

APPENDIX B:

COST ESTIMATES

Downtown Focus Corridors

1. Acacia Parkway
2. Nelson Street
3. Stanford Avenue
4. 9th Street

Primary Downtown Corridors

5. Euclid Street
6. Garden Grove Boulevard
7. Main Street

Other Sidewalk Improvements

8. 7th Street
9. 8th Street
10. Grove Avenue



Preliminary Engineers Cost Estimate

City: Garden Grove
Project: Garden Grove Active Downtown
Location: Acacia Parkway from Nelson Street to 9th Street
Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|-------------------------------|---------------------------------------|--------------------|-----------------|------------|------------------|
| GENERAL | | | | | |
| 1 | Mobilization | 1 | LS | \$49,000 | \$49,000 |
| 1.01 | Traffic control | 1 | LS | \$24,500 | \$24,500 |
| 1.02 | Construction survey and monumentation | 1 | LS | \$24,500 | \$24,500 |
| GENERAL SUBTOTAL | | | | | \$98,000 |
| STREET | | | | | |
| Median Island | | | | | |
| 2 | Demo/Unclassified excavation | 130 | CY | \$70 | \$9,100 |
| 2.01 | Stamped decorative concrete | 250 | SF | \$40 | \$10,000 |
| 2.02 | PCC curb and gutter | 1800 | LF | \$50 | \$90,000 |
| Pedestrian refuge island | | | | | |
| 2.03 | Demo/Unclassified excavation | 25 | CY | \$70 | \$1,750 |
| 2.04 | PCC sidewalk | 650 | SF | \$8 | \$5,200 |
| 2.05 | PCC curb and gutter | 410 | LF | \$50 | \$20,500 |
| 2.06 | Detectable warning surface | 14 | EA | \$1,000 | \$14,000 |
| Sidewalk | | | | | |
| 2.07 | PCC curb ramp | 19 | EA | \$5,000 | \$95,000 |
| Curb Extension | | | | | |
| 2.08 | Demo/Unclassified excavation | 75 | CY | \$70 | \$5,250 |
| 2.09 | PCC sidewalk | 1360 | SF | \$8 | \$10,880 |
| 2.1 | Stamped concrete | 450 | SF | \$40 | \$18,000 |
| 2.11 | PCC curb and gutter | 750 | LF | \$50 | \$37,500 |
| 2.12 | PCC curb ramp | 8 | EA | \$5,000 | \$40,000 |
| Roundabout | | | | | |
| 2.13 | Demo/Unclassified excavation | 105 | CY | \$70 | \$7,350 |
| 2.14 | Mountable stamped concrete with rebar | 1330 | SF | \$50 | \$66,500 |
| 2.15 | Landscape | 1150 | SF | \$12 | \$13,800 |
| 2.16 | PCC curb and gutter | 200 | LF | \$50 | \$10,000 |
| 2.17 | PCC curb | 120 | LF | \$40 | \$4,800 |
| Diverter Island | | | | | |
| 2.18 | Demo/Unclassified excavation | 55 | CY | \$70 | \$3,850 |
| 2.19 | Stamped concrete | 1370 | SF | \$40 | \$54,800 |
| 2.2 | PCC curb and gutter | 430 | LF | \$50 | \$21,500 |
| Asphalt Concrete Pavement | | | | | |
| 2.21 | Demo/Unclassified excavation | 400 | CY | \$70 | \$28,000 |
| 2.22 | Asphalt concrete pavement | 30 | TON | \$200 | \$6,000 |
| STREET SUBTOTAL | | | | | \$573,780 |
| SIGNING & STRIPING | | | | | |
| 3.00 | Remove signing/striping | 1 | LS | \$5,000 | \$5,000 |
| 3.01 | Continental x-walk | 4300 | SF | \$2 | \$8,600 |
| 3.02 | Linear x-walk | 650 | LF | \$2 | \$1,300 |
| 3.03 | Install 12" limit line | 50 | LF | \$2 | \$100 |



