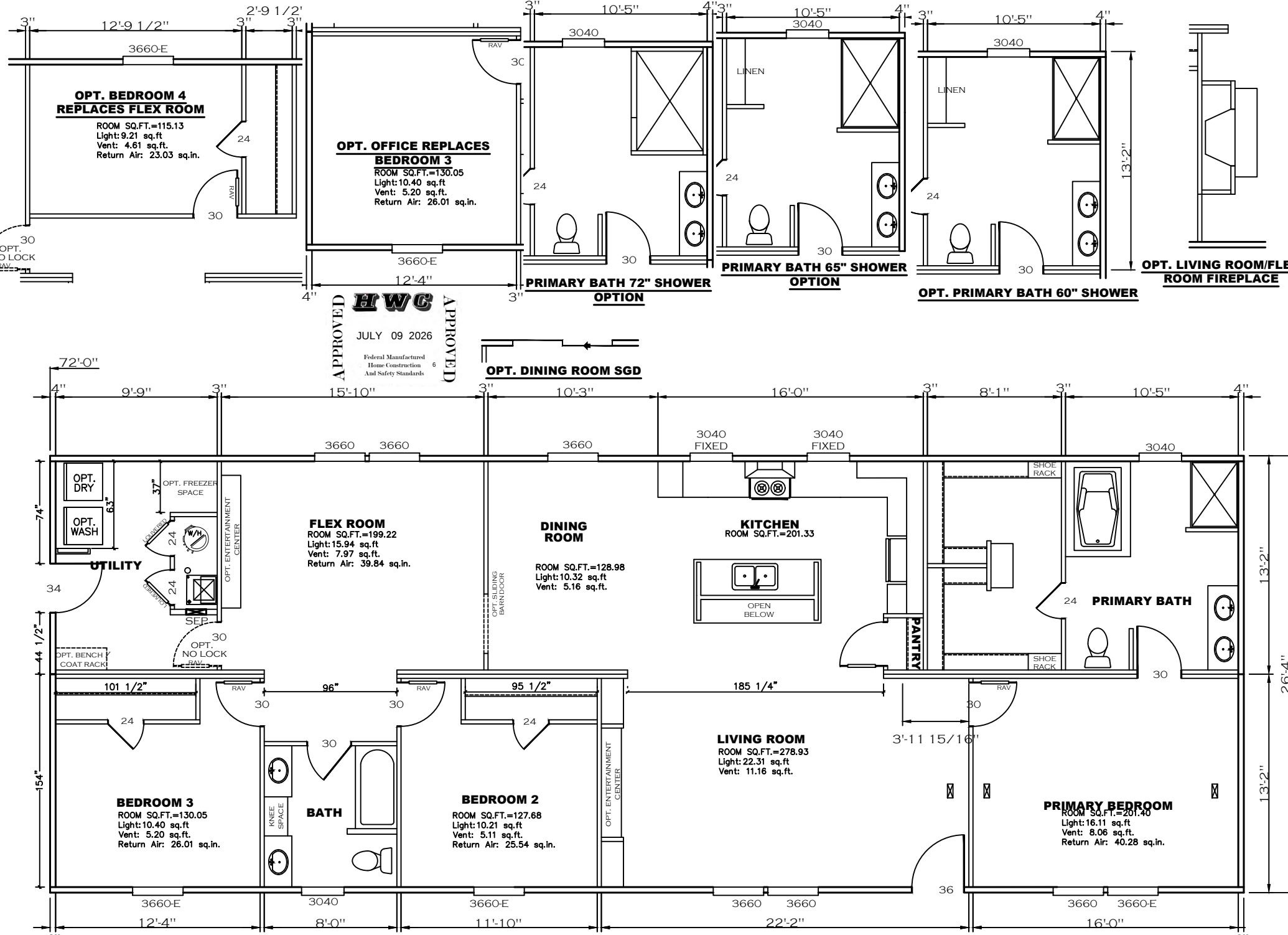
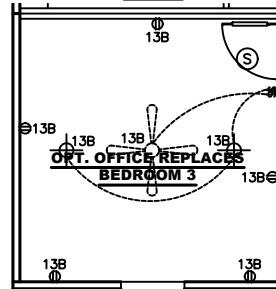
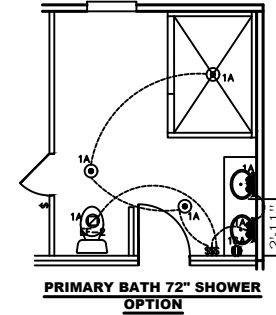
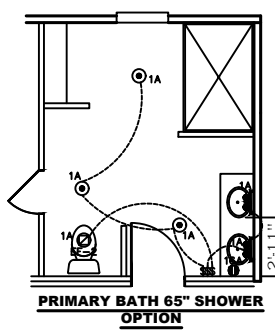
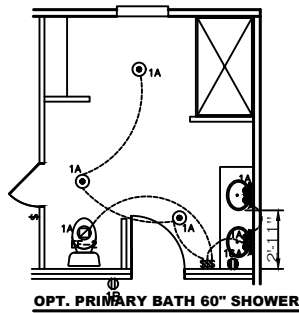
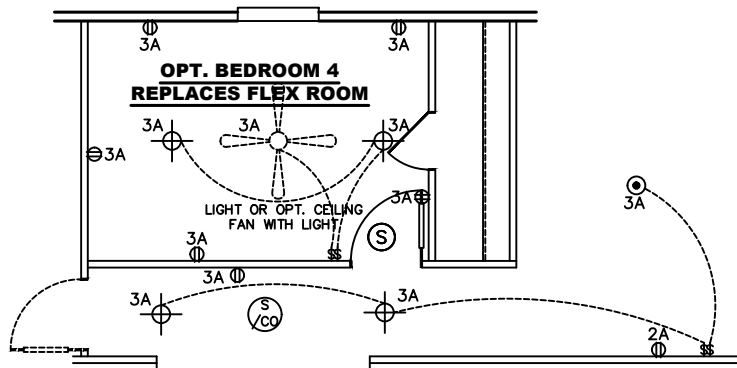




SHEET:		DRAWING #:		MODEL:		STD PLAN "CONDITIONED":	
FP		34M406-FP		MOUNTAINEER 72 (28'x72')		1,896 Ft²	
FLOOR PLAN		MODEL #:		SERIES:		REV. BY:	
		MTN28724A		MOUNTAINEER			
		DATE:		SCALE:		PRODUCT DESIGNER:	
		6/7/2026		N.T.S.		BRIAN K. RIFFEY	
						REV. DATE:	

Clayton Clayton - 934
1420 Mountain Rd, Andersonville, TN 37705
PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER,
AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVE.
CLEARWATER, FL. 33756



- NOTES:**
1. ALL CIRCUITS SHOWN ARE FOR REFERENCE AND MAY BE CHANGED BASED ON OPTIONAL COMPONENTS INSTALLED IN THE HOME.
 2. REFER TO EL SECTION OF THE DAPIA FOR SYMBOL CHART.
 3. EITHER LIGHT OR RECEPTACLE MUST CONNECT TO SWITCH.
 4. EF-1= 50 CFM EXHAUST FAN REQUIRED FOR THERMAL ZONE III THERMAL ZONES I & II MAY USE FAN OR WINDOW W/1.5 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 PER REQUIREMENTS IN S-HV-10 & 10A OR M-HV-11 & 11A OF DAPIA.
 8. REFER TO EL SECTION OF THE DAPIA OR THE MFG. 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. DIMENSIONS SHOWN ON PRINT ARE APPROXIMATE AND TO BE USED ONLY AS A GUIDELINE.
 11. LOUVERED DOORS SERVE AS RETURN AIR VENT.

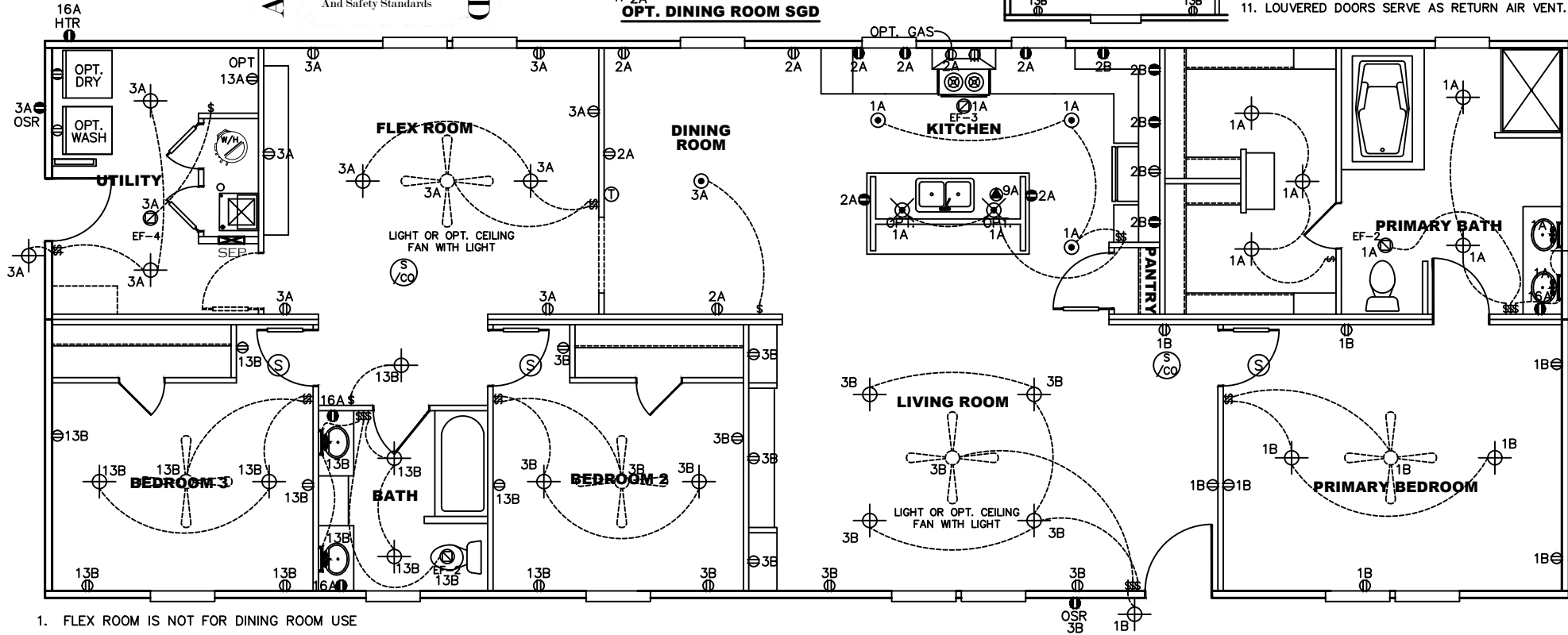
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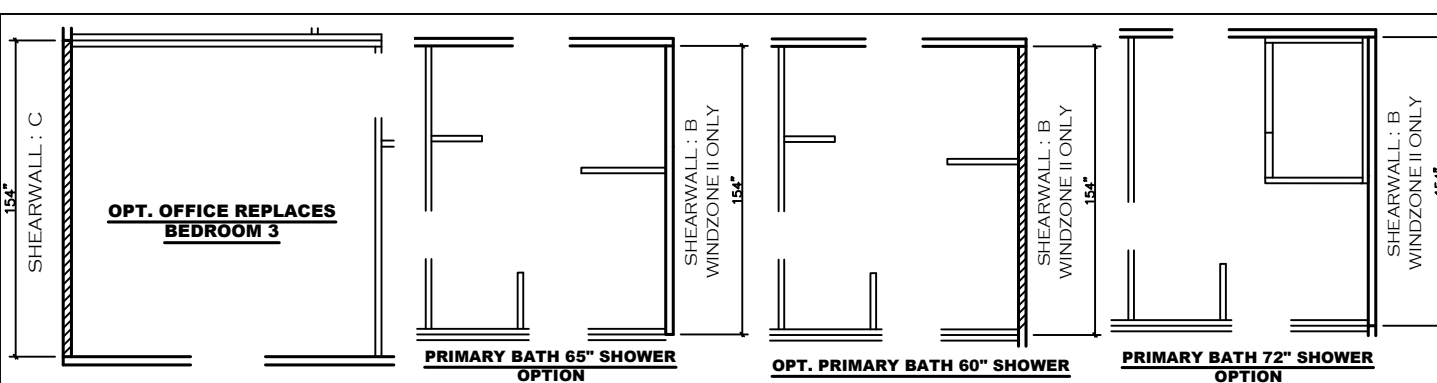
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Federal Manufactured Home Construction And Safety Standards



CIRCUIT	CIRCUIT #	WIRE	BREAKER	CIRCUIT	CIRCUIT #	WIRE	BREAKER	CIRCUIT	CIRCUIT #	WIRE	BREAKER
LIGHT/RECEP	1A,1B,3A,3B,13B	14-2	15-SP	WATER HEATER	4A,6B	SEE NOTE #8		BTHRM/HTR	16A	12-2	20-SP
KITCHEN	2A,2B	12-2	20-SP	RANGE	5B,7A	SEE NOTE #8		OPT G/DISP	9B	SEE NOTE #8	
WASHER	12A	12-2	20-SP	FURNACE	6A,8A,B,10A,B	SEE NOTE #8		OPT SPA/ WP/JAC	N/A	SEE NOTE #8	
DRYER	5A,7B	SEE NOTE #8		OPT D/WASH	9A	SEE NOTE #8		FREEZER	13A	SEE NOTE #8	
				SMOKE ALARM	4B	SEE NOTE #8					



Model # 34M406

Box Width = 158"

Box Length = 72 ft.

No Skylights

No Porches

Joist Size = #2 sp 2x6

Double wide

99.5" 12" MIN. BEAM

Lags 96x3"

Minimum Joist Spacing 16"

No Offset Box

No Clearestory

No Origami Domes

No Sunken Floor

No Parapet Roof

Version R14.01

Wind Zone 1 Standard Roof

7/16" Rated Sheathing and Ceiling Board with 15 ga staple @ 6/12 (286,315) Chords: 2x4 SPF #3d Top Plate & 1x4 SPF Rail Each spliced w/2x4 MCP

96 inch sidewall

Diaphragm Construction

Block Dist. X=0'

Shearwall	Dist / Hitch	Length	PLF	# of Joists	Lags	Notes
A	0"	112"	250	2	2/1	
C	72"	112"	250	2	2/1	

Wind Zone 2 Standard Roof

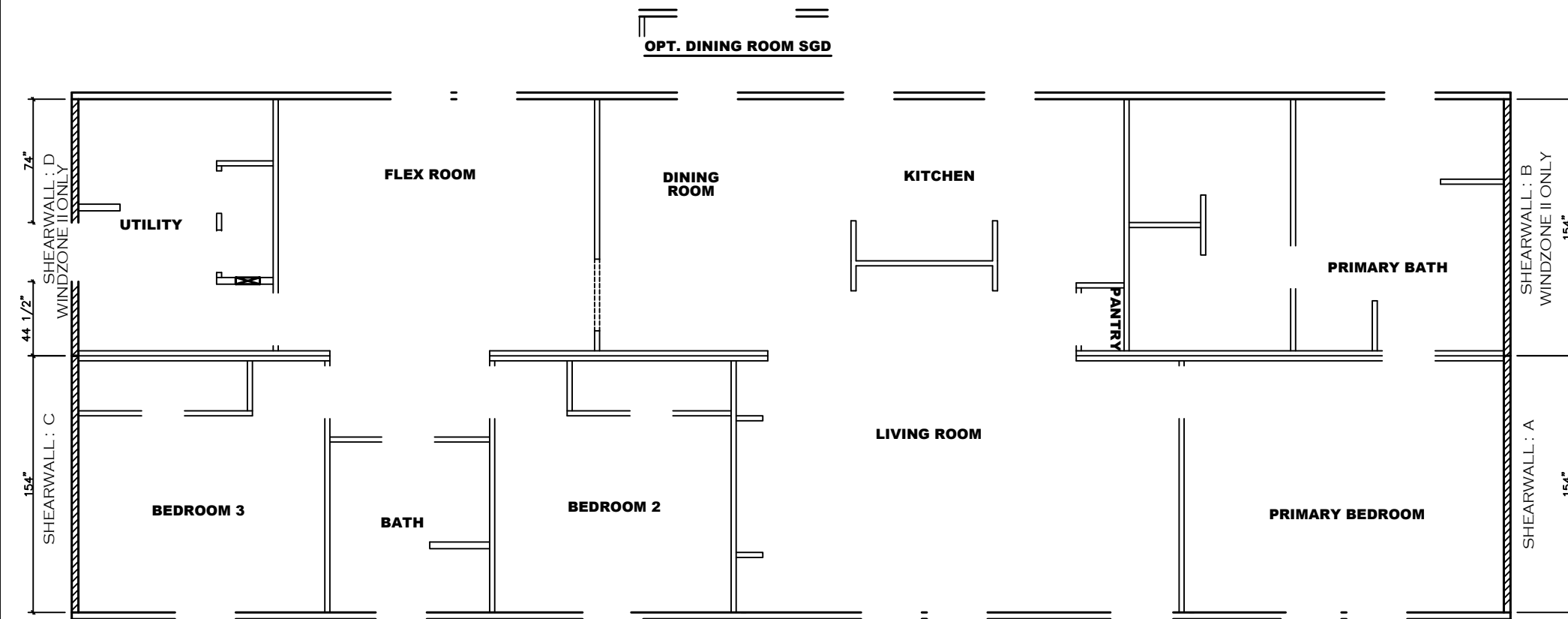
7/16" Rated Sheathing and Ceiling Board with 15 ga staple @ 6/12 (286,315) Chords: 2x4 SPF #3 Top Plate spliced w/ 2.5x6 MCP & 2x4 SPF #3 Rail spliced w/ 12" glue block

96 inch sidewall

Diaphragm Construction

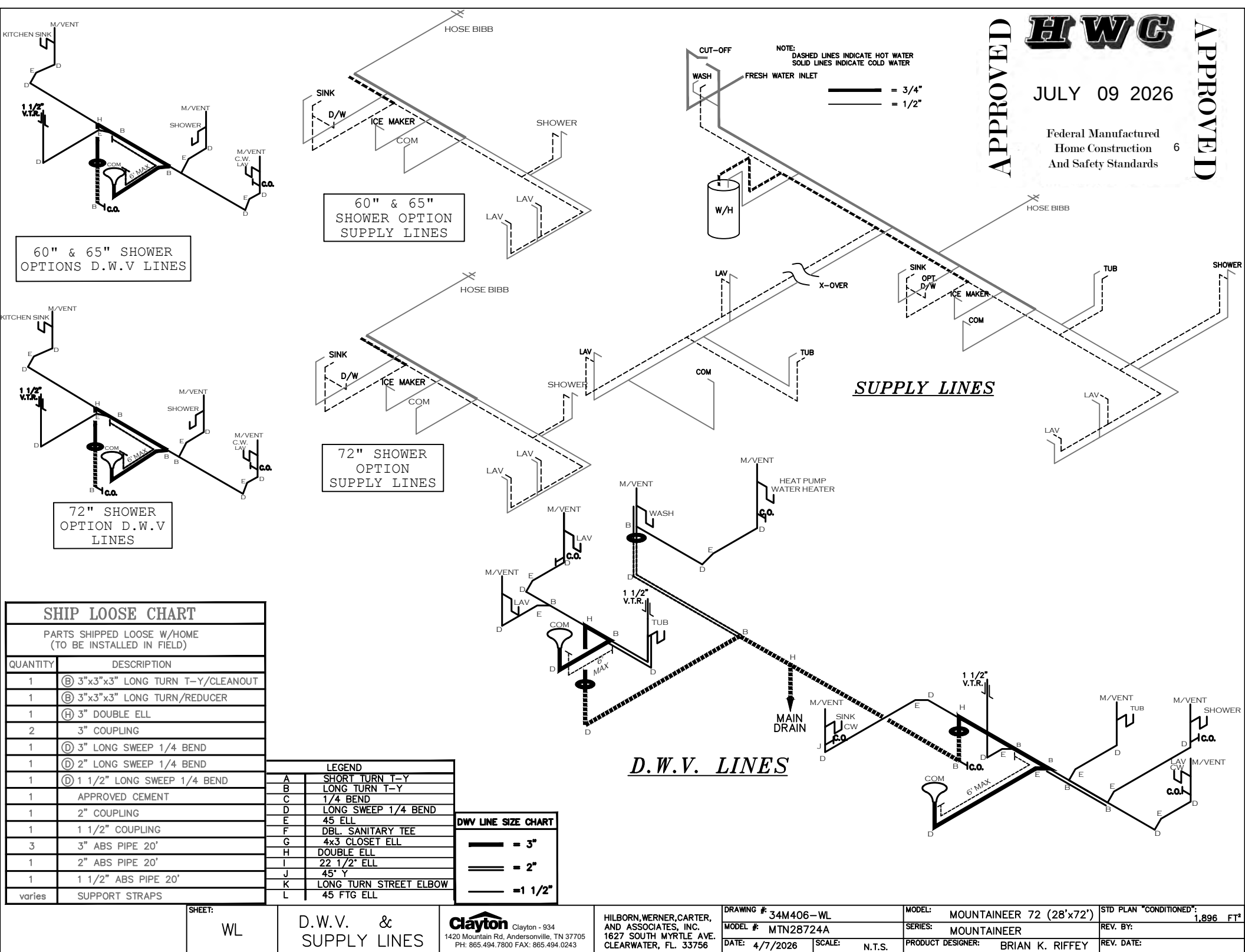
Block Dist. X=0'

Shearwall	Dist / Hitch	Length	PLF	# of Joists	Lags	Notes
A	0"	136"	250	2	3/2	SW1/SW2
B	0"	136"	250	2	3/2	
C	72"	128"	300	2	3/2	
D	72"	115.5"	300	2	3/3	Split Shearwall 71/44.5



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And Safety Standards

SHEET: SW		SHEARWALL PLAN		 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243		HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756		DRAWING #: 34M406-SW		MODEL: MOUNTAINEER 72 (28'x72')		STD PLAN "CONDITIONED": 1,896 FT ²	
								MODEL #: MTN28724A		SERIES: MOUNTAINEER		REV. BY:	
								DATE: 6/7/2026		SCALE: N.T.S.		PRODUCT DESIGNER: BRIAN K. RIFFEY	
												REV. DATE:	



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Home Construction
And Safety Standards

6

60" & 65" SHOWER
OPTIONS D.W.V. LINES

60" & 65" SHOWER OPTION
SUPPLY LINES

72" SHOWER
OPTION D.W.V.
LINES

72" SHOWER
OPTION
SUPPLY LINES

SUPPLY LINES

D.W.V. LINES

SHIP LOOSE CHART

PARTS SHIPPED LOOSE W/HOME
(TO BE INSTALLED IN FIELD)

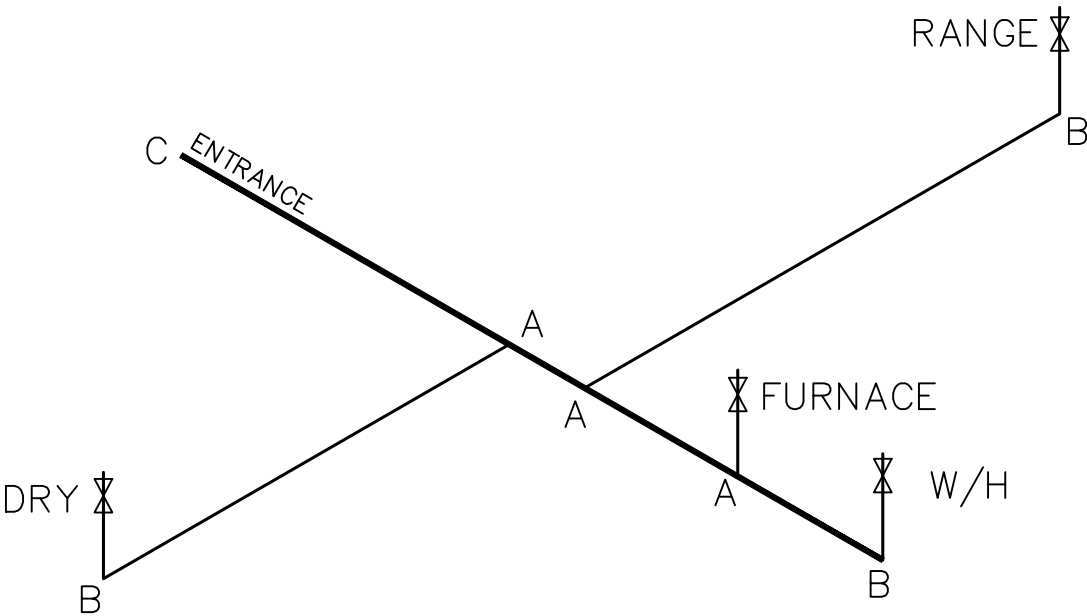
QUANTITY	DESCRIPTION
1	(B) 3"x3"x3" LONG TURN T-Y/CLEANOUT
1	(B) 3"x3"x3" LONG TURN/REDUCER
1	(H) 3" DOUBLE ELL
2	3" COUPLING
1	(D) 3" LONG SWEEP 1/4 BEND
1	(D) 2" LONG SWEEP 1/4 BEND
1	(D) 1 1/2" LONG SWEEP 1/4 BEND
1	APPROVED CEMENT
1	2" COUPLING
1	1 1/2" COUPLING
3	3" ABS PIPE 20'
1	2" ABS PIPE 20'
1	1 1/2" ABS PIPE 20'
varies	SUPPORT STRAPS

