

Code	Description	Quantity	Unit	Rate	Total
1	Road Duplication				
	<u>DIRECT CONSTRUCTION COSTS</u>				
	<u>ROAD DUPLICATION</u>				
MITS00	Preliminaries, Site Establishment and Management Costs				2,283,941
MITS01	Traffic Management				788,150.00
MITS02	Earthworks				4,034,493
MITS03	Underground Services				2,131,180
MITS04	Flexible Pavement Construction				15,791,584
MITS06	Minor Concrete Works				3,818,293
MITS07	Segmental Paving				
MITS08	Incidental Works				160,647
MITS09	Landcape				1,207,919
MITS10	Concrete Works				4,546,307
MITS11	Pavement Marking				156,059
MITS13	Traffic Signals				1,206,940
MITS14	Road Signs				50,150
MITS15	Road Furniture				2,628,420
MITS16	WSUD Features				

38,804,082

Code	Description	Quantity	Unit	Rate	Total
00 MITS Preliminaries, Site Establishment and Management Costs					
	Preliminaries				
	General requirements				
0A.1	Site Establishment	2	LS	18,075.00	36,150.00
0A.2	Office for Authorised Person	1	LS	4,225.00	4,225.00
0A.3	Items from Principal (Supervision)	79	wks	8,330.77	658,130.77
	Insurances, bonds, etc, managing the GC21 contract	1	item	240,000.00	240,000.00
	Crane/plant hire, materials handling, etc	1	wks	177,750.00	177,750.00
0A.4	Temporary Site Perimeter Security Fence		m		
0A.5	Project Signs	5	no	750.00	3,750.00
0A.6	Coordination with Utility Authorities	1	LS	43,450.00	43,450.00
0A.7	Liaison and coordination with Adjoining Works Contractors		LS		
0A.8	Liaison and coordination with Principal's Registered Surveyor for Block Pegging		LS		
0A.9	Liaison and coordination with Principal's Geotechnical Engineer for Block Classification		LS		
0A.10	Liaison and coordination with Principal's Cultural Heritage Consultant		LS		
0A.11	Additional work required for staging of the works		LS		
0A.12	Survey Set Out and Control	79	wks	3,200.00	252,800.00
	<u>Relocation/adjustment to existing services</u>				
0A.13.1	Works by the Contractor	1	PS	250,000.00	250,000.00
0A.13.2	Works by the Service Authority		PS		
	<u>Additional Work</u>		PS		
	<u>Removal of existing services and structures</u>				
0A.15.1	Stormwater sewer and water supply pipes (various diameters)		m		
0A.15.2	Utilities (various size)		m		
0A.15.3	Structures (various structures)		no		
0A.15.4	Kerb (various sizes and types)	3,792	m	5.00	18,960.00
0A.15.5	Path or concrete paving (various thickness)		m2		
	<u>Existing service location</u>				
	These items included in 0A.13.1		note		
0A16.1	Sewer	1	Each		
0A16.2	Stormwater	34	Each		
0A16.3	Water	14	Each		
0A15.4	Gas	0	Each		
0A15.5	Electricity	7	Each		
0A15.6	Telstra	10	Each		

Code	Description	Quantity	Unit	Rate	Total
MITS Preliminaries, Site Establishment and Management Costs					<i>(Continued)</i>
00					
0A15.7	NBN		Each		
	Quality Construction				
0B.1	Quality system documents and records	1	LS	4,750.00	4,750.00
0B.2	Quality verification and control – Additional testing	1	PS	0.00	
	Testing, reports, etc	1	wks	231,075.00	231,075.00
0B.3	Preparation of Works as Executed drawings				
0B.4.1.1	Civil	1	PS	5,000.00	5,000.00
0B.4.1.2	Landscape	1	PS	3,000.00	3,000.00
0B.4.1.3	Streetlight	1	PS	4,500.00	4,500.00
0B.4.1.4	NBN		PS		
	Control of Erosion and Sedimentation				
0C.1	Erosion and sediment control				
0C.1.1	Establishment	1	LS	350,400.00	350,400.00
0C.1.2	Maintenance for the duration of the Contract		LS		
0C.1.3	Disestablishment		LS		
0C.2	Waterways license		LS		
0C.3	Temporary ponds		LS		
	Total General				
	Total Traffic Management				
					2,283,941

Code	Description	Quantity	Unit	Rate	Total
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**MITS Traffic Management
 01**

	Traffic Management				
1.1	Control of traffic	1	LS	402,900.00	402,900
1.2	Temporary roadways		LS		
1.3	Portable Traffic signals	79	wks	3,000.00	237,000
1.4	Temporary lighting		wks		
1.5	Variable message signs	79	wks	1,750.00	138,250
1.6	Safety Audit		no		
1.7	Road Safety Audit	8	no	1,250.00	10,000

788,150

Code	Description	Quantity	Unit	Rate	Total
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**MIT5 Earthworks
02**

	<u>EARTHWORKS</u>				
	<u>Clearing and Grubbing</u>				
2A.1	Clearing and grubbing	0	LS		
2A.2	Removal of Regulated trees		no		
2A.3	Removal of nominated trees	550	no	195.00	107,250.00
2A.4	Wood-chipping		m3		
2A.5	Tree Surgery		PS		
2A.6	Landscape Management and Protection Plan	1	LS	45,000.00	45,000.00
	<u>Bulk Earthworks</u>				
2B.1	Topsoil stripping	24,200	m3	8.92	215,864.00
	<u>Cut</u>		m3		
2B.2.1	Within project site	79,653	m3	29.35	2,337,815.55
2B.2.2	From external areas nominated by the Principal		m3		
2B.2.3	From stockpiles nominated by the Principal		m3		
2B.3	Unsuitable Material	7,966	m3	29.35	233,802.10
2B.4	Non-mechanical excavation		m3		
2B.5	General fill	79,653	m3	13.70	
2B.6	Controlled fill		m3		
2B.7	Imported Fill	40,445	m3	20.00	808,900.00
2B.8	Preparation of cut and fill subgrades	95,287	m2	3.00	285,861.00
2B.9	Preparation of controlled fill subgrades		m2		
	<u>Stabilisation</u>				
	Supply stabilising agent (in situ mixing only)				
2C.1.1	Cement		t		
2C.1.2	Quick lime		t		
	Hydrated lime		t		
2C.1.4	Blended stabilising agent		t		
2C.2	Trial Section		m2		
2C.3	Additional Trial Sections		m2		
2C.4	Spread and mixing of stabilising agent		m2		

