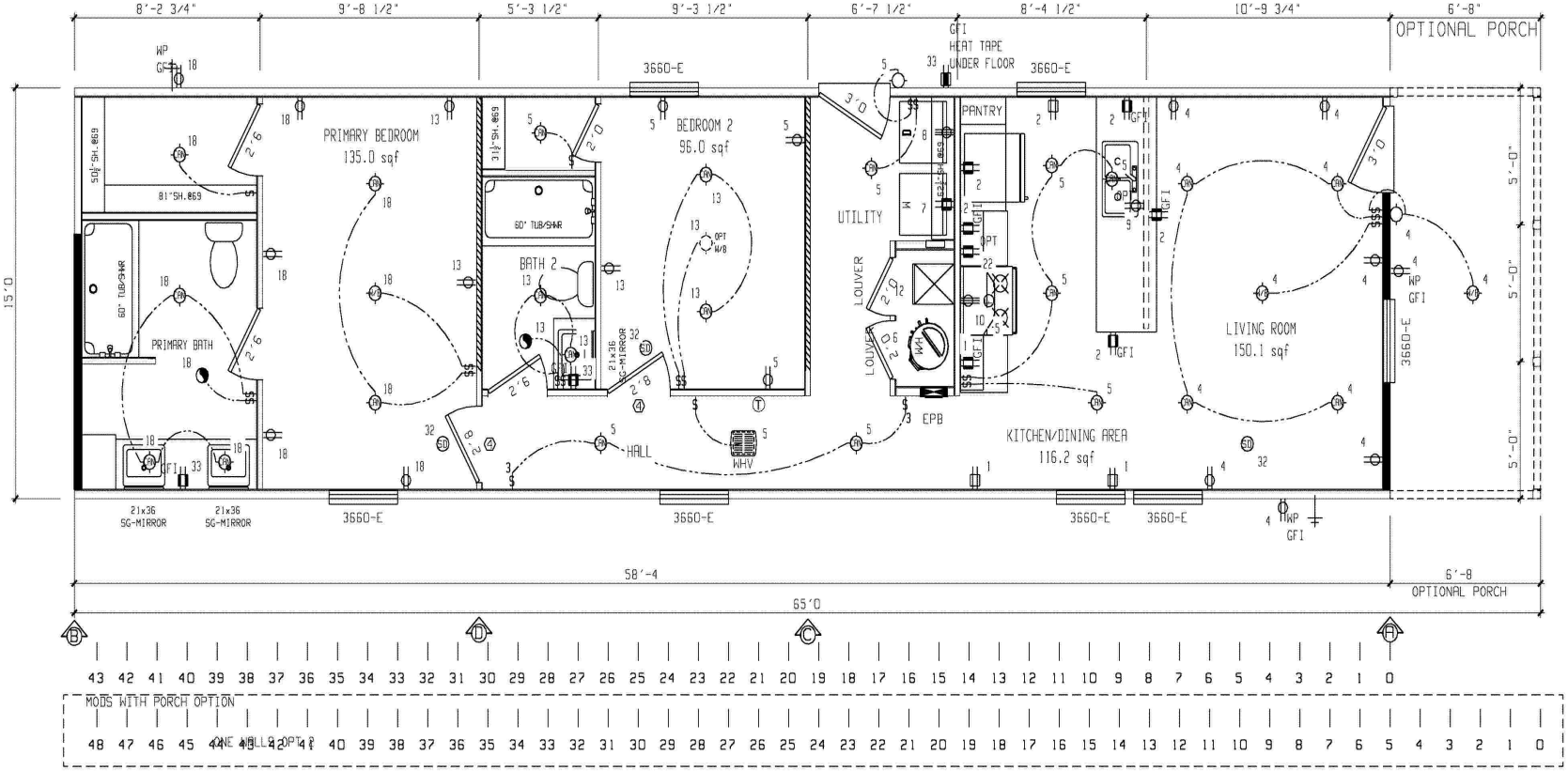
APPROVED BY
NTA INC. 11/8/2023
FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS



957-5400.0

WIND-1		DIAPHRAGM = 132 PLF		WIND-2		DIAPHRAGM = 232 PLF		WIND-3		DIAPHRAGM = 232 PLF				DIAPHRAGM = PLF				DIAPHRAGM = PLF				DIAPHRAGM = PLF				DESIGN LOADS
SHEARWALL	DESIGN PLF	SHEAR AREA	JOISTS	SHEARWALL	DESIGN PLF	SHEAR AREA	JOISTS	SHEARWALL	DESIGN PLF	SHEAR AREA	JOISTS	SHEARWALL	DESIGN PLF	SHEAR AREA	JOISTS	SHEARWALL	DESIGN PLF	SHEAR AREA	JOISTS	SHEARWALL	DESIGN PLF	SHEAR AREA	JOISTS	SHEARWALL	DESIGN PLF	SHEAR AREA	JOISTS	WIND-ROOF PSF
A	420 PLF	88"	5	A	420 PLF	88"	5	A	420 PLF	88"	5	A				A				A				A				1-20
B	210 PLF	112"	2	B	210 PLF	112"	2	B	210 PLF	112"	2	B				B				B				B				2-20
C				C	350 PLF	120"	3	C	420 PLF	120"	3	C				C				C				C				3-20
D				D	350 PLF	120"	3	D	350 PLF	120"	3	D				D				D				D				
E				E				E				E				E				E				E				
F				F				F				F				F				F				F				
G				G				G				G				G				G				G				

RETURN AIR REQUIREMENTS

1. 20"x16" GRILL REQUIRED
2. 4"x10" GRILL W/ 2 1/2" DOOR UNDERCUT
3. DOOR(S) MUST BE UNDERCUT 2 1/2" MIN.
4. 4"x24" OR 6"x14" GRILL REQUIRED

