

*Appendix E:*  
**DETAILED  
COST ESTIMATES**



*E*





## Technical Memorandum

**To:** The City of Longmont  
**From:** Heidi Otten, EIT and Troy Russ, AICP  
**Subject:** Longmont City Street Public Infrastructure Improvements  
**Date:** December 11, 2017

The conceptual cost opinions for redevelopment of the public infrastructure along ten (10) streets in the City of Longmont were developed using general assumptions and considering several categories of improvements. The ten (10) streets being considered for improvements are: 1<sup>st</sup> Avenue, 3<sup>rd</sup> Avenue, 21<sup>st</sup> Avenue, Dry Creek Drive, Emery Street, Fordham Street, Gay Street, Mountain View Avenue, Price Road, and Sunset Street. Improvements on each street are split into one or several sections that differ in recommended improvements, based on the existing street layout.

Cross-sections for each section of each street were developed by Fehr & Peers Transportation Consultants. These cross-sections were used to create the attached figures, depicting plan views of a representative block within each section of each street. Both the cross-section and plan view figures were used to determine areas and units for the cost opinion. A conceptual cost opinion was developed for each street, with each cost opinion separated into their respective sections and all section costs summarized by street.

The categories of improvements considered in these cost opinions are: demolition; signage and pavement markings; concrete hardscape; and landscape. The following general assumption were used to develop all cost opinions:

- a. Demolition
  - a. No asphalt will be removed or replaced.
  - b. Street markings will be removed and replaced.
  - c. Storm sewer infrastructure will not be removed or replaced.
  - d. Where possible, the existing curb and gutter will be maintained. Curb and gutter assumed to remain is called as existing landscape buffer or sidewalk on the plan view figures. Curb and gutter will be removed and replaced in the following situations:
    - i. Bulb out intersections are recommended.
    - ii. Street width is recommended to be expanded.
    - iii. Street width is recommended to be shortened.
- b. Signage and Pavement Markings
  - a. Where applicable and shown on the plan view figures, two (2) directional arrows or sharrows will be painted per block. The area of paint was determined by standard marking measurements.
  - b. Where applicable and shown on the plan view figures, two (2) bike symbols will be painted per block. The area of paint was determined by standard marking measurements.



- c. Striping includes solids lines, bike lane buffer lines, parking lane buffer lines, crosswalk lines, and stop bars.
- d. Crosswalks and stop bars are only placed in existing locations and when connecting eight (8) foot or greater sidepaths, as shown on the plan view figures.
- e. All paint values assume 1 gallon of paint is used per 100 feet of striping.
- f. Two roadway signs will be placed per block.
- g. Signal intersections will not be removed or replaced.
- c. Concrete Hardscape
  - a. Sidewalks to be replaced, as indicated in the plan view figures, will be replaced with four (4) inch concrete.
  - b. Where five (5) foot sidewalks are recommended, but a four and a half (4.5) foot sidewalk exists, the four and a half (4.5) foot sidewalk was assumed to remain. Therefore, in these cases, new sidewalk was not included in the cost opinion. It is assumed that as maintenance occurs in these sections, these sidewalks will be converted to five (5) foot sidewalks over time. On all plan view figures in which this applies a note is included.
  - c. Where eight (8) foot sidepaths are recommended, but a seven and a half (7.5) foot sidewalk exists, the seven and a half (7.5) foot sidewalk was assumed to remain. Therefore, in these cases, new sidewalk was not included in the cost opinion. It is assumed that as maintenance occurs in these sections, these sidewalks will be converted to eight (8) foot sidepaths over time. On all plan view figures in which this applies a note is included.
  - d. Curb ramps will be replaced in places at all corners where the sidewalk is being replaced. One curb ramp per new sidewalk corner is assumed. If directional curb ramps are chosen, the opinioned cost for curb ramps will double.
- d. Landscape
  - a. Pedestrian and street lighting will not be replaced.
  - b. Where a landscape buffer is recommended adjacent to an eight (8) foot or wider sidepath, trees will be placed 30 feet on center.
  - c. Landscape buffer costs include sod and irrigation.
- e. General
  - a. The number of blocks in each section and the average length of a block were measured on an aerial map. Total values for each category were calculated as:  
  
 $(\text{No. Blocks}) * (\text{Length of Block}) * (\text{Cross-Section Width}) = \text{Total Area}$   
 $(\text{No. Blocks}) * (\text{Length of Block}) * (\text{Cross-Section Width}) * (\text{Depth of Feature}) = \text{Total Volume}$   
 $(\text{No. Blocks}) * (\text{Items per Block}) = \text{Items per Block}$
  - b. All cost values were rounded up to produce a conservative cost opinion.

- c. All costs are based on a “typical” street section. Therefore, additional costs for wider intersections, additional striping in intersections, or additional medians in intersections were not considered.

At this conceptual level of design, it is not feasible to consider all possible categories of improvements and the exact costs. It is assumed that the 20% contingency will cover categories of improvements not listed and the difference between the opinioned unit cost and actual cost at the time of construction.