4,034,493

Code	Description	Quantity	Unit	Rate	Total
MITS Underground Services					
03					
<u>UNDERGROUND SERVICES</u>					
Trenching for Underground Services					
3A.1	CCTV Camera	4,335	m	2.08	9,000.00
3A.2	Removal of existing redundant structures	41	no	125.00	5,125.00
3A.3	Exhume existing pipes		m		
3A.4	Removal of unsuitable material from trenches		m3		
Pipe Drainage					
3B.1	Stormwater pipes and pipe culverts				
3B.1.1	100mm dia PVC 0.0 -3.0m depth		m		
3B.1.2	300mm dia RCP Class 4 RRJ 0.0 - 1.5 m depth	72	m	295.00	21,313.75
3B.1.3	300mm dia RCP Class 4 RRJ 1.5 - 2.5 m depth	216	m	305.00	66,026.40
3B.1.4	300mm dia RCP Class 4 RRJ 2.5 - 3.5 m depth	51	m	315.00	16,201.08
3B.1.5	375mm dia RCP Class 4 RRJ 0.0 - 1.5 m depth	90	m	295.00	26,419.91
3B.1.6	375mm dia RCP Class 4 RRJ 1.5 - 2.5 m depth	150	m	305.00	45,692.96
3B.1.7	375mm dia RCP Class 4 RRJ 2.5 - 3.5 m depth	140	m	315.00	44,146.31
3B.1.8	450mm dia RCP Class 4 RRJ 0.0 - 1.5 m depth	14	m	380.00	5,354.96
3B.1.9	450mm dia RCP Class 4 RRJ 1.5 - 2.5 m depth	94	m	390.00	36,538.71
3B.1.10	450mm dia RCP Class 4 RRJ 2.5 - 3.5 m depth	14	m	400.00	5,660.00
3B.1.11	525mm dia RCP Class 4 RRJ 0.0 - 1.5 m depth	1	m	425.00	267.75
3B.1.12	525mm dia RCP Class 4 RRJ 1.5 - 2.5 m depth	19	m	435.00	8,462.49
3B.1.13	525mm dia RCP Class 4 RRJ 2.5 - 3.5 m depth	26	m	445.00	11,458.75
3B.1.14	600mm dia RCP Class 4 RRJ 0.0 - 1.5 m depth	28	m	485.00	13,408.31
3B.1.15	600mm dia RCP Class 4 RRJ 1.5 - 2.5 m depth	722	m	495.00	357,578.60
3B.1.16	600mm dia RCP Class 4 RRJ 2.5 - 3.5 m depth	345	m	505.00	174,383.57
3B.1.17	600mm dia RCP Class 4 RRJ 3.5 - 4.5 m depth	73	m	515.00	37,363.25
3B.1.18	600mm dia RCP Class 4 RRJ 4.5 - 5.5 m depth	57	m	525.00	29,711.33
3B.1.19	600mm dia RCP Class 4 RRJ 5.5 - 6.5 m depth	3	m	535.00	1,471.25
3B.1.20	675mm dia RCP Class 4 RRJ 0.0 - 1.5 m depth	17	m	535.00	9,201.47
3B.1.21	900mm dia RCP Class 4 RRJ 0.0 - 1.5 m depth	2	m	805.00	1,226.82
3B.1.22	900mm dia RCP Class 4 RRJ 1.5 - 2.5 m depth	3	m	815.00	2,037.50
3B.1.23	900mm dia RCP Class 4 RRJ 2.5 - 3.5 m depth	3	m	825.00	2,062.50
3B.1.24	900mm dia RCP Class 4 RRJ 3.5 - 4.5 m depth	3	m	835.00	2,129.25
3B.1.25	900mm dia RCP Class 4 RRJ 4.5 - 5.5 m depth	3	m	845.00	2,112.50
3B.1.26	900mm dia RCP Class 4 RRJ 5.5 - 6.5 m depth	3	m	855.00	2,180.25
3B.1.27	900mm dia RCP Class 4 RRJ 6.5 - 7.5 m depth	3	m	865.00	2,162.50

Code	Description	Quantity	Unit	Rate	Total
MIT5 Underground Services					<i>(Continued)</i>
03					
3B.1.28	900mm dia RCP Class 4 RRJ 7.5 - 8.5 m depth	1	m	875.00	1,137.50
3B.1.29	1050mm dia RCP Class 4 RRJ 0.0 - 1.5 m depth	2	m	1,265.00	2,522.41
3B.1.30	1050mm dia RCP Class 4 RRJ 1.5 - 2.5 m depth	63	m	1,275.00	80,511.15
3B.1.31	1050mm dia RCP Class 4 RRJ 2.5 - 3.5 m depth	142	m	1,285.00	182,020.25
3B.1.32	1050mm dia RCP Class 4 RRJ 3.5 - 4.5 m depth	65	m	1,295.00	83,592.25
3B.1.33	1050mm dia RCP Class 4 RRJ 4.5 - 5.5 m depth	1	m	1,305.00	652.50
3B.1.34	1050mm dia RCP Class 4 RRJ 5.5 - 6.5 m depth	0	m	1,315.00	184.10
3B.1.35	1200mm dia RCP Class 4 RRJ 0.0 - 1.5 m depth	0	m	1,265.00	169.51
3B.1.36	1200mm dia RCP Class 4 RRJ 1.5 - 2.5 m depth	0	m	1,275.00	127.50
3B.1.37	1200mm dia RCP Class 4 RRJ 2.5 - 3.5 m depth	0	m	1,285.00	321.25
3B.1.38	1200mm dia RCP Class 4 RRJ 3.5 - 4.5 m depth	11	m	1,295.00	13,954.92
3B.1.39	1200mm dia RCP Class 4 RRJ 4.5 - 5.5 m depth	0	m	1,305.00	65.25
3B.1.40	1200mm dia RCP Class 4 RRJ 5.5 - 6.5 m depth	0	m	1,315.00	131.50
3B.1.41	1200mm dia RCP Class 4 RRJ 6.5 - 7.5 m depth	2	m	1,325.00	3,180.00
3B.1.42	1350mm dia RCP Class 4 RRJ 1.5 - 2.5 m depth	2	m	1,325.00	2,665.90
3B.1.43	1350mm dia RCP Class 4 RRJ 2.5 - 3.5 m depth	2	m	1,325.00	2,981.25
3B.1.44	1350mm dia RCP Class 4 RRJ 3.5 - 4.5 m depth	2	m	1,325.00	2,981.25
3B.1.45	1350mm dia RCP Class 4 RRJ 4.5 - 5.5 m depth	2	m	1,325.00	3,246.25
3B.2	Stormwater pipe fittings				
3B.2.1	100x225mm slope junction		no		
3B.2.2	100x300mm slope junction		no		
3B.2.3	100x375mm slope junction		no		
3B.2.4	150x225mm slope junction		no		
3B.2.5	150x300mm slope junction		no		
3B.2.6	150x375mm slope junction		no		
3B.2.7	225x300mm saddle slope junction		no		
3B.2.8	225x375mm saddle slope junction		no		
3B.2.9	225x450mm saddle slope junction		no		
3B.2.10	225x525mm saddle slope junction		no		
3B.2.11	225x600mm saddle slope junction		no		
3B.2.12	100x30 degree bend		no		
3B.2.13	150x30 degree bend		no		
3B.2.14	225x30 degree bend		no		
3B.2.15	100x30 degree bend		no		
3B.3	Stormwater pipe branch connections				