City: Garden Grove
Project: Garden Grove Active Downtown
Location: Acacia Parkway from Nelson Street to 9th Street
Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|--------------------------------------|---|--------------------|-----------------|------------|--------------------|
| 3.04 | Install yield line marking | 50 | LF | \$2 | \$100 |
| 3.05 | Install pavement marking | 57 | EA | \$500 | \$28,500 |
| 3.06 | Detail 9 - Lane line | 125 | LF | \$1 | \$125 |
| 3.07 | Detail 22 - Double yellow | 2000 | LF | \$1 | \$2,000 |
| 3.08 | Detail 24 - Left edgeline | 550 | LF | \$1 | \$550 |
| 3.09 | Detail 25 - Left edgeline | 1750 | LF | \$1 | \$1,750 |
| 3.10 | Detail 32 - Two-way left turn lane | 260 | LF | \$1 | \$260 |
| 3.11 | Detail 38 - Channelizing Line | 1500 | LF | \$1 | \$1,500 |
| 3.12 | Detail 39 - Bike lane line | 9050 | LF | \$1 | \$9,050 |
| 3.13 | Detail 39A - Intersection line bike lane line | 1000 | LF | \$1 | \$1,000 |
| 3.14 | Detail 40 - Lane line extension | 125 | LF | \$1 | \$125 |
| 3.15 | Install parking T | 1500 | LF | \$1 | \$1,500 |
| 3.16 | Install 6" diagonal stripe | 1000 | LF | \$1 | \$1,000 |
| 3.17 | Install signage | 1 | LS | \$5,000 | \$2,500 |
| SIGNING AND STRIPING SUBTOTAL | | | | | \$64,960 |
| TOTAL | | | | | \$736,740 |
| 30% CONTINGENCY | | | | | \$221,022 |
| 10% DESIGN | | | | | \$73,674 |
| 15% CONSTRUCTION ENGINEERING | | | | | \$110,511 |
| GRAND TOTAL | | | | | \$1,141,947 |

Creative Crosswalks - Cost estimate only includes cost for high visibility continental crosswalks. Implementation of creative crosswalks will increase actual cost of Acacia Parkway corridor project. If the City chooses to pursue implementation of engineering infrastructure improvements first, creative crosswalks can be implemented at a later date. Eligibility of creative crosswalks will vary from funding source to funding source. However, formally developed creative crosswalk programs or guidelines (as recommended in the Plan) can help better plan for future maintenance costs and funding sponsorships. Location, artist fees, actual design, materials used, installation, and maintenance will all factor into actual cost. Implementation of creative crosswalks and crosswalk art in other cities have ranged between \$4,000¹ to \$40,000² for each crosswalk.

¹ https://www.oregonlive.com/commuting/2015/06/portland_unveils_citys_first_c.html
² <https://www.pressetelegram.com/2017/03/29/long-beachs-hip-new-crosswalks-more-like-cross-struts/>



Preliminary Engineers Cost Estimate

City: Garden Grove
Project: Garden Grove Active Downtown
Location: Nelson Street between Garden Grove Boulevard and Stanford Avenue
Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|---|---|--------------------|-----------------|------------|------------------|
| GENERAL | | | | | |
| 1 | Mobilization | 1 | LS | \$11,000 | \$11,000 |
| 1.01 | Traffic control | 1 | LS | \$5,500 | \$5,500 |
| 1.02 | Construction survey and monumentation | 1 | LS | \$5,500 | \$5,500 |
| GENERAL SUBTOTAL | | | | | \$22,000 |
| STREET | | | | | |
| Curb Extension | | | | | |
| 2 | Demo/Unclassified excavation | 35 | CY | \$70 | \$2,450 |
| 2.01 | PCC sidewalk | 900 | SF | \$8 | \$7,200 |
| 2.02 | PCC curb and gutter | 100 | LF | \$50 | \$5,000 |
| 2.03 | PCC curb ramp | 3 | EA | \$5,000 | \$15,000 |
| Median Island | | | | | |
| 2.04 | Demo/Unclassified excavation | 60 | CY | \$70 | \$4,200 |
| 2.05 | Stamped decorative concrete | 1500 | SF | \$40 | \$60,000 |
| 2.06 | PCC curb and gutter | 350 | LF | \$50 | \$17,500 |
| Sidewalk | | | | | |
| 2.07 | Demo/Unclassified excavation | 15 | CY | \$70 | \$1,050 |
| 2.08 | PCC sidewalk | 400 | SF | \$8 | \$3,200 |
| 2.09 | PCC curb ramp | 2 | EA | \$5,000 | \$10,000 |
| Asphalt Concrete Pavement | | | | | |
| 2.1 | Demo/Unclassified excavation | 10 | CY | \$70 | \$700 |
| 2.11 | Asphalt concrete Pavement | 2 | TON | \$200 | \$400 |
| STREET SUBTOTAL | | | | | \$126,700 |
| TRAFFIC SIGNAL | | | | | |
| Protected left-turn signal heads (NB and SB approaches at Nelson St/Century Blvd & Garden Grove Blvd) | | | | | |
| 3 | Traffic signal improvements (Furnish and install signal equipment and wiring) | 1 | LS | \$10,000 | \$10,000 |
| TRAFFIC SIGNAL SUBTOTAL | | | | | \$10,000 |
| SIGNING & STRIPING | | | | | |
| 4.00 | Remove striping | 1 | LS | \$1,000 | \$1,000 |
| 4.01 | Contintental x-walk | 350 | SF | \$2 | \$700 |
| 4.02 | Install pavement marking | 16 | EA | \$500 | \$8,000 |
| 4.03 | Detail 9 - Lane line | 250 | LF | \$1 | \$250 |
| 4.04 | Detail 38 - Channelizing Line | 850 | LF | \$1 | \$850 |
| 4.05 | Detail 39 - Bike lane line | 1850 | LF | \$1 | \$1,850 |
| 4.06 | Detail 39A - Intersection line bike lane line | 250 | LF | \$1 | \$250 |
| 4.07 | Install 6" diagonal white line | 500 | LF | \$1 | \$500 |
| 4.08 | Install 12" white line | 350 | LF | \$2 | \$700 |
| SIGNING & STRIPING SUBTOTAL | | | | | \$14,100 |
| TOTAL | | | | | \$172,800 |
| 30% CONTINGENCY | | | | | \$51,840 |
| 10% DESIGN | | | | | \$17,280 |



