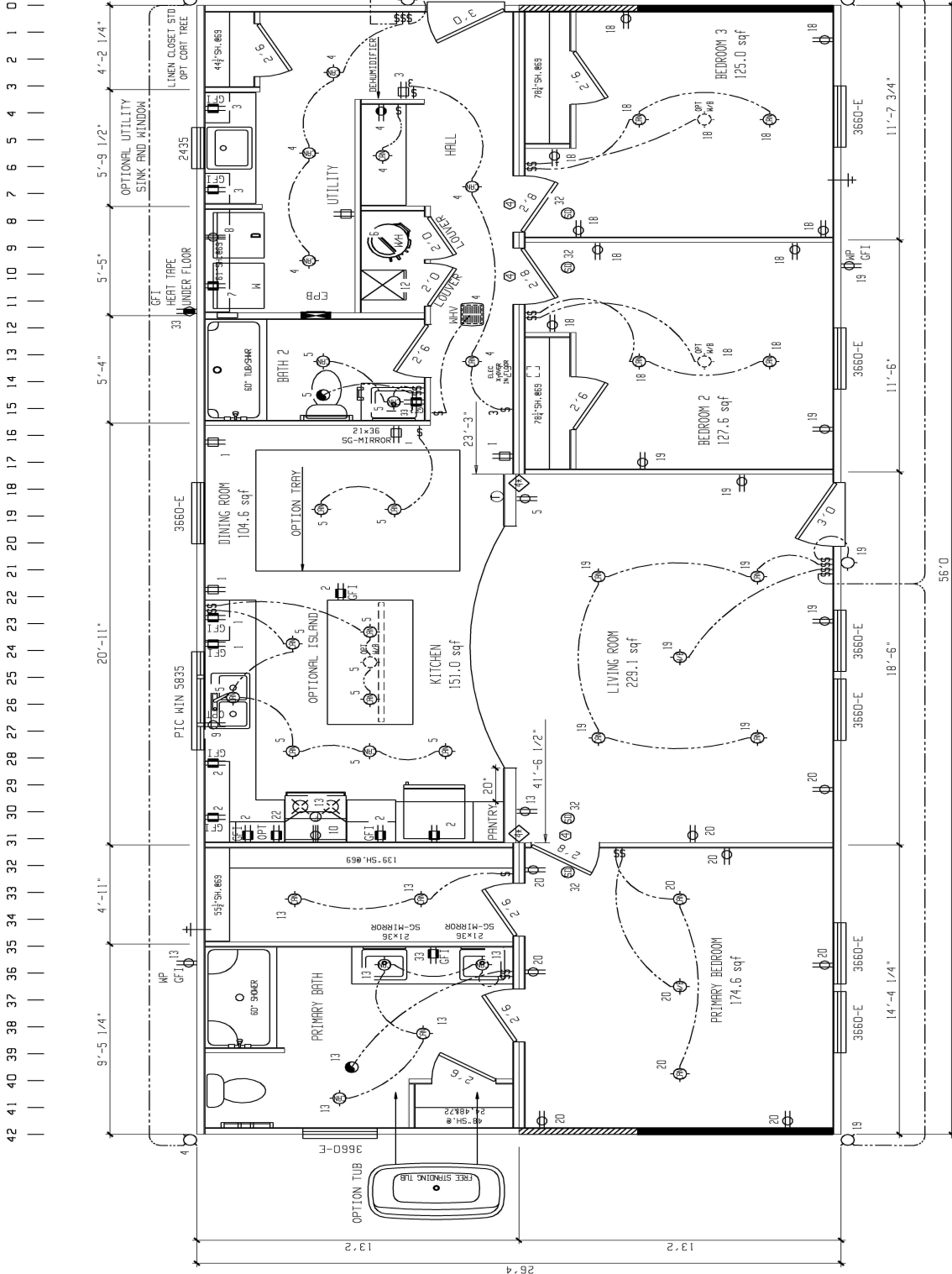




957-4210.0

RETURN AIR REQUIREMENTS		INDICATES REQUIRED NUMBER OF STUDS IN COLUMN	
1	20"x16" GRILL REQUIRED	1	DOOR UNDERCUT
2	4"x10" GRILL w/ 2 1/2" DOOR UNDERCUT	2	DOOR(S) MUST BE UNDERCUT 2 1/2" MIN. CAN BE NO HOLES IN STUDS IN COLUMNS
3	4"x24" OR 6"x14" GRILL REQUIRED	3	
4		4	
5		5	
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8		8	
9		9	
10		10	
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41		41	
42		42	

