

GENERAL SUMMARY

Prepared for:

Project ID:

Scope: HVAC

No. Of Floors: 1

Date: 11-Oct-23



BUILDING GSF 2,662

| DIVISION NO | DESCRIPTION | TOTAL DIV. COST | TOTAL DIV. COST (PER SF) |
|----------------------------|----------------------|--------------------|-----------------------------|
| 1000 | General Requirements | \$ 10,900 | \$ 4 |
| 23000 | HVAC | \$ 62,919 | \$ 24 |
| TOTAL TRADE COST | | \$ 73,819 | \$ 28 |
| OVERHEAD AND PROFIT | | | |
| | 15% | \$ 11,073 | \$ 4.16 |
| | INSURANCE 3% | \$ 2,215 | \$ 1 |
| | CONTINGENCY 5% | \$ 3,691 | \$ 1 |
| | TAX 8.25% | \$ 3,554 | \$ 2 |
| SUGGESTED BID | | \$ 94,351 | \$ 36 |

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: HVAC



Date: 11-Oct-23

| SR # | Drawing # | Detail # | DESCRIPTION | UNIT | QUANTITY | WASTAGE | QUANTITY W/ WASTAGE | UNIT MANHOURL | HOURLY WAGE | LABOR COST | MAT. COST | UNIT COST | SUB COST |
|--------------------------------------|-----------|----------|---|------|----------|---------|---------------------|---------------|-------------|------------|-------------|-----------------------|--------------|
| GENERAL REQUIREMENTS | | | | | | | | | | | | | |
| 1 | | | Permits | LS | 1 | 0% | 1 | 0.000 | \$ - | \$ - | \$ - | \$ - | \$ - |
| 2 | | | Supervision and Coordination | LS | 1 | 0% | 1 | 0.000 | \$ - | \$ - | \$ - | \$ 4,500.00 | \$ 4,500.00 |
| 3 | | | Submittals and Shop drawings | LS | 1 | 0% | 1 | 0.000 | \$ - | \$ - | \$ - | \$ 1,200.00 | \$ 1,200.00 |
| 4 | | | Final Cleaning | LS | 1 | 0% | 1 | 0.000 | \$ - | \$ - | \$ - | \$ 1,000.00 | \$ 1,000.00 |
| 5 | | | Mobilization Costs | LS | 1 | 0% | 1 | 0.000 | \$ - | \$ - | \$ - | \$ 3,000.00 | \$ 3,000.00 |
| 6 | | | Temporary Control & Facilities | LS | 1 | 0% | 1 | 0.000 | \$ - | \$ - | \$ - | \$ 1,200.00 | \$ 1,200.00 |
| 7 | | | Scaffolding | LS | 1 | 0% | 1 | 0.000 | \$ - | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | | | SUBTOTAL | \$ 10,900 |
| HVAC | | | | | | | | | | | | | |
| FLEXIBLE DUCT | | | | | | | | | | | | | |
| 8 | | | 6" Dia Flexible Duct | LF | 27 | 10% | 30 | 0.030 | \$ 72.00 | \$ 2.16 | \$ 2.08 | \$ 4.24 | \$ 125.74 |
| 9 | | | 8" Dia Flexible Duct | LF | 37 | 10% | 41 | 0.032 | \$ 72.00 | \$ 2.30 | \$ 2.55 | \$ 4.85 | \$ 197.75 |
| 10 | | | 10" Dia Flexible Duct | LF | 19 | 10% | 20 | 0.038 | \$ 72.00 | \$ 2.74 | \$ 3.42 | \$ 6.15 | \$ 125.25 |
| REFRIGERANT PIPE | | | | | | | | | | | | | |
| | | Assumed | Type "ACR" Copper Pipe | | | | | | | | | | |