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	DBL. SANITARY TEE
G	4x3 CLOSET ELL
H	DOUBLE ELL
I	22 1/2" ELL
J	45° Y
K	LONG TURN STREET ELBOW
L	45 FTG ELL

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

LEGEND		APPLIANCE BTU's RATINGS MAX. INPUT	
SYM	FITTINGS		
A	TEE	FURNACE	70,000 BTU'S
B	90 ELL	W/H	42,000 BTU'S
X	VALVE	RANGE	54,000 BTU'S
C	CAP	DRYER	30,000 BTU'S

MDL=60'



- 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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Federal Manufactured
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GAS LINE SIZE CHART	
	= 1"
	= 3/4"

SHEET: GL	GAS LINE PLAN	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH. 865.494.7800 FAX: 865.494.0243	DRAWING # 34M406-GL		MODEL: MOUNTAINEER 72 (28'x72')	STD PLAN "CONDITIONED": 1,896 F
			MODEL # MTN28724A		SERIES: MOUNTAINEER	REV. BY:
			DATE: 4/7/2026	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN K. RIFFEY	REV. DATE:
HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756						

HILBORN, WERNER, CARTER,
AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVE.
CLEARWATER, FL. 33756

CLAYTON HOME BUILDING GROUP

Model Number	MTN2872	Drawing Number	34M406 HEATLOSS-TZ1	Version 29
Serial Number	X	Model Name	MOUNTAINEER	

BOX SIZE: 26.33 ft. x 72 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-502	THP-1255
U VALUE (BTUH/SQ.FT.-F)	0.0445	0.0817	0.0297

THIS INSULATION COMBINATION COMPLIES WITH
ZONE 1 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
10	0
12	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0

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Window Glass Area:

Doors:

	Area	U Value	UA
Front	21.63	0.300	6.49
Rear	19.37	0.300	5.81
Other Door	40.00	0.300	12.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	157.00	0.300	47.10
Option	0.00	0.300	0.00
Net:			
Floor	1896.00	0.045	84.37
Wall	1335.33	0.082	109.10
Ceiling	1896.00	0.0297	56.31
Th. Zone 1: Ext. Duct	78.50	0.242	18.98
Th. Zone 2: Ext. Duct	78.50	0.223	17.48
Th. Zone 3: Ext. Duct	78.50	0.206	16.14
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	355.3
Th. Zone 2	187.7
Th. Zone 3	0.0

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	ZERH / EStar 3.0 Compliant	Heatloss BTUH/F
1	11	340.16	0.062	OK	477.80
2	0	338.66	0.062	OK	476.30
3	-14	337.32	0.062	NG	475.00

Design Temperatures	
Furnace Heating Temp (F)	Economy Outdoor Temp (F)
-1	20
-16	10
-37	-5
-14	11
-56	-18
-97	-47

10kW
12kW
15kW
40k Gas
60k Gas
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



Manual S Compliance Report

Entire House

CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ1
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ1

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Federal Manufactured
Home Construction 6
And Safety Standards

Cooling Equipment

Design Conditions

Outdoor design DB:	91.6°F	Sensible gain:	19049	Btuh	Entering coil DB:	76.8°F
Outdoor design WB:	73.6°F	Latent gain:	4476	Btuh	Entering coil WB:	63.8°F
Indoor design DB:	75.0°F	Total gain:	23525	Btuh		
Indoor RH:	50%	Estimated airflow:	933	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Smart Comfort	Model:	R5H5S31*K*AAA*+FEVB0036**++NAVA53601CK	
Actual airflow:	933	cfm		
Sensible capacity:	22759	Btuh	119% of load	
Latent capacity:	4704	Btuh	105% of load	
Total capacity:	27463	Btuh	117% of load	SHR: 83%

Heating Equipment

Design Conditions

Outdoor design DB:	26.4°F	Heat loss:	23237	Btuh	Entering coil DB:	65.2°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Smart Comfort	Model:	R5H5S31*K*AAA*+FEVB0036**++NAVA53601CK	
Actual airflow:	933	cfm		
Output capacity:	29600	Btuh	127% of load	Capacity balance: 23 °F
Supplemental heat required:	0	Btuh		Economic balance: -99 °F

Backup equipment type:	Elec strip			
Manufacturer:	Smart Comfort	Model:		
Actual airflow:	933	cfm		
Output capacity:	10.0	kW	147% of load	Temp. rise: 40 °F

Meets all requirements of ACCA Manual S.



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Page 1

W:\ZERO ENERGY STANDARDS\34M406-FDJ-TZ1.rup Calc = MJ8 Front Door faces: E



Building Analysis

Entire House

CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ1
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ1

JULY 09 2026

Federal Manufactured
Home Construction 6
And Safety Standards

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Design Conditions

Location:

GA 36
Elevation: 1010 ft
Latitude: 34°N

Outdoor:

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

Heating

26
-
-
15.0

Cooling

92
16 (M)
74
7.5

Indoor:

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

Heating

70
44
50
39.9

Cooling

75
17
50
33.6

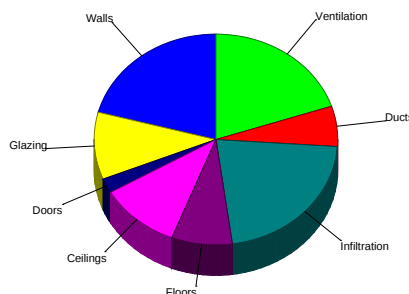
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
0

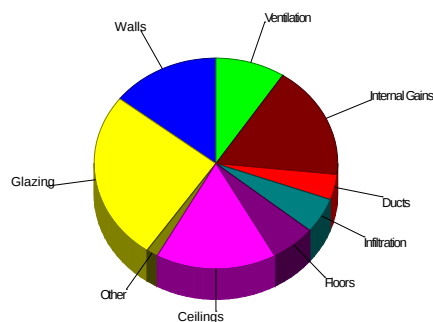
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.6	4837	20.8
Glazing	13.1	2396	10.3
Doors	13.1	520	2.2
Ceilings	1.3	2496	10.7
Floors	1.0	1872	8.1
Infiltration	3.2	5058	21.8
Ducts		1435	6.2
Piping		0	0
Humidification		0	0
Ventilation		4624	19.9
Adjustments		0	0
Total		23237	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	2757	14.5
Glazing	27.0	4943	25.9
Doors	7.5	297	1.6
Ceilings	1.6	3054	16.0
Floors	0.6	1146	6.0
Infiltration	0.7	1030	5.4
Ducts		742	3.9
Ventilation		1760	9.2
Internal gains		3320	17.4
Blower		0	0
Adjustments		0	0
Total		19049	100.0



Latent Cooling Load = 4476 Btuh

Overall U-value = 0.060 Btuh/ft²-°F, Window / Floor Area = 9.6 %

Data entries checked.



Component Constructions
Entire House
CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ1
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ1

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JULY 09 2026

Federal Manufactured
Home Construction 6
And Safety Standards

Design Conditions

Location:

GA 36
Elevation: 1010 ft
Latitude: 34°N

Outdoor:

	Heating	Cooling
Dry bulb (°F)	26	92
Daily range (°F)	-	16 (M)
Wet bulb (°F)	-	74
Wind speed (mph)	15.0	7.5

Indoor:

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

Heating

70
44
50
39.9

Cooling

75
17
50
33.6

Infiltration:

Method	Simplified
Construction quality	Average
Fireplaces	0

Construction descriptions

Walls

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
CMH - DW - R-13 Wall - THP-502 DOE: Frm wall, vnl ext, 3/8" wood	n	193	0.082	13.0	3.58	689	2.04	393
shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c.	e	491	0.082	13.0	3.58	1756	2.04	1001
stud	s	212	0.082	13.0	3.58	758	2.04	432
	w	457	0.082	13.0	3.58	1635	2.04	932
	all	1353	0.082	13.0	3.58	4837	2.04	2757

Partitions

(none)

Windows

Clayton - Theropanel Low-E DOE: Clayton - Therompane Low-E DOE;	e	44	0.300	0	13.1	576	27.0	1187
6.67 ft head ht	e	41	0.300	0	13.1	535	27.0	1104
	w	98	0.300	0	13.1	1285	27.0	2651
	all	183	0.300	0	13.1	2396	27.0	4943

Doors

CMH - Standard Door DOE: CMH - Standard Door -Solid no strom DOE	n	19	0.300	0	13.1	253	7.45	144
	w	20	0.300	0	13.1	268	7.46	153
	all	40	0.300	0	13.1	520	7.45	297

Ceilings

CMH - DW - 158 box R-38 - THP1255: Attic ceiling, asphalt shingles roof		1908	0.030	38.0	1.31	2496	1.60	3054
mat, r-38 ceil ins, 1/2" gypsum board int fnsh								

Floors

CHM - DW - R-22 FW THP-161: Flr floor, frm flr, 6" thkns, vinyl flr fnsh,		1908	0.045	22.0	0.98	1872	0.60	1146
r-21 ext ins, amb ovr								



Project Summary

Entire House

CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ1
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ1

Notes: Duct Capacity 31100 BTUH

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Design Information

Weather: GA 36

Winter Design Conditions

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

Ventilation Method MJ8

Heating Summary

Structure 17179 Btuh
Ducts (R-8.0) 1435 Btuh
Central vent (100 cfm) 4624 Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 23237 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft ²)	1908	1908
Volume (ft ³)	15264	15264
Air changes/hour	0.43	0.23
Equiv. AVF (cfm)	109	59

Heating Equipment Summary

Make Smart Comfort
Trade 15 SEER2 HP
Model R5H5S31*K*AAA*
AHRI ref 217702206

Efficiency 7.8 HSPF2
Heating input
Heating output 29600 Btuh @ 47°F
Temperature rise 30 °F
Actual air flow 933 cfm
Air flow factor 0.050 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat
Capacity balance point = 23 °F

Backup: Smart Comfort
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

Bold/italic values have been manually overridden

Summer Design Conditions

Outside db 92 °F
Inside db 75 °F
Design TD 17 °F
Daily range M
Relative humidity 50 %
Moisture difference 34 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 16547 Btuh
Ducts (R-8.0) 742 Btuh
Central vent (100 cfm) 1760 Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 0.97
Equipment sensible load 18401 Btuh

Latent Cooling Equipment Load Sizing

Structure 2090 Btuh
Ducts 183 Btuh
Central vent (100 cfm) 2204 Btuh
Outside air
Equipment latent load 4476 Btuh

Equipment Total Load (Sen+Lat) 22877 Btuh
Req. total capacity at 0.70 SHR 2.2 ton

Cooling Equipment Summary

Make Smart Comfort
Trade 15 SEER2 HP
Cond R5H5S31*K*AAA*
Coil FEVB0036***+NAVA53601CK
AHRI ref 217702206
Efficiency 12.5 EER2, 15.5 SEER2
Sensible cooling 19600 Btuh
Latent cooling 8400 Btuh
Total cooling 28000 Btuh
Actual air flow 933 cfm
Air flow factor 0.054 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.81

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



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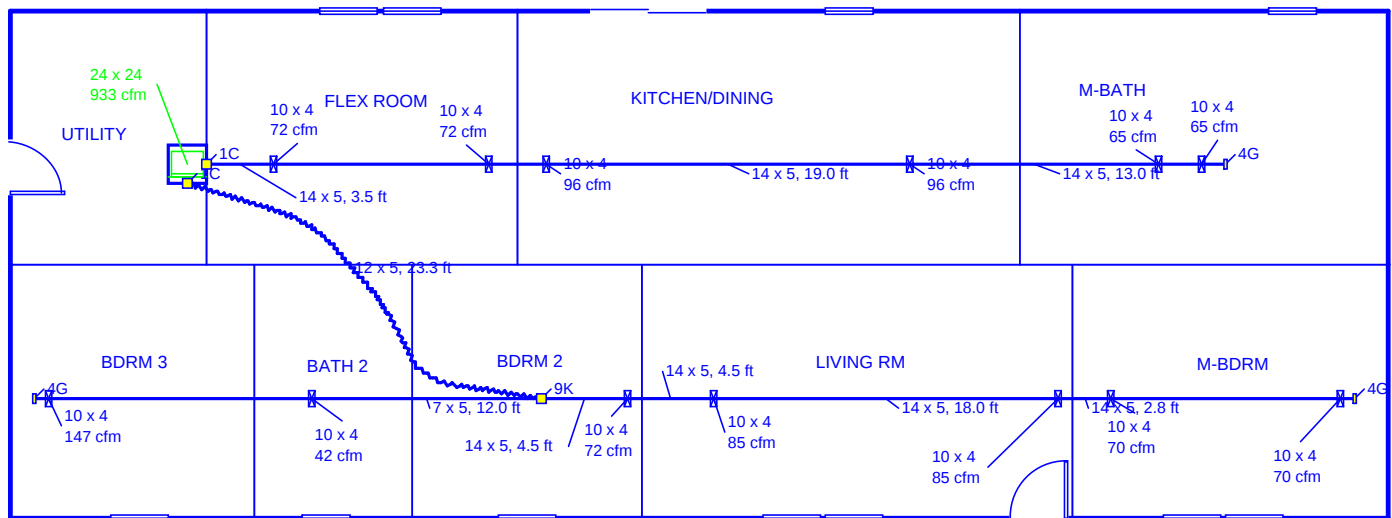
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Home Construction
And Safety Standards

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Level 1



Job #: 34M406-FDJ-TZ1
Performed by BRIAN RIFFEY for:
34M406-FDJ-TZ1

CMH Manufacturing Appalchia

1420 Mountain Road
Andersonville, TN 37705
Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243
www.claytonhomes.com

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Duct System Summary

Entire House

CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ1
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ1

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	Heating	Cooling
External static pressure	0.30 in H ₂ O	0.30 in H ₂ O
Pressure losses	0 in H ₂ O	0 in H ₂ O
Available static pressure	0.30 in H ₂ O	0.30 in H ₂ O
Supply / return available pressure	0.150 / 0.150 in H ₂ O	0.150 / 0.150 in H ₂ O
Lowest friction rate	0.179 in/100ft	0.179 in/100ft
Actual air flow	933 cfm	933 cfm
Total effective length (TEL)	168 ft	

Supply Branch Detail Table

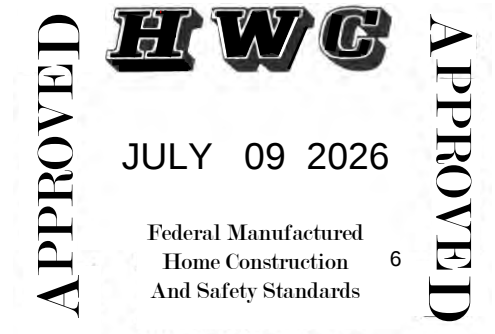
Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
BATH 2-A	h 841	42	38	0.200	5.0	0x0	VIFx	35.3	115.0	st9
BDRM 2	c 1340	63	72	0.210	5.0	0x0	VIFx	27.8	115.0	st8
BDRM 3-A	h 2939	147	121	0.183	6.0	5x6	ShMt	49.0	115.0	st9
FLEX ROOM	h 1440	72	64	0.779	5.0	0x0	VIFx	3.5	35.0	st1
FLEX ROOM-A	h 1440	72	64	0.603	5.0	0x0	VIFx	14.8	35.0	st1
KITCHEN/DINING	c 1784	73	96	0.418	5.0	0x0	VIFx	36.8	35.0	st3
KITCHEN/DINING-A	c 1784	73	96	0.569	4.0	5x5	ShMt	17.8	35.0	st1
LIVING RM-A	c 1567	65	85	0.204	6.0	0x0	VIFx	32.3	115.0	st5
LIVING RM-B	c 1567	65	85	0.182	6.0	0x0	VIFx	50.3	115.0	st6
M-BATH	h 1302	65	37	0.345	3.9	5x5	ShMt	52.0	35.0	st4
M-BATH-BATI	h 1302	65	37	0.354	5.0	0x0	VIFx	49.8	35.0	st4
M-BDRM-A	c 1295	65	70	0.179	6.0	0x0	VIFx	53.0	115.0	st7
M-BDRM-B	c 1295	65	70	0	0	5x0	ShMt	0	0	

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	130	73	0.345	268	3.7	5 x 14	ShtMetl	st3
st9	Peak AVF	189	158	0.183	780	6.5	5 x 7	ShtMetl	st2
st1	Peak AVF	421	394	0.345	866	3.7	5 x 14	ShtMetl	
st8	Peak AVF	257	311	0.179	640	10.3	5 x 14	ShtMetl	st2
st5	Peak AVF	195	239	0.179	492	9.5	5 x 14	ShtMetl	st8
st6	Peak AVF	130	154	0.179	318	8.4	5 x 14	ShtMetl	st5
st7	Peak AVF	65	70	0.179	144	5.5	5 x 14	ShtMetl	st6
st3	Peak AVF	203	170	0.345	419	3.7	5 x 14	ShtMetl	st1
st2	Peak AVF	447	470	0.179	1127	3.7	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
rsb1	24x 24	933	933	0	0	0	0	0x 0		VIFx	



Bold/italic values have been manually overridden

CLAYTON HOME BUILDING GROUP

Model Number	MTN2872	Drawing Number	34M406 HEATLOSS-TZ2	Version 29
Serial Number	X	Model Name	MOUNTAINEER	

BOX SIZE: 26.33 ft. x 72 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-502	THP-1255
U VALUE (BTUH/SQ.FT.-F)	0.0445	0.0817	0.0297

THIS INSULATION COMBINATION COMPLIES WITH
ZONE 1 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
10	0
12	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0

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Window Glass Area:

Doors:

	Area	U Value	UA
Front	21.63	0.300	6.49
Rear	19.37	0.300	5.81
Other Door	40.00	0.300	12.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	157.00	0.300	47.10
Option	0.00	0.300	0.00
Net:			
Floor	1896.00	0.045	84.37
Wall	1335.33	0.082	109.10
Ceiling	1896.00	0.0297	56.31
Th. Zone 1:			
Ext. Duct	78.50	0.242	18.98
Th. Zone 2:			
Ext. Duct	78.50	0.223	17.48
Th. Zone 3:			
Ext. Duct	78.50	0.206	16.14
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	355.3
Th. Zone 2	187.7
Th. Zone 3	0.0

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	ZERH / EStar 3.0 Compliant	Heatloss BTUH/F
1	11	340.16	0.062	OK	477.80
2	0	338.66	0.062	OK	476.30
3	-14	337.32	0.062	NG	475.00

Design Temperatures	
Furnace Heating Temp (F)	Economy Outdoor Temp (F)
-1	20
-16	10
-37	-5
-14	11
-56	-18
-97	-47

10kW
12kW
15kW
40k Gas
60k Gas
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



Manual S Compliance Report
Entire House
CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ2
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ2

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Cooling Equipment

Design Conditions

Outdoor design DB:	90.4°F	Sensible gain:	18275	Btuh	Entering coil DB:	76.7°F
Outdoor design WB:	73.3°F	Latent gain:	4481	Btuh	Entering coil WB:	63.7°F
Indoor design DB:	75.0°F	Total gain:	22757	Btuh		
Indoor RH:	50%	Estimated airflow:	933	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Smart Comfort	Model:	R5H5S31*K*AAA*+FEVB0036**++NAVA53601CK
Actual airflow:	933	cfm	
Sensible capacity:	22759	Btuh	125% of load
Latent capacity:	4704	Btuh	105% of load
Total capacity:	27463	Btuh	121% of load SHR: 83%

Heating Equipment

Design Conditions

Outdoor design DB:	21.0°F	Heat loss:	26048	Btuh	Entering coil DB:	64.7°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Smart Comfort	Model:	R5H5S31*K*AAA*+FEVB0036**++NAVA53601CK
Actual airflow:	933	cfm	
Output capacity:	29600	Btuh	114% of load
Supplemental heat required:	0	Btuh	
			Capacity balance: 23 °F
			Economic balance: -99 °F

Backup equipment type:	Elec strip		
Manufacturer:	Smart Comfort	Model:	
Actual airflow:	933	cfm	
Output capacity:	10.0	kW	131% of load Temp. rise: 39 °F

Meets all requirements of ACCA Manual S.



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Building Analysis

Entire House

CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ2
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ2

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Design Conditions

Location:

TN 25
Elevation: 962 ft
Latitude: 36°N

Outdoor:

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

Heating

21
-
-
15.0

Cooling

90
18 (M)
73
7.5

Indoor:

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

Heating

70
49
50
43.6

Cooling

75
15
50
33.6

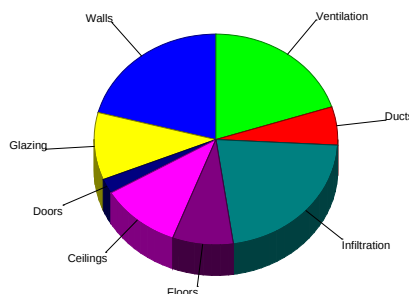
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
0

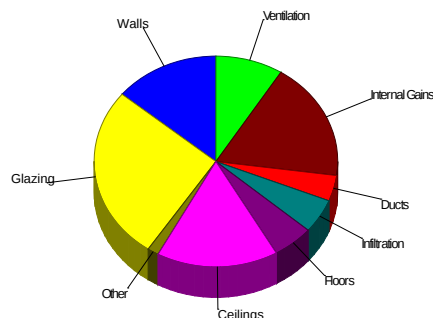
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.0	5437	20.9
Glazing	14.7	2693	10.3
Doors	14.7	585	2.2
Ceilings	1.5	2805	10.8
Floors	1.1	2104	8.1
Infiltration	3.6	5694	21.9
Ducts		1526	5.9
Piping		0	0
Humidification		0	0
Ventilation		5205	20.0
Adjustments		0	0
Total		26048	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.9	2557	14.0
Glazing	26.6	4864	26.6
Doors	6.9	275	1.5
Ceilings	1.5	2951	16.1
Floors	0.5	992	5.4
Infiltration	0.6	957	5.2
Ducts		723	4.0
Ventilation		1636	9.0
Internal gains		3320	18.2
Blower		0	0
Adjustments		0	0
Total		18275	100.0



Latent Cooling Load = 4481 Btuh

Overall U-value = 0.060 Btuh/ft²-°F, Window / Floor Area = 9.6 %

Data entries checked.



