

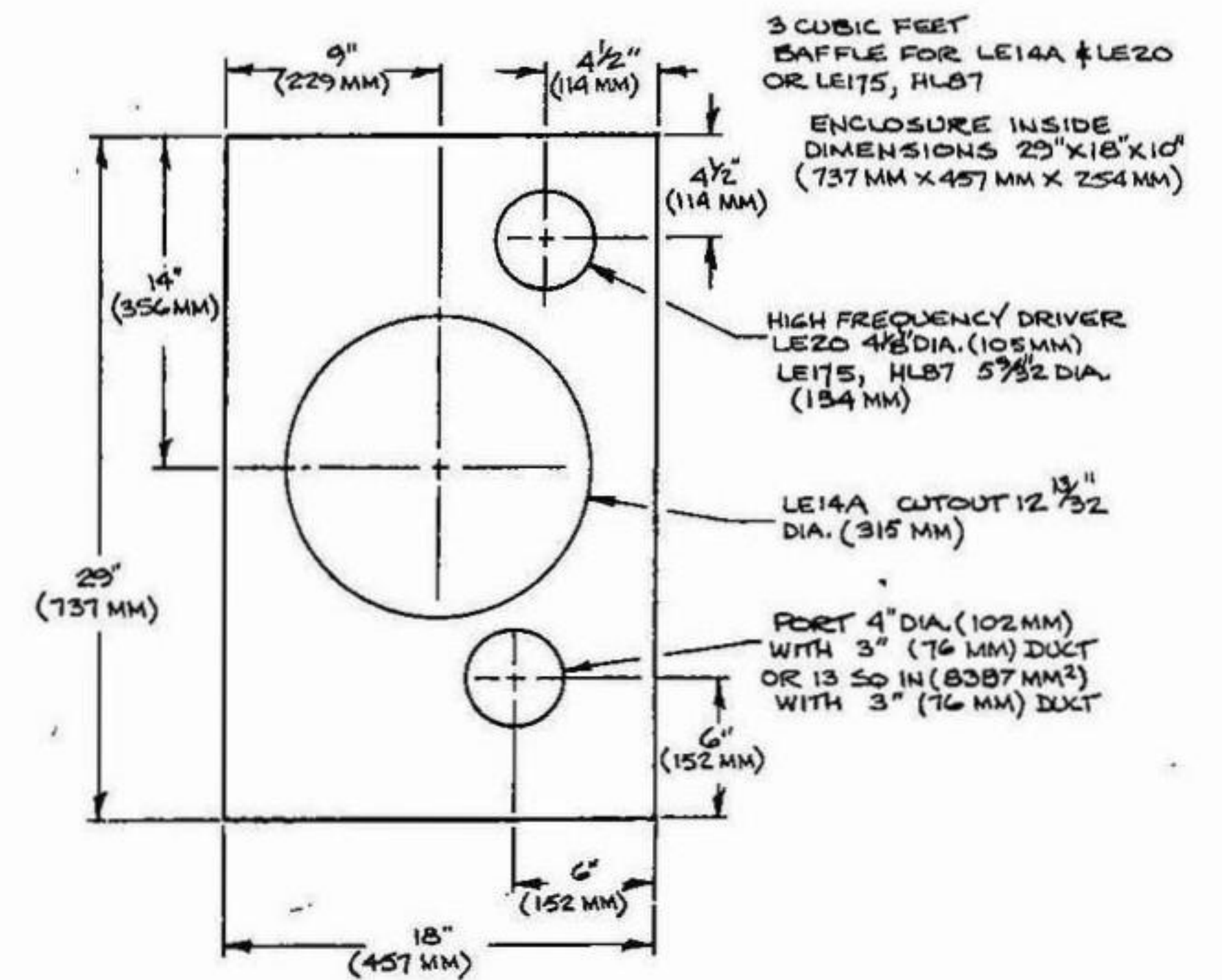
