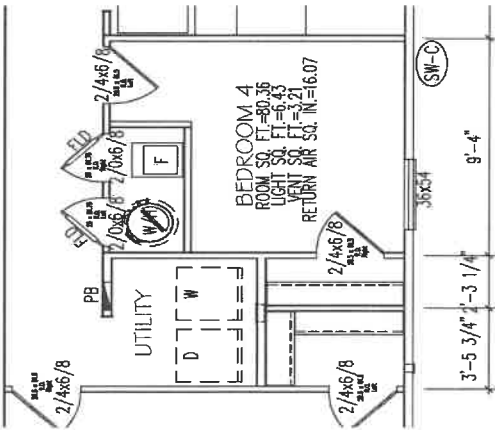


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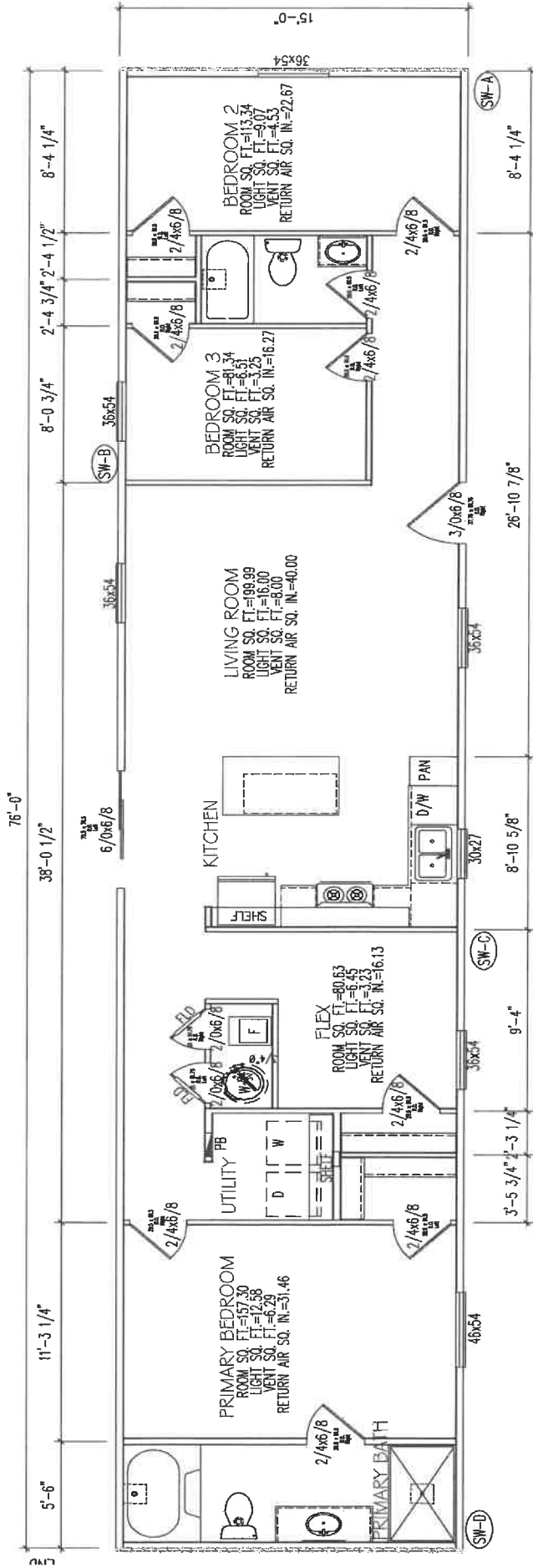
APPROVED BY
NTA INC.
7/29/2025
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Model # TRU-1676-32-1 ASPEN
Box Width = 180" Single wide No Over Box
Box Length = 78ft. 86" 12" MIN BEAM No Overlaid
No Siding No Siding No Siding
No Porches No Porches No Porches
Just Size = 45 sq ft 2x8 Laps 8x6" No Porches

Version R13.20



OPT. BEDROOM 4



GENERAL NOTES:
ALL BEDROOM DOORS LESS THAN 35' TO
EXTERIOR DOOR FOR EGRESS.

