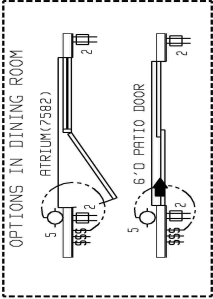
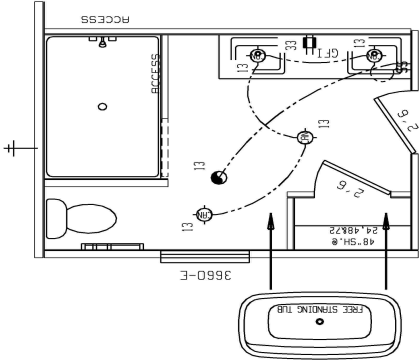


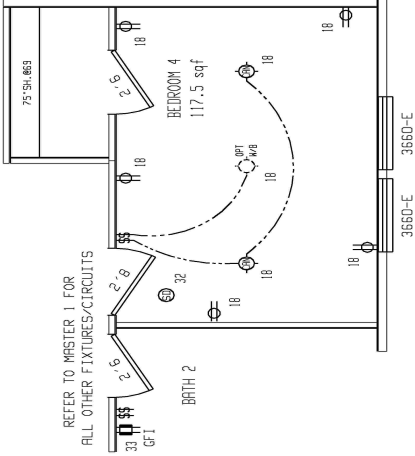
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OPTIONAL CERAMIC SHOWER BATH



APPROVED BY
REVISED
8/10/2023
NIA INC.
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS



957-5415.0.1

OPTIONAL 4TH BEDROOM
IN PLACE OF FAMILY ROOM

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CLAYTON HOME BUILDING GROUP										CLAYTON										SERIES										HR28										BRAND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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APPROVED BY
NIA 7/13/2023
INC.
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Box Width =	158 "	Double wide
Box Length =	64 ft.	99.5" 10" MIN
No Skylights		
No Porches		
Joist Size =	#2 spf 2x6	Laas 9Mx3"

No Offset Box
No Clerestory
No Origami Dormer
No Sunken Floor
No Parapet Roof

[illegible]

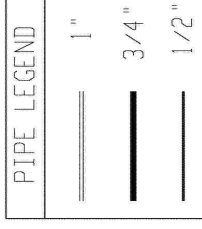
Designed by KKK

5415 shear calcs.xlsm

OPTIONAL CERAMIC SHOWER BATH

NTA INC. 7/13/2023

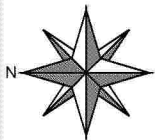
**FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS**