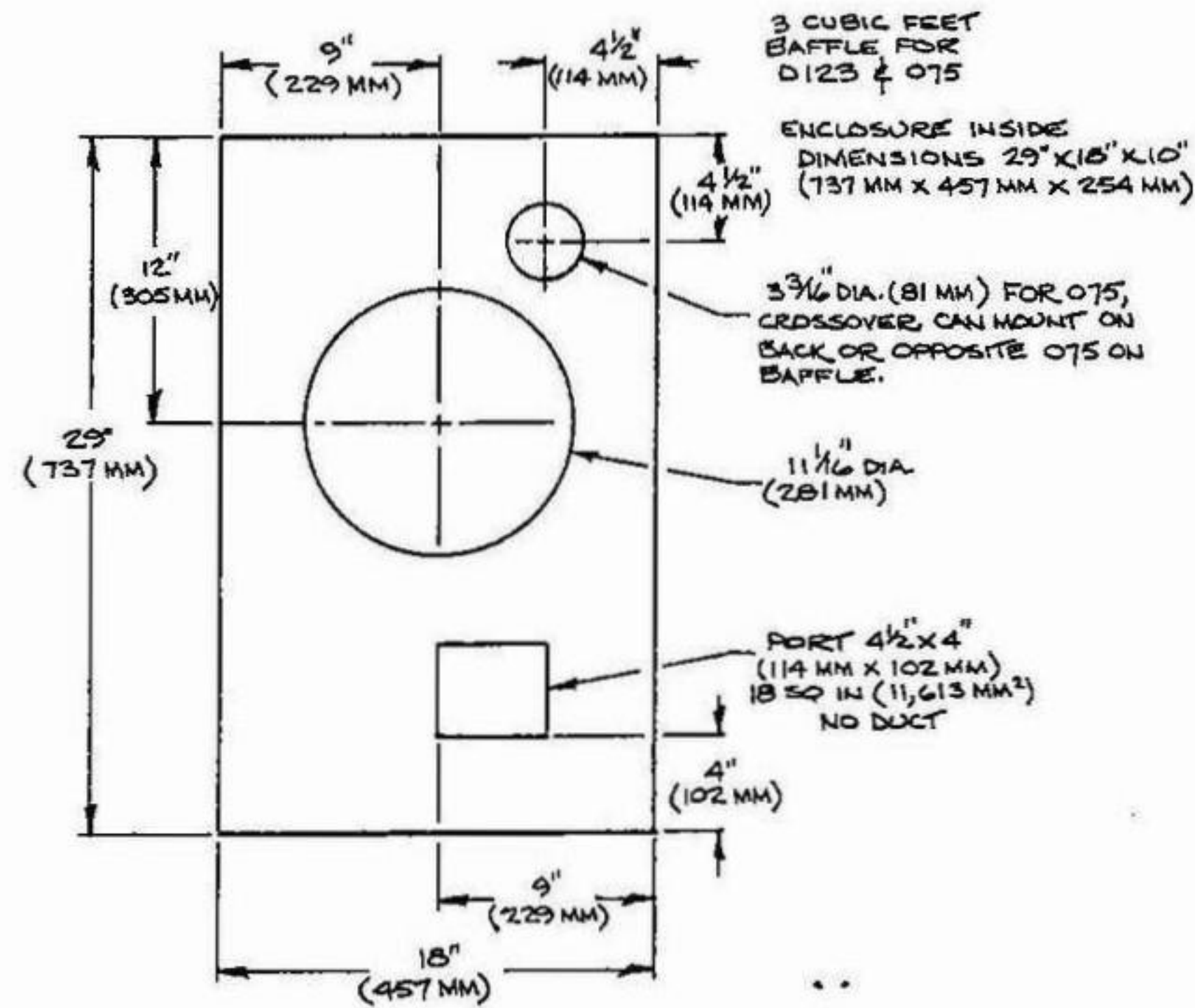
