includes all valves and fittings and					750 m	\$ 350	\$ 262,500	\$ 341,250
Connections					4 no	\$ 1,000	\$ 4,000	\$ 5,200
Sluice Valves ( 1 per 100m)					33 no	\$ 2,500	\$ 82,500	\$ 107,250
Hydrants assume none								\$ -
T's Assume None								\$ -
Bends					10 no	\$ 1,000	\$ 10,000	\$ 13,000
Blank ends					4 no	\$ 1,400	\$ 5,600	\$ 7,280
Testing and Inspections							\$ -	\$ -
Pressure Testing and Commissioning		1 ls	\$ 50,000	\$ 50,000	3340 m	\$ 6	\$ 20,040	\$ 26,052
Water Reservoir							\$ -	\$ -
1000m3 Steel Reservoir		2 no	\$ 400,000	\$ 800,000			\$ -	\$ -
Site works					1 ls		\$ 50,000	\$ 65,000
Access Track					300 m	\$ 55	\$ 16,500	\$ 21,450
Concrete base					284 m3	\$ 350	\$ 99,400	\$ 129,220
Reinforcement					71000 kg	\$ 4	\$ 284,000	\$ 369,200
Formwork to base					60 m2	\$ 150	\$ 9,000	\$ 11,700
1000m3 Steel Reservoir					2 no.	\$ 300,000	\$ 600,000	\$ 780,000
Assume no booster station								\$ -
Fence					300 m	\$ 90	\$ 27,000	\$ 35,100
Gate					1 no	\$ 5,000	\$ 5,000	\$ 6,500
<b>Waste water Installation</b>				\$ 2,479,200			\$ 2,718,110	\$ 3,533,543
DN 225 PE100 Pressure Pipe		1720 m	\$ 360	\$ 619,200	1720 m	\$ 275	\$ 473,000	\$ 614,900
DN 160 PE100 Pressure Pipe		750 m	\$ 280	\$ 210,000	750 m	\$ 200	\$ 150,000	\$ 195,000
DN 150 PVC Stub off the existing DN300 into Hif area 3.1 ( trenchless)		1 no	\$ 50,000	\$ 50,000		\$ 50,000	\$ -	\$ -
Air valves (assumed every 500m)					5 no	\$ 17,698	\$ 88,490	\$ 115,037
Scour valves(assumed every 2000m)					2 no	\$ 16,260	\$ 32,520	\$ 42,276
Green Dome odour filters					7 no	\$ 5,000	\$ 35,000	\$ 45,500
Pump Station 12 l/s (4.5kw)		2 no	\$ 550,000	\$ 1,100,000				\$ -
Site Clearance					2 no	\$ 5,000	\$ 10,000	\$ 13,000
Earthworks					2 no	\$ 15,000	\$ 30,000	\$ 39,000
Pump Station Hardstanding					2 no	\$ 35,000	\$ 70,000	\$ 91,000
Incoming Chamber					2 no	\$ 5,000	\$ 10,000	\$ 13,000
Wet well					2 no	\$ 15,000	\$ 30,000	\$ 39,000
Valve chamber					2 no	\$ 3,000	\$ 6,000	\$ 7,800
Cover Slab					2 no	\$ 3,000	\$ 6,000	\$ 7,800
Pumps, Valves and Pipes					2 no	\$ 250,000	\$ 500,000	\$ 650,000
Outflow pipework and fittings					2 no	\$ 40,000	\$ 80,000	\$ 104,000
Odour Biofilter					2 no	\$ 30,000	\$ 60,000	\$ 78,000
Building and services					2 no	\$ 75,000	\$ 150,000	\$ 195,000
Electrical works					2 no	\$ 250,000	\$ 500,000	\$ 650,000
Upgrade County club pump station		1 no	\$ 50,000	\$ 50,000	1 no	\$ 50,000	\$ 50,000	\$ 65,000
Storage for pump station (70-75m3)		2 no	\$ 200,000	\$ 400,000				\$ -
Excavation					208 m3	\$ 75	\$ 15,600	\$ 20,280
Supply of 3 diameter 13m long storage tanks					2 no	\$ 65,000	\$ 130,000	\$ 169,000
Deadmen anchoring system					2 ls	\$ 10,000	\$ 20,000	\$ 26,000
Temporary crane platforms					1 no	\$ 5,000	\$ 5,000	\$ 6,500
Install tanks					2 no	\$ 10,000	\$ 20,000	\$ 26,000
Interconnecting pipework					1 ls	\$ 25,000	\$ 25,000	\$ 32,500

Storage tank washer manifold					1	no	\$ 7,500	\$ 7,500	\$ 9,750
Water					1	no	\$ 5,000	\$ 5,000	\$ 6,500
Back filling					100	m3	\$ 90	\$ 9,000	\$ 11,700
Site works					2	no	\$ 75,000	\$ 150,000	\$ 195,000
Testing and Inspections									
Pressure Testing and Commissioning	1	ls	\$ 50,000	\$ 50,000				\$ 50,000	\$ 65,000
<b>Stormwater Installation</b>				<b>\$ 504,500</b>				<b>\$ 639,500</b>	<b>\$ 831,350</b>
Pipe Installation									
1050 RCRRJ	150	m	\$ 1,600	\$ 240,000	150	m	\$ 2,500	\$ 375,000	\$ 487,500
525 RCRRJ	220	m	\$ 950	\$ 209,000	220	m	\$ 950	\$ 209,000	\$ 271,700
Stilling basin ar discharge of DN525 pipe	1	no	\$ 50,000	\$ 50,000	1	no	\$ 50,000	\$ 50,000	\$ 65,000
Testing and comissioning	1	no	\$ 5,500	\$ 5,500	1	no	\$ 5,500	\$ 5,500	\$ 7,150
<b>Total Construction</b>				<b>\$ 5,002,700</b>				<b>\$ 5,407,150</b>	<b>\$ 7,029,295</b>
<b>Preliminary and General</b>	32%			\$ 1,575,851			22.5%	\$ 1,216,609	\$ 1,581,591
<b>Contractors Margin</b>			12%	\$ 789,426			12.0%	\$ 794,851	\$ 1,033,306
<b>Total</b>				<b>\$ 7,367,977</b>				<b>\$ 7,418,610</b>	<b>\$ 9,644,193</b>
<b>Stormwater cost share with Country Club</b>				<b>\$ 1,700,000</b>				<b>\$ 1,700,000</b>	<b>\$ 1,700,000</b>
<b>Grand Total</b>				<b>\$ 7,367,977</b>				<b>\$ 8,702,029</b>	<b>\$ 11,312,638</b>
<b>Grand Total including Country Club Portion</b>				<b>\$ 9,067,977</b>				<b>\$ 10,402,029</b>	<b>\$ 13,012,638</b>