MP-16-TRU-1676-32-1.1

CURB

Clayton Built

MODEL NAME
ASPEN
MODEL NO.
TRU-1676-32-1
BOX SIZE
16X76
HIG #
911
1140

HITCH

REVISION DATE
02/28/25

DATE PRINTED
7/25/2025
8:49 AM

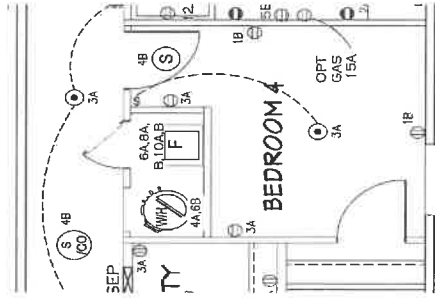
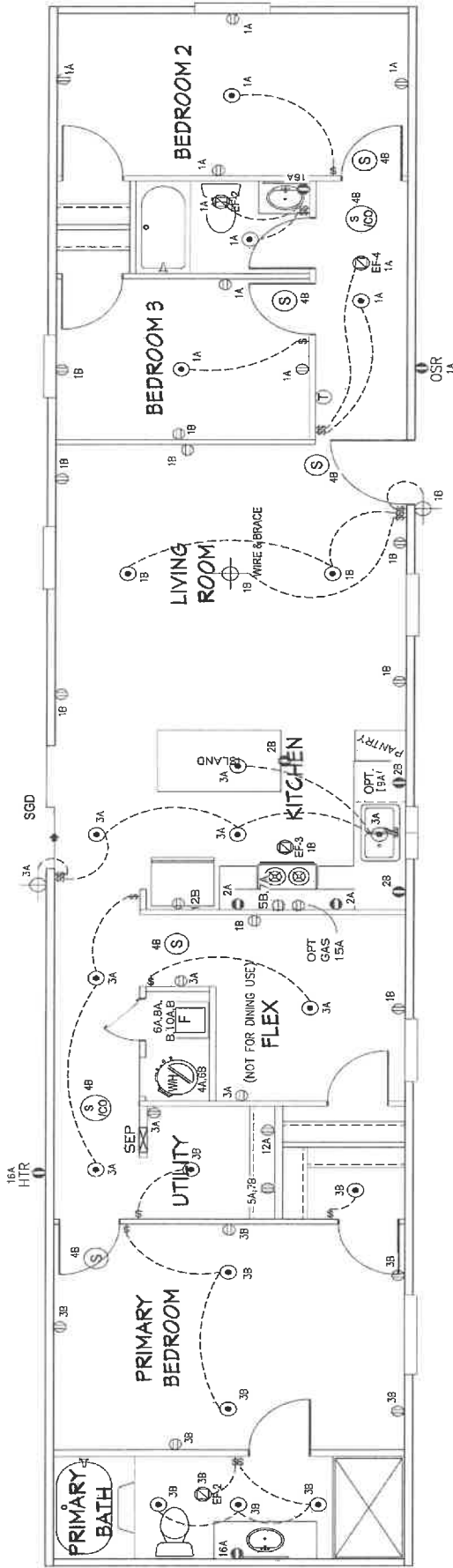
SCALE
3/16"=1'

PLAN NO.

SHEET NO.

SHEET NAME
SUBMITTAL
FLOOR
PLAN

SHEET NO.
FP-1



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

CIRCUIT	CIRCUIT #	WIRE	BREAKER	CIRCUIT	CIRCUIT #	WIRE	BREAKER
LIGHT/RECP	1A, 3A, 13B, 14A	14-2	15-SP	DRYER	5A, 7B	SEE NOTE #8	
LIGHT/RECP	1B, 3B, 14B	14-2	15-SP	WATER HEATER	4A, 6B	SEE NOTE #8	
KITCHEN	2A, 2B	12-2	20-SP	RANGE	5B, 7A	SEE NOTE #8	
WASHER	12A	12-2	20-SP	FURNACE	6A, 8A, B, 10A, B	SEE NOTE #8	
RANG HOOD/ MICROWAVE	15B	SEE NOTE #8	20-SP	OPT DWASH	9A	SEE NOTE #8	
OPT. GAS RANG	15A	SEE NOTE #8	REFER	SMOKE/CO DET.	4B	SEE NOTE #8	
					12B	SEE NOTE #8	