City: Garden Grove
Project: Garden Grove Active Downtown
Location: Nelson Street between Garden Grove Boulevard and Stanford Avenue
Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|----------|------------------|--------------------|-----------------|------------------------------|------------|
| | | | | 15% CONSTRUCTION ENGINEERING | \$25,920 |
| | | | | GRAND TOTAL | \$267,840 |



Preliminary Engineers Cost Estimate

City: Garden Grove
Project: Garden Grove Active Downtown
Location: Stanford Avenue from Euclid Street to 9th Street
Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|--------------------------------------|---|--------------------|-----------------|------------|------------------|
| GENERAL | | | | | |
| 1 | Mobilization | 1 | LS | \$20,000 | \$20,000 |
| 1.01 | Traffic control | 1 | LS | \$10,000 | \$10,000 |
| 1.02 | Construction survey and monumentation | 1 | LS | \$10,000 | \$10,000 |
| GENERAL SUBTOTAL | | | | | \$40,000 |
| STREET | | | | | |
| Median Island | | | | | |
| 2 | Demo/Unclassified excavation | 40 | CY | \$70 | \$2,800 |
| 2.01 | Landscape | 1000 | SF | \$12 | \$12,000 |
| 2.02 | PCC curb and gutter | 250 | LF | \$50 | \$12,500 |
| Curb Extension | | | | | |
| 2.03 | Demo/Unclassified excavation | 100 | CY | \$70 | \$7,000 |
| 2.04 | PCC sidewalk | 2600 | SF | \$8 | \$20,800 |
| 2.05 | PCC curb and gutter | 250 | LF | \$50 | \$12,500 |
| 2.06 | PCC curb ramp | 5 | EA | \$5,000 | \$25,000 |
| Asphalt Concrete Pavement | | | | | |
| 2.07 | Demo/Unclassified excavation | 40 | CY | \$70 | \$2,800 |
| 2.08 | Asphalt Concrete Pavement | 1 | TON | \$200 | \$200 |
| Sidewalk | | | | | |
| 2.09 | PCC curb ramp | 5 | EA | \$5,000 | \$25,000 |
| STREET SUBTOTAL | | | | | \$120,600 |
| SIGNING & STRIPING | | | | | |
| 3.00 | Remove signing/striping | 1 | LS | \$2,500 | \$2,500 |
| 3.01 | Contintental x-walk | 2850 | SF | \$2 | \$5,700 |
| 3.02 | Install pavement marking | 16 | EA | \$500 | \$8,000 |
| 3.03 | Detail 39 - Bike lane line | 5200 | LF | \$1 | \$5,200 |
| 3.04 | Detail 39A - Intersection line bike lane line | 400 | LF | \$1 | \$400 |
| 3.05 | Install 6" diagonal stripe | 150 | LF | \$1 | \$150 |
| 3.06 | Install signage | 1 | LS | \$2,500 | \$2,500 |
| 3.07 | Install RRFB system | 2 | LS | \$60,000 | \$120,000 |
| SIGNING AND STRIPING SUBTOTAL | | | | | \$144,450 |
| TOTAL | | | | | \$305,050 |
| 30% CONTINGENCY | | | | | \$91,515 |
| 10% DESIGN | | | | | \$30,505 |
| 15% CONSTRUCTION ENGINEERING | | | | | \$45,758 |
| GRAND TOTAL | | | | | \$472,828 |