③ INDICATES REQUIRED NUMBER OF STUDS IN COLUMN

④ THE * SPECIFIES THAT THERE CAN BE NO HOLES IN STUDS IN COLUMNS

BRAND	SERIES
CLAYTON	HR16

CLAYTON HOME BUILDING GROUP

REVISIONS	BY	DATE

GENERAL NOTES

- CEILING HEIGHT = 96.00
- REFER TO DAPIA PAGE MMP-2.0 FOR AREA LIGHT & VENT
- REFER TO DAPIA PAGE EL-1.2 FOR ELEC. SYMBOL & BRANCH CIRCUIT NUMBER
- FLOOR FRAMING SPACING = 16
- TOTAL WINDOW SQFT = 108

DRAWING TITLE

MASTER PLAN

MODEL NAME	SQ. FT.
5400	874

PLANT	DESCRIPTION	MODEL NO.
957	16X58.33 2BR-2BA	5400

DRAWN BY	ORIG. DATE	DATE PRINTED	SHEET NO.
GDB	06/06/2023	11/07/2023	1-1

CMH Inc.
SHEARWALL DESIGN - HUD

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11/8/2023
FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS

Model # 5400

Box Width =	180 "	Single wide	Minimum Joist Spacing 16 "
Box Length =	58.33 ft.	99.5" 10" MIN.IBEAM	No Offset Box
No Skylights			No Clerestory
80" Front porch			No Origami Dormer
Joist Size =	#2 spf 2x6	Lags 9Mx3"	No Sunken Floor
			No Parapet Roof

Version R13.20

Wind Zone 1 Standard Roof — 96 inch sidewall

Diaphragm Construction: (3/8" sheathing only with 16ga. @ 4/8 oc) [132 plf] Chords: 2x4 SPF #3 Top Plate & 2x4 Rail. Each spliced w/ 12" glue block.

Shearwall	Dist./ Hitch	Length	PLF	# of Joists	Lags	Notes	SW1/SW2
A	0 '	88 "	420	5	2/2	Split Shearwall	44/44
B	58.33 '	112 "	210	2	2/1		

Wind Zone 2 Standard Roof — 96 inch sidewall

Diaphragm Construction: (3/8" sheathing w/ceiling with 16ga. @ 4/8 oc) [232 plf] Chords: 2x4 SPF #3 Top Plate & 2x4 Rail. Each spliced w/ 12" glue block.

Shearwall	Dist./ Hitch	Length	PLF	# of Joists	Lags	Notes	SW1/SW2
A	0 '	88 "	420	5	2/2	Split Shearwall	44/44
B	58.33 '	112 "	210	2	2/1		
C	25.83 '	120 "	350	3	3/1		
D	40.41 '	120 "	350	3	3/1		

Wind Zone 3 Standard Roof — 96 inch sidewall

Diaphragm Construction: (3/8" sheathing w/ceiling with 16ga. @ 4/8 oc) [232 plf] Chords: 2x4 SPF #3 Top Plate & 2x4 Rail. Each spliced w/ 12" glue block.

Shearwall	Dist./ Hitch	Length	PLF	# of Joists	Lags	Notes	SW1/SW2
A	0 '	88 "	420	5	2/2	Split Shearwall	44/44
B	58.33 '	112 "	210	2	2/1		
C	25.83 '	120 "	420	3	4/1		
D	40.41 '	120 "	350	3	3/1		

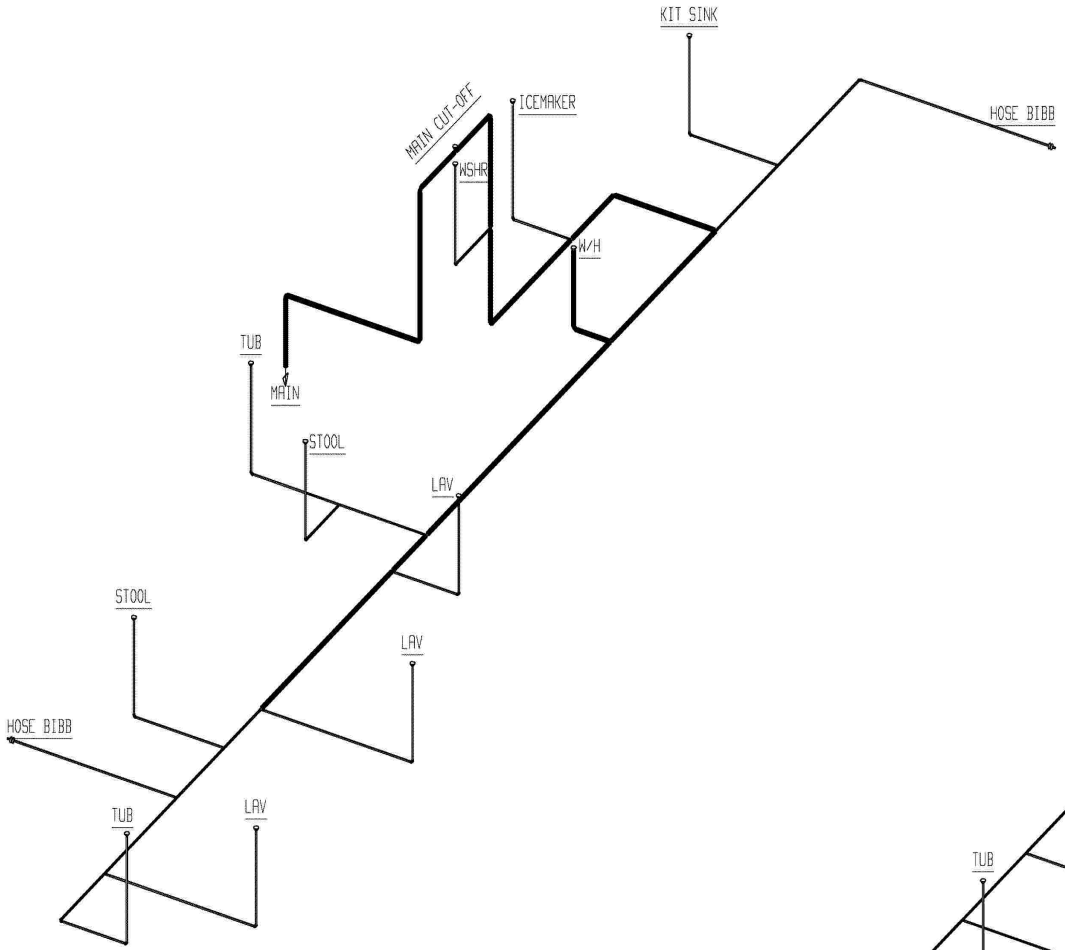
Diaphragm Construction: (3/8" sheathing only with 14ga. @ 6/6 oc) [172 plf] Chords: 2x4 SPF #3 Top Plate & 2x4 Rail. Each spliced w/ 12" glue block.