Code	Description	Quantity	Unit	Rate	Total
MIT5 Underground Services					<i>(Continued)</i>
03					
3B.3.1	375x150 branch connection		no		
3B.3.2	450x150 branch connection		no		
3B.4	Flexible joints				
3B.4.1	225mm dia UPVC		no		
3B.4.2	300mm dia RCP		no		
3B.4.3	375mm dia RCP		no		
3B.4.4	450mm dia RCP		no		
3B.4.5	525mm dia RCP		no		
3B.4.6	600mm dia RCP		no		
3B.4.7	675mm dia RCP		no		
3B.4.8	750mm dia RCP		no		
3B.4.9	825mm dia RCP		no		
3B.4.10	900mm dia RCP		no		
3B.4.11	1050mm dia RCP		no		
3B.5	Splayed stormwater pipe				
3B.5.1	675mm dia RCP		m		
3B.5.2	750mm dia RCP		m		
3B.5.3	825mm dia RCP		m		
3B.5.4	900mm dia RCP		m		
3B.5.5	1050mm dia RCP		m		
3B.6	End caps for stormwater mains				
3B.6.1	150mm dia - uPVC end cap		no		
3B.6.2	225mm dia - uPVC end cap		no		
3B.6.3	300mm dia - uPVC end cap		no		
3B.7	End caps for stormwater ties				
3B.7.1	100mm dia Tie uPVC end cap & marker		no		
3B.7.2	150mm dia Tie uPVC end cap & marker		no		
3B.7.3	225mm dia Tie uPVC end cap & marker		no		
3B.7.4	300mm dia Tie uPVC end cap & marker		no		
3B.8	Scour stops				
3B.8.1	225mm dia scour stop		no		
3B.8.1	300mm dia scour stop		no		
3B.8.2	375mm dia scour stop		no		
3B.9	Connect to existing stormwater structures				
3B.9.1	150mm dia connection to existing sump		Each		

Code	Description	Quantity	Unit	Rate	Total
MTS Underground Services					<i>(Continued)</i>
03					
3B.9.2	300mm dia connection to existing manhole	34	Each	160.00	5,440.00
Precast Box Culverts					
3C.1	Cast insitu base slab				
3C.1.1	Culvert 1: 1200x3000x200 base slab		no		
3C.1.2	Culvert 2: 2x5000x4500x250 base slab		no		
3C.2	Precast RCBC				
3C.2.1	900Wx450H		no		
3C.2.2	3000Wx1200H		no		
3C.3	Cast insitu link slab				
3C.3.1	Culvert 1: 5000x4500x200 link slab		no		
3C.4	Modify precast RCBC		no		
Drainage Structures					
3D.1	Stormwater MH	18	no	3,125.00	56,250.00
3D.2	Stormwater MH >1.45m		m		
3D.3	Class D access covers		no		
3D.4	Special chambered MH				
3D.4.1	Special chambered MH 1/1	1	no	8,500.00	8,500.00
3D.4.2	Special chambered MH 1/2	1	no	8,500.00	8,500.00
3D.4.3	Special chambered MH 1/3	1	no	8,500.00	8,500.00
3D.4.4	Special chambered MH 1/4	1	no	8,500.00	8,500.00
3D.4.5	Special chambered MH 1/5	1	no	8,500.00	8,500.00
3D.4.6	Special chambered MH 1/6	1	no	8,500.00	8,500.00
3D.4.7	Special chambered MH 1/7	1	no	8,500.00	8,500.00
3D.4.8	Special chambered MH 1/8	1	no	8,500.00	8,500.00
3D.4.9	Special chambered MH 1/9	1	no	8,500.00	8,500.00
3D.5	Stormwater sumps				
3D.5.1	R sump	56	no	3,250.00	182,000.00
3D.5.2	Grated sump Type 1	0	no		
3D.5.3	Grated sump Type 2	0	no		
3D.5.4	Single sided plantation sump	5	no	4,500.00	22,500.00
3D.5.5	Double sided plantation sump	4	no	7,500.00	30,000.00
3D.5.6	Double R sump	2	no	7,500.00	15,000.00
3D.5.7	QS sump	8	no	2,800.00	22,400.00
3D.5.8	On grade KI sump	0	no		
3D.5.9	Sag point KI sump	0	no		

Code	Description	Quantity	Unit	Rate	Total
MIT5 Underground Services					(Continued)
03					
3D.6	Stormwater sumps >1.8m				
3D.6.1	R sump		m		
3D.6.2	Grated sump Type 1		m		
3D.6.3	Grated sump Type 2		m		
3D.6.4	Single sided plantation sump		m		
3D.6.5	Double sided plantation sump		m		
3D.6.6	Double R sump		m		
3D.7	Surcharge structures				
3D.7.1	Surcharge structure 1/1		no		
3D.7.2	Surcharge structure 1/2		no		
3D.8	Headwalls				
3D.8.1	Culvert 1: 900Wx450H headwall	20	no	6,513.00	130,260.00
3D.8.2	Pipe Culvert 1/1-1/2: DN450 headwall		no		
Water Supply Reticulation					
3E.1	Water supply pipes				
3E.1.1	100 PVC-O PN16	54	m	70.00	3,780.00
3E.1.2	150 PVC-O PN16	203	m	79.00	16,037.00
3E.1.3	300 PVC-O PN16	33	m	182.00	6,006.00
3E.1.4	600 PVC-O PN16	93	m	309.00	28,737.00
3E.1.5	675 PVC-O PN16	177	m	400.00	70,800.00
3E.1.6	900 PVC-O PN16	35	m	1,200.00	42,000.00
3E.2	Water supply pipe bends				
3E.2.1	100mm x 11.25°		no		
3E.2.2	100mm x 22.5°		no		
3E.2.3	100mm x 45°		no		
3E.2.4	100mm x 90°		no		
3E.2.5	150mm x 11.25°		no		
3E.2.6	150mm x 22.5°		no		
3E.2.7	150mm x 45°		no		
3E.2.8	150mm x 90°		no		
3E.2.9	225mm x 11.25°		no		
3E.2.10	225mm x 22.5°		no		
3E.2.11	225mm x 45°		no		
3E.2.12	225mm x 90°		no		
3E.3	Water supply pipe tees				

Code	Description	Quantity	Unit	Rate	Total
03 MITS Underground Services					<i>(Continued)</i>
3E.3.1	100 x 100mm dia		no		
3E.3.2	150 x 100mm dia		no		
3E.3.3	150 x 150mm dia		no		
3E.3.4	225 x 100 mm dia		no		
3E.3.5	225 x 150 mm dia		no		
3E.3.6	225 x 225mm dia		no		
3E.3.7	100mm x 75mm dia hydrant tee		no		
3E.3.8	150mm x 75mm dia hydrant tee		no		
3E.3.9	225mm x 75mm dia hydrant tee		no		
3E.4	Water supply pipe reducers				
3E.4.1	150-100 reducer		no		
3E.4.2	225-150 reducer		no		
3E.5	Fire hydrants				
3E.5.1	Inline DN80 Spring Hydrant		no		
3E.5.2	Dead end DN80 Spring Hydrant		no		
3E.5.3	DN150 High Capacity Hydrant		no		
3E.6	Sluice valves				
3E.6.1	100 SV		no		
3E.6.2	150 SV		no		
3E.6.3	225 SV		no		
3E.7	Restrained joints				
3E.7.1	300 Tee restrained joints		no		
3E.7.2	225 x 45° bend restrained joints		no		
3E.8	End caps				
3E.8.1	150 PVC-M End cap		no		
3E.8.2	225 DICL blank flange		no		
3E.9	Thrust blocks				
3E.9.1	N32 Concrete SL71 Reinforcement		m3		
3E.10	Anchor blocks		no		
3E.11	Scour stops				
3E.11.1	150 Scour stop		no		
3E.11.2	225 Scour stop		no		
3E.12	Trench stops				
3E.12.1	150 Trench stop		no		
3E.12.2	225 Trench stop		no		