| 11 | | | 3/8" Dia Refrigerant Liquid Pipe | LF | 144 | 10% | 158 | 0.050 | \$ 72.00 | \$ 3.60 | \$ 0.83 | \$ 4.43 | \$ 700.69 |
| 12 | | | 5/8" Dia Refrigerant Suction Pipe | LF | 151 | 10% | 166 | 0.050 | \$ 72.00 | \$ 3.60 | \$ 1.62 | \$ 5.22 | \$ 867.33 |
| | | Assumed | 1/2" Thick Fiberglass Insulation | | | | | | | | | | |
| 13 | | | 3/8" Dia Refrigerant Liquid Pipe | LF | 144 | 10% | 158 | 0.064 | \$ 72.00 | \$ 4.61 | \$ 1.41 | \$ 6.02 | \$ 951.86 |
| 14 | | | 5/8" Dia Refrigerant Suction Pipe | LF | 151 | 10% | 166 | 0.064 | \$ 72.00 | \$ 4.61 | \$ 1.41 | \$ 6.02 | \$ 999.92 |
| REFRIGERANT PIPE FITTINGS | | | | | | | | | | | | | |
| ELBOW | | | | | | | | | | | | | |
| 15 | | | 3/8" Dia Refrigerant Liquid Pipe 90 Deg Elbow | EA | 20 | 0% | 20 | 0.364 | \$ 72.00 | \$ 26.21 | \$ 7.58 | \$ 33.79 | \$ 675.76 |
| 16 | | | 5/8" Dia Refrigerant Suction Pipe 90 Deg Elbow | EA | 20 | 0% | 20 | 0.421 | \$ 72.00 | \$ 30.31 | \$ 4.30 | \$ 34.61 | \$ 692.24 |
| CONDENSATE DRAIN PIPE | | | | | | | | | | | | | |
| | | Assumed | Type "M" Copper Pipe | | | | | | | | | | |
| 17 | | | 3/4" Dia Condensate Drain Pipe | LF | 76 | 10% | 84 | 0.103 | \$ 72.00 | \$ 7.42 | \$ 5.13 | \$ 12.55 | \$ 1,052.43 |
| | | Assumed | 1/2" Thick Fiberglass Insulation | | | | | | | | | | |
| 18 | | | 3/4" Dia Condensate Drain Pipe | LF | 76 | 10% | 84 | 0.067 | \$ 72.00 | \$ 4.82 | \$ 1.63 | \$ 6.45 | \$ 541.40 |
| CONDENSATE DRAIN FITTINGS | | | | | | | | | | | | | |
| ELBOW | | | | | | | | | | | | | |
| 19 | | | 3/4" Dia Condensate Pipe 90 Deg Elbow | EA | 9 | 0% | 9 | 0.421 | \$ 72.00 | \$ 30.31 | \$ 6.01 | \$ 36.32 | \$ 326.90 |
| AIR DEVICES | | | | | | | | | | | | | |
| 20 | | | S1: Plaque Face Diffuser, PRICE SPD, Face Size: 24"x24", Material: S | EA | 18 | 0% | 18 | 0.389 | \$ 72.00 | \$ 28.01 | \$ 153.50 | \$ 181.51 | \$ 3,267.14 |
| 21 | | | S2: Linear Slot Diffuser, PRICE TDB3, Material: Aluminum, Finish: W | EA | 3 | 0% | 3 | 0.480 | \$ 72.00 | \$ 34.56 | \$ 112.56 | \$ 147.12 | \$ 441.36 |
| 22 | | | R1: Eggcrate Return Grille, PRICE 80, Face Size: 22"x22", Material: A | EA | 11 | 0% | 11 | 0.420 | \$ 72.00 | \$ 30.24 | \$ 185.60 | \$ 215.84 | \$ 2,374.24 |
| FAN COIL UNITS | | | | | | | | | | | | | |
| 23 | | | FC-1: Fan Coil, JOHNSON CONTROLS JHVTD48BCC2N1, Suppl | EA | 1 | 0% | 1 | 2.560 | \$ 72.00 | \$ 184.32 | \$ 2,091.71 | \$ 2,276.03 | \$ 2,276.03 |
| 24 | | | FC-2: Fan Coil, JOHNSON CONTROLS JHVTD060JBCC2N1, Suppl | EA | 1 | 0% | 1 | 2.820 | \$ 72.00 | \$ 203.04 | \$ 2,286.71 | \$ 2,489.75 | \$ 2,489.75 |
