

**Gilboa Dam: East and West Overlook, Wall Cladding Repairs
Estimate**

| Description | Qty | Unit | Unit Cost Material and Equipment | Unit Cost Labor | Total Unit Price | Total Item Cost |
|---|--------|------|---|--------------------|---------------------|--------------------|
| GENERAL CONDITIONS | | | | | | |
| 10% of all associate costs of the project | 1 | LS | N/A | N/A | \$ 255,000.00 | \$ 255,000 |
| Not included: Temporary site utilities, trailer(s) or storage facilities, preparation of temporary work areas for stone fabrication and staging, toilets, perimeter fencing, security, surveying, scaffolding or lifts to access areas above 8 feet above grade. | 1 | LS | N/A | N/A | \$ - | \$ - |
| Not Included: General Contractors costs / O&P or CM costs. | 1 | LS | N/A | N/A | \$ - | \$ - |
| Temporary pole building with tarp roof and sides for stone working | 1 | EA | \$ 7,500.00 | \$ 6,400.00 | \$ 13,900.00 | \$ 13,900 |
| DEMOLITIONS / REMOVALS / EXCAVATION / GRADING / SITEWORK / REMOVALS | | | | | | |
| Not included: Demolitions, removals, excavation, fill, backfill, tamping, grading, sitework, removals, road paving, curbs, parking lines and text, parking signs unless otherwise | 1 | LS | \$ - | \$ - | \$ - | \$ - |
| CONCRETE | | | | | | |
| Not Included: Footings, Pylons, Retaining Walls, and Core of Interpretive Center Wall | 1 | LS | \$ - | \$ - | \$ - | \$ - |
| Sidewalk Paving | 3,120 | SF | \$ 1.38 | \$ 2.46 | \$ 3.84 | \$ 11,981 |
| Sidewalk Paving, Tinting, Premium Custom | 5,200 | LB | \$ 3.52 | \$ - | \$ 3.52 | \$ 18,304 |
| Curb at East Training Wall | 19 | CY | \$ 91.80 | \$ 77.72 | \$ 169.52 | \$ 3,202 |
| Curb, Tinting, Premium Custom | 3,400 | LB | \$ 3.20 | \$ - | \$ 3.20 | \$ 10,880 |
| paving | 116 | SY | \$ 11.13 | \$ 1.76 | \$ 12.89 | \$ 1,490 |
| MASONRY AND STONE | | | | | | |
| Rake and point joints (other than overlooks) | 61,615 | SF | \$ 1.00 | \$ 9.38 | \$ 10.38 | \$ 639,256 |
| Mortaring Repair Compounds (Materials, mixing, delivery to working face) | 235 | CF | \$ 40.00 | \$ 7.50 | \$ 47.50 | \$ 11,178 |
| Salvage Stone: Existing stone accumulated at site or debries created from removals from work being performed at site. Includes labor only, trucks and lifts assumed provided from other projects at site (Assumed 1 CF per SF of face stone required or CF of stone required plus 20% for wastage). | 596 | CF | \$ - | \$ 240.00 | \$ 240.00 | \$ 142,923 |
| Cleaning Salvaged Stone | 596 | CF | \$ 1.00 | \$ 0.94 | \$ 1.94 | \$ 1,154 |

