<table>
<thead>
<tr>
<th>COUNTERMEASURE</th>
<th>ITEM DESCRIPTION</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT OF MEASURE</th>
<th>UNIT PRICE</th>
<th>ITEM TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVIL</td>
<td>Demo/unclassified excavation</td>
<td>130 CY</td>
<td>CY</td>
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<td>$45,500</td>
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<tr>
<td></td>
<td>Native fill</td>
<td>115 CY</td>
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<tr>
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<td>Install curb and gutter</td>
<td>800 LF</td>
<td>LF</td>
<td>$65</td>
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<tr>
<td></td>
<td>Install 4&quot; PCC sidewalk</td>
<td>4,794 SF</td>
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<td>$15</td>
<td>$71,910</td>
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<td>Install curb ramp</td>
<td>2 EA</td>
<td>EA</td>
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<td><strong>SIGNING AND STRIPING</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Remove striping</td>
<td>3,715 LF</td>
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<td>Install limit line striping</td>
<td>1,051 LF</td>
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<td>Install white continental crosswalk</td>
<td>5,547 SF</td>
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<td>Install yellow continental crosswalk</td>
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<td>Install new traffic signal</td>
<td>1 LS</td>
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<td>R33PB</td>
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<td>Remove pavement marking</td>
<td>32 EA</td>
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<td>Install striping (solid)</td>
<td>23,341 LF</td>
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<td>Install striping (dashed)</td>
<td>15,870 LF</td>
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<td>Install striping (double yellow)</td>
<td>11,815 LF</td>
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<td>$25,993</td>
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<td>Install green conflict zone striping</td>
<td>5,291 LF</td>
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<td>$500</td>
<td>$67,000</td>
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<tr>
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<td>Remove sign and post (R1-1 at 3rd Ave)</td>
<td>1 EA</td>
<td>EA</td>
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<td>$150</td>
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<tr>
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<td>Install sign panel and post</td>
<td>20 EA</td>
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<td>Install sign panel - R2-1(40)</td>
<td>4 EA</td>
<td>EA</td>
<td>$500</td>
<td>$2,000</td>
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<tr>
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<td>Remove sign panel - R2-1(50)</td>
<td>4 EA</td>
<td>EA</td>
<td>$50</td>
<td>$200</td>
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<tr>
<td></td>
<td>Install K71-Type bollard delineator</td>
<td>332 EA</td>
<td>EA</td>
<td>$225</td>
<td>$74,700</td>
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<td>Install red curb</td>
<td>415 LF</td>
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<td>$830</td>
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<td>NS14</td>
<td>Demo/unclassified excavation</td>
<td>10 CY</td>
<td>CY</td>
<td>$350</td>
<td>$3,500</td>
</tr>
<tr>
<td></td>
<td>Native fill</td>
<td>10 CY</td>
<td>CY</td>
<td>$60</td>
<td>$600</td>
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<tr>
<td></td>
<td>Install curb only</td>
<td>102 LF</td>
<td>LF</td>
<td>$50</td>
<td>$5,100</td>
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<tr>
<td></td>
<td>Install 4&quot; PCC sidewalk</td>
<td>407 SF</td>
<td>SF</td>
<td>$15</td>
<td>$6,105</td>
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<tr>
<td></td>
<td><strong>SIGNING AND STRIPING</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Remove striping</td>
<td>30 LF</td>
<td>LF</td>
<td>$1</td>
<td>$30</td>
</tr>
<tr>
<td></td>
<td>Remove pavement marking</td>
<td>1 EA</td>
<td>EA</td>
<td>$300</td>
<td>$300</td>
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<tr>
<td></td>
<td>Install limit line</td>
<td>12 LF</td>
<td>LF</td>
<td>$3.50</td>
<td>$42</td>
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<tr>
<td></td>
<td>Install pavement marking</td>
<td>1 EA</td>
<td>EA</td>
<td>$500</td>
<td>$500</td>
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<td></td>
<td><strong>COUNTERMEASURE SUBTOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td>$16,177</td>
</tr>
</tbody>
</table>

**TOTAL FOR BASE BID ITEMS** | **$1,135,029**

- **MOBILIZATION & DEMOBILIZATION** | **$113,503**
- **TRAFFIC CONTROL, PUBLIC CONVENIENCE AND SAFETY** | **$50,000**
- **CONSTRUCTION SURVEY AND MONUMENTATION** | **$20,000**
- **FINAL DESIGN** | **$120,000**
- **CONSTRUCTION MANAGEMENT AND INSPECTION** | **$80,840**
- **PROJECT MANAGEMENT** | **$113,503**
- **STORM WATER BEST MANAGEMENT PRACTICES (BMPs)** | **$120,000**
- **30% CONTINGENCY** | **$525,863**
- **INFLATION ADJUSTMENT (3% PER YEAR @ 6 YEARS)** | **$442,194**

**GRAND TOTAL** | **$2,720,932**
NOTE:
ALL PEDESTRIAN HEADS SHALL BE COUNTDOWN AND PEDESTRIAN PUSH BUTTONS SHALL BE ADA-COMPATANT.
## CITY OF SAN BERNARDINO
### HIGHLAND AVENUE AND EUCALYPTUS DRIVE
### PRELIMINARY ENGINEER’S COST ESTIMATE