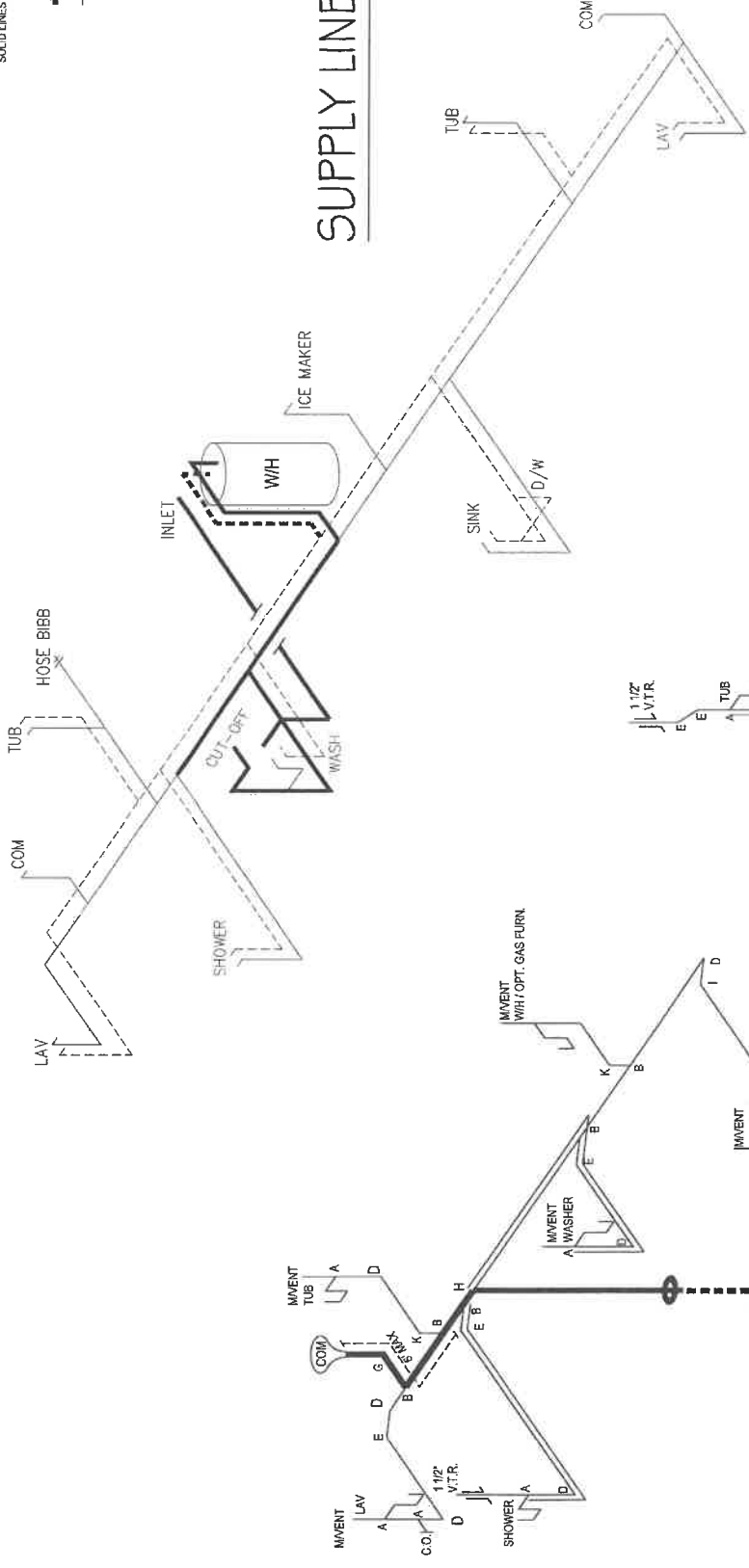
CIRCUIT	CIRCUIT #	WIRE	BREAKER
BATHROOM	16A	12-2	20-SP
OPT S/DISP	9B	SEE NOTE #8	
OPT GRAY WPJAC	11A, B	SEE NOTE #8	
FREEZER	13A	SEE NOTE #8	
OPT ELEC. PREPLACE	16B	SEE NOTE #8	

