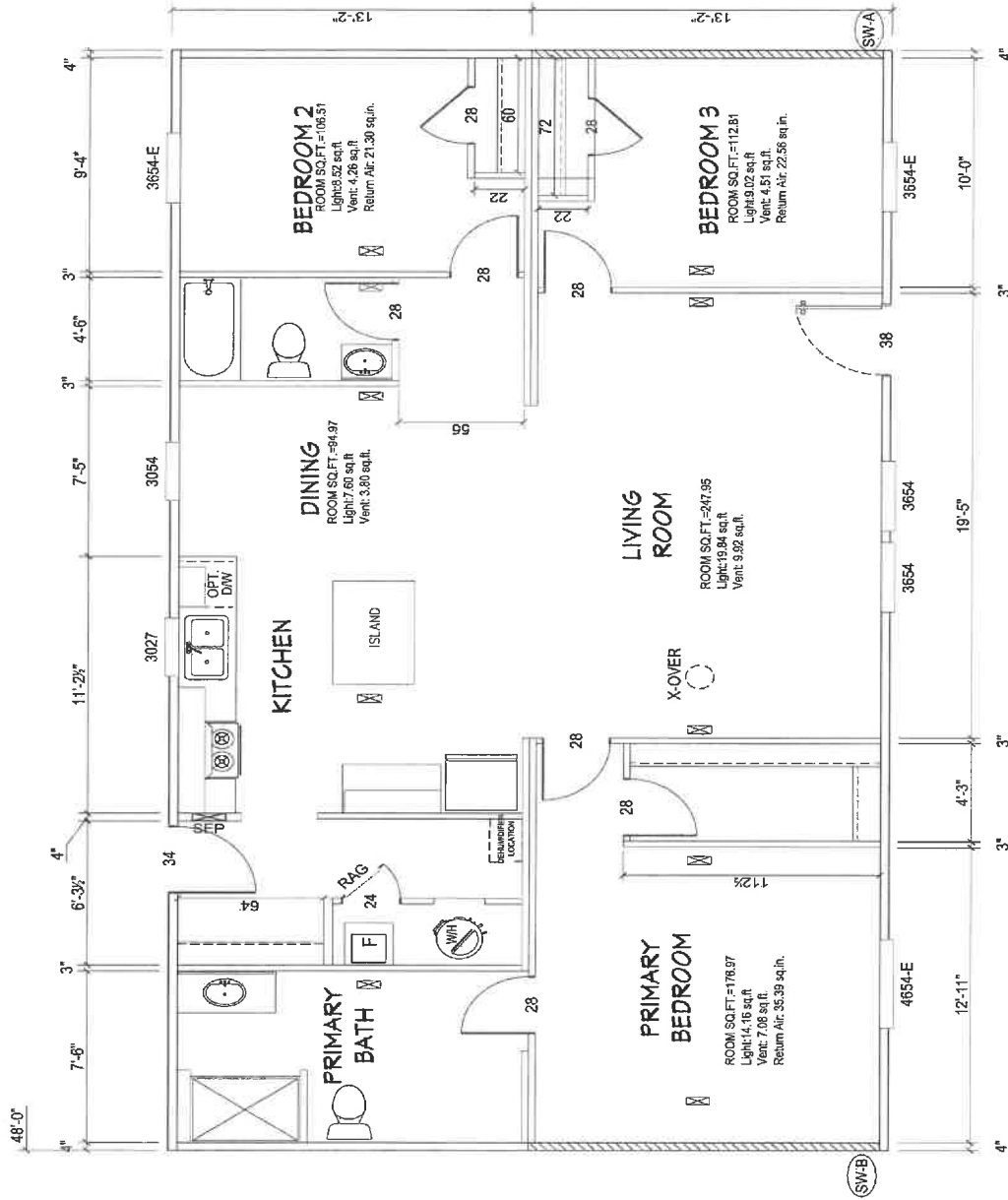


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CONSTRUCTION AND SAFETY STANDARDS