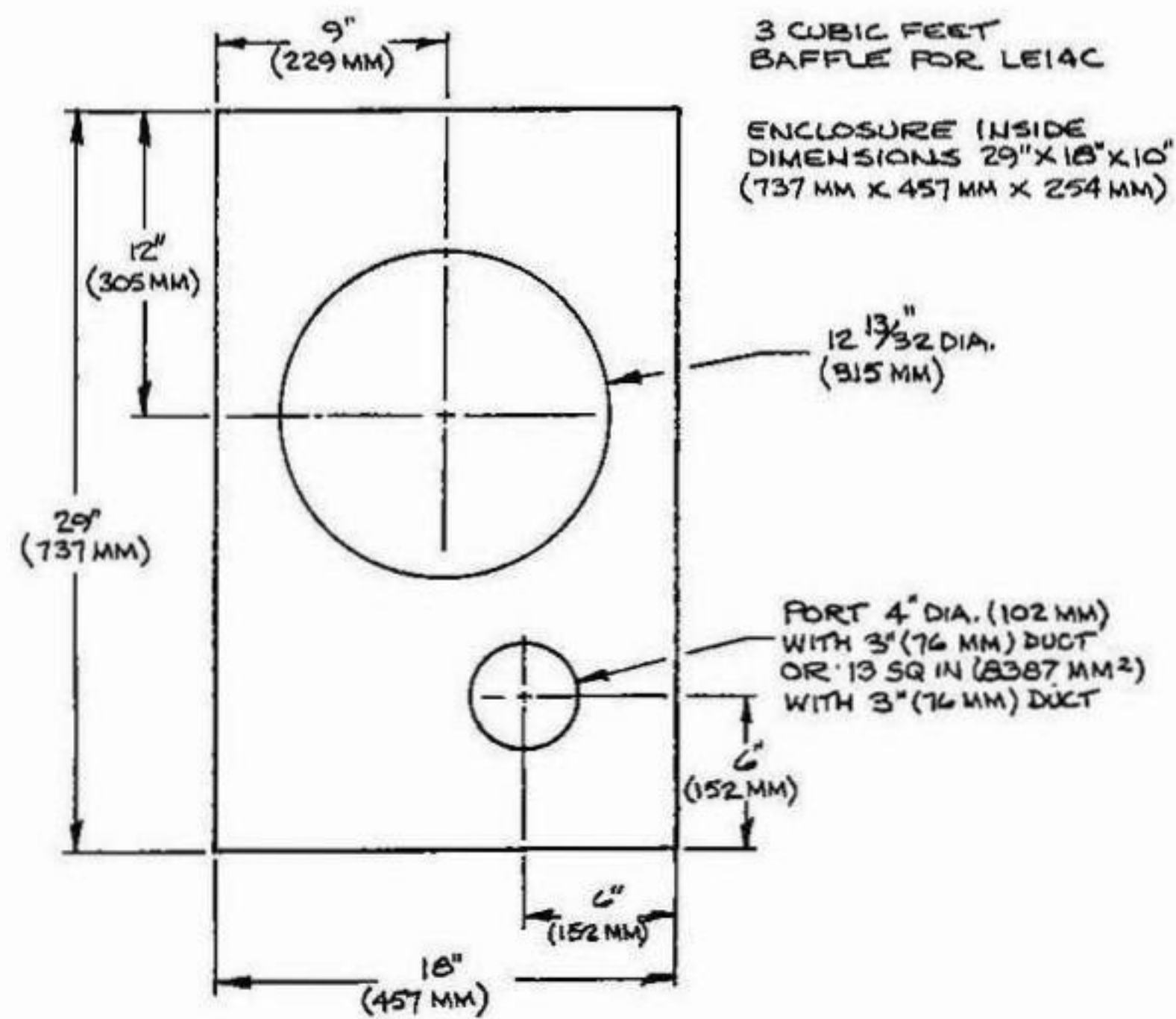
JBL

JAMES B. LANSING, INC.
