



## Work Order Bid (ID)

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### **WORK ORDER INFORMATION**

**Work Order Name:** WO/1003903/1

**Work Order Type:** Weatherization

**Audit Name:** 1003027

### **CLIENT INFORMATION**

**Client ID:** 1003903

**Alt. Client ID:** C1003987SA101

**County:** Hawkins

### **AGENCY INFORMATION**

**Agency:** Upper East Tennessee Human  
Development Agency

**Address:** 301 Louis Street  
Kingsport TN 37662

**Agency Phone:** 1-423-246-6180

**Agency Fax:**

**Email Address:** sdawes@uethda.org

**Company Name & License Number:** \_\_\_\_\_

**Contractor's Signature:** \_\_\_\_\_

### **COMMENT**

840 SQUARE FOOT WIDE MOBILE HOME MANUFACTURED IN 1983.  
ALL WORK TO BE DONE IN ACCORDANCE WITH THE TENNESSEE STANDARD WORK SPECIFICATIONS  
AS ADOPTED BY THE TENNESSEE HOUSING DEVELOPMENT AGENCY.

CONTRACTOR IS RESPONSIBLE TO VERIFY DIMENSIONS AND SCOPE OF WORK PRIOR TO BID.

SURVEY ON 9/28/2020 BY RON CARLISLE (423) 736-0678  
INITIAL BLOWER DOOR 1148@-50  
POST WORK TARGET 840@-50 MUST BE REACHED OR EXCEEDED

**Measure 1 Seal Ducts**

**Components**

**Inspected**

**Comment** SHOP-VAC AND PREPARE THE DUCT-WORK AS PER THE TN SWS.  
 USE MASTIC OR APPROPRIATE MATERIAL TO SEAL THE DUCT-WORK AS PER  
 THE THDA SWS  
 THE OBJECTIVE IS TO REDUCE THE PRESSURE PAN READINGS TO LESS THAN  
 1 OR AS TIGHT AS POSSIBLE.  
 PRESSURE PAN READINGS:  
 RETURN 4.0  
 LIVING ROOM 5.4  
 KITCHEN 3.7  
 BEDROOM 3.6  
 BEDROOM 4.3  
 BATH ROOM 6.8  
 BEDROOM 2.0

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Insulation	Duct sealing (setup cost)	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Miscellaneous Supplies	Duct Sealing	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>							<input type="text"/>	<b>Sub Total</b>		<input type="text"/>

**Field Notes:**

**Measure 2 General Air Sealing**

**Components**

**Inspected**

**Comment** Initial Blower Door Reading: 1148@-50  
 Post Work Target of 840@-50 Must Be Met or Exceeded  
 Suggested Best Practice of Air Infiltration Reduction is to use two-part foam and appropriate materials to seal the penetrations and openings in the Sub-floor (accessible in the crawl space) and in the ceilings (accessible in the attic).  
 If applicable- rake back existing insulation and use two-part foam to seal the top plates of the walls. Use Rigid Foam Board and two-part foam to close and seal openings and penetrations of soffits, chases, and duct perimeters.

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Insulation	General air sealing (setup cost)	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Miscellaneous Supplies	Infiltration Reduction	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure 3 DWH Pipe Insulation**

**Components**

**Inspected**

**Comment** INSULATE THE FIRST 6 FEET OF HOT AND COLD-WATER PIPE OUT OF THE WATER HEATER AS PER THE TN SWS

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Insulation	DWH Pipe Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	DWH Pipe Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure 4 Refrigerator Replacement**

**Components**

**Inspected**

**Comment** Replace the Existing Refrigerator with a New 18 Cubic Foot Energy Star Refrigerator. Hinge the Door Appropriately.

Remove and Properly Dispose of the Old Refrigerator.

#	Material/Labour	Description/Comment	Unit	Estimated			Actual			
				Qty	Unit Cost	Total	Qty	Unit Cost	Total	
1	Refrigerators	Any - 18 CU FT	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure 5 DWH Tank Insulation**

**Components**

**Inspected**

**Comment** AS PER THE TN SWS- Wrap the 40 Gallon Electric Water Heater With R-10 or Better Insulation. Secure with Tape and Zip Ties.

#	Material/Labour	Description/Comment	Unit	Estimated			Actual			
				Qty	Unit Cost	Total	Qty	Unit Cost	Total	
1	Insulation	DWH Tank Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	DWH Tank Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure 6 CO Monitor is Needed**

**Components**

**Inspected**

**Comment** INSTALL A CO MONITOR AS PER THE TN SWS

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	CO Detector	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Labor	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure 7 Fix Other Water Heating Problem**

**Components**

**Inspected**

**Comment** INSTALL A JUNCTION BOX AT THE WIRE CONNECTIONS

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	Equipment	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Labor	Hour	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure 8**

**Heatpump -2 Ton / 24 KBtu/h (Split)**

**Components**

**Inspected**

**Comment**

REPLACE THE ELECTRIC FURNACE AND CENTRAL AIR CONDITIONER WITH A NEW 24 Kbtu/h HEAT PUMP- RETRO-FIT TO EXISTING DUCT-WORK SUPPLY HOME OWNER WITH 12 RETURN FILTERS

Mechanical permits will be required for all HVAC work, as per local code. All Heat pumps installed to be 15 SEER, 8.5 HSPF. All cooling equipment, ENERGY STAR labeled and shall be sized according to the latest editions of ACCA Manuals J and S .Specification of any type of heating unit shall be taken to include all connections, wiring, ducting, safety switches, thermostats, pad if existing does not fit new unit and all other work to provide a complete, Tight, efficient, balanced and operational system. All wiring shall be on separate circuits, wired from panel box or disconnects to HVAC unit by contractor. If installing a split system that does not have existing line set the cost should be included in bid to provide new line set. If leaving the existing line set the line is to be flushed and pressurized to insure no leakage. Include condensate pump, if situation requires. If installing a package unit, it is to include a four-sided shroud. All work to meet current code for city or county work is being performed. Must provide all warranty information with invoice. If unit warranty needs registered with factory contractor is to do this for client.

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Construction Materials/Hardware	Equipment	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Labor	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>							<input type="text"/>	<b>Sub Total</b>		<input type="text"/>

**Field Notes:**

**Measure 9 Install Bathroom Exhaust Fan (ASHRAE)**

**Components**

**Inspected**

**Comment** INSTALL A NEW TWO SPEED ASHRAE COMPLIANT FAN. SET TO 40 CFM CONTINUOUS. VENT TO THE OUTSIDE WITH A TRIM KIT AS PER THE TN SWS.

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Construction Materials/Hardware	Bathroom Exhaust Fan (ASHRAE)	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Labor	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure 10 PressureRelief Piping Needed**

**Components**

**Inspected**

**Comment** INSTALL A PRESSURE RELIEF PIPE EXTENSION AS PER THE TN SWS- EXTEND TO OUTSIDE OF THE FOUNDATION, TURN DOWN WITH AN ELBOW AND TERMINATE THE PIPE TO WITHIN 6" OF EXTERIOR GRADE.

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	Pressure relief piping	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Labor	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure 11 Smoke Detector is Needed**

**Components**

**Inspected**

**Comment** INSTALL SMOKE DETECTORS IN ALL BEDROOMS AND COMMON AREA (HALLWAY)

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	Smoke Detector	Each	4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Labor	Hour	4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

<b>Work Ordere Grand Total:</b>	<input type="text"/>	<b>Grand Total:</b>	<input type="text"/>
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