

### Cost Comparison

See respective tabs for assumptions and details

Category	Cost
Low-Cost Alternative	\$ 427,221
Mid-Cost Alternative	\$ 509,984
High-Cost Alternative	\$ 1,215,084
Sidewalk into roadway (6') (corridor)	\$ 3,122,103
Sidewalk into roadway (6'), per parcel	\$ 111,504
Sidewalk into parcel (6'), per parcel	\$ 71,354
Sidewalk into parcel (10'), per parcel	\$ 110,910

*This opinion of probable construction cost was developed by identifying pay items and establishing quantities based on the current draft concept documents. Additional pay items have been assigned approximate lump sum prices based on a percentage of the anticipated construction cost. Preliminary cost opinions include a contingency to cover items that are undefined or are typically unknown prior to final design. Unit costs are based on 2020 dollars and were assigned based on historical cost data from sources listed by each item in the Bid Items tab. This cost opinion does not include easement and right-of-way acquisition; permitting, inspection, or construction management; escalation; or the cost for ongoing maintenance. This cost opinion is provided for the Client's information, and is based on the design professional's recent experience, adjusted for factors known at the time of preparation. Toole Design Group, LLC has no control over the cost of labor and material, competitive bidding, or market conditions; and makes no warranties, expressed or implied, concerning the accuracy of the opinion as compared to actual bids or cost to the Client.*

**Low-Cost Alternative**

Separated bike lane with striping and delineator posts, bus/bike mixing zone at bus stops, intersection treatments

Description	Item	Unit	Quantity	Unit Cost	Total Cost
<b>Separated Bike Lane (6' lane, 3' buffer, 6,100 LF total)</b>					
Install 2, 6" solid white stripes for the 3' buffer along the 6,100' corridor	6" THERMOPLASTIC SOLID WHITE STRIPING	LF	12,200	\$ 4	\$ 48,800
Install 45-degree, 6" solid white striping at 15' spacing in the 3' buffer (approx. 5' each) along the 6,100' corridor	6" THERMOPLASTIC SOLID WHITE STRIPING	LF	2,040	\$ 4	\$ 8,160
Install flexible delineator posts at 15' spacing in the 3' buffer along the 6,100' corridor	FLEXIBLE DELINEATOR POST	EA	410	\$ 35	\$ 14,350
Install 24 LF, 6" white skip striping at driveways (44)	6" THERMOPLASTIC WHITE SKIP STRIPING	LF	1,056	\$ 2	\$ 2,112
Install 6" white skip striping at corridor intersections (5, 900 LF total)	6" THERMOPLASTIC WHITE SKIP STRIPING	LF	900	\$ 2	\$ 1,800
Install 4' x 6' skip stripe green MMA with 8' gaps at all driveways (44)	METHYL METHACRYLATE (GREEN MMA)	SF	2,120	\$ 20	\$ 42,400
Install 4' x 4' green MMA with 8' gaps at corridor intersection vehicle right turn-bike mixing zones (2, 100' each and 2, 50' each)	METHYL METHACRYLATE (GREEN MMA)	SF	400	\$ 20	\$ 8,000
Install 6', 20 LF solid green MMA before and after intersections except in vehicle right turn-bike mixing zones (9 total)	METHYL METHACRYLATE (GREEN MMA)	SF	1,080	\$ 20	\$ 21,600
Install bike symbol marking before and after corridor driveways (44), bus stops (3), and intersections (5, 14 total markings)	BIKE SYMBOL MARKING	EA	108	\$ 200	\$ 21,600
Remove existing right turn arrow markings (15 SF each) at Shaw Ave & N Blackstone Ave (4), E Fairmont Ave & N Blackstone Ave (1), and E Santa Ana Ave & N Blackstone Ave (1)	REMOVE PAVEMENT MARKING	SF	90	\$ 4	\$ 360
Install right-thru turn arrow markings at Shaw Ave & N Blackstone Ave (4) and Barstow Ave & N Blackstone Ave (2)	RIGHT-THRU TURN ARROW MARKING	EA	6	\$ 300	\$ 1,800
Retrofit existing signal with bike signal head at Shaw Ave & N Blackstone Ave	BIKE SIGNAL HEAD	EA	2	\$ 25,000	\$ 50,000
<b>Bus Stop Treatments (3 bus stops)</b>					
Install 6" white skip striping at bus stop mixing zones (3 total, 100' each)	6" THERMOPLASTIC WHITE SKIP STRIPING	LF	300	\$ 2	\$ 600
Install 4' x 6' green MMA with 8' gaps at bus stop mixing zones (3 total, 100' zones)	METHYL METHACRYLATE (GREEN MMA)	SF	600	\$ 20	\$ 12,000
<b>Other</b>					
Drainage (8% total cost)	DRAINAGE (8%)	LS	1	\$ 18,687	\$ 18,687
Mobilization (10% total cost)	MOBILIZATION (10%)	LS	1	\$ 23,358	\$ 23,358

