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CITY OF MADISON WARNER PARK COMMUNITY CENTER GYM ADDITION

Madison, WI

Construction Document Estimate

April 10, 2024

Rev 01

Prepared For:

Engberg Anderson Architects
305 W. Washington Ave.
Madison, WI 53703

NOTES REGARDING PREPARATION OF ESTIMATE

This estimate was prepared based on the following documents provided by Engberg Anderson Architects

1. D.D. Drawings provided by Engberg Anderson Architects provided March 29, 2024
2. Design Narrative provided by Engberg Anderson Architects dated March 29, 2024
3. Information regarding the project was also obtained via meetings, phone conversations, and email messages that clarified the project scope.

BIDDING PROCESS - MARKET CONDITIONS

This document is based on the measurement and pricing of quantities wherever information is provided and/or reasonable assumptions for other work not covered in the drawings or specifications, as stated within this document. Unit rates have been generated from current material/labor rates, historical production data, and discussions with relevant subcontractors and material suppliers. The unit rates reflect current bid costs in the area. All unit rates relevant to subcontractor work include the subcontractors overhead and profit unless otherwise stated.

Pricing reflects probable construction costs obtainable in the Madison, Wisconsin area on the bid date. This estimate is a determination of fair market value for the construction of this project. It is not a prediction of low bid. Pricing assumes competitive bidding for every portion of the construction work for all subcontractors with a minimum of 3 bidders for all items of subcontracted work and a with a minimum of 3 bidders for a general contractor. Experience indicates that a fewer number of bidders may result in higher bids, conversely an increased number of bidders may result in more competitive bids.

Since Middleton Consulting has no control over the cost of labor, material, equipment, or over the contractor's method of determining prices, or over the competitive bidding or market conditions at the time of bid, this statement of probable construction cost is based on industry practice, professional experience and qualifications, and represents Middleton Consulting's best judgment as professional construction cost consultants familiar with the construction industry. However, Middleton Consulting cannot and does not guarantee that the proposals, bids, or the construction cost will not vary from opinions of probable cost prepared by them.

ASSUMED CONSTRUCTION PARAMETERS

The pricing is based on the following project parameters:

1. A construction start date of Summer 2024
2. A construction period of 14-16 months
3. The contract will be competitively bid to multiple contractors.
4. All contractors will be required to pay prevailing wages.
5. The contractors will have full access to the site during normal working hours
6. Estimate includes pricing as of February 2024

EXCLUSIONS

The following are excluded from the cost of this estimate:

1. Professional Design Fees
2. Testing Fees
3. Owner Contingencies/Scope Changes
4. Construction Contingency
5. Premium Time / Restrictions on Contractor Working Hours
6. Finance and Legal Charges
7. Environmental Abatement Costs
8. Contaminated Soil Removal
9. Temporary Facilities
10. Loose Furniture
11. Equipment (Owner Furnished/Installed)
12. Artwork

FOR REFERENCE ONLY. ALL QUANTITIES AND UNIT
COSTS ARE THE RESPONSIBILITY OF BIDDERS.



City Of Madison
Warner Park Community Center
Gym Addition
Summary

Construction Document Estimate

04/10/2024

Rev 01

| COST SUMMARY | | 13,100 | GSF | \$/SF | BUILDING TOTAL |
|-------------------------------|---|--------|-----|----------|----------------|
| 01000 | GENERAL REQUIREMENTS | | | \$0.00 | \$0 |
| 02000 | EXISTING CONDITIONS-BUILDING DEMO | | | \$1.87 | \$24,450 |
| 03000 | CONCRETE | | | \$31.73 | \$415,654 |
| 04000 | MASONRY | | | \$49.36 | \$646,648 |
| 05000 | METALS | | | \$28.28 | \$370,432 |
| 06000 | WOODS, PLASTICS & COMPOSITES | | | \$2.03 | \$26,645 |
| 07000 | THERMAL & MOISTURE PROTECTION SYSTEM | | | \$37.34 | \$489,167 |
| 08000 | OPENINGS | | | \$12.85 | \$168,396 |
| 09000 | FINISHES-BUILDOUTS | | | \$27.23 | \$356,762 |
| 10000 | SPECIALTIES | | | \$2.33 | \$30,577 |
| 11000 | EQUIPMENT-GYM | | | \$14.89 | \$195,044 |
| 12000 | FURNISHINGS | | | \$0.00 | \$0 |
| 13000 | SPECIAL CONSTRUCTION | | | \$0.00 | \$0 |
| 14000 | CONVEYING EQUIPMENT | | | \$0.00 | \$0 |
| 21000 | FIRE SUPPRESSION | | | \$5.17 | \$67,733 |
| 22000 | PLUMBING | | | \$12.79 | \$167,589 |
| 23000 | HEATING, VENTILATING & AIR CONDITIONING | | | \$115.00 | \$1,506,490 |
| 26000 | ELECTRICAL | | | \$30.58 | \$400,598 |
| 27000 | COMMUNICATIONS | | | \$1.94 | \$25,444 |
| 28000 | ELECTRONIC SAFETY AND SECURITY | | | \$18.43 | \$241,462 |
| 31000 | EARTHWORK | | | \$6.81 | \$89,263 |
| 32000 | EXTERIOR IMPROVEMENTS | | | \$14.97 | \$196,162 |
| 33000 | UTILITIES | | | \$3.88 | \$50,763 |
| SUBTOTAL | | | | \$417.50 | \$5,469,279 |
| | ESCALATION TO START OF CONSTRUCTION | 1.0% | | \$4.18 | \$54,693 |
| | GENERAL CONDITIONS/BOND/INSURANCE | 8.0% | | \$33.73 | \$441,918 |
| | CONTRACTOR'S FEES | 5.0% | | \$22.77 | \$298,294 |
| | DESIGN CONTINGENCY | 0.0% | | \$0.00 | \$0 |
| TOTAL ESTIMATED BID | | | | \$478.18 | \$6,264,184 |
| | BPW CONTINGENCY | 8.0% | | \$38.25 | \$501,135 |
| TOTAL ESTIMATED BID | | | | \$516.44 | \$6,765,319 |
| ALTERNATE #1 -HVAC | | | | | \$141,646 |
| ALTERNATE #2- SOLAR INVERTORS | | | | | \$31,514 |