Preliminary Engineers Cost Estimate

City: Garden Grove
Project: Garden Grove Active Downtown
Location: 9th Street from College Avenue to Garden Grove Boulevard
Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|--------------------------------------|---------------------------------------|--------------------|-----------------|------------|------------------|
| GENERAL | | | | | |
| 1 | Mobilization | 1 | LS | \$15,000 | \$15,000 |
| 1.01 | Traffic control | 1 | LS | \$7,500 | \$7,500 |
| 1.02 | Construction survey and monumentation | 1 | LS | \$7,500 | \$7,500 |
| GENERAL SUBTOTAL | | | | | \$30,000 |
| STREET | | | | | |
| Curb Extension | | | | | |
| 2 | Demo/Unclassified excavation | 320 | CY | \$70 | \$22,400 |
| 2.01 | PCC sidewalk | 8610 | SF | \$8 | \$68,880 |
| 2.02 | PCC curb and gutter | 750 | LF | \$50 | \$37,500 |
| 2.03 | PCC curb ramp | 11 | EA | \$5,000 | \$55,000 |
| 2.04 | Asphalt concrete pavement | 5 | TON | \$200 | \$1,000 |
| STREET SUBTOTAL | | | | | \$184,780 |
| SIGNING & STRIPING | | | | | |
| 3.00 | Remove signing/striping | 1 | LS | \$2,500 | \$2,500 |
| 3.01 | Contintental x-walk | 1200 | SF | \$2 | \$2,400 |
| 3.02 | Install yield line marking | 24 | LF | \$2 | \$48 |
| 3.03 | Install pavement marking | 1 | EA | \$500 | \$500 |
| 3.04 | Edgeline stripe | 4300 | LF | \$1 | \$4,300 |
| 3.05 | Detail 9 - Lane line | 1100 | LF | \$1 | \$1,100 |
| 3.06 | Detail 22 - Double yellow | 650 | LF | \$1 | \$650 |
| 3.07 | Install signage | 1 | LS | \$2,500 | \$2,500 |
| SIGNING AND STRIPING SUBTOTAL | | | | | \$13,998 |
| TOTAL | | | | | \$228,778 |
| 30% CONTINGENCY | | | | | \$68,633 |
| 10% DESIGN | | | | | \$22,878 |
| 15% CONSTRUCTION ENGINEERING | | | | | \$34,317 |
| GRAND TOTAL | | | | | \$354,606 |



Preliminary Engineers Cost Estimate

City: Garden Grove
Project: Garden Grove Active Downtown
Location: Euclid Street from Stanford Avenue to Acacia Parkway
Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|--------------------------------------|---------------------------------------|--------------------|-----------------|------------|------------------|
| GENERAL | | | | | |
| 1 | Mobilization | 1 | LS | \$9,000 | \$9,000 |
| 1.01 | Traffic control | 1 | LS | \$4,500 | \$4,500 |
| 1.02 | Construction survey and monumentation | 1 | LS | \$4,500 | \$4,500 |
| GENERAL SUBTOTAL | | | | | \$18,000 |
| STREET | | | | | |
| Shared Path | | | | | |
| 2 | Demo/Unclassified excavation | 275 | CY | \$70 | \$19,250 |
| 2.01 | PCC curb and gutter | 500 | LF | \$50 | \$25,000 |
| 2.02 | PCC sidewalk | 7400 | SF | \$8 | \$59,200 |
| 2.03 | PCC curb ramp | 1 | EA | \$5,000 | \$5,000 |
| 2.04 | Asphalt concrete pavement | 5 | TON | \$200 | \$1,000 |
| STREET SUBTOTAL | | | | | \$109,450 |
| SIGNING & STRIPING | | | | | |
| 3.00 | Remove signing/striping | 1 | LS | \$1,000 | \$1,000 |
| 3.01 | Continental x-walk | 1800 | SF | \$2 | \$3,600 |
| 3.02 | Install signage | 1 | LS | \$2,500 | \$2,500 |
| SIGNING AND STRIPING SUBTOTAL | | | | | \$7,100 |
| TOTAL | | | | | \$134,550 |
| 30% CONTINGENCY | | | | | \$40,365 |
| 10% DESIGN | | | | | \$13,455 |
| 15% CONSTRUCTION ENGINEERING | | | | | \$20,183 |
| GRAND TOTAL | | | | | \$208,553 |