MP-28.TRU-2848-32-1.0.100

DATE PRINTED 8/27/2025	SCALE 3/16"=1'	PLAN NO. TRU-2848-32-1	SHEET NAME FLOOR PLAN	SHEET NO. EP-0
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Built **Clayton.**

MODEL NAME	Maple	MODEL NO.	TRT28483M	BOX SIZE	28" x 48"	1,264
Printed Date: 8/26/2025 5:05 PM Saved Date: 8/26/2025 5:05 PM User: jharvill@CD						

DRAWN BY
Jeremy HuitingDATE DRAWN
2/6/2024

DATE PRINTED
8/27/2025

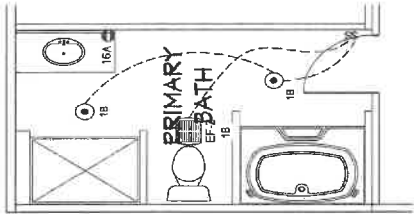
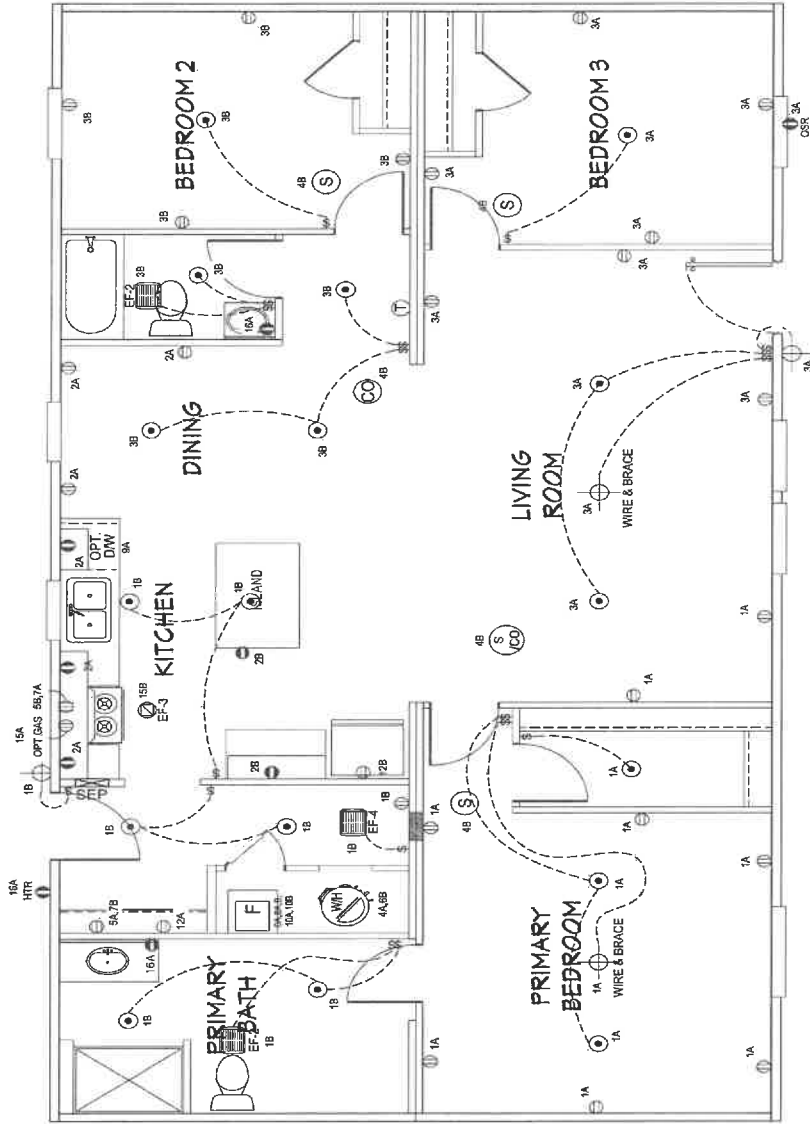
SCALE
3/16"=1'

PLAN NO.
TRU-2848-32-1

SHEET NAME
FLOOR

PLAN
SHEET NO.