CITY OF MADISON
WARNER PARK COMMUNITY CENTER
EXPANSION

REF DOC 4: COST ESTIMATE

CD Estimate
04/10/2024
01

| DESCRIPTION | QTY | UM | UNIT COST | TOTAL COST |
|--|--------|------|-----------|------------------|
| 00 Base Building | | | | |
| 01000 GENERAL REQUIREMENTS | | | | |
| Gross SF of Project-Storage and Locker Room Renovation | 1,000 | SQFT | 0.00 | 0 |
| Gross SF of Project-Storage and Pre-Function | 3,600 | SQFT | 0.00 | 0 |
| Gross SF of Project-Gymnasium Addition | 9,500 | SQFT | 0.00 | 0 |
| SUBTOTAL: GENERAL REQUIREMENTS | | | | \$0 |
| 02100 Selective Demolition | | | | |
| Remove Slat Wall | 40 | SQFT | 1.58 | 63 |
| Remove wall Pads | 312 | SQFT | 0.63 | 197 |
| Remove and Reinsrtall Sat Dish | 1 | EACH | 177.23 | 177 |
| Remove Wire Partition | 120 | SQFT | 3.17 | 380 |
| Remove reinforced SOG & Patch for Storm Tie in | 150 | SQFT | 12.20 | 1,830 |
| Remove masonry partition | 896 | SQFT | 2.44 | 2,189 |
| Remove drywall metal stud partition | 672 | SQFT | 1.59 | 1,067 |
| Remove acoustical ceiling system & Put Back for Mechanical Tie ins | 200 | SQFT | 1.99 | 397 |
| Remove drywall ceiling, suspended | 813 | SQFT | 3.88 | 3,153 |
| Remove Terrazzo | 76 | SQFT | 2.10 | 160 |
| Remove Rubber flooring | 2,041 | SQFT | 1.58 | 3,215 |
| Remove ceramic and quarry tile, thin set | 813 | SQFT | 1.94 | 1,576 |
| Remove toilet Partitions | 3 | EACH | 79.42 | 238 |
| Remove door and frame, single | 10 | EACH | 39.71 | 397 |
| Remove and Patch Opening | 200 | SQFT | 19.75 | 3,951 |
| Miscellaneous Exterior Removals | 1 | EACH | 2,584.60 | 2,585 |
| Remove lockers | 45 | EACH | 39.71 | 1,787 |
| Remove Locker Bench | 14 | LNFT | 15.75 | 221 |
| Remove shelving | 55 | LNFT | 15.75 | 866 |
| SUBTOTAL: Selective Demolition | | | | \$24,450 |
| 03100 Concrete Formwork | | | | |
| Formwork for footings | 1,624 | SQFT | 10.73 | 17,421 |
| Formwork for frost walls | 4,550 | SQFT | 16.83 | 76,587 |
| SUBTOTAL: Concrete Formwork | | | | \$94,008 |
| 03200 Concrete Reinforcement | | | | |
| Reinforcement in footings 100lb/CUYD | 9 | TONS | 2,805.54 | 26,540 |
| Reinforcement frostwalls, avg 135 lbs/cy | 8 | TONS | 3,272.10 | 25,850 |
| SUBTOTAL: Concrete Reinforcement | | | | \$52,390 |
| 03300 Cast in Place Concrete | | | | |
| Concrete in footings | 189 | CUYD | 188.55 | 35,637 |
| Concrete in frost walls, 4,000 psi | 117 | CUYD | 200.74 | 23,487 |
| Concrete slab on grade-Storage Area | 1,270 | SQFT | 6.37 | 8,087 |
| Concrete slab on grade-Gym | 10,892 | SQFT | 7.46 | 81,254 |
| Cut and patch flooring for Plumbing in locker room | 200 | SQFT | 20.02 | 4,005 |
| Vapor Barrier | 12,050 | SQFT | 1.24 | 14,959 |
| SUBTOTAL: Cast in Place Concrete | | | | \$167,429 |
| 03600 Precast Architectural Concrete | | | | |



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| Cast in place panel architectural finish | 1,965 | SQFT | 51.82 | 101,828 |
| SUBTOTAL: Precast Architectural Concrete | | | | \$101,828 |
| 04100 Exterior Masonry | | | | |
| 4" split face CMU-1, exterior | 5,599 | SQFT | 26.27 | 147,108 |
| 4" split face CMU-2, exterior | 1,258 | SQFT | 28.71 | 36,122 |
| 12" CMU backup at Gym and Storage_integral color | 9,001 | SQFT | 31.87 | 286,905 |
| SUBTOTAL: Exterior Masonry | | | | \$470,135 |
| 04300 Interior Masonry | | | | |
| CMU partition-4" | 1,921 | SQFT | 22.06 | 42,386 |
| CMU Infill | 93 | SQFT | 37.46 | 3,483 |
| CMU partition-12" | 2,189 | SQFT | 29.69 | 64,999 |
| CMU partition-6" | 2,780 | SQFT | 23.61 | 65,644 |
| SUBTOTAL: Interior Masonry | | | | \$176,513 |
| 05100 Structural Steel | | | | |
| Structural steel beams, W-Shapes | 1 | TONS | 4,750.19 | 6,793 |
| Structural steel channels | 2 | TONS | 5,351.95 | 9,039 |
| Structural steel angles | 4 | TONS | 5,009.97 | 18,537 |
| Structural steel girder | 5 | TONS | 5,091.87 | 26,732 |
| Structural steel columns, HSS Tubes | 3 | TONS | 4,791.87 | 14,855 |
| Steel joists, series K | 2 | TONS | 3,623.19 | 8,297 |
| Steel joists, series DLH-Long Span | 25 | TONS | 4,145.87 | 101,574 |
| Metal roof deck, galvanized, 1-1/2" thk, 18 ga | 2,663 | SQFT | 3.80 | 10,110 |
| Perforated acoustic roof deck, cellular with flat bottom profile, galvanized, 18 ga | 11,793 | SQFT | 11.14 | 131,317 |
| Light gauge steel joists, 6" deep, 24" OC | 1,260 | LNFT | 15.96 | 20,108 |
| Miscellaneous angles, channels, lintels, etc. | 13,100 | SQFT | 1.76 | 23,069 |
| SUBTOTAL: Structural Steel | | | | \$370,432 |
| 06100 Structural Wood | | | | |
| SUBTOTAL: Structural Wood | | | | \$0 |
| 06200 Rough Carpentry | | | | |
| Miscellaneous wood blocking & rough carpentry | 13,100 | SQFT | 1.02 | 13,333 |
| SUBTOTAL: Rough Carpentry | | | | \$13,333 |
| 06300 Millwork | | | | |
| Display cabinet | 9 | LNFT | 769.63 | 6,927 |
| Plywood Bench at Corridor | 27 | LNFT | 236.50 | 6,385 |
| SUBTOTAL: Millwork | | | | \$13,312 |
| 07100 Dampproofing & Waterproofing | | | | |
| Spray on Air Barrier | 9,001 | SQFT | 3.84 | 34,575 |
| 2" rigid insulation | 9,001 | SQFT | 2.18 | 19,615 |
| SUBTOTAL: Dampproofing & Waterproofing | | | | \$54,190 |
| 07400 Roofing | | | | |
| EPDM roofing including insulation | 10,669 | SQFT | 18.94 | 202,085 |
| Standing seam metal roof | 3,628 | SQFT | 28.88 | 104,766 |
| Metal Fascia | 1,071 | SQFT | 13.36 | 14,314 |
| 10" aluminum gutter | 107 | LNFT | 25.96 | 2,778 |