MP-16.TRU-1676-32-1.2

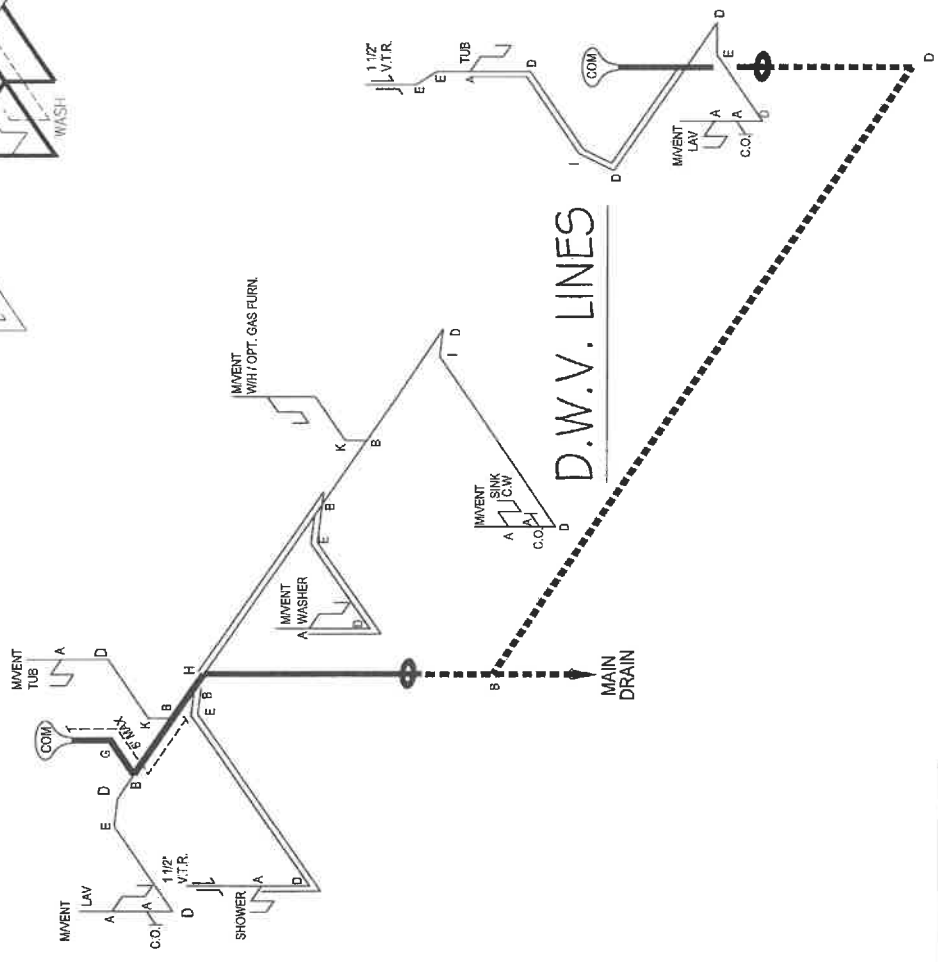
NOTE:
DASHED LINES INDICATE HOT WATER
SOLID LINES INDICATE COLD WATER

— = 3/4"
— = 1/2"

SUPPLY LINES



D.W.V. LINES



LEGEND	
A	SHORT TURN T-Y
B	LONG TURN T-Y
C	1/4 BEND
D	LONG SWEEP 1/4 BEND
E	45 ELL
F	DBL. SANITARY TEE
G	4x3 CLOSET ELL
H	DOUBLE ELL
I	22 1/2° ELL
J	45° Y
K	LONG TURN STREET ELBOW

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

APPROVED BY
NIA INC.
REVISED
9/11/2025
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

MP-16-TRU-1676-32-1.3

Clayton Built

MODEL NAME
Aspen

MODEL NO.
TR116763A

BOX SIZE
16' x 76'

MODEL SQ. FT.
1,140

DATE
9/29/2023

DATE DRAWN
9/29/2023

DATE PRINTED
8/21/2025

DRAWN BY
Jeremy Huittig

SCALE
3/16"=1'