In all possible cases, values for unit costs were obtained from the Colorado Department of Transportation (CDOT) 2017 Cost Data Book. In cases where multiple values were listed for the same improvement, the most conservative average was used. Categories in which CDOT values were not available, unit costs were estimated from Kimley-Horn professional experience in Colorado. This includes knowledge of past projects and research on applicable available products in the Front Range.





**City of Longmont 3rd Avenue Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section A Collyer Street to Martin Street

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY						
Item	Description	Quantity	Units	Price	Cost	
<b>Demo</b>						
1	Marking removal	0.3	miles	\$20,000	\$6,000	
2	Curb/Gutter removal	1,350	LF	\$6	\$9,000	
<b>Pavement Markings</b>						
3	Arrows	76	SF	\$12	\$1,000	
4	Striping	64	gal	\$35	\$3,000	
<b>Concrete Hardscape</b>						
5	New Curb and Gutter	1,350	LF	\$30	\$41,000	
6	4 in Sidewalk	2,400	SY	\$60	\$144,000	
7	Curb Ramp	16	No.	\$1,500	\$24,000	
<b>Sinage</b>						
8	Signs	4	No.	\$500	\$2,000	
<b>Landscaping</b>						
9	Sod and Irrigation	21,600	SF	\$3	\$65,000	
10	Trees (30' O.C.)	90	each	\$700	\$63,000	
<b>SUB-TOTAL</b>					\$	<b>358,000</b>
<b>CONTINGENCY (20%)</b>					\$	<b>72,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					\$	<b>29,000</b>
<b>MOBILIZATION (5%)</b>					\$	<b>18,000</b>
<b>TOTAL</b>					\$	<b>500,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.

**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.

3rd Avenue Improvements Cost Opinion Summary		
Option	Description	Total Cost Per Section
Section A	Collyer Street to Martin Street	\$500,000
Total Cost of Project:		\$500,000





**City of Longmont 21st Avenue Conceptual Public Infrastructure Opinion of Probable Cost**

Section A Hover Street to Hackberry Circle

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.4	miles	\$20,000	\$8,000
<b>Pavement Markings</b>					
2	Arrows	38	SF	\$12	\$500
3	Bike symbol	936	SF	\$12	\$12,000
4	Striping	124	gal	\$35	\$5,000
<b>Concrete Hardscape</b>					
5	4 in Sidewalk	3,960	SY	\$60	\$237,600
6	Curb Ramp	26	No.	\$1,500	\$39,000
<b>Sinage</b>					
7	Signs	4	No.	\$500	\$2,000
<b>Landscaping</b>					
8	Sod and Irrigation	15,840	SF	\$3	\$48,000
9	Trees (30' O.C.)	66	each	\$700	\$46,200
<b>SUB-TOTAL</b>					<b>\$ 400,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 80,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 32,000</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 20,000</b>
<b>TOTAL</b>					<b>\$ 600,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.

**City of Longmont 21st Avenue Conceptual Public Infrastructure Opinion of Probable Cost**

Section B Hackberry Circle to Main Street

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	1.2	miles	\$20,000	\$25,000
<b>Pavement Markings</b>					
2	Arrows	38	SF	\$12	\$500
3	Bike symbol	1,664	SF	\$12	\$20,000
4	Striping	178	gal	\$35	\$7,000
<b>Concrete Hardscape</b>					
5	4 in Sidewalk	12,800	SY	\$60	\$768,000
6	Curb Ramp	42	No.	\$1,500	\$63,000
<b>Sinage</b>					
7	Signs	6	No.	\$500	\$3,000
<b>Landscaping</b>					
8	Sod and Irrigation	32,000	SF	\$3	\$96,000
9	Trees (30' O.C.)	213	each	\$700	\$150,000
<b>SUB-TOTAL</b>					<b>\$ 1,200,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 240,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 96,000</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 60,000</b>
<b>TOTAL</b>					<b>\$ 1,600,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.







**City of Longmont 21st Avenue Conceptual Public Infrastructure Opinion of Probable Cost**

Section C Main Street to West of Railroad

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.4	miles	\$20,000	\$8,000
<b>Pavement Markings</b>					
2	Arrows	38	SF	\$12	\$500
3	Bike symbol	728	SF	\$12	\$9,000
4	Striping	111	gal	\$35	\$4,000
<b>Concrete Hardscape</b>					
5	4 in Sidewalk	1,867	SY	\$60	\$112,000
6	Curb Ramp	24	No.	\$1,500	\$36,000
<b>Sinage</b>					
7	Signs	2	No.	\$500	\$1,000
<b>Landscaping</b>					
8	Sod and Irrigation	8,400	SF	\$3	\$26,000
<b>SUB-TOTAL</b>					<b>\$ 200,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 40,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 16,000</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 10,000</b>
<b>TOTAL</b>					<b>\$ 300,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.

