

## City of Fresno

### Active Transportation Plan

#### Sidewalk Improvements Cost Estimate



#### High Priority Sidewalk Network Cost Estimate

Improvements	Quantity	Unit	Unit Cost	Item Total
Site Preparation and Removal	1980000	SF	\$ 5.00	\$ 9,900,000.00
6" Sidewalk Concrete	1980000	SF	\$ 15.00	\$ 29,700,000.00
Drainage Control	1	LS	\$ 396,000.00	\$ 396,000.00
<b>Sub-Total</b>				<b>\$ 39,996,000.00</b>
<b>Traffic Control and Mobilization (12.5%)</b>				\$ 4,999,500.00
<b>Contingency (10%)</b>				\$ 4,499,600.00
<b>Total Construction Cost</b>				\$ 49,495,100.00
<b>Design and Construction Administration (20%)</b>				\$ 9,899,100.00
<b>Project Total</b>				<b>\$ 59,394,200.00</b>

#### Medium Priority Sidewalk Network Cost Estimate

Improvements	Quantity	Unit	Unit Cost	Item Total
Site Preparation and Removal	8490240	SF	\$ 5.00	\$ 42,451,200.00
6" Sidewalk Concrete	8490240	SF	\$ 15.00	\$ 127,353,600.00
Drainage Control	1	LS	\$ 1,698,048.00	\$ 1,698,048.00
<b>Sub-Total</b>				<b>\$ 171,502,848.00</b>
<b>Traffic Control and Mobilization (12.5%)</b>				\$ 21,437,900.00
<b>Contingency (10%)</b>				\$ 19,294,100.00
<b>Total Construction Cost</b>				\$ 212,234,900.00
<b>Design and Construction Administration (20%)</b>				\$ 42,447,000.00
<b>Project Total</b>				<b>\$ 254,681,900.00</b>

#### Low Priority Sidewalk Network Cost Estimate

Improvements	Quantity	Unit	Unit Cost	Item Total
Site Preparation and Removal	7951680	SF	\$ 5.00	\$ 39,758,400.00
6" Sidewalk Concrete	7951680	SF	\$ 15.00	\$ 119,275,200.00
Drainage Control	1	LS	\$ 1,590,336.00	\$ 1,590,336.00
<b>Sub-Total</b>				<b>\$ 160,623,936.00</b>
<b>Traffic Control and Mobilization (12.5%)</b>				\$ 20,078,000.00
<b>Contingency (10%)</b>				\$ 18,070,200.00
<b>Total Construction Cost</b>				\$ 198,772,200.00
<b>Design and Construction Administration (20%)</b>				\$ 39,754,500.00
<b>Project Total</b>				<b>\$ 238,526,700.00</b>

#### Cost Estimate Assumptions and Breakdown

##### Cost Estimate Assumptions:

- o Sidewalk width is 6 feet, consistent with ADA compliance and standard city drawings.
- o Existing curb and gutter are assumed to be in good condition and will remain in place (i.e., no curb and gutter replacement included).
- o Curb ramp installation is excluded from this estimate.
- o In segments where a planter strip between roadway and sidewalk is feasible, no cost is included for planter area improvements or landscaping.

##### Unit Cost Assumptions:

- o Site preparation and removal is estimated at \$5.00 per square foot, covering demolition and clearing of the existing surface.
- o 6" concrete sidewalk installation is estimated at \$15.00 per square foot, including materials, forming, pouring, and finishing.
- o Drainage control is included as a lump sum (LS) item, calculated as 1% of the total cost of site preparation and sidewalk concrete.