Code	Description	Quantity	Unit	Rate	Total
MITS Underground Services					(Continued)
03					
3E.13	Pipe and Trench Protection				
3E.13.1	Concrete bedding		m3		
3E.13.2	Concrete encasing		m3		
3E.13.3	Bentonite collar		m3		
3E.14	Valve chambers				
3E.14.1	Air valve chamber Type A		no		
3E.14.2	Scour valve chamber Type C		no		
3E.14.3	Air valve chamber Type B		no		
3E.15	Scour installations				
3E.15.1	Scour installation Type A		no		
3E.15.2	Scour installation Type B		no		
3E.16	Contractor works on existing water supply				
3E.16.1	Connection to 300 main at CH200.0		LS		
3E.16.2	Disconnection of 150 main at CH0.0		LS		
3E.17	Works by the water supply authority		PS		
3E.18	Water service ties				
3E.18.1	25mm HDPE		m		
3E.18.2	32mm HDPE		m		
3E.19	Ready tap connectors				
3E.19.1	100 x 25 x 1 Tap		no		
3E.19.2	150 x 25 x 2 Tap		no		
3E.19.3	150 x 32 x 4 Tap		no		
3E.20	Water Meter		no		
	Sewerage systems reticulation				
3F.1	Sewer pipes				
3F.1.1	150 uPVC SN8: 0 to 1.5m depth		m		
3F.1.2	150 uPVC SN8: 1.5 to 3.0m depth		m		
3F.2	Sewer pipe fittings				
3F.2.1	100x150 Slope junction		no		
3F.2.2	100x225 Slope junction		no		
3F.2.3	100x30 Degree bend		no		
3F.3	Flexible joints				
3F.3.1	150mm dia Flexible joints		no		
3F.3.2	225mm dia Flexible joints		no		
3F.4	Sewer main dead ends				

Code	Description	Quantity	Unit	Rate	Total
MTS Underground Services					<i>(Continued)</i>
03					
3F.4.1	150mm dia Dead end		no		
3F.4.2	225mm dia Dead end		no		
3F.5	Sewer main sealing discs				
3F.5.1	150mm dia Sealing disc		no		
3F.5.2	225mm dia Sealing disc		no		
3F.6	Sewer tie dead ends				
3F.6.1	100mm dia end cap		no		
3F.6.2	150mm dia end cap		no		
3F.7	Scour stops				
3F.7.1	150mm dia Scour stop		no		
3F.7.2	225mm dia Scour stop		no		
3F.8	Trench stops				
3F.8.1	150mm dia Trench stop		no		
3F.8.2	225mm dia Trench stop		no		
3F.9	Connect to existing sewer structures				
3F.9.1	150mm dia connection to existing manhole		Each		
3F.9.2	300mm dia connection to existing manhole		Each		
3F.10	BVR		no		
3F.11	BVR > 0.45m		m		
3F.12	Sewer RP		no		
3F.13	Sewer MS		no		
3F.14	Sewer RP & MS Class D covers		no		
3F.15	Pipe and Trench Protection				
3F.15.1	Concrete bedding		m3		
3F.15.2	Concrete encasing		m3		
3F.16	Sewer MH				
3F.16.1	1050 SMH		no		
3F.16.2	1200 SMH		no		
3F.16.3	1500 SMH		no		
3F.17	Sewer MH >1.45m		m		
3F.18	Class D access covers		no		
3F.19	VD				
3F.19.1	150 Drop pipe		no		
3F.19.2	225 Drop pipe		no		
3F.19.3	300 Drop pipe		no		

Code	Description	Quantity	Unit	Rate	Total
MIT5 Underground Services					(Continued)
03					
3F.20	VD >Min Drop				
3F.20.1	150 Drop pipe > 0.45m		m		
3F.20.2	225 Drop pipe > 0.56m		m		
3F.20.3	300 Drop pipe > 0.68m		m		
3F.21	Ladders		no		
3F.22	Landings		no		
3F.23	Special chambered MH				
3F.23.1	Special chambered MH 1/1		no		
3F.23.2	Special chambered MH 1/2		no		
3F.24	Contractor works on existing sewer				
3F.24.1	Connection to existing MH 1/1		LS		
3F.24.2	Disconnection of existing stub 2/1-2/2		LS		
3F.24.3	Connection to existing sewer at new MH 3/1		LS		
3F.25	Works by the Sewer Authority		PS		
3F.26	CCTV Camera		m		
3F.27	Vacuum testing		no		
Service Conduits					
3G.1	Trenching for Service Authorities				
3G.1.1	HV Electrical only		LS		
3G.1.2	2 way Shared trench with gas and telecommunications		LS		
3G.1.3	3 way Shared trench with electricity, gas and telecommunications		LS		
3G.2	Conduit provision in a shared trench				
3G.2.1	23mm dia PVC (NBN)		LS		
3G.2.2	100mm dia PVC		LS		
3G.2.3	125mm dia PVC		LS		
3G.3	Gas Conduits		LS		
3G.4	Telecommunications Conduits		LS		
3G.4.1	2 x 100 mm diam Telstra conduit	100	m	36.00	3,600.00
3G.4.2	1 x 100 mm diam Optus conduit	46	m	18.00	828.00
3G.4.3	2 x 100 mm diam NBN conduit	100	m	36.00	3,600.00
3G.4.4	1 x 100 mm diam ITS conduit	4,800	m	18.00	86,400.00
3G.4.5	1 x 100 mm diam Transact conduit	100	m	18.00	1,800.00
3G.5	Electrical Conduits				
3G.1.1	1 x 50mm Street lighting		LS		
3G.1.2	3 x 125mm Electrical	150	m	54.00	8,100.00

Code	Description	Quantity	Unit	Rate	Total
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**MITS Underground Services
 03**

(Continued)

3G.1.3	6 x 125mm Electrical		LS		
3G.6	End caps				
3G.6.1	23mm dia PVC (NBN)		no		
3G.6.2	100mm dia PVC		no		
3G.6.3	125mm dia PVC		no		
3G.7	Installation of NBN Pit				
3G.7.1	P5		no		
3G.7.2	P6		no		
	Road Openings and Restorations				
3H.1	Subbase backfill under roads		m3		
3H.2	General Fill acceptable as backfill under paths and driveways		m3		
	Subsurface Drainage				
3I.1	Filter material for trench drains (Type A, B, E)		m		
3I.2	Filter material for Type A drainage mats (Type B, C, D)		m2		
3I.3	No fines concrete capping for trench drains		m		
3I.4	Endwall outlet structures for subsurface drainage pipes		no		
3I.5	Outlet to stormwater structures		no		
	Subsoil and Foundation Drains				
3J.1	Subsoil and foundation drains		m		
3J.2	Flushing points		no		
3J.3	Remove and relocate existing flushing point		no		
	Drainage Mats				
3K.1	Drainage mats		m2		
3K.2	Geotextile liner for subsurface drainage		m2		
3K.3	Drainage mat outlet pipe		m		
	Total Drainage				