MP-28, TRU-2848-32-1.2



NOTES:

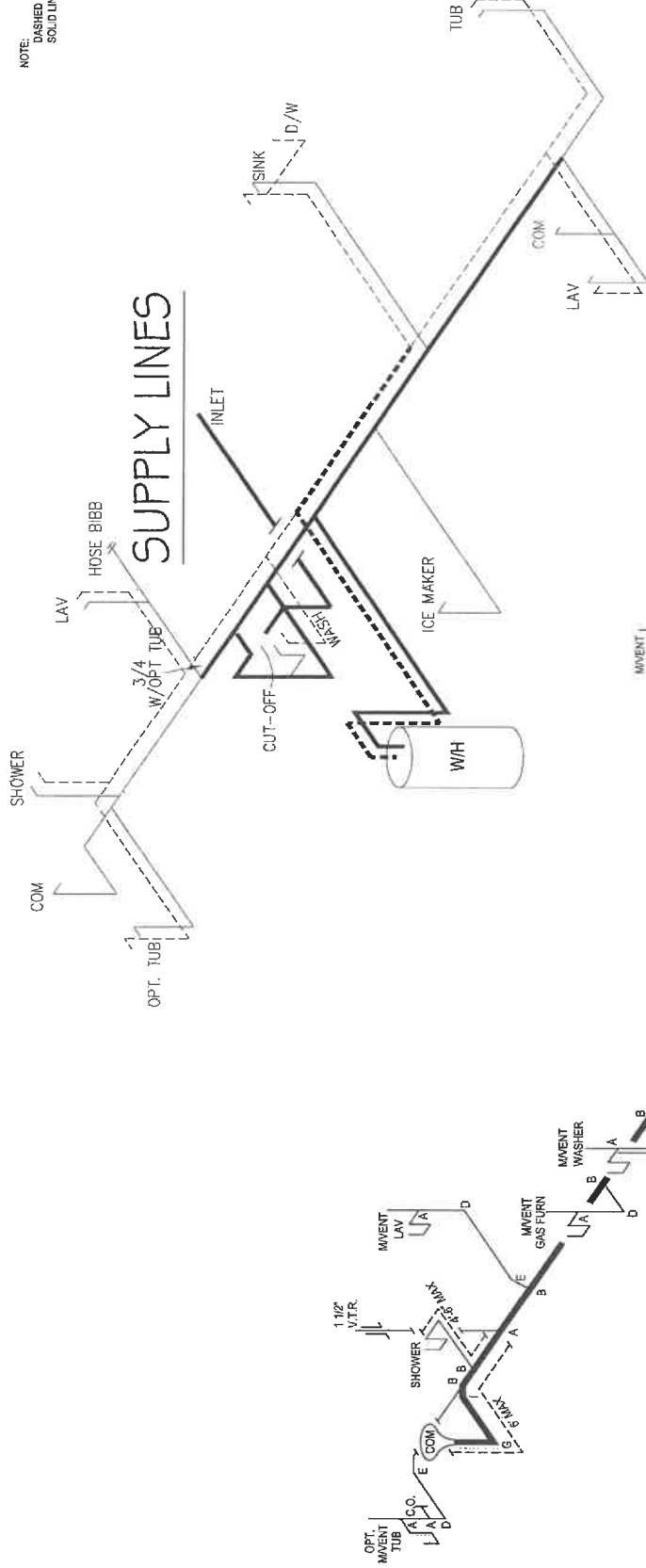
1. ALL CIRCUITS SHOWN ARE FOR REFERENCE AND MAY BE CHANGED BASED ON OPTIONAL COMPONENTS INSTALLED IN THE HOME.
2. REFER TO DAPFA MANUAL FOR SYMBOL CHART.
3. EITHER LIGHT OR RECEPTACLE MUST CONNECT TO SWITCH.
4. EF-1= 50 CFM EXHAUST FAN REQUIRED FOR THERMAL ZONE II THERMAL ZONES I & II MAY USE FAN OR WINDOW WITH 5 SQ. FT. OPENABLE GLASS.
5. EF-2= 50 CFM EXHAUST FAN REQUIRED THERMAL ZONE I, II, AND III.
6. EF-3= 100 CFM RANGE EXHAUST FAN, SWITCH AT HOOD.
7. EF-4= WHOLE HOUSE VENTILATION REQUIREMENTS PER DAPFA MANUAL.
8. REFER TO DAPFA MANUAL OR THE IFG INSTALLATION INSTRUCTIONS FOR PROPER WIRE SIZE AND BREAKER SIZE FOR SPECIFIC APPLIANCE AND MODEL BEING INSTALLED.
9. ALL SMOKE ALARMS TO BE LOCATED ON THE CEILING.
10. CARBON MONOXIDE ALARMS ARE ONLY REQUIRED WHEN HOME HAS OTHER FUEL BURNING APPLIANCES. IS GARAGE READY OR IS BASEMENT READY? REFERENCE DAPFA MANUAL FOR ADDITIONAL INFORMATION.
11. DIMENSIONS SHOWN ON PRINT ARE APPROXIMATE AND TO BE USED ONLY AS A GUIDELINE.