##### Cost Breakdown Includes:

- o Subtotal of Site Preparation, Sidewalk Installation, and Drainage Control
- o Traffic Control and Mobilization at 12.5% of subtotal
- o Contingency at 10% of subtotal
- o Design and Construction Administration at 20% of construction cost

**City of Fresno**  
Active Transportation Plan



**Priority Bike Network Cost Estimate**

Project Street(s) or Canals	Project Limits	City Council District	Proposed Bike Lane Class Type(s)	Total (Miles)	Existing (Miles)	Existing Bike Lane (%)	Class-I		Class-II		Class-II Buffer		Class-III		Class-IV		Total Project Cost
							Length (Miles)	Cost	Length (Miles)	Cost	Length (Miles)	Cost	Length (Miles)	Cost	Length (Miles)	Cost	
Airways Blvd	E Dakota Ave to N Clovis Ave	4	I	1.27	0	0%	1.27	\$ 1,478,661.00		\$ -	0	\$ -	0	\$ -	0.00	\$ -	\$ 1,478,700.00
Audubon Dr to Nees Ave to N Palm Ave	N First St to W Herndon Ave	2,6	II,II-B, IV	6.2	2.08	34%		\$ -	0.68	\$ 160,636.36	3.34	\$ 894,037.50		\$ -	2.10	\$ 664,440.00	\$ 1,719,200.00
Barstow Ave	N Valentine Ave to Willow Ave	2,4	I,II, IV	15	6.44	43%	1.04	\$ 1,212,812.50	5.29	\$ 1,247,145.03		\$ -		\$ -	9.71	\$ 3,071,141.39	\$ 5,531,100.00
Belmont Ave	N Weber Ave to N First St	3,7	II-B, IV	4.32	2.02	47%		\$ -		\$ -	0.42	\$ 111,375.00		\$ -	2.00	\$ 632,800.00	\$ 744,200.00
Brawley Ave to Figarden Dr to W Bullard Ave	W San Jose Ave to N Marks Ave	2	II, IV	6.2	0.75	12%		\$ -		\$ -		\$ -		\$ -	6.20	\$ 1,961,680.00	\$ 1,961,700.00
Bullard Ave to Sierra Ave to Dante Ave to San Jose Ave	Veterans Blvd to N Valentine Ave	2	II	6.53	5.77	88%		\$ -	0.76	\$ 179,056.00		\$ -		\$ -		\$ -	\$ 179,100.00
Cesar Chavez Blvd	S Walnut Ave to S Chestnut Ave	3,5	II, II-B, III, IV	5.9	1.66	28%		\$ -	0.40	\$ 93,704.55	6.46	\$ 1,726,758.00	0.49	\$ 7,460.23	1.33	\$ 419,469.70	\$ 2,247,400.00
Church Ave	S Maple Ave to S Peach Ave	5	II	3.04	2.25	74%		\$ -	0.79	\$ 186,124.00		\$ -		\$ -		\$ -	\$ 186,200.00
Clinton Ave	N Cornelia Ave to N First St	1,3,7	II, IV	11.91	2	17%		\$ -	9.91	\$ 2,334,796.00		\$ -		\$ -	2.00	\$ 632,800.00	\$ 2,967,600.00
Clovis Ave	Fancher Creek Canal to Clovis City South Limit	4,5,7	I	2.97	1	34%	1.97	\$ 2,293,671.00		\$ -		\$ -		\$ -		\$ -	\$ 2,293,700.00
Copper Ave	N Willow Ave to N Friant Rd	6	I	1.98	1.76	89%	0.22	\$ 256,146.00		\$ -		\$ -		\$ -		\$ -	\$ 256,200.00
Cornelia Ave	W Gettysburg Ave to W McKinley Ave	1,3	II	4.99	3.05	61%		\$ -	1.94	\$ 457,064.00		\$ -		\$ -		\$ -	\$ 457,100.00