2,131,180

Code	Description	Quantity	Unit	Rate	Total
MITS 04	Flexible Pavement Construction				
	Flexible Pavement Construction				
4.1	Base material				
4.1.1	DGB20 (traffic category A)				
4.1.1.1	145mm layer	5,730	m ²	15.90	91,107.00
4.1.2	DGB20 (traffic category D)				
4.1.2.1	120mm layer	1,426	m ²	13.10	18,680.60
4.1.2.2	125mm layer	2,550	m ²	13.10	33,405.00
4.1.2.3	150mm layer	2,356	m ²	15.90	37,460.40
4.2	Subbase material				
4.2.1	DGS20 (traffic category A)				
4.2.1.1	150mm layer	5,928	m ²	15.90	94,255.20
4.2.2	DGS20 (traffic category D)				
4.2.2.1	125mm layer	2,549	m ²	15.90	40,529.10
4.2.2.2	150mm layer	1,044	m ²	18.90	19,731.60
4.4	Supply and Spray Primer, Primerbinder				
	<i>AMC00</i>	140,027	Litres	6.42	898,506.58
	<i>C170</i>	126,613	Litres	6.42	812,433.42
4.4.3	Tac Coat	1,430	Litres	6.42	9,175.83
4.5	Supply and Spray Binder				
4.5.1	Class 240	0	Litres		
4.5.2	Class 450	0	Litres		
4.6	Supply, incorporate and spray cutter oil in binder				
4.7	Supply, incorporate and spray fulx oil in binder				
4.7.1	AC-HD 10 Corrective Course	0	Litres		
4.7.2	SMA 14 Wearing Course	0	Litres		
4.7.3	FGG-A Wearing Course	0	Litres		
4.8	Supply, Precoat, Apply and Incorporate aggregate				
4.8.1	5mm aggregate (precoated)	200	m ³	350.00	70,000.00
4.8.2	7mm aggregate (precoated)	430	m ³	350.00	150,500.00
4.9	Asphalt				
4.9.1	AC14 (C450 Binder) wearing course	10,106	t	322.00	3,254,132.00
4.9.2	AC14 (A15E Binder) wearing course	885	t	322.00	284,970.00
4.9.3	AC20 (C450 Binder) correction course	19,914	t	322.00	6,412,308.00
4.11	Mill Existing Pavement	4,537	m ²	97.00	440,089.00
4.13	Upper SMZ				

Code	Description	Quantity	Unit	Rate	Total
MITS Flexible Pavement Construction					<i>(Continued)</i>
04					
4.14	150mm layer Lower SMZ	12,584	m3	104.67	1,317,125.33
4.15	150mm layer Lower UMZ	9,524	m3	104.67	996,845.33
4.16	300mm layer Heavily Bound Subbase	15,484	m3	52.33	810,329.33
	Total Flexible Pavement	0	m3		
					15,791,584

Code	Description	Quantity	Unit	Rate	Total
MITS Minor Concrete Works					
06					
	Minor Concrete Works				
	Concrete Kerbs and Open Drains				
6A.1	Concrete lining of open drains				
6A.1.1	100mm		m ²		
6A.1.2	150mm	60	m ²	121.45	7,287.00
6A.1.3	200mm		m ²		
6A.2	Stone pitching of open drains	0	m ²		
6A.3	Batter drains	3,916	m ²	193.00	755,788.00
6A.4	Rip Rap	480	m ²	193.00	92,640.00
6A.5	Kerbs				
6A.5.1	KG	1,100	m	75.00	82,500.00
6A.5.2	KO		m		
6A.5.3	MK	1,524	m	75.00	114,300.00
6A.5.4	MKG		m		
6A.5.5	MLBK		m		
6A.5.6	OCI		m		
6A.5.7	SO	823	m	75.00	61,725.00
6A.6	Kerb reinforcement				
6A.6.1	KG	1,100	m	9.75	10,725.00
6A.6.2	KO	0	m		
6A.6.3	MK	1,524	m	9.75	14,859.00
6A.6.4	MKG	0	m		
6A.6.5	MLBK	0	m		
6A.6.6	OCI	0	m		
6A.6.7	SO	823	m	9.75	8,024.25
6A.7	Kerb ramps				
6A.7.1	1.5m path		no		
6A.7.2	2.0m path		no		
6A.7.3	2.5m path		no		
6A.7.4	3.0m path	10	no	1,250.00	12,500.00
6A.8	Vehicle crossings				
6A.8.1	15m unreinforced		no		
6A.8.2	10m unreinforced		no		
6A.8.3	7.5m reinforced		no		
6A.8.4	11m reinforced		no		

Code	Description	Quantity	Unit	Rate	Total
MITS Minor Concrete Works					<i>(Continued)</i>
06					
6A.9	Remove existing concrete kerb	3,792	m	7.25	27,492.00
6A.10	Rock filled gabions		m3		
6A.11	Rock filled wire mattresses				
6A.11.1	170mm		m ²		
6A.11.2	230mm		m ²		
6A.11.3	300mm		m ²		
6A.11.4	500mm		m ²		
6A.11.5	1,000mm		m ²		
Concrete Paths Driveways Medians					
6B.1	Paths, driveways, median toppings				
6B.1.1	75mm N25 Paths		m ²		
6B.1.2	100mm N25 Paths	28,039	m ²	85.00	2,383,315.00
6B.1.3	100mm N32 Paths		m ²		
6B.1.4	150mm N32 Paths		m ²		
6B.1.5	150mm N32 Driveways		m ²		
6B.1.6	150mm N32 Median toppings	0	m ²		
6B.2	Reinforcement for paths, driveways, median toppings				
6B.2.1	SL62 mesh single layer	450	m ²	7.10	3,193.55
6B.2.2	SL72 mesh single layer	11,880	m ²	8.23	97,722.58
6B.2.3	SL82 mesh single layer	15,709	m ²	9.19	144,421.45
6B.2.4	SL81 mesh double layer		m ²		
6B.3	Remove existing concrete		m ²		
6B.4	Bedding Sand 25mm	450	m ²	4.00	1,800.00
Total Minor Concrete					
					3,818,293

Code	Description	Quantity	Unit	Rate	Total
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**MITS Segmental Paving
 07**

	Segmental Paving				
7.1	Segmental Paving				
07.1.1	Segmental Paving – Road Pavements (Pattern and Thickness)		m ²		
07.1.2	Segmental Paving – Other Than Road Pavements (Pattern and Thickness)		m ²		
07.1.3	Tactile Pavers (Directional)		m ²		
07.1.4	Tactile Pavers (Warning)		m ²		

Code	Description	Quantity	Unit	Rate	Total
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**MITS Incidental Works
 08**