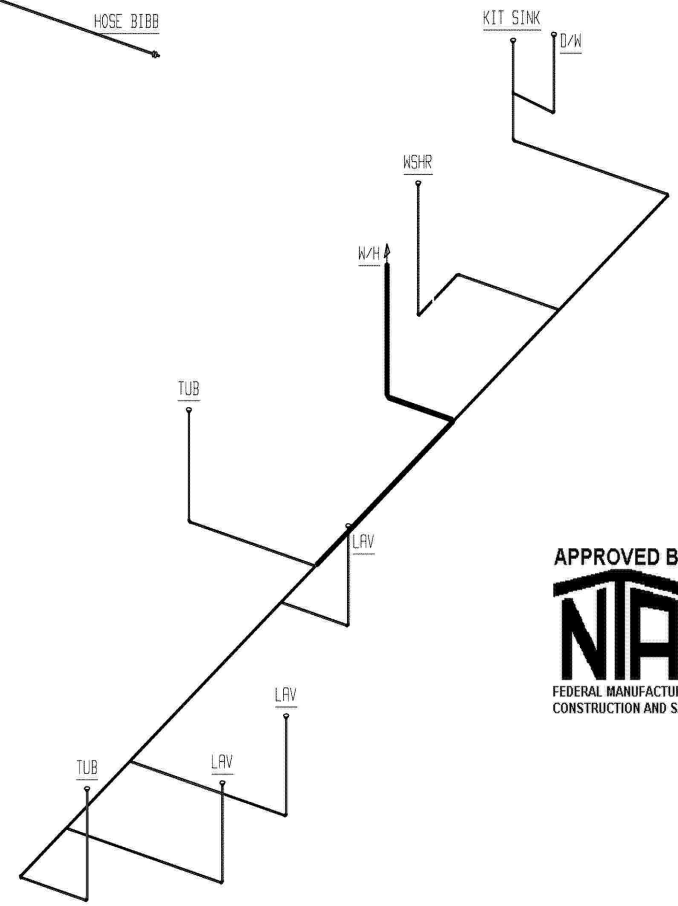
Shearwall	Dist./ Hitch	Length	PLF	# of Joists	Lags	Notes

Designed by KLK

957-5400.0.1

HOT WATER MDL'S
3/4" MDL = 19.67ft
1/2" MDL = 30.33ft
VOLUME (gal) = .64





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11/8/2023
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

957-5400.1

COLD WATER SUPPLY PLUMBING

HOT WATER SUPPLY PLUMBING

PIPE LEGEND
1"
3/4"
1/2"

BRAND	SERIES
CLAYTON	HR16

CLAYTON HOME BUILDING GROUP

REVISIONS	BY	DATE

GENERAL NOTES
HOSE BIBBS PER SPECS

DRAWING TITLE
SUPPLY PLUMBING

MODEL NAME			SQ. FT.
5400			874
PLANT	DESCRIPTION		MODEL NO.
957	16X58.33 2BR-2BA		5400
DRAWN BY	ORIG. DATE	DATE PRINTED	SHEET NO.
GDB	06/06/2023	11/06/2023	9-1

PIPING AND FITTING MATERIAL TYPE TO BE:
ABS (ACRYLONITRILE-BUTADIENE-STYRENE)
OR PVC (POLYVINYL CHLORIDE)

PIPE LEGEND

- 1 1/2"
- 2"
- 3"

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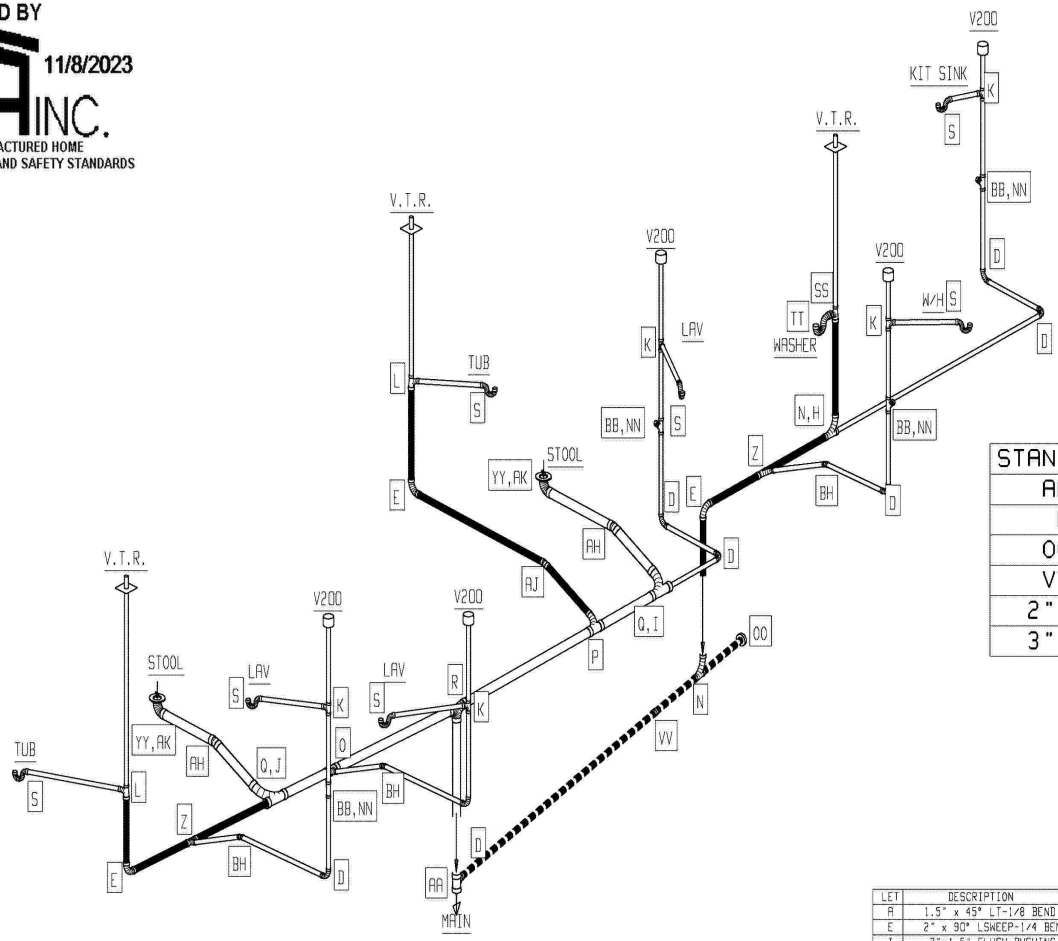
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS



STANDARD SHIP LOOSE	
AA	1
N	1
OO	1
VV	1
2" PIPE	25 FT
3" PIPE	5 FT

LET	DESCRIPTION	LET	DESCRIPTION	LET	DESCRIPTION	LET	DESCRIPTION
A	1.5" x 45° LT-1/8 BEND	B	2" x 45° LT-1/8 BEND	C	3" x 45° LT-1/8 BEND	D	1.5" x 90° LONG SWEEP-1/4 BEND
E	2" x 90° LSWEEP-1/4 BEND	F	3" x 90° LSWEEP-1/4 BEND	G	4"x3" CLOSET FLANGE	H	2"x1.5" FLUSH BUSHING
I	3"x1.5" FLUSH BUSHING	J	3"x2" FLUSH BUSHING	K	1.5" SANITARY TEE	L	2"x1.5"x1.5" SAN TEE
M	1.5" LTTY	N	2" LTTY	O	3"x3"x1.5" LTTY	P	3"x3"x2" LTTY
Q	3" LTTY	R	3" 3-WAY ELBOW	S	1.5"x1.5" P-TRAP	T	3"x3"x1.5"x1.5" DBL SAN TEE
U	3"x3"x1.5" SAN TEE	V	1.5" x 90° LONG SWEEP STREET	W	3" SANITARY TEE	X	3"x3"x1.5" WYE
Y	2" 3-WAY ELBOW	Z	2"x2"x1.5" LTTY	AA	3"x3"x2" SAN TEE	BB	1.5" x 45° WYE
CC	2" X 90° LSWEEP STREET	DD	1.5" x 45° 1/8 BEND STREET	EE	1.5" COUPLING	FF	3" COUPLING
GG	1.5" P-TRAP @ WASHER	HH	1.5" SAN TEE STREET	II	2"x1.5"x1.5" LTTY	JJ	2"x1.5"x2" LTTY
KK	2" x 1/4 BEND STREET	LL	2" x 45° WYE	MM	3" DBL SAN TEE	NN	1.5" C.O. W/PLUG
OO	2" C.O. W/PLUG	PP	3" C.O. W/PLUG	QQ	2"x2"x1.5" WYE REDUCING	RR	1.5" 1/4 BEND
SS	2"x1.5"x2" SAN TEE	TT	2" P-TRAP	UU	2" x 45° 1/8 BEND STREET	VV	2" COUPLING
WW	3" x 45° 1/8 BEND STREET	XX	2" SANITARY TEE	YY	4" CLOSET FLANGE	ZZ	4" COUPLING
AB	1.5" CONT WASTE	AC	1.5" x 22 1/2° ELBOW STREET	AD	2" x 22 1/2° ELBOW STREET	AE	3"x3"x2"x2" DBL SAN TEE
AF	2"x1.5"x1.5" SAN TEE STREET	AG	2"x1.5"x1.5" 3-WAY ELBOW	AH	3" x 22 1/2° 1/16 BEND ELBOW	AI	1.5" 3-WAY ELBOW
AJ	2" x 22 1/2° 1/16 BEND ELBOW	AK	4"x3" CLOSET BEND STR (CUT DOWN 1.5")	AL	3"x3"x3" WYE	AM	3" 1/4 BEND
AN	2"x3" PIPE INCREASER	AO	3" X 3" X 2" WYE	AP	2" 1/4 BEND	AQ	2"x2"x2"x2" DBL SAN TEE
AR	1.5"x3" PIPE INCREASER	AS	1.5"x1.5"x1.5"x1.5" DBL SAN TEE	AT	3" DOUBLE FIXTURE TEE	AU	2"x2"x1.5"x1.5" DBL SAN TEE
AV	3"x3"x2"x2" SAN TEE (SI) LEFT	AW	3"x3"x3"x1.5" SAN TEE (SI) LEFT	AX	3"x3"x3"x2" SAN TEE (SI) LEFT	AY	3"x3"x2"x2" SAN TEE (SI) RIGHT
AZ	3"x3"x3"x1.5" SAN TEE (SI) RIGHT	BA	3"x3"x3"x2" SAN TEE (SI) RIGHT	BC	3"x3"x3"x2"x2" SAN TEE DBL(SI)	BD	3"x3"x3"x1.5"x1.5" SAN T DBL(SI)
BE	1.5"x2" PIPE INCREASER	BF	3"x3"x1.5" 90° LSWEEP LOW HEEL INLET	BG	3"x3"x2" 90° LSWEEP LOW HEEL INLET	BH	1.5" x 22 1/2° 1/16 BEND ELBOW
BI	4"x3" CLOSET BEND STREET	BJ	1.5" x 1.5" x .5" 45° APPLIANCE WYE	BK		BL	