Dakota Ave	N Maroa Ave to E Airways Blvd	4	II	9.03	7.37	82%		\$ -	1.66	\$ 391,096.00		\$ -		\$ -		\$ -	\$ 391,100.00
Fanning Ditch	S West Ave to S Walnut Ave	3	I	1.05	0	0%	1.05	\$ 1,222,515.00		\$ -		\$ -		\$ -		\$ -	\$ 1,222,600.00
First St	E Cole Ave to S Hazelwood Blvd	4,5,6,7	II-B, IV	17.51	3	17%		\$ -	0.86	\$ 203,472.73	3.20	\$ 855,360.00		\$ -	10.20	\$ 3,227,280.00	\$ 4,286,200.00
Gettysburg Ave	N Veterans Blvd to N Cornelia Ave	1	I, II	3.81	2.46	65%	0.67	\$ 782,815.34		\$ -		\$ -		\$ -		\$ -	\$ 782,900.00
H St	E Belmont Ave to Cesar Chavez Blvd	3	II, II-B, IV	4.05	0	0%		\$ -	0.73	\$ 171,345.45	3.44	\$ 919,512.00		\$ -		\$ -	\$ 1,090,900.00
Hazelwood Blvd and Butler Ave	S First St to S Maple Ave	5	II-B	3.3	0	0%		\$ -		\$ -	3.30	\$ 882,090.00		\$ -		\$ -	\$ 882,100.00
Herndon Ave Trail & Frontage Roads	N Maroa Ave to N Polk Ave/W Spruce Ave	2	I,III	5.85	4.67	80%	1.34	\$ 1,556,810.23		\$ -		\$ -	0.75	\$ 11,362.50		\$ -	\$ 1,568,200.00
Hughes Ave to Roeding Dr/West Ave	W McKinley Ave to W Kearney Blvd	3	II	5.32	1.18	22%		\$ -	4.14	\$ 975,384.00		\$ -		\$ -		\$ -	\$ 975,400.00
Kearney Blvd	S West Ave to Fresno St	3	II	2.68	2.29	85%		\$ -	0.39	\$ 91,884.00		\$ -		\$ -		\$ -	\$ 91,900.00
Lane Ave to Peach Ave to Lowe Ave to Lane Ave	S Maple Ave to Fancher No 6 Canal (DeWitt)	5	I,II	5.19	2.4	46%	0.31	\$ 359,433.52	3.60	\$ 848,160.00		\$ -		\$ -		\$ -	\$ 1,207,600.00
Lewis S. Eaton Trail (Friant Rd)	E Copper Ave to E Audubon Ave	6	I	3.16	3.16	100%	0.00	\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Maple Ave	E Dakota Ave to E Church Ave	4,5,7	II	10.02	5.74	57%		\$ -	4.28	\$ 1,008,368.00		\$ -		\$ -		\$ -	\$ 1,008,400.00
Marks Ave	W Herndon Ave to W Barstow Ave	2	IV	3.15	0	0%		\$ -		\$ -		\$ -		\$ -	3.15	\$ 996,660.00	\$ 996,700.00
Maroa Ave/Van Ness Ave and Wishon Ave/Fulton St	E Belmont Ave to W Herndon Ave	1,2,3,7	II, IV	11.99	3.2	27%		\$ -	1.51	\$ 356,077.27		\$ -		\$ -	16.00	\$ 5,062,400.00	\$ 5,418,500.00
McKenzie Ave	N Maple Ave to N Clovis Ave	7	I,II, III	3.52	2	57%		\$ -		\$ -		\$ -	1.72	\$ 26,058.00		\$ -	\$ 26,100.00
McKinley Ave	N Cornelia Ave to N Clovis Ave	1,3,7	I, II, IV	16.43	6.37	39%	3.05	\$ 3,551,115.00	11.30	\$ 2,662,280.00		\$ -		\$ -	5.63	\$ 1,781,332.00	\$ 7,994,800.00
Merced St	E Cesar Chavez to E Kearney Blvd	3	I	0.92	0	0%	0.92	\$ 1,071,156.00		\$ -		\$ -		\$ -		\$ -	\$ 1,071,200.00
Shepherd Ave (Clovis Old Town Trail)	N Willow Ave to E Audubon Dr	6	I	2.37	0	0%	2.37	\$ 2,759,391.00		\$ -		\$ -		\$ -		\$ -	\$ 2,759,400.00