Northridge, California 91329

TITLE: 3 CUBIC FEET, BAFFLE BOARDS FOR HOME HIGH FIDELITY LOUDSPEAKER SYSTEMS

SHEET 1 OF 2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND MILLIMETERS



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Northridge, California 91329

TITLE: 3 CUBIC FEET, BAFFLE BOARDS FOR
HOME HIGH FIDELITY LOUDSPEAKER SYSTEMS

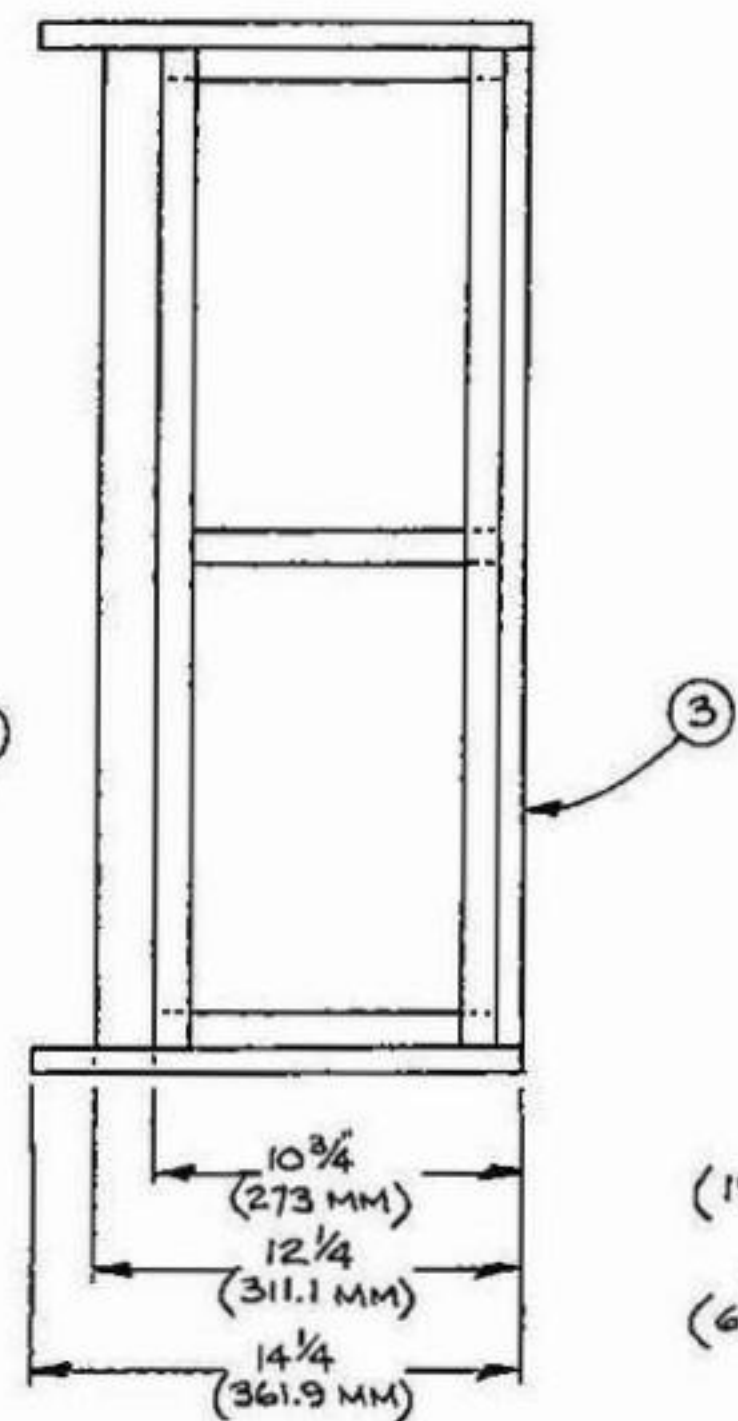
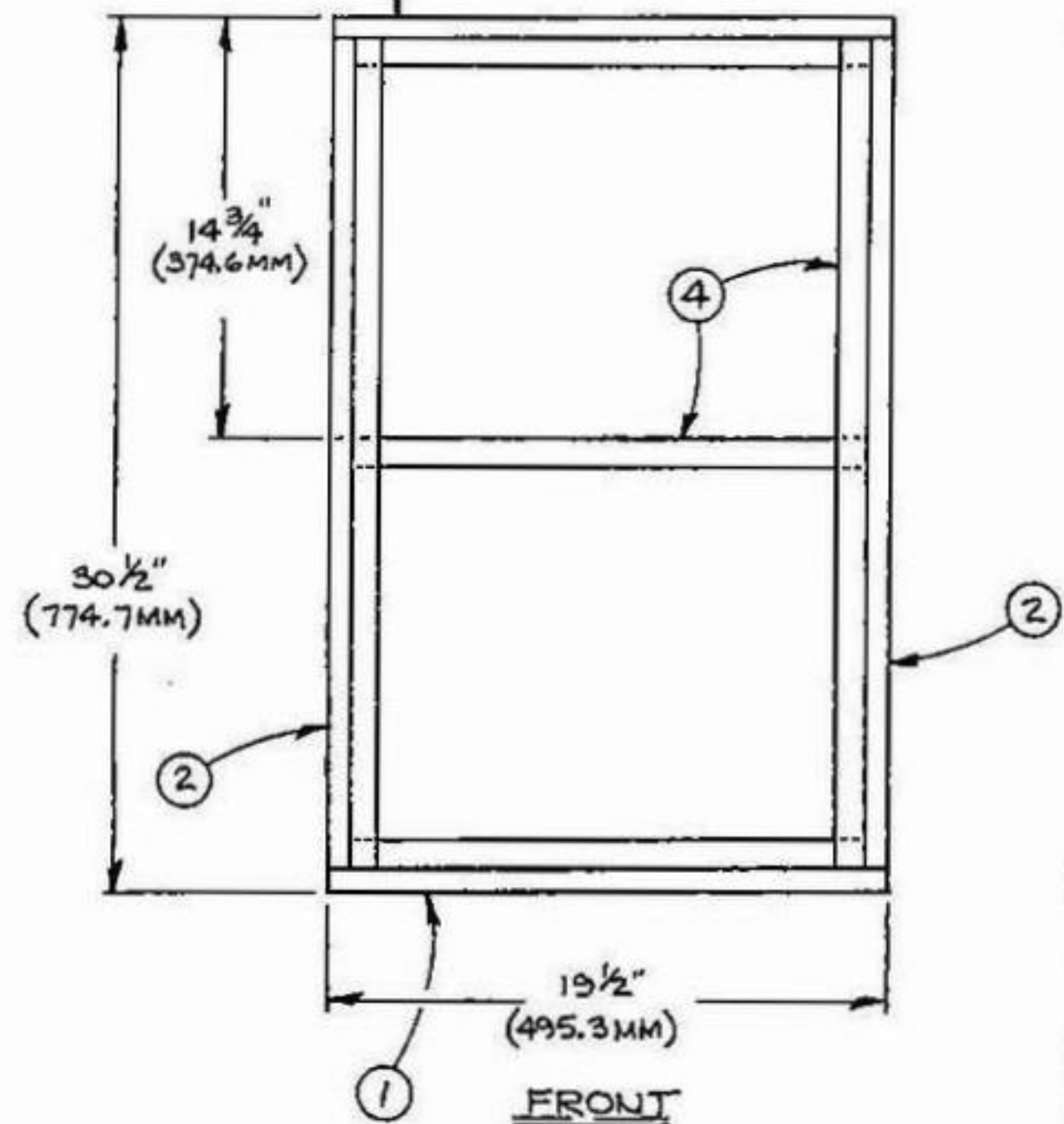
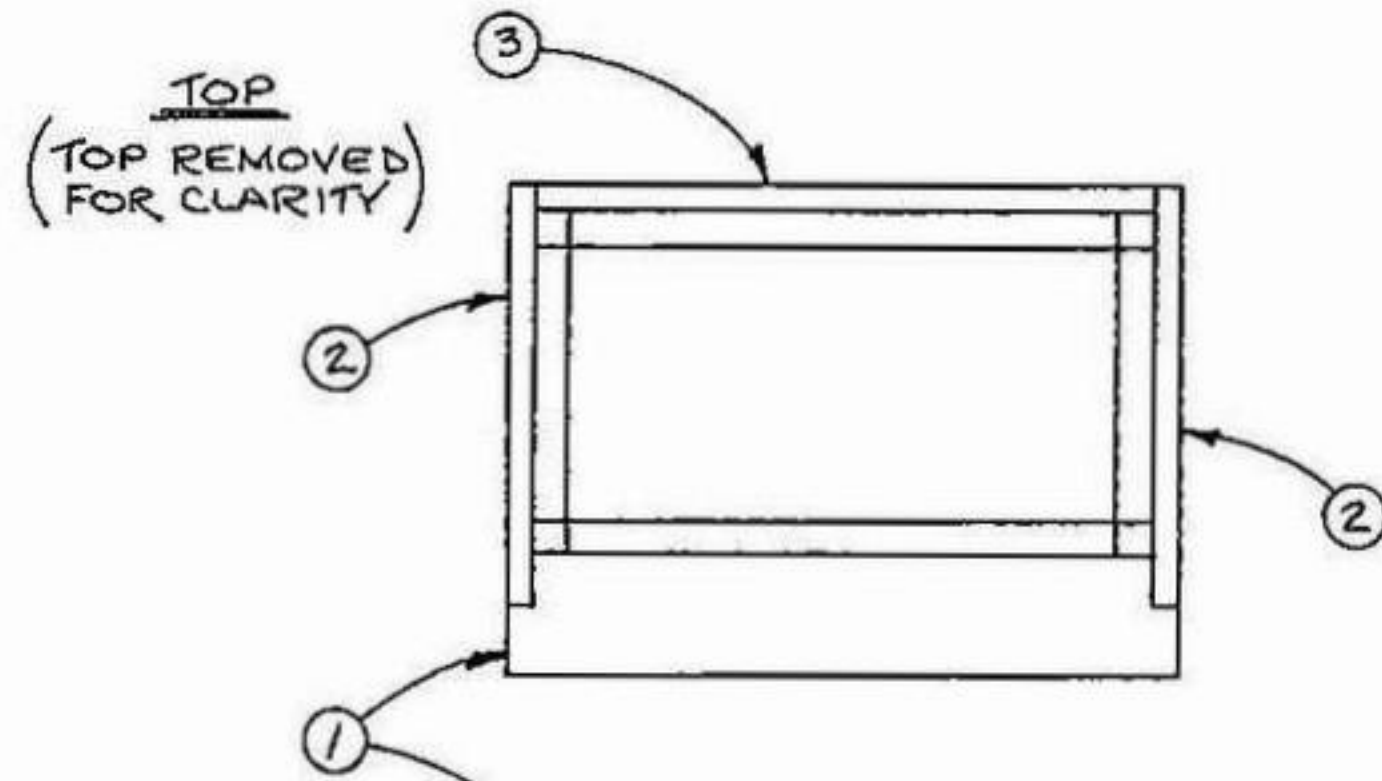
SHEET 2 OF 2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND MILLIMETERS