957-5400.2

BRAND: CLAYTON
SERIES: HR16

CLAYTON HOME BUILDING GROUP

REVISIONS	BY	DATE

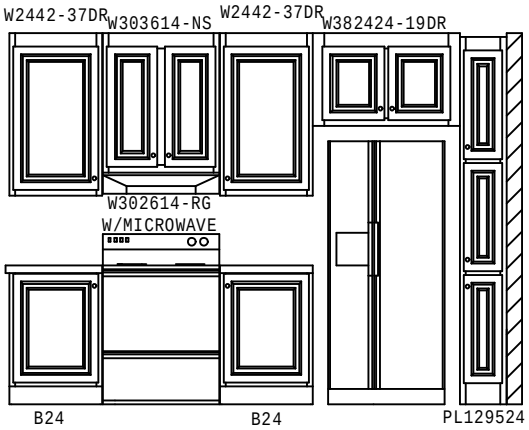
GENERAL NOTES

DRAWING TITLE: DWV SCHEMATIC

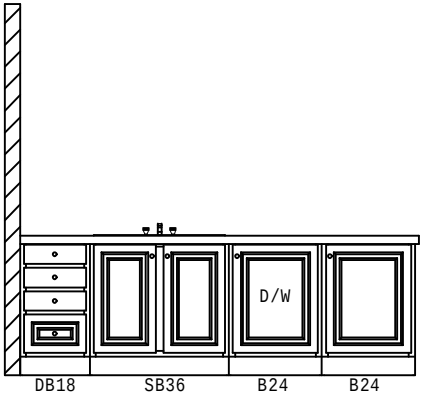
MODEL NAME: 5400
SQ. FT.: 874

PLANT	DESCRIPTION	MODEL NO.
957	16X58.33 2BR-2BA	5400

DRAWN BY	ORIG. DATE	DATE PRINTED	SHEET NO.
GDB	06/06/2023	11/06/2023	8-1

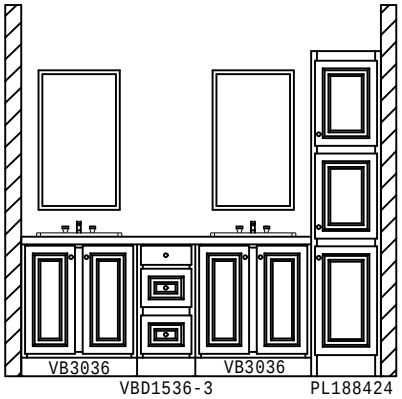


CABINET ELEVATION A



CABINET ELEVATION B

CABINET ELEVATION C



CABINET ELEVATION D

CABINET ELEVATION E

CABINET ELEVATION F

BRAND: CLAYTON	SERIES: HR16	REVISIONS	BY	DATE	GENERAL NOTES: CAB TRIM, MIRROR TRIM & MIRROR FASTENING PER SPECS	DRAWING TITLE: *CABINET ELEVATION-1*	MODEL NAME: 5400 / SQ. FT.: 815
CLAYTON HOME BUILDING GROUP							PLANT: 957 / DESCRIPTION: 16X54'4 2BR-2BA / MODEL NO.: 5400
							DRAWN BY: KLK / ORIG. DATE: 06/06/2023 / DATE PRINTED: 11/09/2023 / SHEET NO.: 17-1

N

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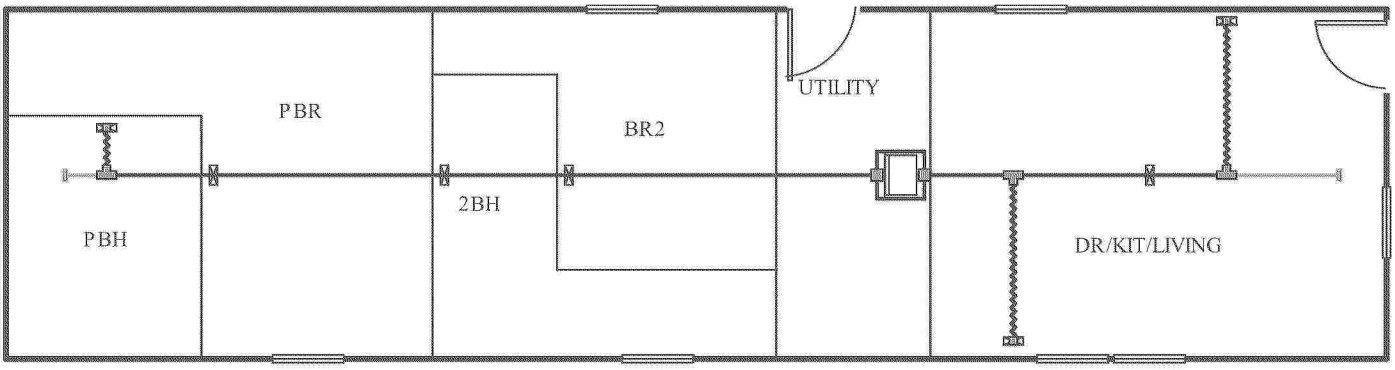
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Level 1



957-5400.4

Job #: 5400 (I) **Performed by CLAYTON ROCKWELL for:** 5400 (I) ROCKWELL, NC		Scale: 1 : 97 Page 1 Right-Suite® Universal 2023 23.0.04 RSU28035 2023-Nov-03 11:30:27 R:\WRITESOFT\MODELS\5400(I).rup

wrightsoft

Project Summary
Entire House

Job: 5400 (I)
Date: Apr 04, 2023
By: CLAYTON ROCKWELL

Project Information

For: 5400 (I), CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 26,000 BTU/HR

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11/8/2023
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Design Information