CIRCUIT	CIRCUIT #	WIRE	BREAKER	CIRCUIT	CIRCUIT #	WIRE	BREAKER	CIRCUIT	CIRCUIT #	WIRE	BREAKER
LIGHT/RECEP	1A, 3A, 13B, 14A	14-2	15-SP	DRYER	5A, 7B	16A	20-SP	BATHROOM	9B	12-2	20-SP
LIGHT/RECEP	1B, 3B, 14B	14-2	15-SP	WATER HEATER	4A, 6B	SEE NOTE #8	SEE NOTE #8	OPT GDISP	11A, B	SEE NOTE #8	SEE NOTE #8
KITCHEN	2A, 2B	12-2	20-SP	RANGE	5B, 7A	SEE NOTE #8	SEE NOTE #8	OPT SPA/ WH/AC	13A	SEE NOTE #8	SEE NOTE #8
WASHER	12A	12-2	20-SP	FURNACE	6A, 8A, B, 10A, B	SEE NOTE #8	SEE NOTE #8	FREEZER	16B	SEE NOTE #8	SEE NOTE #8
RANGE HOOD/ MICROWAVE	16B	SEE NOTE #8	SEE NOTE #8	OPT DWASH	9A	SEE NOTE #8	SEE NOTE #8	OPT ELEG. FIREPLACE			
OPT. GAS RANG	15A	SEE NOTE #8	SEE NOTE #8	SMOKECO DECT.	4B	SEE NOTE #8	SEE NOTE #8				
				REFER	12B	SEE NOTE #8	SEE NOTE #8				