# Project Estimate - Transport

# DBE

Project Name: Ladies Mile

Detailed Business Case Estimate

Item	Description	Base Estimate	30% Contingency (P <sub>50</sub> )	Funding Risk Contingency (P <sub>95</sub> )
<b>A</b>	<b>Nett Project Property Cost</b>			
	<b>Project Development Phase</b>			
	- Consultancy Fees	\$ 239,858	\$ 71,957	
	- Client Managed Costs	\$ 233,939	\$ 70,182	
<b>B</b>	<b>Total Project Development</b>	<b>\$ 473,797</b>	<b>\$ 142,139</b>	
	<b>Pre-implementation Phase</b>			
	- Consultancy Fees	\$ 519,693	\$ 155,908	
	- Client Managed Costs	\$ 79,953	\$ 23,986	
<b>C</b>	<b>Total Pre-implementation</b>	<b>\$ 599,646</b>	<b>\$ 179,894</b>	
	<b>Implementation Phase</b>			
	<b>Implementation Fees</b>			
	- Consultancy Fees	\$ 199,882	\$ 59,965	
	- Client Managed Costs	\$ 79,953	\$ 23,986	
	- Construction Monitoring Fees	\$ 79,953	\$ 23,986	
	<b>Sub Total Base Implementation Fees</b>	<b>\$ 359,787</b>	<b>\$ 107,936</b>	
	<b>Physical Works</b>			
1	Risks	\$ -	\$ -	
2	Earthworks	\$ 703,845	\$ 211,154	
3	Tanks and Reservoirs	\$ -	\$ -	
4	Stormwater Drainage	\$ 409,500	\$ 122,850	
5	Underpasses, pavements & surfacing	\$ 3,747,784	\$ 1,124,335	
6	Conveyance Pipelines	\$ -	\$ -	
7	Retaining Walls	\$ -	\$ -	
8	Traffic Services	\$ 1,439,572	\$ 431,872	
9	Service Relocations	\$ 295,000	\$ 88,500	
10	Landscaping	\$ 208,713	\$ 62,614	
11	Traffic Management and Temporary Works	\$ 148,000	\$ 44,400	
12	Preliminary and General	\$ 1,042,862	\$ 312,859	
13	Extraordinary Construction Costs	\$ -	\$ -	
	<b>Sub Total Base Physical works</b>	<b>\$ 7,995,276</b>	<b>\$ 2,398,583</b>	\$ -
<b>D</b>	<b>Total for Implementation Phase</b>	<b>\$ 8,355,064</b>	<b>\$ 2,506,519</b>	\$ -
<b>E</b>	<b>Project Base Estimate (A+B+C+D)</b>	<b>\$ 9,428,507</b>		
<b>F</b>	<b>Contingency (Assessed/Analysed) (A+B+C+D)</b>		<b>\$ 2,828,552</b>	
<b>G</b>	<b>Project Expected Estimate (P<sub>50</sub>) (E+F)</b>		<b>\$ 12,257,059</b>	
	Nett Project Property Cost Expected Estimate		\$ -	
	Project Development Phase Expected Estimate		\$ 615,936	
	Pre-implementation Phase Expected Estimate		\$ 779,539	
	Implementation Phase Expected Estimate		\$ 10,861,583	
<b>H</b>	<b>Funding Risk Contingency (Assessed/Analysed) (A+B+C+D)</b>			<b>\$ -</b>
<b>I</b>	<b>95th percentile Project Estimate (G+H)</b>			<b>\$ 12,257,059</b>
	Nett Project Property Cost 95th percentile Estimate		\$ -	
	Project Development Phase 95th percentile Estimate		\$ 615,936	
	Pre-implementation Phase 95th percentile Estimate		\$ 779,539	
	Implementation Phase 95th percentile Estimate		\$ 10,861,583	
<b>Date of Estimate</b>	<b>June 2018</b>	<b>Cost Index (Qtr/Year) 1st 28</b>		
<b>Estimate prepared by</b>	<b>M J Revis ( WTPi)</b>	<b>Signed</b>		
<b>Estimate internal peer review by</b>	<b>H A McCondach (WTPi)</b>	<b>Signed</b>		
<b>Estimate external peer review by</b>		<b>Signed</b>		
<b>Estimate accepted by NZTA</b>		<b>Signed</b>		