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|--|-------|------|-----------|------------|
| 6" aluminum gutter | 44 | LNFT | 12.13 | 534 |
| Downspouts | 38 | LNFT | 15.38 | 585 |
| SUBTOTAL: Roofing | | | | \$325,060 |
| 07500 Roofing Specialties | | | | |
| Metal Coping | 21 | SQFT | 11.33 | 238 |
| SUBTOTAL: Roofing Specialties | | | | \$238 |
| 07600 Metal Panel Systems | | | | |
| Metal siding MP-1/2/3-\$22 per sqft material allowance | 2,179 | SQFT | 27.36 | 59,628 |
| Metal Soffit and Framing | 1,630 | SQFT | 30.71 | 50,051 |
| SUBTOTAL: Metal Panel Systems | | | | \$109,679 |
| 08200 Curtainwall & Storefront | | | | |
| Exterior window wall-Curtain | 506 | SQFT | 124.17 | 62,831 |
| Exterior window wall-Storefront | 637 | SQFT | 79.39 | 50,571 |
| SUBTOTAL: Curtainwall & Storefront | | | | \$113,402 |
| 08300 Exterior Doors, Frames, & Hardware | | | | |
| HM Frame B 3'-0" x 7'-8"-Insulated | 1 | EACH | 571.86 | 572 |
| Insulated HM door-3'-0" x 7'-8" | 1 | EACH | 406.68 | 407 |
| Single aluminum glass door | 1 | EACH | 3,288.69 | 3,289 |
| SUBTOTAL: Exterior Doors, Frames, & Hardware | | | | \$4,267 |
| 08400 Interior Doors, Frames, & Hardware | | | | |
| HM Frame A 3'-0" x 7'-0" | 6 | EACH | 406.86 | 2,441 |
| HM Frame A 6'-4" x 7'-8" | 4 | EACH | 511.38 | 2,046 |
| HM Frame A 6'-4" x 7'-8" | 4 | EACH | 406.86 | 1,627 |
| HM Frame B 3'-0" x 7'-0" | 1 | EACH | 576.38 | 576 |
| HM Frame C 3'-6" x 7'-10" | 1 | EACH | 423.76 | 424 |
| HM Frame C 7'-0"x 7'-10" | 3 | EACH | 587.97 | 1,764 |
| SC wood door - A, 3'-0" x 7'-0" | 8 | EACH | 402.15 | 3,217 |
| SC wood door - A, 3'-2" x 7'-8" | 8 | EACH | 484.78 | 3,878 |
| SC wood door -B, 3'-6" x 7'-10" | 7 | EACH | 608.42 | 4,259 |
| Hardware Group 5 | 1 | EACH | 4,125.26 | 4,125 |
| Hardware Group 8 | 1 | EACH | 2,058.72 | 2,059 |
| Hardware Group 7 | 1 | EACH | 3,024.17 | 3,024 |
| Hardware Group 11 | 2 | EACH | 899.36 | 1,799 |
| Hardware Group 6 | 1 | EACH | 3,039.17 | 3,039 |
| Hardware Group 9 | 3 | EACH | 1,296.24 | 3,889 |
| Hardware Group 2 | 1 | EACH | 1,120.45 | 1,120 |
| Hardware Group 10 | 1 | EACH | 1,297.63 | 1,298 |
| Hardware Group 1 | 1 | EACH | 1,562.63 | 1,563 |
| Hardware Group 3 | 4 | EACH | 1,024.36 | 4,097 |
| Hardware Group 4 | 1 | EACH | 4,481.35 | 4,481 |
| SUBTOTAL: Interior Doors, Frames, & Hardware | | | | \$50,727 |
| 09100 Plaster & Gypsum Board | | | | |
| Wall Type C1- Drywall on one side , 3-5/8 metal stud | 722 | SQFT | 8.98 | 6,485 |
| Wall Type H1- Drywall on existing CMU | 247 | SQFT | 6.85 | 1,692 |
| Wall Type A1 | 114 | SQFT | 14.39 | 1,641 |



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| Wall Type B1/B2 | 885 | SQFT | 13.54 | 11,984 |
| SUBTOTAL: Plaster & Gypsum Board | | | | \$21,802 |
| 09200 Floor Finishes | | | | |
| Ceramic tile floor, 12"x12" | 496 | SQFT | 14.68 | 7,283 |
| Ceramic tile base, 6" high | 196 | LNFT | 20.61 | 4,039 |
| Terrazzo flooring | 1,356 | SQFT | 34.17 | 46,329 |
| Urethane Gym floors and Striping | 9,097 | SQFT | 15.47 | 140,762 |
| Rubber sheet flooring, 3/16" thk | 2,178 | SQFT | 17.52 | 38,166 |
| Rubber base, 4" high | 1,205 | LNFT | 2.45 | 2,958 |
| Carpet flooring-CPT1/2/3 | 701 | SQFT | 6.45 | 4,525 |
| SUBTOTAL: Floor Finishes | | | | \$244,062 |
| 09300 Wall Finishes | | | | |
| Ceramic wall tile, 12"x12" | 1,764 | SQFT | 16.49 | 29,086 |
| Metal Panel Behind EWC | 24 | SQFT | 55.37 | 1,329 |
| Metal Panel Covers at Wall-DP-1- | 166 | SQFT | 57.37 | 9,524 |
| SUBTOTAL: Wall Finishes | | | | \$39,939 |
| 09400 Ceiling Finishes | | | | |
| ACT system, ACP-1-Spec? | 485 | SQFT | 14.84 | 7,199 |
| Metal pan ceiling | 40 | SQFT | 37.69 | 1,507 |
| Gypsum ceilings | 824 | SQFT | 14.66 | 12,082 |
| SUBTOTAL: Ceiling Finishes | | | | \$20,789 |
| 09500 Acoustical Treatments | | | | |
| Acoustical wall panels, AP-1 | 60 | SQFT | 46.15 | 2,769 |
| Acoustical wall panels, AP-2 | 112 | SQFT | 46.15 | 5,169 |
| SUBTOTAL: Acoustical Treatments | | | | \$7,938 |
| 09600 Paints & Coatings | | | | |
| Concrete sealer | 1,944 | SQFT | 1.58 | 3,079 |
| Paint plaster/drywall ceiling 3 coats | 842 | SQFT | 1.59 | 1,336 |
| Paint exposed structure | 10,940 | SQFT | 1.63 | 17,817 |
| SUBTOTAL: Paints & Coatings | | | | \$22,232 |
| 10400 Toilet Accessories | | | | |
| Toilet partition, accessible | 2 | EACH | 1,392.18 | 2,784 |
| Toilet partition, standard | 3 | EACH | 1,053.74 | 3,161 |
| Urinal screen | 1 | EACH | 819.63 | 820 |
| Toilet paper dispenser, double roll | 8 | EACH | 107.03 | 856 |
| Napkin vendor, stainless steel | 1 | EACH | 692.18 | 692 |
| Napkin disposal, stainless steel, surface mounted | 7 | EACH | 118.05 | 826 |
| Baby diaper changing station | 1 | EACH | 1,038.82 | 1,039 |
| Coat hook | 1 | EACH | 24.86 | 25 |
| Stainless Shelf | 1 | EACH | 103.62 | 104 |
| Grab bar set, three piece | 4 | EACH | 289.14 | 1,157 |
| Mirrors- Toilet Rooms | 4 | EACH | 366.09 | 1,464 |
| SUBTOTAL: Toilet Accessories | | | | \$12,928 |
| 10500 Fire Protection Specialties | | | | |