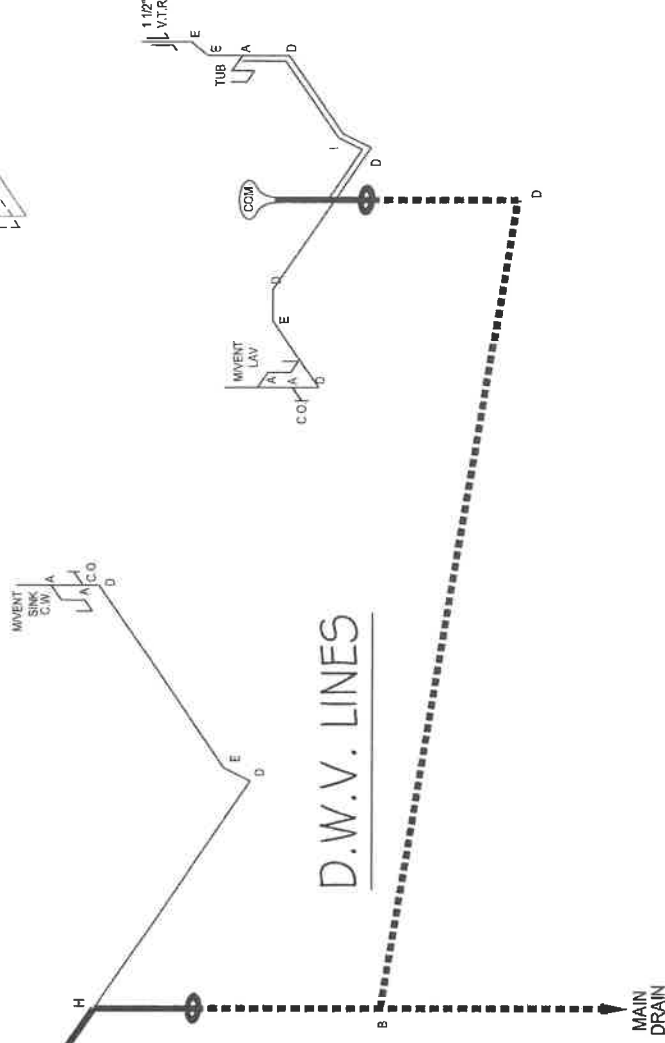
NOTE: DASHED LINES INDICATE HOT WATER
SOLID LINES INDICATE COLD WATER

— = 3/4"
— = 1/2"

SUPPLY LINES



D.W.V. LINES



LEGEND	
A	SHORT TURN T-Y
B	LONG TURN T-Y
C	1/4 BEND
D	LONG SWEEP 1/4 BEND
E	45 ELL
F	DR. SANITARY TEE
G	4/3 CLOSET ELL
H	DOUBLE ELL
I	22 1/2° ELL
J	45° Y
K	LONG TURN STREET ELBOW

DWV LINE SIZE CHART	
—	= 3"
—	= 2"
—	= 1 1/2"

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MP-28. TRU-2848-32-1.3

MODEL NAME Maple	MODEL NO. TRT28483M	BOX SIZE 28' X 48'	MODEL SQ. FT. 1,264
DRAWN BY Jeremy Huiting	DATE DRAWN 2/6/2024	DATE PRINTED 8/27/2025	SCALE 3/16"=1'
SHEET NAME D.W.V. & SUPPLY	SHEET NO. 1	DATE 9/11/2025	APPROVED BY NIA INC.