PLAN NO.
TRU-1676-32-1

SHEET NAME
D.W.V. & SUPPLY

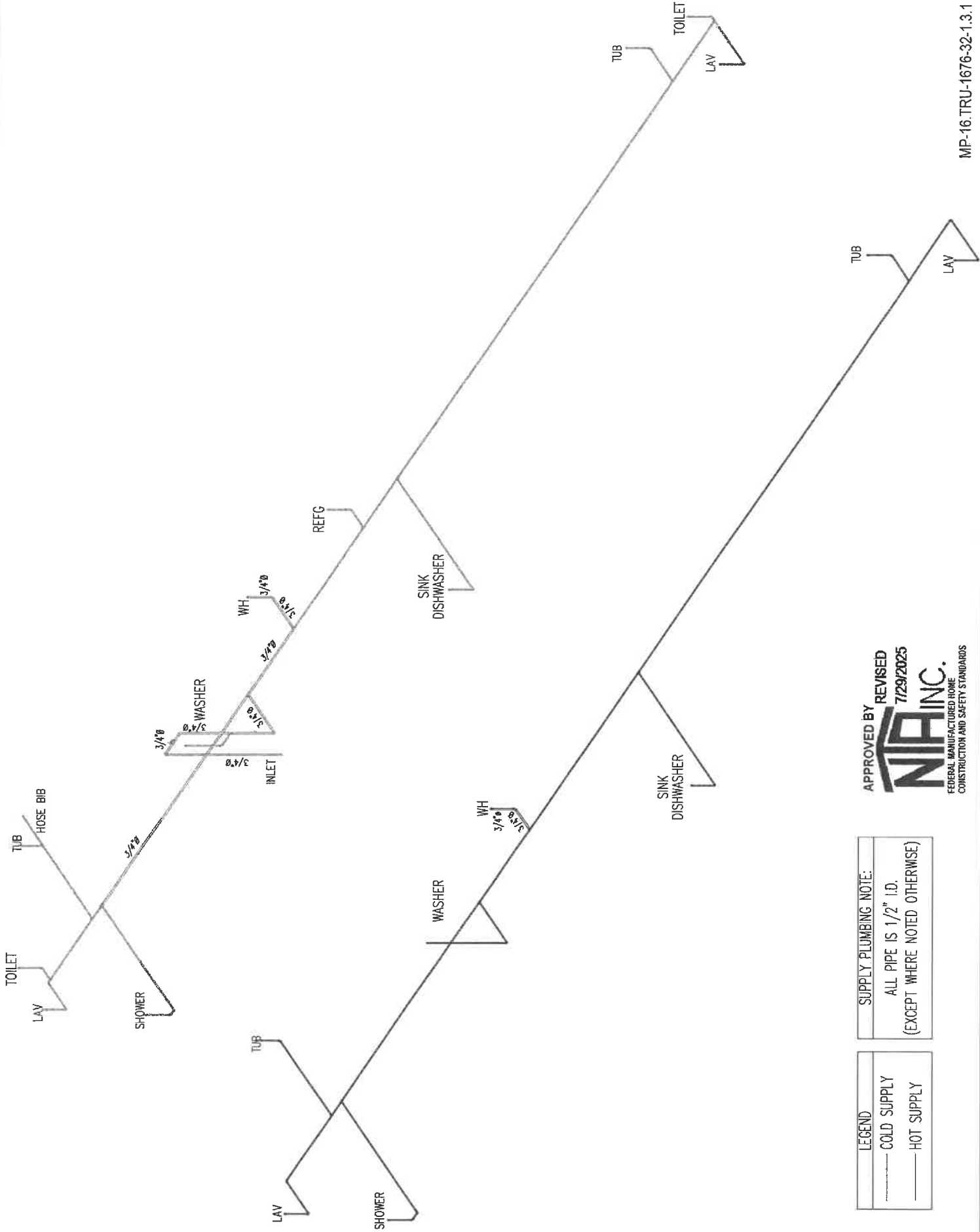
SHEET NO.
PI-1

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MODEL NAME	ASPEN
MODEL NO.	TRU-1676-32-1
BOX SIZE	16x76
MODEL SCL. FT.	1140
REVISION DATE	02/28/25

DATE PRINTED	7/22/2025
SCALE	10:37 AM
PLAN NO.	N.T.S.
SHEET NO.	-
SHEET NAME	SUBMITTAL
SHEET NO.	COLD & HOT
SHEET NO.	WATER
SHEET NO.	SYSTEM
SHEET NO.	PW-1