| 25 | | | FC-3: Fan Coil, JOHNSON CONTROLS JHVTD36DBAC2N1, Suppl | EA | 1 | 0% | 1 | 2.230 | \$ 72.00 | \$ 160.56 | \$ 1,871.71 | \$ 2,032.27 | \$ 2,032.27 |
| 26 | | | FC-4: Fan Coil, JOHNSON CONTROLS JHVTD36DBAC2N1, Suppl | EA | 1 | 0% | 1 | 2.230 | \$ 72.00 | \$ 160.56 | \$ 1,871.71 | \$ 2,032.27 | \$ 2,032.27 |
| SPLIT SYSTEM CONDENSING UNITS | | | | | | | | | | | | | |
| 27 | | | CU-1: Condensing Unit, JOHNSON CONTROLS THE42B33S, Norma | EA | 1 | 0% | 1 | 3.250 | \$ 72.00 | \$ 234.00 | \$ 2,237.00 | \$ 2,471.00 | \$ 2,471.00 |
| 28 | | | CU-2: Condensing Unit, JOHNSON CONTROLS THE60B31S, Norma | EA | 1 | 0% | 1 | 3.450 | \$ 72.00 | \$ 248.40 | \$ 2,684.00 | \$ 2,932.40 | \$ 2,932.40 |
| 29 | | | CU-3: Condensing Unit, JOHNSON CONTROLS THE30B31S, Norma | EA | 1 | 0% | 1 | 2.890 | \$ 72.00 | \$ 208.08 | \$ 1,770.00 | \$ 1,978.08 | \$ 1,978.08 |
| 30 | | | CU-4: Condensing Unit, JOHNSON CONTROLS THE30B31S, Norma | EA | 1 | 0% | 1 | 2.890 | \$ 72.00 | \$ 208.08 | \$ 1,770.00 | \$ 1,978.08 | \$ 1,978.08 |
| EXHAUST FANS | | | | | | | | | | | | | |
| 31 | | | EF-1: GREENHECK CSP-A250, Type: Ceiling, Arrangement: Round O | EA | 1 | 0% | 1 | 1.230 | \$ 72.00 | \$ 88.56 | \$ 385.56 | \$ 474.12 | \$ 474.12 |
| 32 | | | EF-2: GREENHECK CSP-A250, Type: Ceiling, Arrangement: Round O | EA | 1 | 0% | 1 | 1.230 | \$ 72.00 | \$ 88.56 | \$ 385.56 | \$ 474.12 | \$ 474.12 |
| 33 | | | EF-3: GREENHECK CSP-A250, Type: Ceiling, Arrangement: Round O | EA | 1 | 0% | 1 | 1.230 | \$ 72.00 | \$ 88.56 | \$ 385.56 | \$ 474.12 | \$ 474.12 |
| DAMPERS | | | | | | | | | | | | | |
| 34 | | | 6" Dia Volume Damper | EA | 7 | 0% | 7 | 0.250 | \$ 72.00 | \$ 18.00 | \$ 22.26 | \$ 40.26 | \$ 281.79 |
| 35 | | | 8" Dia Volume Damper | EA | 8 | 0% | 8 | 0.260 | \$ 72.00 | \$ 18.72 | \$ 28.40 | \$ 47.12 | \$ 376.96 |
| 36 | | | 10" Dia Volume Damper | EA | 5 | 0% | 5 | 0.289 | \$ 72.00 | \$ 20.81 | \$ 32.56 | \$ 53.37 | \$ 266.84 |
| 37 | | | 6"x6" Volume Damper | EA | 5 | 0% | 5 | 0.250 | \$ 72.00 | \$ 18.00 | \$ 42.54 | \$ 60.54 | \$ 302.70 |
| 38 | | | 8"x8" Volume Damper | EA | 5 | 0% | 5 | 0.280 | \$ 72.00 | \$ 20.16 | \$ 54.42 | \$ 74.58 | \$ 372.90 |
| 39 | | | 12"x10" Volume Damper | EA | 1 | 0% | 1 | 0.320 | \$ 72.00 | \$ 23.04 | \$ 65.12 | \$ 88.16 | \$ 88.16 |
| 40 | | | 12"x12" Volume Damper | EA | 1 | 0% | 1 | 0.320 | \$ 72.00 | \$ 23.04 | \$ 87.72 | \$ 110.76 | \$ 110.76 |
| 41 | | | 14"x12" Volume Damper | EA | 1 | 0% | 1 | 0.345 | \$ 72.00 | \$ 24.84 | \$ 171.76 | \$ 196.60 | \$ 196.60 |