**City of Longmont 21st Avenue Conceptual Public Infrastructure Opinion of Probable Cost**

Section D & E West of Railroad to Railroad [No Change] & Railroad to Mt. Sneffles

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.1	miles	\$20,000	\$2,000
<b>Pavement Markings</b>					
2	Arrows	38	SF	\$12	\$500
3	Bike symbol	104	SF	\$12	\$2,000
4	Striping	20	gal	\$35	\$1,000
<b>Concrete Hardscape</b>					
5	4 in Sidewalk	356	SY	\$60	\$21,333
6	Curb Ramp	4	No.	\$1,500	\$6,000
<b>Signage</b>					
7	Signs	2	No.	\$500	\$1,000
<b>SUB-TOTAL</b>					<b>\$ 40,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 8,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 4,000</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 2,000</b>
<b>TOTAL</b>					<b>\$ 100,000</b>
<b>Basis for Cost Projection:</b>					
<input checked="" type="checkbox"/> No Design Completed <input type="checkbox"/> Conceptual Design <input type="checkbox"/> Final Design					
<p>This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.</p>					
<b>Notes:</b>					
1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List					
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo					
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars					
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.					
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'					
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.					





**City of Longmont 21st Avenue Conceptual Public Infrastructure Opinion of Probable Cost**

Section F Sunlight Drive to Alpine Drive

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.2	miles	\$20,000	\$5,000
<b>Pavement Markings</b>					
2	Arrows	38	SF	\$12	\$500
3	Bike symbol	312	SF	\$12	\$4,000
4	Striping	53	gal	\$35	\$2,000
<b>Concrete Hardscape</b>					
5	4 in Sidewalk	1,067	SY	\$60	\$64,000
6	Curb Ramp	4	No.	\$1,500	\$6,000
<b>Sinage</b>					
7	Signs	2	No.	\$500	\$1,000
<b>SUB-TOTAL</b>					<b>\$ 83,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 17,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 7,000</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 5,000</b>
<b>TOTAL</b>					<b>\$ 200,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider sidewalk.

21st Avenue Improvements Cost Opinion Summary		
Option	Description	Total Cost Per Section
Section A	Hover Street to Hackberry Circle	\$600,000
Section B	Hackberry Circle to Main Street	\$1,600,000
Section C	Main Street to West of Railroad	\$300,000
Section D & E	West of Railroad to Railroad [No Change] & Railroad to Mt. Sneffles	\$100,000
Section F	Sunlight Drive to Alpine Drive	\$200,000
<b>Total Cost of Project:</b>		<b>\$2,600,000</b>







**City of Longmont Dry Creek Drive Conceptual Public Infrastructure Opinion of Probable Cost**

Section A S. Fordham Street to bike path under SH 119

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.8	miles	\$20,000	\$16,000
<b>Pavement Markings</b>					
2	Arrows	38	SF	\$12	\$500
3	Bike symbol	1,040	SF	\$12	\$13,000
4	Striping	252	gal	\$35	\$9,000
<b>Sinage</b>					
5	Signs	4	No.	\$500	\$2,000
<b>SUB-TOTAL</b>					<b>\$ 50,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 10,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 4,000</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 3,000</b>
<b>TOTAL</b>					<b>\$ 70,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.

Dry Creek Drive Improvements Cost Opinion Summary		
Option	Description	Total Cost Per Section
Section A	S. Fordham Street to bike path under SH 119	\$70,000
Total Cost of Project:		\$70,000





**City of Longmont Emery Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section A Mountain View Avenue to 11th Avenue

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.2	miles	\$20,000	\$5,000
2	Curb/Gutter removal	1,300	LF	\$6	\$8,000
<b>Pavement Markings</b>					
3	Sharrows	20	SF	\$12	\$300
4	Bike symbol	104	SF	\$12	\$2,000
5	Striping	7	gal	\$35	\$300
<b>Concrete Hardscape</b>					
6	New Curb and Gutter	1,300	LF	\$30	\$39,000
7	4 in Sidewalk	1,156	SY	\$60	\$70,000
8	Curb Ramp	6	No.	\$1,500	\$9,000
<b>Sinage</b>					
9	Signs	2	No.	\$500	\$1,000
<b>SUB-TOTAL</b>				\$	<b>140,000</b>
<b>CONTINGENCY (20%)</b>				\$	<b>28,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>				\$	<b>12,000</b>
<b>MOBILIZATION (5%)</b>				\$	<b>7,000</b>
<b>TOTAL</b>				\$	<b>200,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharrows is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.

**City of Longmont Emery Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section B 11TH Avenue to 10th Avenue

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.1	miles	\$20,000	\$3,000
<b>Pavement Markings</b>					
3	Sharrows	20	SF	\$12	\$300
3	Bike symbol	104	SF	\$12	\$2,000
4	Striping	1	gal	\$35	\$100
<b>Concrete Hardscape</b>					
5	4 in Sidewalk	551	SY	\$60	\$34,000
6	Curb Ramp	2	No.	\$1,500	\$3,000
<b>Sinage</b>					
7	Signs	2	No.	\$500	\$1,000
<b>SUB-TOTAL</b>					\$ 44,000
<b>CONTINGENCY (20%)</b>					\$ 9,000
<b>CONTRACTOR O&amp;P (8%)</b>					\$ 4,000
<b>MOBILIZATION (5%)</b>					\$ 3,000
<b>TOTAL</b>					\$ 60,000

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharrows is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.