	Incidental Works				
	Fences and Barriers				
8A.1	Rural Fencing				
8A.1.1	Permanent rural fence	100	m	175.00	17,500.00
8A.1.2	Temporary rural fence		m		
8A.2	Gates				
8A.2.1	Ranger gate (...m Wide)		Each		
8A.2.2	Pedestrian access gate (...m Wide)		Each		
8A.3	Barrier fences				
8A.3.1	Partial Barrier Fence		m		
8A.3.2	Full Barrier Fence		m		
8A.4	Cycleway rails				
8A.4.1	Vehicle restriction rail		no		
8A.4.2	Single post cycle rest rail		no		
8A.4.3	Dual post cycle rest rail		no		
8A.5	Log barriers		m		
8A.6	Bollards				
8A.6.1	Steel bollard 1.8m		no		
8A.6.2	Timber bollard 1.6m		no		
	Play Equipment and Organic Surfacing				
8B.1	Soakage Pit		Item		
8B.2	Organic softfall		m ²		
8B.3	Playground Equipment		Item		
	Rubber Impact Attenuating Surfaces				
8C.1	Rubber softfall		m ²		
	Furniture and Fixtures				
8D.1	Decomposed Granite Gravel		m ²		
8D.2	Proprietary Furniture and Fixtures		Item		
8D.3	Installation and connection of Power Supply cable by Evoenergy		PS		
8D.4	Installation and connection of Power Supply cable by Licensed electrician		Item		
8D.5	Building Approval for shade sails		PS		
8	STRUCTURE No 17 (Bridge No 1320)				

Code	Description	Quantity	Unit	Rate	Total
MITS 08	Incidental Works				<i>(Continued)</i>
	Earthworks				
8.1.1	Excavation for slab footing (Provisional Quantity)	1,500	m3	29.35	44,025.00
8.1.2	Back fill over RCBC to subgrade level (Provisional Quantity)	600	m3	29.35	17,610.00
8.1.3	Demolish existing Wingwall	1	Item	4,500.00	4,500.00
	CULVERT UNDERPASS				
	Base Slab				
8.2.1	Supply and placement of 15 Mpa blinding concrete for base slab	3	m3	390.00	1,287.00
8.2.2	Supply and placement of 32Mpa concrete for base slab (Incl. joints and associated jointing material)	16.5	m3	390.00	6,435.00
8.2.3	Supply, fabrication and placement of steel reinforcement for base slab (Provisional Quantity)	2	t	3,560.00	7,120.00
	Precast Reinforced Concrete Box Culvert				
8.3.1	Supply and delivery of RCBC units	12	m	215.00	2,580.00
8.3.2	Installation of RCBC units in accordance with manufacturer's requirements (Incl. for back fill, waterproof membrane, sealing joints and grouting)	12	m	100.00	1,200.00
	Head Wall and Wing Walls				
8.4.1	Supply and placement of 15 Mpa blinding concrete for wall footings	2	m3	390.00	780.00
8.4.2	Supply and placement of 32 Mpa concrete for headwalls and wingwalls	20	m3	390.00	7,800.00
8.4.3	Supply, fabrication and placement of steel reinforcement for headwall and wingwalls (Provisional Quantity)	4	t	3,560.00	14,240.00
	Drainage				
8.5.1	100mm diameter subsoil drain including aggregate and geotextile	40	m	45.00	1,800.00
8.5.2	300mm wide concrete dish drain	36	m	85.00	3,060.00
	Barrier and Railings				
8.6.1	Cast in Situ Barriers. (Incl. concrete, reinforcement, joints etc)	50	m	453.69	22,684.50
8.6.2	Conduits including bends and capping (100 mm dia uPVC)	50	m	30.50	1,525.00
8.6.3	Galvanised steel railing (including accessories)				
8.6.3a	Supply	50	m	95.00	4,750.00
8.6.3b	Installation	50	m	35.00	1,750.00
					160,647

Code	Description	Quantity	Unit	Rate	Total
MITS Landscape					
09					
	Landscape				
	Topsoil				
9A.1	Topsoil – grass areas	69,800	m ²	6.50	453,700.00
9A.2	Topsoil – planting areas	5,350	m ²	6.50	34,775.00
9A.3	Topsoil amelioration	15,030	m ³	2.00	30,060.00
9A.4	Topsoil amelioration certification	1	m ³	650.00	650.00
	Grassing				
9B.1	Detailed excavation, filling and trimming, finishing of surfaces	69,800	m ²	0.75	52,350.00
9B.2	Grassing – seeding	69,800	m ²	2.50	
9B.3	Turfing		m ²		
9B.4	Grassing – Hydroseeding / Hydroturfing	7,040	m ²	2.25	
9B.5	Bitumen and Straw Mulching	69,800	m ²	2.50	174,500.00
9B.6	Consolidation	26	Weeks	1,350.00	35,100.00
	Planting				
9C.1	Preparation - Excavated Planting bed	5,350	m ²	0.00	
9C.2	Preparation - Unexcavated Planting bed		m ²		
9C.3A	Planting	26,750	Per plant	9.75	260,812.50
9C.3B	Planting - Tree	841	Per plant	156.00	131,196.00
9C.4	Excavation for planting in rock		m ³		
9C.5	Root control barrier		m		
9C.6	Mulching	535	m ³	65.00	34,775.00
9C.7	Consolidation	26	Weeks	0.00	
	Irrigation				
9D.1	Headworks		Item		
9D.2	Control system		no		
9D.3	Control system cabling		m		
9D.4	Pipe work		m		
9D.5	Valves		no		
9D.6	Sprinklers		no		
9D.7	Pumps and filters, housing etc		Item		
9D.8	Operations manual and WAE plans, warranties certificates of compliance		Item		
	Consolidation				
9E.1	Established vegetated area – Progress payment Year 1		no		
9E.2	Established vegetated area – Progress payment Year 2		m ²		
9E.3	Established vegetated area – Completion payment		m ²		

Code	Description	Quantity	Unit	Rate	Total
MITS 09	Landcape				(Continued)
					1,207,919

Code	Description	Quantity	Unit	Rate	Total
MITS	Concrete Works				
10					
	Concrete Works				
10.1	Sprayed Concrete		m2		1,070,498.73
10.2	Concrete Works		m3		427,589.26
10.3	Reinforcement		t		
10.4	Precast Units		no		3,048,220
					4,546,307

Code	Description	Quantity	Unit	Rate	Total
MITS Pavement Marking					
11					
	Pavement Marking				
11.1	Eradication of Redundant Pavement marking		LS		
11.2	Set Out of Pavement Marking		LS		
11.3	Paint – Longitudinal Lines				
11.3.1	Barrier Line (B1)		m		
11.3.2	Barrier Line (BS)		m		
11.3.3	Barrier Line (BB)	76	m	3.85	292.60
11.3.4	Parking Line (P1)		m		
11.3.5	Parking Line (P2)		m		
11.3.6	Parking Line (P3)		m		
11.3.7	Parking Line (P4)		m		
11.3.8	Dividing Line (S1-24)		m		
11.3.8.1	Path seperation line S4	20	m	3.85	77.00
11.3.8.2	Path seperation line S5	4,667	m	3.85	17,967.95
11.3.9	Dividing Line (S1-12)		m		
11.3.10	Dividing Line (SLL)		m		
11.3.11	Dividing Line (S6)		m		
11.3.12	Edge Line (E1)		m		
11.3.13	Edge Line (E3)		m		
11.3.14	Lane Line (L1)		m		
11.3.15	Lane Line (L8)	9,035	m	3.85	34,784.75
11.3.16	Path Line (SP1)		m		
11.3.17	Path Line (SP2)		m		
11.3.18	Lane Line (L9)	186	m	3.85	716.10
11.4	Paint –Symbols, Legends, Arrows, Chevrons, Traffic Islands and Kerbs				
11.4.1	White Gore (E6)	26	m	3.85	100.10
11.4.2	Chevron	25	m ²	38.00	950.00
11.4.3	Coloured Surface Coating per approved marking.		m ²		
11.4.3.1	Bicycle Lane green surface coating	480	m ²	22.50	10,800.00
11.4.4	Access Symbol Pavement Marking		m ²		
11.4.5	Bicycle Pavement Marking (Cycle, 1.8m x 1.1m)		m ²		
11.4.6	Bicycle Pavement Marking (Cyclist, 1.3m x 1.0m)		m ²		
11.4.7	Bicycle Pavement Marking (Cyclist, 1.0m x 0.85m)		m ²		
11.4.8	Pedestrian Pavement Marking (Walker 1.5m x 0.6m)		m ²		
11.4.9	Pedestrian Pavement Marking (Walker 1.0m x 0.6m)		m ²		

