Work Order Bid (ID)

WORK ORDER INFORMATION

Work Order Name: WO/1003639/1
Work Order Type: Weatherization
Audit Name: 1002140

CLIENT INFORMATION

Client ID: 1003639
Alt. Client ID: C1003723SA101
County: Carter

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

1356 SQUARE FOOT RANCH BUILT ON A CRAWL SPACE IN 1998 WITH AN ASPHALT SHINGLE ROOF.
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 12/6/2019 BY RON CARLISLE (423) 736-0678
INITIAL BLOWER DOOR 1345 @-50
POST WORK TARGET OF 1017 @-50 MUST BE MET OR EXCEEDED

Measure 1 ***Vapor Barrier Needed (Basement/Crawlspace)*** **Components** **Inspected**

Comment INSTALL 6 MIL BLACK POLY VAPOR BARRIER AS PER THE TN SWS.
SEAL THE SEAMS WITH MASTIC.
LAP UP AND ATTACH TO THE WALLS AND PIERS

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety Items	Basement / crawlspace vapor barrier	SqFt	1560					
2	Labor	Labor	SqFt	1560					
Other Detail									

Measure Sub Total **Sub Total**

Field Notes:

Measure 2 ***Infiltration Redctn*** **Components** **Inspected**

Comment Initial Blower Door Reading: 1345 @-50
Post Work Target of 1017 @-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.

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Miscellaneous Supplies	Infiltration Reduction	Each	1					
Other Detail									

Measure Sub Total **Sub Total**

Field Notes:

Measure 3 **Attic Ins. R-30** **Components** A1 **Inspected**

Comment INCREASE THE EXISTING ATTIC INSULATION TO A CONSISTENT 14 INCH DEPTH WITH BLOWN CELLULOSE. FOLLOW THE TENNESSEE STANDARD WORK SPECIFICATIONS

All EXISTING electrical junction boxes will be flagged to be seen above the level of the insulation.
Open electrical junction boxes will have covers installed. Insulation dams and enclosures will be installed as required

Insulation will be adequately marked for depth a minimum of every 300 square feet of attic area.

108 LINEAR FEET OF BAFFLES NEEDED BETWEEN 2 X 4 TRUSSES @24” O.C. 5/12 PITCH

34 LINEAR FEET OF RIGID DAM MATERIAL 2" TALLER THAN THE INSULATION BETWEEN THE GARAGE AND LIVING SPACE ATTIC
THE ATTIC ACCESS IS LOCATED IN THE UNCONDITIONED GARAGE

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Insulation	Attic Insulation - Blown Cellulose - R-30	SqFt	1356					
2	Labor	Attic Insulation - Blown Cellulose - R-30	SqFt	1356					
Other Detail									
					Measure Sub Total			Sub Total	

Field Notes:

Measure 4 **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

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Insulation	DHW Pipe Insulation	Each	1					
2	Labor	DHW Pipe Insulation	Each	1					

Other Detail

Measure Sub Total **Sub Total**

Field Notes:

Measure 5 **Refrigerator Rplcmnt** **Components** **Inspected**

Comment Replace the Existing KITCHEN Refrigerator with a New 21 Cubic Foot Energy Star Refrigerator. Hinge the Door Appropriately.

Remove and Properly Dispose of the Old Refrigerator.

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Refrigerators	Any - 21 CU FT	Each	1					

Other Detail

Measure Sub Total **Sub Total**

Field Notes:

Measure 6 **Install/Replace Heatpump** **Components** HS1,AC1 **Inspected**

Comment Replace the Existing Heat Pump With a New 2 Ton Heat Pump- RETRO-FIT TO EXISTING DUCT-WORK ENSURING A TIGHT SYSTEM
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. 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.