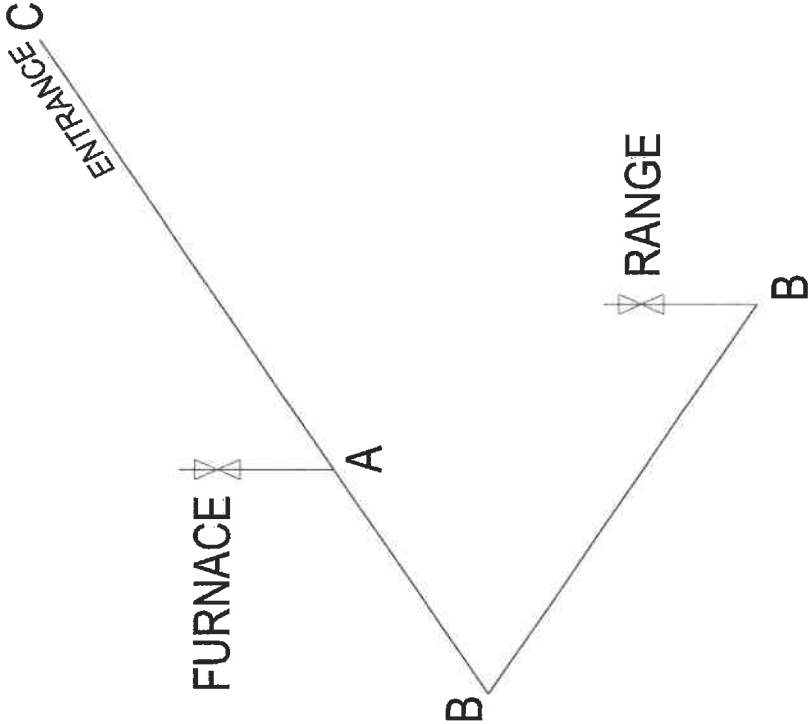
APPROVED BY
NIA INC.
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

LEGEND	SUPPLY PLUMBING NOTE:
— COLD SUPPLY	ALL PIPE IS 1/2" I.D.
— HOT SUPPLY	(EXCEPT WHERE NOTED OTHERWISE)

MP-16 TRU-1676-32-1.3.1

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

MDL = 20'



NOTES:
ALL PIPE IS 3/4" I.D. CAST
(EXCEPT WHERE NOTED OTHERWISE)
MDL=MAX. DETERMINED LENGTH OF PIPE
FITTING MAY BE ADDED OR SUBTRACTED
TO TRAVERSE VARIATIONS IN AXLE
QUANTITY, PLACEMENT, AND FRAME TYPE.
INLET LOCATION MAY VARY TO STAY WITHIN
MAY DETERMINED LENGTH

APPROVED BY

REVISOR
9/11/2025
FEDERAL MANUFACTURING, INC.
CONSTRUCTION AND SAFETY STANDARDS

MP-16.TRU-1676-32-1.4

MODEL NAME Aspen	DATE DRAWN 9/29/2023	DATE PRINTED 8/21/2025	SCALE 3/16"=1'	SHEET NAME GAS	SHEET NO. PI -4
MODEL NO. TRT16763A	DRAWN BY Jeremy Hulting			PLAN NO. TRU-1676-32-1	
BOX SIZE 16' x 76'					
MODEL SQ. FT. 1,140					
REVISION	DATE				

Clayton Built

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Manual S Compliance Report

Entire House

Clayton Homes

Job: TRU-1676-32-1
 Date: Nov 16, 2023
 By: JH
 Plan: TRU-1676-32-1

5000 Clayton Road, Maryville, TN 37804 Web: <https://www.daytonhomes.com/>

Project Information

For: 16 x 76 Sensation, TRU

Web: owntru.com

Cooling Equipment

Design Conditions

Outdoor design DB:	90.4°F	Sensible gain:	11820	Btuh	Entering coil DB:	77.2°F
Outdoor design WB:	73.3°F	Latent gain:	3538	Btuh	Entering coil WB:	64.1°F
Indoor design DB:	75.0°F	Total gain:	15358	Btuh		
Indoor RH:	50%	Estimated airflow:	580	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Smart Comfort	Model:	R4H5S18*K*AAA*+FEVA0024**+NAVA43601CK		
Actual airflow:	580	cfm			
Sensible capacity:	13142	Btuh	111%	of load	
Latent capacity:	3586	Btuh	101%	of load	
Total capacity:	16728	Btuh	109%	of load	SHR: 79%

Heating Equipment

Design Conditions

Outdoor design DB:	21.0°F	Heat loss:	19402	Btuh	Entering coil DB:	63.1°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Smart Comfort	Model:	R4H5S18*K*AAA*+FEVA0024**+NAVA43601CK		
Actual airflow:	580	cfm			
Output capacity:	16800	Btuh	87%	of load	Capacity balance: 30 °F
Supplemental heat required:	2602	Btuh			Economic balance: -99 °F

Backup equipment type:	Elec strip				
Manufacturer:	Smart Comfort	Model:	FEVA002410		
Actual airflow:	580	cfm			
Output capacity:	10.0	kW	176%	of load	Temp. rise: 55 °F

Meets all requirements of ACCA Manual S.