<b>Subtotal</b>	<b>\$ 275,627</b>
<b>Soft costs (25%)</b>	<b>\$ 68,907</b>
<b>Contingency (30%)</b>	<b>\$ 82,688</b>
<b>Grand Total</b>	<b>\$ 427,221</b>

**Mid-Cost Alternative**

Separated bike lane with striping and delineator posts, bike ramp up to sidewalk behind bus stops, intersection treatments

Description	Item	Unit	Quantity	Unit Cost	Total Cost
<b>Separated Bike Lane (6' lane, 3' buffer, 6,100 LF total)</b>					
Install 2, 6" solid white stripes for the 3' buffer along the 6,100' corridor	6" THERMOPLASTIC SOLID WHITE STRIPING	LF	12,200	\$ 4	\$ 48,800
Install 45-degree, 6" solid white striping at 15' spacing in the 3' buffer (approx. 5' each) along the 6,100' corridor	6" THERMOPLASTIC SOLID WHITE STRIPING	LF	2,040	\$ 4	\$ 8,160
Install flexible delineator posts at 15' spacing in the 3' buffer along the 6,100' corridor	FLEXIBLE DELINEATOR POST	EA	410	\$ 35	\$ 14,350
Install 24', 6" white skip striping at driveways (44)	6" THERMOPLASTIC WHITE SKIP STRIPING	LF	1,056	\$ 2	\$ 2,112
Install 6" white skip striping at corridor intersections (5, 900 LF total)	6" THERMOPLASTIC WHITE SKIP STRIPING	LF	900	\$ 2	\$ 1,800
Install 4' x 6' skip stripe green MMA with 8' gaps at all driveways (44)	METHYL METHACRYLATE (GREEN MMA)	SF	2,120	\$ 20	\$ 42,400
Install 4' x 4' green MMA with 8' gaps at corridor intersection vehicle right turn-bike mixing zones (2, 100' each and 2, 50' each)	METHYL METHACRYLATE (GREEN MMA)	SF	400	\$ 20	\$ 8,000
Install 6', 20 LF solid green MMA before and after intersections except in vehicle right turn-bike mixing zones (9 total)	METHYL METHACRYLATE (GREEN MMA)	SF	1,080	\$ 20	\$ 21,600
Install bike symbol marking before and after corridor driveways (44), bus stops (3), and intersections (5, 14 total markings)	BIKE SYMBOL MARKING	EA	108	\$ 200	\$ 21,600
Remove existing right turn arrow markings (15 SF each) at Shaw Ave & N Blackstone Ave (4), E Fairmont Ave & N Blackstone Ave (1), and E Santa Ana Ave & N Blackstone Ave (1)	REMOVE PAVEMENT MARKING	SF	90	\$ 4	\$ 360
Install right-thru turn arrow markings at Shaw Ave & N Blackstone Ave (4) and Barstow Ave & N Blackstone Ave (2)	RIGHT-THRU TURN ARROW MARKING	EA	6	\$ 300	\$ 1,800
Retrofit existing signal with bike signal head at Shaw Ave & N Blackstone Ave	BIKE SIGNAL HEAD	EA	2	\$ 25,000	\$ 50,000
<b>Bus Stop Treatments (3 bus stops)</b>					
Clear and grub 10' into parcel (60 LF) (2 bus stops)	CLEARING AND GRUBBING	SF	1,200	\$ 5	\$ 6,000
Remove hardscape and/or utilites 10' into parcel (60 LF parcel frontage) (1 bus stop)	REMOVE PAVEMENT	SY	70	\$ 70	\$ 4,900
Install 6" deep, 8' sidewalk subbase behind bus shelter (60 LF)	IMPORT/BORROW	CY	30	\$ 25	\$ 750
Install concrete sidewalk behind bus shelter (8' wide, 60 LF)	MINOR CONCRETE	CY	27	\$ 600	\$ 16,200
Install asphalt ramps to sidewalk level for bike lane (2 per bus stop)	ASPHALT RAMP	EA	6	\$ 500	\$ 3,000
Install warning signs (4) at bus stops	INSTALL SIGN AND POST	EA	12	\$ 450	\$ 5,400
Install 6', 60 LF solid green MMA on sidewalk behind bus shelter	METHYL METHACRYLATE (GREEN MMA)	SF	1,080	\$ 20	\$ 21,600
<b>Other</b>					
Drainage (8% total cost)	DRAINAGE (8%)	LS	1	\$ 22,307	\$ 22,307
Mobilization (10% total cost)	MOBILIZATION (10%)	LS	1	\$ 27,883	\$ 27,883