| | | | | | | |
|--|-------|----|-------------|-----------|-------------|--------------|
| Sawcut joints at areas of tie backs | 2,820 | LF | \$ 0.90 | \$ 7.28 | \$ 8.18 | \$ 23,068 |
| Sawcut joints at areas of tie backs Min Setup Per Location and Allowance for short irregular cuts, working on scaffolding and other site | 47 | EA | \$ - | \$ 300.00 | \$ 300.00 | \$ 14,100 |
| Demolish with hand power tools, stone blocks to facilitate removal of adjacent blocks. | 141 | CF | \$ 2.00 | \$ 45.00 | \$ 47.00 | \$ 6,627 |
| Cut and remove min. 4 inch thick stone facing from in situ blocks | 1,175 | SF | \$ 2.00 | \$ 45.00 | \$ 47.00 | \$ 55,225 |
| Face Stone 4 inch thick at tie back caps | 1,175 | SF | \$ 14.01 | \$ 26.62 | \$ 40.63 | \$ 47,745 |
| Mortaring Repair Compounds (Materials, mixing, delivery to working face) | 212 | CF | \$ 40.00 | \$ 7.50 | \$ 47.50 | \$ 10,072 |
| Stone pins and anchors | 588 | EA | \$ 8.50 | \$ 7.50 | \$ 16.00 | \$ 9,400 |
| Face Stone 4 inch thick at existing wall areas (other than overlooks) | 9,940 | SF | \$ 14.01 | \$ 26.62 | \$ 40.63 | \$ 403,902 |
| Mortaring Repair Compounds (Materials, mixing, delivery to working face) | 1,794 | CF | \$ 40.00 | \$ 7.50 | \$ 47.50 | \$ 85,208 |
| Stone pins and anchors | 4,970 | EA | \$ 8.50 | \$ 7.50 | \$ 16.00 | \$ 79,520 |
| Overlooks | | | | | | |
| Coping Stone, 8 inch thick, 1'2" wide | 470 | LF | \$ 208.62 | \$ 103.60 | \$ 312.22 | \$ 146,745 |
| Face Stone 4 inch thick | 700 | SF | \$ 14.01 | \$ 26.62 | \$ 40.63 | \$ 28,444 |
| Face Stone 18 inch thick | 1,050 | SF | \$ 51.53 | \$ 66.84 | \$ 118.37 | \$ 124,289 |
| Stone blocks approximately 18 inches square, sizes to vary from plus or minus 50% | 64 | CF | \$ 45.86 | \$ 59.48 | \$ 105.34 | \$ 6,742 |
| Mortaring Repair Compounds (Materials, mixing, delivery to working face) | 541 | CF | \$ 40.00 | \$ 15.00 | \$ 55.00 | \$ 29,741 |
| Stone pins and anchors | 1,150 | EA | \$ 8.50 | \$ 7.50 | \$ 16.00 | \$ 18,400 |
| CMU app. 8 x 16 x 14 wide | 2,025 | SF | \$ 9.53 | \$ 8.48 | \$ 18.01 | \$ 36,470 |
| CMU Face Brick app. 8 x 16 | 1,040 | SF | \$ 0.68 | \$ 3.84 | \$ 4.52 | \$ 4,701 |
| Rebar each core | 2,047 | LB | \$ 0.80 | \$ 2.44 | \$ 3.24 | \$ 6,632 |
| Grout solid all CMU masonry, insert continuous #4 rebar in each cell. | 56 | CY | \$ 91.80 | \$ 77.72 | \$ 169.52 | \$ 9,493 |
| Crushed Bluestone | 256 | SF | \$ 1.10 | \$ 2.81 | \$ 3.91 | \$ 1,000 |
| Landscape fabric under crushed bluestone | 768 | SF | \$ 1.00 | \$ 1.00 | \$ 2.00 | \$ 1,536 |
| SS Cap along wall at lifting points | 65 | LF | \$ 7.50 | \$ 10.00 | \$ 17.50 | \$ 1,138 |
| SS Cap at Interperative Center Wall | 32 | LF | \$ 6.50 | \$ 10.00 | \$ 16.50 | \$ 528 |
| Base Flashing in wall app. 12 inch wide | 140 | LF | \$ 10.00 | \$ 10.00 | \$ 20.00 | \$ 2,800 |
| Salvage, remove, restore, and reset historic plaques, app. 3' x 2' | 4 | EA | \$ 300.00 | \$ 900.00 | \$ 1,200.00 | \$ 4,800 |
| Eye bolts at lifting points | 24 | EA | \$ 25.00 | \$ 12.50 | \$ 37.50 | \$ 900 |
| Trash Receptacle | 1 | EA | \$ 1,250.00 | \$ 360.00 | \$ 1,610.00 | \$ 1,610 |
| SS Lettering app 18" high set on pins | 9 | EA | \$ 95.00 | \$ 75.00 | \$ 170.00 | \$ 1,530 |
| Caulking at SS caps | 194 | LF | \$ 1.00 | \$ 1.00 | \$ 2.00 | \$ 388 |
| Total Architecturals | | | | | | \$ 2,272,019 |

| METALS | | | | | | |
|---|------------------------------|----|-------------|-----------|-------------|--------------|
| Not Included: Footings, Pylons, Retaining Walls, or Crane for unloading or placement of steel structure and fabrications. | NA | NA | NA | NA | NA | NA |
| 2 inch dia SS pipe | 545 | LF | \$ 30.34 | \$ 15.84 | \$ 46.18 | \$ 25,166 |
| Perforated metal panels, SS | 1,546 | LF | \$ 46.00 | \$ 26.12 | \$ 72.12 | \$ 111,461 |
| Bar Stock, 2 1/2" by 1/2", SS | 954 | LF | \$ 20.25 | \$ 21.02 | \$ 41.27 | \$ 39,361 |
| Bar Stock, 1 1/2" by 1/4" SS | 477 | LF | \$ 8.80 | \$ 10.51 | \$ 19.31 | \$ 9,208 |
| Tube, 3/4 " Square, SS | 1,948 | LF | \$ 7.54 | \$ 7.01 | \$ 14.55 | \$ 28,342 |
| Tube, 2" x 3", SS | 26 | LF | \$ 51.00 | \$ 9.11 | \$ 60.11 | \$ 1,587 |
| "T" shapes, 2 inch, SS | 40 | LF | \$ 28.66 | \$ 14.01 | \$ 42.67 | \$ 1,690 |
| Metal Grate, SS, very small penetrations, suitable for high heels. | 300 | LF | \$ 142.68 | \$ 8.30 | \$ 150.98 | \$ 45,293 |
| IPE Bench Slats | 24 | LF | \$ 50.00 | \$ 25.00 | \$ 75.00 | \$ 1,800 |
| Interpretative Plaques | 1 | EA | \$ 1,000.00 | \$ 200.00 | \$ 1,200.00 | \$ 1,200 |
| Steel wire railing | 80 | LF | \$ 35.67 | \$ 55.54 | \$ 91.21 | \$ 7,297 |
| | | | | | | |
| | | | | | | |
| Total Metals | | | | | | \$ 185,196 |
| | | | | | | |
| LABOR PRICING | | | | | | |
| | | | No. Of Days | Hrly Rate | Per Day | |
| Project Foreman | 1 | EA | 120 | \$75 | \$600 | \$ 72,000 |
| Stonemason | Included in work items above | | | | | |
| Stone Laborer | Included in work items above | | | | | |
| General Laborer | Included in work items above | | | | | |
| Total Labor Cost | | | | | | \$ 72,000 |
| | | | | | | |
| Total Estimated Cost of Project* | | | | | | \$ 2,529,215 |
| | | | | | | |
| *Cost Estimate does not include labor premiums, overtime, accelerated schedules, utility costs, or housing of workmen. This is meant only as a means to evaluate the base cost of the project. Actual bids from contractors will vary . | | | | | | |