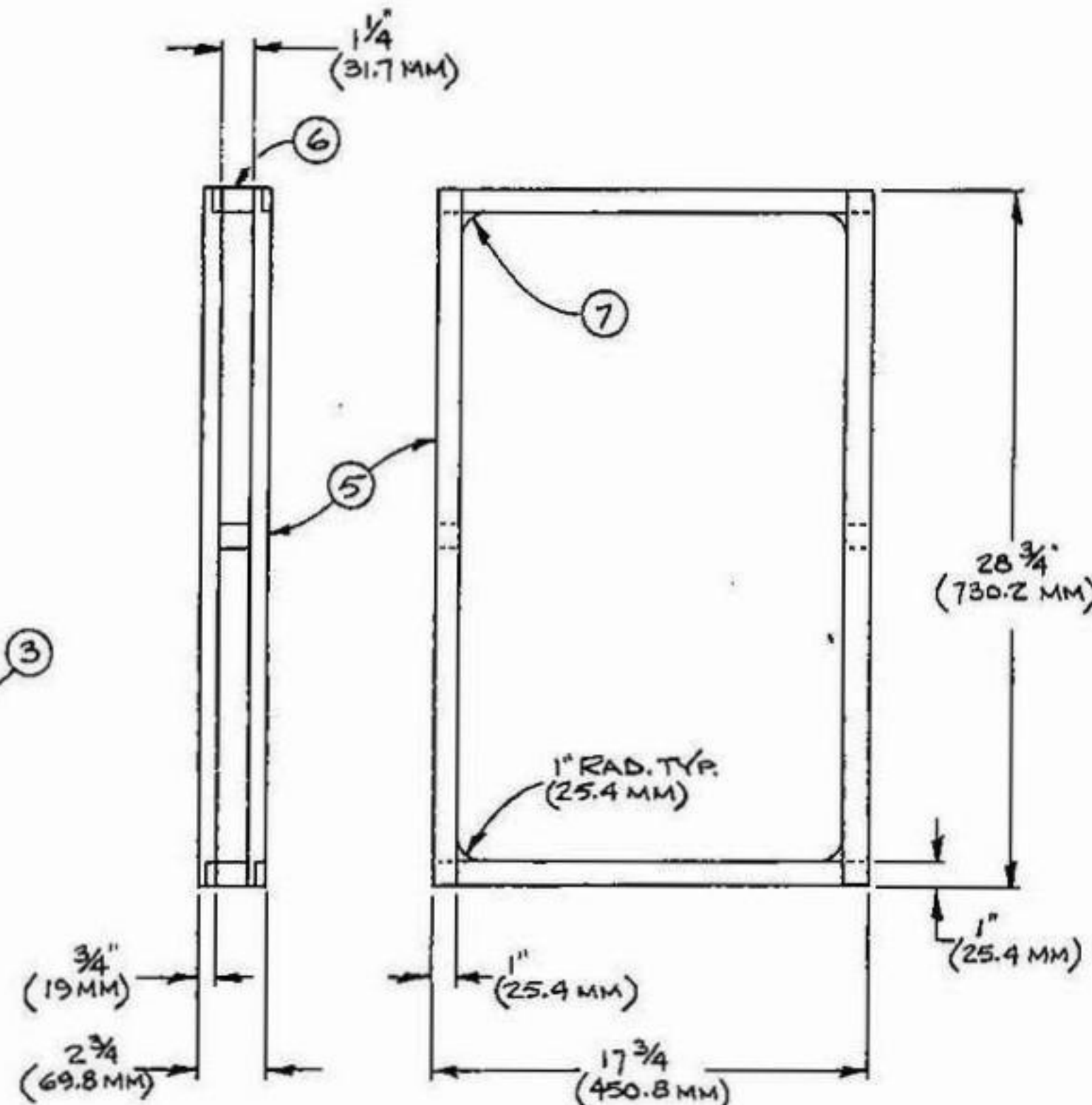
NOTES:-

- ALL PARTS SHOULD BE GLUED AND SCREWED. SCREWS SHOULD BE APPROX. EVERY 5 INGS.
- A SOUND ABSORBING MATERIAL, SUCH AS FIBERGLASS SHOULD BE GLUED OR STAPLED SO THAT IT COVERS THE INSIDE OF THE ENCLOSURE. THE MATERIAL SHOULD BE APPROX. 1" THICK AND SHOULD NOT BLOCK ANY PORT OPENINGS.
- BAFFLE WILL INSET IN FRONT. GLUE AND SCREW IN PLACE.
- ALL ENCLOSURE PARTS ARE CUT FROM $\frac{3}{4}$ " (19.0MM) VOID-FREE PLYWOOD, OR HIGH DENSITY PARTICLE BOARD (CHIPBOARD).