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Component Constructions
Entire House
CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ2
Date: July 7, 2026
By: BRIAN RIFFEY



1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ2

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Design Conditions

Location:

TN 25
Elevation: 962 ft
Latitude: 36°N

Outdoor:

	Heating	Cooling
Dry bulb (°F)	21	90
Daily range (°F)	-	18 (M)
Wet bulb (°F)	-	73
Wind speed (mph)	15.0	7.5

Indoor:

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

Heating

70
49
50
43.6

Cooling

75
15
50
33.6

Infiltration:

Method	Simplified
Construction quality	Average
Fireplaces	0

Construction descriptions

Walls

Construction descriptions	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
CMH - DW - R-13 Wall - THP-502 DOE: Frm wall, vnl ext, 3/8" wood	n	193	0.082	13.0	4.02	774	1.89	364
shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c.	e	491	0.082	13.0	4.02	1973	1.89	928
stud	s	212	0.082	13.0	4.02	852	1.89	401
	w	457	0.082	13.0	4.02	1837	1.89	864
	all	1353	0.082	13.0	4.02	5437	1.89	2557

Partitions

(none)

Windows

Clayton - Theropanel Low-E DOE: Clayton - Therompane Low-E DOE;	e	44	0.300	0	14.7	647	26.5	1167
6.67 ft head ht	e	41	0.300	0	14.7	602	26.5	1086
	w	98	0.300	0	14.7	1444	26.5	2607
	all	183	0.300	0	14.7	2693	26.5	4859

Doors

CMH - Standard Door DOE: CMH - Standard Door -Solid no strom DOE	n	19	0.300	0	14.7	284	6.91	134
	w	20	0.300	0	14.7	301	6.91	141
	all	40	0.300	0	14.7	585	6.91	275

Ceilings

CMH - DW - 158 box R-38 - THP1255: Attic ceiling, asphalt shingles roof		1908	0.030	38.0	1.47	2805	1.55	2951
mat, r-38 ceil ins, 1/2" gypsum board int fnsh								

Floors

CHM - DW - R-22 FW THP-161: Flr floor, frm flr, 6" thkns, vinyl flr fnsh,		1908	0.045	22.0	1.10	2104	0.52	992
r-21 ext ins, amb ovr								

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Project Summary

Entire House

CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ2
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ2

Notes: Duct Capacity 31100 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 19316 Btuh
Ducts (R-8.0) 1526 Btuh
Central vent (100 cfm) 5205 Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 26048 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft ²)	1908	1908
Volume (ft ³)	15264	15264
Air changes/hour	0.43	0.23
Equiv. AVF (cfm)	109	59

Heating Equipment Summary

Make Smart Comfort
Trade 15 SEER2 HP
Model R5H5S31*K*AAA*
AHRI ref 217702206

Efficiency 7.8 HSPF2
Heating input
Heating output 29600 Btuh @ 47°F
Temperature rise 30 °F
Actual air flow 933 cfm
Air flow factor 0.045 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat
Capacity balance point = 23 °F

Backup: Smart Comfort
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

Bold/italic values have been manually overridden

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 15916 Btuh
Ducts (R-8.0) 723 Btuh
Central vent (100 cfm) 1636 Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 0.95
Equipment sensible load 17435 Btuh

Latent Cooling Equipment Load Sizing

Structure 2092 Btuh
Ducts 182 Btuh
Central vent (100 cfm) 2208 Btuh
Outside air
Equipment latent load 4481 Btuh

Equipment Total Load (Sen+Lat) 21916 Btuh
Req. total capacity at 0.70 SHR 2.1 ton

Cooling Equipment Summary

Make Smart Comfort
Trade 15 SEER2 HP
Cond R5H5S31*K*AAA*
Coil FEVB0036***+NAVA53601CK
AHRI ref 217702206
Efficiency 12.5 EER2, 15.5 SEER2
Sensible cooling 19600 Btuh
Latent cooling 8400 Btuh
Total cooling 28000 Btuh
Actual air flow 933 cfm
Air flow factor 0.056 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.80

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



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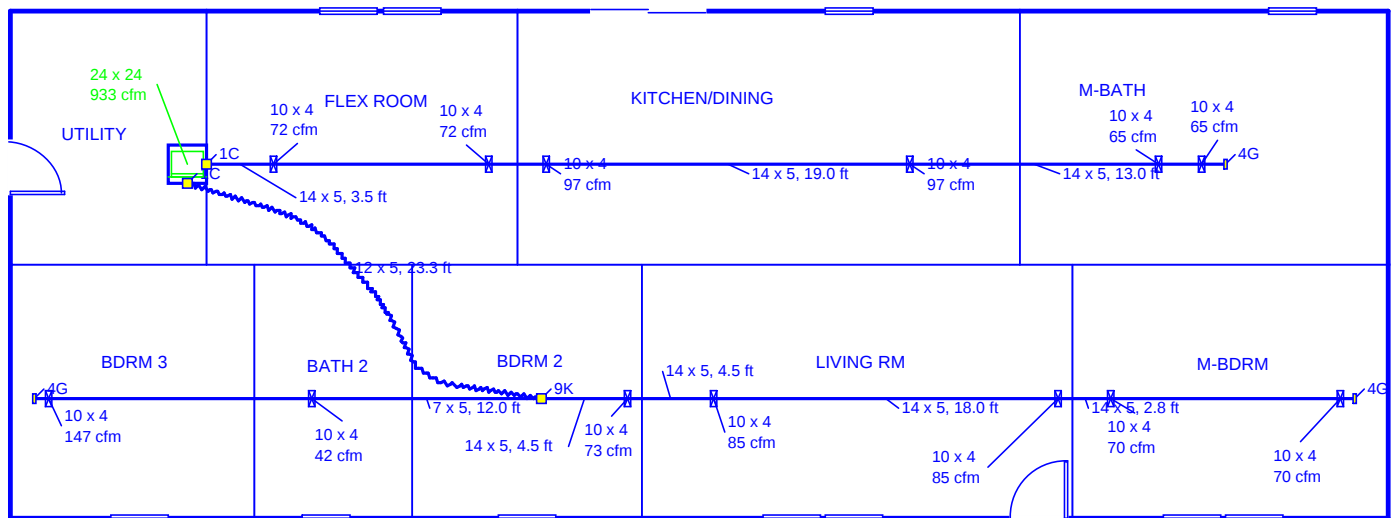
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Level 1



Job #: 34M406-FDJ-TZ2
Performed by BRIAN RIFFEY for:
34M406-FDJ-TZ2

CMH Manufacturing Appalchia

1420 Mountain Road
Andersonville, TN 37705
Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243
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Duct System Summary

Entire House

CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ2
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ2

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	Heating	Cooling
External static pressure	0.30 in H ₂ O	0.30 in H ₂ O
Pressure losses	0 in H ₂ O	0 in H ₂ O
Available static pressure	0.30 in H ₂ O	0.30 in H ₂ O
Supply / return available pressure	0.150 / 0.150 in H ₂ O	0.150 / 0.150 in H ₂ O
Lowest friction rate	0.179 in/100ft	0.179 in/100ft
Actual air flow	933 cfm	933 cfm
Total effective length (TEL)	168 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 2-A	h 942	42	37	0.200	5.0	0x0	VIFx	35.3	115.0	st9
BDRM 2	c 1295	63	73	0.210	5.0	0x0	VIFx	27.8	115.0	st8
BDRM 3-A	h 3291	147	120	0.183	6.0	5x6	ShMt	49.0	115.0	st9
FLEX ROOM	h 1612	72	63	0.779	5.0	0x0	VIFx	3.5	35.0	st1
FLEX ROOM-A	h 1612	72	63	0.603	5.0	0x0	VIFx	14.8	35.0	st1
KITCHEN/DINING	c 1729	73	97	0.418	5.0	0x0	VIFx	36.8	35.0	st3
KITCHEN/DINING-A	c 1729	73	97	0.569	4.1	5x5	ShMt	17.8	35.0	st1
LIVING RM-A	c 1519	65	85	0.204	6.0	0x0	VIFx	32.3	115.0	st5
LIVING RM-B	c 1519	65	85	0.182	6.0	0x0	VIFx	50.3	115.0	st6
M-BATH	h 1458	65	36	0.345	3.9	5x5	ShMt	52.0	35.0	st4
M-BATH-BATI	h 1458	65	36	0.354	5.0	0x0	VIFx	49.8	35.0	st4
M-BDRM-A	c 1252	65	70	0.179	6.0	0x0	VIFx	53.0	115.0	st7
M-BDRM-B	c 1252	65	70	0	0	5x0	ShMt	0	0	

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	130	71	0.345	268	3.7	5 x 14	ShtMetl	st3
st9	Peak AVF	189	157	0.183	780	6.5	5 x 7	ShtMetl	st2
st1	Peak AVF	421	392	0.345	866	3.7	5 x 14	ShtMetl	
st8	Peak AVF	257	313	0.179	644	10.3	5 x 14	ShtMetl	st2
st5	Peak AVF	195	241	0.179	495	9.5	5 x 14	ShtMetl	st8
st6	Peak AVF	130	155	0.179	320	8.4	5 x 14	ShtMetl	st5
st7	Peak AVF	65	70	0.179	144	5.5	5 x 14	ShtMetl	st6
st3	Peak AVF	203	168	0.345	419	3.7	5 x 14	ShtMetl	st1
st2	Peak AVF	447	471	0.179	1129	3.7	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
rsb1	24x 24	933	933	0	0	0	0	0x 0		VIFx	



Bold/italic values have been manually overridden

CLAYTON HOME BUILDING GROUP

Model Number	MTN2872	Drawing Number	34M406 HEALTLOSS-TZ3	Version 29
Serial Number	X	Model Name	MOUNTAINEER	

BOX SIZE: 26.33 ft. x 72 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-33 FW	R-21	R-38
DAPIA PAGE	THP-221	THP-510	THP-1255
U VALUE (BTUH/SQ.FT.-F)	0.0320	0.0546	0.0297

THIS INSULATION COMBINATION COMPLIES WITH
ZONE 3 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
10	0
12	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0

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Window Glass Area:

Doors:

	Area	U Value	UA
Front	21.63	0.300	6.49
Rear	19.37	0.300	5.81
Other Door	40.00	0.300	12.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	157.00	0.300	47.10
Option	0.00	0.300	0.00
Net:			
Floor	1896.00	0.032	60.67
Wall	1335.33	0.055	72.91
Ceiling	1896.00	0.0297	56.31
Th. Zone 1:			
Ext. Duct	78.50	0.242	18.98
Th. Zone 2:			
Ext. Duct	78.50	0.223	17.48
Th. Zone 3:			
Ext. Duct	78.50	0.206	16.14
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	577.5
Th. Zone 2	428.3
Th. Zone 3	224.4

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	ZERH / EStar 3.0 Compliant	Heatloss BTUH/F
1	11	280.28	0.051	OK	417.90
2	0	278.77	0.051	OK	416.40
3	-14	277.43	0.051	OK	415.10

Design Temperatures	
Furnace Heating Temp (F)	Economy Outdoor Temp (F)
-12	13
-28	1
-52	-16
-26	3
-74	-31
-121	-64

10kW
12kW
15kW
40k Gas
60k Gas
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



Manual S Compliance Report
Entire House
CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ3
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ3

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Cooling Equipment

Design Conditions

Outdoor design DB:	90.2°F	Sensible gain:	16769 Btuh	Entering coil DB:	77.0°F
Outdoor design WB:	73.3°F	Latent gain:	4930 Btuh	Entering coil WB:	64.0°F
Indoor design DB:	75.0°F	Total gain:	21699 Btuh		
Indoor RH:	50%	Estimated airflow:	933 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Smart Comfort	Model:	R5H5S31*K*AAA*+FEVB0036**++NAVA53601CK
Actual airflow:	933 cfm		
Sensible capacity:	22691 Btuh	135% of load	
Latent capacity:	5262 Btuh	107% of load	
Total capacity:	27952 Btuh	129% of load	SHR: 81%

Heating Equipment

Design Conditions

Outdoor design DB:	10.1°F	Heat loss:	30147 Btuh	Entering coil DB:	62.2°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Smart Comfort	Model:	R5H5S31*K*AAA*+FEVB0036**++NAVA53601CK
Actual airflow:	933 cfm		
Output capacity:	29600 Btuh	98% of load	Capacity balance: 21 °F
Supplemental heat required:	547 Btuh		Economic balance: -99 °F

Backup equipment type:	Elec strip		
Manufacturer:	Smart Comfort	Model:	
Actual airflow:	933 cfm		
Output capacity:	10.0 kW	113% of load	Temp. rise: 39 °F

Meets all requirements of ACCA Manual S.



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Building Analysis

Entire House

CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ3
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ3



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Design Conditions

Location:

OH 22
Elevation: 744 ft
Latitude: 40°N

Outdoor:

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

Heating

10
-
-
15.0

Cooling

90
19 (M)
73
7.5

Indoor:

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

Heating

70
60
50
48.7

Cooling

75
15
50
33.4

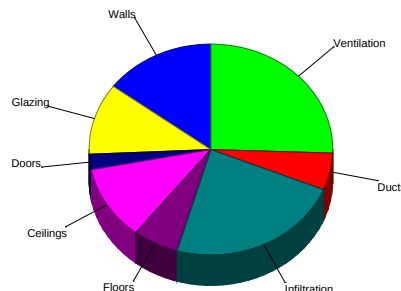
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
0

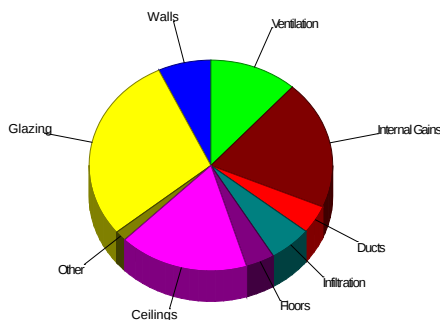
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.3	4458	14.8
Glazing	18.0	3292	10.9
Doors	18.0	715	2.4
Ceilings	1.8	3429	11.4
Floors	1.0	1829	6.1
Infiltration	4.5	7016	23.3
Ducts		1713	5.7
Piping		0	0
Humidification		0	0
Ventilation		7697	25.5
Adjustments		0	0
Total		30147	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.9	1180	7.0
Glazing	26.4	4841	28.9
Doors	6.6	263	1.6
Ceilings	1.5	2893	17.3
Floors	0.3	644	3.8
Infiltration	0.6	952	5.7
Ducts		723	4.3
Ventilation		1953	11.6
Internal gains		3320	19.8
Blower		0	0
Adjustments		0	0
Total		16769	100.0



Latent Cooling Load = 4930 Btuh

Overall U-value = 0.048 Btuh/ft²-°F, Window / Floor Area = 9.6 %

Data entries checked.



Component Constructions
Entire House
CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ3
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ3

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Design Conditions

Location:

OH 22
Elevation: 744 ft
Latitude: 40°N

Outdoor:

	Heating	Cooling
Dry bulb (°F)	10	90
Daily range (°F)	-	19 (M)
Wet bulb (°F)	-	73
Wind speed (mph)	15.0	7.5

Indoor:

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

Heating

70
60
50
48.7

Cooling

75
15
50
33.4

Infiltration:

	Method
Construction quality	Simplified
Fireplaces	Average
	0

Construction descriptions

Walls

CMH - DW - R-21 Wall - THP-510: Frm wall, vnl ext, 5/8" wood shth,
r-21 cav ins, 5/8" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud

Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
n	193	0.055	21.0	3.29	635	0.87	168
e	491	0.055	21.0	3.29	1618	0.87	428
s	212	0.055	21.0	3.29	698	0.87	185
w	457	0.055	21.0	3.29	1507	0.87	399
all	1353	0.055	21.0	3.29	4458	0.87	1180

Partitions

(none)

Windows

Clayton - Theropanel Low-E DOE: Clayton - Therompane Low-E DOE;
6.67 ft head ht

e	44	0.300	0	18.0	791	26.3	1156
e	41	0.300	0	18.0	735	26.3	1075
w	98	0.300	0	18.0	1766	26.3	2581
all	183	0.300	0	18.0	3292	26.3	4812

Doors

CMH - Standard Door DOE: CMH - Standard Door -Solid no strom DOE

n	19	0.300	0	18.0	347	6.61	128
w	20	0.300	0	18.0	368	6.61	135
all	40	0.300	0	18.0	715	6.61	263

Ceilings

CMH - DW - 158 box R-38 - THP1255: Attic ceiling, asphalt shingles roof
mat, r-38 ceil ins, 1/2" gypsum board int fnsh

	1908	0.030	38.0	1.80	3429	1.52	2893
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Floors

CHM - DW - R-33 FW THP-221: Flr floor, frm flr, 6" thkns, vinyl flr fnsh,
r-30 ext ins, amb ovr

	1908	0.032	33.0	0.96	1829	0.34	644
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Project Summary

Entire House

CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ3
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ3

Notes: Duct Capacity 31100 BTUH



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Design Information

Weather: OH 22

Winter Design Conditions

Outside db 10 °F
Inside db 70 °F
Design TD 60 °F

Ventilation Method MJ8

Heating Summary

Structure 20738 Btuh
Ducts (R-8.0) 1713 Btuh
Central vent (120 cfm) 7697 Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 30147 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft ²)	1908	1908
Volume (ft ³)	15264	15264
Air changes/hour	0.43	0.23
Equiv. AVF (cfm)	109	59

Heating Equipment Summary

Make Smart Comfort
Trade 15 SEER2 HP
Model R5H5S31*K*AAA*
AHRI ref 217702206

Efficiency 7.8 HSPF2
Heating input
Heating output 29600 Btuh @ 47°F
Temperature rise 30 °F
Actual air flow 933 cfm
Air flow factor 0.042 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat
Capacity balance point = 21 °F

Backup: Smart Comfort
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

Bold/italic values have been manually overridden

Summer Design Conditions

Outside db 90 °F
Inside db 75 °F
Design TD 15 °F
Daily range M
Relative humidity 50 %
Moisture difference 33 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 14094 Btuh
Ducts (R-8.0) 723 Btuh
Central vent (120 cfm) 1953 Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 0.95
Equipment sensible load 15964 Btuh

Latent Cooling Equipment Load Sizing

Structure 2095 Btuh
Ducts 179 Btuh
Central vent (120 cfm) 2656 Btuh
Outside air
Equipment latent load 4930 Btuh

Equipment Total Load (Sen+Lat) 20895 Btuh
Req. total capacity at 0.70 SHR 1.9 ton

Cooling Equipment Summary

Make Smart Comfort
Trade 15 SEER2 HP
Cond R5H5S31*K*AAA*
Coil FEVB0036***+NAVA53601CK
AHRI ref 217702206
Efficiency 12.5 EER2, 15.5 SEER2
Sensible cooling 19600 Btuh
Latent cooling 8400 Btuh
Total cooling 28000 Btuh
Actual air flow 933 cfm
Air flow factor 0.063 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.77

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



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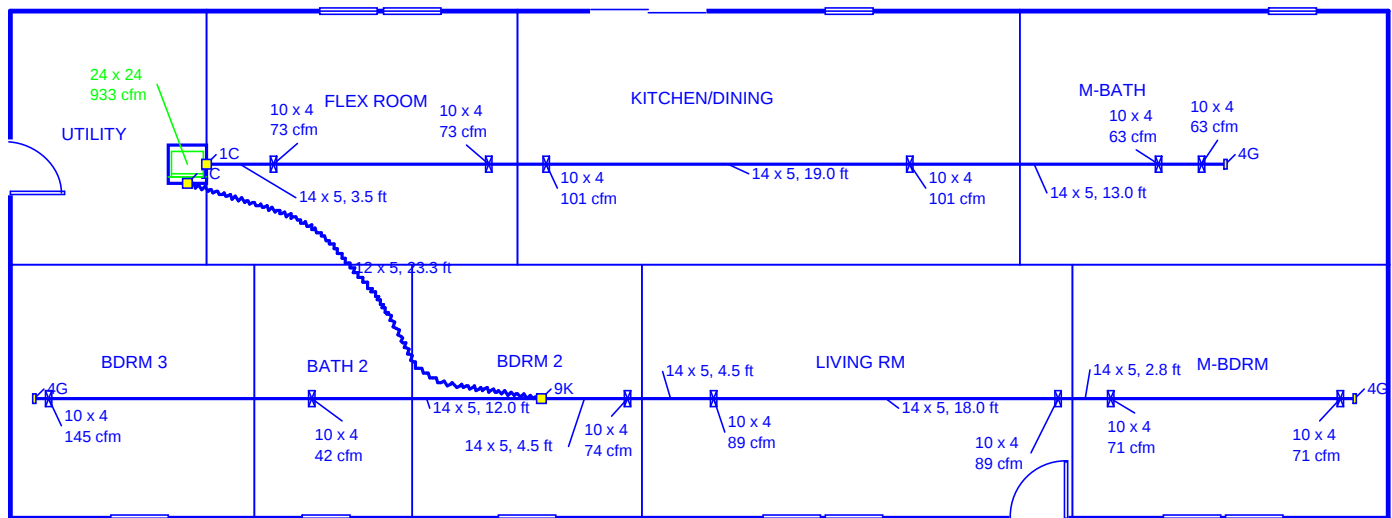
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Level 1



Job #: 34M406-FDJ-TZ3
Performed by BRIAN RIFFEY for:
34M406-FDJ-TZ3

CMH Manufacturing Appalchia

1420 Mountain Road
Andersonville, TN 37705
Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243
www.claytonhomes.com

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Duct System Summary

Entire House

CMH Manufacturing Appalchia

Job: 34M406-FDJ-TZ3
Date: July 7, 2026
By: BRIAN RIFFEY

1420 Mountain Road, Andersonville, TN 37705 Phone: 865-494-7800 Ext. 257 Fax: 865-494-0243 Web: www.claytonhomes.com

Project Information

For: 34M406-FDJ-TZ3

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	Heating	Cooling
External static pressure	0.30 in H ₂ O	0.30 in H ₂ O
Pressure losses	0 in H ₂ O	0 in H ₂ O
Available static pressure	0.30 in H ₂ O	0.30 in H ₂ O
Supply / return available pressure	0.150 / 0.150 in H ₂ O	0.150 / 0.150 in H ₂ O
Lowest friction rate	0.179 in/100ft	0.179 in/100ft
Actual air flow	933 cfm	933 cfm
Total effective length (TEL)	168 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 2-A	h 1011	42	37	0.200	5.0	0x0	VIFx	35.3	115.0	st9
BDRM 2	c 1176	63	74	0.210	5.0	0x0	VIFx	27.8	115.0	st8
BDRM 3-A	h 3485	145	115	0.183	5.9	5x6	ShMt	49.0	115.0	st9
FLEX ROOM	h 1750	73	63	0.779	5.0	0x0	VIFx	3.5	35.0	st1
FLEX ROOM-A	h 1750	73	63	0.603	5.0	0x0	VIFx	14.8	35.0	st1
KITCHEN/DINING	c 1601	74	101	0.418	5.0	0x0	VIFx	36.8	35.0	st3
KITCHEN/DINING-A	c 1601	74	101	0.569	4.1	5x5	ShMt	17.8	35.0	st1
LIVING RM-A	c 1414	67	89	0.204	6.0	0x0	VIFx	32.3	115.0	st5
LIVING RM-B	c 1414	67	89	0.182	6.0	0x0	VIFx	50.3	115.0	st6
M-BATH	h 1516	63	31	0.345	3.8	5x5	ShMt	52.0	35.0	st4
M-BATH-BATI	h 1516	63	31	0.354	5.0	0x0	VIFx	49.8	35.0	st4
M-BDRM-A	c 1121	65	71	0.179	6.0	0x0	VIFx	53.0	115.0	st7
M-BDRM-B	c 1121	65	71	0	0	5x0	ShMt	0	0	

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	126	61	0.345	259	3.7	5 x 14	ShtMetl	st3
st9	Peak AVF	187	151	0.183	384	6.5	5 x 14	ShtMetl	st2
st1	Peak AVF	420	388	0.345	864	3.7	5 x 14	ShtMetl	
st8	Peak AVF	261	323	0.179	664	10.3	5 x 14	ShtMetl	st2
st5	Peak AVF	198	249	0.179	512	9.5	5 x 14	ShtMetl	st8
st6	Peak AVF	131	160	0.179	328	8.4	5 x 14	ShtMetl	st5
st7	Peak AVF	65	71	0.179	145	5.5	5 x 14	ShtMetl	st6
st3	Peak AVF	200	162	0.345	412	3.7	5 x 14	ShtMetl	st1
st2	Peak AVF	448	474	0.179	1138	3.7	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
rsb1	24x 24	933	933	0	0	0	0	0x 0		VIFx	

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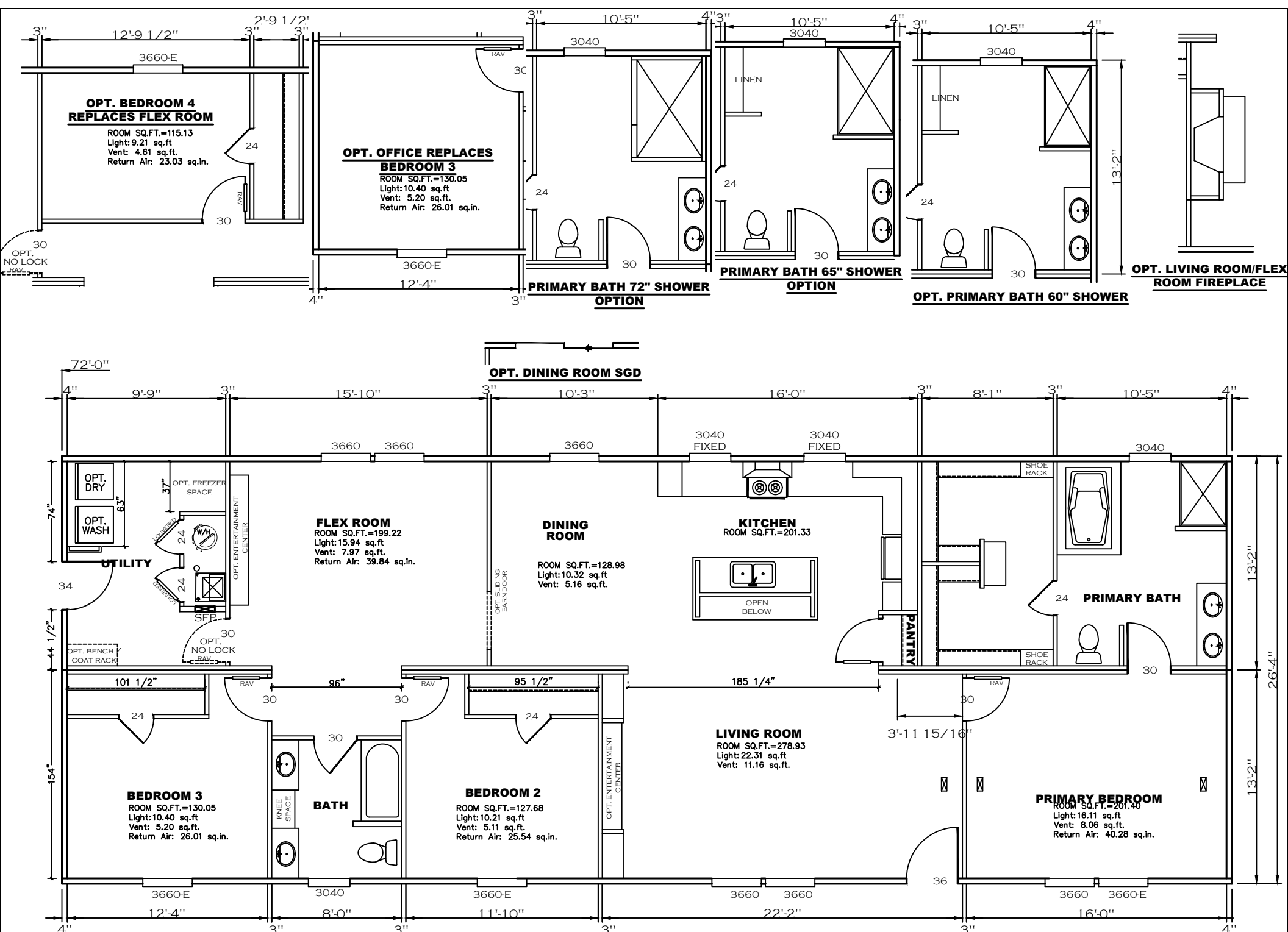
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SHEET:

FP

FLOOR PLAN

Clayton

Clayton - 934
 1420 Mountain Rd, Andersonville, TN 37705
 PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER,
 AND ASSOCIATES, INC.
 1627 SOUTH MYRTLE AVE.
 CLEARWATER, FL. 33756

DRAWING #: 34M406-FP

MODEL #: MTN28724A

DATE: 6/7/2026

SCALE: N.T.S.