**City of Fresno**  
Active Transportation Plan



**Priority Bike Network Cost Estimate**

Project Street(s) or Canals	Project Limits	City Council District	Proposed Bike Lane Class Type(s)	Total (Miles)	Existing (Miles)	Existing Bike Lane (%)	Class-I		Class-II		Class-II Buffer		Class-III		Class-IV		Total Project Cost
							Length (Miles)	Cost	Length (Miles)	Cost	Length (Miles)	Cost	Length (Miles)	Cost	Length (Miles)	Cost	
Shields Ave	N Blackstone Ave to N First St	7	I	1	1	100%	0.00	\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Trail along Canal	W Swift Ave to E Shield Ave	1,7	I	2.77	0	0%	2.77	\$ 3,225,111.00		\$ -		\$ -		\$ -		\$ -	\$ 3,225,200.00
Trail along Canal	N First St to E McKinley Ave	4,7	I	1.33	1.33	100%	0.00	\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Trail along Canal	S Peach Ave to S Clovis Ave	5	I	3.35	1	30%	2.35	\$ 2,736,105.00		\$ -		\$ -		\$ -		\$ -	\$ 2,736,200.00
Trail along Fanning Ditch	S West Ave to S Walnut Ave	3	I	1.1	0	0%	1.10	\$ 1,280,730.00		\$ -		\$ -		\$ -		\$ -	\$ 1,280,800.00
Tulare St	Cesar Chavez Blvd to H St	3	II,IV	2.28	0.41	18%		\$ -		\$ -		\$ -		\$ -	2.28	\$ 721,392.00	\$ 721,400.00
Valentine Ave to Herndon Canal to Emerson Ave	W Barstow Ave to W Swift Ave	1,2	I,II	4.05	3.75	93%	0.27	\$ 308,715.91		\$ -		\$ -		\$ -		\$ -	\$ 308,800.00
Veterans Blvd	W Herndon Ave to W Gettysburg Ave	2	I	2.98	1.96	66%	1.02	\$ 1,187,586.00		\$ -		\$ -		\$ -		\$ -	\$ 1,187,600.00
Weber Ave and West Ave	E Belmont Ave to W Barstow Ave	1,2,3	II-B, IV	9.54	0	0%		\$ -		\$ -	8.20	\$ 2,191,860.00		\$ -	1.32	\$ 417,072.73	\$ 2,609,000.00
Willow Ave	E Barstow Ave to E Copper Ave	4,6	I	6.33	5.83	92%	0.50	\$ 582,150.00		\$ -		\$ -		\$ -		\$ -	\$ 582,200.00

**City of Fresno**  
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**Bike Facilities Improvements Cost Estimate**

Facility Type	High Priority		Medium Priority		Low Priority		Total
	Length (Miles)	Cost	Length (Miles)	Cost	Length (Miles)	Cost	
Class-I	12.11	\$ 14,101,701.70	35.42	\$ 41,239,153.18	105.72	\$ 123,085,032.95	\$ 178,425,900.00
Class-II	33.39	\$ 7,866,942.80	153.89	\$ 36,256,698.18	352.56	\$ 83,062,297.12	\$ 127,186,000.00
Class-II Buffered	9.80	\$ 2,619,033.75	1.67	\$ 447,018.75	10.46	\$ 2,796,322.50	\$ 5,862,400.00
Class-III	1.89	\$ 28,635.80	20.70	\$ 313,593.52	16.96	\$ 256,907.27	\$ 599,200.00
Class-IV	24.99	\$ 7,908,082.42	15.48	\$ 4,897,967.88	28.97	\$ 9,166,970.91	\$ 21,973,100.00
<b>Total</b>	<b>82.19</b>	<b>\$ 32,524,400.00</b>	<b>227.16</b>	<b>\$ 83,154,500.00</b>	<b>514.66</b>	<b>\$ 218,367,600.00</b>	<b>\$ 334,046,500.00</b>

**Final Cost Includes:**

- Subtotal of all potential line items for improvements.
- Traffic Control and Mobilization at 12.5% of subtotal
- Contingency at 10% of subtotal
- Design and Construction Administration at 20% of construction cost

*Note: Mileage provided for bicycle facilities represents total facility length along both sides of the roadway except class-I.*