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| Fire extinguisher & cabinet, semi-recessed | 4 | EACH | 432.18 | 1,729 |
| Fixed metal storage shelving-Reinstall | 18 | LNFT | 25.80 | 464 |
| SUBTOTAL: Fire Protection Specialties | | | | \$2,193 |
| 10600 Lockers & Benches | | | | |
| Locker, two tier | 8 | EACH | 303.05 | 2,424 |
| Locker bench | 14 | LNFT | 44.60 | 624 |
| SUBTOTAL: Lockers & Benches | | | | \$3,049 |
| 10900 Miscellaneous Specialties | | | | |
| Miscellaneous specialties /Signage allowance | 13,100 | SQFT | 0.89 | 11,659 |
| Remove and Re-install Mirrors | 20 | LNFT | 37.40 | 748 |
| SUBTOTAL: Miscellaneous Specialties | | | | \$12,407 |
| 11700 Athletic Equipment | | | | |
| Basketball Hoops- Retractable | 6 | EA | 10,899.00 | 65,394 |
| Basketball Scoreboards | 2 | EA | 3,800.00 | 7,600 |
| Divider Curtian | 4,752 | SQFT | 24.00 | 114,048 |
| Volleyball Inserts | 8 | EA | 650.00 | 5,200 |
| Wall Pads | 206 | SQFT | 13.60 | 2,802 |
| SUBTOTAL: Athletic Equipment | | | | \$195,044 |
| 21100 Selective Demolition | | | | |
| Remove double check valve detector | 1 | EACH | 690.00 | 690 |
| Remove fire department connection | 1 | EACH | 460.00 | 460 |
| Remove existing piping | 27 | LNFT | 23.00 | 621 |
| Remove existing piping | 1 | LS | 920.00 | 920 |
| SUBTOTAL: Selective Demolition | | | | \$2,691 |
| 21200 Fire Sprinkler Equipment & Specialties | | | | |
| Wet sprinkler system - \$/SF | 16,427 | SQFT | 3.11 | 51,091 |
| Fire department connection, siamese, exterior wall mounted, 2-1/2" x 2-1/2" x 6" | 1 | EACH | 1,899.97 | 1,900 |
| Double check detector valve, 3" | 1 | EACH | 3,643.94 | 3,644 |
| Supervisory valve, 3" OS&Y w/tamper switch | 1 | EACH | 1,290.94 | 1,291 |
| Flow switches | 1 | EACH | 315.00 | 315 |
| Pressure gauges | 1 | EACH | 260.00 | 260 |
| Floor test connection | 1 | EACH | 730.00 | 730 |
| Fire hose valve, 2-1/2" | 1 | EACH | 371.45 | 371 |
| SUBTOTAL: Fire Sprinkler Equipment & Specialties | | | | \$59,603 |
| 21300 Sprinkler Heads & Piping | | | | |
| Fire/sprinkler main, sch. 10 blk steel pipe, fittings, and supports, 3" | 37 | LNFT | 63.10 | 2,335 |
| Tie new fire/sprinkler main piping into existing | 1 | EACH | 345.00 | 345 |
| SUBTOTAL: Sprinkler Heads & Piping | | | | \$2,680 |
| 21400 Testing & Commissioning | | | | |
| System pressure testing and certification | 1 | LSUM | 2,760.00 | 2,760 |
| SUBTOTAL: Testing & Commissioning | | | | \$2,760 |
| 22100 Selective Demolition | | | | |
| Remove existing wall-mount water closets including carrier and piping | 4 | EACH | 324.45 | 1,298 |
| Remove existing wall-mount lavatories including carrier and piping | 4 | EACH | 270.38 | 1,082 |

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| Remove existing wall-mount urinals including carrier and piping | 1 | EACH | 324.45 | 324 |
| Remove existing showers, stall fixtures with head/valve systems | 4 | EACH | 540.75 | 2,163 |
| Remove hose bibbs | 2 | EACH | 54.08 | 108 |
| Remove floor drain | 4 | EACH | 216.30 | 865 |
| Remove plumbing piping, aboveground/suspended | 369 | LNFT | 16.22 | 5,986 |
| Remove plumbing piping, underground including slab cutting, excavation, backfill, and patching | 139 | LNFT | 103.34 | 14,364 |
| SUBTOTAL: Selective Demolition | | | | \$26,190 |
| 22200 Plumbing Fixtures | | | | |
| Water closet, WC-1/2 wall hung, hardwired sensor-op flush valve | 7 | EACH | 2,547.20 | 17,830 |
| Lavatory, wall hung, L-1 hardwired sensor-op faucet | 4 | EACH | 2,910.20 | 11,641 |
| Lavatory, wall hung, L-2 hardwired sensor-op faucet | 3 | EACH | 2,401.05 | 7,203 |
| Sink, S-1 | 1 | EACH | 1,740.86 | 1,741 |
| Electric water cooler, EWC-2 ADA-bilevel | 1 | EACH | 3,916.03 | 3,916 |
| Electric water cooler, EWC-1 ADA-w/ Bottle Filler | 1 | EACH | 3,016.03 | 3,016 |
| Shower head/valve, ADA/private, in tile enclosure | 1 | EACH | 1,548.90 | 1,549 |
| Hose bibbs | 1 | EACH | 404.08 | 404 |
| Wall hydrant, nonfreeze | 1 | EACH | 537.14 | 537 |
| SUBTOTAL: Plumbing Fixtures | | | | \$47,837 |
| 22300 Plumbing Equipment & Specialties | | | | |
| Hub drains | 1 | EACH | 335.19 | 335 |
| Floor drains-1 | 5 | EACH | 494.16 | 2,471 |
| Floor drains-2 | 3 | EACH | 604.17 | 1,813 |
| Cleanouts - floor | 7 | EACH | 484.16 | 3,389 |
| Cleanouts - wall | 1 | EACH | 326.52 | 327 |
| Cleanouts - grounds | 6 | EACH | 669.78 | 4,019 |
| Roof drains | 1 | EACH | 1,124.45 | 1,124 |
| SUBTOTAL: Plumbing Equipment & Specialties | | | | \$13,477 |
| 22400 Domestic Water, Waste & Vent, & Storm Drainage Piping | | | | |
| Domestic water pipe, fittings, and supports, 2" type L copper | 12 | LNFT | 59.42 | 713 |
| Domestic water pipe, fittings, and supports, 1" type L copper | 21 | LNFT | 38.80 | 815 |
| Domestic water pipe, fittings, and supports, 3/4" type L copper | 316 | LNFT | 28.27 | 8,932 |
| Domestic water pipe, fittings, and supports, 1/2" type L copper | 114 | LNFT | 25.35 | 2,890 |
| Pipe insulation, 2" domestic water piping | 11 | LNFT | 10.07 | 111 |
| Pipe insulation, 1" domestic water piping | 21 | LNFT | 9.02 | 189 |
| Pipe insulation, 3/4" domestic water piping | 316 | LNFT | 8.54 | 2,699 |
| Pipe insulation, 1/2" domestic water piping | 114 | LNFT | 8.14 | 928 |
| Vent pipe, fittings, and supports, PVC, AG, 2" | 56 | LNFT | 52.47 | 2,938 |
| Vent pipe, fittings, and supports, PVC, AG, 1-1/2" | 87 | LNFT | 44.66 | 3,885 |
| Storm drainage pipe, fittings, and supports, CI hub and spigot, AG, 6" | 41 | LNFT | 108.33 | 4,442 |
| Storm drainage pipe, fittings, and supports, PVC, AG, 6" | 42 | LNFT | 118.43 | 4,974 |
| Vent pipe and fittings, CI hub and spigot, UG, 2" | 54 | LNFT | 40.66 | 2,196 |
| Storm drainage pipe and fittings, PVC, UG, 6" | 10 | LNFT | 81.19 | 812 |
| Storm drainage pipe and fittings, PVC, UG, 4" | 456 | LNFT | 57.38 | 26,163 |
| Storm drainage pipe and fittings, PVC, UG, 3" | 8 | LNFT | 46.48 | 372 |
| Sanitary/waste pipe and fittings, PVC, UG, 4" | 222 | LNFT | 47.64 | 10,577 |