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

Description	Unit	Quantity	Rate	\$	Quantity	Rate	\$	\$
<b>PROPERTY COSTS</b>				\$ -			\$ -	\$ -
Purchase of land				\$ -			\$ -	\$ -
Internal and legal costs				\$ -			\$ -	\$ -
<b>PROJECT DEVELOPMENT PHASE</b>							\$ 473,797	\$ 615,936
- Consultancy Fees						3.0%	\$ 239,858	\$ 311,816
- Client Managed Costs						1.3%	\$ 103,939	\$ 135,120
Geotech fees							\$ 50,000	\$ 65,000
Archaeology							\$ 50,000	\$ 65,000
Topographical Fees							\$ 30,000	\$ 39,000
<b>PRE-IMPLEMENTATION PHASE</b>							\$ 599,646	\$ 779,539
- Consultancy Fees						6.5%	\$ 519,693	\$ 675,601
- Client Managed Costs						1.0%	\$ 79,953	\$ 103,939
<b>IMPLEMENTATION FEES</b>							\$ 359,787	\$ 467,724
- Consultancy Fees						2.5%	\$ 199,882	\$ 259,846
- Client Managed Costs						1.0%	\$ 79,953	\$ 103,939
- Construction Monitoring Fees						1.0%	\$ 79,953	\$ 103,939
<b>CONTRACTORS QUALITY PLAN (incorporating Site Safety Plan, Environmental Management Plan and Sediment Control &amp; Site Management Plan)</b>				\$ 40,000.00				
Preparation of CQP incl SSP, EMP & SCP	LS	1	10000	\$ 10,000.00				
Management of CQP incl SSP, EMP & SCP	LS	1	30000	\$ 30,000.00				
<b>TRAFFIC MANAGEMENT PLAN</b>				\$ 48,000.00			\$ 148,000.00	\$ 192,400.00
Preparation of Temporary Traffic Management Plan	LS	1	3000	\$ 3,000.00	1	3000	\$ 3,000.00	\$ 3,900.00
Management of TTMP/Traffic Control	LS	1	45000	\$ 45,000.00	90	1500	\$ 135,000.00	\$ 175,500.00
Temporary road markings							\$ 10,000.00	\$ 13,000.00
<b>ESTABLISHMENT</b>	LS	1	20000	\$ 20,000.00				
<b>DAYWORKS</b>				\$ 23,800.00				
Labour	hr	80	50	\$ 4,000.00				
Plant	%	1.1	10000	\$ 11,000.00				
Materials	%	1.1	8000	\$ 8,800.00				
<b>LOCATION &amp; PROTECTION OF SERVICES</b>				\$ 40,000.00			\$ 295,000.00	\$ 383,500.00
Location of Services & Liaison with Utility Authorities	LS	1	10000	\$ 10,000.00	1	10000	\$ 10,000.00	\$ 13,000.00
Relocation & Protection of Services	PS	1	30000	\$ 30,000.00				
150 pvc Sewer pipe	m				150	500	\$ 75,000.00	\$ 97,500.00
300 PVC Sewer pipe	m				150	400	\$ 60,000.00	\$ 78,000.00
Overhead power lines	PS						\$ 100,000.00	\$ 130,000.00
Telecoms	PS						\$ 50,000.00	\$ 65,000.00
<b>EARTHWORKS</b>				\$ 588,450.00			\$ 703,845.00	\$ 914,998.50
Clearing of Site	LS	1	20000	\$ 20,000.00	1	20000	\$ 20,000.00	\$ 26,000.00
Topsoil Stripping - 200mm deep (to waste)	m <sup>3</sup>	2350	50	\$ 117,500.00	2616	50	\$ 130,790.00	\$ 170,027.00
Cut & Undercut to Waste	m <sup>3</sup>	5480	50	\$ 274,000.00	5480	50	\$ 274,000.00	\$ 356,200.00
Sawcut Existing Kerb & Seal	m	30	15	\$ 450.00	30	15	\$ 450.00	\$ 585.00
Beal up existing road					6807	15	\$ 102,105.00	\$ 132,736.50
Granular Bulk Fill	m <sup>3</sup>	3530	50	\$ 176,500.00	3530	50	\$ 176,500.00	\$ 229,450.00
<b>DRAINAGE</b>				\$ 409,500.00			\$ 409,500.00	\$ 532,350.00
Supply and Install 750mm Dia. PVC-U SN8 Pipe (Incl. bedding & pipe connection) (Pipe size to be confirmed by	m	160	800	\$ 128,000.00	160	800	\$ 128,000.00	\$ 166,400.00
Supply and Install 600mm Dia. PVC-U SN8 Pipe (Incl. bedding & pipe connection) (Pipe size to be confirmed by	m	50	650	\$ 32,500.00	50	650	\$ 32,500.00	\$ 42,250.00
Supply and Install 225mm Dia. PVC-U SN8 Pipe (Incl. bedding & pipe connection)	m	0	300	\$ -	0	300	\$ -	\$ -
Supply and Install 1.05m Dia.SWMH Chamber 1.5m deep with HD Lid (Incl. bedding & pipe connection)	ea	0	10000	\$ -	0	10000	\$ -	\$ -
Supply and Install 1.5m Dia.SWMH Chamber 2.0m deep with HD Lid (Incl. bedding & pipe connection)	ea	4	13000	\$ 52,000.00	4	13000	\$ 52,000.00	\$ 67,600.00
Supply and Install Double Back Entry Sump (Incl. bedding & pipe connection)	ea	4	7000	\$ 28,000.00	4	7000	\$ 28,000.00	\$ 36,400.00
Supply and Install Single Back Entry Sump (Incl. bedding & pipe connection)	ea	8	3500	\$ 28,000.00	8	3500	\$ 28,000.00	\$ 36,400.00
Supply and Install NZTA F2 110mm dia Subsoil drainage pipe (Incl. bedding, Filter material, pipe connection, Geotextile filter wrap & cleaning eye)	m	600	60	\$ 36,000.00	600	60	\$ 36,000.00	\$ 46,800.00
Arrow Irrigation Pipe Bypass Works	LS	0	40000	\$ -	0	40000	\$ -	\$ -
Remove Existing SW Sump and Manhole ConnectionPipe	ea	0	1000	\$ -	0	1000	\$ -	\$ -
Site Stormwater Diversion Works	PS	1	100000	\$ 100,000.00	1	100000	\$ 100,000.00	\$ 130,000.00
Remove Existing Concrete Kerb & Channel	m	100	50	\$ 5,000.00	100	50	\$ 5,000.00	\$ 6,500.00