# City of Fresno

## Active Transportation Plan

### Typical Cost Estimate Based on 1-Mile Segment



#### Class-I Bikeway Cost Estimate

Item No.	Description	Unit	Est. Unit Cost	Quantity per Mile	Cost per Mile
1	Site Clearance and Demolition	SF	\$7.00	63360	\$ 443,520.00
2	HMAC	CY	\$50.00	774	\$ 38,681.28
3	Class-II Aggregate Base	CY	\$40.00	1547	\$ 61,890.05
4	Pavement Marking	EA	\$250.00	30	\$ 7,500.00
5	4" Center Line Striping	LF	\$3.00	5280	\$ 15,840.00
6	6" Edgeline Striping	LF	\$5.00	10560	\$ 52,800.00
7	New Sign and Post	EA	\$500.00	11	\$ 5,280.00
8	Chain Link Fence	LF	\$30.00	5280	\$ 158,400.00
<b>Sub-Total</b>					<b>\$ 783,920.00</b>
<b>Traffic Control and Mobilization (12.5%)</b>					<b>\$ 98,000.00</b>
<b>Contingency (10%)</b>					<b>\$ 88,200.00</b>
<b>Total Construction Cost</b>					<b>\$ 970,200.00</b>
<b>Design and Construction Administration (20%)</b>					<b>\$ 194,100.00</b>
<b>Total Cost per Mile</b>					<b>\$ 1,164,300.00</b>

- Assumed 12-foot-wide Class-I bike path constructed on relatively level surface. Cost includes minor earthwork as needed.
- Pavement section includes: 4" Hot Mix Asphalt Concrete (HMAC) over 8" Class II Aggregate Base.
- 4" yellow centerline striping.
- 6" white edge lines on both sides.
- One bike lane pavement marking (bike symbol) every 500 feet per direction.
- One sign and one post every 1000 feet per direction.
- Applicable to one side only – especially for trails along canals.

#### Cost Breakdown Includes:

- Subtotal of all potential items for improvements.
- Traffic Control and Mobilization at 12.5% of subtotal
- Contingency at 10% of subtotal
- Design and Construction Administration at 20% of construction cost

# City of Fresno

## Active Transportation Plan

### Typical Cost Estimate Based on 1-Mile Segment



#### Class-II Bike Lane Cost Estimate

Item No.	Description	Unit	Est. Unit Cost	Quantity per Mile	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	32860	\$ 131,440.00
2	6" White Stripe (Bike Lane Line)	LF	\$5.00	21120	\$ 105,600.00
3	6" White Stripe (Travel Lane Line)	LF	\$4.00	10560	\$ 42,240.00
4	Green Pavement Marking	SF	\$12.00	530	\$ 6,360.00
5	Bike Pavement Marking	EA	\$250.00	40	\$ 10,000.00
6	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	20	\$ 6,000.00
7	New Sign and Post	EA	\$500.00	21	\$ 10,560.00
8	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	2	\$ 5,000.00
<b>Sub-Total</b>					<b>\$ 317,200.00</b>
<b>Traffic Control and Mobilization (12.5%)</b>					<b>\$ 39,700.00</b>
<b>Contingency (10%)</b>					<b>\$ 35,700.00</b>
<b>Total Construction Cost</b>					<b>\$ 392,600.00</b>
<b>Design and Construction Administration (20%)</b>					<b>\$ 78,600.00</b>
<b>Total Cost per Mile (both direction of travel)</b>					<b>\$ 471,200.00</b>
<b>Total Cost per Mile (one direction of travel)</b>					<b>\$ 235,600.00</b>

#### Quantity Assumptions:

- Roadway Cross-Section: Assumed a total roadway width of 80 feet curb-to-curb, including a 14-foot median. The remaining 56 feet of traveled way is divided into four 11-foot and 10-foot travel lanes (two in each direction), and 7-foot Class II bike lanes in each direction.
- Striping Details: Each direction includes one Detail 9 (6" stripe) and one Detail 39 (buffer striping with 12" diagonal).
- Green Pavement Marking: Assumed 0.10 square feet per linear foot for both directions, representing intermittent conflict zone treatments (e.g., intersections).
- Bike Lane Pavement Marking: One marking assumed every 300 feet per direction.
- Arrow/Sharrows Markings: Assumed 10 arrows per mile, based on 2 signalized intersections per mile with 5 arrows each.
- Signage: Assumed one sign and post every 500 feet per direction (2 per 1,000 feet total), including sign panel and mounting hardware.
- Signalized Intersections: Assumed 2 signalized intersections per mile.
- Detection System Reconfiguration: At each signalized intersection, assumed reconfiguration of video/loop detection due to bike lane impacts.