<b>Subtotal</b>	<b>\$ 329,022</b>
<b>Soft costs (25%)</b>	<b>\$ 82,255</b>
<b>Contingency (30%)</b>	<b>\$ 98,707</b>
<b>Grand Total</b>	<b>\$ 509,984</b>

### High-Cost Alternative

Separated bike lane with concrete median buffer, separate ped and bike facilities at sidewalk level at bus stops, intersection treatments

Description	Item	Unit	Quantity	Unit Cost	Total Cost
<b>Separated Bike Lane (6' lane, 3' buffer, 6,100 LF total)</b>					
Remove pavement to install 3' concrete median buffer along the 6,100' corridor	REMOVE PAVEMENT	SY	2,040	\$ 70	\$ 142,800
Install 3' concrete median buffer (with gaps for drainage flow) along the 6,100' corridor	MINOR CONCRETE	CY	340	\$ 600	\$ 204,000
Install 24', 6" white skip striping at driveways (44)	6" THERMOPLASTIC WHITE SKIP STRIPING	LF	1,056	\$ 2	\$ 2,112
Install 6" white skip striping at corridor intersections (5, 900 LF total)	6" THERMOPLASTIC WHITE SKIP STRIPING	LF	900	\$ 2	\$ 1,800
Install 4' x 6' skip stripe green MMA with 8' gaps at all driveways (44)	METHYL METHACRYLATE (GREEN MMA)	SF	2,120	\$ 20	\$ 42,400
Install 6', 20 LF solid green MMA before and after intersections (12 total)	METHYL METHACRYLATE (GREEN MMA)	SF	1,440	\$ 20	\$ 28,800
Install bike symbol marking before and after corridor driveways (44), bus stops (3), and intersections (5, 14 total markings)	BIKE SYMBOL MARKING	EA	108	\$ 200	\$ 21,600
Retrofit existing signal with bike signal head at Shaw Ave & N Blackstone Ave	BIKE SIGNAL HEAD	EA	2	\$ 25,000	\$ 50,000
<b>Bus Stop Treatments (3 bus stops)</b>					
Clear and grub 14' into parcel (60 LF) (2 bus stops)	CLEARING AND GRUBBING	SF	1,680	\$ 5	\$ 8,400
Remove hardscape and/or utilites 14' into parcel (60 LF parcel frontage) (1 bus stop)	REMOVE PAVEMENT	SY	100	\$ 70	\$ 7,000
Install 6" deep, 12' subbase behind bus shelter (60 LF)	IMPORT/BORROW	CY	60	\$ 25	\$ 1,500
Install asphalt bike trail behind the bus shelter (6' wide, 60 LF)	TRAIL HOT MIX ASPHALT (TYPE A)	TON	45	\$ 120	\$ 5,400
Install concrete sidewalk behind asphalt bike trail (6' wide, 60 LF)	MINOR CONCRETE	CY	20	\$ 600	\$ 12,000
Install asphalt ramps to sidewalk level for bike lane (2 per bus stop)	ASPHALT RAMP	EA	6	\$ 500	\$ 3,000
Install warning signs (2) at bus stops	INSTALL SIGN AND POST	EA	6	\$ 450	\$ 2,700
Install linear tactile warning strips (2' width) on sidewalk behind asphalt bike trail at bus stops (3, 60 LF strips)	DETECTABLE WARNING STRIP	SF	360	\$ 50	\$ 18,000
Install bike yield markings at pedestrian crossings to bus stop (2 per bus stop)	BIKE YIELD MARKINGS	EA	6	\$ 200	\$ 1,200
Install pedestrian crossings on the asphalt bike trail (3, 5' x 2' markings each crossing)	2' PEDESTRIAN CROSSING BARS	SF	180	\$ 5	\$ 900
Install detectable warning surfaces after crossing on bus island (2, 2' x 5' surfaces per bus stop)	DETECTABLE WARNING STRIP	SF	60	\$ 50	\$ 3,000
<b>Other</b>					
Drainage (8% total cost)	DRAINAGE (8%)	LS	1	\$ 44,529	\$ 44,529
Mobilization (10% total cost)	MOBILIZATION (10%)	LS	1	\$ 55,661	\$ 55,661