<b>CONCRETE WORKS</b>				<b>\$ 293,600.00</b>			<b>\$ 196,460.70</b>	<b>\$ 255,398.91</b>
500mm Wide Kerb & Channel	m	1350	120	\$ 162,000.00	872	120	\$ 104,640.00	\$ 136,032.00
Construct 300mm Wide Semi-Mountable kerb	m	426	100	\$ 42,600.00	366	100	\$ 36,550.00	\$ 47,515.00
Form Pedestrian Kerb	m	20	100	\$ 2,000.00	20	100	\$ 2,000.00	\$ 2,600.00
100mm infill to splitter/refuse islands					349	100	\$ 34,890.00	\$ 45,357.00
100mm infill to ege of rounderbout					123	150	\$ 18,380.70	\$ 23,894.91
100mm Concrete Island Infill with embedded stones	m <sup>2</sup>	580	150	\$ 87,000.00				
		475			475			
<b>PAVEMENT CONSTRUCTION (CBR4)</b>				<b>\$ 1,385,100.00</b>			<b>\$ 692,902.10</b>	<b>\$ 900,772.73</b>
300mm Sub-base AP65 (solid measure)	m <sup>3</sup>	4965	160	\$ 794,400.00	2680	160	\$ 428,745.60	\$ 557,369.28
180mm Basecourse AP40 (solid measure)	m <sup>3</sup>	2980	190	\$ 566,200.00	1261	190	\$ 239,656.50	\$ 311,553.45
Running Course (looose measure)	m <sup>3</sup>	70	350	\$ 24,500.00	70	350	\$ 24,500.00	\$ 31,850.00
<b>SURFACING</b>				<b>\$ 854,600.00</b>			<b>\$ 1,476,565.80</b>	<b>\$ 1,919,535.54</b>
Nominal 50mm AC14 Asphaltic Concrete	m <sup>2</sup>	4200	50	\$ 210,000.00	8060	50	\$ 403,005.00	\$ 523,906.50
Nominal 100mm AC20 Asphaltic Concrete	m <sup>2</sup>	4200	120	\$ 504,000.00	8409	120	\$ 1,009,080.00	\$ 1,311,804.00
Membrane Seal	m <sup>2</sup>	4200	8	\$ 33,600.00	8060	8	\$ 64,480.80	\$ 83,825.04
Chipseal surfacing (2 Coat 3/5)	m <sup>2</sup>	10700	10	\$ 107,000.00		10		
<b>FOOTPATH CONSTRUCTION - (NOT SHOWN ON</b>				<b>\$ 1,063,050.00</b>			<b>\$ 1,372,855.36</b>	<b>\$ 1,784,711.97</b>
Timber Batten Edging incl Pegs	m	720	20	\$ 14,400.00	720	20	\$ 14,400.00	\$ 18,720.00
100mm AP40 Basecourse (solid measure)	m <sup>3</sup>	145	170	\$ 24,650.00	145	170	\$ 24,650.00	\$ 32,045.00
Nominal 25mm Mix 10 Asphaltic Concrete	m <sup>2</sup>	1080	35	\$ 37,800.00	1080	35	\$ 37,800.00	\$ 49,140.00
Cycle Coloured Surface (AS2700 G13 Emerald Green or	m <sup>2</sup>	0	120	\$ -	0	120	\$ -	\$ -
Fun Yellow Tactile Audio Pavers	m <sup>2</sup>	24	500	\$ 12,000.00	24	500	\$ 12,000.00	\$ 15,600.00
Resting Rails	ea	16	1200	\$ 19,200.00	16	1200	\$ 19,200.00	\$ 24,960.00
<b>Provisional Sum for Pedestrian Solution</b>	<b>lot</b>	<b>1</b>	<b>955000</b>	<b>\$ 955,000.00</b>	<b>1</b>	<b>1264805</b>	<b>\$ 1,264,805.36</b>	<b>\$ 1,644,246.97</b>
<b>Bus Stops</b>							<b>\$ 1,345,772.28</b>	<b>\$ 1,749,503.96</b>
<b>Bus Stop</b>					<b>1</b>	<b>1345772</b>	<b>\$ 1,345,772.28</b>	<b>\$ 1,749,503.96</b>
<b>ROAD LIGHTING</b>				<b>\$ 83,000.00</b>			<b>\$ 83,000.00</b>	<b>\$ 107,900.00</b>
Relocate Existing Lighting Column (Incl. Fitting luminaires and power disconnection)	ea	2	2000	\$ 4,000.00	2	2000	\$ 4,000.00	\$ 5,200.00
Supply & Install New 12m High Lighting Column with 3m Outreach Arm (Incl. 152W LED luminaires)	ea	3	4500	\$ 13,500.00	3	4500	\$ 13,500.00	\$ 17,550.00
Supply & Install New 8m High Lighting Column with Post Top Luminaire Mounting Spigot (Incl. 102W LED luminaires) (Based on 45m spacing)	ea	15	3500	\$ 52,500.00	15	3500	\$ 52,500.00	\$ 68,250.00
Power Cable Installation (Incl. Trenching and ducting if	LS	1	10000	\$ 10,000.00	1	10000	\$ 10,000.00	\$ 13,000.00
Commisioning of Lighting Columns	LS	1	3000	\$ 3,000.00	1	3000	\$ 3,000.00	\$ 3,900.00
<b>PAVEMENT MARKINGS</b>				<b>\$ 9,000.00</b>			<b>\$ 9,000.00</b>	<b>\$ 11,700.00</b>
Reflectorised Pavement marking	LS	1	7000	\$ 7,000.00	1	7000	\$ 7,000.00	\$ 9,100.00
Redundant Pavement Marking Removal (Sand Blasting)	LS	1	2000	\$ 2,000.00	1	2000	\$ 2,000.00	\$ 2,600.00
<b>TRAFFIC SERVICES</b>				<b>\$ 27,000.00</b>			<b>\$ 10,800.00</b>	<b>\$ 14,040.00</b>
Install PW-8 Rotary Junction Sign	ea	4	750	\$ 3,000.00	4	200	\$ 800.00	\$ 1,040.00
Install RG-6R Rotary Give Way Sign	ea	8	750	\$ 6,000.00	8	200	\$ 1,600.00	\$ 2,080.00
Install RG-17 Keep Left (inc. Duroflex PS 03 mounting)	ea	4	350	\$ 1,400.00	4	200	\$ 800.00	\$ 1,040.00
Install PW-5 Diverge Sign	ea	4	1200	\$ 4,800.00	4	500	\$ 2,000.00	\$ 2,600.00
Install PW-69 Chevron Board	ea	4	1200	\$ 4,800.00	4	750	\$ 3,000.00	\$ 3,900.00
Install RG-1 50 km/hr speed limit sign	ea	4	750	\$ 3,000.00	4	200	\$ 800.00	\$ 1,040.00
Install RG-1 80 km/hr speed limit sign	ea	4	750	\$ 3,000.00	4	200	\$ 800.00	\$ 1,040.00
SN-1 Street Sign	ea	4	250	\$ 1,000.00	4	250	\$ 1,000.00	\$ 1,300.00
<b>LANDSCAPING</b>				<b>\$ 112,300.00</b>			<b>\$ 208,713.10</b>	<b>\$ 271,327.03</b>
Existing Tree Removal	LS	1	20000	\$ 20,000.00	1	20000	\$ 20,000.00	\$ 26,000.00
Imported Topsoil 100mm Min. depth (solid measure)	m <sup>3</sup>	350	100	\$ 35,000.00	350	100	\$ 35,000.00	\$ 45,500.00
Grassing and Hydroseeding (Grass for road berm areas only)	m <sup>2</sup>	3500	2.8	\$ 9,800.00	3500	2.8	\$ 9,800.00	\$ 12,740.00
top soil and Planting to rounderabout					1134	50.0	\$ 56,713.10	\$ 73,727.03
Realignment of existing Timber Post and 7 Wire fence	m	475	100	\$ 47,500.00	872	100	\$ 87,200.00	\$ 113,360.00
<b>RETAINING WALLS</b>				<b>\$ 50,000.00</b>			<b>\$ -</b>	<b>\$ -</b>
Slope Stabilisation Works (Allowance for Soil Nailing based on square metre rate for Andrews Rd Soil Nailing 2017)	PS	0	600000	\$ -	0	600000	\$ -	\$ -
Post & Rail H5 Timber Retaining Wall (under 1.5m High)	PS	0	100000	\$ 50,000.00	0	100000		
<b>AS-BUILT DATA &amp; RAMM</b>				<b>\$ 10,000.00</b>				
Road construction RAMM information	LS	1	4000	\$ 4,000.00				
As Built drawings	LS	1	6000	\$ 6,000.00				
<b>Construction Total</b>				<b>\$ 5,057,400.00</b>			<b>\$ 6,952,414.34</b>	<b>\$ 9,038,138.64</b>
<b>P&amp;G</b>						<b>15%</b>	<b>\$ 1,042,862.15</b>	<b>\$ 1,355,720.80</b>
<b>TOTAL</b>				<b>\$ 5,057,400.00</b>			<b>\$ 7,995,276.49</b>	<b>\$ 10,393,859.44</b>
<b>Grand Total</b>				<b>\$ 5,057,400.00</b>			<b>\$ 9,428,506.56</b>	<b>\$ 12,257,058.53</b>



