

SMART<sup>2</sup> Network - Estimate of Probable Costs

	Quantity	Cost	Unit	Total
<b>Roadway Construction Costs</b>				
<b>Commerce Street</b>				
6' Benches	10	\$3,500	EA	\$35,000
Bike Racks	2	\$725	EA	\$1,450
Decorative Crosswalks (10' width)	92	\$200	SY	\$18,400
Flexible Barrier Posts at Bike Lane	3200	\$6	LF	\$19,200
Landscape Median	2400	\$10	SY	\$24,000
New Roadway	2893	\$190	SY	\$549,670
Painted (Green) Bike Lane	1300	\$15	SY	\$19,500
Pavement Striping	6425	\$1	LF	\$5,140
Signage and Wayfinding	80	\$220	EA	\$17,600
Trash Receptacles	4	\$2,800	EA	\$11,200
Trees, Shrubs, Perennials	740	\$40	SY	\$29,600
			<b>Total:</b>	\$730,760
<b>Federal Street</b>				
6' Benches	8	\$3,500	EA	\$28,000
Bike Racks	2	\$725	EA	\$1,450
Flexible Barrier Posts at Bike Lane	1665	\$6	LF	\$9,990
Painted (Green) Bike Lane	1280	\$15	SY	\$19,200
Pavement Striping	4435	\$1	LF	\$3,548
Signage and Wayfinding	80	\$220	EA	\$17,600
Trash Receptacles	4	\$2,800	EA	\$11,200
			<b>Total:</b>	\$90,988
<b>Fifth Avenue</b>				
14' Decorative Concrete or Brick Pavers	4158	\$150	SY	\$623,700
6' Benches	28	\$3,500	EA	\$98,000
Bike Racks	8	\$725	EA	\$5,800
Bridge over 422	567	\$10	SY	\$5,670
Concrete curb at bio cell landscaping	8864	\$20	LF	\$177,280
Curb and gutter	19480	\$25	LF	\$491,710
Decorative Crosswalks (10' width)	3120	\$200	SY	\$624,000
Decorative Intersections (asphalt)	2780	\$500	SY	\$1,390,000
Decorative Lighting	32	\$15,000	EA	\$480,000
Demolish Signals	1	\$18,642	EA	\$18,642
Earthwork - Fill for shared use path on Fifth Ave	100	\$50	CY	\$5,000
Fifth Ave Demo (existing ROW limits)	35290	\$12	SY	\$423,480
Flexible Barrier Posts at Bike Lane	6090	\$6	LF	\$36,540
HAWK Ped crossing system at stadium	1	\$95,000	EA	\$95,000
Landscape Median	3393	\$10	SY	\$33,930
LED Street Lighting	58	\$12,000	EA	\$696,000
New Roadway	18684	\$190	SY	\$3,549,960
Painted (Green) Bike Lane	4684	\$15	SY	\$70,260
Pavement Striping	28542	\$1	LF	\$22,834
Sculptural Gateway	2	\$25,000	EA	\$50,000
Signage and Wayfinding	148	\$220	EA	\$32,560
Stormwater Improvements	1	\$1,300,000	EA	\$1,300,000
Trash Receptacles	14	\$2,800	EA	\$39,200
Trees, Shrubs, Perennials	6750	\$40	SY	\$270,000
			<b>Total:</b>	\$10,539,565
<b>Front Street</b>				
6' Benches	8	\$3,500	EA	\$28,000
Bike Racks	8	\$725	EA	\$5,800
Decorative Crosswalks (10' width)	600	\$200	SY	\$120,000
Flexible Barrier Posts at Bike Lane	4800	\$6	LF	\$28,800
Landscape Median	2180	\$10	SY	\$21,800
New Roadway	6769	\$190	SY	\$1,286,110
Painted (Green) Bike Lane	3640	\$15	SY	\$54,600
Pavement Striping	14220	\$1	LF	\$11,376
Signage and Wayfinding	70	\$220	EA	\$15,400
Trash Receptacles	4	\$2,800	EA	\$11,200
Trees, Shrubs, Perennials	882	\$40	SY	\$35,280
			<b>Total:</b>	\$1,618,366
<b>Rayen Avenue</b>				
6' Benches	22	\$3,500	EA	\$77,000
Bike Racks	4	\$725	EA	\$2,900
Decorative Crosswalks (10' width)	432	\$200	SY	\$86,400
Decorative Lighting	4	\$15,000	EA	\$60,000
Flexible Barrier Posts at Bike Lane	7500	\$6	LF	\$45,000
Landscape Median	3672	\$10	SY	\$36,720

