

COMPARISON OF OPTIONS

Comprehensive Concept Design Plan - El Dorado

| | |
|--|---------------------|
| Mass to Delaware - Construction Estimate | \$ 3,570,000 |
| Engineering @ 8% | 290,000 |
| TOTAL | \$ 3,860,000 |

Comprehensive Concept Design - New Hampshire to Pennsylvania

(Less: Massachusetts to New Hampshire & Pennsylvania to Delaware)

| | |
|-----------------------|--------------|
| Construction Estimate | \$ 3,075,000 |
| Engineering @ 8% | 250,000 |
| Sub Total | \$ 3,325,000 |

| | | |
|-------------------------------------|--------------|---------------------|
| Less: Westar | \$ (250,000) | |
| Trenching | (80,000) | |
| Street Furniture | (61,000) | |
| Neighborhood Landscapping Initiator | (75,000) | |
| Sub Total | \$ (466,000) | \$ 2,610,000 |
| Engineering @ 8% | | 210,000 |
| TOTAL | | \$ 2,820,000 |

The East Ninth Cost Estimate with the original seven (7) block estimate that has been revised to estimate the art place project with 5 blocks (minus Mass. to N.H. & Penn. to Del.)

The revised 5 block estimate is \$3,075,000. Subtracting items that were not included in the city 5 block estimate (Westar, trenching, street furniture and Landscaping initiator) the estimate is \$2,610,000. The total with engineering (8%) is \$2,820,000 to be compared to the city's basic design with engineering (8%) at \$2,320,000.

The detailed cost break down produced by Bartlett and West Engineers is provided on the following page. It should be noted that the two different design estimates were calculated independently and unit costs between estimates are variable. This represents the most direct cost comparison to the city staff's estimated cost.



SERVICE. THE BARTLETT & WEST WAY.

BID DATE:
CITY PROJECT NO.:

Date: **March 30, 2016**
Project: **East 9th Street Corridor**

| 9TH STREET CORRIDOR | | | | | | | |
|---------------------|--|----------|---------------------------------------|------|--------------|----------------|----------------------------------|
| ITEM | DESCRIPTION | QUANTITY | REVISED QUANTITY (Deduct 2 blocks) | UNIT | UNIT PRICE | AMOUNT | REVISED AMOUNT (Deduct 2 blocks) |
| 1 | DEMOLITION AND REMOVAL | 1 | 1 | LSUM | \$50,000.00 | \$50,000.00 | \$50,000.00 |
| 2 | CLEARING & GRUBBING | 1 | 1 | LSUM | \$50,000.00 | \$50,000.00 | \$50,000.00 |
| 3 | PAVEMENT REMOVAL | 11,069 | 9,110 | SOYD | \$10.00 | \$110,694.11 | \$91,104.92 |
| 4 | LIMESTONE CURB REMOVAL & STOCKPILE | 452 | 452 | LNFT | \$7.00 | \$3,165.40 | \$3,165.40 |
| 5 | BRICK SIDEWALK REMOVAL & STOCKPILE | 171 | 106 | SOYD | \$7.00 | \$1,195.58 | \$742.82 |
| 6 | UNCLASSIFIED EXCAVATION | 2,000 | 2,000 | CUYD | \$25.00 | \$50,000.00 | \$50,000.00 |
| 7 | EMBANKMENT | 1,000 | 1,000 | CUYD | \$35.00 | \$35,000.00 | \$35,000.00 |
| 8 | STRAIGHT CURB (TYPE C-1) | 8,520 | 6,853 | LNFT | \$27.00 | \$230,031.90 | \$185,039.10 |
| 9 | BRICK SIDEWALK REMOVE & RESET | 59 | 28 | SOYD | \$40.00 | \$2,346.18 | \$1,107.79 |
| 10 | SIDEWALK REPAIR | 185 | 185 | SOYD | \$40.00 | \$7,403.96 | \$7,403.96 |
| 11 | SIDEWALK RAMP (6") | 234 | 182 | SOYD | \$210.00 | \$49,140.00 | \$38,220.00 |
| 12 | CONCRETE SIDEWALK (4") | 2,040 | 1,193 | SOYD | \$55.00 | \$112,217.72 | \$65,588.72 |
| 13 | 6" AGGREGATE BASE (AB-3) | 7,502 | 6,520 | SOYD | \$14.00 | \$105,027.07 | \$91,278.40 |
| 14 | 6" CONCRETE PAVEMENT | 2,124 | 1,886 | SOYD | \$55.00 | \$116,806.56 | \$103,751.76 |
| 15 | 6" CONCRETE PAVEMENT COLOR/STAMPED | 728 | 470 | SOYD | \$120.00 | \$87,401.33 | \$56,416.40 |
| 16 | 8" CONCRETE PAVEMENT | 1,087 | 867 | SOYD | \$60.00 | \$65,211.33 | \$52,016.93 |
| 17 | 8" CONCRETE PAVEMENT COLOR/STAMPED | 216 | 174 | SOYD | \$128.00 | \$27,690.67 | \$22,288.21 |
| 18 | 10" CONCRETE PAVEMENT | 5,095 | 4,443 | SOYD | \$65.00 | \$331,175.00 | \$288,795.00 |
| 19 | 10" CONCRETE PAVEMENT COLOR/STAMPED | 745 | 386 | SOYD | \$135.00 | \$100,544.70 | \$52,096.35 |
| 20 | PERMEABLE PAVERS | 1,126 | 787 | SOYD | \$160.00 | \$180,135.11 | \$125,912.36 |
| 21 | 4"CRUSHED GRANITE SURFACE | 234 | 234 | SOYD | \$20.00 | \$4,680.67 | \$4,680.67 |
| 22 | RETAINING WALL | 1,500 | 1,205 | SOFT | \$150.00 | \$225,000.00 | \$180,750.00 |
| 23 | CURB INLETS | 10 | 5 | EACH | \$3,000.00 | \$30,000.00 | \$15,000.00 |
| 24 | DOMED INLET OVERFLOW | 16 | 12 | EACH | \$2,000.00 | \$32,000.00 | \$24,000.00 |
| 25 | STORM SEWER PIPE | 230 | 137 | LNFT | \$80.00 | \$18,400.00 | \$10,984.00 |
| 26 | STONE INFILTRATION PAVERS | 478 | 355 | SOYD | \$55.00 | \$26,277.78 | \$19,522.43 |
| 27 | STONE INFILTRATION SUBGRADE AGGREGATE | 637 | 473 | CUYD | \$50.00 | \$31,851.85 | \$23,663.56 |
| 28 | ADJUST SANITARY MANHOLE TOP | 4 | 3 | EACH | \$500.00 | \$2,000.00 | \$1,500.00 |
| 29 | EROSION CONTROL | 1 | 1 | LSUM | \$50,000.00 | \$50,000.00 | \$50,000.00 |
| 30 | LANDSCAPING | 1 | 1 | LSUM | \$150,000.00 | \$150,000.00 | \$150,000.00 |
| 31 | NEIGHBORHOOD LANDSCAPING INITIATOR | 1 | 1 | LSUM | \$75,000.00 | \$75,000.00 | \$75,000.00 |
| 32 | TEMPORARY TRAFFIC CONTROL | 1 | 1 | LSUM | \$65,000.00 | \$65,000.00 | \$65,000.00 |
| 33 | LIGHTING SYSTEM | 1 | 1 | LSUM | \$300,000.00 | \$300,000.00 | \$300,000.00 |
| 34 | INTEGRATED STREET FURNITURE (SEATING WALLS) | 408 | 408 | SOYD | \$150.00 | \$61,200.00 | \$61,200.00 |
| 35 | PAVEMENT MARKING & SIGNING | 1 | 1 | LSUM | \$100,000.00 | \$100,000.00 | \$100,000.00 |
| 36 | FIBER OPTIC CONDUIT | 2,250 | 1,160 | LNFT | \$12.00 | \$27,000.00 | \$13,921.56 |
| 37 | WESTAR ENERGY RELOCATION OF POWER UNDER GROUND | 1 | 1 | LSUM | \$250,000.00 | \$250,000.00 | \$250,000.00 |
| 38 | UNDER GROUND POWER TRENCHING | 1 | 1 | LSUM | \$80,000.00 | \$80,000.00 | \$80,000.00 |
| SUBTOTAL | | | | | | \$3,243,596.91 | \$2,795,150.33 |
| 10% CONTINGENCY | | | | | | \$324,359.69 | \$279,515.03 |
| HARD COST TOTAL | | | | | | \$3,567,956.61 | \$3,074,665.37 |

| Deduct 2 blocks | | | | | |
|-----------------|-------|---------|-------|--------------|-------|
| Penn-Del | units | Mass-NH | units | Deduct Total | Units |
| | | | | | |
| | | | | | |
| 9083 | SF | 8547 | SF | 1959 | SY |
| | | | | | |
| 68 | SF | 514 | SF | 65 | SY |
| | | | | | |
| | | | | | |
| 1043 | LF | 624 | LF | 1666 | LF |
| 279 | SF | | | 31 | SY |
| | | | | | |
| 288 | SF | 180 | SF | 52 | SY |
| 2847 | SF | 4783 | SF | 848 | SY |
| 4123 | SF | 4715 | SF | 982 | SY |
| 1215 | SF | 921 | SF | 237 | SY |
| 1374 | SF | 950 | SF | 258 | SY |
| 257 | SF | 1722 | SF | 220 | SY |
| 207 | SF | 173 | SF | 42 | SY |
| 3545 | SF | 2330 | SF | 653 | SY |
| 1703 | SF | 1527 | SF | 359 | SY |
| 1520 | SF | 1530 | SF | 339 | SY |
| | | | | | |
| 295 | SF | | | 295 | SF |
| 1 | EA | 4 | EA | 5 | EA |
| 2 | EA | 2 | EA | 4 | EA |
| 22 | LF | 71 | LF | 93 | LF |
| 859 | SF | 247 | SF | 123 | SY |
| 127 | CUYD | 37 | CUYD | 164 | CY |
| 1 | EA | | | 1 | EA |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 420 | LF | 670 | LF | 1090 | LF |
| | | | | | |
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