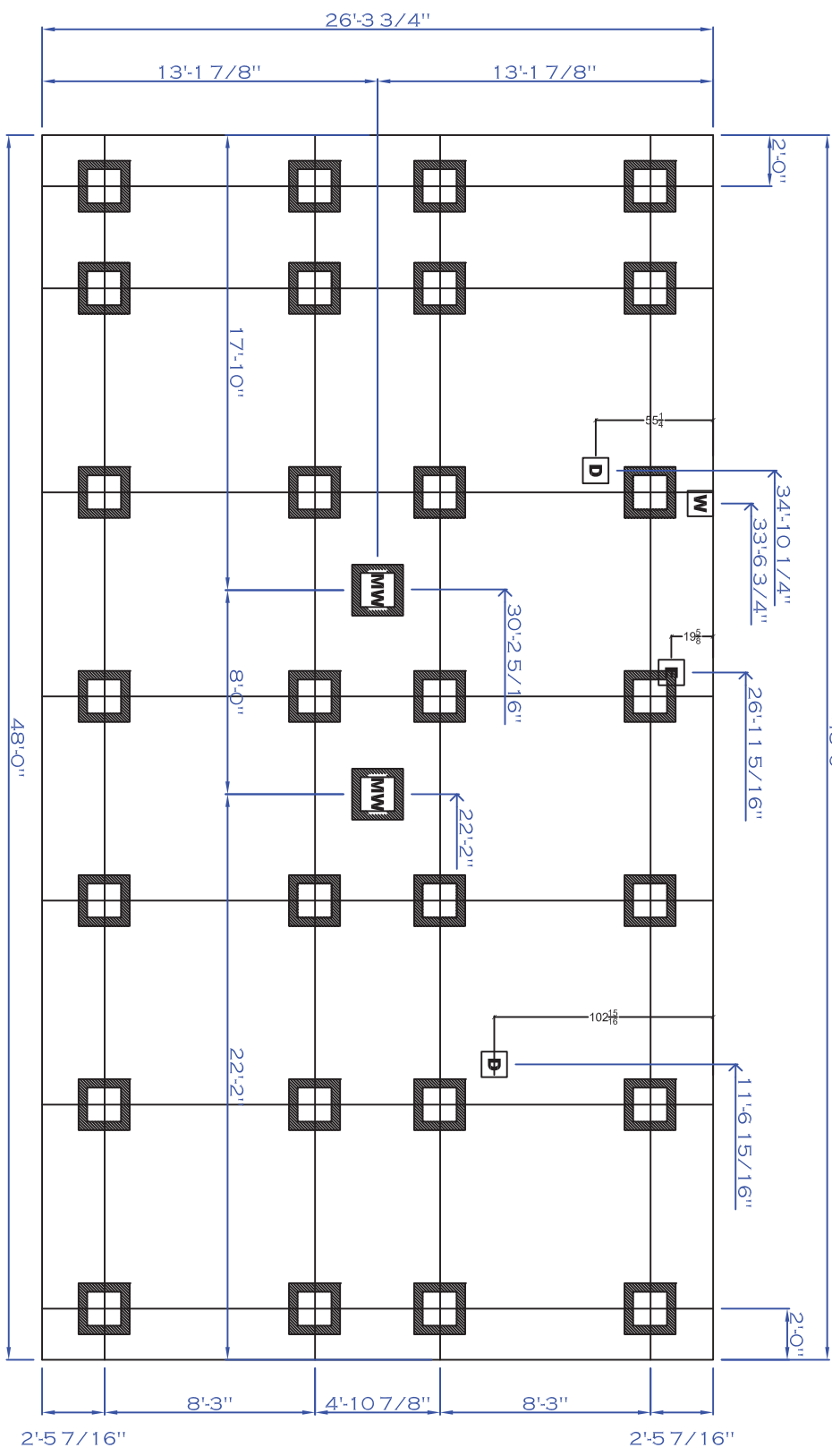








<b>GILES HOMES</b>		Model #	MOEFL#	Drawn #
48 S BROAD STREET HAZLETT, IN 47828		Product Code	28X48	1/14/2024 / DOE
Product Manager: HAZLETT		Part No.	28X48	
<b>ELEVATION</b>				M46067



\*THIS FOOTER DIAGRAM IS FOR STANDARD PRODUCT ONLY  
 \*FOR PIER SPACING REFER TO SET UP MANUAL

-  **MARRIAGE WALL PIER**
-  **WATER INLET**
-  **DRAIN**
-  **ELECTRICAL DROP**
-  **DOOR PIER**
-  **REGULAR PIER**

LEGEND AND SET UP KIT.