Ladies Mile  
Bus Stop and footpath (taken from Quail Rise DBC)

	Unit	WTP Base Estimate		BondCM		P50		
				Base Estimate				
<b>PROPERTY COSTS</b>				\$ -	\$ -	\$ -		
Purchase of land						\$ -		
Internal and legal costs						\$ -		
<b>PROJECT DEVELOPMENT PHASE</b>				\$ 183,831	\$ 25,030	\$ 207,922		
- Consultancy Fees			3.0%	\$ 40,373	4.0%	\$ 20,024	\$ 57,703	
Architects fees ( Bus Stop)				\$ 75,000		\$ 75,000	\$ 90,834	
<b>- Client Managed Costs</b>				\$ 143,458	\$ 5,006	\$ 150,219		
- Internal fees			1.0%	\$ 13,458	1.0%	\$ 5,006	\$ 17,719	
Geotech fees				\$ 50,000		\$ 50,000	\$ 50,000	
Archaeology				\$ 50,000		\$ 50,000	\$ 50,000	
Topographical Fees				\$ 30,000		\$ 32,500	\$ 32,500	
<b>PRE-IMPLEMENTATION PHASE</b>				\$ 107,662	\$ 45,054	\$ 146,295		
- Consultancy Fees			7.0%	\$ 94,204	8.0%	\$ 40,048	\$ 128,576	
- Client Managed Costs			1.0%	\$ 13,458	1.0%	\$ 5,006	\$ 17,719	
<b>IMPLEMENTATION FEES</b>				\$ 67,289	\$ 35,042	\$ 93,141		
- Consultancy Fees ( Construction monitoring)			3.0%	\$ 40,373	2.0%	\$ 10,012	\$ 57,703	
- Client Managed Costs			1.0%	\$ 13,458	1.0%	\$ 5,006	\$ 17,719	
- Consent Costs			1.0%	\$ 13,458	4.0%	\$ 20,024	\$ 17,719	
<b>EARTHWORKS</b>				\$ 72,025	\$ 71,955	\$ 104,123		
<b>Site Clearance and Demolition</b>				\$ 1,000	\$ 2,500	\$ 1,434		
Remove existing rural wire fencing	m		\$ 20	\$ -	\$ 20	\$ -	\$ -	
Remove 100/50 LM/HR Speed limit signage	no		\$ 500	\$ -	\$ 500	\$ -	\$ -	
Clear Vegetation	m2	-	\$ 5	\$ -	\$ 5	\$ -	\$ -	
Remove existing retaining wall	m		\$ 100	\$ -	\$ 100	\$ -	\$ -	
Remove existing kerb and channel	m	100	\$ 10	\$ 1,000	100	\$ 25	\$ 2,500	\$ 1,434
<b>Earthworks</b>				\$ 51,025	\$ 49,455	\$ 74,022		
Excavate and dispose off site top soil	m3	500	\$ 70	\$ 35,000	500	\$ 70	\$ 35,000	\$ 51,450
Excavate and dispose off site to the reduced level (in all materials) within the footpath, vehicle crossing, drive way, and	m3	105	\$ 70	\$ 7,350	105	\$ 70	\$ 7,350	\$ 10,805
Extra over cost for excavation in rock in the foot path and berm areas (PROVISIONAL)	m3			\$ -		\$ -	\$ -	\$ -
filling to make up levels	m3		\$ 100	\$ -	\$ 100	\$ -	\$ -	\$ -
Undercut unsuitable material and dispose off site (Allowed 10% of Overall Excavation Qty)	m3	50	\$ 70	\$ 3,500	50	\$ 45	\$ 2,250	\$ 4,454
AP65 in undercut areas	m3	50	\$ 100	\$ 5,000	50	\$ 95	\$ 4,750	\$ 6,362
Geotextile undercut area	m2	35	\$ 5	\$ 175	35	\$ 3	\$ 105	\$ 951
Extra over cut to waste and under cut for disposal of MINOR contaminated material to approved tip site	m3			\$ -		\$ -	\$ -	\$ -
Extra over cut to waste and under cut for disposal of SERIOUS contaminated material to approved tip site	m3			\$ -		\$ -	\$ -	\$ -
<b>Temporary Environmental controls</b>				\$ 20,000	\$ 20,000	\$ 28,667		
Preparation of compliance management plans	LS	1	\$ 2,000	\$ 2,000	1	\$ 2,000	\$ 2,000	\$ 2,867
Construct permanent erosion and sediment control measures and monitoring	LS	1	\$ 15,000	\$ 15,000	1	\$ 15,000	\$ 15,000	\$ 21,500
Final clearance and making good erosion and sediment control measures	LS	1	\$ 3,000	\$ 3,000	1	\$ 3,000	\$ 3,000	\$ 4,300
<b>GROUND IMPROVEMENTS</b>								
Assumed none Required								
<b>STORMWATER DRAINAGE</b>				\$ 9,095	\$ 11,235	\$ 13,371		
<b>Kerb and Channel</b>				\$ 6,420	\$ 6,420	\$ 9,438		
Kerb and Channel	m	107	\$ 60	\$ 6,420	107	\$ 60	\$ 6,420	\$ 9,438
<b>Culverts</b>				\$ -	\$ -	\$ -		
<b>Sub Soil Drainage</b>				\$ 2,675	\$ 4,815	\$ 3,933		
Subsoil drain as NZTA F2	m	107	\$ 25	\$ 2,675	107	\$ 45	\$ 4,815	\$ 3,933
<b>PAVEMENTS AND SURFACING</b>				\$ 78,525	\$ 74,238	\$ 109,676		