#### Cost Breakdown Includes:

- Subtotal of all potential items for improvements.
- Traffic Control and Mobilization at 12.5% of subtotal
- Contingency at 10% of subtotal
- Design and Construction Administration at 20% of construction cost

# City of Fresno

## Active Transportation Plan

### Typical Cost Estimate Based on 1-Mile Segment



#### Class-II Buffered Bike Lane Cost Estimate

Item No.	Description	Unit	Est. Unit Cost	Quantity per Mile	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	37550	\$ 150,200.00
2	6" White Stripe (Bike Lane Line)	LF	\$5.00	21120	\$ 105,600.00
3	6" White Stripe (Travel Lane Line)	LF	\$4.00	10560	\$ 42,240.00
4	12" White Stripe (Buffer Line - Detail 39)	LF	\$8.00	2200	\$ 17,600.00
5	Green Pavement Marking	SF	\$12.00	1060	\$ 12,720.00
6	Bike Pavement Marking	EA	\$250.00	40	\$ 10,000.00
7	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	20	\$ 6,000.00
8	New Sign and Post	EA	\$500.00	21	\$ 10,500.00
9	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	2	\$ 5,000.00
<b>Sub-Total</b>					<b>\$ 359,920.00</b>
<b>Traffic Control and Mobilization (12.5%)</b>					<b>\$ 45,000.00</b>
<b>Contingency (10%)</b>					<b>\$ 40,500.00</b>
<b>Total Construction Cost</b>					<b>\$ 445,500.00</b>
<b>Design and Construction Administration (20%)</b>					<b>\$ 89,100.00</b>
<b>Total Cost per Mile (both direction of travel)</b>					<b>\$ 534,600.00</b>
<b>Total Cost per Mile (one direction of travel)</b>					<b>\$ 267,300.00</b>

#### Quantity Assumptions:

- Roadway Cross-Section: Assumed a total roadway width of 80 feet curb-to-curb, including a 16-foot median. The remaining 64 feet of traveled way is divided into four 11-foot travel lanes (two in each direction), 3-foot buffers, and 7-foot Class II bike lanes in each direction.
- Striping Details: Each direction includes one Detail 9 (6" stripe) and two Detail 39 (buffer striping with 12" diagonal).
- Buffer Striping: Assumed 5 feet long diagonal buffer bars spaced every 24 feet on both sides.
- Green Pavement Marking: Assumed 0.20 square feet per linear foot for both directions, representing intermittent conflict zone treatments (e.g., intersections, driveways).
- Bike Lane Pavement Marking: One marking assumed every 300 feet per direction.
- Arrow/Sharrow Markings: Assumed 10 arrows per mile, based on 2 signalized intersections per mile with 5 arrows each.
- Signage: Assumed one sign and post every 500 feet per direction (2 per 1,000 feet total), including sign panel and mounting hardware.
- Signalized Intersections: Assumed 2 signalized intersections per mile.
- Detection System Reconfiguration: At each signalized intersection, assumed reconfiguration of video/loop detection due to bike lane impacts.