Weather: Fort Bragg/Simmons, NC, US

Winter Design Conditions

Outside db	26	°F
Inside db	70	°F
Design TD	44	°F

Summer Design Conditions

Outside db	95	°F
Inside db	75	°F
Design TD	20	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	41	gr/lb

Heating Summary

Structure	11246	Btuh
Ducts	0	Btuh
Central vent (45 cfm)	***2169***	Btuh
Outside air		
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	13415	Btuh

Sensible Cooling Equipment Load Sizing

Structure	10467	Btuh
Ducts	0	Btuh
Central vent (45 cfm)	***967***	Btuh
Outside air		
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	1.00	
Equipment sensible load	11399	Btuh

Infiltration

Method	Simplified
Construction quality	Semi-tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	859	859
Volume (ft³)	6874	6874
Air changes/hour	0.41	0.22
Equiv. AVF (cfm)	63	45

Latent Cooling Equipment Load Sizing

Structure	2025	Btuh
Ducts	0	Btuh
Central vent (45 cfm)	***1233***	Btuh
Outside air		
Equipment latent load	3258	Btuh
Equipment Total Load (Sen+Lat)	14657	Btuh
Req. total capacity at 0.70 SHR	1.4	ton

Heating Equipment Summary

Make	Smart Comfort	
Trade		
Model		
AHRI ref		
Efficiency	100 EFF	
Heating input	10.0	kW
Heating output	34121	Btuh
Temperature rise	40	°F
Actual air flow	780	cfm
Air flow factor	0.069	cfm/Btuh
Static pressure	0.30	in H2O
Space thermostat		

Cooling Equipment Summary

Make	Smart Comfort	
Trade	15 SEER2 AC	
Cond	R4A5S24*K*WAA*	
Coil	FEVA0024**+NAVA43601CK	
AHRI ref	0	
Efficiency	13.0 EER2,15.5 SEER2	
Sensible cooling	16380	Btuh
Latent cooling	7020	Btuh
Total cooling	23400	Btuh
Actual air flow	780	cfm
Air flow factor	0.075	cfm/Btuh
Static pressure	0.30	in H2O
Load sensible heat ratio	0.78	

957-5400.4.1

Bold/italic values have been manually overridden

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

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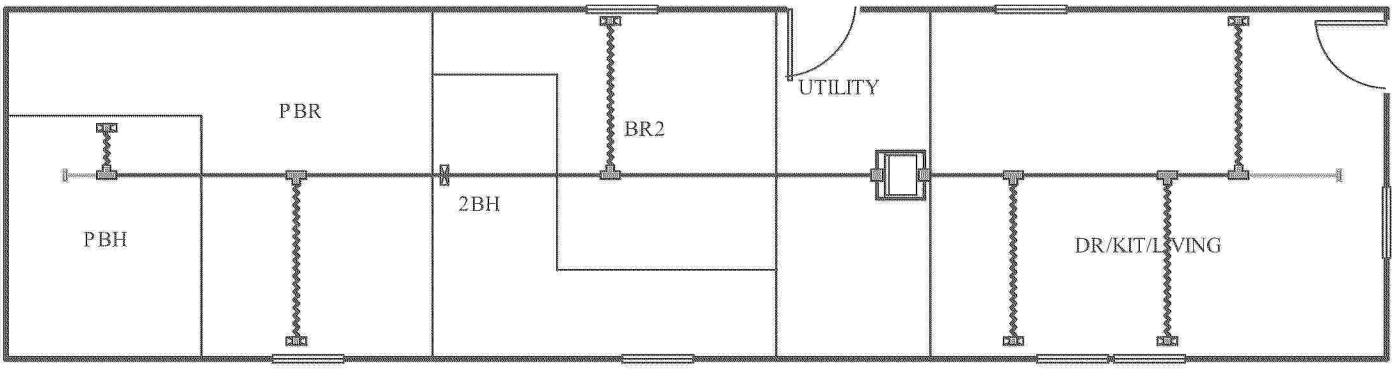
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Level 1



957-5400.4.2

Job #: 5400 (P) **Performed by CLAYTON ROCKWELL for:** 5400 (P) ROCKWELL, NC		Scale: 1 : 97 Page 1 Right-Suite® Universal 2023 23.0.04 RSU28035 2023-Nov-03 11:53:50 R:\WRITESOFT\MODELS\5400(P).rup

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Project Summary
Entire House

Job: 5400 (P)
Date: Apr 04, 2023
By: CLAYTON ROCKWELL

Project Information

For: 5400 (P), CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 26,000 BTU/HR

APPROVED BY
NTA INC. 11/8/2023
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Design Information

Weather: Fort Bragg/Simmons, NC, US

Winter Design Conditions

Outside db	26	°F
Inside db	70	°F
Design TD	44	°F

Summer Design Conditions

Outside db	95	°F
Inside db	75	°F
Design TD	20	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	41	gr/lb

Heating Summary

Structure	11212	Btuh
Ducts	0	Btuh
Central vent (45 cfm)	***2169***	Btuh
Outside air		
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	13381	Btuh

Sensible Cooling Equipment Load Sizing

Structure	10449	Btuh
Ducts	0	Btuh
Central vent (45 cfm)	***967***	Btuh
Outside air		
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	1.00	
Equipment sensible load	11381	Btuh

Infiltration

Method	Simplified
Construction quality	Semi-tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	859	859
Volume (ft³)	6874	6874
Air changes/hour	0.41	0.22
Equiv. AVF (cfm)	62	44

Latent Cooling Equipment Load Sizing

Structure	2002	Btuh
Ducts	0	Btuh
Central vent (45 cfm)	***1233***	Btuh
Outside air		
Equipment latent load	3235	Btuh
Equipment Total Load (Sen+Lat)	14616	Btuh
Req. total capacity at 0.70 SHR	1.4	ton