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Heating Equipment	Heatpump - 36 kBtu/h Existing, Consult Manual J Data	Each	1					
2	Labor	Heatpump - 36 kBtu/h Existing, Consult Manual J Data	Each	1					

Other Detail

Measure Sub Total **Sub Total**

Field Notes:

Measure 7 **DWH Replacement** **Components** **Inspected**

Comment INSTALL LOUVERS IN THE UTILITY CLOSET TO PROVIDE ADEQUATE VENTILATION FOR THE HEAT PUMP OPERATION AS PER MANUFACTURER'S SPECIFICATIONS

REMOVE AND REPLACE THE 40 GALLON ELECTRIC WATER HEATER WITH A NEW 50 GALLON HEAT PUMP WATER HEATER. INSTALL AS PER THE TN SWS, WITH EXPANSION TANK AND PRESSURE RELIEF PIPE. DO NOT ADD TANK INSULATION TO THE NEW WATER HEATER.
INSTALL A CONDENSATE DRAIN LINE THAT TERMINATES IN A LOCATION DIRECTING WATER AWAY FROM THE HOUSE

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Hot Water Equipment	Any -	Each	1					
Other Detail									
					Measure Sub Total			Sub Total	

Field Notes:

Measure 8 **Floor Ins. R-19** **Components** F1 **Inspected**

Comment INSTALL R-19 FIBERGLASS BATTS IN BETWEEN THE 2 X 8 FLOOR JOISTS @ 16 inches O.C. AS PER THE TN SWS.

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Insulation	Floor Insulation - Fiberglass Batts - R-19	SqFt	1356					
2	Labor	Floor Insulation - Fiberglass Batts - R-19	SqFt	1356					

Other Detail

Measure Sub Total **Sub Total**

Field Notes:

Measure 9 **CO Monitor is Needed** **Components** **Inspected**

Comment INSTALL CO MONITORS AS PER THE TN SWS- ONE IN THE HOUSE, ONE IN THE GARAGE

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety Items	CO monitor	Each	2					
2	Labor	Labor	Each	2					

Other Detail

Measure Sub Total **Sub Total**

Field Notes:

Measure 10 ***Fix Improper Venting (Clothes Dryer)*** **Components** **Inspected**

Comment VENT THE CLOTHES DRYER AS PER THE TN SWS- INSULATE IN THE VENT PIPE IN UNCONDITIONED SPACES

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety Items	Equipment	Each	1					
2	Labor	Labor	Each	1					

Other Detail

Measure Sub Total **Sub Total**

Field Notes:

Measure 11 ***Fix Not Operational Bathroom Exhaust Fan*** **Components** **Inspected**

Comment REPLACE THE EXISTING BATH FAN/LIGHT COMBINATION WITH A NEW TWO SPEED ASHRAE COMPLIANT FAN/LIGHT COMBINATION . SET TO 60 CFM CONTINUOUS. VENT TO THE OUTSIDE WITH A TRIM KIT AS PER THE TN SWS.

**********INSTALL A 6' VENT PIPE TO ENSURE PROPER VENTILATION**********

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety Items	Equipment	Each	1					
2	Labor	Labor	Hour	1					

Other Detail

Measure Sub Total **Sub Total**

Field Notes:

Measure 12 **Fix Recessed Lights Present (Attic)** **Components** **Inspected**

Comment INSTALL FIRE PROOF COVERS OVER THE RECESSED CAN LIGHTS AS PER THE TN SWS. PRIOR TO BLOWING ATTIC INSULATION.

					Estimated			Actual	
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety Items	Equipment	Each	1					
2	Labor	Labor	Hour	1					
Other Detail									

Measure Sub Total | Sub Total

Field Notes:

Measure 13 **Fix Wiring Problems (Walls)** **Components** **Inspected**

Comment REPLACE THE MISSING SWITCH PLATE COVER- LOCATED IN THE UTILITY ROOM

					Estimated			Actual	
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety Items	Equipment	Each	1					
2	Labor	Labor	Hour	1					
Other Detail									

Measure Sub Total | Sub Total

Field Notes:

Measure 14 ***Smoke Detector is Needed*** **Components** **Inspected**

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

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety Items	Smoke detector	Each	5					
2	Labor	Labor	Each	5					

Other Detail

Measure Sub Total **Sub Total**

Field Notes:

Measure 15 ***Fix Improper Venting of Bathroom Exhaust Fan*** **Components** **Inspected**

Comment VENT THE BATH FAN TO THE OUTSIDE WITH A TRIM KIT- AS PER THE TN SWS

				Estimated			Actual		
#	Material/Labour	Description/Comment	Unit	Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety Items	Fix Improper Venting of Bathroom Exhaust Fan	Each	1					
2	Labor	Labor	Each	1					

Other Detail

Measure Sub Total **Sub Total**

Field Notes:

Work Ordere Grand Total: **Grand Total:**