

**PIN: 16097 PROJECT # S-R499(317) PROJECT NAME: West Parking Structure
Cost Estimate - Concept Level**

Prepared By: JAH/KSR

Date: 2/9/2018

Proposed Project Scope: Construction of a four story parking structure on the current city parking lot that will have around 325 stalls

| | | | |
|--|-------|---------------------|----|
| Approximate Route Reference Mile Post (BEGIN) = | NA | (END) = | NA |
| Project Length = | 0.000 | miles | ft |
| Current FY Year (July-June) = | 2018 | | |
| Assumed Construction FY Year = | 2019 | | |
| Construction Items Inflation Factor = | 1.06 | 1 yrs for inflation | |
| Assumed Yearly Inflation for Engineering Services (PE and CE) (%/yr) = | 3.0% | | |
| Assumed Yearly Inflation for Right of Way (%/yr) = | 3.0% | | |
| Items not Estimated (% of Construction) = | 3.0% | | |
| Preliminary Engineering (% of Construction + Incentives) = | 7.0% | | |
| Construction Engineering (% of Construction + Incentives) = | 6.5% | | |

| Construction Items | Cost | Remarks |
|-----------------------------|------------------------------|--------------------|
| Public Information Services | \$15,000 | |
| Roadway and Drainage | \$959,560 | |
| Traffic and Safety | \$3,300 | |
| Structures | \$3,910,000 | |
| Environmental Mitigation | \$20,000 | |
| ITS | \$0 | |
| | Subtotal | \$4,907,860 |
| | Items not Estimated (3%) | \$147,236 |
| | Construction Subtotal | \$5,055,096 |
| P.E. Cost | P.E. Subtotal | \$353,857 7% |
| C.E. Cost | C.E. Subtotal | \$328,581 7% |
| Right of Way | Right of Way Subtotal | \$105,000 |
| Utilities | Utilities Subtotal | \$536,000 |
| Incentives | Incentives Subtotal | \$0 |
| Miscellaneous | Miscellaneous Subtotal | \$0 |

| Cost Estimate (ePM screen 505) | 2018 | 2019 |
|--------------------------------|--------------------|--------------------|
| P.E. | \$354,000 | \$365,000 |
| Right of Way | \$105,000 | \$108,000 |
| Utilities | \$536,000 | \$565,000 |
| Construction | \$5,055,000 | \$5,333,000 |
| C.E. | \$329,000 | \$339,000 |
| Incentives | \$0 | \$0 |
| Aesthetics | 7.00% \$354,000 | \$373,000 |
| Change Order Contingency | 9.00% \$487,000 | \$514,000 |
| UDOT Oversight | 1.00% \$63,000 | \$66,000 |
| Miscellaneous | \$0 | \$0 |
| TOTAL | \$7,283,000 | \$7,663,000 |

| | | |
|------------------------------------|--------------------------|--------------------------|
| PROPOSED COMMISSION REQUEST | TOTAL \$7,283,000 | TOTAL \$7,663,000 |
|------------------------------------|--------------------------|--------------------------|

Project Assumptions/Risks

| | |
|--|----|
| 1 Assumed excavation of 15' needed for structure due to one level below ground. | 8 |
| 2 Assumed no major utility conflicts | 9 |
| 3 Assumed no Traffic Control needed | 10 |
| 4 Drainage and utility connections included in structure cost | 11 |
| 5 Operation and maintenance costs are not included but are estimated at \$125,000 per year | 12 |
| 6 If paid parking is desired it will be an estimated initial investment of \$10,000 | 13 |
| 7 Assumed a 100 Kw Solar panel system | 14 |

