Appendix N

Cost Estimate

DILLON CONSULTING

Rymal Road Class EA
Design Option - 4.1
CLASS D - CONSTRUCTION COST ESTIMATE

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	m^3	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	m^3	9,560	$38	$361,261.76
9	Removal of Curb & Gutter	510	m	6,720	$26	$176,873.77
10	Removal of Median	510	m^2	820	$40	$32,685.20
11	Removal of Concrete Sidewalk	510	m^2	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		m^2	15,030	$57	$859,422.83
19	Sod, Water Included	803, F-8031	m^2	23,200	$32	$731,960.00
20	Topsoil	802, F-8021	m^3	3,480	$133	$461,343.60
21	Median		m^2	4,731	$88	$416,334.16
22	Concrete Sidewalk with Granular 'A'	351, F-3531, F-9040, F-9045	m^2	13,078	$88	$1,157,158.25
23	Concrete Bus Pad with Granular 'A'		m^2	1,023	$88	$90,500.88
24	Concrete Pad with Granular 'A'		m^2	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	**$87,809,034.46**