

Mineral Avenue Corridor Assessment Study
Construction Phasing Plan & Preliminary Cost Estimate

Phase	Target Year	Description	Location	Equipment	Quantity	Unit	Unit Cost	Cost	Installors	Notes						
1A	2016	Side Street Provisional Improvements	Wolff Street, Dusk Court & Polo Ridge Drive North Approaches to Mineral Avenue	Crosswalk Paint	500	SF	\$ 2.50	\$ 1,250.00	City	Interim improvement until raised crosswalks installed						
				Trail Signage	21	Each	\$ 75.00	\$ 1,575.00	City							
				Pedestrian Signal Blank Out Signs	2	Each	\$ 3,000.00	\$ 6,000.00	WL							
				Wiring	1	LS	\$ 1,000.00	\$ 1,000.00	WL							
				Traffic Control	1	Day	\$ 1,000.00	\$ 1,000.00	WL							
				Subtotal								\$ 10,825.00				
1B	2016	Mineral Avenue Lane Reassignment	Mineral Avenue - Platte Canyon Road to Polo Ridge Drive	Removal of Pavement Marking	1	LS	\$ 3,200.00	\$ 3,200.00	Contractor	Could be completed by City						
				Pavement Marking Paint	1	LS	\$ 9,450.00	\$ 9,450.00	Contractor							
				Traffic Control	3	Day	\$ 1,000.00	\$ 3,000.00	Contractor							
				Mobilization	1	LS	\$ 2,500.00	\$ 2,500.00	Contractor							
				Contingency	15%			\$ 2,800.00	Contractor							
				Left Arrows (Epoxy)	18	Each	\$ 275.00	\$ 4,950.00	Contractor		Could be completed by City					
				Right Arrows (Epoxy)	14	Each	\$ 275.00	\$ 3,850.00	Contractor		Could be completed by City					
				Delineators	50	Each	\$ 75.00	\$ 3,750.00	Contractor		Could be completed by City					
				Sign - Right Lane Must Turn Right	7	Each	\$ 75.00	\$ 525.00	City							
				Sign - Speed Limit (40 mph)	8	Each	\$ 75.00	\$ 600.00	City							
				Sign - Specific U-turn Locations	3	Each	\$ 75.00	\$ 225.00	City							
				Sign - Do Not Block Intersection	2	Each	\$ 75.00	\$ 150.00	City							
				Subtotal								\$ 35,000.00				
											\$ 45,825.00					
Phase	Target Year	Description	Location	Equipment	Quantity	Unit	Unit Cost	Cost	Installors	Notes						
2A	2017	Intersection Improvements	Mineral Avenue/Platte Canyon Road Intersection	Removal of Pavement Marking	1	LS	\$ 2,000.00	\$ 2,000.00	Contractor	Assuming no mast arm extensions						
				Pavement Marking Epoxy/Thermo	1	LS	\$ 9,100.00	\$ 9,100.00	Contractor							
				Left Arrow (Epoxy)	9	Each	\$ 275.00	\$ 2,475.00	Contractor							
				Right Arrow (Epoxy)	4	Each	\$ 275.00	\$ 1,100.00	Contractor							
				Reset Traffic Signal Head	4	Each	\$ 400.00	\$ 1,600.00	WL							
				New Traffic Signal Head (12-12-12-12)	8	Each	\$ 1,350.00	\$ 10,800.00	WL		Alternatively 12-12-12 Arrows					
				Video Detectors	4	Each	\$ 2,500.00	\$ 10,000.00	WL		Upgrade, not necessary					
				Video Card	1	Each	\$ 4,000.00	\$ 4,000.00	WL		Upgrade, not necessary					
				MMU	1	Each	\$ 1,000.00	\$ 1,000.00	WL							
				Traffic Controller	1	Each	\$ 2,300.00	\$ 1,000.00	WL		Cobalt Controller					
				Wiring	1	LS	\$ 5,000.00	\$ 5,000.00	WL							
				Sign - Lane Utilization (Ground Mount)	2	Each	\$ 100.00	\$ 200.00	WL							
				Sign - Double Left (Mast Arm)	2	Each	\$ 75.00	\$ 150.00	WL							
				Pedestrian Pole	1	Each	\$ 5,000.00	\$ 5,000.00	WL		Installed with Caisson					
				Reset Pedestrian Head	2	Each	\$ 400.00	\$ 800.00	WL							
				Reset Pedestrian Push Button	2	Each	\$ 200.00	\$ 400.00	WL							
				Pull Box	1	Each	\$ 300.00	\$ 300.00	WL							
				Conduit	40	LF	\$ 75.00	\$ 3,000.00	WL		Installed					
				Removal of Concrete	15	SY	\$ 100.00	\$ 1,500.00	Contractor		Channelization Island					
				Removal of Asphalt	5	SY	\$ 20.00	\$ 100.00	Contractor		Channelization Island					
				Median Curb & Gutter	100	LF	\$ 20.00	\$ 2,000.00	Contractor		Channelization Island					
				Concrete Median Paving	15	SY	\$ 50.00	\$ 750.00	Contractor		Channelization Island					
				Concrete Patching	10	SY	\$ 100.00	\$ 1,000.00	Contractor		Channelization Island					