Code	Description	Quantity	Unit	Rate	Total
MITS Pavement Marking					<i>(Continued)</i>
11					
11.4.10	Arrow Path Marking		m ²		
11.4.11	Pavement Arrow (A10)		m ²		
11.4.12	Sharrow Pavement Marking (Large, 1.0m x 1.0m)		m ²		
11.4.13	Sharrow Pavement Marking (Multi and 2 arrows)		m ²		
11.4.14	Equestrian Symbol Path Marking		m ²		
11.4.15	Lettering "LANE"		m ²		
11.4.16	Lettering "END"		m ²		
11.4.17	Lettering "ONLY" path		m ²		
11.4.18	Lettering "AHEAD" path		m ²		
11.4.19	Slow Approach Path Patches(Series of 3)		m ²		
11.5	Paint - Transverse Lines				
11.5.1	Controlled Intersection (TB2)		m		
11.5.2	Give Way Line (TB3)		m		
11.5.3	Stop Line (SC2)		m		
11.6	Paint - Long Life Material (LLM) - Longitudinal Lines				
11.6.1	Barrier Line (B1)	335	m	3.85	1,289.75
11.6.2	Barrier Line (BS)		m		
11.6.3	Barrier Line (BB)		m		
11.6.4	Parking Line (P3)		m		
11.6.5	Merge Line (M1)	250	m	3.85	962.50
11.6.6	Merge Line (M2)	340	m	3.85	1,309.00
11.6.7	Edgeline (E1)	8,827	m	3.85	33,983.95
11.6.8	Edgeline (E3)	8,221	m	3.85	31,650.85
11.6.9	Lane Line (L4)		m		
11.6.10	Lane Line (L9)		m		
11.6.11	Turn Line (T1)		m		
11.6.12	Barrier Line (B2T)		m		
11.7	Long Life Material (LLM) - Transverse Lines				
11.7.1	Turn Line (T1)	68	m	3.85	261.80
11.7.2	Give Way Line (TB)	17	m	9.00	153.00
11.7.3	Short Taper (TB1)	72	m	3.85	277.20
11.7.4	Stop Line (SL1)	41	m	3.85	157.85
11.7.5	Stop Line (TF)		m		
11.7.6	Pedestrian Crosswalk Line (PCW)	171	m	75.00	12,825.00
11.7.7	Transverse Bicycle Crossing (TBC)		m		

Code	Description	Quantity	Unit	Rate	Total
MITS Pavement Marking					<i>(Continued)</i>
11					
11.7.8	Road Hump Marking (RHM)		m		
11.8	Long Life Material (LLM) - Symbols, Legends and Arrows				
11.8.1	Pavement Arrow (A1)		Each		
11.8.2	Pavement Arrow (A2)		Each		
11.8.3	Pavement Arrow (A3)	12	Each	125.00	1,500.00
11.8.4	Pavement Arrow (A4)		Each		
11.8.5	Pavement Arrow (A5)		Each		
11.8.6	Pavement Arrow (A6)		Each		
11.8.7	Pavement Arrow (A7)		Each		
11.8.8	Pavement Arrow (A8)		Each		
11.8.9	Pavement Arrow (A9)		Each		
11.8.10	Pavement Arrow (A10)		Each		
11.8.11	Arrow Path Marking		Each		
11.8.12	Sharrow Pavement Marking (Large, 1.0m x 1.0m)		Each		
11.8.13	Sharrow Pavement Marking (Multi and 2 arrows)		Each		
11.8.14	Lettering "FORM ONE LANE"	1	Each	125.00	125.00
11.8.15	Lettering "ONLY"		Each		
11.8.16	Lettering "KEEP CLEAR"		Each		
11.8.17	Lettering "BUS STOP"		Each		
11.8.18	Lettering "TAXI ONLY"		Each		
11.8.19	Lettering "MOTORCYCLE PARKING"		Each		
11.8.20	Lettering "LOADING ZONE"		Each		
11.8.21	Lettering "LANE"		Each		
11.8.22	Lettering "END"		Each		
11.8.23	Lettering "AHEAD"		Each		
11.8.24	Lettering "GIVE WAY AHEAD"		Each		
11.8.25	Bicycle Pavement Marking (Cycle, 1.8m x 1.1m)	47	Each	125.00	5,875.00
11.8.26	Bicycle Pavement Marking (Cyclist, 1.3m x 1.0m)		Each		
11.8.27	Bicycle Pavement Marking (Cyclist, 1.0m x 0.85m)		Each		
11.8.28	Pedestrian Pavement Marking (Walker 1.5m x 0.6m)		Each		
11.8.29	Pedestrian Pavement Marking (Walker 1.0m x 0.6m)		Each		
11.8.30	Equestrian Symbol Road Marking		Each		
11.8.31	Slow Approach Road Patches (Series of 3)		Each		
11.8.32	"ON-STREET" Street Without Paths Pavement Patch		Each		
	Long Life Material (LLM) - Symbols, Legends and Arrows				

Code	Description	Quantity	Unit	Rate	Total
MITS Pavement Marking					<i>(Continued)</i>
11					
11.9.1	Coloured Surface Coating		m ²		
11.9.2	Zebra Crossing (PX)		m ²		
11.9.3	Rumble Strip (RS)		m ²		
11.10	Installation of Retroreflective Raised Pavement Markers (RRPM)				
11.10.1	RRPM		no		
11.10.2	RRPM solar		no		
	Friction Testing		PS		
	Total Pavement Marking				156,059