<table>
<thead>
<tr>
<th>COUNTERMEASURE</th>
<th>ITEM DESCRIPTION</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT OF MEASURE</th>
<th>UNIT PRICE</th>
<th>ITEM TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TRAFFIC SIGNAL (HAWK)</strong></td>
<td>Install Type 332 cabinet with 2070 controller complete</td>
<td>1</td>
<td>EA</td>
<td>$25,000</td>
<td>$25,000</td>
</tr>
<tr>
<td></td>
<td>Install Type III-BF service pedestal complete</td>
<td>1</td>
<td>EA</td>
<td>$10,000</td>
<td>$10,000</td>
</tr>
<tr>
<td></td>
<td>Install Type 19 standard and foundation complete</td>
<td>1</td>
<td>EA</td>
<td>$12,000</td>
<td>$12,000</td>
</tr>
<tr>
<td></td>
<td>Install Type 24 standard and foundation complete</td>
<td>1</td>
<td>EA</td>
<td>$17,000</td>
<td>$17,000</td>
</tr>
<tr>
<td></td>
<td>Install 30’ mast arm complete</td>
<td>1</td>
<td>EA</td>
<td>$3,600</td>
<td>$3,600</td>
</tr>
<tr>
<td></td>
<td>Install 35’ mast arm complete</td>
<td>1</td>
<td>EA</td>
<td>$4,200</td>
<td>$4,200</td>
</tr>
<tr>
<td></td>
<td>Install 3-12” LED vehicle head with mounting</td>
<td>4</td>
<td>EA</td>
<td>$1,200</td>
<td>$4,800</td>
</tr>
<tr>
<td></td>
<td>Install Type B pedestrian push button</td>
<td>2</td>
<td>EA</td>
<td>$750</td>
<td>$1,500</td>
</tr>
<tr>
<td></td>
<td>Install LED countdown pedestrian head with mounting</td>
<td>2</td>
<td>EA</td>
<td>$1,600</td>
<td>$3,200</td>
</tr>
<tr>
<td></td>
<td>Install sign on mast arm</td>
<td>2</td>
<td>EA</td>
<td>$800</td>
<td>$1,600</td>
</tr>
<tr>
<td></td>
<td>Install sign on pole</td>
<td>4</td>
<td>EA</td>
<td>$250</td>
<td>$1,000</td>
</tr>
<tr>
<td><strong>SIGNING AND STRIPING</strong></td>
<td>Relocate bus sign</td>
<td>1</td>
<td>EA</td>
<td>$250</td>
<td>$250</td>
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<tr>
<td><strong>OTHER</strong></td>
<td>Remove striping</td>
<td>310</td>
<td>LF</td>
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<td>$310</td>
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<tr>
<td></td>
<td>Install striping</td>
<td>172</td>
<td>LF</td>
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<td>$516</td>
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<tr>
<td></td>
<td>Install white continental crosswalk</td>
<td>980</td>
<td>SF</td>
<td>$4.00</td>
<td>$3,920</td>
</tr>
<tr>
<td><strong>CIVIL</strong></td>
<td>Install curb ramp</td>
<td>2</td>
<td>EA</td>
<td>$6,500</td>
<td>$13,000</td>
</tr>
<tr>
<td><strong>CIVIL</strong></td>
<td>Demo/unclassified excavation</td>
<td>10</td>
<td>CY</td>
<td>$350</td>
<td>$3,500</td>
</tr>
<tr>
<td></td>
<td>Native fill</td>
<td>52</td>
<td>CY</td>
<td>$60</td>
<td>$3,120</td>
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<tr>
<td></td>
<td>Install curb only</td>
<td>130</td>
<td>LF</td>
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<tr>
<td></td>
<td>Install sidewalk</td>
<td>175</td>
<td>SF</td>
<td>$15</td>
<td>$2,625</td>
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<tr>
<td><strong>OTHER</strong></td>
<td>Install tubular hand railing</td>
<td>12</td>
<td>LF</td>
<td>$225</td>
<td>$2,700</td>
</tr>
<tr>
<td><strong>SIGNING AND STRIPING</strong></td>
<td>Install sign panel and post</td>
<td>4</td>
<td>EA</td>
<td>$550</td>
<td>$2,200</td>
</tr>
</tbody>
</table>