VTR - VENT THRU ROOF

(MV) - MECHANICAL VENT

30(3) -3" PIPE

0(2) -2" PIPE

30(1) -1 1/2" PIPE

0 A -3"X2" REDUCER

1 B -3"X1 1/2" REDUCER

0 C -3" ELTL 90°

0 D -3" ELL 45°

2 E -3" LTTY

4 F -3" COUPLING

0 G -3" X 3" X 3" X 2" X 2" ST

0 H -3" X 3" X 2" X 2" ST

0 I -3" X 3" X 2" ST

0 J -3" 3 WAY ELL

0 K -2"X1 1/2" REDUCER

0 L -2" ELTL 90°

0 M -2" ELL 45°

0 N -2" LTTY

0 O -2" COUPLING

0 P -2" X 1 1/2" X 1 1/2" ST

0 Q -2" 3 WAY ELL

1 R -1 1/2" ELTL 90°

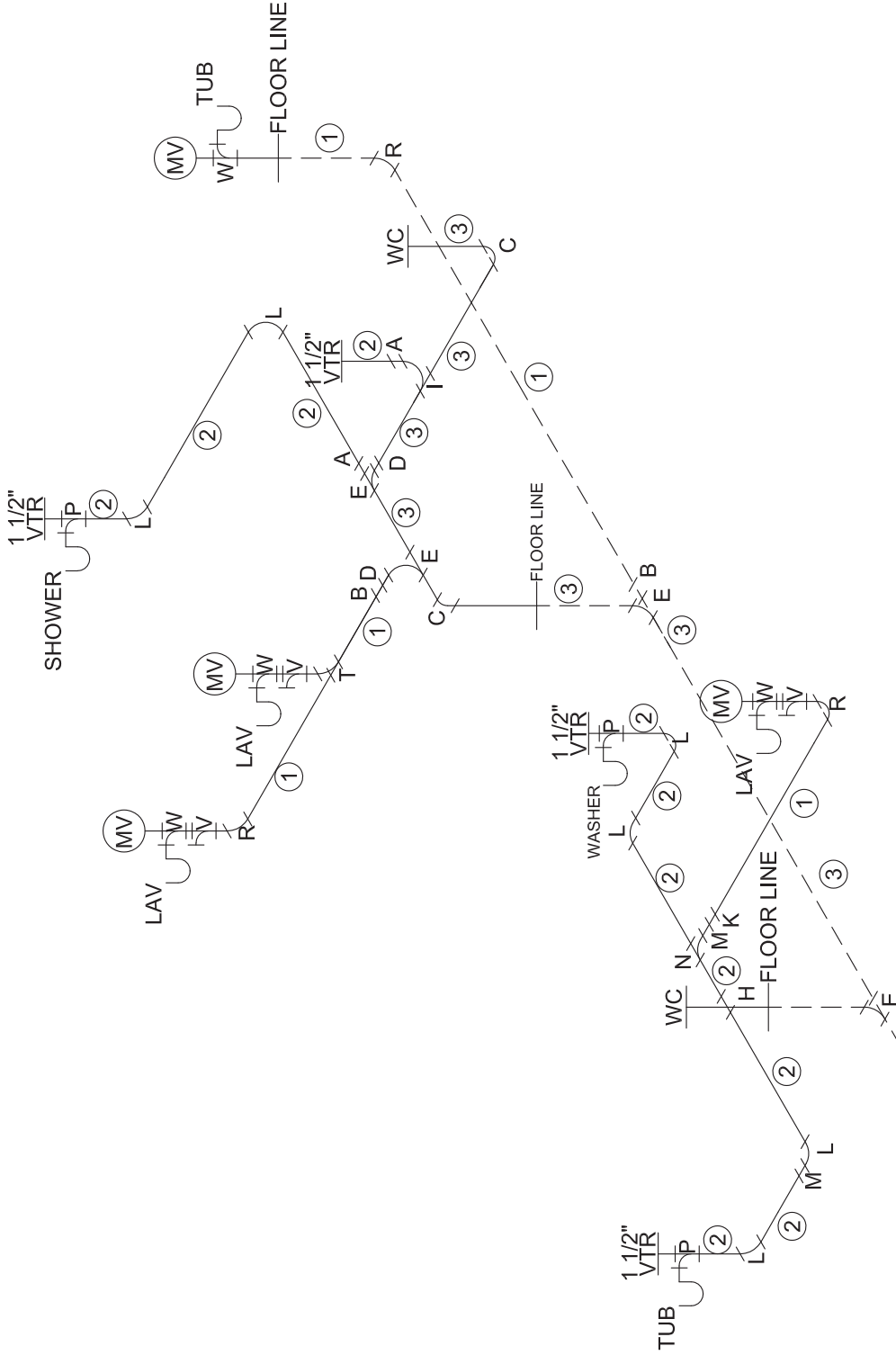
0 S -1 1/2" ELL 45°

0 T -1 1/2" LTTY

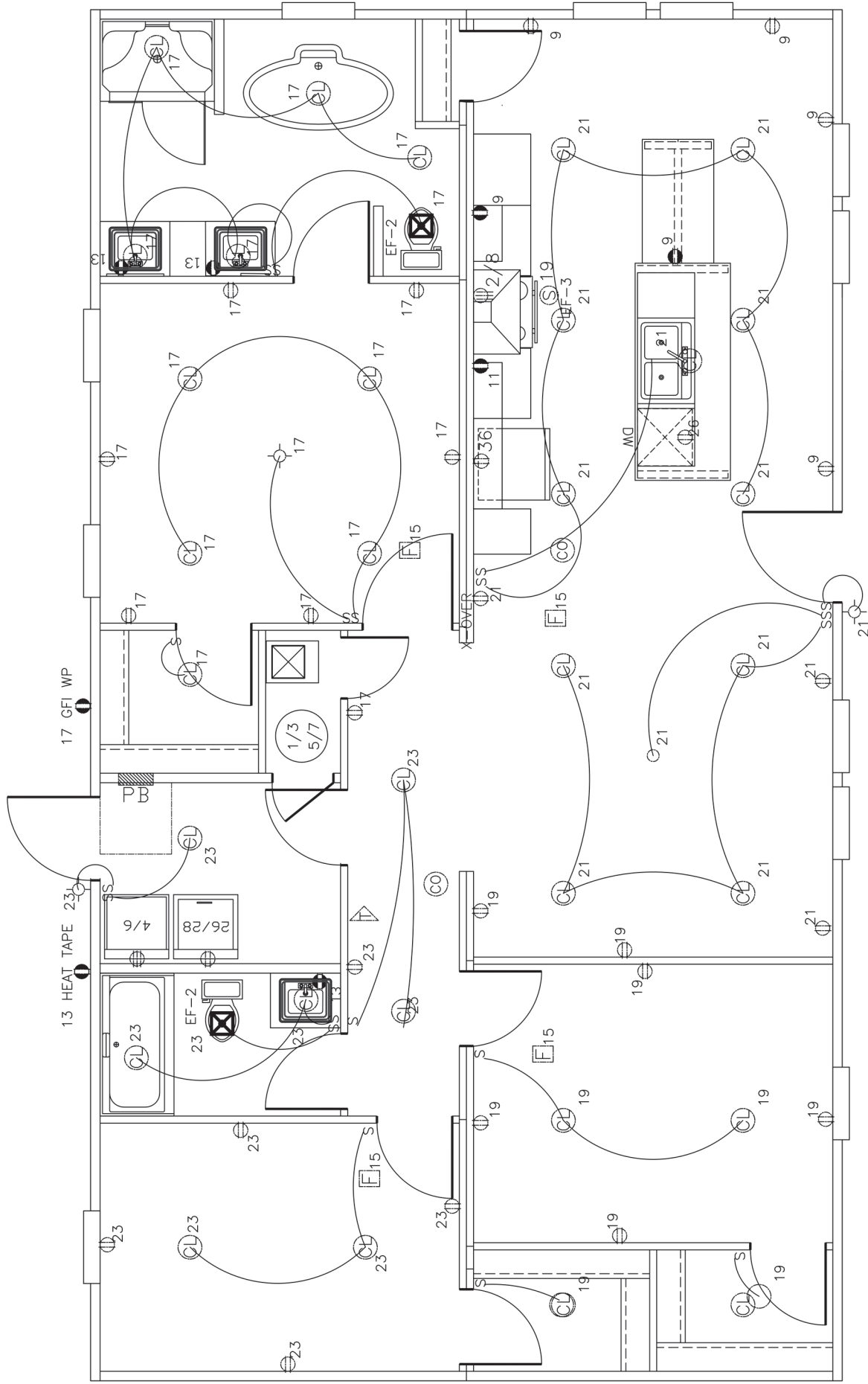
0 U -1 1/2" COUPLING

0 V -1 1/2" CLEAN OUT

0 W -1 1/2" SAN TEE

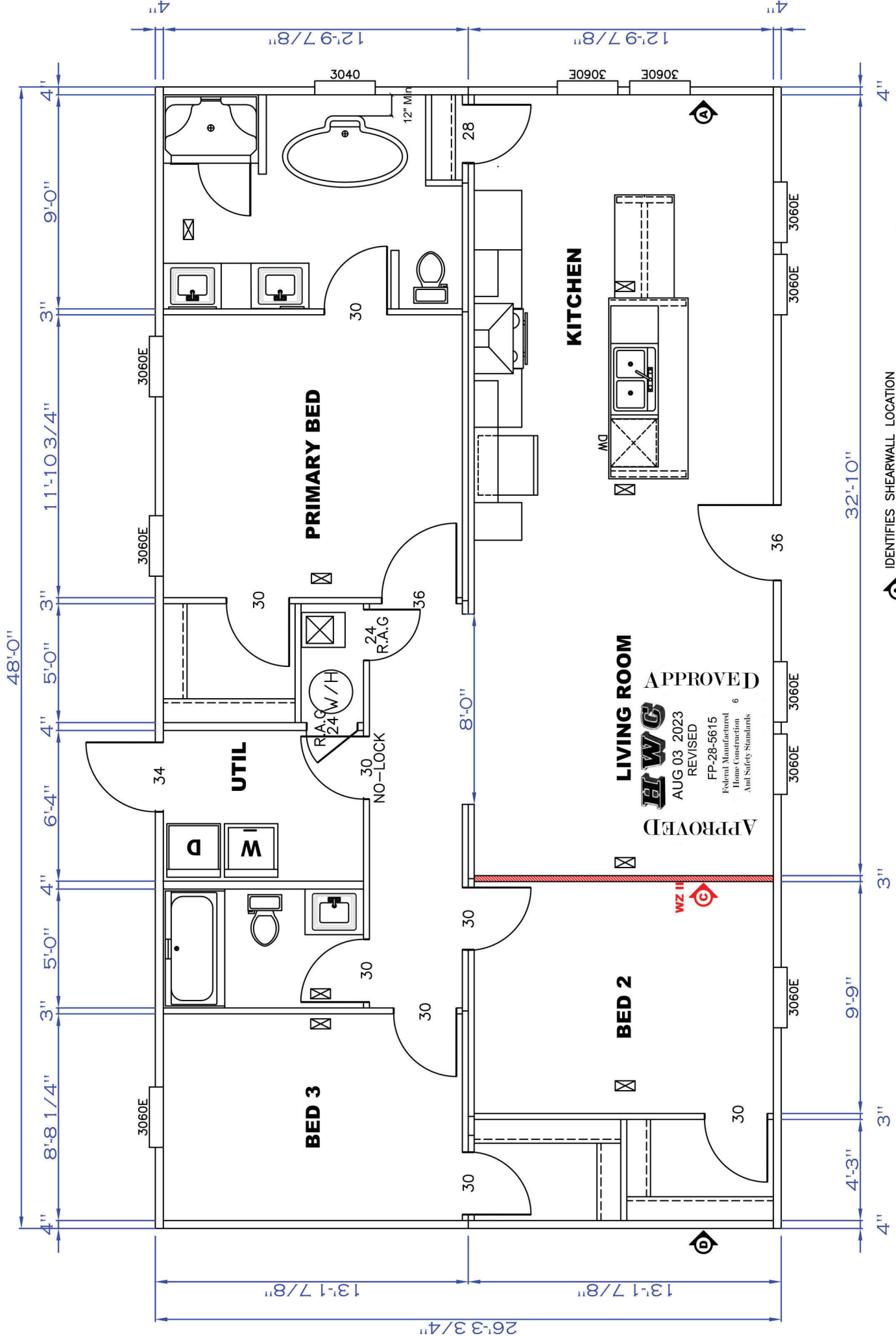


<b>GILES HOMES</b> 405 S. BROAD ST., NEW TAZEWELL, TN 37824 Product Designer: HARVILLED	Model #:	MODEL#	Drawing #:
	Date: 2/1/23	Scale: N/A	M46067
Product: 28X48			
DWG		M46067	
		.5	



**APPROVED**  
**IRWG**  
REVISED  
24 APR 2023  
FP-28-5615  
Federal Manufactured  
Home Construction  
And Safety Standards

<b>GILES HOMES</b>	Model #:	MODEL#	Drawing #:
405 S. BROAD ST. NEW TAZEWELL, TN 37825	Date:	4/5/23	M46067 DOE
Product Designer: HARVILLED	28X48	28X48	
REV: 1, 2, 3			
<b>ELEC. SUB</b>			M46067
			.7