Code	Description	Quantity	Unit	Rate	Total
MITS Traffic Signals					
13					
Traffic Signals					
13.1	Traffic signal post	8	no		
13.2	Pedestrian / Cyclist push-button post	0	no		
13.3	Mast arm post	2	no		
13.4	Mast arm and streetlight post				
13.4.1	10.5m light col/ 4.5m light outrno/ 8.5m signal outrno		no		
13.5	Joint use post				
13.5.1	10.5m light col/ 4.5m light outrno		no		
13.6	Vehicle signal lanterns	16	no	65,215.00	1,043,440.00
13.7	Pedestrian signal lanterns	6	no	22,500.00	135,000.00
13.8	Pedestrian push button assemblies				
13.8.1	Standard push button assembly (non audio)		no		
13.8.2	Audio tactile push button assembly	6	no	4,750.00	28,500.00
13.9	Control equipment	1	no		
13.10	Control cabinet extension	1	no		
13.11	Multi-core cabling	350	m		
13.12	Twin screen cabling	900	m		
13.13	Cable conduit				
13.13.1	1 x 50 dia. Conduit	170	m		
13.13.2	1 x 100 dia. Conduit	65	m		
13.13.3	1 x 140 dia. Conduit		m		
13.13.4	2 x 140 dia. Conduit	170	m		
13.14	Vehicle detector loops				
13.14.1	Vehicle detector loop	12	no		
13.14.2	Passage detector loop		no		
13.14.3	Cycle Scoot loop	1	no		
13.15	JC-1 Small conduit junction box	6	no		
13.16	JB-R Large conduit junction box	11	no		
13.17	Installation and connection of communications cable to new Signal Controller		Provisional Sum		

Code	Description	Quantity	Unit	Rate	Total
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MITS Traffic Signals
13

(Continued)

13.18	Installation and connection of Power Supply cable by Evoenergy to new Signal Controller			Provisional Sum	
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1,206,940

Code	Description	Quantity	Unit	Rate	Total
MITS Road Signs					
14					
	Road Signs				
14.1	Manufacture of Guide Signs		m ²		
14.2	Manufacture of Guide Sign support structures				
14.2.1	Steel Tubular Post Mounted		Tonnes		
14.2.2	Steel Tubular Post Mounted – Frangible		Tonnes		
14.2.3	Proprietary Fluted Aluminium Tubular Post Mounted – Frangible		Tonnes		
14.2.4	Overhead Gantry Mounted		Tonnes		
14.2.5	Overhead Cantilever Mounted		Tonnes		
14.3	Erection of Guide Sign support structures				
14.3.1	Steel Tubular Post Mounted		Number		
14.3.2	Steel Tubular Post Mounted – Frangible		Number		
14.3.3	Proprietary Fluted Aluminium Tubular Post Mounted – Frangible		Number		
14.3.4	Overhead Gantry Mounted		Number		
14.3.5	Overhead Cantilever Mounted		Number		
14.4	Erection of Guide Signs		m ²		
14.5	Dismantle and remove Guide Signs including structure	13	Number	450.00	5,850.00
14.6	Relocate Guide Sign	9	Number	2,500.00	22,500.00
14.7	Manufacture of General Signs	40	Number	125.00	5,000.00
14.8	Erection of General Signs support structure	40	Number	225.00	9,000.00
14.9	Dismantle and Remove General Signs	19	Number	75.00	1,425.00
14.10	Dismantle and Remove of General Signs support structure	19	Number	75.00	1,425.00
14.11	Relocate General Sign	22	Number	225.00	4,950.00
14.12	Provision of low maintenance sign socket system		Number		

50,150

Code	Description	Quantity	Unit	Rate	Total
MITS Road Furniture					
15					
	Road Furniture				
	Guide Posts				
15A.1	Guide posts	144	Number	55.00	7,920.00
15A.2	Removal of existing guide posts	100	Number	5.00	500.00
	Non Rigid Safety Barrier Systems				
15B.1	Single sided RSB	7,285	m	207.00	1,507,995.00
15B.2	Single sided RSB Terminal section	4	Number	0.00	
15B.3	Connectors to rigid RSB or bridge parapet	8	Number	0.00	
15B.4	Double sided RSB		m		
15B.5	Double sided RSB Terminal section		Number		
15B.6	Steel Wire Rope Barrier	4,071	m	155.00	631,005.00
15B.7	Steel Wire Rope Barrier Anchor Terminal	6	Number		
15B.8	Removal of RSB	990	m		
	Rigid Road Safety Barrier Systems				
15C.1	Road safety barrier	1,480	m	325.00	481,000.00
15C.2	Terminal ends	3	Number		
					2,628,420

Code	Description	Quantity	Unit	Rate	Total
MITS WSUD Features					
16					
	WSUD Features				
	Bio-Retention Systems				
16A.1	Liner Materials for Bioretention Systems				
16A.1.1	Geotextile		m ²		
16A.1.2	HDPE		m ²		
16A.2	Clay Liner Material for Bioretention Systems		m ³		
16A.3	Underdrainage Pipes		m		
16A.4	Underdrainage Risers		Number		
16A.5	Base / Drainage Layer		m ³		
16A.6	Transition Layer		m ³		
16A.7	Filtration Layer for Bioretention Systems		m ³		
16A.8	Maintenance Period		Weeks		
	Ponds				
16B.1	Clay Liner Material for Ponds		m ³		
16B.2	Filtration Layer for Ponds		m ³		
16B.3	HDPE/Geotextile Liner Materials for Ponds				
16B.3.1	Geotextile		m ²		
16B.3.2	HDPE		m ²		
16B.4	Rock Edge Protection Material		m ²		
16B.5	Maintenance Period		Weeks		
	Wetlands				
16C.1	Clay Liner Material for Wetlands		m ³		
16C.2	Filtration Layer for Wetlands		m ³		
16C.3	Maintenance Period		Weeks		
	Gross Pollutant Traps				
16D.1	Proprietary GPT (Insert Manufacturer Name and size)		Number		
16.D.2	Custom GPT (Insert size)		Number		
16.D.3	Davit unit and surround		Number		

Code	Description	Quantity	Unit	Rate	Total
00	MITS Preliminaries, Site Establishment and Management Costs				
	Preliminaries				
	General requirements				
0A.1	Site Establishment		Lump sum		
0A.2	Office for Authorised Person		Lump sum		
0A.3	Items from Principal	1	Each	62,400.00	62,400.00
0A.4	Temporary Site Perimeter Security Fence		m		
0A.5	Project Signs		Number		
0A.6	Coordination with Utility Authorities		Lump sum		
0A.7	Liaison and coordination with Adjoining Works Contractors		Lump sum		
0A.8	Liaison and coordination with Principal's Registered Surveyor for Block Pegging		Lump sum		
0A.9	Liaison and coordination with Principal's Geotechnical Engineer for Block Classification		Lump sum		
0A.10	Liaison and coordination with Principal's Cultural Heritage Consultant		Lump sum		
0A.11	Additional work required for staging of the works		Lump sum		
0A.12	Survey Set Out and Control	1	Lump sum	72,800.00	72,800.00
0A.13	Relocation/adjustment to existing services				
0A.13.1	Works by the Contractor		Provisional Sum		
0A.13.2	Works by the Service Authority		Provisional Sum		
0A.14	Additional Work		Provisional Sum		
0A.15	Removal of existing services and structures				
0A.15.1	Stormwater sewer and water supply pipes (various diameters)		m		
0A.15.2	Utilities (various size)		m		
0A.15.3	Structures (various structures)		Number		
0A.15.4	Kerb (various sizes and types)	200	m	5.00	1,000.00
0A.15.5	Path or concrete paving (various thickness)	65	m2	21.00	1,365.00
0A.16	Existing service location				
0A15.1	Sewer		Each		
0A15.2	Stormwater		Each		
0A15.3	Water		Each		
0A15.4	Gas		Each		
0A15.5	Electricity		Each		
0A15.6	Telstra		Each		
0A15.7	NBN		Each		