Preliminary Engineers Cost Estimate

City: Garden Grove
Project: Garden Grove Active Downtown
Location: Garden Grove Boulevard between Nelson Street and 9th Street
Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|--|---------------------------------------|--------------------|-----------------|------------|-----------------|
| GENERAL | | | | | |
| 1 | Mobilization | 1 | LS | \$1,500 | \$1,500 |
| 1.01 | Traffic control | 1 | LS | \$750 | \$750 |
| 1.02 | Construction survey and monumentation | 1 | LS | \$750 | \$750 |
| GENERAL SUBTOTAL | | | | | \$3,000 |
| STREET | | | | | |
| Median Island | | | | | |
| 2 | Demo/Unclassified excavation | 10 | CY | \$70 | \$700 |
| 2.01 | Stamped decorative concrete | 125 | SF | \$40 | \$5,000 |
| 2.02 | PCC curb and gutter | 100 | LF | \$50 | \$5,000 |
| 2.03 | Asphalt concrete pavement | 1 | TON | \$200 | \$200 |
| STREET SUBTOTAL | | | | | \$10,900 |
| SIGNING & STRIPING | | | | | |
| 3.00 | Remove striping | 1 | LS | \$1,000 | \$1,000 |
| 3.01 | Contintental x-walk | 2250 | SF | \$2 | \$4,500 |
| 3.02 | Linear x-walk | 2100 | LF | \$2 | \$4,200 |
| SIGNING & STRIPING SUBTOTAL | | | | | \$9,700 |
| TOTAL | | | | | \$23,600 |
| 30% CONTINGENCY | | | | | \$7,080 |
| 10% DESIGN | | | | | \$2,360 |
| 15% CONSTRUCTION ENGINEERING | | | | | \$3,540 |
| GRAND TOTAL | | | | | \$36,580 |



Preliminary Engineers Cost Estimate

City: Garden Grove
 Project: Garden Grove Active Downtown
 Location: Main Street at Stanford Avenue
 Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|--------------------------------------|---------------------------------------|--------------------|-----------------|------------|------------------|
| GENERAL | | | | | |
| 1 | Mobilization | 1 | LS | \$6,500 | \$6,500 |
| 1.01 | Traffic control | 1 | LS | \$3,250 | \$3,250 |
| 1.02 | Construction survey and monumentation | 1 | LS | \$3,250 | \$3,250 |
| GENERAL SUBTOTAL | | | | | \$13,000 |
| STREET | | | | | |
| Curb Extension | | | | | |
| 2 | Demo/Unclassified excavation | 160 | CY | \$70 | \$11,200 |
| 2.01 | PCC Sidewalk | 3800 | SF | \$8 | \$30,400 |
| 2.02 | PCC curb and gutter | 250 | LF | \$50 | \$12,500 |
| 2.03 | PCC curb ramp | 5 | EA | \$5,000 | \$25,000 |
| 2.04 | Asphalt concrete pavement | 2 | TON | \$200 | \$400 |
| STREET SUBTOTAL | | | | | \$79,500 |
| SIGNING & STRIPING | | | | | |
| 3.00 | Remove signing/stripping | 1 | LS | \$1,000 | \$1,000 |
| 3.01 | Contintental x-walk | 770 | SF | \$2 | \$1,540 |
| 3.02 | Install signage | 1 | LS | \$2,500 | \$2,500 |
| SIGNING AND STRIPING SUBTOTAL | | | | | \$5,040 |
| TOTAL | | | | | \$97,540 |
| 30% CONTINGENCY | | | | | \$29,262 |
| 10% DESIGN | | | | | \$9,754 |
| 15% CONSTRUCTION ENGINEERING | | | | | \$14,631 |
| GRAND TOTAL | | | | | \$151,187 |