**GILES HOMES**  
 406 S. BROAD ST. NEW TAZEWELL, TN 37825  
 Product Designer: HARVILLED

Model #: M46067  
 Date: 4/5/23  
 Scale: N/A

28X48  
 28X48

**FLOOR PLAN SUB**

M46067 .1

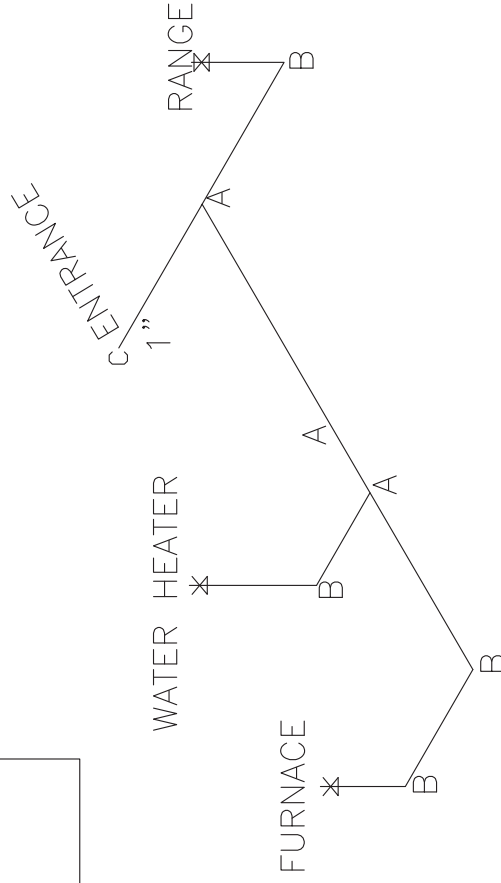
**IDENTIFIES SHEARWALL LOCATION**

**LIVING ROOM APPROVED**  
**BLWG**  
 AUG 03 2023  
 REVISED  
 FP-28-5615  
 Federal Manufactured Home Construction And Safety Standards

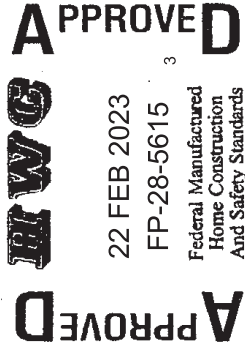
\\946file01\D\CAD SERVER\C\GilesEngine0508\2021-MODELS\28x48-NEW\M46067 DOE.dwg, 8/3/2023 7:20:47 AM

LEGEND		APPLIANCE	BTU's	RATINGS	MAX. INPUT
SYM	FITTINGS	FURNACE	77,000		BTU'S
A	TEE	W/H	36000		BTU'S
B	90 ELL	RANGE	56,000		BTU'S
X	VALVE				
C	CAP				

MDL = 40'

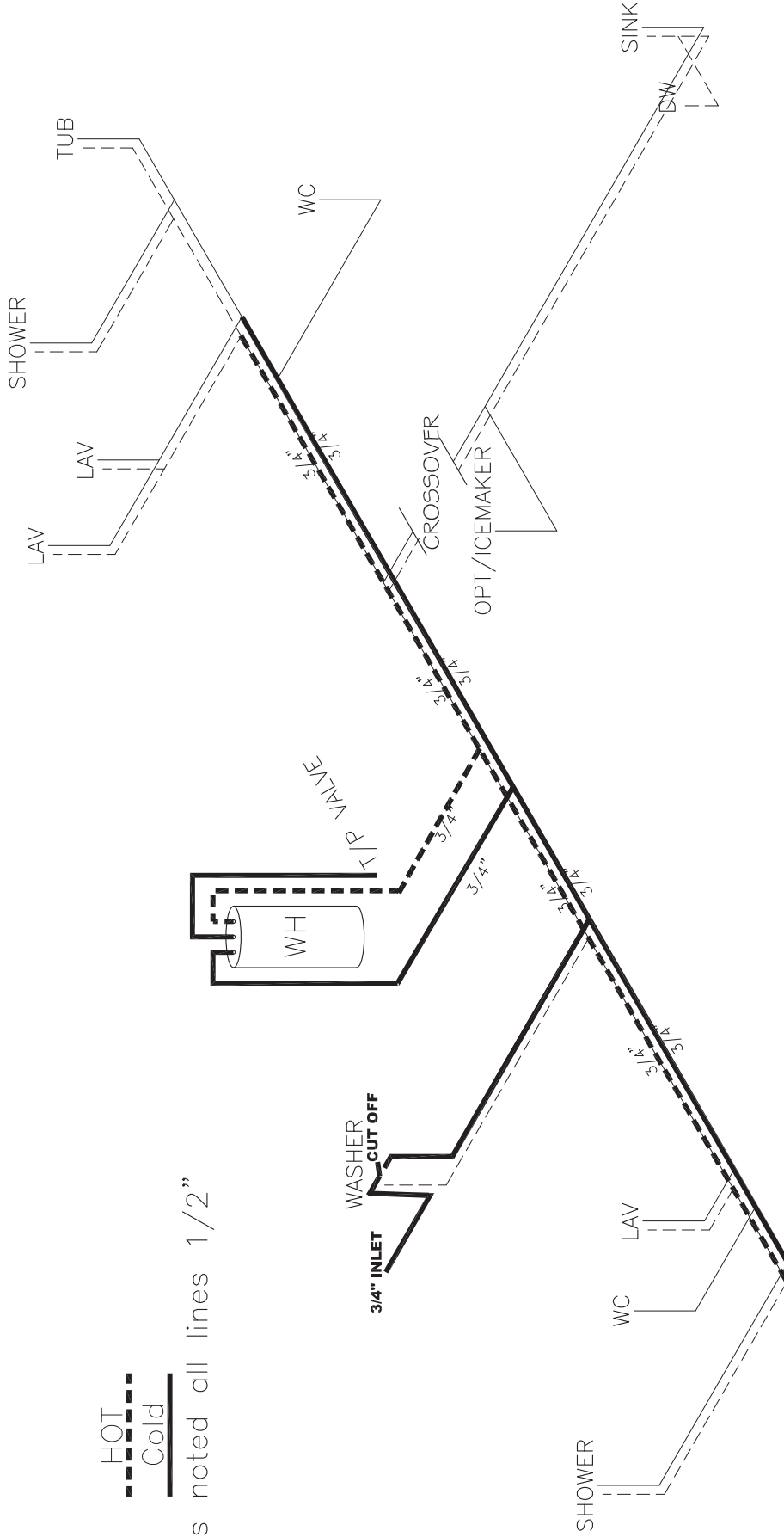


- NOTES:
- 1) ALL PIPE IS 3/4" I.D.CAST  
(EXCEPT WHERE NOTED OTHERWISE)
  - 2) MDL=MAX. DETERMINED LENGTH OF PIPE
  - 3) FITTING MAY BE ADDED OR SUBTRACTED TO TRAVERSE VARIATIONS IN AXLE QUANTITY, PLACEMENT, AND FRAME TYPE.
  - 4) INLET LOCATION MAY VARY TO STAY WITHIN MAX. DETERMINED LENGTH



--- HOT  
 --- Cold

Unless noted all lines 1/2"



**APPROVED**  
**WGC**  
 22 FEB 2023  
 FP-28-5615  
 Federal Manufactured  
 Home Construction  
 And Safety Standards

<b>GILES HOMES</b>		Model #:	MODEL#	Drawing #:
405 S. BROAD ST. NEW TAZEWELL TN 37825		Date:	2/10/23	M46067
Product Designer: HARVILLED		28X48		
<b>PRESSURE PLUMB</b>		M46067		
		.5		

**Model # M46067**

**Giles Homes Light and Vent Chart**

Room	Floor Area SQFT	Window(s)	Glass Area	% of Floor	Artificial Light	Vent Area	% of Floor	Artificial Vent	Min. Door
Living Room	182	3060 x2	19.8	10.88%		10.4	5.71%		36
Kitchen / DR	219	3060 X4	39.6	18.08%	X	20.8	9.50%	X	36
P-BED	152	3060 X2	19.8	13.03%		10.4	6.84%		28
Bedroom 2	123	3060	9.9	8.05%		5.2	4.23%		24
Bedroom 3	110	3060	9.9	9.00%		5.2	4.73%		24
P-BATH	106	3040	6.3	5.94%	X	3.3	3.11%	X	24
Bath 2	42	0			X			X	24
Utility	46	0			X			X	24

\* (X) Artificial Light and Vent has been provided for this room

\*\* Note: All window sizes are minimum requirements for rooms. And windows may be added as long as heat loss allows and/or is documented on the floor plan



# Description of Materials

U.S. Department of Housing  
and Urban Development  
Department of Veterans Affairs  
Farmers Home Administration

OMB Control No. 2502-0313  
(exp. 3/31/2024)

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This agency may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

The National Housing Act (12 USC 1703) authorizes insuring financial institutions against default losses on single family mortgages. HUD must evaluate the acceptability and value of properties to be insured. The information collected here will be used to determine if proposed construction meets regulatory requirements and if the property is suitable for mortgage insurance. Response to this information collection is mandatory. No assurance of confidentiality is provided.