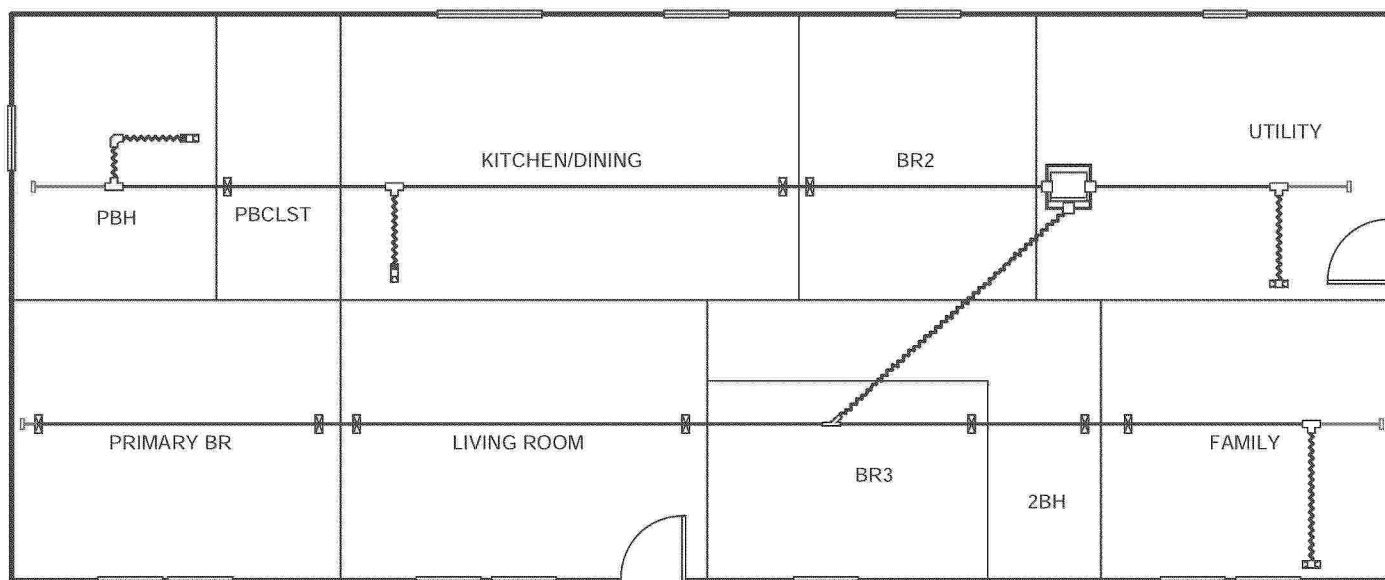
HOT WATER SUPPLY PLUMBING

SUPPLY PLUMBING

CLAYTON HOME BUILDING GROUP



Level 1



957-5415.4.1

Project Information

For: 5415(inline), CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 31767 BTU/HR

APPROVED BY



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 16122 Btuh
Ducts 0 Btuh
Central vent (90 cfm) 4338 Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 20460 Btuh

Sensible Cooling Equipment Load Sizing

Structure 15648 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 17529 Btuh

Infiltration

Method Simplified
Construction quality Semi-tight
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 1766 Btuh
Ducts 0 Btuh
Central vent (90 cfm) 2465 Btuh
Outside air
Equipment latent load 4232 Btuh
Equipment Total Load (Sen+Lat) 21761 Btuh
Req. total capacity at 0.70 SHR 2.1 ton

	Heating	Cooling
Area (ft ²)	1680	1680
Volume (ft ³)	15120	15120
Air changes/hour	0.26	0.14
Equiv. AVF (cfm)	66	35

Heating Equipment Summary

Make Smart Comfort
Trade
Model
AHRI ref
Efficiency 100 EFF
Heating input 10.0 kW
Heating output 34121 Btuh
Temperature rise 33 °F
Actual air flow 953 cfm
Air flow factor 0.059 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat

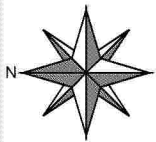
Cooling Equipment Summary

Make Smart Comfort
Trade PERFORMANCE 14 SEER2 AC
Cond R4A4S30*K*NAA*
Coil FEVA0036**+NAVA43601CK
AHRI ref 0
Efficiency 12.5 EER2, 15 SEER2
Sensible cooling 20020 Btuh
Latent cooling 8580 Btuh
Total cooling 28600 Btuh
Actual air flow 953 cfm
Air flow factor 0.061 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.81