Heating Equipment Summary

Make	Smart Comfort
Trade	
Model	
AHRI ref	
Efficiency	100 EFF
Heating input	10.0 kW
Heating output	34121 Btuh
Temperature rise	40 °F
Actual air flow	780 cfm
Air flow factor	0.070 cfm/Btuh
Static pressure	0.30 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Smart Comfort
Trade	15 SEER2 AC
Cond	R4A5S24*K*WAA*
Coil	FEVA0024**+NAVA43601CK
AHRI ref	0
Efficiency	13.0 EER2,15.5 SEER2
Sensible cooling	16380 Btuh
Latent cooling	7020 Btuh
Total cooling	23400 Btuh
Actual air flow	780 cfm
Air flow factor	0.075 cfm/Btuh
Static pressure	0.30 in H2O
Load sensible heat ratio	0.78

957-5400.4.3

Bold/italic values have been manually overridden

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

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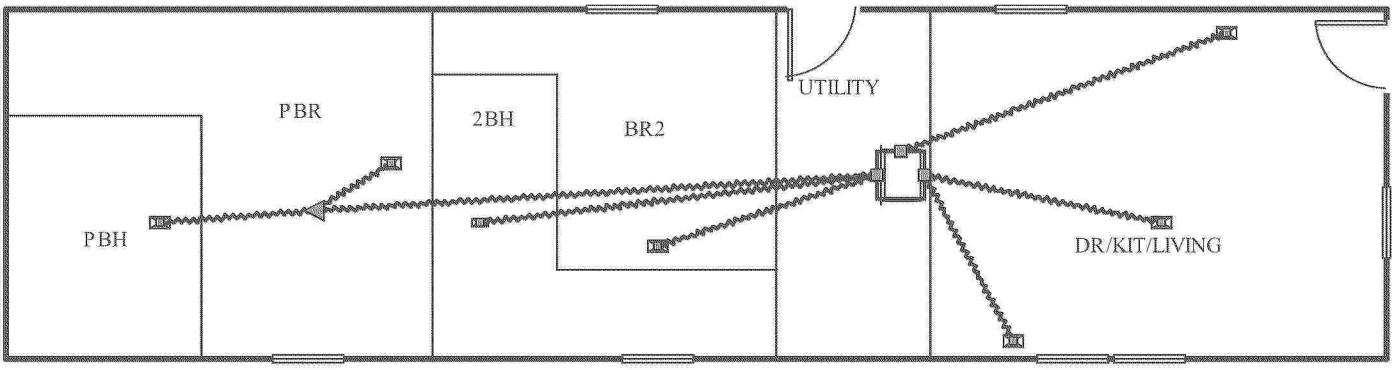
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Level 1



957-5400.4.4

Job #: 5400 (OVERHEAD) **Performed by CLAYTON ROCKWELL for:** 5400 (OVERHEAD) ROCKWELL, NC		Scale: 1 : 97 Page 1 Right-Suite® Universal 2023 23.0.04 RSU28035 2023-Nov-03 13:17:58 R:\WRITESOFT\MODELS\5400(OVH...

wrightsoft

Project Summary
Entire House

Job: 5400 (OVERHEAD)
Date: Apr 04, 2023
By: CLAYTON ROCKWELL

Project Information

For: 5400 (OVERHEAD), CLAYTON 957 ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 26,000 BTU/HR

APPROVED BY NTA INC. 11/8/2023
FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS

Design Information

Weather: SC 55

Winter Design Conditions

Outside db	28	°F
Inside db	70	°F
Design TD	42	°F

Summer Design Conditions

Outside db	95	°F
Inside db	75	°F
Design TD	20	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	34	gr/lb

Heating Summary

Structure	10581	Btuh
Ducts	0	Btuh
Central vent (45 cfm)	***2048***	Btuh
Outside air		
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	12630	Btuh

Sensible Cooling Equipment Load Sizing

Structure	10471	Btuh
Ducts	0	Btuh
Central vent (45 cfm)	***978***	Btuh
Outside air		
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	1.00	
Equipment sensible load	11437	Btuh

Infiltration

Method	Simplified
Construction quality	Semi-tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	859	859
Volume (ft³)	6874	6874
Air changes/hour	0.41	0.22
Equiv. AVF (cfm)	62	44

Latent Cooling Equipment Load Sizing

Structure	1813	Btuh
Ducts	0	Btuh
Central vent (45 cfm)	***1039***	Btuh
Outside air		
Equipment latent load	2852	Btuh
Equipment Total Load (Sen+Lat)	14290	Btuh
Req. total capacity at 0.70 SHR	1.4	ton

Heating Equipment Summary

Make	Smart Comfort
Trade	
Model	
AHRI ref	
Efficiency	100 EFF
Heating input	10.0 kW
Heating output	34121 Btuh
Temperature rise	40 °F
Actual air flow	780 cfm
Air flow factor	0.074 cfm/Btuh
Static pressure	0.30 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Smart Comfort
Trade	15 SEER2 AC
Cond	R4A5S24*K*WAA*
Coil	FEVA0024**+NAVA43601CK
AHRI ref	0
Efficiency	13.0 EER2,15.5 SEER2
Sensible cooling	16380 Btuh
Latent cooling	7020 Btuh
Total cooling	23400 Btuh
Actual air flow	780 cfm
Air flow factor	0.074 cfm/Btuh
Static pressure	0.30 in H2O
Load sensible heat ratio	0.80

957-5400.4.5

Bold/italic values have been manually overridden

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

CLAYTON HOME BUILDING GROUP

ZONES 1 & 2

Model Number	5400	Drawing Number	5400	Version 14

BOX SIZE: 15 ft. x 58.33 ft.
AVG. SIDEWALL HEIGHT = 8 FEET
PERCENTAGE OF CEILING THAT IS VAULTED = 0%

IN-FLOOR DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	R-22 FW	R-13	R-38
DAPIA PAGE	THP-164	THP-552	THP-2013
U VALUE (BTUH/SQ.FT.-F)	0.0454	0.0808	0.0297

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
14	0
Exterior Supply	**Length**
14	0
16	0
Exterior Return	**Length**
14	0
16	0