Proposed Construction  Under Construction No. \_\_\_\_\_ (To be inserted by HUD, VA or FmHA)  
Property address (Include City and State)

Name and address of Mortgagor or Sponsor	Name and address of Contractor or Builder Giles Homes 405 South Broad Street New Tazewell TN 37825
--	---

### Instructions

- For additional information on how this form is to be submitted, number of copies, etc., see the instructions applicable to the HUD Application for Mortgage Insurance, VA Request for Determination of Reasonable Value, or FmHA Property Information and Appraisal Report, as the case may be.
- Describe all materials and equipment to be used, whether or not shown on the drawings, by marking an X in each appropriate check-box and entering the information called for each space. If space is inadequate, enter "See misc." and describe under item 27 or on an attached sheet. **The use of paint containing more than the percentage of lead by weight permitted by law is prohibited.**
- Work not specifically described or shown will not be considered unless required, then the minimum acceptable will be assumed. Work exceeding minimum requirements cannot be considered unless specifically described.
- Include no alternates, "or equal" phrases, or contradictory items. (Consideration of a request for acceptance of substitute materials or equipment is not thereby precluded.)
- Include signatures required at the end of this form.
- The construction shall be completed in compliance with the related drawings and specifications, as amended during processing. The specifications include this Description of Materials and the applicable Minimum Property Standards.

### 1. Excavation

Bearing soil, type \_\_\_\_\_

### 2. Foundations

Footings concrete mix \_\_\_\_\_ strength psi \_\_\_\_\_ Reinforcing \_\_\_\_\_

Foundation wall material \_\_\_\_\_ Reinforcing \_\_\_\_\_

Interior foundation wall material \_\_\_\_\_ Party foundation wall \_\_\_\_\_

Columns material and sizes \_\_\_\_\_ Piers material and reinforcing \_\_\_\_\_

Girders material and sizes \_\_\_\_\_ Sills material \_\_\_\_\_

Basement entrance areaway \_\_\_\_\_ Window areaways \_\_\_\_\_

Waterproofing \_\_\_\_\_ Footing drains \_\_\_\_\_

Termite protection \_\_\_\_\_

Basementless space ground cover \_\_\_\_\_ insulation \_\_\_\_\_ foundation vents \_\_\_\_\_

Special foundations \_\_\_\_\_

Additional information

### 3. Chimneys

Material \_\_\_\_\_ Prefabricated (make and size) \_\_\_\_\_

Flue lining material \_\_\_\_\_ Heater flue size \_\_\_\_\_ Fireplace flue size \_\_\_\_\_

Vents (material and size) gas or oil heater \_\_\_\_\_ water heater \_\_\_\_\_

Additional information

Chimney Kit 58621

### 4. Fireplaces

Type  solid fuel  gas-burning  circulator (make and size) \_\_\_\_\_ Ash dump and clean-out \_\_\_\_\_

Fireplace facing \_\_\_\_\_ lining \_\_\_\_\_ hearth 103217 \_\_\_\_\_ mantel 1032918 \_\_\_\_\_

Additional information

Fireplace front 1032921

**5. Exterior Walls**

Wood frame wood grade, and species #3 SPF  Corner bracing Building paper or felt \_\_\_\_\_  
 Sheathing OSB thickness 7/16" width 48"  solid  spaced \_\_\_\_\_ o.c.  diagonal \_\_\_\_\_  
 Siding Horizontal grade Blog type Vinyl size \_\_\_\_\_ exposure \_\_\_\_\_ fastening Stapled  
 Shingles Fiberglass grade #235 type GAP size 36 exposure 5 1/2" fastening Stapled  
 Stucco \_\_\_\_\_ thickness \_\_\_\_\_ Lath \_\_\_\_\_ weight \_\_\_\_\_ lb.  
 Masonry veneer \_\_\_\_\_ Sills \_\_\_\_\_ Lintels \_\_\_\_\_ Base flashing \_\_\_\_\_  
 Masonry  solid  faced  stuccoed total wall thickness \_\_\_\_\_ facing thickness \_\_\_\_\_ facing material \_\_\_\_\_  
 Backup material \_\_\_\_\_ thickness \_\_\_\_\_ bonding \_\_\_\_\_  
 Door sills \_\_\_\_\_ Window sills \_\_\_\_\_ Lintels \_\_\_\_\_ Base flashing \_\_\_\_\_  
 Interior surfaces dampproofing, \_\_\_\_\_ coats of \_\_\_\_\_ furring \_\_\_\_\_  
 Additional information \_\_\_\_\_  
 Exterior painting material \_\_\_\_\_ number of coats \_\_\_\_\_  
 Gable wall construction  same as main walls  other construction \_\_\_\_\_

**6. Floor Framing**

Joists wood, grade, and species #2 SPF other 16" bridging \_\_\_\_\_ anchors \_\_\_\_\_  
 Concrete slab  basement floor  first floor  ground supported  self-supporting mix \_\_\_\_\_ thickness \_\_\_\_\_  
 reinforcing \_\_\_\_\_ insulation \_\_\_\_\_ membrane \_\_\_\_\_  
 Fill under slab material \_\_\_\_\_ thickness \_\_\_\_\_  
 Additional information Double 2x6 @ @shearwalls nailed and glued

**7. Subflooring (Describe underflooring for special floors under item 21)**

Material grade and species 7/16" OSB size \_\_\_\_\_ type \_\_\_\_\_  
 Laid  first floor  second floor  attic \_\_\_\_\_ sq. ft.  diagonal  right angles  
 Additional information T&G OSB glued and nailed, sanded @ seams, water proofing in wet areas

**8. Finish Flooring (Wood only. Describe other finish flooring under item 21)**

Location	Rooms	Grade	Species	Thickness	Width	Bldg. Paper	Finish
First floor							
Second floor							
Attic floor	sq. ft.						

Additional information \_\_\_\_\_

**9. Partition Framing**

Studs wood, grade, and species SPF #2 and #3 size and spacing 2x3 and 2x4 Other \_\_\_\_\_  
 Additional information \_\_\_\_\_

**10. Ceiling Framing**

Joists wood, grade, and species purchased truss Other \_\_\_\_\_ Bridging \_\_\_\_\_  
 Additional information \_\_\_\_\_

**11. Roof Framing**

Rafters wood, grade, and species purchased truss Roof trusses (see detail) grade and species \_\_\_\_\_  
 Additional information \_\_\_\_\_

**12. Roofing**

Sheathing wood, grade, and species OSB 7/16"  solid  spaced \_\_\_\_\_ o.c.  
 Roofing \_\_\_\_\_ grade \_\_\_\_\_ size \_\_\_\_\_ type \_\_\_\_\_  
 Underlay \_\_\_\_\_ weight or thickness \_\_\_\_\_ size \_\_\_\_\_ fastening \_\_\_\_\_  
 Built-up roofing \_\_\_\_\_ number of plies \_\_\_\_\_ surfacing material \_\_\_\_\_  
 Flashing material \_\_\_\_\_ gage or weight \_\_\_\_\_  gravel stops  snow guards  
 Additional information \_\_\_\_\_

**13. Gutters and Downspouts**

Gutters material \_\_\_\_\_ gage or weight 1 1/2" size \_\_\_\_\_ shape \_\_\_\_\_  
Downspouts material \_\_\_\_\_ gage or weight \_\_\_\_\_ size \_\_\_\_\_ shape \_\_\_\_\_ number \_\_\_\_\_  
Downspouts connected to  Storm sewer  sanitary sewer  dry-well  Splash blocks material and size \_\_\_\_\_  
Additional information \_\_\_\_\_

**14. Lath and Plaster**

Lath  walls  ceilings material \_\_\_\_\_ weight or thickness \_\_\_\_\_ Plaster coats \_\_\_\_\_ finish \_\_\_\_\_  
Dry-wall  walls  ceilings material \_\_\_\_\_ thickness \_\_\_\_\_ finish \_\_\_\_\_  
Joint treatment \_\_\_\_\_

**15. Decorating (Paint, wallpaper, etc.)**

Rooms	Wall Finish Material and Application	Ceiling Finish Material and Application
Kitchen		
Bath		
Other		

Additional information \_\_\_\_\_

**16. Interior Doors and Trim**

Doors type Hollow core material Masonite board thickness 2"  
Door trim type \_\_\_\_\_ material \_\_\_\_\_ Base type \_\_\_\_\_ material \_\_\_\_\_ size \_\_\_\_\_  
Finish doors \_\_\_\_\_ trim \_\_\_\_\_  
Other trim (item, type and location) \_\_\_\_\_  
Additional information \_\_\_\_\_