MODEL: MOUNTAINEER 72 (28'x72')

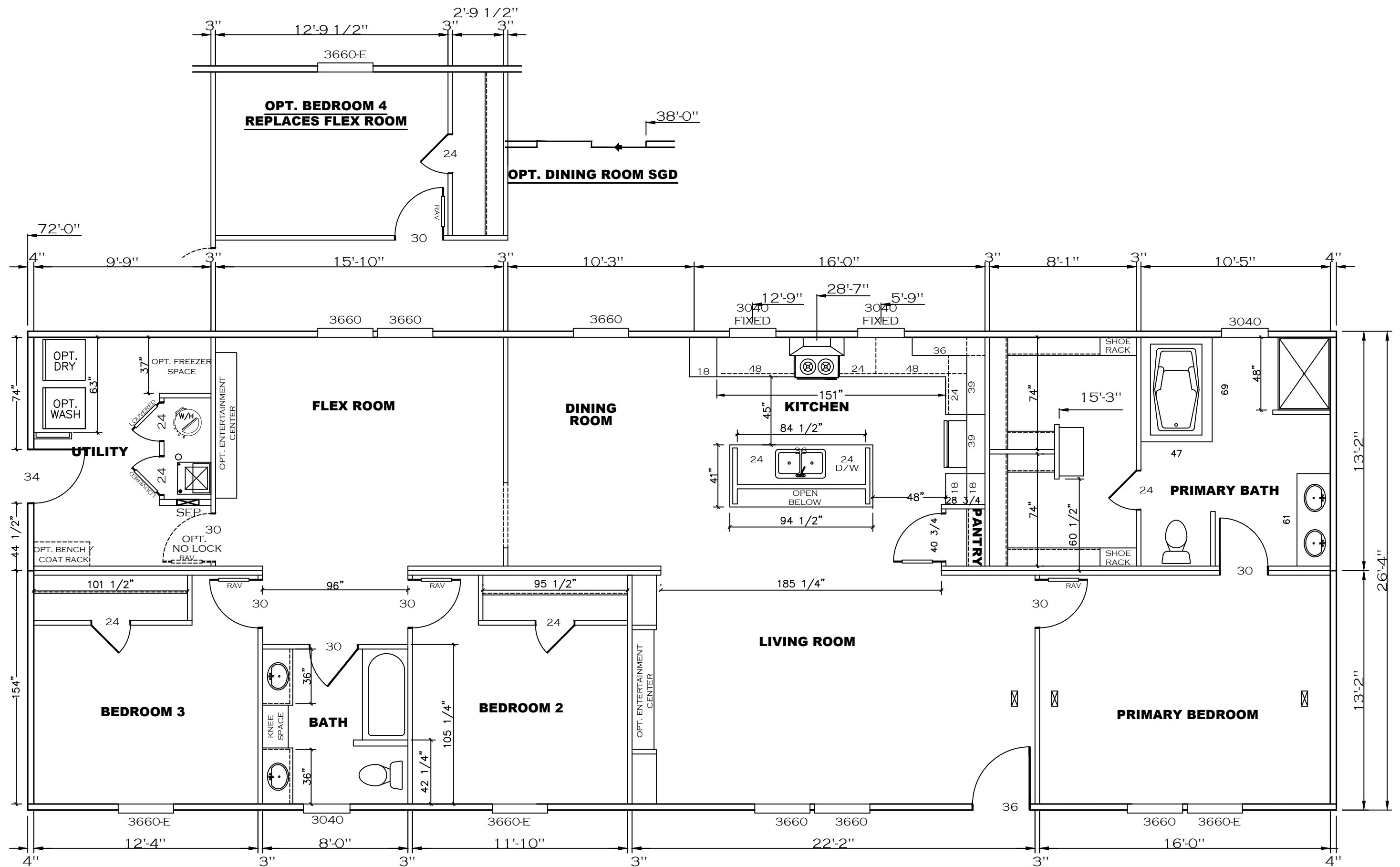
SERIES: MOUNTAINEER

PRODUCT DESIGNER: BRIAN K. RIFFEY

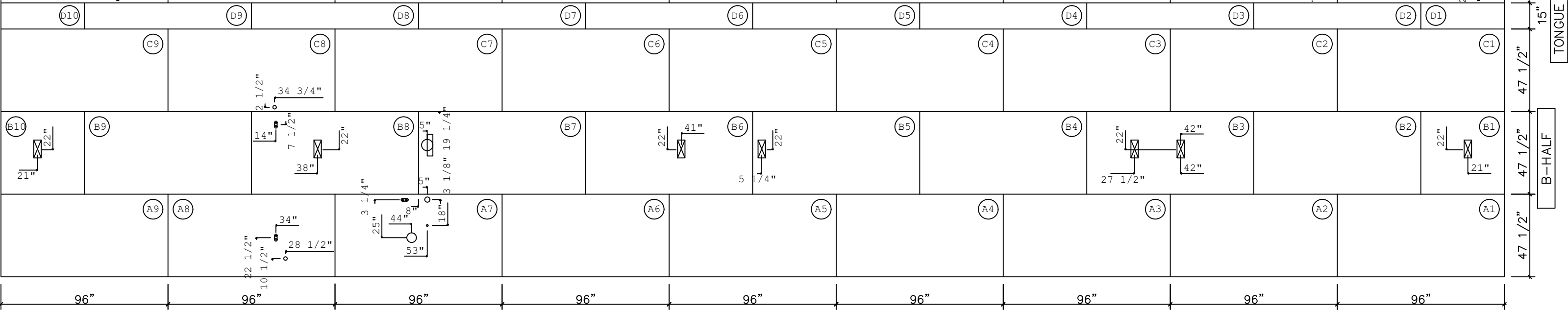
STD PLAN "CONDITIONED": 1,896 FT²

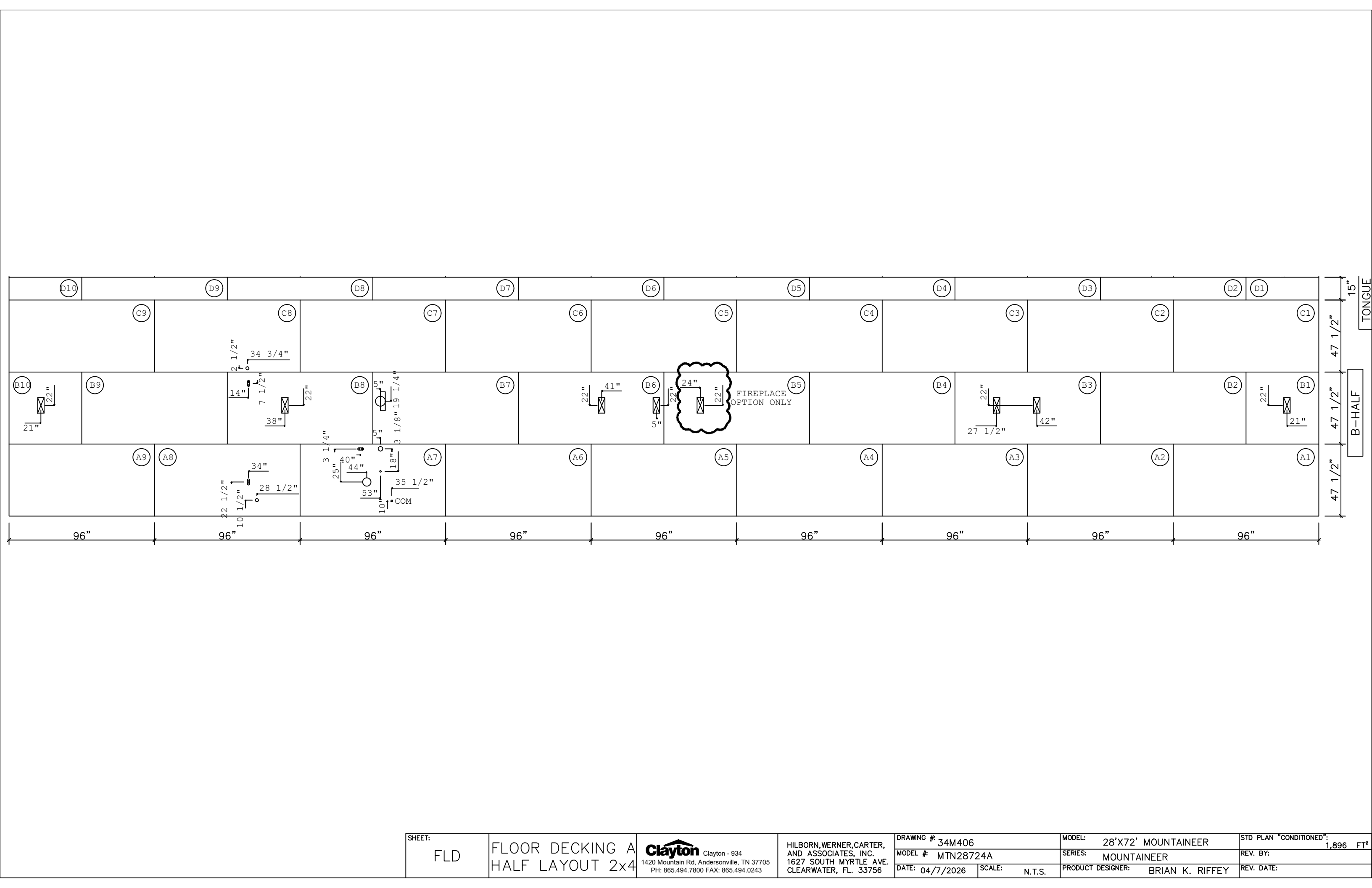
REV. BY:

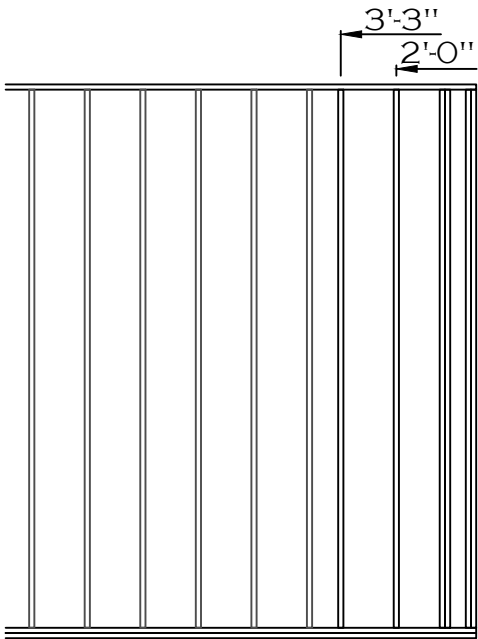
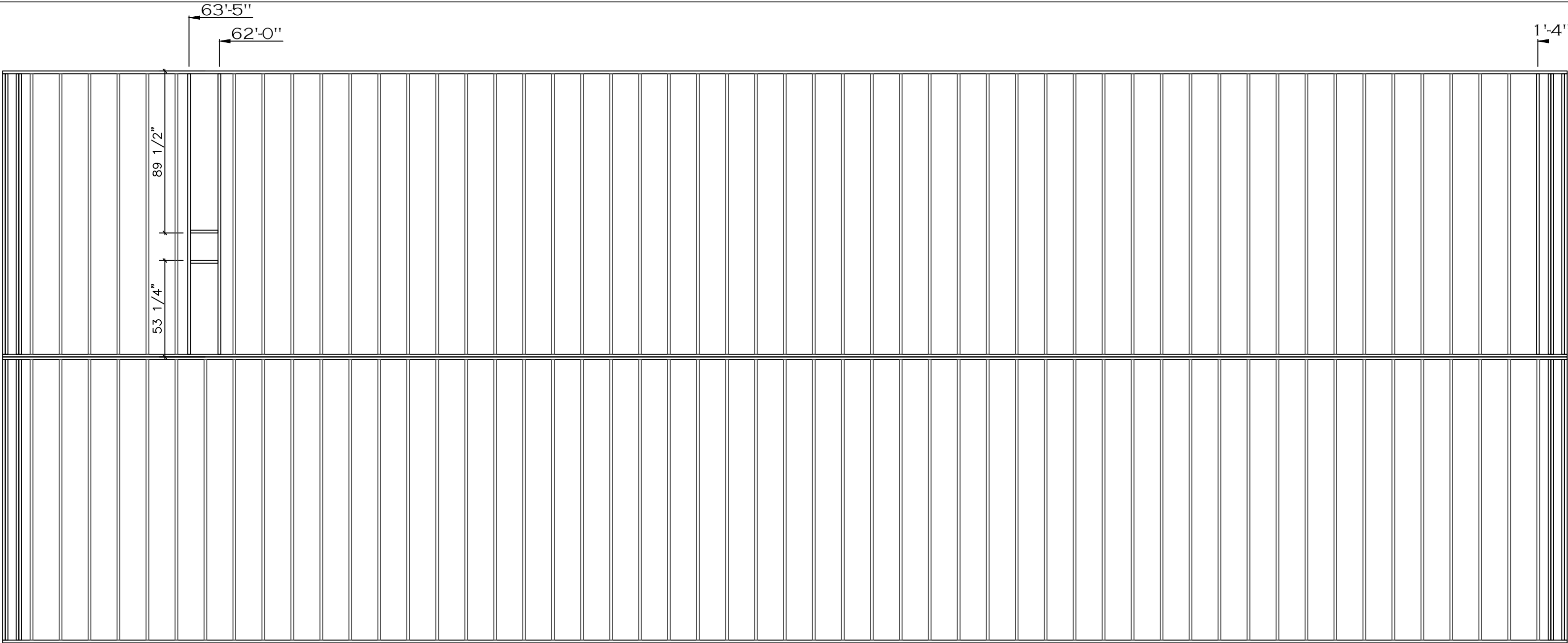
REV. DATE:



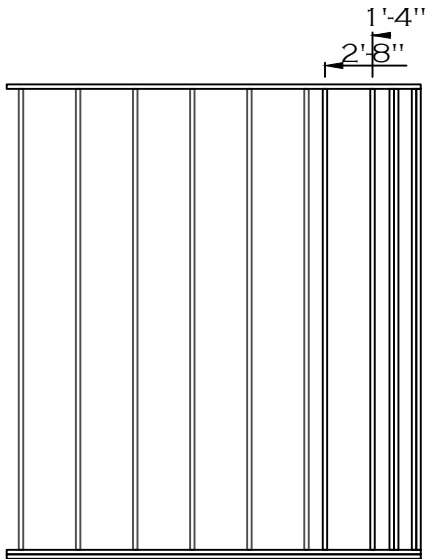
SHEET: SHOP	CONSTRUCTION FLOOR PLAN	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING #: 34M406		MODEL: 28'X72' MOUNTAINEER	STD PLAN "CONDITIONED": 1,896 FT ²
				MODEL #: MTN28724A		SERIES: MOUNTAINEER	REV. BY:
				DATE: 04/7/2026	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN RIFFEY	REV. DATE:





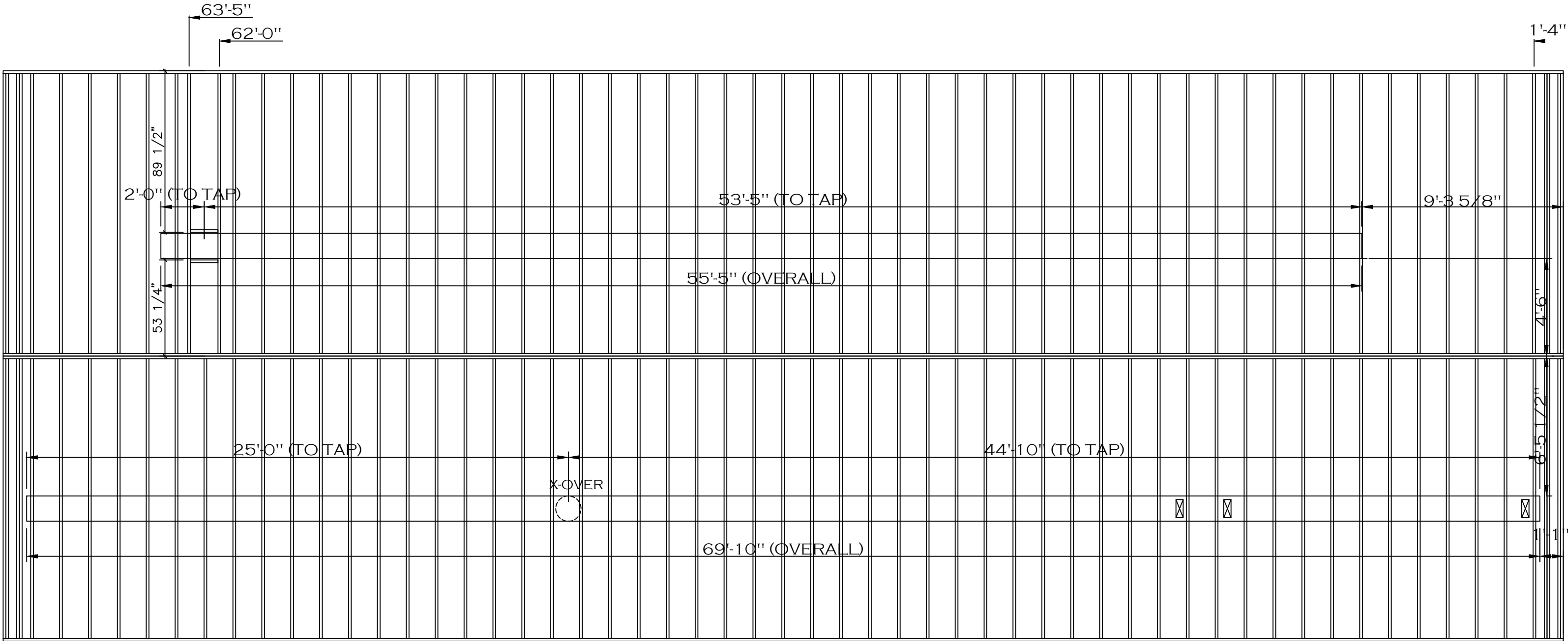


**PRIMARY BATH 72" SHOWER
OPTION**

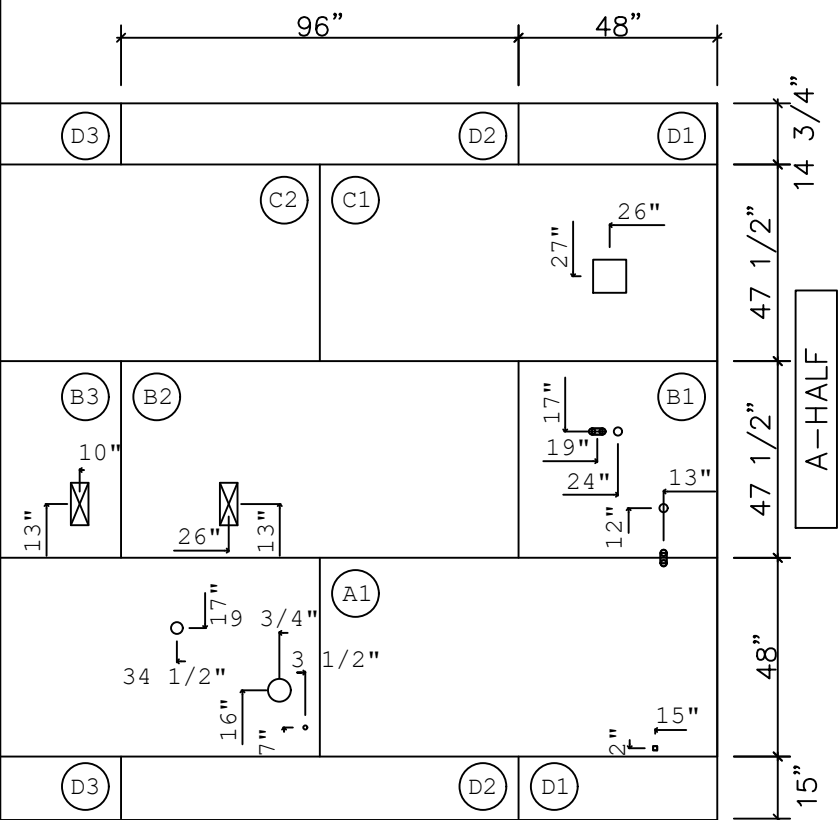
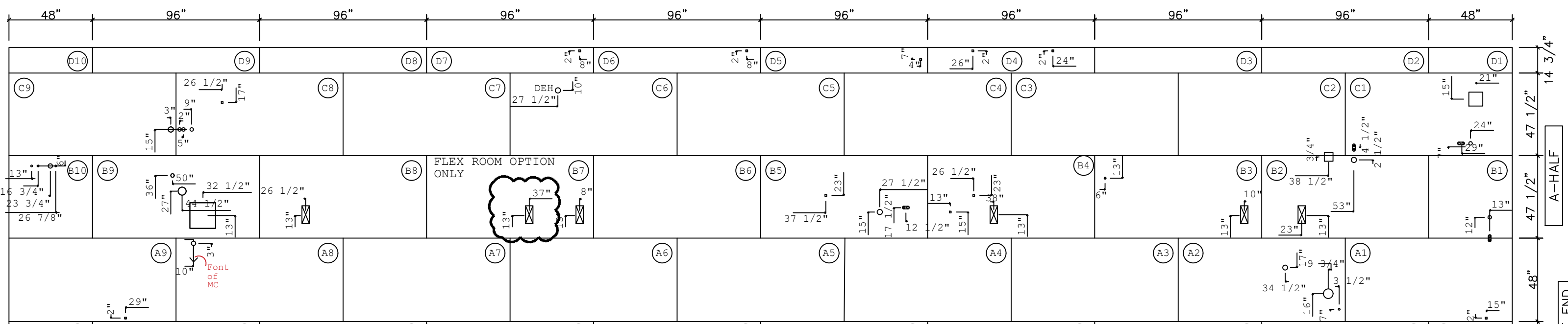


OPT. PRIMARY BATH 60" SHOWER

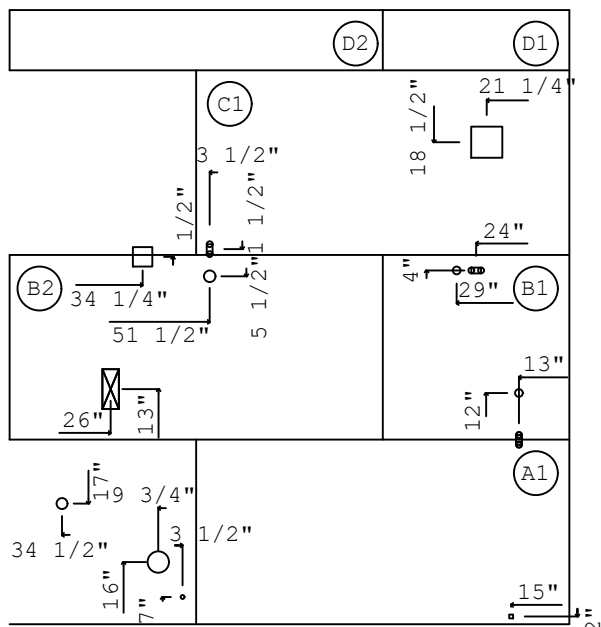
SHEET: FJIG	FLOOR JOIST LAYOUT	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	DRAWING # 34M406		MODEL: 28'X72' MOUNTAINEER	STD PLAN *CONDITIONED*: 1,896 FT ²
			MODEL # MTN28724A		SERIES: MOUNTAINEER	REV. BY:
			DATE: 04/7/2026	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN RIFFEY	REV. DATE:



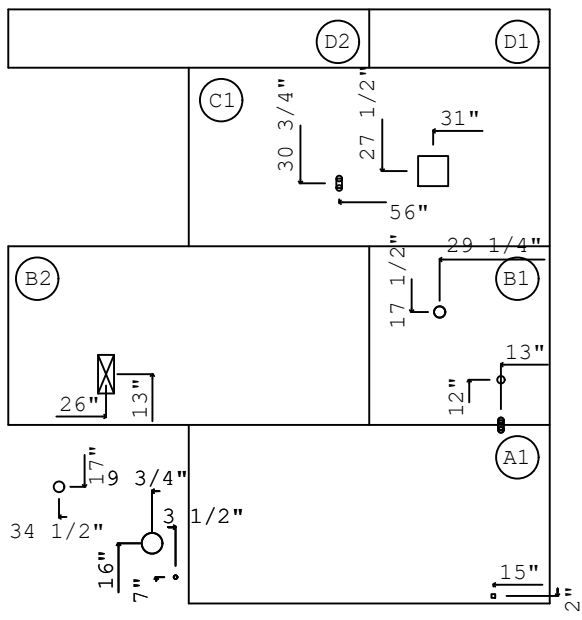
SHEET: HD	HEAT DUCT LAYOUT	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING #: 34M406		MODEL: 28'X72' MOUNTAINEER	STD PLAN *CONDITIONED*: 1,896 FT²
				MODEL #: MTN28724A		SERIES: MOUNTAINEER	REV. BY:
				DATE: 04/7/2026	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN RIFFEY	REV. DATE:



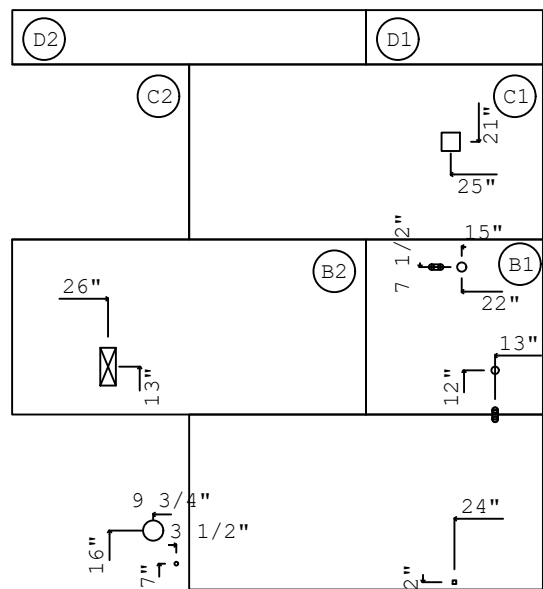
OPT. PRIMARY BATH 72" SHOWER



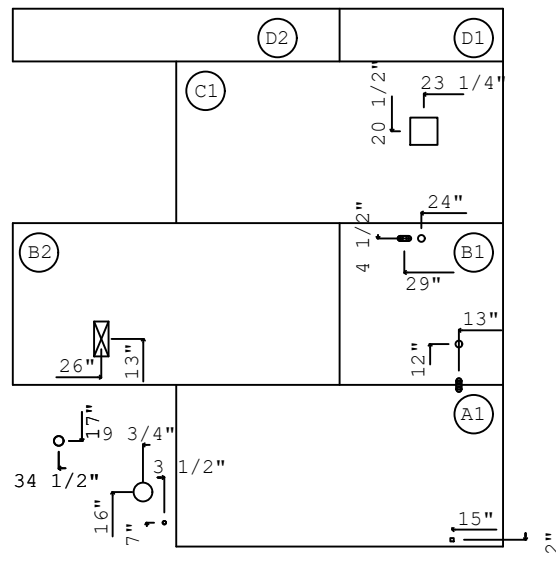
OPT. GLAMOUR PRIMARY BATH 60" SHOWER



OPT. PRIMARY BATH 72" SHOWER

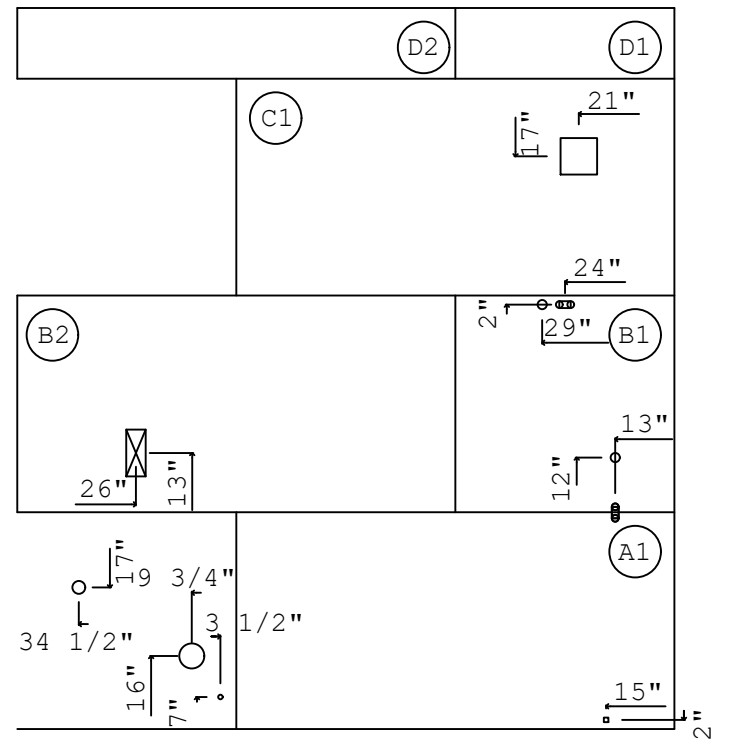
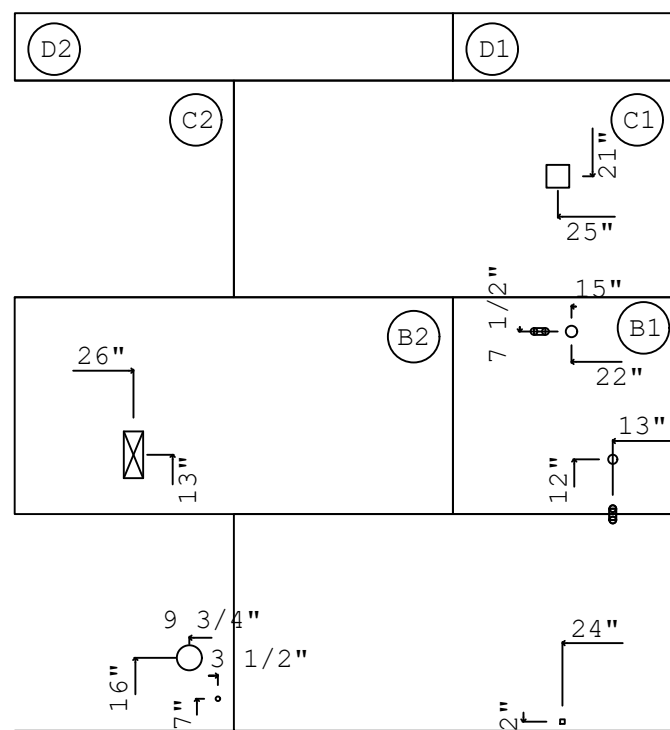
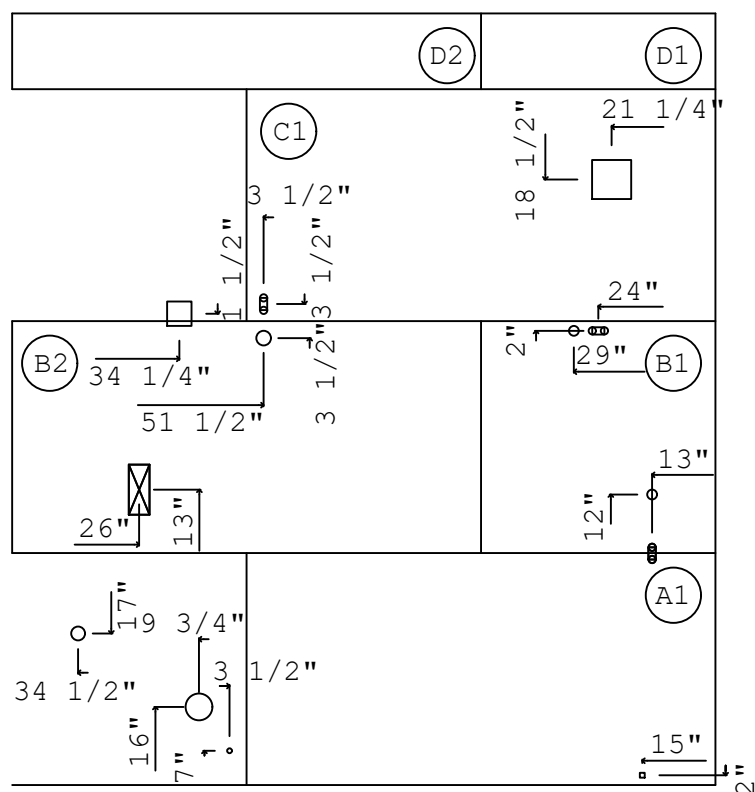
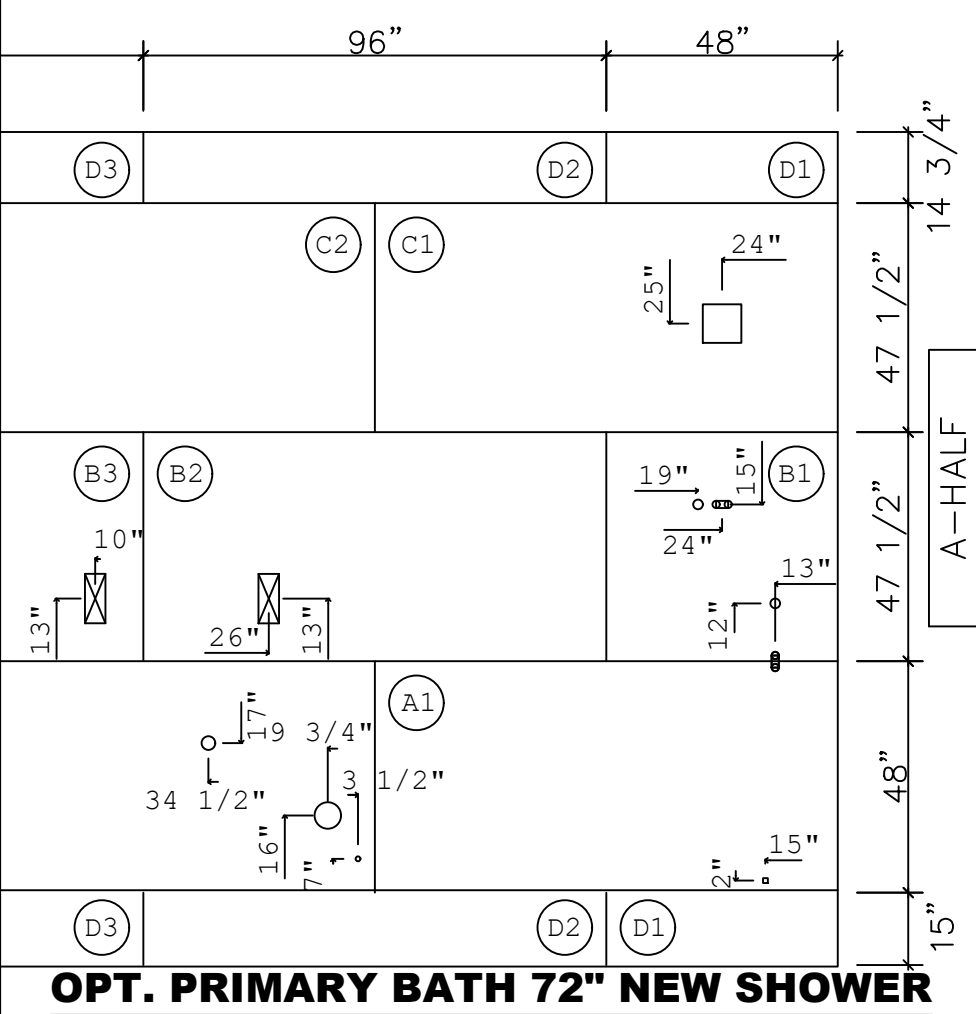
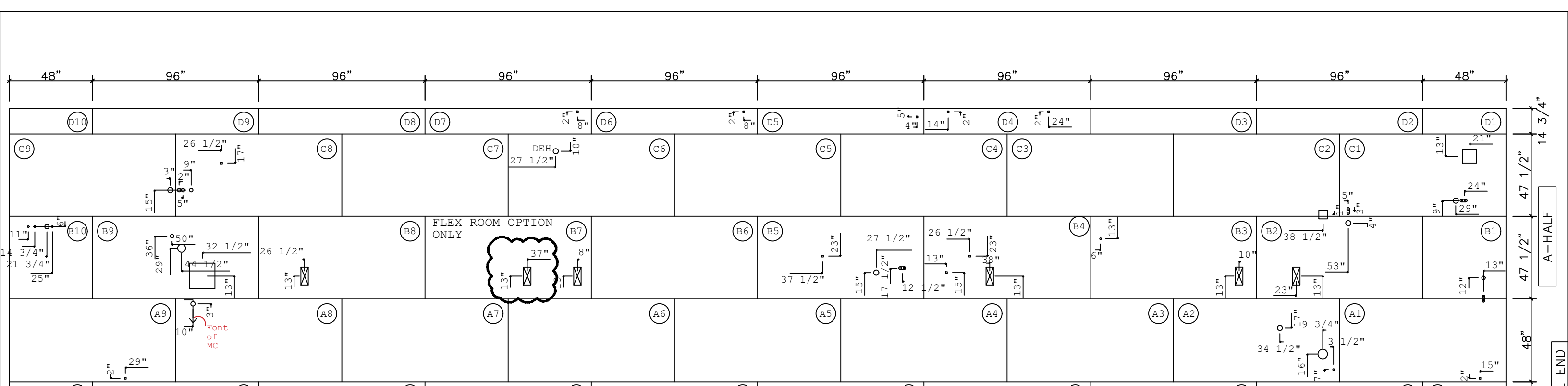


OPT. PRIMARY 65" SHOWER



OPT. PRIMARY BATH 60" SHOWER

SHEET:	FLD	FLOOR DECKING B HALF LAYOUT 2x6	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	DRAWING # 34M406		MODEL: 28'x72' MOUNTAINEER	STD PLAN *CONDITIONED*: 1,896 FT²
				MODEL # MTN28724A		SERIES: MOUNTAINEER SERIES	REV. BY:
				DATE: 06/5/2026	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN K. RIFFEY	REV. DATE:



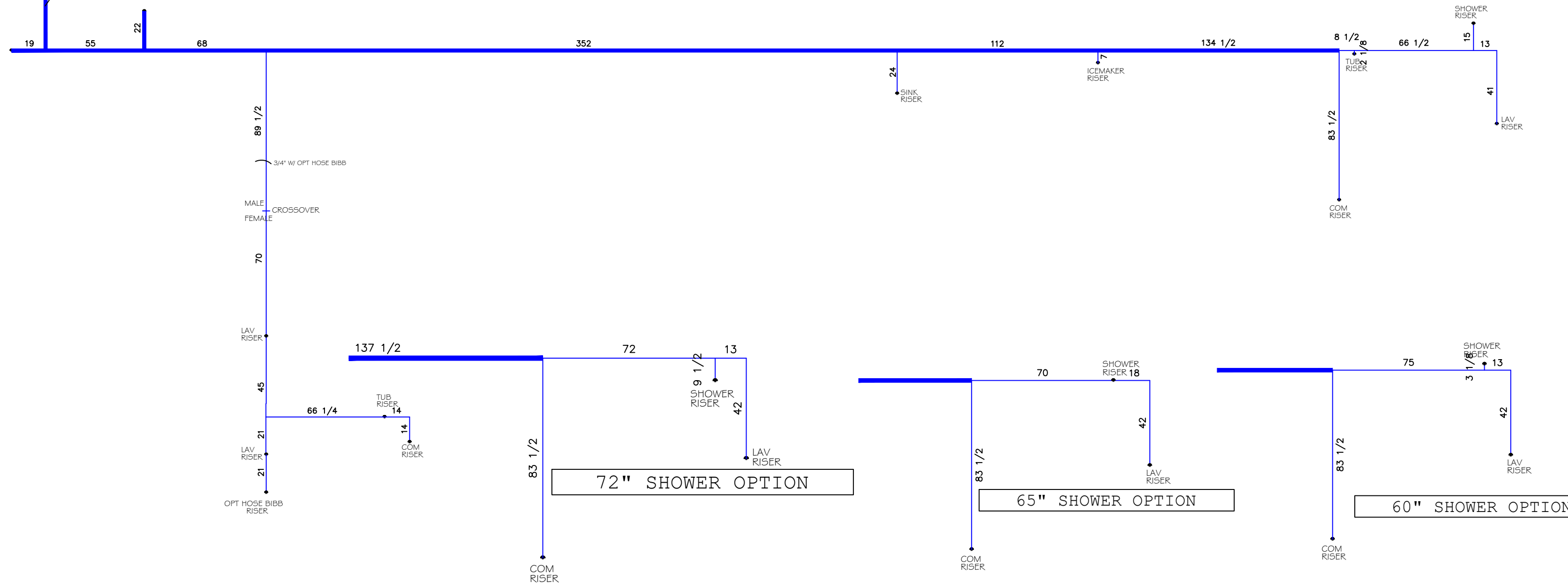
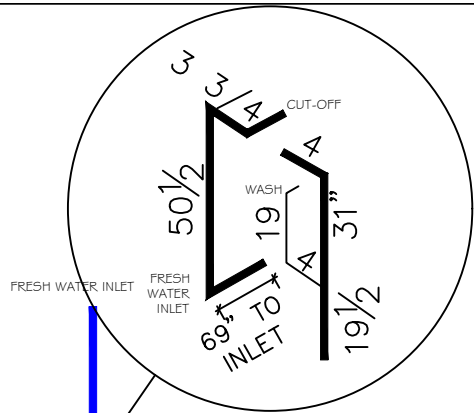
OPT. PRIMARY BATH 72" NEW SHOWER

OPT. GLAMOUR PRIMARY BATH 60" SHOWER

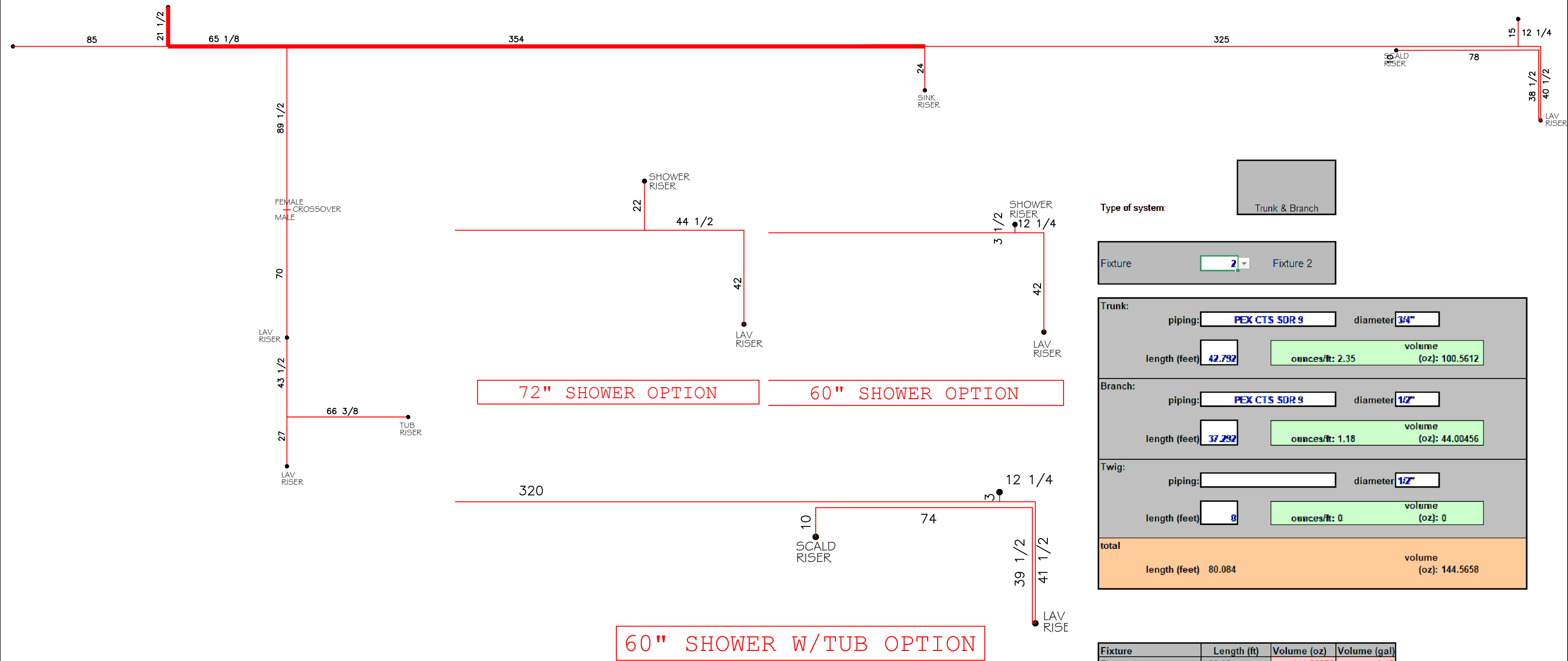
OPT. PRIMARY 65" SHOWER

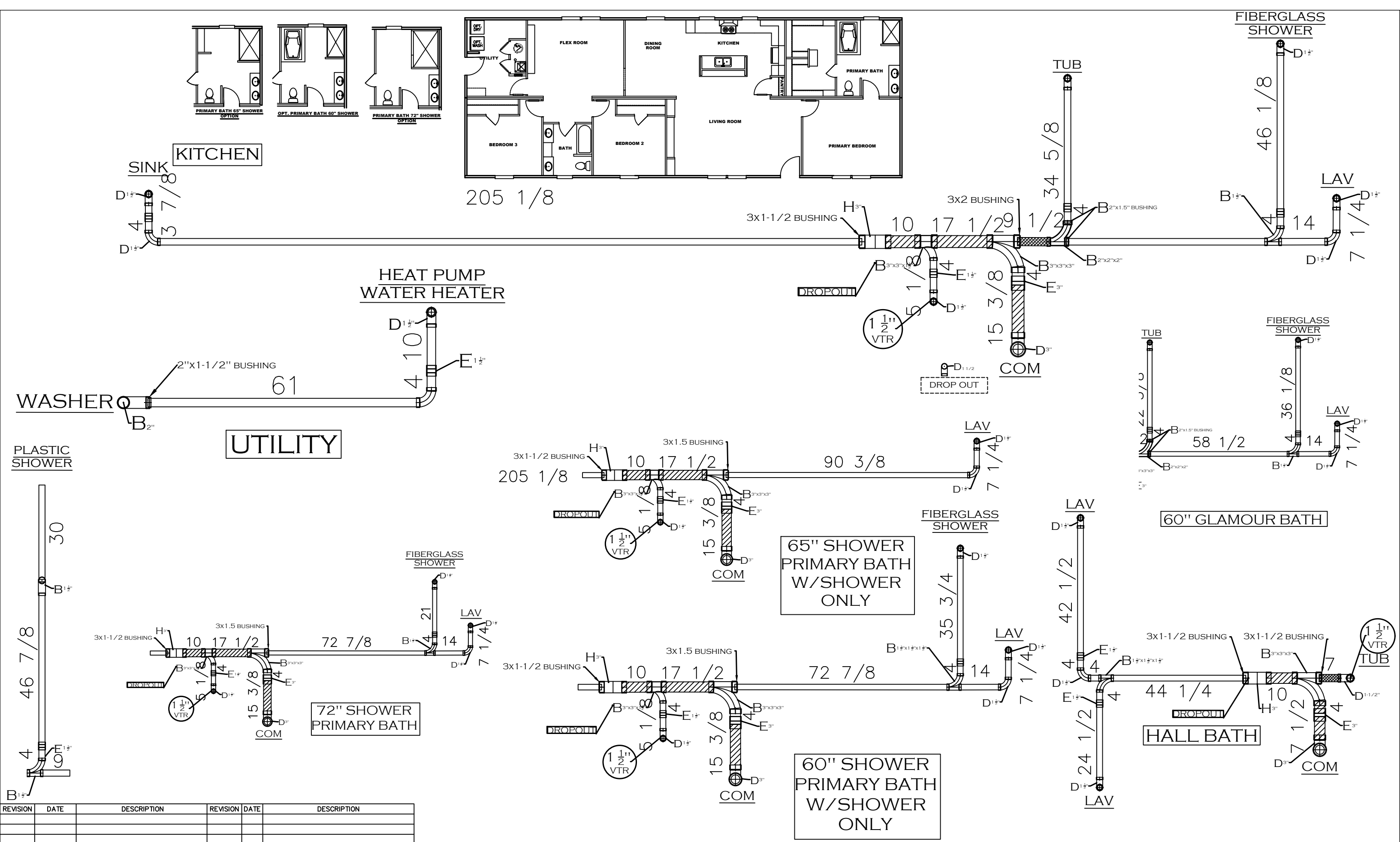
OPT. PRIMARY BATH 60" SHOWER

SHEET: FLD	FLOOR DECKING B HALF LAYOUT 2x4	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	DRAWING # 34M406		MODEL: 28'X72' MOUNTAINEER	STD PLAN *CONDITIONED*: 1,896 FT ²
			MODEL # MTN28724A		SERIES: MOUNTAINEER	REV. BY:
			DATE: 04/7/2026	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN K. RIFFEY	REV. DATE:



SHEET: CW	2D COLD WATER SUPPLY LINES	Clayton Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	DRAWING # 34M406		MODEL: 28'X72' MOUNTAINEER	STD PLAN *CONDITIONED*: 1,896 FT²
			MODEL # MTN28724A		SERIES: MOUNTAINEER SERIES	REV. BY:
			DATE: 06/5/2026	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN RIFFEY	REV. DATE:





REVISION	DATE	DESCRIPTION	REVISION	DATE	DESCRIPTION

SHEET:

DRAIN

2D DRAIN LINES
2x6

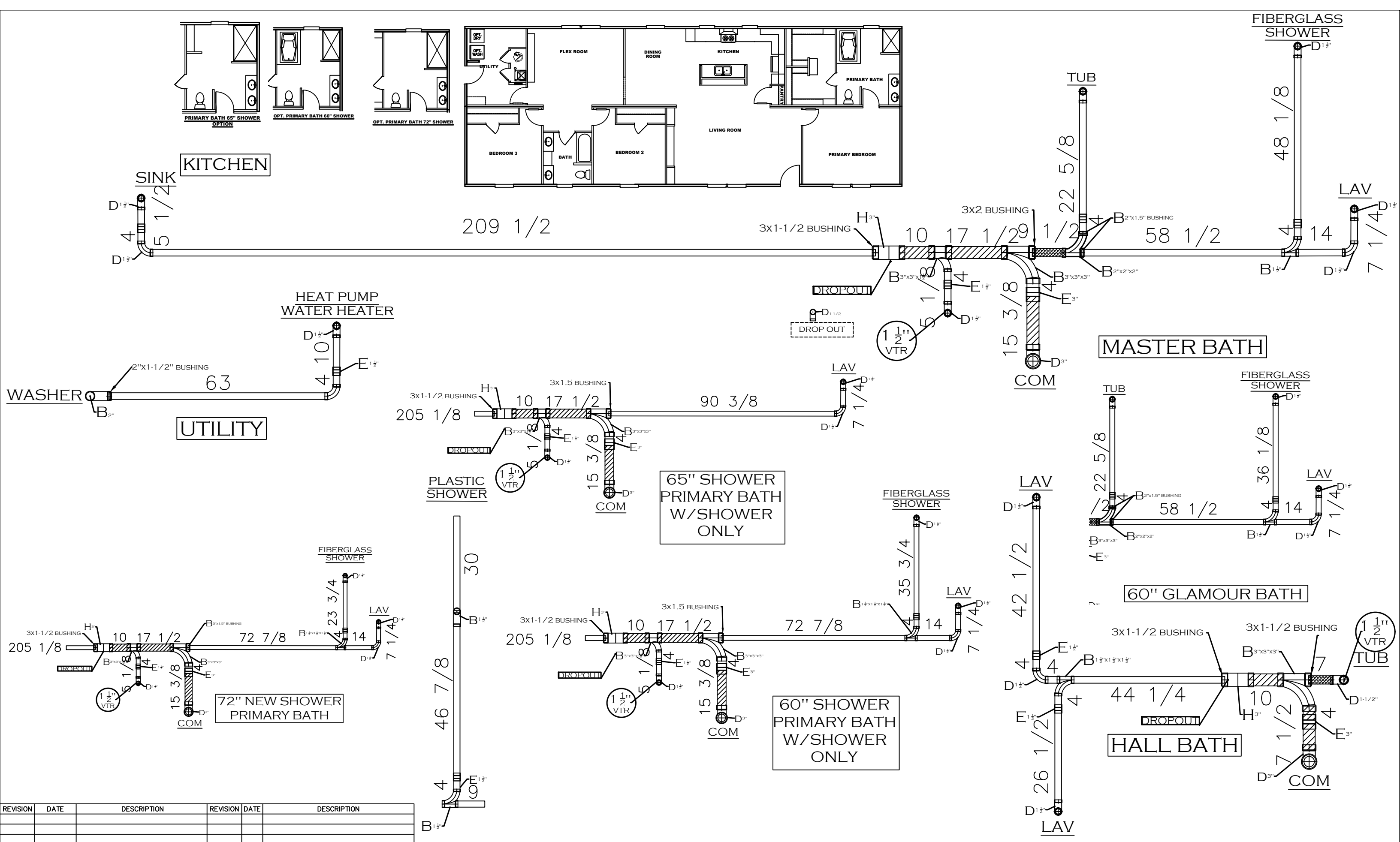
Clayton Clayton - 934
1420 Mountain Rd, Andersonville, TN 37705
PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER,
AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVE.
CLEARWATER, FL. 33756

DRAWING #	34M406
MODEL #	MTN28724A
DATE	06/5/2026
SCALE	N.T.S.

MODEL:	28'x72' MOUNTAINEER
SERIES:	MOUNTAINEER SERIES
PRODUCT DESIGNER:	BRIAN K. RIFFEY

STD PLAN *CONDITIONED*:	1,896 FT ²
REV. BY:	
REV. DATE:	



REVISION	DATE	DESCRIPTION	REVISION	DATE	DESCRIPTION

SHEET:
DRAIN

2D DRAIN LINES
2X4

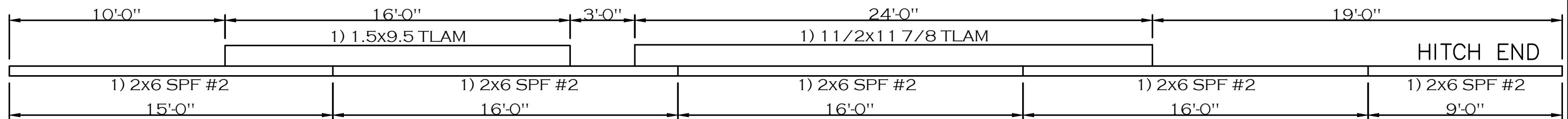
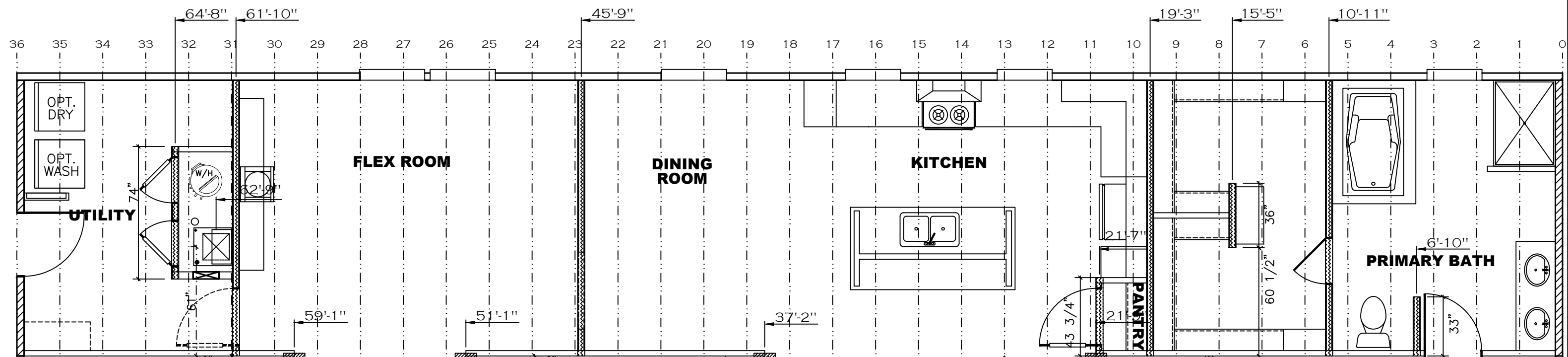
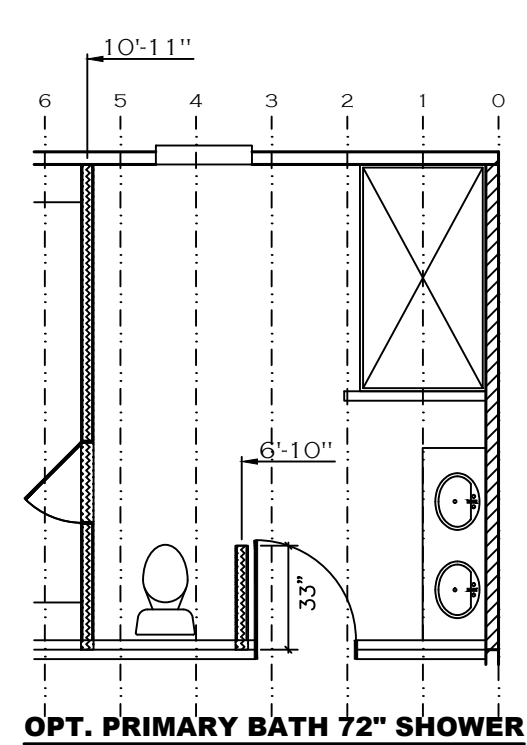
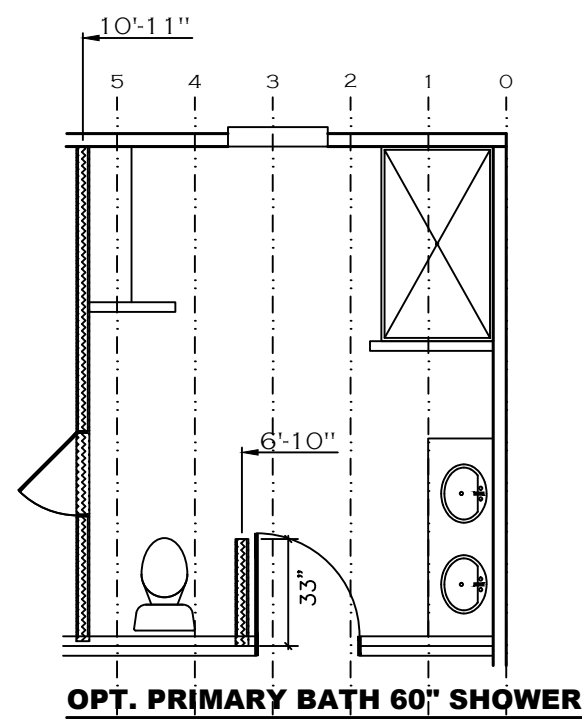
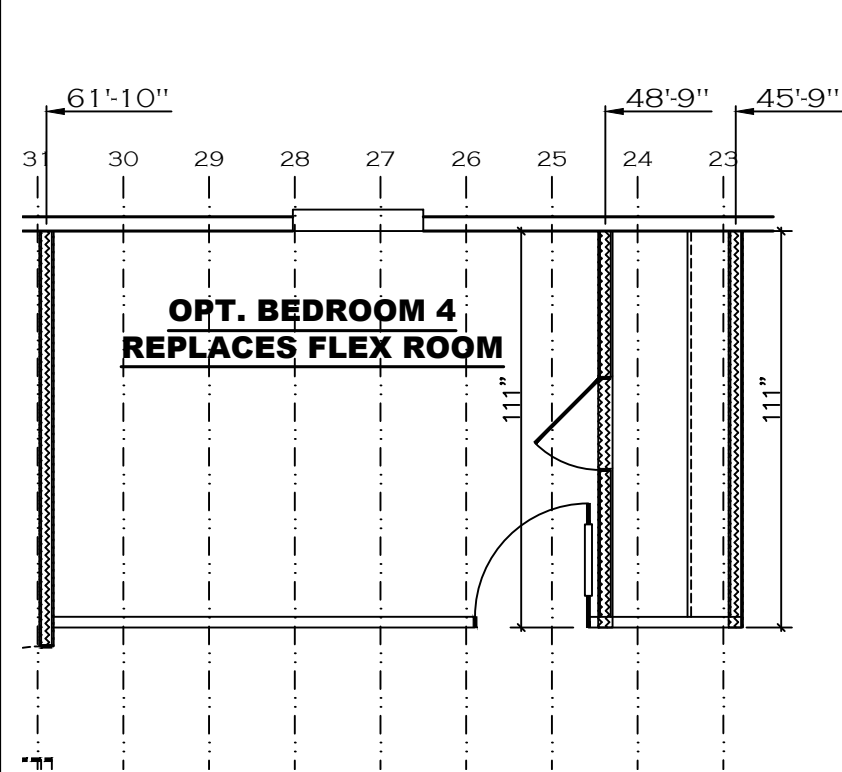
Clayton Clayton - 934
1420 Mountain Rd, Andersonville, TN 37705
PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER,
AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVE.
CLEARWATER, FL. 33756

DRAWING # 34M406
MODEL # MTN28724A
DATE: 06/5/2026 SCALE: N.T.S.

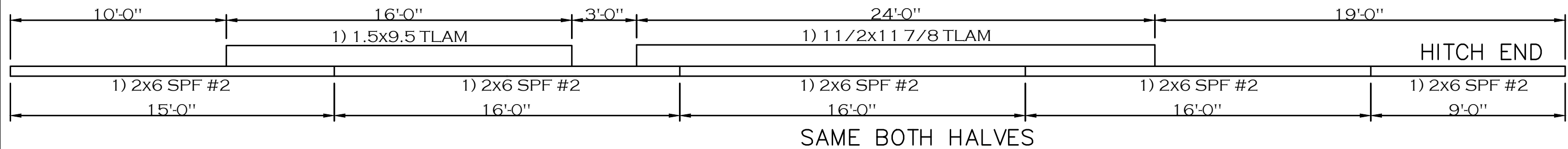
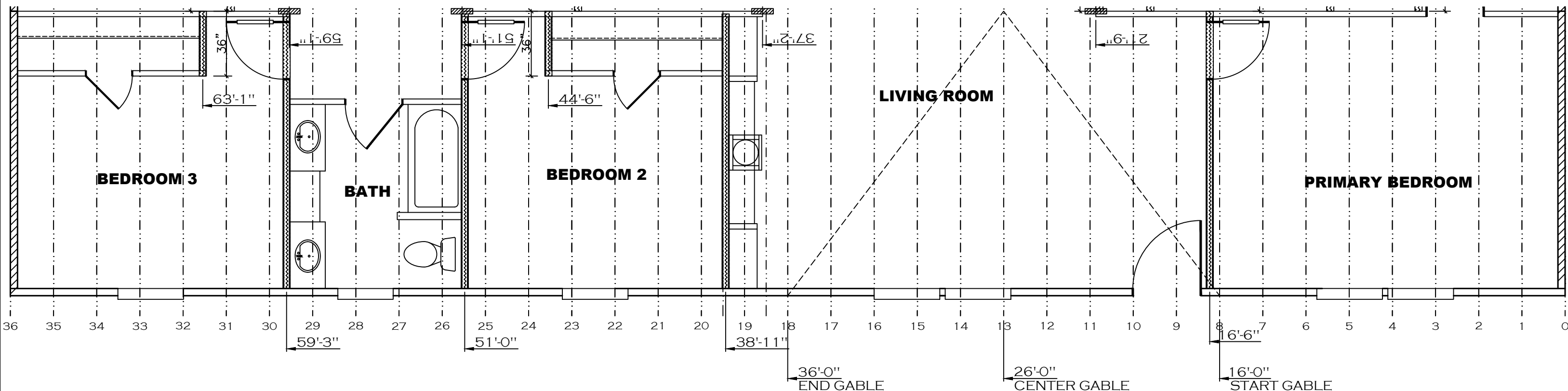
MODEL: 28'X72' MOUNTAINEER
SERIES: MOUNTAINEER SERIES
PRODUCT DESIGNER: BRIAN K. RIFFEY

STD PLAN "CONDITIONED": 1,896 FT²
REV. BY:
REV. DATE:

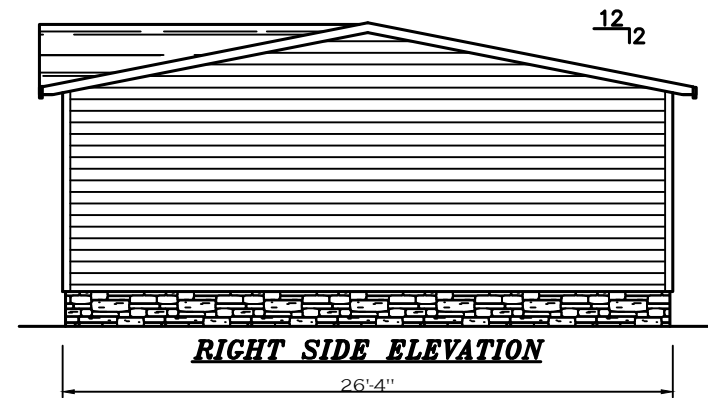
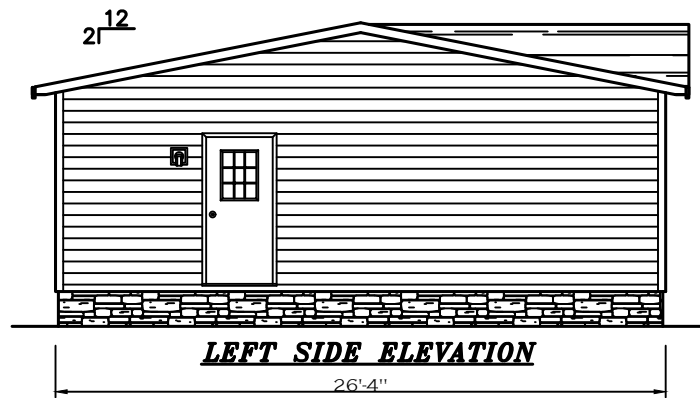
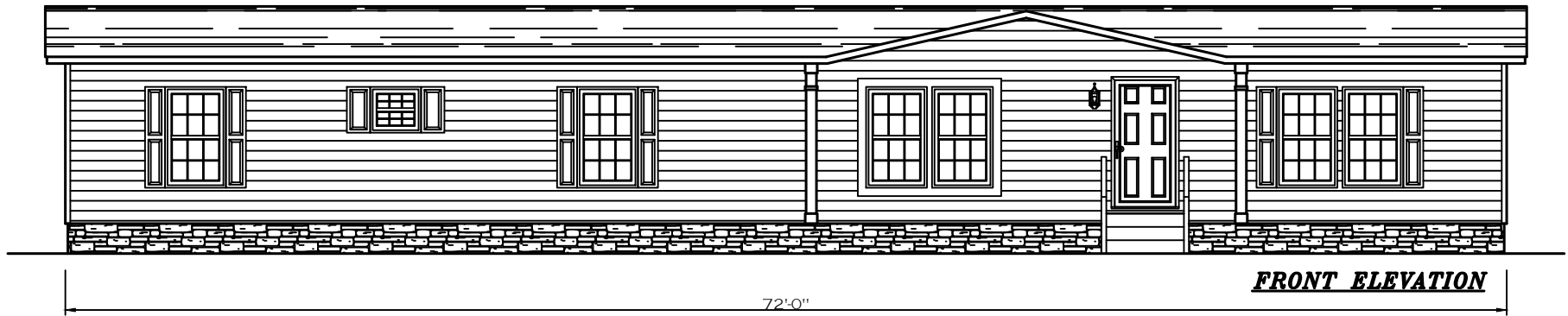


SAME BOTH HALVES

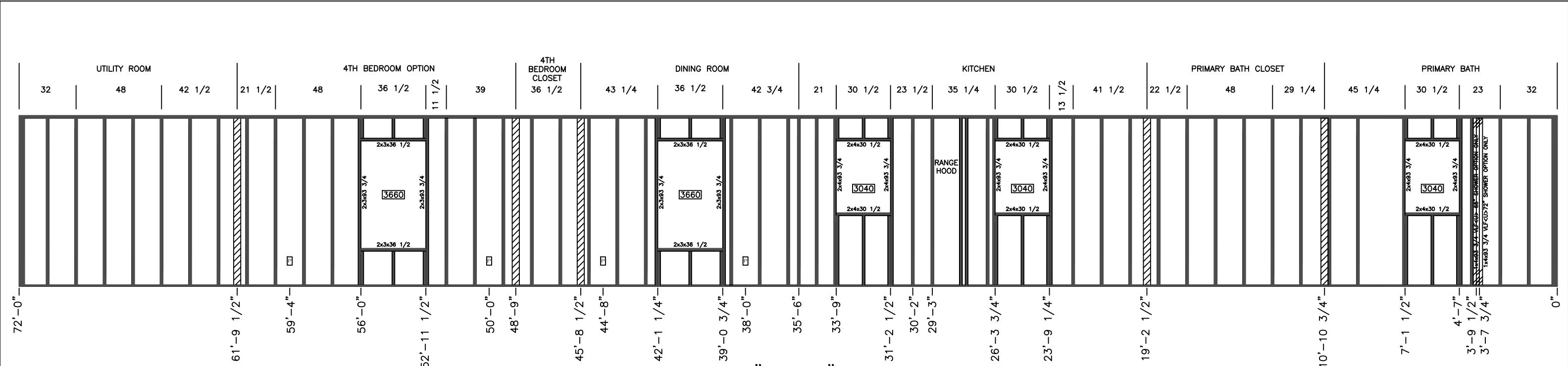
SHEET: CJIG	RIDGEBEAM – RAFTER PLAN A HALF	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING # 34M406 MODEL # MTN28724A DATE: 04/7/2026 SCALE: N.T.S.	MODEL: 28'x72' MOUNTAINEER SERIES: MOUNTAINEER PRODUCT DESIGNER: BRIAN K. RIFFEY	STD PLAN *CONDITIONED*: 1,896 FT² REV. BY: REV. DATE:
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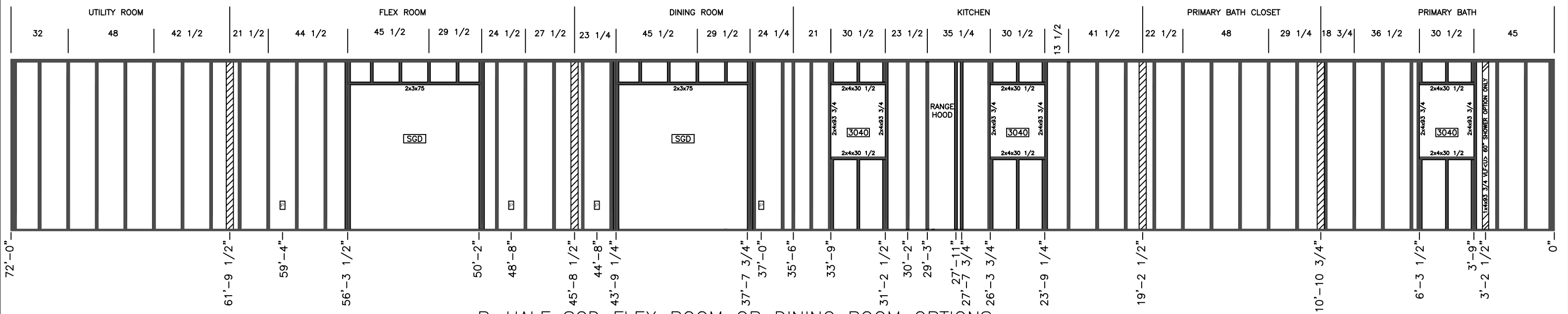
SHEET: CJIG	RIDGEBEAM – RAFTER PLAN B HALF	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING #: 34M406		MODEL: 28'X72' MOUNTAINEER	STD PLAN "CONDITIONED": 1,896 FT ²
				MODEL #: MTN28724A		SERIES: MOUNTAINEER	REV. BY:
				DATE: 04/7/2026	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN K. RIFFEY	REV. DATE:



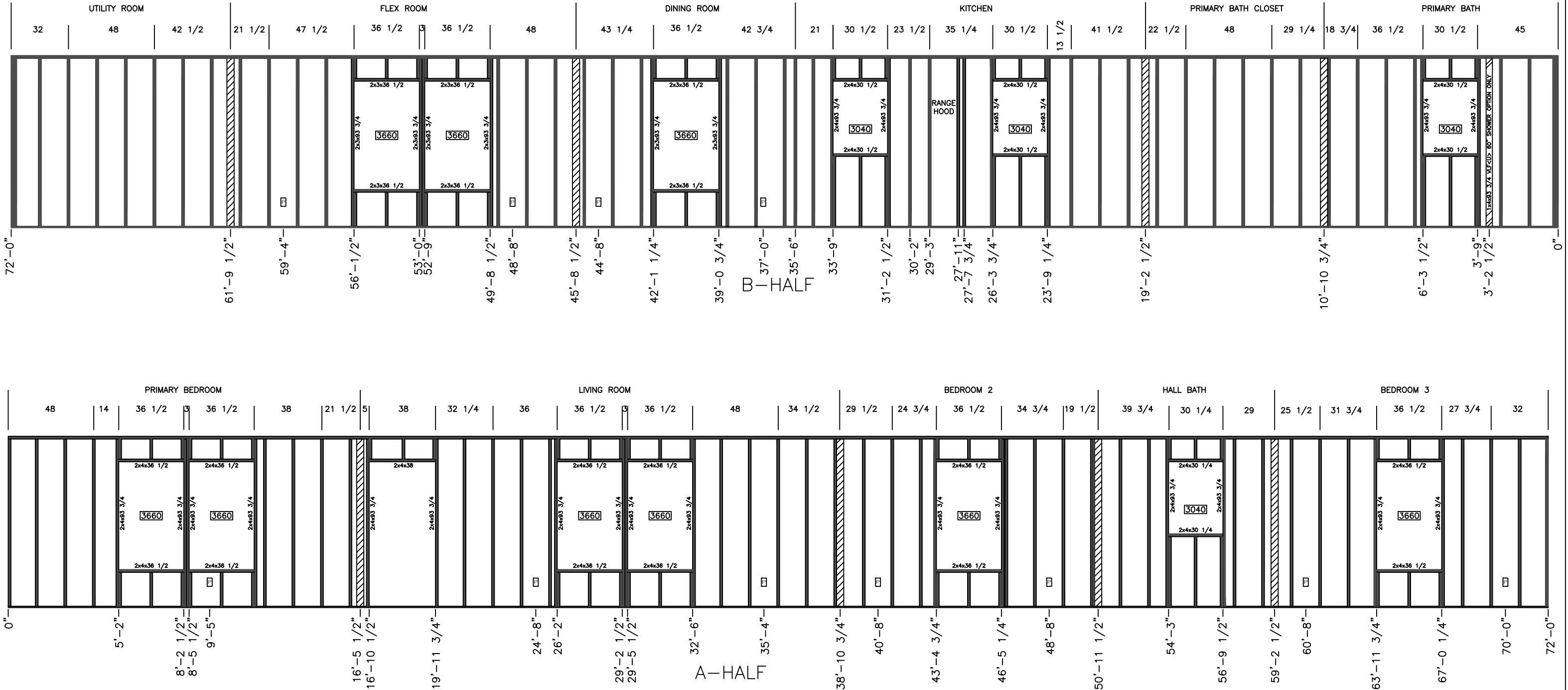
SHEET: ELEV.1	ELEVATION	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING #: 34M406 MODEL #: MTN28724A DATE: 04/7/2026	SCALE: 1:80 MODEL: 28'X72' MOUNTAINEER SERIES: MOUNTAINEER PRODUCT DESIGNER: MADISONS	STD PLAN "CONDITIONED": 1,896 FT² REV. BY: REV. DATE:
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B-HALF 4TH BEDROOM & 72" & 65" SHOWER OPTIONS



B-HALF SGD FLEX ROOM OR DINING ROOM OPTIONS



SHEET:

SW

SIDEWALLS



Clayton - 934
1420 Mountain Rd, Andersonville, TN 37705
PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER,
AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVE.
CLEARWATER, FL. 33756

DRAWING #: 34M406

MODEL #: MTN28724A

DATE: 04/7/2026

SCALE: N.T.S.