APPROVED BY NTA INC. 11/8/2023
FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS

		Area	U Value	UA
Doors:	Front	22.00	0.210	4.62
	Rear	22.00	0.260	5.72
	Other Door	0.00	0.330	0.00
	Other Door	0.00	0.330	0.00
	OSB	0.00	0.000	0.00
	Skylights	0.00	0.330	0.00
Window Glass Area:	Standard	108.00	0.300	32.40
	Option	0.00	0.300	0.00
Net:	Floor	874.95	0.045	39.72
	Wall	1021.28	0.081	82.52
	Ceiling	874.95	0.0297	25.99
Th. Zone 1:	Ext. Duct	0.00	0.000	0.00
Th. Zone 2:	Ext. Duct	0.00	0.000	0.00
Th. Zone 3:	Ext. Duct	0.00	0.000	0.00
Overhead TZ 1:	Supply	0.00	0.000	0.00
Overhead TZ 2:	Supply	0.00	0.000	0.00
Overhead TZ 3:	Supply	0.00	0.00	0.00

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	256.2
Th. Zone 2	109.5
Th. Zone 3	2.8

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
1	11	190.97	0.065	OK	293.60
2	0	190.97	0.065	OK	293.60
3	-14	190.97	0.065	NG	293.60

Design Temperatures

Furnace Heating Temp (F)	Economy Outdoor Temp (F)	
-46	-11	10kW
-69	-28	12kW
-104	-52	15kW
-66	-25	40k Gas
-134	-73	60k Gas
-202	-121	80k Gas

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
Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054

CLAYTON HOME BUILDING GROUP

ZONE 3

Model Number	5400	Drawing Number	5400	Version 14

BOX SIZE: 15 ft. x 58.33 ft.
AVG. SIDEWALL HEIGHT = 8 FEET
PERCENTAGE OF CEILING THAT IS VAULTED = 0%

IN-FLOOR DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	(2) R-11 OR / R-33 BIB	R-21	R-38
DAPIA PAGE	THP-3004	THP-560	THP-2013
U VALUE (BTUH/SQ.FT.-F)	0.0389	0.0541	0.0297

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
14	0
Exterior Supply	**Length**
14	0
16	0
Exterior Return	**Length**
14	0
16	0

APPROVED BY NTA INC. 11/8/2023
FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS

		Area	U Value	UA
Doors:	Front	22.00	0.210	4.62
	Rear	22.00	0.260	5.72
	Other Door	0.00	0.330	0.00
	Other Door	0.00	0.330	0.00
	OSB	0.00	0.000	0.00
	Skylights	0.00	0.330	0.00
Window Glass Area:	Standard	108.00	0.300	32.40
	Option	0.00	0.300	0.00
Net:	Floor	874.95	0.039	34.04
	Wall	1021.28	0.054	55.25
	Ceiling	874.95	0.0297	25.99
Th. Zone 1:	Ext. Duct	0.00	0.000	0.00
Th. Zone 2:	Ext. Duct	0.00	0.000	0.00
Th. Zone 3:	Ext. Duct	0.00	0.000	0.00
Overhead TZ 1:	Supply	0.00	0.000	0.00
Overhead TZ 2:	Supply	0.00	0.000	0.00
Overhead TZ 3:	Supply	0.00	0.00	0.00

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	374.1
Th. Zone 2	243.3
Th. Zone 3	148.2

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
1	11	158.01	0.054	OK	260.70
2	0	158.01	0.054	OK	260.70
3	-14	158.01	0.054	OK	260.70

Design Temperatures

Furnace Heating Temp (F)	Economy Outdoor Temp (F)	
-61	-22	10kW
-87	-40	12kW
-126	-67	15kW
-83	-37	40k Gas
-160	-91	60k Gas
-237	-145	80k Gas

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
Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054

CLAYTON HOME BUILDING GROUP

OVERHEAD HVAC

Model Number	5400	Drawing Number	5400	Version 14

BOX SIZE: 15 ft. x 58.33 ft.
AVG. SIDEWALL HEIGHT = 8 FEET
PERCENTAGE OF CEILING THAT IS VAULTED = 0%

OVERHEAD DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	R-22 FW	R-13	R-38
DAPIA PAGE	THP-164	THP-552	THP-2013
U VALUE (BTUH/SQ.FT.-F)	0.0454	0.0808	0.0297

Overhead Duct	
Diameter	Length
4	0
5	20
6	56
7	4
8	23
9	0
10	0
11	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0

APPROVED BY NTA INC. 11/8/2023
FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS

		Area	U Value	UA
Doors:	Front	22.00	0.210	4.62
	Rear	22.00	0.260	5.72
	Other Door	0.00	0.330	0.00
	Other Door	0.00	0.330	0.00
	OSB	0.00	0.000	0.00
	Skylights	0.00	0.330	0.00
Window Glass Area:	Standard	108.00	0.300	32.40
	Option	0.00	0.300	0.00
Net:	Floor	874.95	0.045	39.72
	Wall	1021.28	0.081	82.52
	Ceiling	874.95	0.0297	25.99
Th. Zone 1:	Ext. Duct	0.00	0.000	0.00
Th. Zone 2:	Ext. Duct	0.00	0.000	0.00
Th. Zone 3:	Ext. Duct	0.00	0.000	0.00
Overhead TZ 1:	Supply	5.88	0.242	1.42
Overhead TZ 2:	Supply	5.88	0.223	1.31
Overhead TZ 3:	Supply	5.88	0.21	1.21

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	249.7
Th. Zone 2	103.5
Th. Zone 3	0.0

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
1	11	192.39	0.066	OK	295.10
2	0	192.28	0.066	NG	294.90
3	-14	192.18	0.066	NG	294.80

Design Temperatures

Furnace Heating Temp (F)	Economy Outdoor Temp (F)	
-46	-11	10kW
-69	-27	12kW
-103	-51	15kW
-66	-25	40k Gas
-133	-72	60k Gas
-201	-120	80k Gas

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
Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054