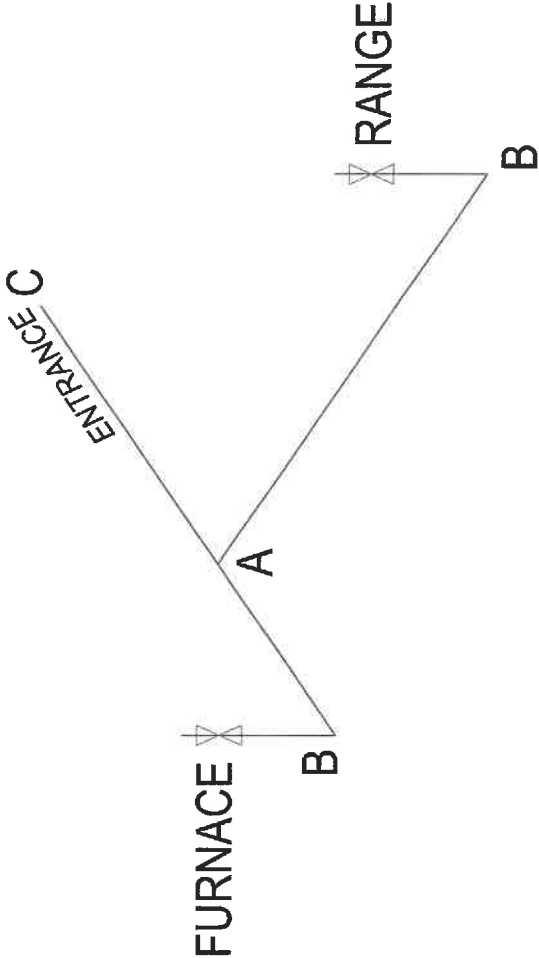
REVISION

DATE

Clayton Built

LEGEND		APPLIANCE BTU'S RATINGS MAX. INPUT		GAS LINE SIZE CHART	
SYM	FITTINGS				
A	TEE	FURNACE	60,000 BTU'S		= 1"
B	90 ELL	W/H	N/A BTU'S		= 3/4"
Σ	VALVE	RANGE	52,000 BTU'S		
C	CAP	DRYER	N/A BTU'S		

MDL= 15'



- 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

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MP-28-TRU-2848-32-1 4

DATE PRINTED

8/27/2025

SCALE

3/16"=1'

PLAN NO.

TRU-2848-32-1

SHEET NAME

GAS

LINES

SHEET NO.

PI -4

MODEL NAME

Maple

MODEL NO.

TRT28483M

BOX SIZE

28' x 48'

MODEL SQ. FT.

1,264

REVISION

DATE

Clayton

Built



Manual S Compliance Report

Entire House

Clayton Homes

Job: TRU-2848-32-1-FDJ

Date: Aug 27, 2025

By:

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

Project Information

For: TRU-2848-32-1-FDJ

Cooling Equipment

Design Conditions

Outdoor design DB:	90.4 °F	Sensible gain:	30489 Btuh	Entering coil DB:	76.5 °F
Outdoor design WB:	73.3 °F	Latent gain:	6329 Btuh	Entering coil WB:	63.6 °F
Indoor design DB:	75.0 °F	Total gain:	36818 Btuh		
Indoor RH:	50%	Estimated airflow:	1533 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Smart Comfort	Model:	R4H5S48*K*AAA*+FEVA0048**+NAVA44801CK		
Actual airflow:	1533 cfm				
Sensible capacity:	37299 Btuh	122% of load			
Latent capacity:	7732 Btuh	122% of load			
Total capacity:	45031 Btuh	122% of load	SHR:	83%	

Heating Equipment

Design Conditions

Outdoor design DB:	21.0 °F	Heat loss:	60757 Btuh	Entering coil DB:	65.1 °F
Indoor design DB:	70.0 °F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Smart Comfort	Model:	R4H5S48*K*AAA*+FEVA0048**+NAVA44801CK		
Actual airflow:	1533 cfm				
Output capacity:	32402 Btuh	53% of load		Capacity balance:	32 °F
Supplemental heat required:	28355 Btuh			Economic balance:	-99 °F

Backup equipment type:	Elec strip				
Manufacturer:	Smart Comfort	Model:	FEVA004815		
Actual airflow:	1533 cfm				
Output capacity:	15.0 kW	84% of load	Temp. rise:	31 °F	

Meets all requirements of ACCA Manual S.

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 CONSTRUCTION AND SAFETY STANDARDS



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 A NIA Inc. / DeltaLine Hardware Company

Right-Suite® Universal 2024 24.0.04 RSU55718

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...ODELS\TRU-2848-32-1-MAPLE\TRU-2848-32-1-FDJ.rup Calc = MJ8 Front Door faces: N



Project Summary

Entire House

Clayton Homes

Job: TRU-2848-32-1-FDJ
Date: Aug 27, 2025
By:

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

Project Information

For: TRU-2848-32-1-FDJ

Notes: DUCT CAPACITY: 51,100 BTUH

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Design Information

Weather: TN 25

Winter Design Conditions

Outside db	21 °F
Inside db	70 °F
Design TD	49 °F

Ventilation Method MJ8

Heating Summary

Structure	14301 Btuh
Ducts (R-0.0)	38648 Btuh
Central vent (150 cfm)	7808 Btuh
Outside air	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	60757 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	1235	1235
Volume (ft³)	9880	9880
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	74	38

Heating Equipment Summary

Make	Smart Comfort
Trade	15 SEER2 R SERIES R410A HP
Model	R4H5S48*K*AAA*
AHRI ref	210538044
Efficiency	7.5 HSPF2
Heating input	
Heating output	47000 Btuh @ 47°F
Temperature rise	29 °F
Actual air flow	1533 cfm
Air flow factor	0.029 cfm/Btuh
Static pressure	0.30 in H2O
Space thermostat	
Capacity balance point = 32 °F	
Backup: Smart Comfort FEVA004815	
Input = 15 kW, Output = 51182 Btuh, 100 AFUE	

Summer Design Conditions

Outside db	90 °F
Inside db	75 °F
Design TD	15 °F
Daily range	M
Relative humidity	50 %
Moisture difference	34 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	10411 Btuh
Ducts (R-0.0)	17624 Btuh
Central vent (150 cfm)	2454 Btuh
Outside air	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.95
Equipment sensible load	29087 Btuh

Latent Cooling Equipment Load Sizing

Structure	1636 Btuh
Ducts	1381 Btuh
Central vent (150 cfm)	3312 Btuh
Outside air	
Equipment latent load	6329 Btuh
Equipment Total Load (Sen+Lat)	35416 Btuh
Req. total capacity at 0.70 SHR	3.5 ton

Cooling Equipment Summary

Make	Smart Comfort
Trade	15 SEER2 R SERIES R410A HP
Cond	R4H5S48*K*AAA*
Coil	FEVA0048**+NAVA44801CK
AHRI ref	210538044
Efficiency	11.0 EER2, 14.3 SEER2
Sensible cooling	32200 Btuh
Latent cooling	13800 Btuh
Total cooling	46000 Btuh
Actual air flow	1533 cfm
Air flow factor	0.055 cfm/Btuh
Static pressure	0.30 in H2O
Load sensible heat ratio	0.83

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



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...ODELS\TRU-2848-32-1-MAPLE\TRU-2848-32-1-FDJ.rup Calc = MJ8 Front Door faces: N

BOX SIZE: 26.33 ft. x 48 ft.
AVG. SIDEWALL HEIGHT = 8 FEET
PERCENTAGE OF CEILING THAT IS VAULTED = 70.5%
12 INCH DIAMETER XOVER DUCT AREA = 78.5 SQ.FT. MAX. WITH R-8 INSULATION
IN-FLOOR DUCT SYSTEM

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Doors:

Th. Zone 1:
Th. Zone 2:
Th. Zone 3:
Overhead TZ 1:
Overhead TZ 2:
Overhead TZ 3:

Thermal Zone	Outdoor			EStar v3 &	
	Design Temp (F)	UA	Uo	ZERH Compliant	Heatloss BTUH/F
1	11	240.43	0.063	OK	344.50
2	0	238.93	0.063	OK	343.00
3	-14	237.58	0.063	NG	341.60

Thermal Zone	U-Value	Thermal Zone	U-Value	Thermal Zone	U-Value
Energy Star Version 2					
1-EHP-S	0.080	2-EHP-S	0.080	3-EHP-S	0.079
1-GAS-S	0.080	2-GAS-S	0.080	3-GAS-S	0.071
1-ENV-S	0.076	2-ENV-S	0.067	3-ENV-S	0.059
1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.074
1-GAS-M	0.074	2-GAS-M	0.074	3-GAS-M	0.065
1-ENV-M	0.071	2-ENV-M	0.064	3-ENV-M	0.056

MP-28.TRU-2848-32-1.7