				Asphalt Patching	5	SY	\$ 85.00	\$ 425.00	Contractor		Channelization Island					
				Truncated Domes	4	Each	\$ 250.00	\$ 1,000.00	Contractor		Channelization Island					
				Traffic Control	7	Day	\$ 1,000.00	\$ 7,000.00	Contractor							
				Traffic Control	3	Day	\$ 1,000.00	\$ 3,000.00	WL							
				Mobilization	1	LS	\$ 5,000.00	\$ 5,000.00	Contractor							
				Contingency	15%			\$ 12,000.00								
				Subtotal								\$ 91,700.00				
											\$ 91,700.00					
				Phase	Target Year	Description	Location	Equipment	Quantity		Unit	Unit Cost	Cost	Installors	Notes	
3A	2018	Mineral Drive Full Movement Access	Platte Canyon Drive/Mineral Drive Intersection	Removal of Pavement Marking	1	LS	\$ 1,100.00	\$ 1,100.00	Contractor	Xcel Energy Utility Box in Mineral Drive						
				Removal of Curb & Gutter	200	LF	\$ 20.00	\$ 4,000.00	Contractor							
				Removal of Concrete	150	SY	\$ 100.00	\$ 15,000.00	Contractor							
				Sawcutting	200	LF	\$ 3.00	\$ 600.00	Contractor							
				Removal of Asphalt	35	SY	\$ 20.00	\$ 700.00	Contractor							
				Median Curb & Gutter	200	LF	\$ 20.00	\$ 4,000.00	Contractor							
				Concrete Median Paving	30	SY	\$ 50.00	\$ 1,500.00	Contractor							
				Truncated Domes	6	Each	\$ 250.00	\$ 1,500.00	Contractor							
				Asphalt Patching	25	SY	\$ 85.00	\$ 2,125.00	Contractor							
				Asphalt Paving	130	SY	\$ 50.00	\$ 6,500.00	Contractor							
				Pavement Marking Epoxy/Thermo	1	LS	\$ 9,100.00	\$ 9,100.00	Contractor							
				Left Arrow (Epoxy)	3	Each	\$ 275.00	\$ 825.00	Contractor							
				Right Arrow (Epoxy)	1	Each	\$ 275.00	\$ 275.00	Contractor							
				Sign Relocation	2	Each	\$ 150.00	\$ 300.00	Contractor							
				Sign Removal	2	Each	\$ 150.00	\$ 300.00	Contractor							
				Sign - Stop	1	Each	\$ 250.00	\$ 250.00	Contractor							
				Utility Relocation	1	LS	\$ -	\$ -	Contractor							
				Traffic Control	1	LS	\$ 15,000.00	\$ 15,000.00	Contractor							
				Mobilization	1	LS	\$ 10,000.00	\$ 10,000.00	Contractor							
				Contingency	15%			\$ 11,000.00	Contractor							
				Survey	1	LS	\$ 7,500.00	\$ 7,500.00	Consultant							
Design	1	LS	\$ 15,000.00	\$ 15,000.00	Consultant											
Subtotal							\$ 106,575.00									
3B	2018	Side Street Ultimate Improvements	Wolff Street, Dusk Court & Polo Ridge Drive North Approaches to Mineral Avenue	Pedestrian Ramp Removal	6	Each	\$ 500.00	\$ 3,000.00	Contractor	Wolff Street						
				Curb & Gutter Removal	360	LF	\$ 20.00	\$ 7,200.00	Contractor							
				Sawcutting	540	LF	\$ 3.00	\$ 1,620.00	Contractor							
				Removal of Concrete	750	SY	\$ 100.00	\$ 75,000.00	Contractor							
				Removal of Asphalt	300	SY	\$ 20.00	\$ 6,000.00	Contractor							
				Curb & Gutter	360	LF	\$ 20.00	\$ 7,200.00	Contractor							
				Sidewalk	180	LF	\$ 100.00	\$ 18,000.00	Contractor							
				Raised Pedestrian Crossing	3	Each	\$ 10,000.00	\$ 30,000.00	Contractor							
				Asphalt Patching	25	SY	\$ 85.00	\$ 2,125.00	Contractor							
				Concrete Patching	10	SY	\$ 100.00	\$ 1,000.00	Contractor							
				Speed Table Paint Markings	6	Each	\$ 350.00	\$ 2,100.00	Contractor							
				Landscaping	1	LS	\$ 15,000.00	\$ 15,000.00	Contractor							
				Chase Drain	2	Each	\$ 2,000.00	\$ 4,000.00	Contractor							
				Sign Relocation	3	Each	\$ 150.00	\$ 450.00	Contractor							
				Signage	6	Each	\$ 250.00	\$ 1,500.00	Contractor							
				Traffic Control	1	LS	\$ 15,000.00	\$ 15,000.00	Contractor							
				Mobilization	1	LS	\$ 5,000.00	\$ 5,000.00	Contractor							
Contingency	15%			\$ 29,200.00	Contractor											
Survey	1	LS	\$ 7,500.00	\$ 7,500.00	Consultant											
Design	1	LS	\$ 15,000.00	\$ 15,000.00	Consultant											
Subtotal							\$ 245,895.00									
							\$ 352,470.00									

Project Totals	
Phase 1	\$45,825
Phase 2	\$91,700
Phase 3	\$352,470
Total	\$489,995