CITY OF MADISON
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EXPANSION

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| DESCRIPTION | QTY | UM | UNIT COST | TOTAL COST |
|---|-------|------|-----------|------------|
| Sanitary/waste pipe and fittings, PVC, UG, 3" | 80 | LNFT | 38.91 | 3,112 |
| Sanitary/waste pipe and fittings, PVC, UG, 2" | 52 | LNFT | 27.06 | 1,407 |
| Vent pipe and fittings, PVC, UG, 1-1/2" | 36 | LNFT | 24.67 | 888 |
| Shutoff/isolation valve, ball, 1-1/2" | 6 | EACH | 173.68 | 1,042 |
| SUBTOTAL: Domestic Water, Waste & Vent, & Storm Drainage Piping | | | | \$80,084 |
| 23100 Selective Demolition | | | | |
| Disconnect and remove exhaust fan | 1 | EACH | 460.00 | 460 |
| Disconnect and remove expansion tank | 2 | EACH | 460.00 | 920 |
| Remove existing ductwork | 108 | LNFT | 17.25 | 1,863 |
| Remove existing grilles and diffusers | 1 | EACH | 34.50 | 35 |
| Remove existing grilles and diffusers & Cap | 10 | EACH | 140.00 | 1,400 |
| Remove existing grilles and diffusers-Transfer | 2 | EACH | 57.50 | 115 |
| Disconnect and remove chillers | 1 | EACH | 9,596.00 | 9,596 |
| Demo CW 3 way temp valve 2 way valve | 2 | EACH | 459.60 | 919 |
| Disconnect and remove hydronic system pumps, base-mount end suction | 2 | EACH | 1,378.80 | 2,758 |
| Disconnect and remove hydronic system pumps, water | 2 | EACH | 459.60 | 919 |
| Remove/demo existing mechanical piping - 4", thru 6", metallic | 86 | LNFT | 18.38 | 1,581 |
| Remove existing thermostats | 1 | EACH | 34.50 | 35 |
| Disconnect and remove cabinet unit heaters | 4 | EACH | 229.80 | 919 |
| SUBTOTAL: Selective Demolition | | | | \$21,519 |
| 23200 Ventilation & Exhaust | | | | |
| Air handling unit, 13,000 CFM | 1 | EACH | 93,280.00 | 93,280 |
| AHU Relief Fan 5 HP | 1 | EACH | 14,800.00 | 14,800 |
| AHU Supply Fan 15 HP | 1 | EACH | 30,520.00 | 30,520 |
| CHW coil connections, AHU/RTU - valves, fittings, specialties, and pipe insulation | 3 | EACH | 8,937.70 | 26,813 |
| HW coil connections, AHU/RTU - valves, fittings, specialties, and pipe insulation - | 2 | EACH | 6,002.10 | 12,004 |
| Exhaust fan, roof 1/2 hp | 1 | EACH | 1,620.00 | 1,620 |
| Exhaust fan, EF-7- Mezzanine | 1 | EACH | 1,340.00 | 1,340 |
| Variable air volume terminals w/HW reheat coil | 3 | EACH | 1,360.00 | 4,080 |
| Reheat coil connections, FPB/VAV - valves, fittings, and insulation | 3 | EACH | 1,254.30 | 3,763 |
| Galvanized steel duct, flat oval | 6,183 | LBS | 15.00 | 92,745 |
| Duct insulation | 4,659 | SQFT | 4.70 | 21,902 |
| Registers, grilles and diffusers-CD-2 | 4 | EACH | 136.00 | 544 |
| Registers, grilles and diffusers-CD-1 | 2 | EACH | 116.00 | 232 |
| Supply Grille 1 | 3 | EACH | 373.00 | 1,119 |
| Supply Grille 2 | 1 | EACH | 455.00 | 455 |
| Supply Grille DL-1 | 47 | EACH | 315.00 | 14,805 |
| Return Grille 1 | 4 | EACH | 400.00 | 1,600 |
| Return Grille 2 | 1 | EACH | 355.00 | 355 |
| Transfer Grille 1 | 5 | EACH | 352.00 | 1,760 |
| Transfer Grille 2 | 4 | EACH | 378.00 | 1,512 |
| Transfer Grille 3 | 1 | EACH | 526.67 | 527 |
| Exhaust Grille 1 | 6 | EACH | 365.00 | 2,190 |
| Exhaust Grille 2 | 1 | EACH | 420.00 | 420 |
| Louvers | 118 | SQFT | 79.50 | 9,381 |
| SUBTOTAL: Ventilation & Exhaust | | | | \$337,767 |

| DESCRIPTION | QTY | UM | UNIT COST | TOTAL COST |
|--|-----|------|------------|------------------|
| 23300 Central Hydronic & Steam Equipment & Specialties | | | | |
| Heat exchanger | 1 | EACH | 15,378.80 | 15,379 |
| Process Chiller Multi Stack - 50 Ton (4) Units | 1 | EACH | 186,970.00 | 186,970 |
| Hydronic system pump, 17.9 hp, end suction | 2 | EACH | 8,378.80 | 16,758 |
| Hydronic system pump, 9.7 hp, end Suction | 2 | EACH | 5,389.40 | 10,779 |
| Hydronic system pump, 8.5 hp, inline | 2 | EACH | 4,744.70 | 9,489 |
| Hydronic system pump, 2.7 hp, inline | 3 | EACH | 3,129.80 | 9,389 |
| Hydronic system pump, 3.2 hp, inline | 2 | EACH | 3,529.80 | 7,060 |
| Hydronic system pump, 1 hp, inline | 1 | EACH | 1,614.90 | 1,615 |
| Variable frequency drive, pump, 25 hp | 2 | EACH | 4,993.39 | 9,987 |
| Variable frequency drive, pump, 15 hp | 4 | EACH | 3,343.39 | 13,374 |
| Variable frequency drive, pump, 10 hp | 3 | EACH | 3,073.39 | 9,220 |
| Variable frequency drive, pump, 5 hp | 5 | EACH | 2,293.39 | 11,467 |
| Variable frequency drive, pump, 3/4 hp | 1 | EACH | 1,295.39 | 1,295 |
| 3" two way valves | 2 | EACH | 1,115.60 | 2,231 |
| Flexible pump connections | 22 | EACH | 314.80 | 6,926 |
| Suction diffuser | 11 | EACH | 1,779.17 | 19,571 |
| Three Way valve, 4" | 1 | EACH | 2,279.17 | 2,279 |
| Pump strainer, Y-type | 11 | EACH | 694.17 | 7,636 |
| Buffer Tanks -150 | 1 | EACH | 1,509.60 | 1,510 |
| Buffer Tanks -200 | 1 | EACH | 1,767.05 | 1,767 |
| Expansion tank | 4 | EACH | 4,378.80 | 17,515 |
| Air separator, 6" | 2 | EACH | 3,989.40 | 7,979 |
| Air separator, 4" | 1 | EACH | 2,617.05 | 2,617 |
| CHW & HHW Metering | 2 | EACH | 7,759.60 | 15,519 |
| Glycol Fill Unit | 1 | EACH | 1,359.60 | 1,360 |
| Pressure fill/makeup water system | 3 | EACH | 7,259.60 | 21,779 |
| SUBTOTAL: Central Hydronic & Steam Equipment & Specialties | | | | \$411,469 |
| 23400 Heating & Ventilating Terminals | | | | |
| Cabinet unit heaters, HW hydronic | 2 | EACH | 2,059.60 | 4,119 |
| Destrat Fans-Controller | 1 | EACH | 1,489.40 | 1,489 |
| Destrat Fans-DF1-8-56" | 8 | EACH | 1,139.40 | 9,115 |
| HW connections - valves, fittings, and specialties | 2 | EACH | 429.80 | 860 |
| SUBTOTAL: Heating & Ventilating Terminals | | | | \$15,583 |
| 23500 HVAC Piping | | | | |
| CHWS/R piping, std. wgt. blk. steel pipe, fittings, and supports, welded/flanged, 6" | 431 | LNFT | 160.27 | 69,075 |
| CHWS/R piping, std. wgt. blk. steel pipe, fittings, and supports, welded/flanged, 4" | 349 | LNFT | 107.73 | 37,597 |
| CHWS/R piping, std. wgt. blk. steel pipe, fittings, and supports, welded/flanged, 3" | 403 | LNFT | 88.79 | 35,783 |
| S/R pipe, type L copper pipe, fittings, and supports, 3/4" | 55 | LNFT | 27.38 | 1,506 |
| S/R pipe, type L copper pipe, fittings, and supports, 1/2" | 163 | LNFT | 26.03 | 4,243 |
| HHWS/R piping, std. wgt. blk. steel pipe, fittings, and supports, welded/flanged, 4" | 349 | LNFT | 108.73 | 37,946 |
| Line Flush -Clean and Test | 1 | LS | 5,357.60 | 5,358 |
| Pipe insulation, CHWS/R, 6" | 431 | LNFT | 21.34 | 9,198 |