**City of Longmont Emery Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section C 10th Avenue to 9th Avenue

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY						
Item	Description	Quantity	Units	Price	Cost	
<b>Demo</b>						
1	Marking removal	0.1	miles	\$20,000	\$3,000	
<b>Pavement Markings</b>						
2	Sharrows	20	SF	\$12	\$300	
3	Bike symbol	104	SF	\$12	\$2,000	
4	Striping	1	gal	\$35	\$100	
<b>Concrete Hardscape</b>						
5	4 in Sidewalk	560	SY	\$60	\$34,000	
6	Curb Ramp	2	No.	\$1,500	\$3,000	
<b>Signage</b>						
7	Signs	2	No.	\$500	\$1,000	
<b>SUB-TOTAL</b>					\$	<b>44,000</b>
<b>CONTINGENCY (20%)</b>					\$	<b>9,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					\$	<b>4,000</b>
<b>MOBILIZATION (5%)</b>					\$	<b>3,000</b>
<b>TOTAL</b>					\$	<b>60,000</b>
<b>Basis for Cost Projection:</b>						
<input checked="" type="checkbox"/> No Design Completed <input type="checkbox"/> Conceptual Design <input type="checkbox"/> Final Design						
<p>This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.</p>						
<b>Notes:</b>						
1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List						
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo						
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars						
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.						
5. Arrows are 9.5' x 2'; sharrows are 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'						
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.						

**City of Longmont Emery Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section D 9th Avenue to 1st Avenue

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.9	miles	\$20,000	\$19,000
2	Curb/Gutter removal	4,950	LF	\$6	\$30,000
<b>Pavement Markings</b>					
3	Sharrow	20	SF	\$12	\$300
4	Bike symbol	936	SF	\$12	\$12,000
5	Striping	22	gal	\$35	\$800
<b>Concrete Hardscape</b>					
6	New Curb and Gutter	40,950	LF	\$30	\$1,300,000
7	4 in Sidewalk	7,150	SY	\$60	\$430,000
8	Curb Ramp	64	No.	\$1,500	\$96,000
<b>Sinage</b>					
9	Signs	6	No.	\$500	\$3,000
<b>SUB-TOTAL</b>				\$	<b>1,900,000</b>
<b>CONTINGENCY (20%)</b>				\$	<b>380,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>				\$	<b>160,000</b>
<b>MOBILIZATION (5%)</b>				\$	<b>100,000</b>
<b>TOTAL</b>				\$	<b>2,600,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharrow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.



<b>Emery Street Improvements Cost Opinion Summary</b>		
<b>Option</b>	<b>Description</b>	<b>Total Cost Per Section</b>
<b>Section A</b>	Mountain View Avenue to 11th Avenue	\$200,000
<b>Section B</b>	11TH Avenue to 10th Avenue	\$60,000
<b>Section C</b>	10th Avenue to 9th Avenue	\$60,000
<b>Section D</b>	9th Avenue to 1st Avenue	\$2,600,000
	<b>Total Cost of Project:</b>	<b>\$2,620,000</b>





**City of Longmont Fordham Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section A Mountain View to Railroad

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.6	miles	\$20,000	\$12,000
2	Curb/Gutter removal	3,150	LF	\$6	\$19,000
<b>Pavement Markings</b>					
3	Arrows	19	SF	\$12	\$300
4	Sharrow	10	SF	\$12	\$200
5	Bike symbol	936	SF	\$12	\$12,000
6	Striping	102	gal	\$35	\$4,000
<b>Concrete Hardscape</b>					
7	New Curb and Gutter	3,150	LF	\$30	\$94,500
8	4 in Sidewalk	2,800	SY	\$60	\$168,000
9	Curb Ramp	12	No.	\$1,500	\$18,000
<b>Sinage</b>					
10	Signs	2	No.	\$500	\$1,000
<b>SUB-TOTAL</b>					<b>\$ 330,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 66,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 27,000</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 17,000</b>
<b>TOTAL</b>					<b>\$ 500,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.



**City of Longmont Fordham Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section B Nelson Road to Dry Creek Road

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.6	miles	\$20,000	\$13,000
2	Curb/Gutter removal	3,200	LF	\$6	\$20,000
<b>Pavement Markings</b>					
3	Arrows	38	SF	\$12	\$500
4	Bike symbol	832	SF	\$12	\$10,000
5	Striping	138	gal	\$35	\$5,000
<b>Concrete Hardscape</b>					
6	New Curb and Gutter	3,200	LF	\$30	\$96,000
7	4 in Sidewalk	4,267	SY	\$60	\$256,000
8	Curb Ramp	16	No.	\$1,500	\$24,000
<b>Sinage</b>					
9	Signs	4	No.	\$500	\$2,000
<b>SUB-TOTAL</b>				\$	<b>430,000</b>
<b>CONTINGENCY (20%)</b>				\$	<b>86,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>				\$	<b>35,000</b>
<b>MOBILIZATION (5%)</b>				\$	<b>21,500</b>
<b>TOTAL</b>				\$	<b>600,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.