**17. Windows**

Windows type Clayton Supply make \_\_\_\_\_ material \_\_\_\_\_ sash thickness \_\_\_\_\_  
Glass grade \_\_\_\_\_  sash weights  balances, type \_\_\_\_\_ head flashing \_\_\_\_\_  
Trim type \_\_\_\_\_ material \_\_\_\_\_ Paint \_\_\_\_\_ number coats \_\_\_\_\_  
Weatherstripping type \_\_\_\_\_ material \_\_\_\_\_ Storm sash, number \_\_\_\_\_  
Screens  full  half type \_\_\_\_\_ number \_\_\_\_\_ screen cloth material \_\_\_\_\_  
Basement windows type \_\_\_\_\_ material \_\_\_\_\_ screens, number \_\_\_\_\_ Storm sash, number \_\_\_\_\_  
Special windows \_\_\_\_\_  
Additional information \_\_\_\_\_

**18. Entrances and Exterior Detail**

Main entrance door material Elixir width \_\_\_\_\_ thickness \_\_\_\_\_ Frame material \_\_\_\_\_ thickness \_\_\_\_\_  
Other entrance doors material \_\_\_\_\_ width \_\_\_\_\_ thickness \_\_\_\_\_ Frame material \_\_\_\_\_ thickness \_\_\_\_\_  
Head flashing \_\_\_\_\_ Weatherstripping type \_\_\_\_\_ saddles \_\_\_\_\_  
Screen doors thickness \_\_\_\_\_ number \_\_\_\_\_ screen cloth material \_\_\_\_\_ Storm doors thickness \_\_\_\_\_ number \_\_\_\_\_  
Combination storm and screen doors thickness \_\_\_\_\_ number \_\_\_\_\_ screen cloth material \_\_\_\_\_  
Shutters  hinged  fixed Railings \_\_\_\_\_ Attic louvers \_\_\_\_\_  
Exterior millwork grade and species \_\_\_\_\_ Paint \_\_\_\_\_ number coats \_\_\_\_\_  
Additional information \_\_\_\_\_

**19. Cabinets and Interior Detail**

Kitchen cabinets, wall units material 1/2" duracraft lineal feet of shelves \_\_\_\_\_ shelf width \_\_\_\_\_  
Base units material \_\_\_\_\_ counter top \_\_\_\_\_ edging \_\_\_\_\_  
Back and end splash \_\_\_\_\_ Finish of cabinets \_\_\_\_\_ number coats \_\_\_\_\_  
Medicine cabinets make \_\_\_\_\_ model \_\_\_\_\_  
Other cabinets and built-in furniture \_\_\_\_\_  
Additional information \_\_\_\_\_

**20. Stairs**

Stair	Treads		Risers		Strings		Handrail		Balusters	
	Material	Thickness	Material	Thickness	Material	Size	Material	Size	Material	Size
Basement										
Main										
Attic										

Disappearing make and model number \_\_\_\_\_

Additional information \_\_\_\_\_

**21. Special Floors and Wainscot (Describe Carpet as listed in Certified Products Directory)**

Floors	Location	Material, Color, Border, Sizes, Gage, Etc.	Threshold Material	Wall Base Material	Underfloor Material
		Kitchen	Congo Liam		
	Bath	Congo Liam			

Wainscot	Location	Material, Color, Border, Cap. Sizes, Gage, Etc.	Height	Height Over Tub	Height in Showers (From Floor)
		Bath			

Additional information \_\_\_\_\_

**22. Plumbing**

Fixture	Number	Location	Make	MFR's Fixture Identification No.	Size	Color
Sink	1	Kitchen			33"x19"x6"	Steel
Lavatory	2	Bath			22"x14"	Plastic
Water closet	2	Bath			Single Bowl	
Bathtub	2	Bath			60"	Fiberglass
Shower over tub						
Stall shower						
Laundry trays						

Bathroom accessories  Recessed material \_\_\_\_\_ number \_\_\_\_\_  Attached material \_\_\_\_\_ number \_\_\_\_\_

Additional information \_\_\_\_\_

Curtain rod  Door  Shower pan material 1 pc fiberglass \* (Show and describe individual system in complete detail in separate drawings and specifications according to requirements.)

Water supply  public  community system  individual (private) system\*

Sewage disposal  public  community system  individual (private) system\*

House drain (inside)  cast iron  tile  other ABS House sewer (outside)  cast iron  tile  other \_\_\_\_\_

Water piping  galvanized steel  copper tubing  other PEX Sill cocks, number \_\_\_\_\_

Domestic water heater type Heat Pump make and model Rheem heating capacity \_\_\_\_\_ gph. 100° rise.

Storage tank material \_\_\_\_\_ capacity 40 or 50 gallons

Gas service  utility company  liq. pet. gas  other \_\_\_\_\_  Gas piping  cooking  house heating

Footing drains connected to  storm sewer  sanitary sewer  dry well  sump pump make and model \_\_\_\_\_ capacity \_\_\_\_\_ discharges into \_\_\_\_\_

Additional information \_\_\_\_\_

**23. Heating**

Hot water  Steam  Vapor  One-pipe system  Two-pipe system  
 Radiators  Convectors  Baseboard radiation Make and model Carrier Smart Comfort  
 Radiant panel  floor  wall  ceiling Panel coil material \_\_\_\_\_  
 Circulator  Return pump Make and model \_\_\_\_\_ capacity \_\_\_\_\_ gpm.  
Boiler make and model \_\_\_\_\_ Output \_\_\_\_\_ Btuh. net rating \_\_\_\_\_ Btuh.

Additional information  Down flow

Warm air  Gravity  Forced Type of system \_\_\_\_\_  
Duct material supply \_\_\_\_\_ return \_\_\_\_\_ Insulation \_\_\_\_\_ thickness \_\_\_\_\_  Outside air intake  
Furnace: make and model \_\_\_\_\_ Input \_\_\_\_\_ Btuh. output \_\_\_\_\_ Btuh.

Additional information

Space heater  floor furnace  wall heater Input \_\_\_\_\_ Btuh. output \_\_\_\_\_ Btuh. number units \_\_\_\_\_  
Make, model \_\_\_\_\_

Additional information

Controls make and types \_\_\_\_\_

Additional information

Fuel:  Coal  oil  gas  liq. pet. gas  electric  other \_\_\_\_\_ storage capacity \_\_\_\_\_

Additional information

Firing equipment furnished separately  Gas burner, conversion type  Stoker hopper feed  bin feed  
Oil burner  pressure atomizing  vaporizing \_\_\_\_\_  
Make and model \_\_\_\_\_

Control \_\_\_\_\_

Additional information

Electric heating system type \_\_\_\_\_ Input \_\_\_\_\_ watts @ \_\_\_\_\_ volts output \_\_\_\_\_ Btuh.

Additional information

Ventilating equipment  attic fan, make and model \_\_\_\_\_ capacity \_\_\_\_\_ cfm.  
 kitchen exhaust fan, make and model \_\_\_\_\_

Other heating, ventilating, or cooling equipment \_\_\_\_\_

Additional information

**24. Electric Wiring**

Service  overhead  underground Panel  fuse box  circuit-breaker make \_\_\_\_\_ AMP's \_\_\_\_\_ No. circuits \_\_\_\_\_  
Wiring  conduit  armored cable  nonmetallic cable  knob and tube  other \_\_\_\_\_  
Special outlets  range  water heater  other \_\_\_\_\_  
 Doorbell  Chimes  Push-button locations \_\_\_\_\_

Additional information

**25. Lighting Fixtures**

Total number of fixtures \_\_\_\_\_ Total allowance for fixtures, typical installation, \$ \_\_\_\_\_

Nontypical installation \_\_\_\_\_

Additional information

**26. Insulation**

Location	Thickness	Material, Type, and Method of Installation	Vapor Barrier
Roof	38	Blown	
Ceiling			
Wall	13 or 16	Batt	Kraft Back
Floor	22, 27 or 33	Rolled	

**27. Miscellaneous:** (Describe any main dwelling materials, equipment, or construction items not shown elsewhere; or use to provide additional information where the space provided was inadequate. Always reference by item number to correspond to numbering used on this form.)

**Hardware** (make, material, and finish.)

**Special Equipment** (State material or make, model and quantity. Include only equipment and appliances which are acceptable by local law, custom and applicable FHA standards. Do not include items which, by established custom, are supplied by occupant and removed when he vacates premises or chattles prohibited by law from becoming realty.)

**Porches**

**Terraces**

**Garages**

**Walks and Driveways**

Driveway width \_\_\_\_\_ base material \_\_\_\_\_ thickness \_\_\_\_\_ surfacing material \_\_\_\_\_ thickness \_\_\_\_\_  
 Front walk width \_\_\_\_\_ material \_\_\_\_\_ thickness \_\_\_\_\_ Service walk width \_\_\_\_\_ material \_\_\_\_\_ thickness \_\_\_\_\_  
 Steps material \_\_\_\_\_ treads \_\_\_\_\_ risers \_\_\_\_\_ Cheek walls \_\_\_\_\_

**Other Onsite Improvements**

(Specify all exterior onsite improvements not described elsewhere, including items such as unusual grading, drainage structures, retaining walls, fence, railings, and accessory structures.)