| DESCRIPTION | QTY | UM | UNIT COST | TOTAL COST |
|--|-------|------|-----------|------------|
| Pipe insulation, CHWS/R, 4" | 698 | LNFT | 17.21 | 12,012 |
| Pipe insulation, CHWS/R, 3" | 403 | LNFT | 14.54 | 5,860 |
| Pipe insulation, S/R, 3/4" | 55 | LNFT | 9.64 | 530 |
| Pipe insulation, S/R, 1/2" | 163 | LNFT | 9.10 | 1,483 |
| SUBTOTAL: HVAC Piping | | | | \$220,591 |
| 23600 Temperature Controls | | | | |
| DDC controls - air handling units | 1 | EACH | 20,000.00 | 20,000 |
| DDC controls - air handling units-Convert to 2 zone system | 1 | EACH | 4,000.00 | 4,000 |
| DDC controls - chiller | 1 | EACH | 6,500.00 | 6,500 |
| DDC controls - hydronic pumps, variable speed | 15 | EACH | 5,000.00 | 75,000 |
| Humidistats-In Steel Box at Gym | 1 | EACH | 800.00 | 800 |
| CO2 sensors | 2 | EACH | 400.00 | 800 |
| SUBTOTAL: Temperature Controls | | | | \$107,100 |
| 23900 Special HVAC | | | | |
| Backfill with sand | 2,823 | CUYD | 48.16 | 135,953 |
| Ground source/geothermal pipe,HPDE , 2" | 125 | LNFT | 4.30 | 537 |
| Ground source/geothermal pipe,HPDE , 2-1/2" | 181 | LNFT | 4.91 | 888 |
| Ground source/geothermal pipe,HPDE , 3" | 202 | LNFT | 5.32 | 1,074 |
| Ground source/geothermal pipe,HPDE , 4" | 1,413 | LNFT | 6.59 | 9,311 |
| Geothermal Pipe Manifold | 1 | EA | 10,200.00 | 10,200 |
| Trench Excavation | 1,921 | LNFT | 32.27 | 61,982 |
| Geothermal Boring 500' depth | 54 | EACH | 2,300.00 | 124,200 |
| Grout Pumped into Borings | 188 | EACH | 257.00 | 48,316 |
| SUBTOTAL: Special HVAC | | | | \$392,461 |
| 26100 Selective Demolition | | | | |
| Disconnect and remove interior light fixtures to 15' high, including supports & whips | 46 | EACH | 49.03 | 2,255 |
| Disconnect and remove electrical devices | 15 | EACH | 29.88 | 448 |
| Disconnect and remove Motor and Feed | 1 | EACH | 443.56 | 444 |
| Disconnect CUH | 2 | EACH | 210.09 | 420 |
| Disconnect and remove Motor | 5 | EACH | 256.78 | 1,284 |
| Disconnect and remove Fire Alarm devices | 7 | EACH | 29.65 | 208 |
| Disconnect and remove Fire Alarm panel | 1 | EACH | 186.78 | 187 |
| SUBTOTAL: Selective Demolition | | | | \$5,245 |
| 26200 Main Power Distribution | | | | |
| Distribution Panel 700A - K | 2 | EACH | 7,781.02 | 15,562 |
| Circuit breaker Bolt-on 3pole 90 Amp | 2 | EACH | 323.39 | 647 |
| Remove 600 Amp Breaker and Replace with 700 Amp | 1 | EACH | 2,966.95 | 2,967 |
| Feeder installation 600 V, including conduit and XHHW wire, 90 A | 80 | LNFT | 30.01 | 2,401 |
| Feeder installation 600 V, including conduit and XHHW wire, 600A | 228 | LNFT | 183.39 | 41,813 |
| Temporary Power | 1 | LSUM | 2,320.68 | 2,321 |
| SUBTOTAL: Main Power Distribution | | | | \$65,710 |
| 26500 Lighting | | | | |
| Light fixture, interior, including lamps, mounting hardware and connections - Type - A | 16 | EACH | 341.74 | 5,468 |



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|--|-------|------|-----------|------------|
| Light fixture, interior, including lamps, mounting hardware and connections - Type - F | 13 | EACH | 261.74 | 3,403 |
| Light fixture, interior, including lamps, mounting hardware and connections - Type - C | 8 | EACH | 316.74 | 2,534 |
| Light fixture, interior, including lamps, mounting hardware and connections - Type - B | 18 | EACH | 246.74 | 4,441 |
| Light fixture, interior, including lamps, mounting hardware and connections - K | 8 | EACH | 455.74 | 3,646 |
| Light fixture, interior, including lamps, mounting hardware and connections - D-Can | 3 | EACH | 291.74 | 875 |
| Light fixture, interior, including lamps, exterior Type J | 10 | EACH | 416.74 | 4,167 |
| Exit lighting, L.E.D. | 11 | EACH | 273.74 | 3,011 |
| Emergency lighting units, battery operated, twin sealed beam light, 25 W, 6 V each | 17 | EACH | 313.74 | 5,334 |
| Exterior Wall Pack Type JE | 2 | EACH | 452.74 | 905 |
| Occupancy sensors, ceiling mounted | 10 | EACH | 239.39 | 2,394 |
| Occupancy sensors automatic wall switches | 4 | EACH | 181.89 | 728 |
| Photo Cell | 1 | EACH | 353.39 | 353 |
| Toggle switch, quiet type, 20 amp | 9 | EACH | 109.64 | 987 |
| 3 way switch, quiet type, single pole, 20 amp | 2 | EACH | 105.39 | 211 |
| Dimming Switch | 5 | EACH | 155.39 | 777 |
| Branch installation 600 V, including 3/4" EMT conduit and THWN wire, 20A | 1,640 | LNFT | 17.41 | 28,555 |
| SUBTOTAL: Lighting | | | | \$67,788 |
| 26600 Branch Power Distribution & Devices | | | | |
| Duplex receptacle, backbox, grounded, 120 volt, 20 amp | 42 | EACH | 111.39 | 4,678 |
| Duplex receptacle, Ground Fault Interrupting, 20 amp | 8 | EACH | 138.39 | 1,107 |
| Duplex receptacle, Ground Fault Interrupting, 20 amp with Waterproof Cover | 2 | EACH | 143.39 | 287 |
| Quadruplex receptacle, backbox, grounded, 120 volt, 20 amp | 6 | EACH | 121.39 | 728 |
| Power special purpose receptacles | 36 | EACH | 126.39 | 4,550 |
| Branch installation 600 V, including 3/4" EMT conduit and THWN wire, 20A | 1,280 | LNFT | 17.26 | 22,095 |
| SUBTOTAL: Branch Power Distribution & Devices | | | | \$33,445 |
| 26700 Mechanical Equipment Connections & Feeders | | | | |
| GEO Field Pump Hook-up | 2 | EACH | 1,760.34 | 3,521 |
| HW Pump Hook-up | 2 | EACH | 730.17 | 1,460 |
| Glycol Pump Hook-up | 2 | EACH | 730.17 | 1,460 |
| CW Pump Hook-up | 2 | EACH | 1,366.95 | 2,734 |
| Coil Pump Hook-up | 1 | EACH | 426.78 | 427 |
| Chiller Hook-up | 1 | EACH | 3,747.12 | 3,747 |
| AHU Hook-up | 1 | EACH | 2,120.34 | 2,120 |
| GEO Primary Pump Hook-up | 2 | EACH | 1,363.69 | 2,727 |
| Install VFD - provided by others | 15 | EACH | 430.17 | 6,453 |
| SUBTOTAL: Mechanical Equipment Connections & Feeders | | | | \$24,649 |
| 26900 Special Electrical | | | | |
| Photovoltaic System-KW not given | 4,528 | SQFT | 45.00 | 203,760 |
| SUBTOTAL: Special Electrical | | | | \$203,760 |
| 27200 Tele/Data Systems | | | | |
| Voice/Data wall outlet, back box and plate, 1 gang, 2-port | 6 | EACH | 351.36 | 2,108 |