<b>Fordham Street Improvements Cost Opinion Summary</b>		
<b>Option</b>	<b>Description</b>	<b>Total Cost Per Section</b>
<b>Section A</b>	Mountain View to Railroad	\$500,000
<b>Section B</b>	Nelson Road to Dry Creek Road	\$600,000
<b>Total Cost of Project:</b>		<b>\$1,100,000</b>

**City of Longmont Gay Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section A Highway 66 to 17th Avenue

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.8	miles	\$20,000	\$16,000
2	Curb/Gutter removal	4,200	LF	\$6	\$26,000
<b>Pavement Markings</b>					
3	Arrows	38	SF	\$12	\$500
4	Bike symbol	1,248	SF	\$12	\$15,000
5	Striping	224	gal	\$35	\$8,000
<b>Concrete Hardscape</b>					
6	New Curb and Gutter	76,200	LF	\$30	\$2,290,000
7	4 in Sidewalk	3,733	SY	\$60	\$224,000
8	Curb Ramp	48	No.	\$1,500	\$72,000
<b>Sinage</b>					
9	Signs	12	No.	\$500	\$6,000
<b>SUB-TOTAL</b>				\$	<b>2,700,000</b>
<b>CONTINGENCY (20%)</b>				\$	<b>540,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>				\$	<b>216,000</b>
<b>MOBILIZATION (5%)</b>				\$	<b>135,000</b>
<b>TOTAL</b>				\$	<b>3,600,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.





**City of Longmont Gay Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section B 17th Avenue to 9th Avenue

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	1.0	miles	\$20,000	\$20,000
2	Curb/Gutter removal	5,200	LF	\$6	\$32,000
<b>Pavement Markings</b>					
3	Arrows	38	SF	\$12	\$500
4	Bike symbol	832	SF	\$12	\$10,000
5	Striping	324	gal	\$35	\$12,000
<b>Concrete Hardscape</b>					
6	New Curb and Gutter	53,200	LF	\$30	\$1,600,000
7	4 in Sidewalk	4,622	SY	\$60	\$280,000
8	Curb Ramp	40	No.	\$1,500	\$60,000
<b>Sinage</b>					
9	Signs	8	No.	\$500	\$4,000
<b>SUB-TOTAL</b>				\$	<b>2,020,000</b>
<b>CONTINGENCY (20%)</b>				\$	<b>410,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>				\$	<b>170,000</b>
<b>MOBILIZATION (5%)</b>				\$	<b>110,000</b>
<b>TOTAL</b>				\$	<b>2,800,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.



**City of Longmont Gay Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section C 9th Avenue to 2nd Avenue

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.7	miles	\$20,000	\$15,000
<b>Pavement Markings</b>					
2	Arrows	38	SF	\$12	\$500
3	Bike symbol	728	SF	\$12	\$9,000
4	Striping	272	gal	\$35	\$10,000
<b>Concrete Hardscape</b>					
5	New Curb and Gutter	84,000	LF	\$30	\$2,520,000
6	Curb Ramp	56	No.	\$1,500	\$84,000
<b>Sinage</b>					
7	Signs	6	No.	\$500	\$3,000
<b>SUB-TOTAL</b>					<b>\$ 2,700,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 540,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 216,000</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 135,000</b>
<b>TOTAL</b>					<b>\$ 3,600,000</b>
<b>Basis for Cost Projection:</b>					
<input checked="" type="checkbox"/> No Design Completed <input type="checkbox"/> Conceptual Design <input type="checkbox"/> Final Design					
<p>This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.</p>					
<b>Notes:</b>					
1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List 2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo 3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars 4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines. 5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4' 6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.					





**City of Longmont Gay Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section D 2nd Avenue to Price Road

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.2	miles	\$20,000	\$5,000
2	Curb/Gutter removal	1,200	LF	\$6	\$8,000
<b>Pavement Markings</b>					
3	Arrows	38	SF	\$12	\$500
4	Bike symbol	104	SF	\$12	\$2,000
5	Striping	74	gal	\$35	\$3,000
<b>Concrete Hardscape</b>					
6	New Curb and Gutter	25,200	LF	\$30	\$760,000
7	4 in Sidewalk	1,067	SY	\$60	\$70,000
8	Curb Ramp	8	No.	\$1,500	\$12,000
<b>Sinage</b>					
9	Signs	2	No.	\$500	\$1,000
<b>SUB-TOTAL</b>				\$	<b>870,000</b>
<b>CONTINGENCY (20%)</b>				\$	<b>174,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>				\$	<b>70,000</b>
<b>MOBILIZATION (5%)</b>				\$	<b>43,500</b>
<b>TOTAL</b>				\$	<b>1,200,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

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**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.