Ladies Mile  
 Bus Stop and footpath (taken from Quail Rise DBC)

	Unit	WTP Base Estimate		BondCM		P50
				Base Estimate		
<b>Construction</b>				<b>\$ 78,525</b>	<b>\$ 74,238</b>	<b>\$ 109,676</b>
Prepare and test existing sub grade using scala penetrometer to 1m deep at 10m intervals	m2	350	\$ 2	\$ 700	350 \$ 2 \$ 700	\$ 978
Class C geotextile	m2	350	\$ 5	\$ 1,750	350 \$ 3 \$ 1,050	\$ 2,445
150mm thick GAP65 subbase	m3	53	\$ 150	\$ 7,875	53 \$ 105 \$ 5,513	\$ 10,999
100mm thick TNZ40 base course	m3	35	\$ 170	\$ 5,950	35 \$ 135 \$ 4,725	\$ 8,311
Form joint to existing	m	100	\$ 10	\$ 1,000	100 \$ 10 \$ 1,000	\$ 1,397
150 thick reinforced concrete slab	m2	350	\$ 175	\$ 61,250	350 \$ 175 \$ 61,250	\$ 85,546
<b>SHELTER</b>				<b>\$ 600,000</b>	<b>\$ 20,000</b>	<b>\$ 832,500</b>
Bus Shelter	m	50	\$ 12,000	\$ 600,000	1 \$ 20,000 \$ 20,000	\$ 832,500
<b>TRAFFIC SERVICES</b>				<b>\$ 40,600</b>	<b>\$ 38,600</b>	<b>\$ 56,607</b>
<b>Signage</b>				<b>\$ 10,000</b>	<b>\$ 10,000</b>	<b>\$ 13,967</b>
Allowance for road signage	ls	1	\$ 10,000	\$ 10,000	1 \$ 10,000 \$ 10,000	\$ 13,967
PW8	no		\$ 120	\$ -	\$ 120 \$ -	\$ -
RG6R	no		\$ 120	\$ -	\$ 120 \$ -	\$ -
<b>Road Markings</b>				<b>\$ 600</b>	<b>\$ 600</b>	<b>\$ 740</b>
100mm wide reflectorized White border line at shoulder	m		\$ 3	\$ -	\$ 3 \$ -	\$ -
100mm wide reflectorized White Intermittent Line 3m stripe, 7m gap	m		\$ 3	\$ -	\$ 3 \$ -	\$ -
100mm wide double centre line	m	100	\$ 6	\$ 600	100 \$ 6 \$ 600	\$ 740
100mm wide Continuation line	m		\$ 3	\$ -	\$ 3 \$ -	\$ -
100mm Median line	m		\$ 3	\$ -	\$ 3 \$ -	\$ -
200mm Stop Line	m		\$ 6	\$ -	\$ 6 \$ -	\$ -
600 wide Chevron	m		\$ 12	\$ -	\$ 12 \$ -	\$ -
Solid white paint	m2		\$ 30	\$ -	\$ 30 \$ -	\$ -
Right turn arrow	no		\$ 300	\$ -	\$ 300 \$ -	\$ -
<b>Barriers</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
TL4 Barrier	m		\$ 500	\$ -	\$ 500 \$ -	\$ -
<b>Street Lighting</b>				<b>\$ 30,000</b>	<b>\$ 28,000</b>	<b>\$ 41,900</b>
Street Lights ( one per 30m)	no	4	\$ 7,500	\$ 30,000	4 \$ 7,000 \$ 28,000	\$ 41,900
<b>SERVICE RELOACTIONS</b>				<b>\$ 60,000</b>	<b>\$ 40,000</b>	<b>\$ 83,800</b>
<b>Water</b>				<b>\$ 60,000</b>	<b>\$ 40,000</b>	<b>\$ 83,800</b>
Divert water around 1000 mm box culvert	m	100	\$ 600	\$ 60,000	100 \$ 400 \$ 40,000	\$ 83,800
<b>LANDSCAPING</b>				<b>\$ 160,300</b>	<b>\$ 103,850</b>	<b>\$ 223,887</b>
<b>Footpath</b>				<b>\$ 158,400</b>	<b>\$ 102,400</b>	<b>\$ 221,233</b>
Prepare subgrade	m2	1,600	\$ 4	\$ 6,400	1,600 \$ 4 \$ 6,400	\$ 8,939
75mm thick compacted AP40 base course	m2	1,600	\$ 15	\$ 24,000	1,600 \$ 15 \$ 24,000	\$ 33,520
100mm 20Mpa concrete including formwork, saw cuts, dowel bar and tie bar construction joints	m2	1,600	\$ 80	\$ 128,000	1,600 \$ 45 \$ 72,000	\$ 178,774
<b>Pram Crossings</b>				<b>\$ 1,900</b>	<b>\$ 1,450</b>	<b>\$ 2,654</b>
Extra over cost to construct pedestrian crossing	no	1	\$ 1,000	\$ 1,000	1 \$ 1,000 \$ 1,000	\$ 1,397
300x300x60mm Yellow precast Tactile warning and directional indicators	m2	3	\$ 300	\$ 900	3 \$ 150 \$ 450	\$ 1,257
<b>Landscaping</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
Form swale/feather edge	m		\$ 25	\$ -	\$ 25 \$ -	\$ -
Imported topsoil to swales	m3		\$ 90	\$ -	\$ 90 \$ -	\$ -
Grass seed	m2		\$ 2	\$ -	\$ 2 \$ -	\$ -
Rubble fill to swales	m3		\$ 100	\$ -	\$ 100 \$ -	\$ -
<b>Fencing</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
5 wire and post fence	m		\$ 20	\$ -	\$ 20 \$ -	\$ -
<b>TRAFFIC MANAGEMENT AND TEMPORARY WORKS</b>				<b>\$ 81,644</b>	<b>\$ 28,790</b>	<b>\$ 148,249</b>
Temporary Traffic Management			8%	\$ 81,644	8% \$ 28,790	\$ 148,249
<b>Total</b>				<b>\$ 1,102,189</b>	<b>\$ 388,668</b>	<b>\$ 1,572,213</b>
<b>P&amp;G</b>			10.0%	\$ 110,219	15.0% \$ 58,300	\$ 171,090
<b>Offsite Overheads and profit</b>			11.0%	\$ 133,365	12.0% \$ 53,636	\$ 199,599
<b>Total</b>				<b>\$ 1,345,772</b>	<b>\$ 500,604</b>	<b>\$ 1,942,902</b>