<b>Subtotal</b>	\$ 656,802
<b>Soft costs (25%)</b>	\$ 164,201
<b>Contingency (60%)</b>	\$ 394,081
<b>Grand Total</b>	<b>\$ 1,215,084</b>

\*Note that the contingency on this option is stated at 60%. This is significantly higher than a standard contingency to approximate incorporating the cost of moving FAX stop infrastructure (shelter, pay station, totem, utility boxes) to the new location of a bus boarding island.

**Sidewalk into roadway costs**

Extend sidewalk width 6' into roadway along corridor

Description	Item	Unit	Quantity	Unit Cost	Total Cost
Remove curb and gutter along corridor (7,000 LF)	REMOVE CONCRETE CURB AND GUTTER	LF	7,000	\$ 40	\$ 280,000
Remove curb ramps (22)	REMOVE CURB RAMP	EA	22	\$ 500	\$ 11,000
Remove asphalt 8' into roadway (7,000 LF)	REMOVE PAVEMENT	SY	6230	\$ 70	\$ 436,100
Install 6" deep, 6' sidewalk subbase (7,000 LF)	IMPORT/BORROW	CY	780	\$ 25	\$ 19,500
Install 6' concrete sidewalk (6' wide, 7,000 LF)	CITY OF FRESNO SIDEWALK	SF	42,000	\$ 10	\$ 420,000
Install curb ramps (22, 0.5 CY each)	MINOR CONCRETE	CY	11	\$ 600	\$ 6,600
Install curb and gutter (7,000 LF)	CITY OF FRESNO 6" CURB AND GUTTER	LF	7,000	\$ 45	\$ 315,000
Install detectable warning strip (22, 2' x 4' each)	DETECTABLE WARNING STRIP	SF	176	\$ 50	\$ 8,800
Place street trees in planters (140)	TREE IN PLANTER	EA	140	\$ 1,500	\$ 210,000
Update drainage system (8% total cost)	DRAINAGE (8%)	LS	1	\$ 136,560	\$ 136,560
Mobilization (10% total cost)	MOBILIZATION (10%)	LS	1	\$ 170,700	\$ 170,700

<b>Subtotal</b>	<b>\$ 2,014,260</b>
<b>Soft costs (25%)</b>	<b>\$ 503,565</b>
<b>Contingency (30%)</b>	<b>\$ 604,278</b>
<b>Grand Total</b>	<b>\$ 3,122,103</b>
<b>Per parcel cost</b>	<b>\$ 111,504</b>

\*Note that estimate for number of street trees is based on City specified minimum spacing of 30' on center, plus accounting for clearances from driveways, intersections, utilities, etc. Number is calculated using 50' spacing as a proxy to account for those clearances.