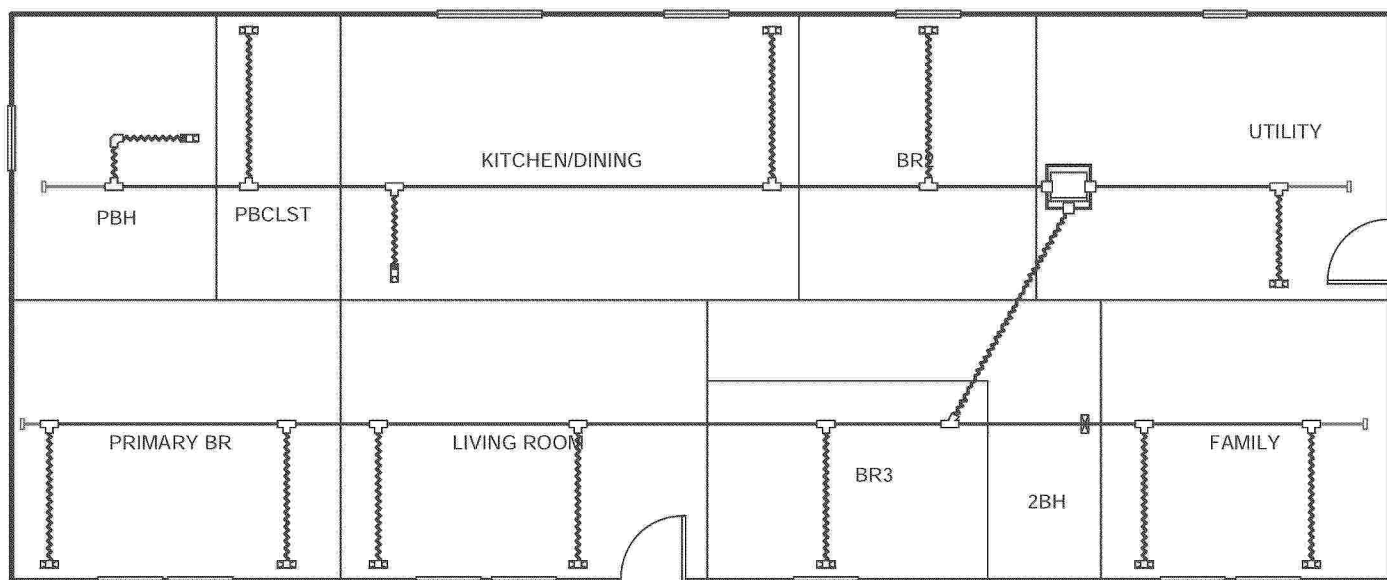
957-5415.4.2

Bold/italic values have been manually overridden

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



Level 1



957-5415.4.3

Project Information

For: 5415(perimeter), CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 31767 BTU/HR

APPROVED BY



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 16122 Btuh
Ducts 0 Btuh
Central vent (90 cfm) **4338** Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 20460 Btuh

Sensible Cooling Equipment Load Sizing

Structure 15648 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 17529 Btuh

Infiltration

Method Simplified
Construction quality Semi-tight
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 1766 Btuh
Ducts 0 Btuh
Central vent (90 cfm) **2465** Btuh
Outside air
Equipment latent load 4232 Btuh
Equipment Total Load (Sen+Lat) 21761 Btuh
Req. total capacity at 0.70 SHR 2.1 ton

	Heating	Cooling
Area (ft ²)	1680	1680
Volume (ft ³)	15120	15120
Air changes/hour	0.26	0.14
Equiv. AVF (cfm)	66	35

Heating Equipment Summary

Make Smart Comfort
Trade
Model
AHRI ref
Efficiency 100 EFF
Heating input 10.0 kW
Heating output 34121 Btuh
Temperature rise 33 °F
Actual air flow 953 cfm
Air flow factor 0.059 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat

Cooling Equipment Summary

Make Smart Comfort
Trade PERFORMANCE 14 SEER2 AC
Cond R4A4S30*K*NAA*
Coil FEVA0036**+NAVA43601CK
AHRI ref 0
Efficiency 12.5 EER2, 15 SEER2
Sensible cooling 20020 Btuh
Latent cooling 8580 Btuh
Total cooling 28600 Btuh
Actual air flow 953 cfm
Air flow factor 0.061 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.81

957-5415.4.4

Bold/italic values have been manually overridden

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

CLAYTON HOME BUILDING GROUP

5415 ZN 1&2 WITH PATIO/ATRIUM OPT

Model Number	57HRC28643AH	Drawing Number	5415	Version 13
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BOX SIZE: 26.33 ft. x 64 ft.

AVG. SIDEWALL HEIGHT = 8 FEET

PERCENTAGE OF CEILING THAT IS VAULTED = 0%

12 INCH DIAMETER XOVER DUCT AREA = 78.5 SQ.FT. MAX. WITH R-8 INSULATION

IN-FLOOR DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	R-22 FW	R-13	R-38
DAPIA PAGE	THP-161	THP-552	THP-1484
U VALUE (BTUH/SQ.FT.-F)	0.045	0.0808	0.0285



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

Window Glass Area:

Doors:

	Area	U Value	UA
Front	22.00	0.210	4.62
Rear	22.00	0.260	5.72
Other Door	43.00	0.280	12.04
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	159.00	0.300	47.70
Option	0.00	0.300	0.00
Floor	1685.33	0.045	75.00
Wall	1199.33	0.081	96.91
Ceiling	1685.33	0.0285	48.03
Ext. Duct	78.50	0.242	18.98
Ext. Duct	78.50	0.223	17.48
Ext. Duct	78.50	0.206	16.14
Supply	0.00	0.000	0.00
Supply	0.00	0.000	0.00
Supply	0.00	0.00	0.00