MODEL: 28'X72' MOUNTAINEER

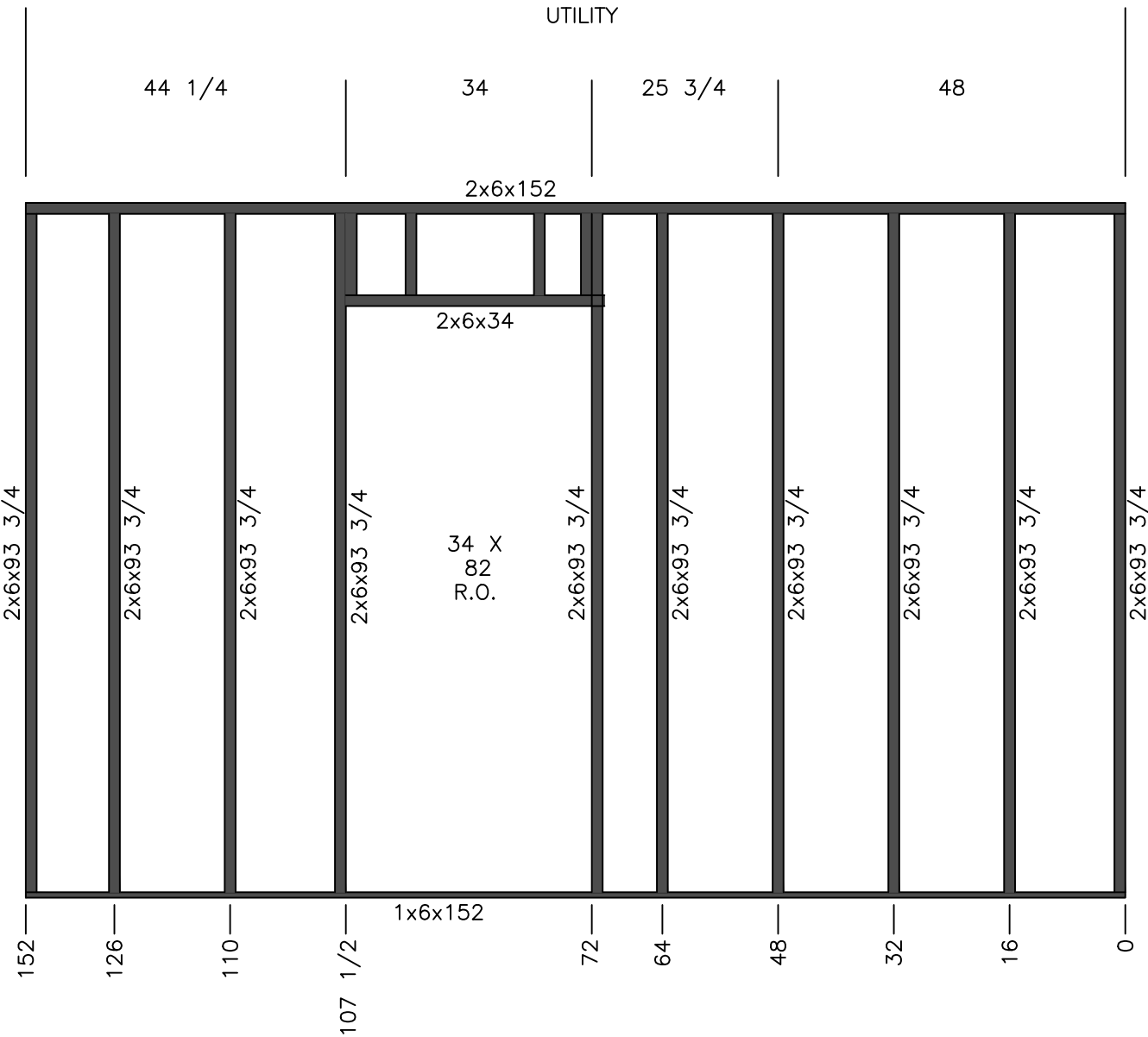
SERIES: MOUNTAINEER

PRODUCT DESIGNER: BRIAN K. RIFFEY

STD PLAN *CONDITIONED*: 1,896 FT²

REV. BY:

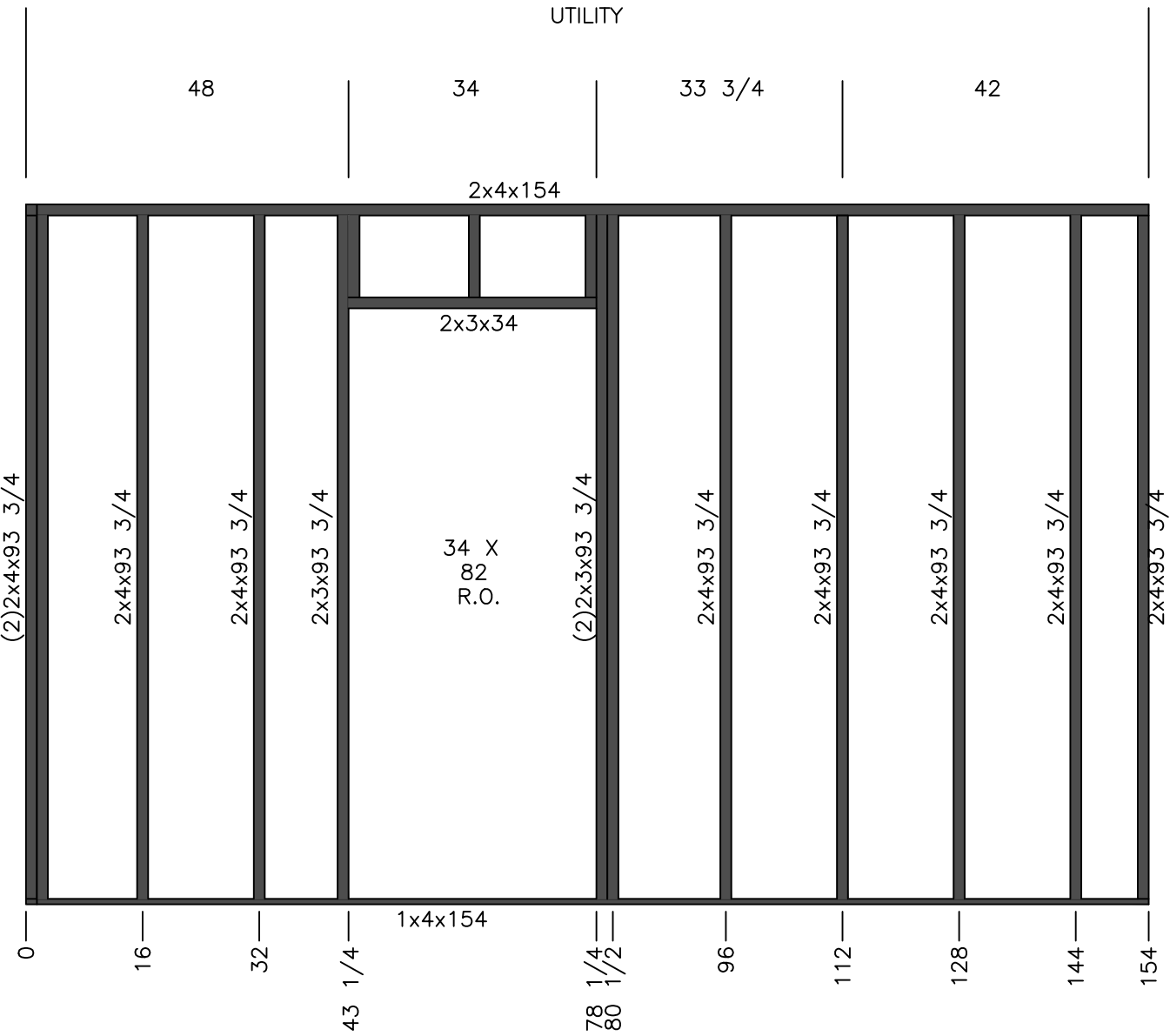
REV. DATE:



CUTLIST		
QTY	SIZE	TYPE
1	152	1x6
1	152	2x6
10	93 3/4	2x6
1	35 3/4	2x6
4	11 1/4	2x6

	Model #: MTN28724A		Drawing #: 34M406
	Date: 06/4/2026	Scale: N.T.S.	
Product Designer: B.K.R.	Model: 28' x 72' Mountaineer		
WALL 29		Rev:	

STUD SPACING 16"



CUTLIST		
QTY	SIZE	TYPE
1	154	1x4
1	154	2x4
12	93 3/4	2x4
1	34	2x4
3	10 1/4	2x4



Model #: MTN28724A

Date: 06/4/2026

Scale: N.T.S.

Drawing #:

34M406

Product Designer:

B.K.R.

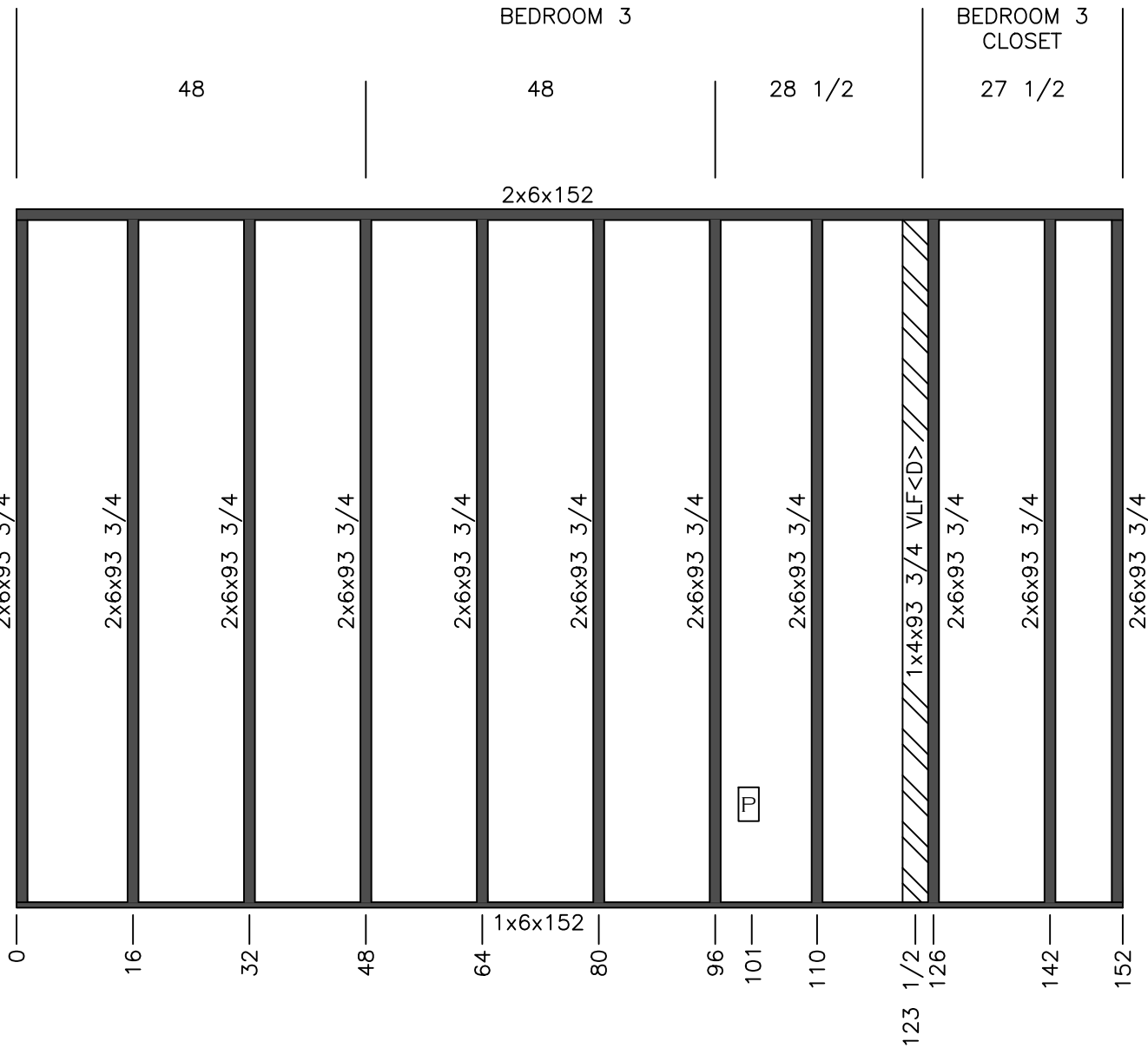
Model:

28' x 72' Mountaineer

WALL 29

Rev:

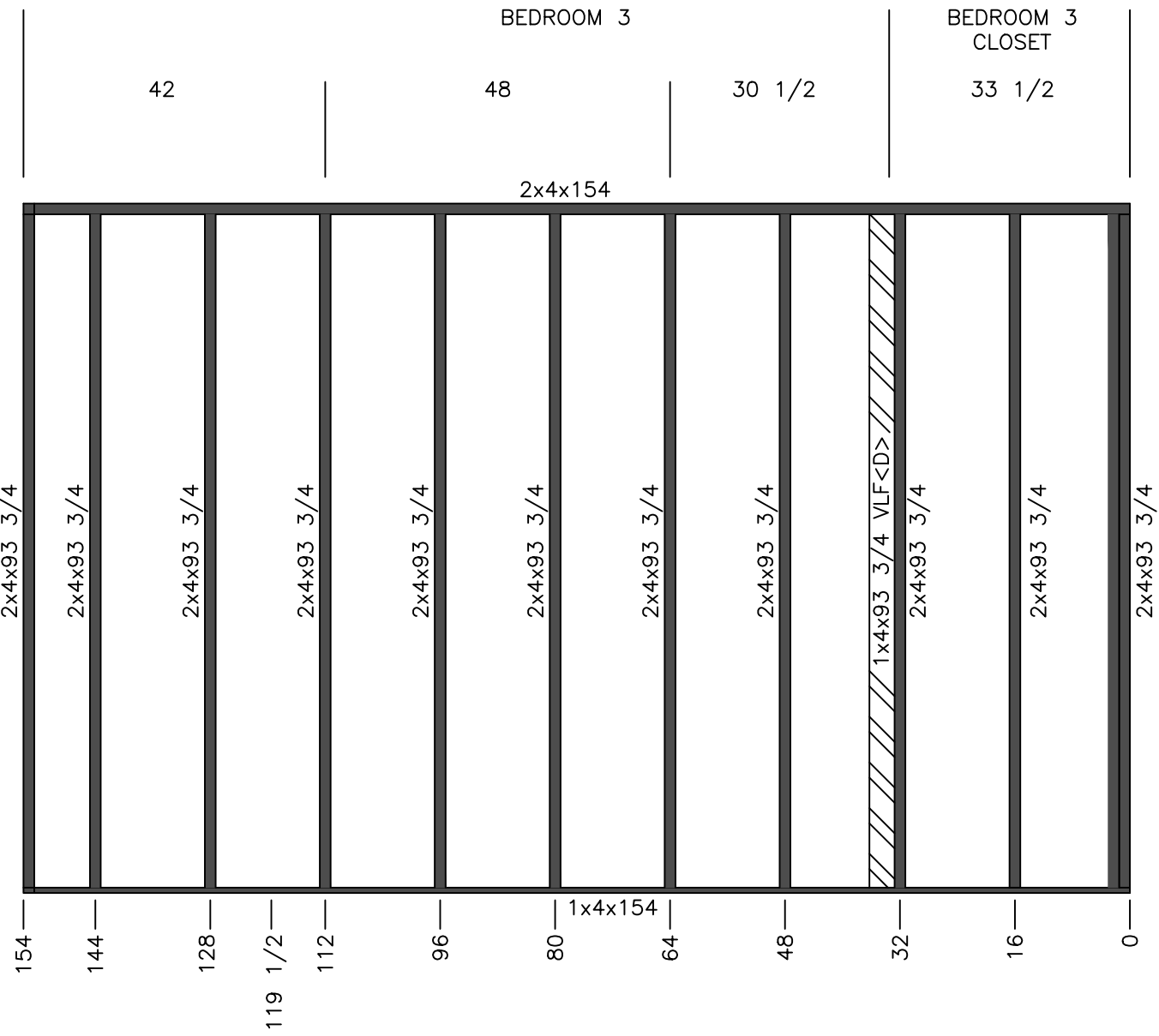
STUD SPACING 16"



CUTLIST		
QTY	SIZE	TYPE
1	152	1x6
1	152	2x6
11	93 3/4	2x6
1	93 3/4 VLF <U>	1x4

	Model #: MTN28724A		Drawing #: 34M406
	Date: 06/4/2026	Scale: N.T.S.	
Product Designer: B.K.R.	Model: 28' x 72' Mountaineer		
WALL 30		Rev:	

STUD SPACING 16"



CUTLIST		
QTY	SIZE	TYPE
1	154	1x4
1	154	2x4
12	93 3/4	2x4
1	93 3/4 VLF <U>	1x4



Model #: MTN28724A

Date: 06/4/2026

Scale: N.T.S.

Drawing #:

34M406

Product Designer:

B.K.R.

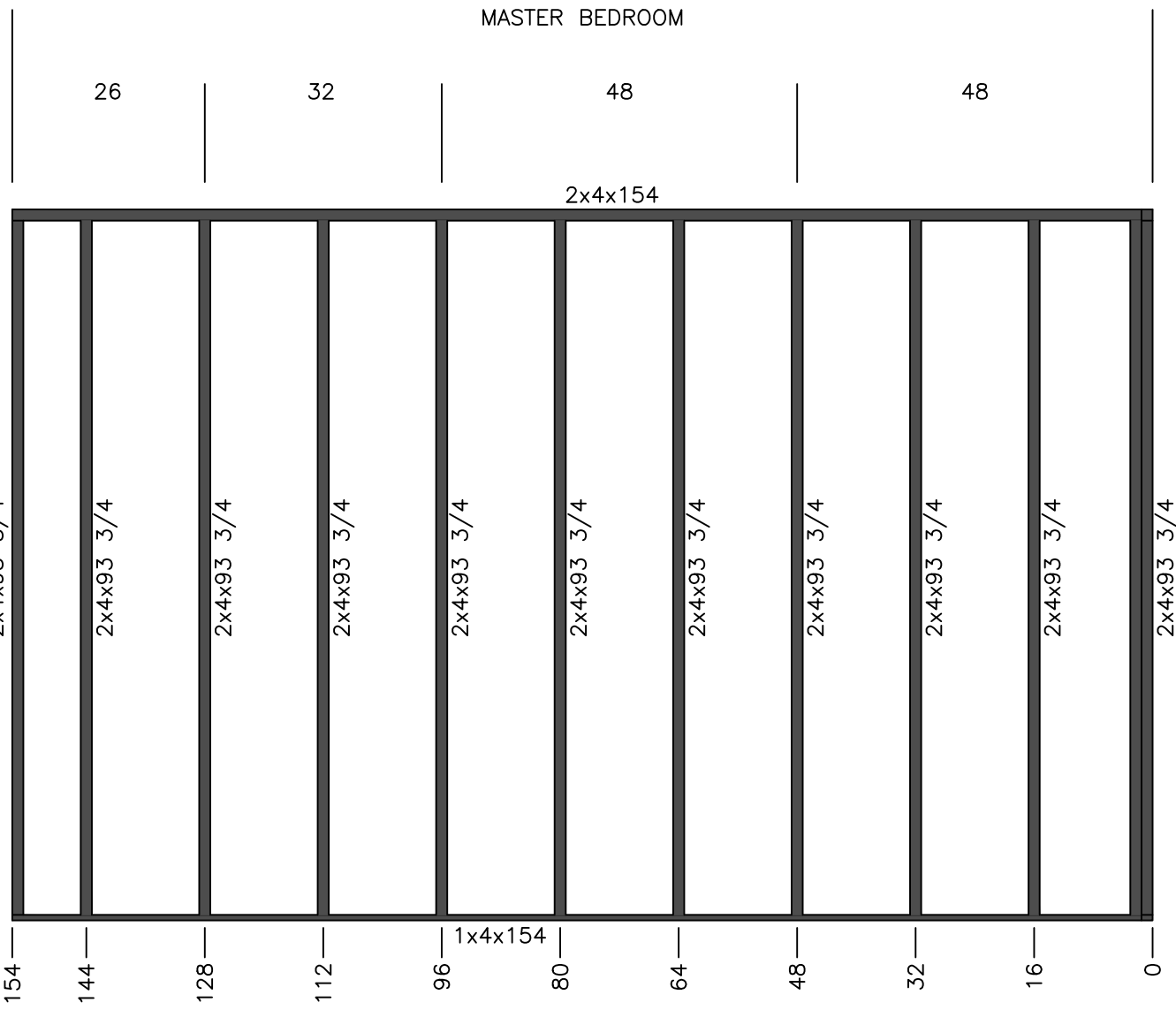
Model:

28' x 72' Mountaineer

WALL 30

Rev:

STUD SPACING 16"