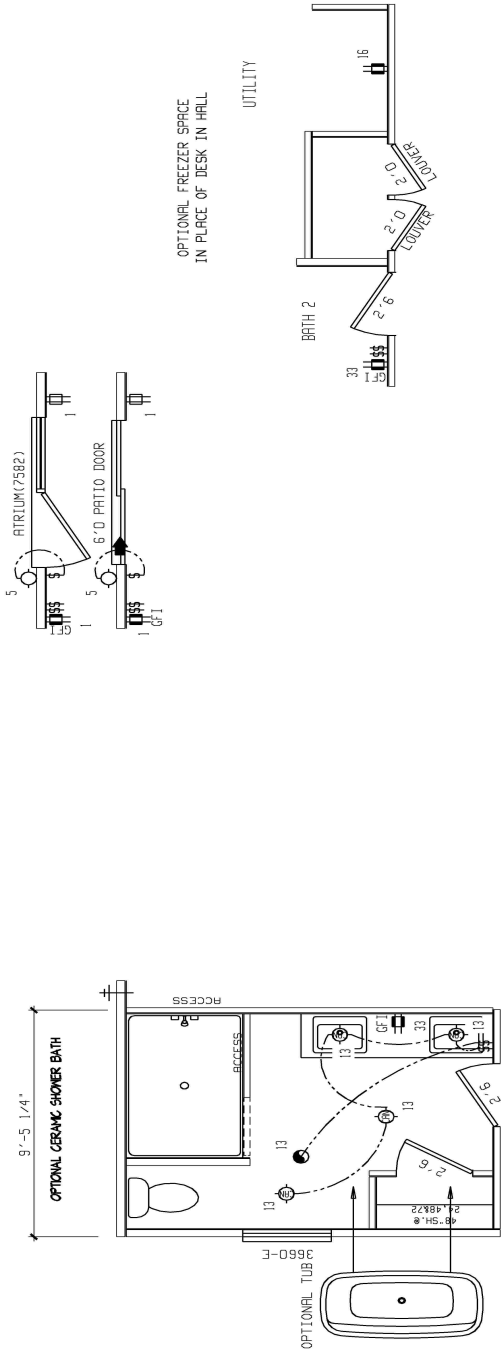
GENERAL NOTES		DRAWING TITLE	
CEILING HEIGHT = 96.00		MASTER PLAN	
REFER TO DATA PAGE MPF-2.0 FOR AREA LIGHT & VENT			
REFER TO DATA PAGE EL-1.2 FOR ELEC. SYMBOL & BRANCH CIRCUIT NUMBER			
FLOOR FINISHING SPACING = 16			
TOTAL WINDOW SQFT = 144			

REVISIONS		BY DATE	
1			
2			
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SERIES		BM28	
CLAYTON			
CLAYTON HOME BUILDING GROUP			

MODEL NAME		4210	
PLANT	DESCRIPTION	MODEL NO.	1474
957	28X56 3BR-2BA		
DRAWN BY	DATE	DATE PRINTED	SHEET NO.
GDB	05/08/2023	07/28/2023	1-1

42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0



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6/16/2023
NIA INC.
FEDERAL MANUFACTURING
CONSTRUCTION AND SAFETY TRAINING

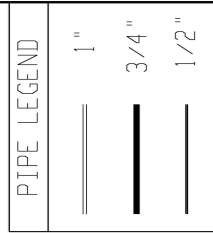
957-4210.0.1

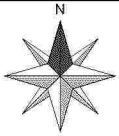
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CLAYTON HOME BUILDING 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APPROVED BY
NIA 6/16/2023
INC.
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Minimum Joist Spacing 16 "
No Offset Box
No Clerestory
No Origami Dormer
No Sunken Floor
No Parapet Roof