| DESCRIPTION | QTY | UM | UNIT COST | TOTAL COST |
|---|--------|------|-----------|------------|
| Wireless Access Point and mounting hardware | 4 | EACH | 506.78 | 2,027 |
| Electric metallic tubing, 1/2" diameter, to 15' high, including fittings and supports | 240 | LNFT | 9.01 | 2,163 |
| Electric metallic tubing, 2" diameter, for fiber to telecomms rooms | 186 | LNFT | 21.75 | 4,046 |
| Unshielded twisted pair (UTP) cable, solid, PVC jacket, #24, 4 pair, category 6a | 1,200 | LNFT | 1.38 | 1,661 |
| 12-Fiber, Singlemode, Fiber Optic Cable, Installed In Conduit | 186 | LNFT | 2.61 | 486 |
| Testing and Engineering/Connections | 1 | LSUM | 560.34 | 560 |
| SUBTOTAL: Tele/Data Systems | | | | \$13,052 |
| 27300 Intercom & Public Address Systems | | | | |
| PA/Sound system, speaker, ceiling mounted | 13 | EACH | 245.30 | 3,189 |
| Conduit and PA/Intercommunication wiring | 650 | LNFT | 12.13 | 7,882 |
| Terminations and Testing | 1 | LS | 1,320.68 | 1,321 |
| SUBTOTAL: Intercom & Public Address Systems | | | | \$12,392 |
| 27600 Audio/Visual & Television System | | | | |
| SUBTOTAL: Audio/Visual & Television System | | | | \$0 |
| 28200 Fire Alarm Systems | | | | |
| Remove and Replace FA System at Existing Building | 38,000 | SQFT | 5.15 | 195,700 |
| Fire alarm control panel, addressable, up to 200 points, connections & programming-Replace existing | 1 | EACH | 16,209.38 | 16,209 |
| Smoke detector, addressable type | 15 | EACH | 296.39 | 4,446 |
| Smoke detector, duct type, addressable | 2 | EACH | 508.48 | 1,017 |
| Heat detector, addressable | 2 | EACH | 273.39 | 547 |
| Manual alarm station, addressable | 2 | EACH | 276.39 | 553 |
| Visual alarm | 3 | EACH | 251.39 | 754 |
| Speaker and strobe light alarm | 7 | EACH | 330.39 | 2,313 |
| Fire alarm wiring installation, including 3/4" EMT conduit and FA cable wire | 425 | LNFT | 12.46 | 5,295 |
| SUBTOTAL: Fire Alarm Systems | | | | \$226,834 |
| 28300 Intrusion Detection & Access Control Systems | | | | |
| SUBTOTAL: Intrusion Detection & Access Control Systems | | | | \$0 |
| 28400 CCTV System | | | | |
| Pan tilt & zoom camera - Indoor | 5 | EACH | 866.78 | 4,334 |
| Camera power supply | 5 | EACH | 355.09 | 1,775 |
| Camera back box - interior | 5 | EACH | 41.35 | 207 |
| Conduit and CCTV wiring | 500 | LNFT | 15.13 | 7,564 |
| Terminations, Testing and Engineering-Tie to Existing | 1 | LS | 747.30 | 747 |
| SUBTOTAL: CCTV System | | | | \$14,628 |
| 31200 Site Grading | | | | |
| Site Survey and Layout | 24 | HRS | 143.77 | 3,450 |
| Cut and fill direct on site | 700 | CUYD | 4.62 | 3,235 |
| Rough grading, small area | 12,000 | SQFT | 0.43 | 5,219 |
| Fine grading, small area | 12,000 | SQFT | 0.61 | 7,332 |
| SUBTOTAL: Site Grading | | | | \$19,236 |
| 31300 Foundation Excavation & Fill | | | | |
| Excavate for Bore Field | 2,823 | CUYD | 13.17 | 37,166 |
| Excavate for footings | 298 | CUYD | 8.78 | 2,616 |