**Landscaping, Planting, and Finish Grading**

Topsoil \_\_\_\_\_ thick  front yard  side yards  rear yard to \_\_\_\_\_ feet behind main building  
 Lawns (seeded, sodded, or sprigged)  front yard \_\_\_\_\_  side yards \_\_\_\_\_  rear yard \_\_\_\_\_  
 Planting  as specified and shown on drawings  as follows:  
 \_\_\_\_\_ Shade trees deciduous \_\_\_\_\_ caliper \_\_\_\_\_ Evergreen trees \_\_\_\_\_ to \_\_\_\_\_ B & B  
 \_\_\_\_\_ Low flowering trees deciduous \_\_\_\_\_ to \_\_\_\_\_ Evergreen shrubs \_\_\_\_\_ to \_\_\_\_\_ B & B  
 \_\_\_\_\_ High-growing shrubs deciduous \_\_\_\_\_ to \_\_\_\_\_ Vines, 2-year \_\_\_\_\_  
 \_\_\_\_\_ Medium-growing shrubs deciduous \_\_\_\_\_ to \_\_\_\_\_ Other \_\_\_\_\_  
 \_\_\_\_\_ Low-growing shrubs deciduous \_\_\_\_\_ to \_\_\_\_\_

**Identification**—This exhibit shall be identified by the signature of the builder, or sponsor, and/or the proposed mortgagor if the latter is known at the time of application.

Date (mm/dd/yyyy) 10/13/2023 Signature \_\_\_\_\_

Signature \_\_\_\_\_

**CMH Inc.**  
**SHEARWALL DESIGN - HUD**

**APPROVED** **HWC** **APPROVED**  
 22 FEB 2023  
 FP-28-5615  
 Federal Manufactured  
 Home Construction  
 And Safety Standards

**Model # M46067**

Box Width = 158 " Double wide Minimum Joist Spacing 16 "  
 Box Length = 48 ft. 95.5" 12" MIN.IBEAM No Offset Box  
 No Skylights No Clerestory  
 No Porches No Origami Dormer  
 Joist Size = #2 spf 2x6 Lags 9Mx3" No Sunken Floor  
 No Parapet Roof

**Version R13.20**

Wind Zone 1 Standard Roof		(3/8" sheathing only with 15 gax 1.5" at 5/10" oc. (197 plf) Chords: 2x4 SPF #3 Top Plate spliced w/ 2x4 MCP & 1x6 SPF Rail spliced w/ 12" glue block.					96 inch sidewall	
Shearwall	Dist./ Hitch	Length	PLF	# of Joists	Lags	Notes	SW1/SW2	
A	0'	82"	425	4	1/1	Split Shearwall	41/41	
D	48'	108"	162	2	2/1			
Wind Zone 2 Standard Roof		(3/8" sheathing only with 15 gax 1.5" at 5/10" oc. (197 plf) Chords: 2x4 SPF #3 Top Plate spliced w/ 2.5x6 MCP & 2x4 SPF #3 Rail spliced w/ 12" glue block.					96 inch sidewall	
Shearwall	Dist./ Hitch	Length	PLF	# of Joists	Lags	Notes	SW1/SW2	
A	0'	82"	425	4	3/3	Split Shearwall	41/41	
C	33.29'	Full	324	2	2/2			
D	48'	88"	162	2	1/1			
Diaphragm Construction:		(3/8" sheathing only with 15 gax 1.5" at 5/10" oc. (197 plf) Chords: 2x4 SPF #3 Top Plate spliced w/ 2x4 MCP & 1x6 SPF Rail spliced w/ 12" glue block.					96 inch sidewall	
Shearwall	Dist./ Hitch	Length	PLF	# of Joists	Lags	Notes	SW1/SW2	
					0/0	Split Shearwall	40/98	
					0/0			
					0/0			
					0/0			
Diaphragm Construction:		(3/8" sheathing 8d@ 6/12 oc (308) unblocked & (347) blocked Chords: 2x4 SPF #3 Top Plate spliced w/ 3x6 MCP & 2x6 SPF #3 Rail spliced w/ 12" glue block. Block Dist. X=0'					96 inch sidewall	
Shearwall	Dist./ Hitch	Length	PLF	# of Joists	Lags	Notes	SW1/SW2	
					0/0	Split Shearwall	40/98	
					0/0			

Designed by JDN



**Building Analysis**  
**Entire House**  
**Clayton Homes**

Job: M46067-FDJ-TZII  
Date: Apr 21, 2023  
By:

5000 Clayton Road, Maryville, TN 37804 Phone: 865-380-3000

**Project Information**

For: M46067-FDJ-TZII, GILES

**APPROVED**

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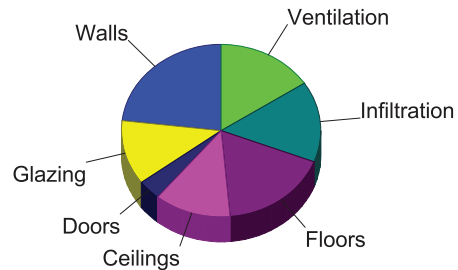
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**Design Conditions**

<b>Location:</b> Knoxville McGhee Tyson AP, TN, US Elevation: 981 ft Latitude: 36°N		<b>Indoor:</b> Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)		<b>Heating</b> 70 55 30 24.1	<b>Cooling</b> 75 18 50 36.2
<b>Outdoor:</b> Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	<b>Heating</b> 15 - - 15.0	<b>Cooling</b> 93 19 ( M ) 74 7.5	<b>Infiltration:</b> Method Construction quality Fireplaces	Simplified Semi-tight 0	

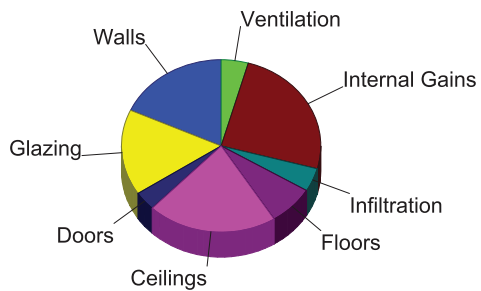
**Heating**

Component	Btuh/ft²	Btuh	% of load
Walls	4.5	4587	23.1
Glazing	19.3	2406	12.1
Doors	17.6	739	3.7
Ceilings	2.0	2471	12.5
Floors	2.8	3501	17.7
Infiltration	2.5	3012	15.2
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		3116	15.7
Adjustments		0	0
<b>Total</b>		<b>19832</b>	<b>100.0</b>



**Cooling**

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	2064	18.2
Glazing	14.6	1826	16.1
Doors	9.5	400	3.5
Ceilings	1.9	2392	21.1
Floors	0.7	843	7.4
Infiltration	0.4	497	4.4
Ducts		0	0
Ventilation		499	4.4
Internal gains		2820	24.9
Blower		0	0
Adjustments		0	0
<b>Total</b>		<b>11342</b>	<b>100.0</b>



Latent Cooling Load = 2067 Btuh  
Overall U-value = 0.068 Btuh/ft²·°F

Data entries checked.





**Component Constructions**  
**Entire House**  
**Clayton Homes**

Job: M46067-FDJ-TZII  
Date: Apr 21, 2023  
By:

5000 Clayton Road, Maryville, TN 37804 Phone: 865-380-3000

**Project Information**

For: M46067-FDJ-TZII, GILES

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**Design Conditions**

**Location:**

Knoxville McGhee Tyson AP, TN, US  
Elevation: 981 ft  
Latitude: 36°N

**Outdoor:**

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

**Heating**

15  
-  
-  
15.0

**Cooling**

93  
19 ( M )  
74  
7.5

**Indoor:**

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

**Infiltration:**

Method  
Construction quality  
Fireplaces

**Heating**

70  
55  
30  
24.1

**Cooling**

75  
18  
50  
36.2

Simplified  
Semi-tight  
0

**Construction descriptions**

**Walls**

CMH - DW - R-13 Wall - M-TH-20: Double Wide - R-13 Insulation M-TH-20 2x4 Wall

Or	Area ft <sup>2</sup>	U-value Btuh/ft <sup>2</sup> °F	Insul R ft <sup>2</sup> ·F/Btuh	Htg HTM Btuh/ft <sup>2</sup>	Loss Btuh	Clg HTM Btuh/ft <sup>2</sup>	Gain Btuh
n	326	0.082	13.0	4.51	1468	2.03	661
e	183	0.082	13.0	4.51	825	2.03	371
s	301	0.082	13.0	4.51	1355	2.03	610
w	208	0.082	13.0	4.51	938	2.03	422
all	1017	0.082	13.0	4.51	4587	2.03	2064

**Partitions**

(none)

**Windows**

Clayton - Thermopane Low-E: Clayton - Thermopane Low-E; 50% blinds 45°, medium; 50% outdoor insect screen; 6.67 ft head ht

n	38	0.350	0	19.3	722	9.39	352
e	25	0.350	0	19.3	481	26.5	662
s	63	0.350	0	19.3	1203	13.0	812
all	125	0.350	0	19.3	2406	14.6	1826

**Doors**

CMH - Standard Door: CMH - Standard Door - Solid no storm

n	21	0.320	0	17.6	370	9.52	200
s	21	0.320	0	17.6	370	9.52	200
all	42	0.320	0	17.6	739	9.52	400