### Sidewalk into parcel cost

Extend sidewalk width 6' into parcel, per parcel cost, assuming a 250 LF average parcel frontage

Description	Item	Unit	Quantity	Unit Cost	Total Cost
Clear and grub 8' into parcel (250 LF parcel frontage)	CLEARING AND GRUBBING	SF	2,000	\$ 5	\$ 10,000
Remove hardscape and/or utilites 8' into parcel (250 LF parcel frontage)	REMOVE PAVEMENT	SY	230	\$ 70	\$ 16,100
Install 6" deep, 6' sidewalk subbase (250 LF)	IMPORT/BORROW	CY	30	\$ 25	\$ 750
Install 6' concrete sidewalk (6' wide, 250 LF)	CITY OF FRESNO SIDEWALK	SF	1,500	\$ 10	\$ 15,000
Mobilization (10% total cost)	MOBILIZATION (10%)	LS	1	\$ 4,185	\$ 4,185

<b>Subtotal</b>	\$ 46,035
<b>Soft costs (25%)</b>	\$ 11,509
<b>Contingency (30%)</b>	\$ 13,811
<b>Grand Total (per parcel)</b>	<b>\$ 71,354</b>

**Sidewalk into parcel cost**

Extend sidewalk width 10' into parcel, per parcel cost, assuming a 250 LF average parcel frontage

Description	Item	Unit	Quantity	Unit Cost	Total Cost
Clear and grub 12' into parcel (250 LF parcel frontage)	CLEARING AND GRUBBING	SF	3,000	\$ 5	\$ 15,000
Remove hardscape and/or utilites 12' into parcel (250 LF parcel frontage)	REMOVE PAVEMENT	SY	340	\$ 70	\$ 23,800
Install 6" deep, 10' sidewalk subbase (250 LF)	IMPORT/BORROW	CY	50	\$ 25	\$ 1,250
Install 6' concrete sidewalk (10' wide, 250 LF)	CITY OF FRESNO SIDEWALK	SF	2,500	\$ 10	\$ 25,000
Mobilization (10% total cost)	MOBILIZATION (10%)	LS	1	\$ 6,505	\$ 6,505

<b>Subtotal</b>	\$ 71,555
<b>Soft costs (25%)</b>	\$ 17,889
<b>Contingency (30%)</b>	\$ 21,467
<b>Grand Total (per parcel)</b>	<b>\$ 110,910</b>

<b>Item Description</b>	<b>Unit</b>	<b>Unit Price</b>
CLEARING AND GRUBBING	SF	\$ 5
ROADWAY EXCAVATION	CY	\$ 50
REMOVE CONCRETE CURB	LF	\$ 20
REMOVE CONCRETE CURB AND GUTTER	LF	\$ 40
REMOVE PAVEMENT	SY	\$ 70
REMOVE CURB RAMP	EA	\$ 500
REMOVE PAVEMENT MARKING	SF	\$ 4
CITY OF FRESNO 6" CURB AND GUTTER	LF	\$ 45
CITY OF FRESNO SIDEWALK	SF	\$ 10
TRAIL HOT MIX ASPHALT (TYPE A)	TON	\$ 120
ROADWAY HOT MIX ASPHALT (TYPE A)	TON	\$ 120
SLURRY SEAL (TYPE II)	ELT	\$ 1,500
IMPORT/BORROW	CY	\$ 25
MULTI-PURPOSE TRAIL CONCRETE CURB	LF	\$ 20
MINOR CONCRETE	CY	\$ 600
ASPHALT RAMP	EA	\$ 500
DETECTABLE WARNING STRIP	SF	\$ 50
FLEXIBLE DELINEATOR POST	EA	\$ 35
6" THERMOPLASTIC SOLID WHITE STRIPING	LF	\$ 4
6" THERMOPLASTIC WHITE SKIP STRIPING	LF	\$ 2
2' PEDESTRIAN CROSSING BARS	SF	\$ 5
METHYL METHACRYLATE (GREEN MMA)	SF	\$ 20
YIELD PAVEMENT MARKINGS	EA	\$ 20
BIKE SYMBOL MARKING	EA	\$ 200
BIKE YIELD MARKINGS	EA	\$ 200
RIGHT TURN ARROW MARKING	EA	\$ 200
RIGHT-THRU TURN ARROW MARKING	EA	\$ 300
INSTALL SIGN	EA	\$ 200
INSTALL SIGN AND POST	EA	\$ 450
BIKE SIGNAL HEAD	EA	\$ 25,000
VEHICLE RIGHT TURN SIGNAL HEAD	EA	\$ 25,000
TREE IN PLANTER	EA	\$ 1,500
DRAINAGE (8%)	LS	N/A
MOBILIZATION (10%)	LS	N/A