Ladies Mile  
**UNDERPASS DETAILS**  
Assumed Crossing 2 lanes say 15m long

	Unit		WTP Base Estimate		P50
<b>PROPERTY COSTS</b>				\$ -	\$ -
Purchase of land north side	450 m2		\$ 1,000	Excluded	
Purchase of land south side	450 m2		\$ 800	Excluded	
<b>PROJECT DEVELOPMENT PHASE</b>				\$ 180,592	\$ 233,197
- Consultancy Fees			3.0%	\$ 37,944	\$ 76,542
- Client Managed Costs				\$ 142,648	\$ 156,655
- Internal fees			1.0%	\$ 12,648	\$ 24,155
Geotech fees				\$ 50,000	\$ 50,000
Archaeology				\$ 50,000	\$ 50,000
Topographical Fees				\$ 30,000	\$ 32,500
<b>PRE-IMPLEMENTATION PHASE</b>				\$ 101,184	\$ 197,315
- Consultancy Fees			7.0%	\$ 88,536	\$ 173,160
- Client Managed Costs			1.0%	\$ 12,648	\$ 24,155
<b>IMPLEMENTATION FEES</b>				\$ 56,916	\$ 109,939
- Consultancy Fees ( Construction monitoring)			2.5%	\$ 31,620	\$ 61,629
- Client Managed Costs			1.0%	\$ 12,648	\$ 24,155
- Consent Costs			1.0%	\$ 12,648	\$ 24,155
<b>EARTHWORKS</b>				\$ 473,813	\$ 593,350
<b>Site Clearance and Demolition</b>				\$ -	\$ -
	no			\$ -	\$ -
<b>Earthworks</b>				\$ 453,813	\$ 568,683
Excavate and dispose off site top soil	m3		\$ 50	\$ -	\$ -
Excavate and dispose off site to the reduced level (in all materials) within the footpath, vehicle crossing, drive way, and	m3	2,975	\$ 50	\$ 148,750	\$ 180,236
Earth work support ( sheet piles)	m2	455	\$ 600	\$ 273,000	\$ 347,620
Extra over cost for excavation in rock in the foot path and berm areas (PROVISIONAL)	m3	30	\$ 130	\$ 3,900	\$ 4,966
Undercut unsuitable material and dispose off site (Allowed 10% of Overall Excavation Qty)	m3	30	\$ 90	\$ 2,700	\$ 3,438
AP65 in undercut areas	m3	30	\$ 95	\$ 2,850	\$ 3,629
Geotextile undercut area	m2	100	\$ 3	\$ 300	\$ 382
Extra over cut to waste and under cut for disposal of MINOR contaminated material to approved tip site	m3	1,488	\$ 15	\$ 22,313	\$ 28,412
Extra over cut to waste and under cut for disposal of SERIOUS contaminated material to approved tip site	m3		\$ 95	\$ -	\$ -
<b>Temporary Environmental controls</b>				\$ 20,000	\$ 24,667
Preparation of compliance management plans	LS	1	\$ 2,000	\$ 2,000	\$ 2,467
Construct permanent erosion and sediment control measures and monitoring	LS	1	\$ 15,000	\$ 15,000	\$ 18,500
Final clearance and making good erosion and sediment control measures	LS	1	\$ 3,000	\$ 3,000	\$ 3,700
<b>GROUND IMPROVEMENTS</b>					
Assumed none Required					
<b>STORMWATER DRAINAGE</b>				\$ 10,500	\$ 12,723
<b>Kerb and Channel</b>				\$ -	\$ -
Kerb and Channel	m		\$ 60	\$ -	\$ -
<b>Culverts</b>				\$ -	\$ -
450 diameter class 4 RCRRJ Pipe	m		\$ 750	\$ -	\$ -
300 diameter class 4 RCRRJ Pipe	m		\$ 600	\$ -	\$ -
Headwall to 600 dia existing pipe	no		\$ 3,000	\$ -	\$ -
Headwall to 450 dia pipe	no		\$ 2,500	\$ -	\$ -
<b>Sub Soil Drainage</b>				\$ -	\$ -
Subsoil drain as NZTA F2	m	-	\$ 65	\$ -	\$ -
<b>Supply and install Catch pits</b>				\$ 10,500	\$ 12,723
Acco to base of ramps	m	6	\$ 750	\$ 4,500	\$ 5,453
Sumps	no	2	\$ 3,000	\$ 6,000	\$ 7,270
<b>TUNNELS</b>				\$ 473,540	\$ 573,782
<b>Underpass</b>				\$ 175,200	\$ 212,290
Concrete to base slab	m3	26	\$ 325	\$ 8,531	\$ 10,338
Reinforcement to last	kg	5,250	\$ 3	\$ 15,750	\$ 19,084
Formwork to slab	m2	15	\$ 165	\$ 2,475	\$ 2,999
100mm thick sub base course	m3	5	\$ 175	\$ 919	\$ 1,114
Concrete to walls	m3	53	\$ 325	\$ 17,063	\$ 20,675
Reinforcement to last	kg	10,500	\$ 3	\$ 31,500	\$ 38,168
Formwork to wall	m2	210	\$ 165	\$ 34,650	\$ 41,985
Concrete to roof	m3	53	\$ 325	\$ 17,063	\$ 20,675
Reinforcement to last	kg	13,125	\$ 3	\$ 39,375	\$ 47,710
Formwork to slab	m2	53	\$ 150	\$ 7,875	\$ 9,542