[illegible]



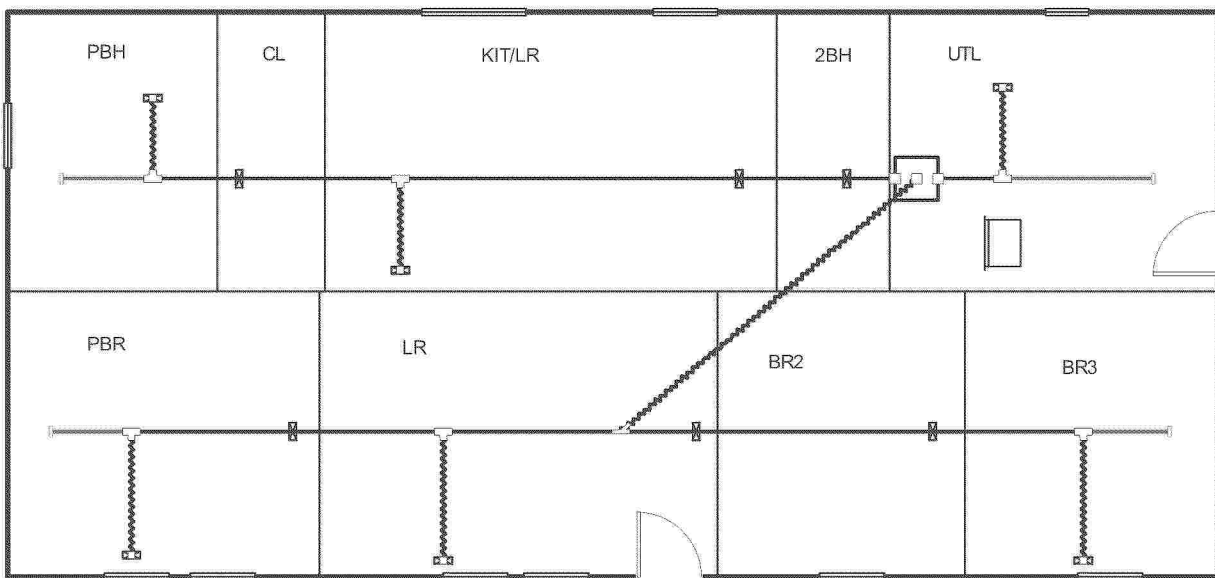
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NIA INC.

6/16/2023

FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Level 1



957-4210.4.1

Job #: 4210(I)
Performed by **CLAYTON ROCKWELL** for:
4210(I)
ROCKWELL, NC

Scale: 1 : 101
Page 1
Right-Suite® Universal 2023
23.0.01 RSU28036
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Project Summary Entire House



Job: 4210(I)
Date: June 15, 2023
By: CLAYTON ROCKWELL

Project Information

For: 4210(I), CLAYTON 957
ROCKWELL, NC

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

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	15517 Btuh
Ducts	0 Btuh
Central vent (90 cfm)	4338 Btuh
Outside air	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	19855 Btuh

Sensible Cooling Equipment Load Sizing

Structure	12359 Btuh
Ducts	0 Btuh
Central vent (90 cfm)	1933 Btuh
Outside air	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	1.00
Equipment sensible load	14250 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

Latent Cooling Equipment Load Sizing

Structure	2040 Btuh
Ducts	0 Btuh
Central vent (90 cfm)	2465 Btuh
Outside air	
Equipment latent load	4506 Btuh

	Heating	Cooling
Area (ft²)	1477	1477
Volume (ft³)	11813	11813
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	89	45

Equipment Total Load (Sen+Lat)	18755 Btuh
Req. total capacity at 0.70 SHR	1.7 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	0.050 cfm/Btuh
Static pressure	0.30 in H2O
Space thermostat	

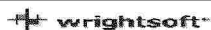
Cooling Equipment Summary

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	0.063 cfm/Btuh
Static pressure	0.30 in H2O
Load sensible heat ratio	0.76