**COUNTERMEASURE SUBTOTAL**

**OTHER SUBTOTAL**

**TOTAL FOR BASE BID ITEMS** $122,541

**MOBILIZATION & DEMOBILIZATION** $12,254

**TRAFFIC CONTROL, PUBLIC CONVENIENCE AND SAFETY** $6,000

**CONSTRUCTION SURVEY AND MONUMENTATION** $5,000

**FINAL DESIGN** $40,000

**CONSTRUCTION MANAGEMENT AND INSPECTION** $28,200

**PROJECT MANAGEMENT** $12,254

**STORM WATER BEST MANAGEMENT PRACTICES (BMPs)** $1,000

**30% CONTINGENCY** $68,175

**18% INFLATION (3% PER YEAR @ 6 YEARS)** $57,328

**GRAND TOTAL** $352,752
# Preliminary Engineer’s Cost Estimate

**City of San Bernardino**  
**9th Street Between Waterman Avenue and Del Rosa Avenue**

<table>
<thead>
<tr>
<th>Countermeasure</th>
<th>Item Description</th>
<th>Estimated Quantity</th>
<th>Unit of Measure</th>
<th>Unit Price</th>
<th>Item Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Traffic Signal (Hawk)</strong></td>
<td>Install Type 332 cabinet with 2070 controller complete</td>
<td>1 EA</td>
<td>EA</td>
<td>$25,000</td>
<td>$25,000</td>
</tr>
<tr>
<td></td>
<td>Install Type III-BF service pedestal complete</td>
<td>1 EA</td>
<td>EA</td>
<td>$10,000</td>
<td>$10,000</td>
</tr>
<tr>
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<td>Install Type 1-A standard and foundation complete</td>
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<td>EA</td>
<td>$3,650</td>
<td>$3,650</td>
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<tr>
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<td>Install Type 19 standard and foundation complete</td>
<td>2 EA</td>
<td>EA</td>
<td>$12,000</td>
<td>$24,000</td>
</tr>
<tr>
<td></td>
<td>Install 25’ mast arm complete</td>
<td>2 EA</td>
<td>EA</td>
<td>$3,300</td>
<td>$6,600</td>
</tr>
<tr>
<td></td>
<td>Install 3-12” LED vehicle head with mounting</td>
<td>2 EA</td>
<td>EA</td>
<td>$1,200</td>
<td>$2,400</td>
</tr>
<tr>
<td></td>
<td>Install Type B pedestrian push button</td>
<td>2 EA</td>
<td>EA</td>
<td>$750</td>
<td>$1,500</td>
</tr>
<tr>
<td></td>
<td>Install LED countdown pedestrian head with mounting</td>
<td>2 EA</td>
<td>EA</td>
<td>$1,600</td>
<td>$3,200</td>
</tr>
<tr>
<td></td>
<td>Install sign on mast arm</td>
<td>2 EA</td>
<td>EA</td>
<td>$800</td>
<td>$1,600</td>
</tr>
<tr>
<td></td>
<td>Install sign on pole</td>
<td>4 EA</td>
<td>EA</td>
<td>$250</td>
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<td>LF</td>
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<td>Install yellow continental crosswalk</td>
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<td>SF</td>
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<td>$1,160</td>
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<tr>
<td><strong>Civil</strong></td>
<td>Install curb ramp</td>
<td>2 EA</td>
<td>EA</td>
<td>$6,500</td>
<td>$13,000</td>
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<tr>
<td><strong>Total for Other</strong></td>
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<tr>
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<td>Demo/unclassified excavation</td>
<td>9 CY</td>
<td>CY</td>
<td>$350</td>
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<td>Native fill</td>
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<td>CY</td>
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<td>$360</td>
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<td>Install curb only</td>
<td>120 LF</td>
<td>LF</td>
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<td>$6,000</td>
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<td>Install sidewalk</td>
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<tr>
<td><strong>Civil</strong></td>
<td>Install tubular hand railing</td>
<td>12 LF</td>
<td>LF</td>
<td>$225</td>
<td>$2,700</td>
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<tr>
<td><strong>Other</strong></td>
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<td>$2,700</td>
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<tr>
<td><strong>Total for Sign and Striping</strong></td>
<td>Install sign panel and post</td>
<td>1 EA</td>
<td>EA</td>
<td>$550</td>
<td>$1,100</td>
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<tr>
<td><strong>Total for Other</strong></td>
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<td>$1,100</td>
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<tr>
<td><strong>Sign and Striping</strong></td>
<td>Remove pavement marking</td>
<td>21 EA</td>
<td>EA</td>
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<td>37,240 LF</td>
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<td>Install green conflict zone striping</td>
<td>2,770 LF</td>
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<td>Install sign panel and post</td>
<td>11 EA</td>
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<td>$6,050</td>
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<td><strong>Countermeasure Subtotal</strong></td>
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<td>$212,545</td>
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</tbody>
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**Total for Base Bid Items**  
**Mobilization & Demobilization**  
**Traffic Control, Public Convenience and Safety**  
**Construction Survey and Monumentation**  
**Final Design**  
**Construction Management and Inspection**  
**Project Management**  
**Storm Water Best Management Practices (BMPs)**  
**30% Contingency**  
**18% Inflation (3% per year @ 6 years)**  
**Grand Total**

The total for base bid items is $310,010. The total for mobilization and demobilization is $31,001. The total for traffic control, public convenience, and safety is $12,000. The total for construction survey and monumentation is $5,000. The total for final design is $55,000. The total for construction management and inspection is $28,200. The total for project management is $31,001. The total for storm water best management practices (BMPs) is $120,000. The total for 30% contingency is $177,664. The total for 18% inflation is $149,396. The grand total is $919,272.