Preliminary Engineers Cost Estimate

City: Garden Grove
 Project: Garden Grove Active Downtown
 Location: 7th St from Acacia Parkway to Garden Grove Blvd
 Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|--|---------------------------------------|--------------------|-----------------|------------|------------------|
| GENERAL | | | | | |
| 1 | Mobilization | 1 | LS | \$6,000 | \$6,000 |
| 1.01 | Traffic control | 1 | LS | \$3,000 | \$3,000 |
| 1.02 | Construction survey and monumentation | 1 | LS | \$3,000 | \$3,000 |
| GENERAL SUBTOTAL | | | | | \$12,000 |
| STREET | | | | | |
| Sidewalk | | | | | |
| 2 | Demo/Unclassified excavation | 180 | CY | \$70 | \$12,600 |
| 2.01 | PCC curb and gutter and slot patch | 650 | LF | \$55 | \$35,750 |
| 2.02 | PCC Sidewalk | 3500 | SF | \$8 | \$28,000 |
| 2.03 | PCC curb ramp | 1 | EA | \$5,000 | \$5,000 |
| STREET SUBTOTAL | | | | | \$81,350 |
| SIGNING & STRIPING | | | | | |
| 3 | Remove signage (stop sign) | 1 | LS | \$1,000 | \$1,000 |
| 3.01 | Install signage (stop sign) | 1 | LS | \$1,000 | \$1,000 |
| SIGNING & STRIPING SUBTOTAL | | | | | \$2,000 |
| TOTAL | | | | | \$95,350 |
| 30% CONTINGENCY | | | | | \$28,605 |
| 10% DESIGN | | | | | \$9,535 |
| 15% CONSTRUCTION ENGINEERING | | | | | \$14,303 |
| GRAND TOTAL | | | | | \$147,793 |



Preliminary Engineers Cost Estimate

City: Garden Grove
Project: Garden Grove Active Downtown
Location: 8th Street from Acacia Parkway to Garden Grove Boulevard
Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|-------------------------------------|---------------------------------------|--------------------|-----------------|------------|-----------------|
| GENERAL | | | | | |
| 1 | Mobilization | 1 | LS | \$3,000 | \$3,000 |
| 1.01 | Traffic control | 1 | LS | \$1,500 | \$1,500 |
| 1.02 | Construction survey and monumentation | 1 | LS | \$1,500 | \$1,500 |
| GENERAL SUBTOTAL | | | | | \$6,000 |
| STREET | | | | | |
| Sidewalk | | | | | |
| 2 | Demo/Unclassified excavation | 90 | CY | \$70 | \$6,300 |
| 2.01 | PCC curb and gutter and slot patch | 350 | LF | \$55 | \$19,250 |
| 2.02 | PCC Sidewalk | 1650 | SF | \$8 | \$13,200 |
| STREET SUBTOTAL | | | | | \$38,750 |
| TOTAL | | | | | \$44,750 |
| 30% CONTINGENCY | | | | | \$13,425 |
| 10% DESIGN | | | | | \$4,475 |
| 15% CONSTRUCTION ENGINEERING | | | | | \$6,713 |
| GRAND TOTAL | | | | | \$69,363 |



Preliminary Engineers Cost Estimate

City: Garden Grove
Project: Garden Grove Active Downtown
Location: Grove Avenue between Acacia Parkway and Garden Grove Boulevard
Date: 1/30/2020

| ITEM NO. | ITEM DESCRIPTION | ESTIMATED QUANTITY | UNIT OF MEASURE | UNIT PRICE | ITEM TOTAL |
|-------------------------------------|---------------------------------------|--------------------|-----------------|------------|------------------|
| GENERAL | | | | | |
| 1 | Mobilization | 1 | LS | \$5,000 | \$5,000 |
| 1.01 | Traffic control | 1 | LS | \$2,500 | \$2,500 |
| 1.02 | Construction survey and monumentation | 1 | LS | \$2,500 | \$2,500 |
| GENERAL SUBTOTAL | | | | | \$10,000 |
| STREET | | | | | |
| Sidewalk | | | | | |
| 2 | Demo/Unclassified excavation | 100 | CY | \$70 | \$7,000 |
| 2.01 | PCC curb and gutter | 700 | LF | \$50 | \$35,000 |
| 2.02 | PCC sidewalk | 2550 | SF | \$8 | \$20,400 |
| 2.03 | PCC curb ramp | 2 | EA | \$5,000 | \$10,000 |
| 2.04 | Asphalt concrete pavement | 5 | TON | \$200 | \$1,000 |
| STREET SUBTOTAL | | | | | \$73,400 |
| TOTAL | | | | | \$83,400 |
| 30% CONTINGENCY | | | | | \$25,020 |
| 10% DESIGN | | | | | \$8,340 |
| 15% CONSTRUCTION ENGINEERING | | | | | \$12,510 |
| GRAND TOTAL | | | | | \$129,270 |