

Appendix N

Cost Estimate

<p align="center"> Rymal Road Class EA Design Option - 4.1 CLASS D - CONSTRUCTION COST ESTIMATE </p>	
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No.	Description	Spec	Unit	Quantity	Unit Price	Estimated Cost
ROADWAY						
1	Traffic Control	F-1010	LS	1	\$250,000	\$250,000.00
2	Pedestrian Control	F1013	LS	1	\$50,000	\$50,000.00
3	Erosion and Sediment Control	805, F-1005	LS	1	\$50,000	\$50,000.00
4	Contract Initiation	F-1006	LS	1	\$75,000	\$75,000.00
5	Earth Excavation - Pavement Widening	206, 510, F-2060, F-4104	m³	72,449	\$30	\$2,173,459.86
6	Cleaning and Grubbing	201	LS	1	\$150,000	\$150,000.00
7	Tree Removals	F-8047	ea	158	\$350	\$55,300.00
8	Removal of Asphalt	510	m³	9,560	\$38	\$361,261.76
9	Removal of Curb & Gutter	510	m	6,720	\$26	\$176,873.77
10	Removal of Median	510	m²	820	\$40	\$32,685.20
11	Removal of Concrete Sidewalk	510	m²	18,645	\$28	\$521,500.65
12	Granular A	314, 501, F-3147	t	64,479	\$43	\$2,783,571.78
13	Granular B	314, F-3147	t	128,959	\$32	\$4,138,282.06
14	Top Lift Asphalt	F-3101, F-3106, F-3130	t	19,544	\$226	\$4,416,885.15
15	Bottom Lift Asphalt	F-3101, F-3106, F-3130	t	39,087	\$264	\$10,319,094.52
16	Concrete Barrier with Gutter Curb	353, 904, F-3531, F-9040, F-9046	m	11,968	\$125	\$1,494,526.38
17	Concrete Barrier Curb	353, 904, F-3531, F-9040, F-9045	m	3,631	\$126	\$459,189.27
18	Multi-Use-Path		m²	15,030	\$57	\$859,422.83
19	Sod, Water Included	803, F-8031	m²	23,200	\$32	\$731,960.00
20	Topsoil	802, F-8021	m³	3,480	\$133	\$461,343.60
21	Median		m²	4,731	\$88	\$416,334.16
22	Concrete Sidewalk with Granular 'A'	351, F-3531, F-9040, F-9045	m²	13,078	\$88	\$1,157,158.25
23	Concrete Bus Pad with Granular 'A'		m²	1,023	\$88	\$90,500.88
24	Concrete Pad with Granular 'A'		m²	575	\$88	\$50,863.61
25	Pavement marking and signage		LS	1	\$250,000	\$250,000.00
ROAD SUB-TOTAL						\$31,525,213.73
ESTIMATION OF STORM SEWER COSTS						
23	Removal of catchbasin, incl. leads		ea	80	\$510	\$40,800.00
24	Installation of Catchbasins, incl. Standard Frame		ea	160	\$4,000	\$640,000.00
25	Installation of Leads		m	2,752	\$410	\$1,128,320.00
26	Storm Sewer (600 mm assumed), incl. trench/backfill		m	5,200	\$944	\$4,908,800.00
27	Subdrain		m	10,400	\$50	\$520,000.00
STORM SUB-TOTAL						\$7,237,920.00
UTILITIES						
1	Removal of Culvert	510	m	240	\$85	\$20,512.80
2	Replace utility poles		ea	310	\$20,000	\$6,200,000.00
3	Replace concrete utility poles		ea	73	\$17,000	\$1,241,000.00
4	Relocate Hydrants		ea	46	\$1,000	\$46,000.00
5	Relocate other hydro, telecom, fibre and gas		LS	1	\$2,300,000	\$2,300,000.00
UTILITIES SUB-TOTAL						\$9,807,512.80
STREETLIGHTING AND TRAFFIC CONTOL						
1	Streetlighting		ea	145	\$30,000	\$4,360,000.00
2	Traffic Control Signals, per Intersection		ea	13	\$150,000	\$1,950,000.00
STREETLIGHTING SUB-TOTAL						\$6,310,000.00
CONSTRUCTION TOTAL						\$54,880,646.53
Engineering and Architectural Services					7.5%	\$4,116,048.49
Property					5.0%	\$2,744,032.33
City Internal Costs					7.5%	\$4,116,048.49
SUB-TOTAL						\$65,856,775.84
Contingency					40.0%	\$21,952,258.61
TOTAL PRELIMINARY COST ESTIMATE						\$87,809,034.44