<b>Gay Street Improvements Cost Opinion Summary</b>		
<b>Option</b>	<b>Description</b>	<b>Total Cost Per Section</b>
<b>Section A</b>	Highway 66 to 17th Avenue	\$3,600,000
<b>Section B</b>	17th Avenue to 9th Avenue	\$2,800,000
<b>Section C</b>	9th Avenue to 2nd Avenue	\$3,600,000
<b>Section D</b>	2nd Avenue to Price Road	\$1,200,000
<b>Total Cost of Project:</b>		<b>\$11,200,000</b>





**City of Longmont Mt View Avenue Conceptual Public Infrastructure Opinion of Probable Cost**

Section A Airport Road To Hover Street

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	1.0	miles	\$20,000	\$21,000
<b>Pavement Markings</b>					
2	Arrows	38	SF	\$12	\$500
3	Bike symbol	1,872	SF	\$12	\$23,000
4	Striping	402	gal	\$35	\$15,000
<b>Concrete Hardscape</b>					
5	4 in Sidewalk	4,800	SY	\$60	\$288,000
6	Curb Ramp	32	No.	\$1,500	\$48,000
<b>Sinage</b>					
7	Signs	4	No.	\$500	\$2,000
<b>SUB-TOTAL</b>					\$ 400,000
<b>CONTINGENCY (20%)</b>					\$ 80,000
<b>CONTRACTOR O&amp;P (8%)</b>					\$ 32,000
<b>MOBILIZATION (5%)</b>					\$ 20,000
<b>TOTAL</b>					\$ 600,000
<b>Basis for Cost Projection:</b>					
<input checked="" type="checkbox"/> No Design Completed <input type="checkbox"/> Conceptual Design <input type="checkbox"/> Final Design					
<p>This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.</p>					
<b>Notes:</b>					
1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List 2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo 3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars 4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines. 5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4' 6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.					

**City of Longmont Mt View Avenue Conceptual Public Infrastructure Opinion of Probable Cost**

Section B Hover Street to Francis Street

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.6	miles	\$20,000	\$13,000
<b>Pavement Markings</b>					
2	Arrows	38	SF	\$12	\$500
3	Bike symbol	1,352	SF	\$12	\$17,000
4	Striping	141	gal	\$35	\$5,000
<b>Concrete Hardscape</b>					
5	4 in Sidewalk	2,889	SY	\$60	\$180,000
6	Curb Ramp	18	No.	\$1,500	\$27,000
<b>Sinage</b>					
7	Signs	2	No.	\$500	\$1,000
<b>Landscaping</b>					
8	Sod and Irrigation	26,000	SF	\$3	\$78,000
9	Trees (30' O.C.)	108	each	\$700	\$80,000
<b>SUB-TOTAL</b>					<b>\$ 410,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 82,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 40,000</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 30,000</b>
<b>TOTAL</b>					<b>\$ 600,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.

**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.





**City of Longmont Mt View Avenue Conceptual Public Infrastructure Opinion of Probable Cost**

Section C Francis Street to Bross Street

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY						
Item	Description	Quantity	Units	Price	Cost	
<b>Demo</b>						
1	Marking removal	0.4	miles	\$20,000	\$8,000	
<b>Pavement Markings</b>						
2	Arrows	38	SF	\$12	\$500	
3	Bike symbol	832	SF	\$12	\$10,000	
4	Striping	134	gal	\$35	\$5,000	
<b>Concrete Hardscape</b>						
5	4 in Sidewalk	1,778	SY	\$60	\$107,000	
6	Curb Ramp	16	No.	\$1,500	\$24,000	
<b>Sinage</b>						
7	Signs	4	No.	\$500	\$2,000	
<b>SUB-TOTAL</b>					\$	<b>160,000</b>
<b>CONTINGENCY (20%)</b>					\$	<b>32,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					\$	<b>13,000</b>
<b>MOBILIZATION (5%)</b>					\$	<b>8,000</b>
<b>TOTAL</b>					\$	<b>300,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.

**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.

**City of Longmont Mt View Avenue Conceptual Public Infrastructure Opinion of Probable Cost**

Section D Bross Street to Collyer Street

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.6	miles	\$20,000	\$12,000
2	Curb/Gutter removal	3,000	LF	\$6	\$18,000
<b>Pavement Markings</b>					
3	Arrows	38	SF	\$12	\$500
4	Bike symbol	1,040	SF	\$12	\$13,000
5	Striping	133	gal	\$35	\$5,000
<b>Concrete Hardscape</b>					
6	New Curb and Gutter	3,000	LF	\$30	\$90,000
7	4 in Sidewalk	2,667	SY	\$60	\$160,000
8	Curb Ramp	22	No.	\$1,500	\$33,000
<b>Sinage</b>					
9	Signs	4	No.	\$500	\$2,000
<b>Landscaping</b>					
10	Sod and Irrigation	24,000	SF	\$3	\$72,000
11	Trees (30' O.C.)	100	each	\$700	\$70,000
<b>SUB-TOTAL</b>				\$	<b>480,000</b>
<b>CONTINGENCY (20%)</b>				\$	<b>96,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>				\$	<b>39,000</b>
<b>MOBILIZATION (5%)</b>				\$	<b>24,000</b>
<b>TOTAL</b>				\$	<b>700,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.