**Ceilings**

CMH - DW - 158 box R-35 - M-TH-51K: DW - 158 box R-35 Knauf Insulation M-TH-51K Flat Ceiling 24oc

	1248	0.036	35.0	1.98	2471	1.92	2392
--	------	-------	------	------	------	------	------

**Floors**

CMH - DW - R-22 - M-TH-17A: Double Wide - R-22 Insulation M-TH-17A - HEATED

	1248	0.051	22.0	2.80	3501	0.68	843
--	------	-------	------	------	------	------	-----





**Project Summary**  
**Entire House**  
**Clayton Homes**

Job: M46067-FDJ-TZII  
Date: Apr 21, 2023  
By:

5000 Clayton Road, Maryville, TN 37804 Phone: 865-380-3000

**Project Information**

For: M46067-FDJ-TZII, GILES

Notes:

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**Design Information**

Weather: Knoxville McGhee Tyson AP, TN, US

**Winter Design Conditions**

Outside db	15 °F
Inside db	70 °F
Design TD	55 °F

**Summer Design Conditions**

Outside db	93 °F
Inside db	75 °F
Design TD	18 °F
Daily range	M
Relative humidity	50 %
Moisture difference	36 gr/lb

**Heating Summary**

Structure	16716 Btuh
Ducts	0 Btuh
Central vent (53 cfm)	3116 Btuh
Outside air	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	19832 Btuh

**Sensible Cooling Equipment Load Sizing**

Structure	10843 Btuh
Ducts	0 Btuh
Central vent (SER=50% 53 cfm)	499 Btuh
Energy recovery	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.98
Equipment sensible load	11070 Btuh

**Infiltration**

Method	Simplified
Construction quality	Semi-tight
Fireplaces	0

**Latent Cooling Equipment Load Sizing**

Structure	1433 Btuh
Ducts	0 Btuh
Central vent (LER=50% 53 cfm)	634 Btuh
Energy recovery	
Equipment latent load	2067 Btuh

	Heating	Cooling
Area (ft <sup>2</sup> )	1248	1248
Volume (ft <sup>3</sup> )	9984	9984
Air changes/hour	0.31	0.16
Equiv. AVF (cfm)	52	27

<b>Equipment Total Load (Sen+Lat)</b>	13137 Btuh
Req. total capacity at 0.70 SHR	1.3 ton

**Heating Equipment Summary**

Make	Smart Comfort
Trade	
Model	
AHRI ref	
Efficiency	100 EFF
Heating input	0 kW
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	593 cfm
Air flow factor	0.035 cfm/Btuh
Static pressure	0.30 in H2O
Space thermostat	

**Cooling Equipment Summary**

Make	Smart Comfort
Trade	SMART COMFORT
Cond	R4A518GKB
Coil	FED002410++NADA43601CK
AHRI ref	203358045
Efficiency	12.2 EER, 14 SEER
Sensible cooling	12460 Btuh
Latent cooling	5340 Btuh
Total cooling	17800 Btuh
Actual air flow	593 cfm
Air flow factor	0.055 cfm/Btuh
Static pressure	0.30 in H2O
Load sensible heat ratio	0.85

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





**Duct System Summary**  
**Entire House**  
**Clayton Homes**

Job: M46067-FDJ-TZII  
 Date: Apr 21, 2023  
 By:

5000 Clayton Road, Maryville, TN 37804 Phone: 865-380-3000

**Project Information**

For: M46067-FDJ-TZII, GILES

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	<b>Heating</b>	<b>Cooling</b>
External static pressure	0.30 in H2O	0.30 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0.30 in H2O	0.30 in H2O
Supply / return available pressure	0.150 / 0.150 in H2O	0.150 / 0.150 in H2O
Lowest friction rate	0.222 in/100ft	0.222 in/100ft
Actual air flow	593 cfm	593 cfm
Total effective length (TEL)	135 ft	

**Supply Branch Detail Table**


Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
BATH	h 1699	60	43	0.619	5.0	0x0	VIFx	13.5	35.0	st3
BED 2	h 2638	94	78	0.236	6.0	0x0	VIFx	27.1	100.0	st6
BED 3	h 1986	70	57	0.588	5.0	0x0	VIFx	16.0	35.0	st3
KITCHEN	c 1514	63	83	0.222	6.0	0x0	VIFx	35.1	100.0	st7
KITCHEN-A	c 1514	63	83	0.237	6.0	0x0	VIFx	26.6	100.0	st7
LIVING ROOM	c 2258	90	124	0.257	6.0	0x0	VIFx	16.6	100.0	st6
P-BATH	h 1920	68	42	0.249	5.0	0x0	VIFx	20.5	100.0	st4
PRIMARY BEDROOM	h 2385	85	84	0.822	5.0	0x0	VIFx	1.5	35.0	st1

**Supply Trunk Detail Table**

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st4	Peak AVF	68	42	0.249	140	3.7	5 x 14	ShtMetl	st1
st1	Peak AVF	153	126	0.249	314	3.7	5 x 14	ShtMetl	
st3	Peak AVF	131	100	0.588	269	3.7	5 x 14	ShtMetl	
st6	Peak AVF	184	202	0.236	415	5.7	5 x 14	ShtMetl	st2
st7	Peak AVF	126	166	0.222	341	5.7	5 x 14	ShtMetl	st2
st2	Peak AVF	310	367	0.222	882	6.6	5 x 12	VinIFlx	

**Return Branch Detail Table**

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	593	593	0	0	0	0	0x 0		VIFx	



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Model: M46067  
 Serial Number: FDJ-TZ2

**Cooling Equipment Summary**

Duct Capacity: 26,000 btuh

Economy Outdoor Temp (°F) = -18 = (70 - Furnace Output / Estimated Heatloss)  
 (Outdoor Certification Temp.)

Furnace Heating Temp (°F) = 8 = If  $0.3 * \text{Design TD} > 20$  then  
 (Operating Econ. Cert. Temp.)  $0.3 * (70 - \text{Cert. Temp.}) + \text{Cert. Temp}$   
 else Cert. Temp. + 20

Air Ducts in Floor: 93 sq ft  
 Air Ducts Outside of Home: 78.5 sq ft



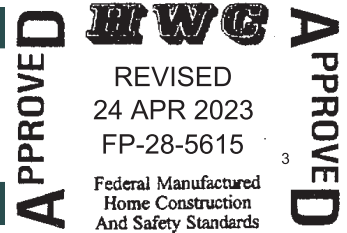
**Building Analysis**  
**Entire House**  
**Clayton Homes**

Job: M46067-FDJ-TZIII  
Date: Apr 21, 2023  
By:

5000 Clayton Road, Maryville, TN 37804 Phone: 865-380-3000

**Project Information**

For: M46067-FDJ-TZIII, GILES



**Design Conditions**

**Location:**

VA-SG22  
Elevation: 2133 ft  
Latitude: 37°N

**Outdoor:**

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

**Heating**

16  
-  
-  
15.0

**Cooling**

88  
20 ( M )  
71  
7.5

**Indoor:**

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

**Heating**

70  
54  
30  
24.8

**Cooling**

75  
13  
50  
28.1

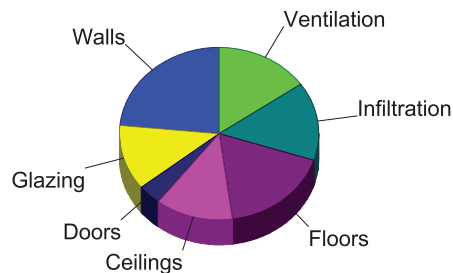
**Infiltration:**

Method  
Construction quality  
Fireplaces

Simplified  
Semi-tight  
0

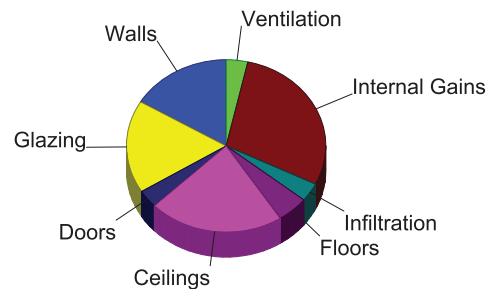
**Heating**

Component	Btuh/ft²	Btuh	% of load
Walls	4.4	4520	23.4
Glazing	19.0	2371	12.3
Doors	17.3	728	3.8
Ceilings	2.0	2435	12.6
Floors	2.8	3450	17.9
Infiltration	2.4	2846	14.7
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		2945	15.3
Adjustments		0	0
<b>Total</b>		<b>19295</b>	<b>100.0</b>



**Cooling**

Component	Btuh/ft²	Btuh	% of load
Walls	1.6	1610	16.4
Glazing	13.6	1704	17.4
Doors	7.8	327	3.3
Ceilings	1.7	2148	21.9
Floors	0.4	496	5.1
Infiltration	0.3	341	3.5
Ducts		0	0
Ventilation		342	3.5
Internal gains		2820	28.8
Blower		0	0
Adjustments		0	0
<b>Total</b>		<b>9788</b>	<b>100.0</b>



Latent Cooling Load = 1742 Btuh  
Overall U-value = 0.068 Btuh/ft²·°F

Data entries checked.