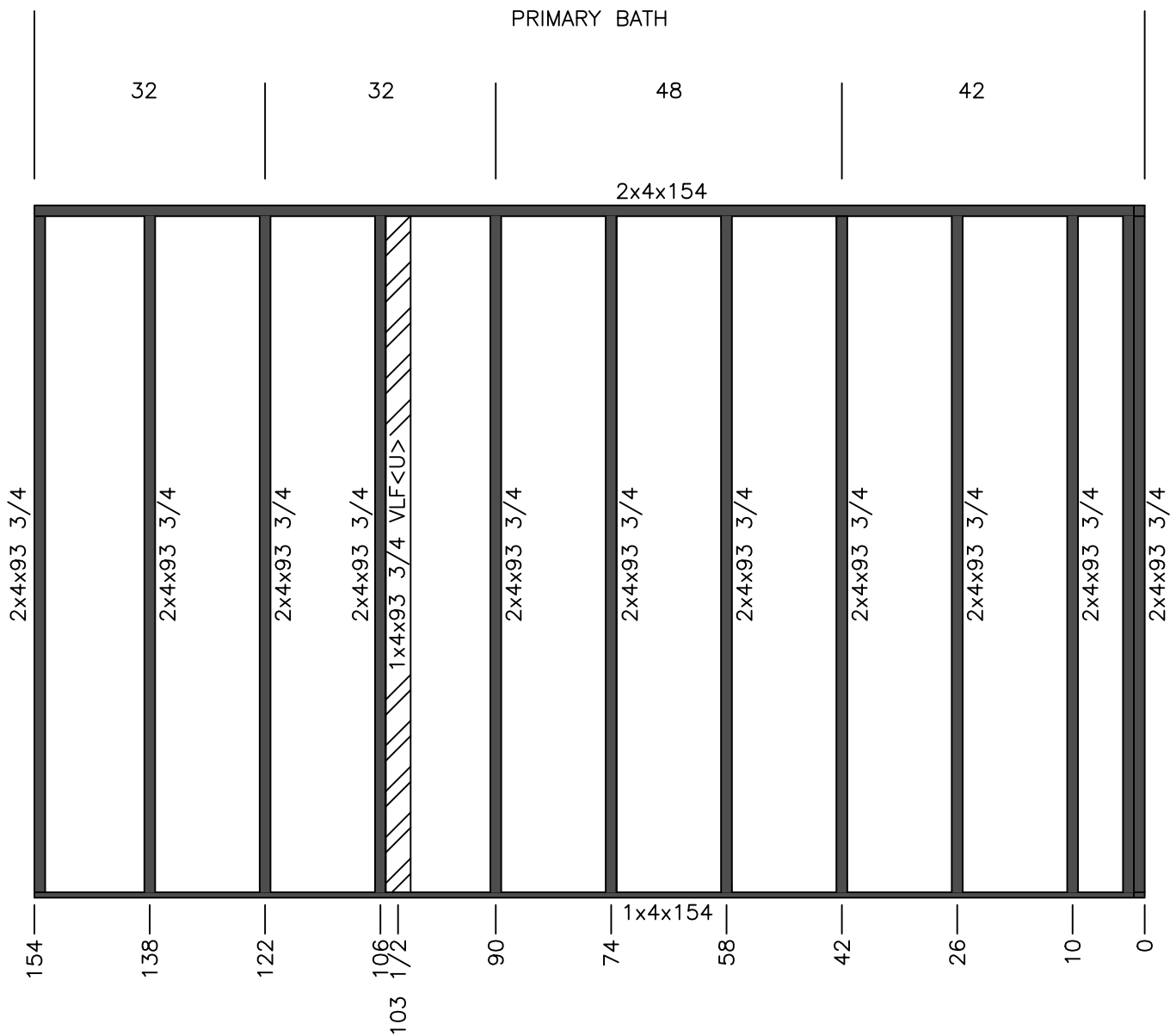


CUTLIST		
QTY	SIZE	TYPE
1	154	1x4
1	154	2x4
12	93 3/4	2x4

STUD SPACING 16"

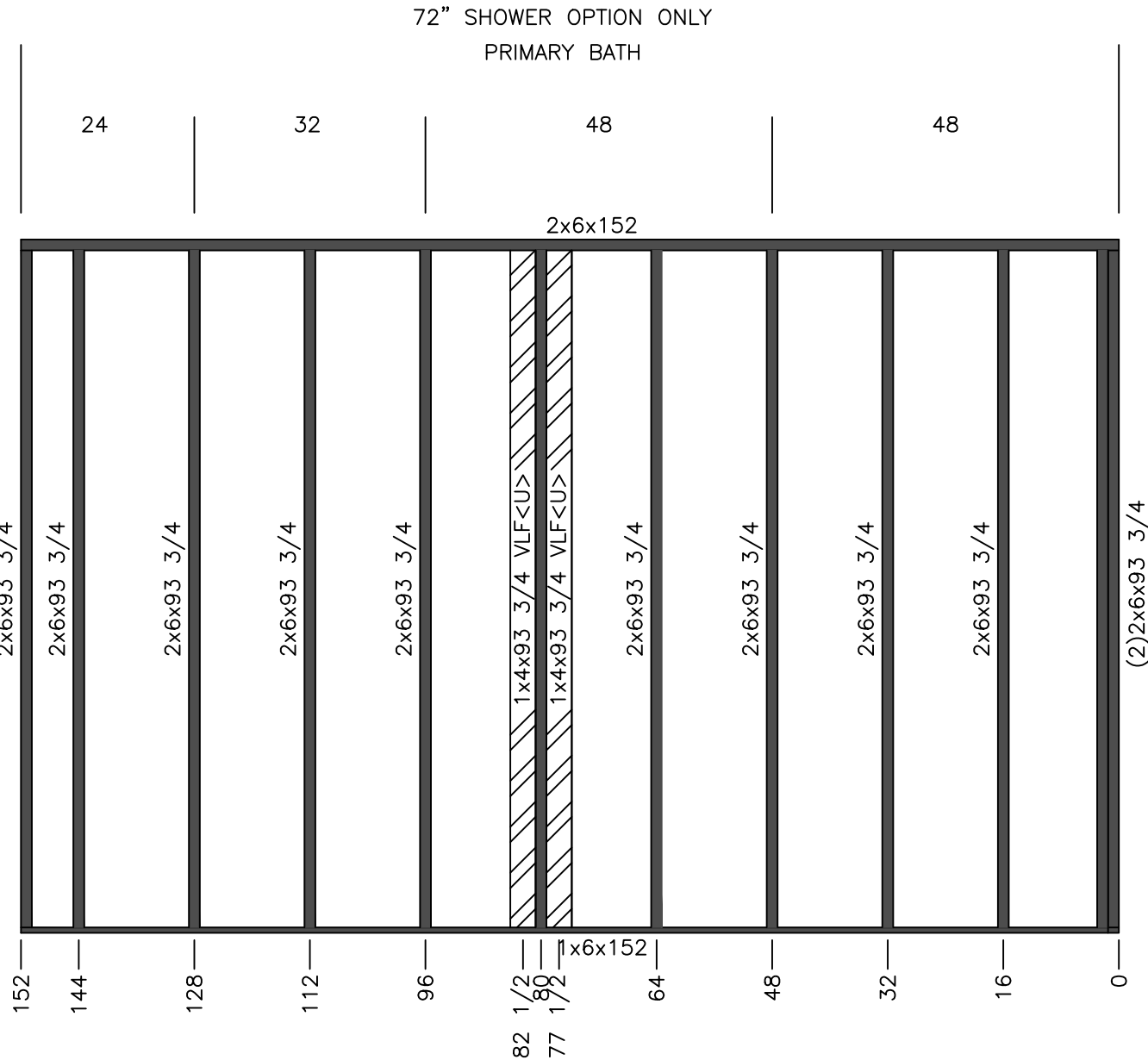
	Model #: MTN28724A		Drawing #: 34M406
	Date: 06/4/2026	Scale: N.T.S.	
Product Designer: B.K.R.	Model: 28' x 72' Mountaineer		
WALL 31		Rev:	

STUD SPACING 16"



CUTLIST		
QTY	SIZE	TYPE
1	154	1x4
1	154	2x4
12	93 3/4	2x4
2	93 3/4 VLF <U>	1x4

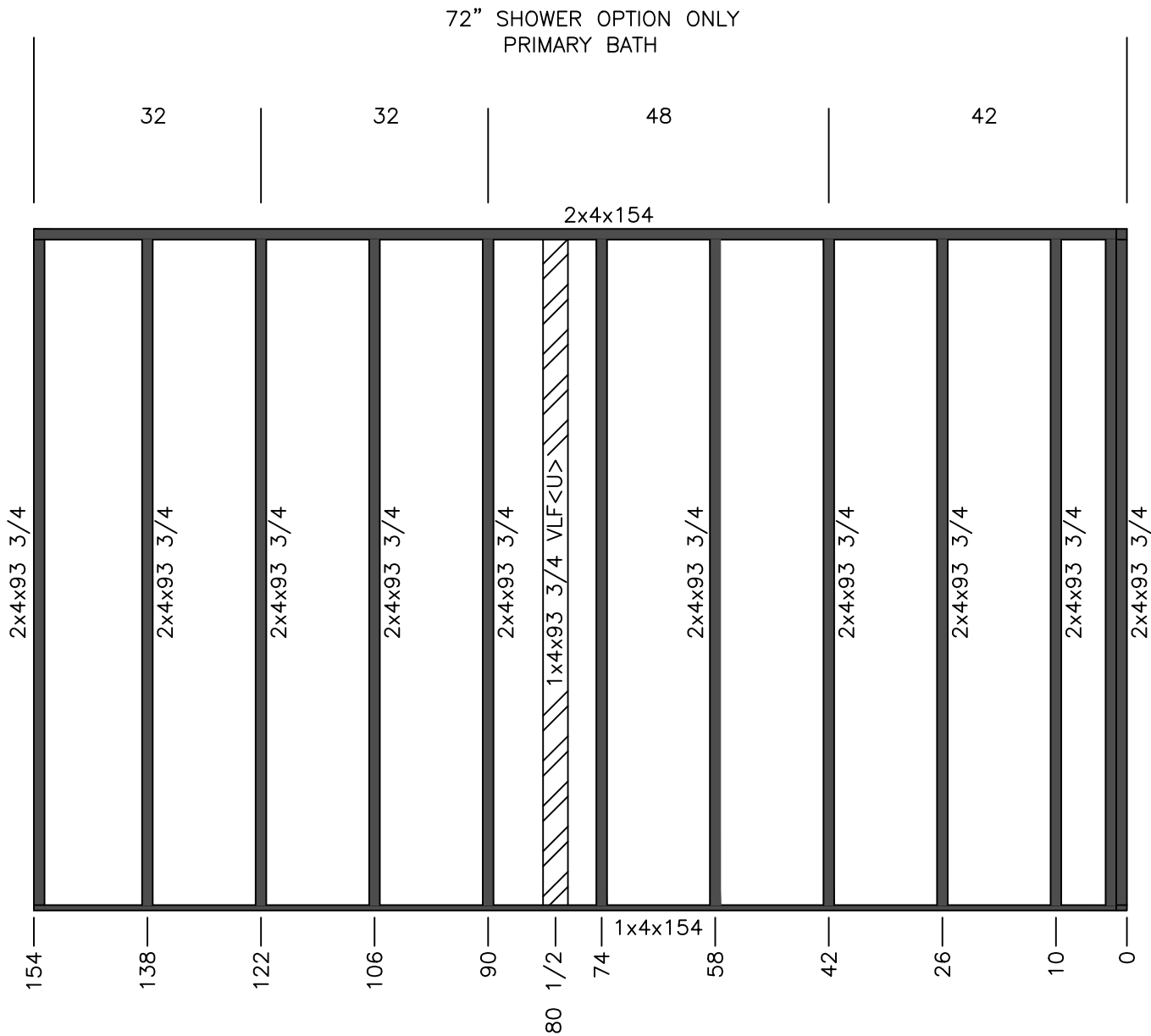
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		Date: 06/4/2026	Scale: N.T.S.	
Product Designer: B.K.R.		Model: 28' x 72' Mountaineer		
WALL 32			Rev:	



CUTLIST		
QTY	SIZE	TYPE
1	152	1x6
1	152	2x6
12	93 3/4	2x6
2	93 3/4 VLF <U>	1x4

	Model #: MTN28724A		Drawing #: 34M406
	Date: 06/4/2026	Scale: N.T.S.	
Product Designer: B.K.R.	Model: 28' x 72' Mountaineer		
WALL 32A		Rev:	

STUD SPACING 16"



CUTLIST		
QTY	SIZE	TYPE
1	154	1x4
1	154	2x4
12	93 3/4	2x4
2	93 3/4 VLF <U>	1x4



Product Designer:
B.K.R.

Model #:

Model:

Model #: MTN28724A

28' x 72' Mountaineer

Date: 06/4/2026

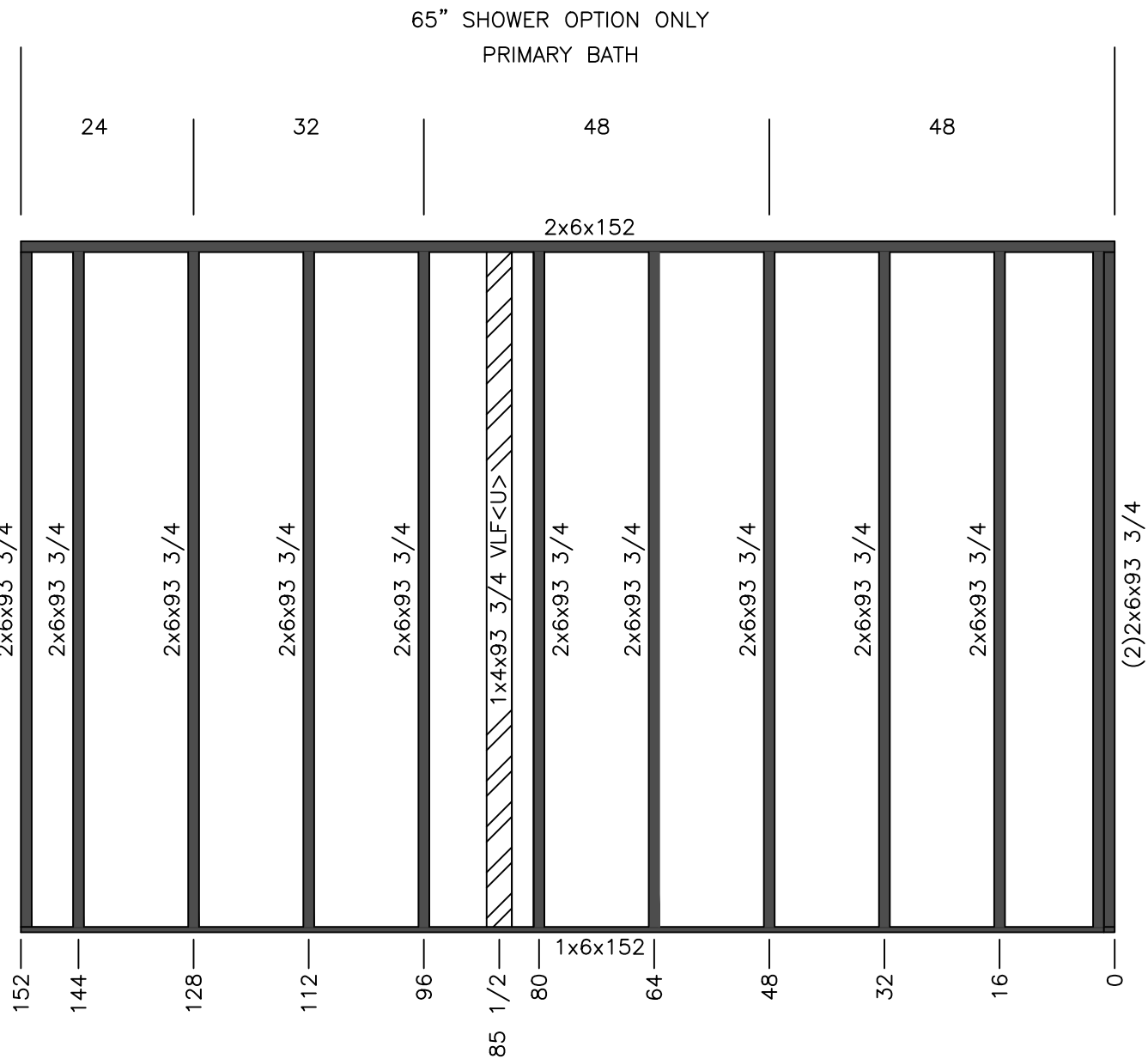
Scale: N.T.S.

Drawing #:

34M406

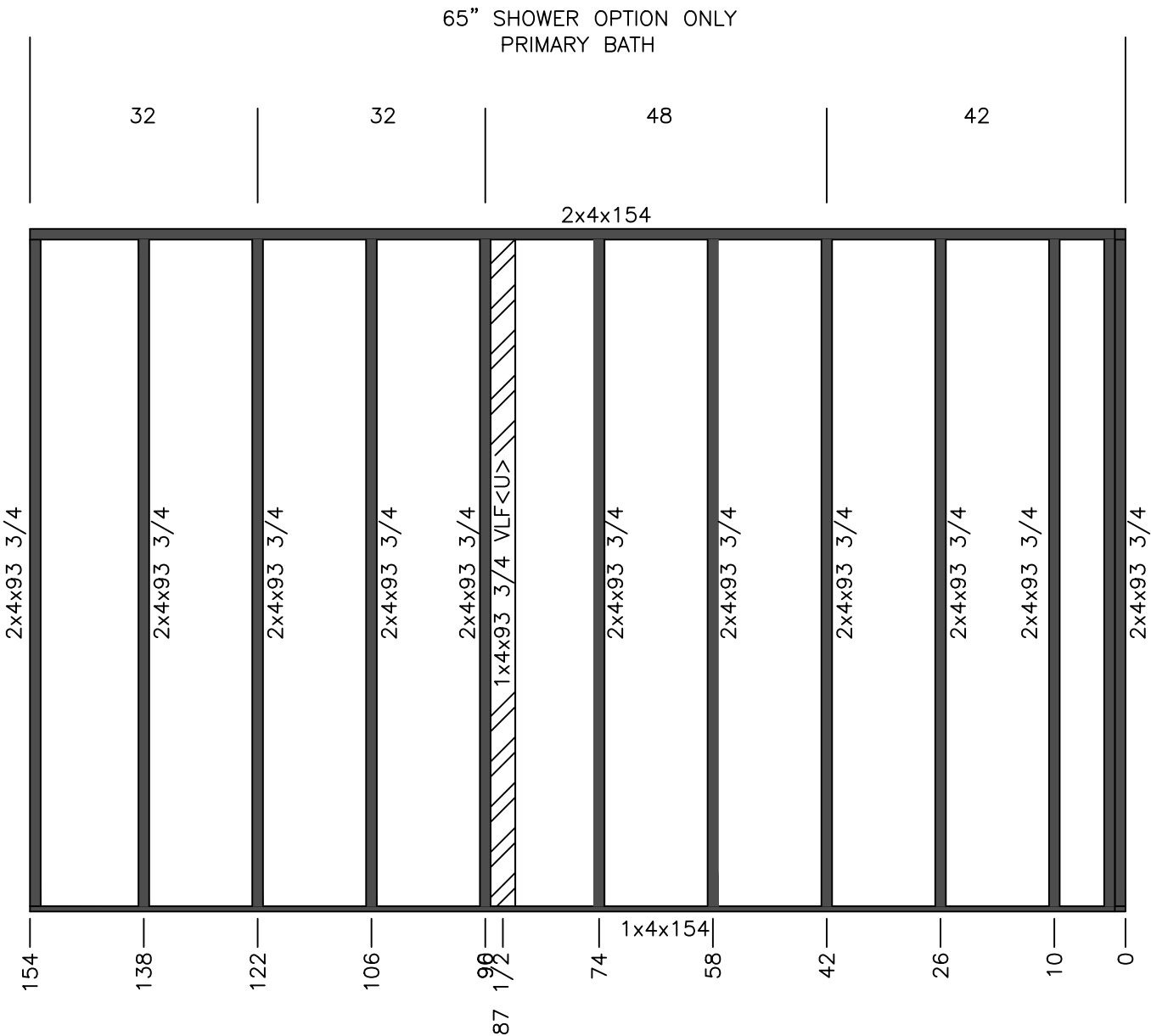
WALL 32A

Rev:



CUTLIST		
QTY	SIZE	TYPE
1	152	1x6
1	152	2x6
12	93 3/4	2x6
1	93 3/4 VLF <U>	1x4

	Model #: MTN28724A		Drawing #: 34M406
	Date: 06/4/2026	Scale: N.T.S.	
Product Designer: B.K.R.	Model: 28' x 72' Mountaineer		
WALL 32B		Rev:	

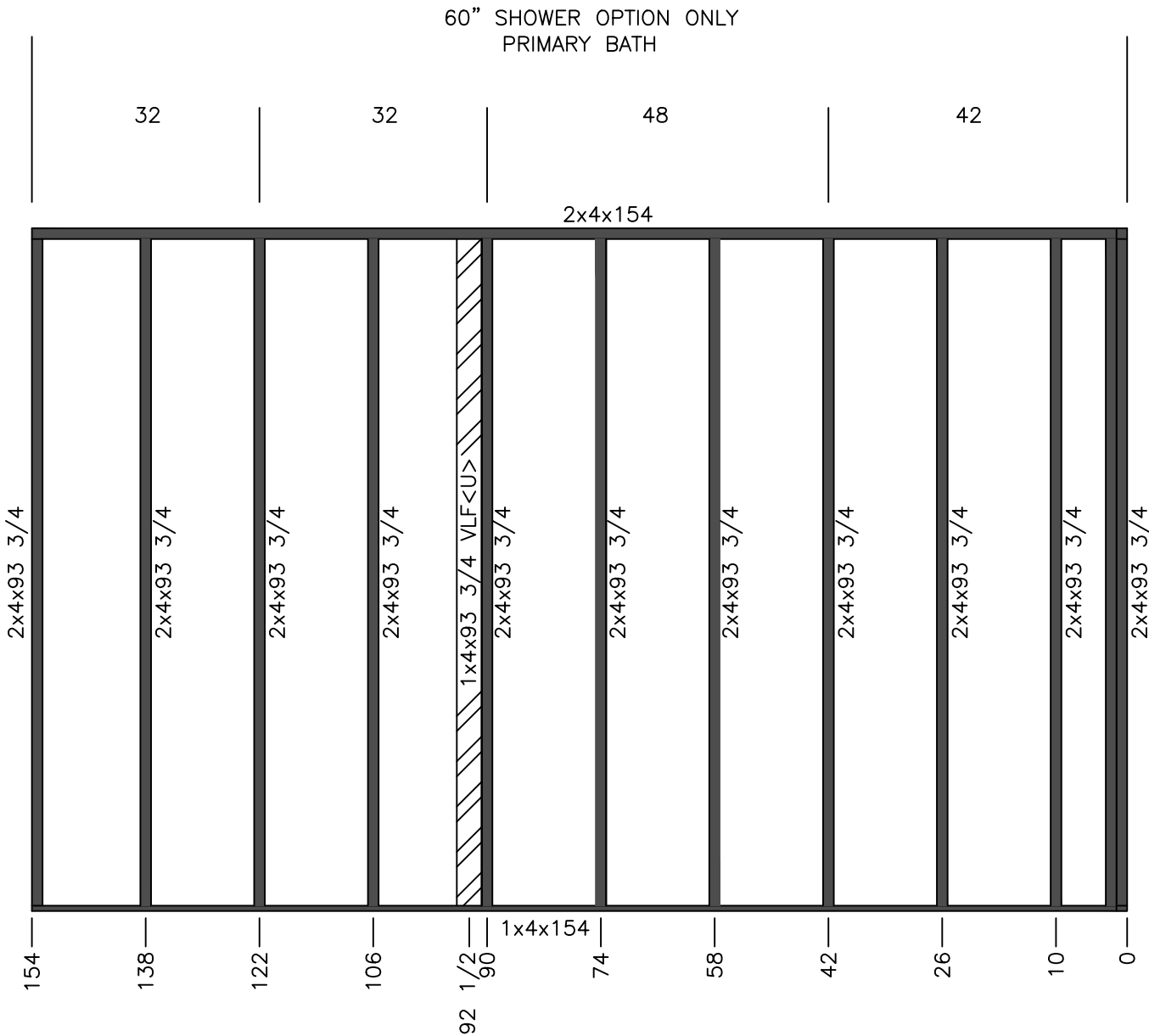


CUTLIST		
QTY	SIZE	TYPE
1	154	1x4
1	154	2x4
12	93 3/4	2x4
1	93 3/4 VLF <U>	1x4

		Model #: MTN28724A		Drawing #: 34M406
		Date: 06/4/2026	Scale: N.T.S.	
Product Designer: B.K.R.		Model: 28' x 72' Mountaineer		
WALL 32B			Rev:	

STUD SPACING 16"

STUD SPACING 16"



CUTLIST		
QTY	SIZE	TYPE
1	154	1x4
1	154	2x4
12	93 3/4	2x4
1	93 3/4 VLF <U>	1x4

	Model #: MTN28724A		Drawing #: 34M406
	Date: 06/4/2026	Scale: N.T.S.	
Product Designer: B.K.R.	Model: 28' x 72' Mountaineer		
WALL 32C		Rev:	