Roadway and Drainage

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| Item # | Item | Quantity | Units | Price | Cost | Remarks |
|--------------------------|----------------------------------|----------|-------------|--------------|------------------|---------------|
| Roadway | | | | | | |
| 015017010 | Mobilization | 1 | lump | \$100,000.00 | \$100,000.00 | |
| 022217120 | Remove Concrete Curb | 700 | foot | \$4.00 | \$2,800.00 | |
| 02316702* | Structural Excavation | 16,500 | cubic yard | \$35.00 | \$577,500.00 | |
| 022217165 | Remove Asphalt Pavement | 3,000 | square yard | \$5.00 | \$15,000.00 | |
| 027767055 | Concrete Driveway | 1 | lump | \$2,500.00 | \$2,500.00 | |
| 027417050 | HMA - 1/2 Inch | 608 | ton | \$100.00 | \$60,800.00 | |
| 027217010 | Untreated Base Course | 736 | ton | \$30.00 | \$22,080.00 | |
| 027767025 | Concrete Curb and Gutter Type B1 | 800 | foot | \$25.00 | \$20,000.00 | |
| 023167020 | Excavation | 296 | cubic yard | \$30.00 | \$8,880.00 | |
| | Building Demo | 1 | lump | \$150,000.00 | \$150,000.00 | |
| Roadway Subtotal | | | | | \$959,560 | |
| Drainage | | | | | | |
| | | | | | | Not Estimated |
| Drainage Subtotal | | | | | \$0 | |
| PI | | | | | | |
| 015407010 | Public Information Services | 1 | lump | \$15,000.00 | \$15,000 | |

Traffic, Safety & ITS

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| Item # | Item | Quantity | Units | Price | Cost | Remarks |
|------------------------------------|----------------|----------|-------|----------|----------------|------------------------------|
| Traffic | | | | | | |
| 02891707* | Sign Type A-2 | 3 | each | \$500.00 | \$1,500.00 | Size and Type to be Designed |
| 02891735* | Sign Post | 3 | each | \$200.00 | \$600.00 | Size and Type to be Designed |
| 02891730* | Sign Post Base | 3 | each | \$400.00 | \$1,200.00 | Size and Type to be Designed |
| Traffic and Safety Subtotal | | | | | \$3,300 | |

Structures

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| Item # | Item | Quantity | Units | Price | Cost | Remarks |
|----------------------------|----------------|----------|-------|----------------|--------------------|----------------------------|
| Structures | | | | | | |
| | Parking Garage | 1 | Lump | \$3,900,000.00 | \$3,900,000.00 | \$12000/stall - 325 stalls |
| | Geotech Report | 1 | Lump | \$10,000.00 | \$10,000.00 | |
| | | | | | | |
| | | | | | | |
| Structures Subtotal | | | | | \$3,910,000 | |

Environmental and Landscaping

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| Item # | Item | Quantity | Units | Price | Cost | Remarks |
|--|---------------------|----------|-------|-------------|-----------------|---------------|
| Environmental | | | | | | |
| | | | | | | Not Estimated |
| Temporary Erosion Control | | | | | | |
| | | | | | | Not Estimated |
| Landscaping | | | | | | |
| 02922706* | General Landscaping | 1 | lump | \$20,000.00 | \$20,000.00 | |
| Environmental Mitigation Subtotal | | | | | \$20,000 | |

Utilities, Right of Way, and Incentives

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| Item # | Item | Quantity | Units | Price | Cost | Remarks |
|------------------------------|----------------------------------|----------|-------|--------------|------------------|---------------|
| Utilities | | | | | | |
| | Solar Panels | 1 | Lump | \$350,000.00 | \$350,000.00 | |
| | Shade Structure for solar panels | 1 | Lump | \$150,000.00 | \$150,000.00 | |
| | Charging Stations | 6 | Lump | \$6,000.00 | \$36,000.00 | |
| Utilities Subtotal | | | | | \$536,000 | |
| Right-of-way | | | | | | |
| | Urban/Suburban Commercial | 7,000 | sq ft | \$15.00 | \$105,000.00 | |
| Right-of-Way Subtotal | | | | | \$105,000 | |
| Incentives | | | | | | |
| | | | | | | Not Estimated |
| Incentives Subtotal | | | | | \$0 | |