| 42 | | | 14"x14" Volume Damper | EA | 1 | 0% | 1 | 0.345 | \$ 72.00 | \$ 24.84 | \$ 204.65 | \$ 229.49 | \$ 229.49 |
| 43 | | | 6"x6" Motorized Damper | EA | 4 | 0% | 4 | 0.280 | \$ 72.00 | \$ 20.16 | \$ 187.23 | \$ 207.39 | \$ 829.56 |
| 44 | | | 8"x8" Motorized Damper | EA | 1 | 0% | 1 | 0.300 | \$ 72.00 | \$ 21.60 | \$ 207.26 | \$ 228.86 | \$ 228.86 |
| DUCT WEIGHT | | | | | | | | | | | | | |
| 45 | | | Galvanized Sheet Metal Duct | LB | 2084 | 10% | 2292 | 0.038 | \$ 72.00 | \$ 2.74 | \$ 4.10 | \$ 6.84 | \$ 15,668.06 |
| DUCT INSULATION | | | | | | | | | | | | | |
| 46 | | | 2" Thick Fiberglass Insulation | SF | 1489 | 10% | 1638 | 0.025 | \$ 72.00 | \$ 1.80 | \$ 2.58 | \$ 4.38 | \$ 7,173.52 |
| MISCELLANEOUS | | | | | | | | | | | | | |
| 47 | | | 6" Dia Duct Cap | EA | 1 | 0% | 1 | 0.230 | \$ 72.00 | \$ 16.56 | \$ 8.45 | \$ 25.01 | \$ 25.01 |
| 48 | | | 10" Dia Duct Cap | EA | 1 | 0% | 1 | 0.250 | \$ 72.00 | \$ 18.00 | \$ 17.23 | \$ 35.23 | \$ 35.23 |
| 49 | | | 10"x10" Outside Air Duct Roof Hood GREENHECK GRS-18 | EA | 1 | 0% | 1 | 1.230 | \$ 72.00 | \$ 88.56 | \$ 467.46 | \$ 556.02 | \$ 556.02 |
| 50 | | | 17"x20" Duct Smoke Detector | EA | 1 | 0% | 1 | 0.650 | \$ 72.00 | \$ 46.80 | \$ 269.60 | \$ 316.40 | \$ 316.40 |
| 51 | | | Temperature Sensor | EA | 4 | 0% | 4 | 0.320 | \$ 72.00 | \$ 23.04 | \$ 39.00 | \$ 62.04 | \$ 248.16 |
| PIPE SUPPORTS | | | | | | | | | | | | | |
| 52 | | | 3/8" Dia Adjustable Clevis Hanger | EA | 24 | 0% | 24 | 0.008 | \$ 72.00 | \$ 0.58 | \$ 1.55 | \$ 2.13 | \$ 51.02 |
| 53 | | | 5/8" Dia Adjustable Clevis Hanger | EA | 25 | 0% | 25 | 0.008 | \$ 72.00 | \$ 0.58 | \$ 1.75 | \$ 2.33 | \$ 58.15 |
| 54 | | | 3/4" Dia Adjustable Clevis Hanger | EA | 12 | 0% | 12 | 0.008 | \$ 72.00 | \$ 0.58 | \$ 1.55 | \$ 2.13 | \$ 25.51 |
| 55 | | | 3/8" Dia Threaded Rod (1 Ea. = 1 FT) | EA | 61 | 0% | 61 | 0.050 | \$ 72.00 | \$ 3.60 | \$ 4.77 | \$ 8.37 | \$ 510.57 |
| DUCT SUPPORTS | | | | | | | | | | | | | |
| 56 | | | 3/8" Threaded Rod | EA | 130 | 0% | 130 | 0.050 | \$ 72.00 | \$ 3.60 | \$ 4.77 | \$ 8.37 | \$ 1,091.45 |
| 57 | | | 1" x 22 Ga. Strap | EA | 65 | 0% | 65 | 0.160 | \$ 72.00 | \$ 11.52 | \$ 2.64 | \$ 14.16 | \$ 923.23 |
| | | | | | | | | | | | | SUBTOTAL | \$ 62,919 |
| | | | | | | | | | | | | PROJECTED COST | \$73,819 |
| OVERHEAD AND PROFIT | | | | | | | | | | | | 15% | \$11,073 |
| INSURANCE | | | | | | | | | | | | 3% | \$2,215 |
| CONTINGENCY | | | | | | | | | | | | 5% | \$3,691 |
| TAX | | | | | | | | | | | | 8.25% | \$3,554 |
| SUGGESTED BID | | | | | | | | | | | | | \$94,351 |