## SMART<sup>2</sup> Network - Estimate of Probable Costs

	Quantity	Cost	Unit	Total
<i>New Roadway</i>	20986	\$190	SY	\$3,987,340
<i>Painted (Green) Bike Lane</i>	5280	\$15	SY	\$79,200
<i>Pavement Striping</i>	15600	\$1	LF	\$12,480
<i>Signage and Wayfinding</i>	104	\$220	EA	\$22,880
<i>Trash Receptacles</i>	4	\$2,800	EA	\$11,200
<i>Trees, Shrubs, Perennials</i>	1222	\$40	SY	\$48,880
			<b>Total:</b>	<b>\$4,470,000</b>

### Phelps Street

<i>6' Benches</i>	4	\$3,500	EA	\$14,000
<i>Bike Racks</i>	2	\$725	EA	\$1,450
<i>Pavement Striping</i>	842	\$1	LF	\$674
<i>Phelps Complete Streets</i>	1	\$250,000	EA	\$250,000
<i>Signage and Wayfinding</i>	46	\$220	EA	\$10,120
<i>Trash Receptacles</i>	4	\$2,800	EA	\$11,200
			<b>Total:</b>	<b>\$287,444</b>

### Park Avenue

<i>6' Benches</i>	5	\$3,500	EA	\$17,500
<i>Bike Racks</i>	2	\$725	EA	\$1,450
<i>Flexible Barrier Posts at Bike Lane</i>	1200	\$6	LF	\$7,200
<i>Landscape Median</i>	1744	\$10	SY	\$17,440
<i>Painted (Green) Bike Lane</i>	1400	\$15	SY	\$21,000
<i>Pavement Striping</i>	3800	\$1	LF	\$3,040
<i>Signage and Wayfinding</i>	36	\$220	EA	\$7,920
<i>Trash Receptacles</i>	4	\$2,800	EA	\$11,200
			<b>Total:</b>	<b>\$86,750</b>

**Roadway Construction Costs Total: \$17,823,873**

## Multimodal Infrastructure and Equipment Costs

### Bel Park Transit Hub at Mercy Health

<i>10'x20' Shelter with Canopy</i>	4	\$95,000	EA	\$380,000
<i>Decorative Benches</i>	8	\$3,500	EA	\$28,000
<i>Decorative Lighting</i>	12	\$15,000	EA	\$180,000
<i>Landscaping</i>	285	\$30	SY	\$8,550
<i>Concrete Curb</i>	424	\$30	LF	\$12,720
<i>Decorative Concrete/Pavers</i>	488	\$100	SY	\$48,750
<i>Decorative Paved Multimodal Roadway</i>	537	\$200	SY	\$107,444
<i>Concrete Bus Pad - 8'</i>	320	\$250	SY	\$80,000

### Transit Components

<i>6'x10' Shelter with Canopy</i>	22	\$35,000	EA	\$770,000
<i>Decorative Paving (10'x15')</i>	367	\$90	SY	\$33,000
<i>Bike Racks (1 per mini-hub)</i>	22	\$725	EA	\$15,950
<i>Decorative Benches (1 per mini-hub)</i>	22	\$3,500	EA	\$77,000
<i>Trash Receptacles</i>	22	\$2,850	EA	\$62,700

### Other Multimodal Infrastructure and Equipment

<i>Autonomous Shuttle</i>	2	\$370,000	EA	\$740,000
<i>Bikeshare System</i>	6	\$50,000	EA	\$300,000
<i>Amphitheater Trail Extension</i>	1	\$850,000	EA	\$850,000
<i>Center City Bike Trail</i>	1	\$423,000	EA	\$423,000

**Multimodal Infrastructure and Equipment Costs Total: \$4,117,114**

**Project Subtotal: \$21,940,988**

## Professional Services

<i>Preliminary Engineering</i>	3%	\$658,230
<i>Final Design</i>	5%	\$1,097,049
<i>Construction Administration &amp; Management</i>	4%	\$877,640
<i>Professional Liability and other Non-Construction Insurance</i>	1%	\$219,410
<i>Legal; Permits; Review Fees by other agencies, cities, etc.</i>	1%	\$219,410
<i>Surveys, Testing, Investigation, Inspection</i>	1%	\$164,557

**Professional Services Total: \$3,236,296**

## Contingency

<i>Contingency</i>	5%	\$1,097,049
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**Contingency Total: \$1,097,049**

**Total Project Cost: \$26,274,333**