**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.







**City of Longmont Mt View Avenue Conceptual Public Infrastructure Opinion of Probable Cost**

Section E Collyer Street to Alpine Street

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.7	miles	\$20,000	\$15,000
2	Curb/Gutter removal	3,850	LF	\$6	\$24,000
<b>Pavement Markings</b>					
3	Arrows	38	SF	\$12	\$500
4	Bike symbol	1,144	SF	\$12	\$14,000
5	Striping	219	gal	\$35	\$8,000
<b>Concrete Hardscape</b>					
6	New Curb and Gutter	3,850	LF	\$30	\$116,000
7	4 in Sidewalk	3,422	SY	\$60	\$206,000
8	Curb Ramp	22	No.	\$1,500	\$33,000
<b>Sinage</b>					
9	Signs	4	No.	\$500	\$2,000
<b>SUB-TOTAL</b>				\$	<b>420,000</b>
<b>CONTINGENCY (20%)</b>				\$	<b>84,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>				\$	<b>40,000</b>
<b>MOBILIZATION (5%)</b>				\$	<b>21,000</b>
<b>TOTAL</b>				\$	<b>600,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.

**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.

**City of Longmont Mt View Avenue Conceptual Public Infrastructure Opinion of Probable Cost**

Section F Alpine Street to Deerwood Drive - Option 1

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.8	miles	\$20,000	\$16,000
<b>Pavement Markings</b>					
2	Arrows	38	SF	\$12	\$500
3	Bike symbol	832	SF	\$12	\$10,000
4	Striping	247	gal	\$35	\$9,000
<b>Concrete Hardscape</b>					
5	Curb Ramp	2	No.	\$1,500	\$3,000
<b>Sinage</b>					
6	Signs	4	No.	\$500	\$2,000
<b>SUB-TOTAL</b>				\$	<b>50,000</b>
<b>CONTINGENCY (20%)</b>				\$	<b>10,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>				\$	<b>4,000</b>
<b>MOBILIZATION (5%)</b>				\$	<b>3,000</b>
<b>TOTAL</b>				\$	<b>70,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.

**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.



<b>Mt. View Avenue Improvements Cost Opinion Summary</b>		
<b>Option</b>	<b>Description</b>	<b>Total Cost Per Section</b>
<b>Section A</b>	Airport Road To Hover Street	\$600,000
<b>Section B</b>	Hover Street to Francis Street	\$600,000
<b>Section C</b>	Francis Street to Bross Street	\$300,000
<b>Section D</b>	Bross Street to Collyer Street	\$700,000
<b>Section E</b>	Collyer Street to Alpine Street	\$600,000
<b>Section F</b>	Alpine Street to Deerwood Drive - Option 1	\$70,000
<b>Total Cost of Project:</b>		<b>\$2,200,000</b>

**City of Longmont Price Road Conceptual Public Infrastructure Opinion of Probable Cost**

Section A Gay Street to Boston Avenue

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.1	miles	\$20,000	\$2,000
2	Curb/Gutter removal	350	LF	\$6	\$3,000
<b>Pavement Markings</b>					
3	Arrows	38	SF	\$12	\$500
4	Striping	7	gal	\$35	\$300
<b>Concrete Hardscape</b>					
5	New Curb and Gutter	350	LF	\$30	\$11,000
6	4 in Sidewalk	506	SY	\$60	\$31,000
7	Curb Ramp	2	No.	\$1,500	\$3,000
<b>Sinage</b>					
8	Signs	2	No.	\$500	\$1,000
<b>SUB-TOTAL</b>				\$	<b>60,000</b>
<b>CONTINGENCY (20%)</b>				\$	<b>12,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>				\$	<b>5,000</b>
<b>MOBILIZATION (5%)</b>				\$	<b>3,000</b>
<b>TOTAL</b>				\$	<b>80,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.

**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.





**City of Longmont Price Road Conceptual Public Infrastructure Opinion of Probable Cost**

Section B Boston Avenue to cul de sac

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.2	miles	\$20,000	\$4,000
2	Curb/Gutter removal	800	LF	\$6	\$5,000
<b>Pavement Markings</b>					
3	Sharrow	20	SF	\$12	\$300
4	Bike symbol	208	SF	\$12	\$3,000
5	Striping	25	gal	\$35	\$900
<b>Concrete Hardscape</b>					
6	New Curb and Gutter	800	LF	\$30	\$24,000
7	4 in Sidewalk	1,156	SY	\$60	\$70,000
8	Curb Ramp	2	No.	\$1,500	\$3,000
<b>Signage</b>					
9	Signs	2	No.	\$500	\$1,000
<b>Landscaping</b>					
10	Sod and Irrigation	3,200	SF	\$3	\$10,000
11	Trees (30' O.C.)	27	each	\$700	\$19,000
<b>SUB-TOTAL</b>					<b>\$ 150,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 30,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 20,000</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 8,000</b>
<b>TOTAL</b>					<b>\$ 300,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.