#### Cost Breakdown Includes:

- Subtotal of all potential items for improvements.
- Traffic Control and Mobilization at 12.5% of subtotal
- Contingency at 10% of subtotal

# City of Fresno

## Active Transportation Plan

### Typical Cost Estimate Based on 1-Mile Segment



#### Class-III Bike Lane Cost Estimate

Item No.	Description	Unit	Est. Unit Cost	Quantity per Mile	Cost per Mile
1	Pavement Marking	EA	\$250.00	60	\$ 15,000.00
2	New Sign and Post	EA	\$500.00	11	\$ 5,280.00
Sub-Total					\$ 20,280.00
Traffic Control and Mobilization (12.5%)					\$ 2,600.00
Contingency (10%)					\$ 2,300.00
Total Construction Cost					\$ 25,200.00
Design and Construction Administration (20%)					\$ 5,100.00
Total Cost per Mile (both direction of travel)					\$ 30,300.00
Total Cost per Mile (one direction of travel)					\$ 15,150.00

#### Quantity Assumptions:

- One sharrow marking every 200 feet per direction.
- One sign and one post every 1000 feet per direction.

#### Cost Breakdown Includes:

- Subtotal of all potential items for improvements.
- Traffic Control and Mobilization at 12.5% of subtotal
- Contingency at 10% of subtotal
- Design and Construction Administration at 20% of construction cost



# City of Fresno

## Active Transportation Plan



### Typical Cost Estimate Based on 1-Mile Segment

#### Class-IV Bike Lane Cost Estimate

Item No.	Description	Unit	Est. Unit Cost	Quantity per Mile	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	37550	\$ 150,200.00
2	6" White Stripe (Bike Lane Line)	LF	\$5.00	21120	\$ 105,600.00
3	6" White Stripe (Travel Lane Line)	LF	\$4.00	10560	\$ 42,240.00
4	12" White Stripe (Buffer Line - Detail 39)	LF	\$8.00	2200	\$ 17,600.00
5	Green Pavement Marking	SF	\$12.00	1060	\$ 12,720.00
6	Bike Pavement Marking	EA	\$250.00	40	\$ 10,000.00
7	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	20	\$ 6,000.00
8	New Sign and Post	EA	\$500.00	21	\$ 10,560.00
9	Flexible Delineator Post with Long Base	EA	\$150.00	440	\$ 66,000.00
10	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	2	\$ 5,000.00
<b>Sub-Total</b>					<b>\$ 425,920.00</b>
<b>Traffic Control and Mobilization (12.5%)</b>					<b>\$ 53,300.00</b>
<b>Contingency (10%)</b>					<b>\$ 48,000.00</b>
<b>Total Construction Cost</b>					<b>\$ 527,300.00</b>
<b>Design and Construction Administration (20%)</b>					<b>\$ 105,500.00</b>
<b>Total Cost per Mile (both direction of travel)</b>					<b>\$ 632,800.00</b>
<b>Total Cost per Mile (one direction of travel)</b>					<b>\$ 316,400.00</b>

#### Quantity Assumptions:

- Roadway Cross-Section: Assumed a total roadway width of 80 feet curb-to-curb, including a 16-foot median. The remaining 64 feet of traveled way is divided into four 11-foot travel lanes (two in each direction), 3-foot buffers, and 7-foot Class II bike lanes in each direction.
- Striping Details: Each direction includes one Detail 9 (6" stripe) and two Detail 39 (buffer striping with 12" diagonal).
- Buffer Striping: Assumed 5 feet long diagonal buffer bars spaced every 24 feet on both sides.
- Green Pavement Marking: Assumed 0.20 square feet per linear foot for both directions, representing intermittent conflict zone treatments (e.g., intersections, driveways).
- Bike Lane Pavement Marking: One marking assumed every 300 feet per direction.
- Arrow/Sharrows Markings: Assumed 10 arrows per mile, based on 2 signalized intersections per mile with 5 arrows each.
- Signage: Assumed one sign and post every 500 feet per direction (2 per 1,000 feet total), including sign panel and mounting hardware.
- Flexible Delineator Post: Assumed one flexible delineator post every 24 feet for both sides.
- Signalized Intersections: Assumed 2 signalized intersections per mile.
- Detection System Reconfiguration: At each signalized intersection, assumed reconfiguration of video/loop detection due to bike lane impacts.

#### Cost Breakdown Includes:

- Subtotal of all potential items for improvements.
- Traffic Control and Mobilization at 12.5% of subtotal