957-4210.4.2

Bold/italic values have been manually overridden

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



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Page 1



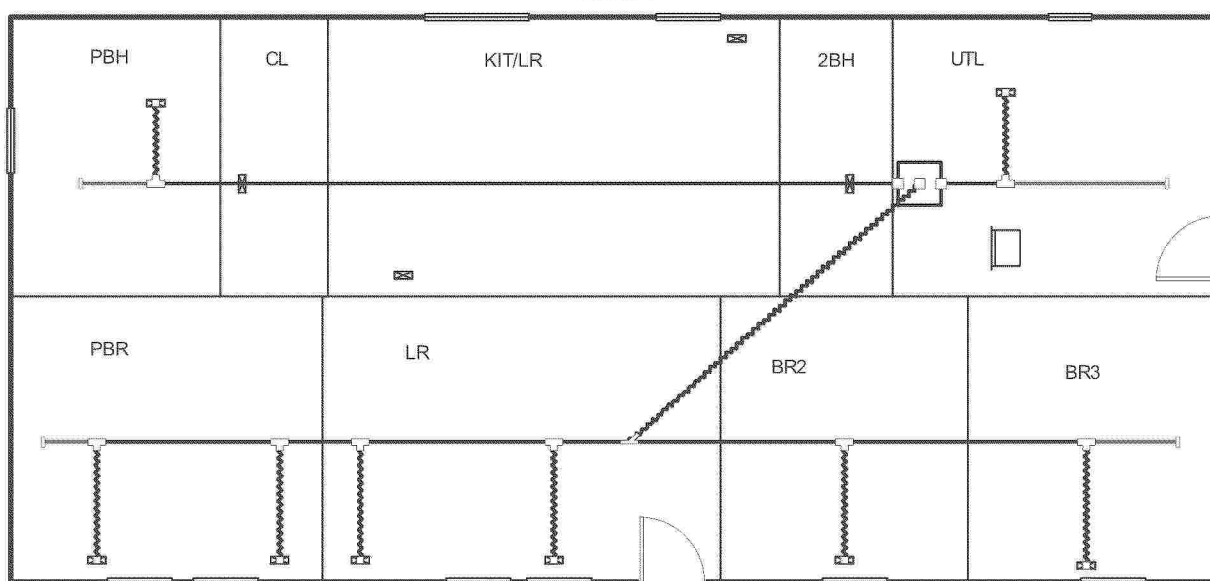
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NIA INC.

6/16/2023

FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Level 1



957-4210.4.3

Job #: 4210(P)
Performed by **CLAYTON ROCKWELL** for:
4210(P)
ROCKWELL, NC

Scale: 1 : 101
Page 1
Right-Suite® Universal 2023
23.0.01 RSU28036
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Project Summary Entire House

Job: 4210(P)
Date: June 15, 2023
By: CLAYTON ROCKWELL

Project Information

For: 4210(P), CLAYTON 957
ROCKWELL, NC

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

APPROVED BY
NIA INC. 6/16/2023
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	15517 Btuh
Ducts	0 Btuh
Central vent (90 cfm)	4338 Btuh
Outside air	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	19855 Btuh

Sensible Cooling Equipment Load Sizing

Structure	14334 Btuh
Ducts	0 Btuh
Central vent (90 cfm)	1933 Btuh
Outside air	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	1.00
Equipment sensible load	16219 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

Latent Cooling Equipment Load Sizing

Structure	2040 Btuh
Ducts	0 Btuh
Central vent (90 cfm)	2465 Btuh
Outside air	
Equipment latent load	4506 Btuh

	Heating	Cooling
Area (ft²)	1477	1477
Volume (ft³)	11813	11813
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	89	45

Equipment Total Load (Sen+Lat)	20725 Btuh
Req. total capacity at 0.70 SHR	1.9 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	0.050 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	0.054 cfm/Btuh
Static pressure	0.30 in H2O
Load sensible heat ratio	0.78

957-4210.4.4

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



Wrightsoft

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