**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.

**City of Longmont Price Road Conceptual Public Infrastructure Opinion of Probable Cost**

Section C Forbes Court to Nelson Road

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.2	miles	\$20,000	\$5,000
2	Curb/Gutter removal	1,200	LF	\$6	\$7,200
<b>Pavement Markings</b>					
3	Sharrows	20	SF	\$12	\$300
4	Bike symbol	416	SF	\$12	\$5,000
5	Striping	36	gal	\$35	\$2,000
<b>Concrete Hardscape</b>					
6	New Curb and Gutter	1,200	LF	\$30	\$36,000
7	4 in Sidewalk	1,733	SY	\$60	\$104,000
8	Curb Ramp	8	No.	\$1,500	\$12,000
<b>Signage</b>					
9	Signs	2	No.	\$500	\$1,000
<b>Landscaping</b>					
10	Sod and Irrigation	18,000	SF	\$3	\$54,000
<b>SUB-TOTAL</b>					<b>\$ 230,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 46,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 18,400</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 11,500</b>
<b>TOTAL</b>					<b>\$ 400,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.

**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.



Price Road Improvements Cost Opinion Summary		
Option	Description	Total Cost Per Section
Section A	Gay Street to Boston Avenue	\$80,000
Section B	Boston Avenue to cul de sac	\$300,000
Section C	Forbes Court to Nelson Road	\$400,000
Total Cost of Project:		\$780,000



**City of Longmont Sunset Street Conceptual Public Infrastructure Opinion of Probable Cost**

Section A Creekside Drive to Plateau Road

Prepared By: Heidi Otten

Checked By: Troy Russ

Date Prepared: October 19, 2017

Updated: December 08, 2017

SECTION COST SUMMARY					
Item	Description	Quantity	Units	Price	Cost
<b>Demo</b>					
1	Marking removal	0.2	miles	\$20,000	\$5,000
2	Curb/Gutter removal	1,150	LF	\$6	\$7,000
<b>Pavement Markings</b>					
3	Arrows	38	SF	\$12	\$500
4	Bike symbol	104	SF	\$12	\$2,000
5	Striping	25	gal	\$35	\$900
<b>Concrete Hardscape</b>					
6	New Curb and Gutter	1,150	LF	\$30	\$35,000
7	4 in Sidewalk	1,022	SY	\$60	\$62,000
8	Curb Ramp	4	No.	\$1,500	\$6,000
<b>Sinage</b>					
9	Signs	4	No.	\$500	\$2,000
<b>Landscaping</b>					
10	Sod and Irrigation	9,200	SF	\$3	\$28,000
11	Trees (30' O.C.)	38	each	\$700	\$27,000
<b>SUB-TOTAL</b>					<b>\$ 180,000</b>
<b>CONTINGENCY (20%)</b>					<b>\$ 36,000</b>
<b>CONTRACTOR O&amp;P (8%)</b>					<b>\$ 15,000</b>
<b>MOBILIZATION (5%)</b>					<b>\$ 9,000</b>
<b>TOTAL</b>					<b>\$ 300,000</b>

**Basis for Cost Projection:**

- No Design Completed
- Conceptual Design
- Final Design

This OPC is not intended for basing financial decisions, or securing funding. Since Kimley-Horn, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions, any and all opinions as to the cost herein, including but not limited to opinions as to the costs of construction materials, shall be made on the basis of experience and best available data. Kimley-Horn, Inc. cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinions on costs shown herein. Contractor shall be responsible for their own take off and bid numbers. The quantities shown herein shall not be used for bidding purposes and may not be all inclusive.

**Notes:**

1. All unit costs come from CDOT 2017 Cost Book & City and County of Denver Bike Item Bid List
2. Demo was determined using information from previous cost opinion for Longmont sections. 1 mi stretch of pavement marking removal = \$20k. The ratio for (length of 1 block)/5280 rounded provides the price for one block of demo
3. Striping includes solid lines, dashed lines, bike lane buffers, parking land buffers, crosswalks, and stop bars
4. For a solid line, assume 1 gallon of paint for every foot; 0.5 gallons per foot for dashed lines.
5. Arrows are 9.5' x 2'; sharow is 3.3' x 3.3', bike symbol w/ arrow is 13' x 4'
6. Trees are included in landscape areas only in those areas adjacent to a 8' or wider multi-use trail.



<b>Sunset Street Improvements Cost Opinion Summary</b>		
<b>Option</b>	<b>Description</b>	<b>Total Cost Per Section</b>
<b>Section A</b>	Creekside Drive to Plateau Road	\$300,000
<b>Total Cost of Project:</b>		<b>\$300,000</b>