

Budget

**TDW HVAC Project**

		Actual Quoted Price		
Contractor	Purpose	Budget	Basis	Notes
Truman P Young	Structural Design to reinforce the 2 <sup>nd</sup> floor roof for wgt of unit	\$4,700	T&M Not-to-exceed	
General Contractor TBD	Mechanical work to reinforce 2 <sup>nd</sup> floor roof for HVAC unit Roof Curb for new unit to sit on New roof hatch opening.	\$10,000	Budget allocation by Netzley	
Hader Roofing	Roofing work to seal areas exposed as part of reinforcement work.	\$5,000	Budget allocation by Netzley	
HVAC Contractor DeBra ? Geiler ?	Remove existing HVAC units Provide new HVAC roof top unit Provide crane to remove & set units Provide & Install ductwork, etc. Warranty required unit startup	\$5,000 \$22,000 \$75,000	Design Engineering & Drawings T&M Carrier Roof top HVAC Unit Permit(s), Ductwork, Installation & Start	Estimate by DeBra To be confirmed by DeBra Budget allocation by DeBra, Final based on design changes made on 3/19 & options to be yet to be selected
T.J. Williams Electric Co.	New conduit & wire to supply new unit	\$4,130	Existing HVAC feeder not sufficient in s	Quote by B. Meyer of TJ Williams
C & D Mechanical	Gas supply line from basement to unit	\$5,000	Contractor that did restroom piping	Budget allocation by Netzley
Purchase only roof hatch	Relocated roof hatch	\$1,000	Babcock Davis 36 x 30 Model # BRHUG36X30S1T	Provides roof curb as well (Budget Allocation)
<b>PROJECT COST TOTAL PROJECTED:</b>		<b>\$131,830</b>		

**Work Sequence**

**In Parallel Work**

Structure design to drawings for general contractor	Sign contract for HVAC contractor, unit placed on order, initial contract payment	
General Contractor for Roof mechanical work	Electrical contractor for new power supply, & wiring for controls	
Hader roof water proofing repair	Piping contractor to run new gas line from basement to 2 <sup>nd</sup> floor attic, clean up piping at meter in basement	
Cincinnati delivery of new unit Prep existing units for removal Crane work to remove existing units, set new A/C unit	Scrapping of existing units (Value?) Sell newer unit on Marketplace	
* All roof work must be complete prior to setting new unit		
Duct work installation		
Start up of new HVAC		
Electrical Feeder	3-2/0 & #6 G in 1-1/2" EMT conduit Includes \$1000 wire cost	Salvage of existing copper wire

1. Cost breakdown for TDW new HVAC @ max \$150K allocation
  1. Design of system time & written specs and permit construction \$5K max
  2. Purchase of new HVAC unit \$22K firm \*1 note
  3. Install labor and material \$75K allocation, cost TBD **\*\*2. Note**
2. Unit to be placed on roof weighs **2200 lbs** (just over one ton) For determination of what must be done to support the unit:
  1. Structural Engineer to evaluate and recommend reinforcement with drawing and specifications \$4.7K T&M Max
  2. General contractor to do reinforcement work \$10K allocation (Firm bid once structural engineer's recommendations are in hand)
  3. Hader Roofing to repair portions of roof disturbed after mods above are complete \$6K allocation (includes \$1K for new relocated roof hatch)
3. Upgrade of electrical wiring for increased power requirements by T J Williams Electric \$4.7K firm (includes 300 feet of 2/0 large copper cable @ \$1000.00 & IBI electrical construction permit)
4. Plumbing contractor to run 1" gas line from basement to 2nd floor roof, probably same one that did restroom work, \$10K allocation, as not bid yet, can be deferred at least to Fail, or continue to use Hot Water system
5. Cheviot HVAC construction permit \$?

**\*1 Note** - HVAC unit features and operation costs

### 1. 20 Ton cooling capacity

1. All noise producing mechanical parts will be on rooftop
2. Large enough capacity to pull building down to desired temperature in 1/2 day, will not require running 24/7 to achieve "show time" temperature
2. Code required fresh make up air
3. Variable speed fan for reduced noise
4. 2 compressors for load diversity and redundancy
5. "Free Cooling" as unit evaluates outside humidity and temperature, will 100% cool with outside air if in range
6. Natural Gas heating

**\*\* 2. Note:** HVAC installation - Air Ductwork - newer product cloth ducts has been chosen as best lower cost option for the air distribution portion in the House, location below ceiling chosen as lower cost installation option, see web for information

Draft Financial Plan for payment:

Current Fundraising Total ~ \$24,000

Other cash holdings ~ \$74,000

Additional projected fundraising \$20,000

Payment plan: ~\$44,000 from fundraising  
~\$40,000 from cash holdings  
~\$50,000 from secured line of credit.

Monthly Payment expected: \$800

Months to pay off: 90 months. (7.5 years)