Th. Zone 1:

Th. Zone 2:

Th. Zone 3:

Overhead TZ 1:

Overhead TZ 2:

Overhead TZ 3:

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	321.3
Th. Zone 2	171.8
Th. Zone 3	0.0

Outdoor

	Design Temp (F)	UA	Uo	Heatloss BTUH/F
Thermal Zone 1	11	309.00	0.063	435.50
Thermal Zone 2	0	307.50	0.063	434.00
Thermal Zone 3	-14	306.15	0.063	432.60

Design Temperatures

Furnace Heating Temp (F)	Economy Outdoor Temp (F)	
-8	15	10kW
-24	4	12kW
-48	-12	15kW
-22	6	40k Gas
-68	-26	60k Gas
-114	-59	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

5415 ZN 3 WITH PATIO/ATRIUM OPT

Model Number	57HRC28643AH	Drawing Number	5415	Version 13
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BOX SIZE: 26.33 ft. x 64 ft.

AVG. SIDEWALL HEIGHT = 8 FEET

PERCENTAGE OF CEILING THAT IS VAULTED = 0%

12 INCH DIAMETER XOVER DUCT AREA = 78.5 SQ.FT. MAX. WITH R-8 INSULATION

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-3001	THP-560	THP-1484
U VALUE (BTUH/SQ.FT.-F)	0.037	0.0541	0.0285



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

Doors:

Window Glass Area:

Net:

Th. Zone 1:

Th. Zone 2:

Th. Zone 3:

Overhead TZ 1:

Overhead TZ 2:

Overhead TZ 3:

	Area	U Value	UA
Front	22.00	0.210	4.62
Rear	22.00	0.260	5.72
Other Door	43.00	0.280	12.04
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	159.00	0.300	47.70
Option	0.00	0.300	0.00
Floor	1685.33	0.037	62.53
Wall	1199.33	0.054	64.88
Ceiling	1685.33	0.0285	48.03
Ext. Duct	78.50	0.242	18.98
Ext. Duct	78.50	0.223	17.48
Ext. Duct	78.50	0.206	16.14
Supply	0.00	0.000	0.00
Supply	0.00	0.000	0.00
Supply	0.00	0.00	0.00

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	484.6
Th. Zone 2	351.4
Th. Zone 3	177.7

Outdoor

Design

Temp (F)

Thermal Zone 1

Thermal Zone 2

Thermal Zone 3

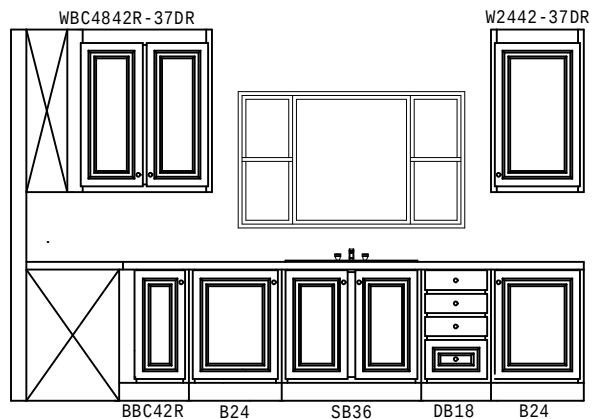
	UA	Uo	Heatloss BTUH/F
11	264.51	0.054	391.00
0	263.00	0.054	389.50
-14	261.66	0.053	388.10

