

INNOVATE 680							
PROJECT: SHARED MOBILITY HUBS FEASIBILITY STUDY							
Conceptual Draft Cost Estimate							
BOLLINGER CANYON SHARED MOBILITY HUB							
Item	Description	Estimated Quantity	Unit	Unit Cost	Total Cost	Comment	
TRANSIT AMENITIES							
1	Real Time Travel Information	1	EA	\$ 17,000	\$ 17,000		
2	Fare Vending Machines	2	EA	\$ 250,000	\$ 500,000		
3	Battery Electric Bus Charging Stations	3	EA	\$ 60	\$ 180	Assumes charger and dual-wand charging (minor conduit cost), new service is accounted for below under item #36. Additional 900k-1.2m would need to be added for battery electric storage system, if desired	
Enhanced Transit Waiting Areas							
4	Shelters	4	EA	\$ 35,000	\$ 140,000	Assume custom shelters	
5	Benches	4	EA	\$ 5,000	\$ 20,000		
6	Lighting	1	LS	\$ 200,000	\$ 200,000		
7	Security	1	LS	\$ 40,000	\$ 40,000		
4	Curb & Gutter Reconstruction	650	LF	\$ 60	\$ 39,000		
5	Bus Area Repaving	15,000	SF	\$ 15	\$ 225,000		
6	Transit Waiting Area	6,000	SF	\$ 10	\$ 60,000		
					SUBTOTAL \$	1,241,180	
BICYCLE AMENITIES							
7	Electric Bike Charging Stations	20	EA	\$ 10,250	\$ 205,000		
8	Bicycle Parking - Automated Valet Room (small)	20	EA	\$ 2,500	\$ 50,000	Assume structures similar to automatic bike lockers	
9	Bicycle Repair Stations	2	EA	\$ 5,000	\$ 10,000		
					SUBTOTAL \$	265,000	
PEDESTRIAN AMENITIES							
Public Space							
10	Landscaping	1	LS	\$ 100,000	\$ 100,000	Completely new public space required	
11	Lighting	1	LS	\$ 200,000	\$ 200,000		
					SUBTOTAL \$	300,000	
MOTORIZED SERVICES & AMENITIES							
12	Electric Vehicle Charging Station	20	EA	\$ 18,450	\$ 369,000		
Passenger Loading Zones							
13	Curb and Gutter Reconstruction	900	LF	\$ 60	\$ 54,000	Assume entire perimeter of PUDO area and mobile retail area	
14	Parking Area Repaving	3,500	SF	\$ 9	\$ 31,500	Assume entire PUDO area repaved	
15	Parking Area Recognition	1,600	SF	\$ 5	\$ 8,000		
Real-Time Parking Availability							
16	Parking Signage (Static)	1	LS	\$ 25,000	\$ 25,000		
17	Parking Space Availability Sensors	109	Space	\$ 400	\$ 43,600		
18	Real-time occupancy digital signage and backroom hardware/software	1	EA	\$ 30,000	\$ 30,000		
					SUBTOTAL \$	561,100	
SUPPORT SERVICES & AMENITIES							
19	Wi-Fi and Device Charging	5	EA	\$ 1,700	\$ 8,500		
20	Package Delivery Stations	1	LS	\$ 12,000	\$ 12,000		
21	Wayfinding	1	LS	\$ 100,000	\$ 100,000		
22	Information Kiosks	2	EA	\$ 20,000	\$ 40,000		
23	Mobile Retail Services - Utility Connections	1	EA	\$ 15,000	\$ 15,000		
24	Solar Panel Canopy	11,000	SF	\$ 60	\$ 660,000		
25	Monumentation	2	EA	\$ 100,000	\$ 200,000		
					SUBTOTAL \$	1,035,500	
HARDSCAPE IMPROVEMENTS							
Off-site Improvements							
26	Transit Signal Priority + Signal Modifications	3	EA	\$ 40,000	\$ 120,000	Assuming additional improvements are needed for each of 3 intersections.	
27	Signal Modifications	2	EA	\$ 100,000	\$ 200,000	For dedicated transit lane	
28	Dedicated Transit Lanes	200	LF	\$ 400	\$ 80,000	Assume red painted concrete and minor curb work	
29	Bikeways - Re-striping	3,800	LF	\$ 5	\$ 19,000		
30	Bikeways - Off-street Path Construction	55,000	SF	\$ 7	\$ 385,000	Assume off-street path construction; includes base and pavement	
31	Bikeways - Bollinger Canyon OH Modification	1	LS	\$ 350,000	\$ 350,000	Includes modification to Bollinger Canyon Bridge (Moving Type K Rail, On-Ramp Reconfiguration, and other structural modifications)	
32	Pedestrian Walkways	1,000	LF	\$ 100	\$ 100,000		
33	RRFBs	1	EA	\$ 50,000	\$ 50,000		
34	Bulbouts	4	EA	\$ 25,000	\$ 100,000		
35	Pedestrian Crossings	11,500	SF	\$ 50	\$ 575,000	Assume crosswalk striping	
36	Curb & Gutter Replacement	800	LF	\$ 60	\$ 48,000	Assume access point off Harness Drive and Bollinger Canyon Rd	
37	New Service for EV Charging Stations	1	LS	\$ 800,000	\$ 800,000	Cost roughly based on Summit County Transit HQ and scaled down (10 chargers at SC, 2 at Bollinger Canyon); assumes equipment and conduits	
38	Utility Relocations	-	LS	\$ 100,000	\$ 150,000		
					SUBTOTAL \$	2,977,000	

	Feasibility Study	2024\$
CON Capital (Base)	\$ 6,379,780.00	\$ 6,409,231
30% Contingency	\$ 1,913,934	\$ 1,922,769
CON + Contingency	\$ 8,293,714	\$ 8,332,000
CM	\$ 1,492,869	\$ 1,493,000
CON+Contingency+C	\$ 9,786,583	\$ 9,825,000
O&M (Annual)	\$	206,250