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| DESCRIPTION | QTY | UM | UNIT COST | TOTAL COST |
|--|--------|------|-----------|------------|
| Excavate for Slab on Grade | 447 | CUYD | 7.90 | 3,531 |
| Backfill with imported material | 200 | CUYD | 15.56 | 3,112 |
| Add Backfill to Site | 700 | CUYD | 17.16 | 12,011 |
| SUBTOTAL: Foundation Excavation & Fill | | | | \$58,436 |
| 31600 Erosion & Sedimentation Control | | | | |
| Tracking Pad | 2,435 | SQFT | 3.63 | 8,837 |
| Rip Rap | 205 | SQFT | 4.91 | 1,007 |
| Erosion Control Mating | 614 | SQYD | 1.22 | 747 |
| Erosion Control | 1 | LS | 1,000.00 | 1,000 |
| SUBTOTAL: Erosion & Sedimentation Control | | | | \$11,591 |
| 32100 Pavement | | | | |
| Protect Tree | 1 | EACH | 274.01 | 274 |
| Remove tree, 12"-24" cal | 6 | EACH | 794.62 | 4,768 |
| Relocate Light Pole | 1 | EACH | 2,648.72 | 2,649 |
| Remove asphalt paving | 6,267 | SQFT | 0.89 | 5,582 |
| Remove concrete paving | 1,566 | SQFT | 2.58 | 4,047 |
| Remove curb and gutter | 29 | LNFT | 8.10 | 235 |
| Remove Retaining Wall | 294 | SQFT | 4.32 | 1,269 |
| Remove concrete walls | 15 | CUYD | 252.35 | 3,684 |
| Site Removals | 1 | LS | 10,000.00 | 10,000 |
| Temp Chainlink Fence | 143 | LNFT | 15.42 | 2,205 |
| Saw cut paving, | 336 | LNFT | 6.07 | 2,041 |
| CA-6 base, 4" thk at concrete walk | 28 | CUYD | 49.61 | 1,399 |
| CA-6 base, 8" thk at asphalt paving | 137 | CUYD | 43.19 | 5,917 |
| Asphalt pavement, 2" surface course, on 3" binder course | 5,504 | SQFT | 3.68 | 20,279 |
| Curb Stop | 9 | EACH | 113.26 | 1,019 |
| Stripe parking space, ADA | 9 | EACH | 451.45 | 4,063 |
| Stripe parking space, No Parking | 5 | EACH | 411.45 | 2,057 |
| Parking Signage | 9 | EACH | 116.72 | 1,051 |
| Concrete curb & gutter, machine formed | 287 | LNFT | 17.76 | 5,098 |
| Concrete curb & gutter, 6" Box | 15 | LNFT | 15.26 | 229 |
| Concrete walk, 5" PC concrete3 | 2,301 | SQFT | 6.30 | 14,486 |
| CA-6 base, 6" thk, at concrete slab on grade | 223 | CUYD | 30.01 | 6,692 |
| SUBTOTAL: Pavement | | | | \$99,043 |
| 32600 Landscaping | | | | |
| Trees, deciduous, 2" cal, B&B | 9 | EACH | 1,287.50 | 11,588 |
| Trees, evergreen | 3 | EACH | 461.67 | 1,385 |
| Ornamental trees, 6' high | 5 | EACH | 799.29 | 3,996 |
| Shrubs, deciduous, 8"-24" | 91 | EACH | 56.95 | 5,183 |
| Shrubs, deciduous, 24"-36", B&B | 42 | EACH | 66.94 | 2,811 |
| Shrubs, evergreen, 18"-24", B&B | 33 | EACH | 78.95 | 2,605 |
| Ornamental grasses, 1 gal | 43 | EACH | 15.39 | 662 |
| Perennials, 1 gal | 144 | EACH | 8.51 | 1,225 |
| Planting Bed | 4,139 | SQFT | 3.26 | 13,510 |
| Rain Garden-Vegatative Mat | 2,689 | SQFT | 4.64 | 12,483 |
| Topsoil, 12" thk | 12,635 | SQFT | 1.34 | 16,933 |



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| DESCRIPTION | QTY | UM | UNIT COST | TOTAL COST |
|--|-------|------|-----------|--------------------|
| Seeding, fertilizer and fine grading, machine | 3,594 | SQFT | 0.90 | 3,245 |
| Mulch, gravel, hand spread | 12 | CUYD | 133.44 | 1,601 |
| SUBTOTAL: Landscaping | | | | \$77,229 |
| 32700 Site Furnishings | | | | |
| Bike racks | 18 | EACH | 988.27 | 17,789 |
| Edging | 757 | LNFT | 2.78 | 2,101 |
| SUBTOTAL: Site Furnishings | | | | \$19,890 |
| 33100 Selective Site Demolition | | | | |
| Excavate and remove existing underground utility piping; backfill and compact after removal-Electrical | 137 | LNFT | 17.78 | 2,436 |
| SUBTOTAL: Selective Site Demolition | | | | \$2,436 |
| 33200 Site Water Service | | | | |
| SUBTOTAL: Site Water Service | | | | \$0 |
| 33300 Site Sanitary & Storm Sewer | | | | |
| PVC storm sewer pipe, HPDE 10" | 70 | LNFT | 17.66 | 1,237 |
| PVC storm sewer pipe, HPDE , 8" | 147 | LNFT | 13.25 | 1,947 |
| PVC storm sewer pipe, HPDE, 6" | 240 | LNFT | 8.39 | 2,013 |
| Subsoil drainage pipe, perforated HPDE , 6" | 150 | LNFT | 17.20 | 2,580 |
| Catch basins | 9 | EACH | 2,481.55 | 22,334 |
| Cleanouts | 2 | EACH | 721.31 | 1,443 |
| Trench excavation, pipe bedding, and backfill (<=18" pipe) | 607 | LNFT | 27.63 | 16,773 |
| SUBTOTAL: Site Sanitary & Storm Sewer | | | | \$48,327 |
| TOTAL: Base Building | | | | \$5,469,279 |

01 HVAC Alternates

23100 Selective Demolition

| | | | | |
|--|-----|------|----------|----------------|
| Disconnect and remove HW boilers including flue/breeching and piping | 1 | EACH | 1,838.40 | 1,838 |
| Remove/demo existing mechanical piping - 2", thru 4", metallic | 118 | LNFT | 6.13 | 723 |
| SUBTOTAL: Selective Demolition | | | | \$2,562 |

23300 Central Hydronic & Steam Equipment & Specialties

| | | | | |
|---|---|------|----------|----------------|
| Hydronic system pump, 1 hp, inline | 1 | EACH | 1,729.80 | 1,730 |
| Add 3 way Contol Valve 3" | 2 | EACH | 1,144.70 | 2,289 |
| SUBTOTAL: Central Hydronic & Steam Equipment & Specialties | | | | \$4,019 |

23600 Temperature Controls

| | | | | |
|---------------------------------------|---|------|----------|----------------|
| DDC controls - Valves | 2 | EACH | 2,500.00 | 5,000 |
| SUBTOTAL: Temperature Controls | | | | \$5,000 |

23900 Special HVAC

| | | | | |
|-------------------------------|-----|------|----------|-----------------|
| Backfill with sand | 931 | CUYD | 48.16 | 44,836 |
| Geothermal Boring 500' depth | 17 | EACH | 2,300.00 | 39,100 |
| Grout Pumped into Borings | 62 | EACH | 257.00 | 15,934 |
| SUBTOTAL: Special HVAC | | | | \$99,870 |

31300 Foundation Excavation & Fill

| | | | | |
|-------------------------|-----|------|-------|--------|
| Excavate for Bore Field | 931 | CUYD | 13.17 | 12,257 |
|-------------------------|-----|------|-------|--------|



CITY OF MADISON
WARNER PARK COMMUNITY CENTER
EXPANSION

REF DOC 4: COST ESTIMATE

CD Estimate
04/10/2024
01

| DESCRIPTION | QTY | UM | UNIT COST | TOTAL COST |
|--|-----|----|-----------|------------|
| SUBTOTAL: Foundation Excavation & Fill | | | | \$12,257 |
| TOTAL: HVAC Alternates | | | | \$123,708 |

02 Solar Panel Additions

| | | | | |
|--|--------------------|------|----------|----------|
| 26900 | Special Electrical | | | |
| Photovoltaic System-Demo Existing Solar Disconnect | 1 | EA | 238.48 | 238 |
| Photovoltaic System-250 Amp Disconnect | 1 | EA | 1,713.56 | 1,714 |
| Photovoltaic System-Add Combiner Panel | 1 | EA | 973.56 | 974 |
| Photovoltaic System-Add Feeder Sections | 400 | LNFT | 39.94 | 15,977 |
| Photovoltaic System-Add-10KW Invertor | 2 | EA | 2,373.56 | 4,747 |
| Photovoltaic System-Add-50KW Invertor | 1 | EA | 3,873.56 | 3,874 |
| SUBTOTAL: Special Electrical | | | | \$27,523 |
| TOTAL: Solar Panel Additions | | | | \$27,523 |

FOR REFERENCE ONLY. ALL QUANTITIES AND UNIT COSTS ARE THE RESPONSIBILITY OF BIDDERS