<b>Access Ramps</b>				<b>\$ 293,240</b>	<b>\$ 355,311</b>
Concrete to base slab ( allow 150 thick)	m3	105	\$ 325	\$ 34,125	\$ 41,349
Reinforcement to last	kg	21,000	\$ 3	\$ 63,000	\$ 76,335
Formwork to slab	m2	6	\$ 165	\$ 990	\$ 1,200
100mm thick sub base course	m3	70	\$ 175	\$ 12,250	\$ 14,843
Concrete to walls	m3	175	\$ 325	\$ 56,875	\$ 68,914
Reinforcement to last	kg	35,000	\$ 3	\$ 105,000	\$ 127,225
Formwork to wall	m2	140	\$ 150	\$ 21,000	\$ 25,445
<b>Stairs</b>				<b>\$ 35,000</b>	<b>\$ 42,409</b>
Access stairs	m rise	7	\$ 5,000	\$ 35,000	\$ 42,409
<b>Pavement and Surfacing</b>				<b>\$ 5,100</b>	<b>\$ 6,181</b>
150mm thick GAP65 subbase	m3	9	\$ 150	\$ 1,350	\$ 1,636
100mm thick TNZ40 base course	m3	6	\$ 175	\$ 1,050	\$ 1,273
2 coat chip seal membrane	m2	60	\$ 45	\$ 2,700	\$ 3,272
<b>Lighting</b>				<b>\$ 50,000</b>	<b>\$ 60,584</b>
Lighting	LS	1	\$ 50,000	\$ 50,000	\$ 60,584
<b>Baulstrades</b>				<b>\$ 76,000</b>	<b>\$ 92,087</b>
Handrials to ramps	m	200	\$ 275	\$ 55,000	\$ 66,642
Baulstrades to stairs	m	14	\$ 1,500	\$ 21,000	\$ 25,445
<b>RETAINING WALLS</b>				<b>\$ -</b>	<b>\$ -</b>
Retaining wall	m		\$ 1,000	\$ -	\$ -
<b>TRAFFIC SERVICES</b>				<b>\$ 25,000</b>	<b>\$ 28,000</b>
<b>Signage</b>				<b>\$ -</b>	<b>\$ -</b>
Allowance for road signage	ls		\$ 5,000	\$ -	\$ -
Reinstall twin post 3m guide sign	no		\$ 2,500	\$ -	\$ -
<b>Road Markings</b>				<b>\$ -</b>	<b>\$ -</b>
Remove Existing Markings	ls		\$ 500	\$ -	\$ -
300mm wide reflectorized white continuous Limit Line	m		\$ 15	\$ -	\$ -
100mm wide reflectorized White border line at flush median	m		\$ 1	\$ -	\$ -
100mm wide continuous reflectorized white pedestrian crossing	m		\$ 5	\$ -	\$ -
100mm edge lines	m		\$ 1	\$ -	\$ -
100mm wide reflectorized White Intermittent Line 3m stripe, 7m	m		\$ 1	\$ -	\$ -
600mm wide reflectorized taper White bar, 2:1 slope at flush	m		\$ 7	\$ -	\$ -
Bi Directional white raised reflective marker	no		\$ 12	\$ -	\$ -
Giveaway triangle	no		\$ 150	\$ -	\$ -
Pedestrian symbol	no		\$ 80	\$ -	\$ -
Right Turn Arrow	no		\$ 75	\$ -	\$ -
<b>Barriers</b>				<b>\$ 25,000</b>	<b>\$ 28,000</b>
TL4 Barrier	m	50	\$ 500	\$ 25,000	\$ 28,000
<b>Street Lighting</b>					
Assumed none					
<b>SERVICE RELOACTIONS ( assume none)</b>				<b>\$ -</b>	<b>\$ -</b>
<b>Water</b>				<b>\$ -</b>	<b>\$ -</b>
50mm OD	m		\$ 300	\$ -	\$ -
<b>HV Power and Phone</b>				<b>\$ -</b>	<b>\$ -</b>
Allowance	m		\$ 1,000	\$ -	\$ -
<b>LANDSCAPING</b>				<b>\$ 19,600</b>	<b>\$ 27,375</b>
<b>Footpath</b>				<b>\$ -</b>	<b>\$ -</b>
Prepare subgrade	m2		\$ 4	\$ -	\$ -
75mm thick compacted GAP20 base course	m2		\$ 15	\$ -	\$ -
100mm thick black chip 20Mpa insitu exposed aggregate	m2		\$ 80	\$ -	\$ -
665 reinforcing steel mesh	m2		\$ 10	\$ -	\$ -
Allowance between concrete footpath and existing driveway	m		\$ 5	\$ -	\$ -
<b>Pram Crossings</b>				<b>\$ -</b>	<b>\$ -</b>
Extra over cost to construct pedestrian crossing	m2		\$ 60	\$ -	\$ -
300x300x60mm Yellow precast Tactile warning and directional indicators	m2		\$ 300	\$ -	\$ -
<b>Access Way</b>				<b>\$ -</b>	<b>\$ -</b>
Relocate business access ways	m2		\$ 116	\$ -	\$ -
<b>Landscaping</b>				<b>\$ 19,600</b>	<b>\$ 27,375</b>
Form swales	m		\$ 25	\$ -	\$ -
150 thick topsoil to swales	m2		\$ 15	\$ -	\$ -
300 thick topsoil to embankments	m2	400	\$ 15	\$ 6,000	\$ 8,380
Plant and mulch to embankments	m2	400	\$ 34	\$ 13,600	\$ 18,995
Grass seed	m2		\$ 2	\$ -	\$ -
Rubble fill to swales	m3		\$ 100	\$ -	\$ -
<b>Fencing</b>				<b>\$ -</b>	<b>\$ -</b>
5 wire and post fence	m		\$ 20	\$ -	\$ -
<b>TRAFFIC MANAGEMENT AND TEMPORARY WORKS</b>				<b>\$ 33,424</b>	<b>\$ 81,032</b>
Temporary Traffic Management			6%	\$ 33,424	\$ 81,032
<b>Total</b>				<b>\$ 1,035,877</b>	<b>\$ 1,316,262</b>
<b>P&amp;G</b>			<b>10.0%</b>	\$ 103,588	\$ 203,211
<b>Offsite Overheads and profit</b>			<b>11.0%</b>	\$ 125,341	\$ 243,571
<b>Total</b>				<b>\$ 1,264,805</b>	<b>\$ 1,763,044</b>