Design Temperatures

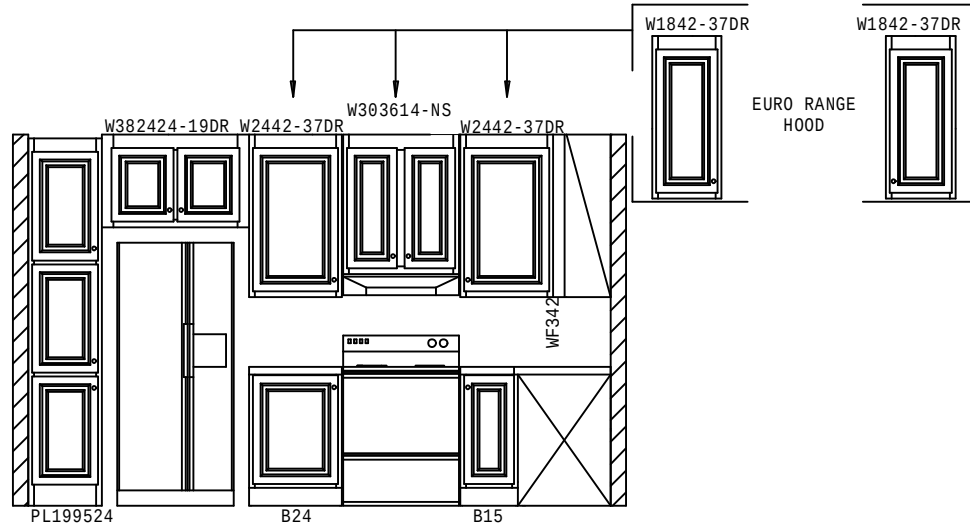
Furnace Heating Temp (F)	Economy Outdoor Temp (F)	
-17	9	10kW
-35	-3	12kW
-61	-22	15kW
-32	-2	40k Gas
-83	-37	60k Gas
-135	-73	80k Gas

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

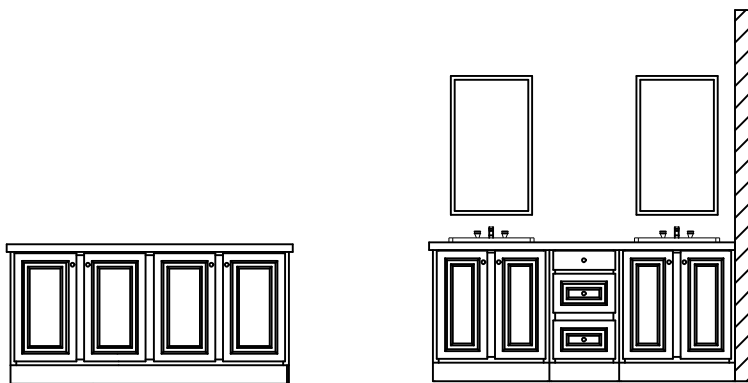
Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054



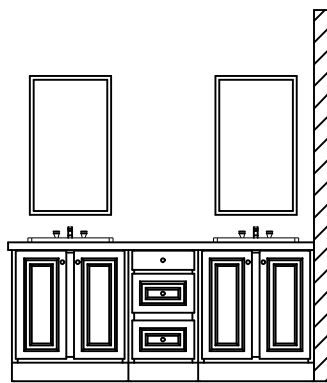
CABINET ELEVATION A



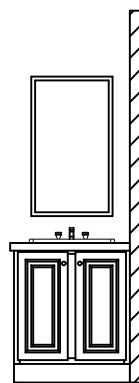
CABINET ELEVATION B



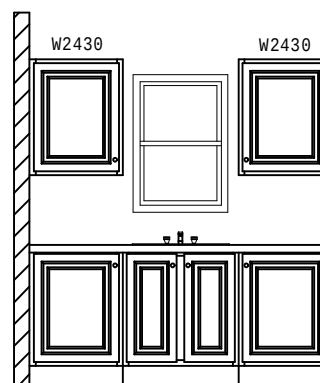
CABINET ELEVATION C



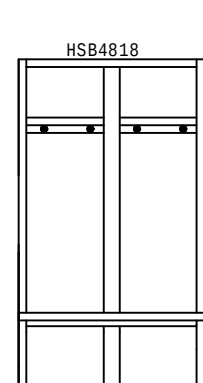
CABINET ELEVATION D



CABINET ELEVATION E



CABINET ELEVATION F
UTILITY SINK OPTION



CABINET ELEVATION G
COAT TREE OPTION

BRAND CLAYTON		SERIES HR28		REVISIONS		BY	DATE	GENERAL NOTES		DRAWING TITLE		MODEL NAME		SQ. FT.
CLAYTON HOME BUILDING GROUP								CAB TRIM, MIRROR TRIM & MIRROR FASTENING PER SPECS	CABINET ELEVATION-1		5415		1685	
											PLANT	DESCRIPTION	MODEL NO.	
				957	28X64 3BR-2BA	5415								
				DRAWN BY	ORIG. DATE	DATE PRINTED	SHEET NO.							
				KLK	05/17/2023	08/24/2023	17-1							