**Component Constructions**  
**Entire House**  
**Clayton Homes**

Job: M46067-FDJ-TZIII  
Date: Apr 21, 2023  
By:

5000 Clayton Road, Maryville, TN 37804 Phone: 865-380-3000

### Project Information

For: M46067-FDJ-TZIII, GILES

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### Design Conditions

#### Location:

VA-SG22  
Elevation: 2133 ft  
Latitude: 37°N

#### Outdoor:

Dry bulb (°F) 16  
Daily range (°F) -  
Wet bulb (°F) -  
Wind speed (mph) 15.0

#### Heating

16  
-  
-  
15.0

#### Cooling

88  
20 ( M )  
71  
7.5

#### Indoor:

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

#### Infiltration:

Method  
Construction quality  
Fireplaces

#### Heating

70  
54  
30  
24.8

#### Cooling

75  
13  
50  
28.1

Simplified  
Semi-tight  
0

### Construction descriptions

Construction descriptions	Or	Area ft <sup>2</sup>	U-value Btuh/ft <sup>2</sup> °F	Insul R ft <sup>2</sup> ·F/Btuh	Htg HTM Btuh/ft <sup>2</sup>	Loss Btuh	Clg HTM Btuh/ft <sup>2</sup>	Gain Btuh
<b>Walls</b>								
CMH - DW - R-13 Wall - M-TH-20: Double Wide - R-13 Insulation M-TH-20 2x4 Wall	n	326	0.082	13.0	4.44	1447	1.58	515
	e	183	0.082	13.0	4.44	813	1.58	290
	s	301	0.082	13.0	4.44	1336	1.58	476
	w	208	0.082	13.0	4.44	924	1.58	329
	all	1017	0.082	13.0	4.44	4520	1.58	1610
<b>Partitions</b>								
(none)								
<b>Windows</b>								
Clayton - Thermopane Low-E: Clayton - Thermopane Low-E; 50% blinds 45°, medium; 50% outdoor insect screen; 6.67 ft head ht	n	38	0.350	0	19.0	711	7.76	291
	e	25	0.350	0	19.0	474	24.8	621
	s	63	0.350	0	19.0	1186	11.8	737
	all	125	0.350	0	19.0	2371	13.2	1649
<b>Doors</b>								
CMH - Standard Door: CMH - Standard Door - Solid no storm	n	21	0.320	0	17.3	364	7.78	163
	s	21	0.320	0	17.3	364	7.78	163
	all	42	0.320	0	17.3	728	7.78	327
<b>Ceilings</b>								
CMH - DW - 158 box R-35 - M-TH-51K: DW - 158 box R-35 Knauf Insulation M-TH-51K Flat Ceiling 24oc		1248	0.036	35.0	1.95	2435	1.72	2148
<b>Floors</b>								
CMH - DW - R-22 - M-TH-17A: Double Wide - R-22 Insulation M-TH-17A - HEATED		1248	0.051	22.0	2.76	3450	0.40	496





**Project Summary**  
**Entire House**  
**Clayton Homes**

Job: M46067-FDJ-TZIII  
Date: Apr 21, 2023  
By:

5000 Clayton Road, Maryville, TN 37804 Phone: 865-380-3000

**Project Information**

For: M46067-FDJ-TZIII, GILES

Notes:

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**Design Information**

Weather: VA-SG22

**Winter Design Conditions**

Outside db	16 °F
Inside db	70 °F
Design TD	54 °F

**Summer Design Conditions**

Outside db	88 °F
Inside db	75 °F
Design TD	13 °F
Daily range	M
Relative humidity	50 %
Moisture difference	28 gr/lb

**Heating Summary**

Structure	16350 Btuh
Ducts	0 Btuh
Central vent (53 cfm)	2945 Btuh
Outside air	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	19295 Btuh

**Sensible Cooling Equipment Load Sizing**

Structure	9446 Btuh
Ducts	0 Btuh
Central vent (SER=50% 53 cfm)	342 Btuh
Energy recovery	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.93
Equipment sensible load	9064 Btuh

**Infiltration**

Method	Simplified
Construction quality	Semi-tight
Fireplaces	0

**Latent Cooling Equipment Load Sizing**

Structure	1270 Btuh
Ducts	0 Btuh
Central vent (LER=50% 53 cfm)	471 Btuh
Energy recovery	
Equipment latent load	1742 Btuh

	Heating	Cooling
Area (ft <sup>2</sup> )	1248	1248
Volume (ft <sup>3</sup> )	9984	9984
Air changes/hour	0.31	0.16
Equiv. AVF (cfm)	52	27

<b>Equipment Total Load (Sen+Lat)</b>	10806 Btuh
Req. total capacity at 0.70 SHR	1.1 ton

**Heating Equipment Summary**

Make	Smart Comfort
Trade	
Model	
AHRI ref	
Efficiency	100 EFF
Heating input	0 kW
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	593 cfm
Air flow factor	0.036 cfm/Btuh
Static pressure	0.30 in H2O
Space thermostat	

**Cooling Equipment Summary**

Make	Smart Comfort
Trade	SMART COMFORT
Cond	R4A518GKB
Coil	FED002410++NADA43601CK
AHRI ref	203358045
Efficiency	12.2 EER, 14 SEER
Sensible cooling	12460 Btuh
Latent cooling	5340 Btuh
Total cooling	17800 Btuh
Actual air flow	593 cfm
Air flow factor	0.063 cfm/Btuh
Static pressure	0.30 in H2O
Load sensible heat ratio	0.85

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.







**Duct System Summary**  
**Entire House**  
**Clayton Homes**

Job: M46067-FDJ-TZIII  
 Date: Apr 21, 2023  
 By:

5000 Clayton Road, Maryville, TN 37804 Phone: 865-380-3000

**Project Information**

For: M46067-FDJ-TZIII, GILES

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	<b>Heating</b>	<b>Cooling</b>
External static pressure	0.30 in H2O	0.30 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0.30 in H2O	0.30 in H2O
Supply / return available pressure	0.150 / 0.150 in H2O	0.150 / 0.150 in H2O
Lowest friction rate	0.222 in/100ft	0.222 in/100ft
Actual air flow	593 cfm	593 cfm
Total effective length (TEL)	135 ft	

**Supply Branch Detail Table**

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
BATH	h 1664	60	40	0.619	5.0	0x0	VIFx	13.5	35.0	st3
BED 2	h 2577	94	76	0.236	6.0	0x0	VIFx	27.1	100.0	st6
BED 3	h 1938	70	55	0.588	5.0	0x0	VIFx	16.0	35.0	st3
KITCHEN	c 1368	63	86	0.222	6.0	0x0	VIFx	35.1	100.0	st7
KITCHEN-A	c 1368	63	86	0.237	6.0	0x0	VIFx	26.6	100.0	st7
LIVING ROOM	c 2063	90	130	0.257	7.0	0x0	VIFx	16.6	100.0	st6
P-BATH	h 1873	68	38	0.249	5.0	0x0	VIFx	20.5	100.0	st4
PRIMARY BEDROOM	h 2337	85	83	0.822	5.0	0x0	VIFx	1.5	35.0	st1

**Supply Trunk Detail Table**

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st4	Peak AVF	68	38	0.249	140	3.7	5 x 14	ShtMetl	st1
st1	Peak AVF	153	121	0.249	314	3.7	5 x 14	ShtMetl	
st3	Peak AVF	131	94	0.588	269	3.7	5 x 14	ShtMetl	
st6	Peak AVF	184	206	0.236	423	5.7	5 x 14	ShtMetl	st2
st7	Peak AVF	126	172	0.222	354	5.7	5 x 14	ShtMetl	st2
st2	Peak AVF	310	378	0.222	907	6.6	5 x 12	VinIFlx	

**Return Branch Detail Table**

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	593	593	0	0	0	0	0x 0		VIFx	

**APPROVED** **HWC** **APPROVED**  
 REVISED  
 24 APR 2023  
 FP-28-5615  
 Federal Manufactured  
 Home Construction  
 And Safety Standards



Model: 

<b>M46067</b>
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 Serial Number: 

<b>FDJ-TZ3</b>
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**Cooling Equipment Summary**

Duct Capacity: 

<b>26,000</b>
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 btuh

Economy Outdoor Temp (°F) = 

<b>-18</b>
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 = (70 - Furnace Output / Estimated Heatloss)  
 (Outdoor Certification Temp.)

Furnace Heating Temp (°F) = 

<b>8</b>
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 = If  $0.3 * \text{Design TD} > 20$  then  
 (Operating Econ. Cert. Temp.)  $0.3 * (70 - \text{Cert. Temp.}) + \text{Cert. Temp.}$   
 else Cert. Temp. + 20

Air Ducts in Floor: 

<b>93</b>
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 sq ft  
 Air Ducts Outside of Home: 

<b>78.5</b>
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 sq ft