BREAKDOWN OF DUCT ITEMS

Prepared for: 0
 Project ID:
 Scope: **HVAC**



Date: **11-Oct-23**

| SR # | DESCRIPTION | UNIT | QUANTIT Y | WASTAGE | QUANTITY W/ WASTAGE |
|------------------------------------|--------------------------|------|--------------|---------|---------------------------|
| HVAC | | | | | |
| GALVANIZED SHEET METAL DUCT | | | | | |
| 1 | 6" Dia Supply Air Duct | LF | 30 | 10% | 33 |
| 2 | 8" Dia Supply Air Duct | LF | 28 | 10% | 31 |
| 3 | 10" Dia Supply Air Duct | LF | 11 | 10% | 12 |
| 4 | 10"x10" Supply Air Duct | LF | 40 | 10% | 44 |
| 5 | 12"x10" Supply Air Duct | LF | 8 | 10% | 9 |
| 6 | 12"x12" Supply Air Duct | LF | 18 | 10% | 20 |
| 7 | 14"x12" Supply Air Duct | LF | 29 | 10% | 32 |
| 8 | 14"x14" Supply Air Duct | LF | 15 | 10% | 17 |
| 9 | 16"x20" Supply Air Duct | LF | 11 | 10% | 12 |
| 10 | 20"x14" Supply Air Duct | LF | 6 | 10% | 6 |
| 11 | 6"x6" Return Air Duct | LF | 21 | 10% | 23 |
| 12 | 8"x8" Return Air Duct | LF | 19 | 10% | 21 |
| 13 | 10"x10" Return Air Duct | LF | 19 | 10% | 21 |
| 14 | 12"x10" Return Air Duct | LF | 5 | 10% | 5 |
| 15 | 12"x12" Return Air Duct | LF | 4 | 10% | 4 |
| 16 | 14"x10" Return Air Duct | LF | 30 | 10% | 33 |
| 17 | 14"x12" Return Air Duct | LF | 23 | 10% | 25 |
| 18 | 14"x14" Return Air Duct | LF | 31 | 10% | 34 |
| 19 | 16"x16" Return Air Duct | LF | 42 | 10% | 46 |
| 20 | 20"x17" Return Air Duct | LF | 3 | 10% | 3 |
| 21 | 6"x6" Outside Air Duct | LF | 45 | 10% | 49 |
| 22 | 8"x8" Outside Air Duct | LF | 27 | 10% | 29 |
| 23 | 10"x10" Outside Air Duct | LF | 50 | 10% | 55 |
| 24 | 6" Dia Exhaust Air Duct | LF | 115 | 10% | 127 |
| 25 | 10" Dia Exhaust Air Duct | LF | 23 | 10% | 26 |
| | | | | | |