Right-Suite® Universal 2024 24.0.04 RSU55718

MP-16.TRU-1676-32-1.5

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Page 1

...htSoft\Project\TRU\TRU-1676-32-1-FDJ - ZERH.rup Calc = MJ8 Front Door faces: N



Project Summary

Entire House

Clayton Homes

Job: TRU-1676-32-1
Date: Nov 16, 2023
By: JH
Plan: TRU-1676-32-1

5000 Clayton Road, Maryville, TN 37804 Web: <https://www.daytonhomes.com/>

Project Information

For: 16 x 76 Sensation, TRU

Notes: Web: owntru.com
Duct Capacity: 19,333 Btuh's



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 15238 Btuh
Ducts 0 Btuh
Central vent (80 cfm) 4164 Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 19402 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft²)	1140	1140
Volume (ft³)	9120	9120
Air changes/hour	0.45	0.23
Equip. AVF (cfm)	68	35

Heating Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410A HP
Model R4H5S18*K*AAA*
AHRI ref 210537859

Efficiency 7.5 HSPF2
Heating input
Heating output 16800 Btuh @ 47°F
Temperature rise 27 °F
Actual air flow 580 cfm
Air flow factor 0.038 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = 30 °F

Backup: Smart Comfort FEVA002410
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 10512 Btuh
Ducts 0 Btuh
Central vent (80 cfm) 1309 Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 0.95
Equipment sensible load 11277 Btuh

Latent Cooling Equipment Load Sizing

Structure 1772 Btuh
Ducts 0 Btuh
Central vent (80 cfm) 1766 Btuh
Outside air
Equipment latent load 3538 Btuh
Equipment Total Load (Sen+Lat) 14815 Btuh
Req. total capacity at 0.70 SHR 1.3 ton

Cooling Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410A HP
Cond R4H5S18*K*AAA*
Coil FEVA0024**+NAVA43601CK
AHRI ref 210537859
Efficiency 12.0 EER2, 15 SEER2
Sensible cooling 12180 Btuh
Latent cooling 5220 Btuh
Total cooling 17400 Btuh
Actual air flow 580 cfm
Air flow factor 0.055 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.



Right-Suite© Universal 2024 24.0.04 RSU55718
...htSoft\Project\TRU\TRU-1676-32-1-FDJ - ZERH.rup Calc = MJ8 Front Door faces: N

MP-16.TRU-1676-32-1.5.1

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Page 1

CLAYTON HOME BUILDING GROUP

ASPEN

Model Number	TRT16763A	Drawing Number	TRU-1676-32-1	Version 24
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BOX SIZE: 15 ft. x 76 ft.

AVG. SIDEWALL HEIGHT = 8 FEET

PERCENTAGE OF CEILING THAT IS VAULTED = 65.8%

IN-FLOOR DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	R-11 OR / R-11 FW / R-11 BIB	R-13	R-33
DAPIA PAGE	THP-338	THP-515	THP-2022
U VALUE (BTUH/SQ.FT.-F)	0.0443	0.0853	0.0322

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Area U Value UA

Doors:

Front	20.30	0.189	3.84
Rear	0.00	0.360	0.00
SGD	38.50	0.300	11.55
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	93.00	0.300	27.90
Option	0.00	0.300	0.00
Net: Floor	1140.00	0.044	50.50
Wall	1304.20	0.085	111.25
Ceiling	1140.00	0.0322	36.71
Ext. Duct	0.00	0.000	0.00
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

Window Glass Area:

Net:

Th. Zone 1:

Th. Zone 2:

Th. Zone 3:

Overhead TZ 1:

Overhead TZ 2:

Overhead TZ 3:

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
15	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0



Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	297.2
Th. Zone 2	105.8
Th. Zone 3	0.0

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
1	11	241.74	0.065	OK	369.10
2	0	241.74	0.065	OK	369.10
3	-14	241.74	0.065	NG	369.10

Design Temperatures	
Furnace Heating Temp (F)	Economy Outdoor Temp (F)
-22	5
-41	-8
-69	-27
-38	-6
-93	-44
-147	-82

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