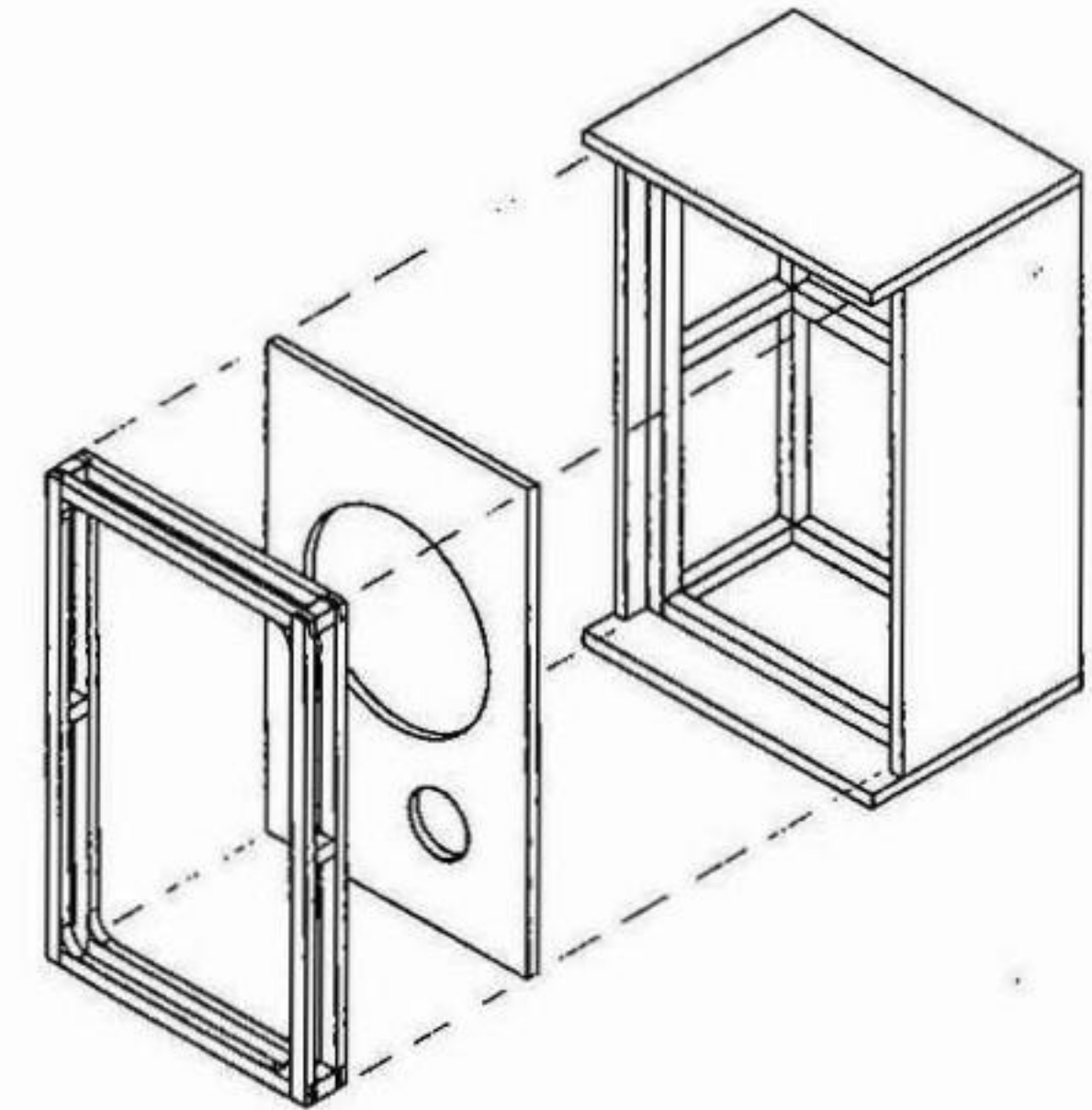
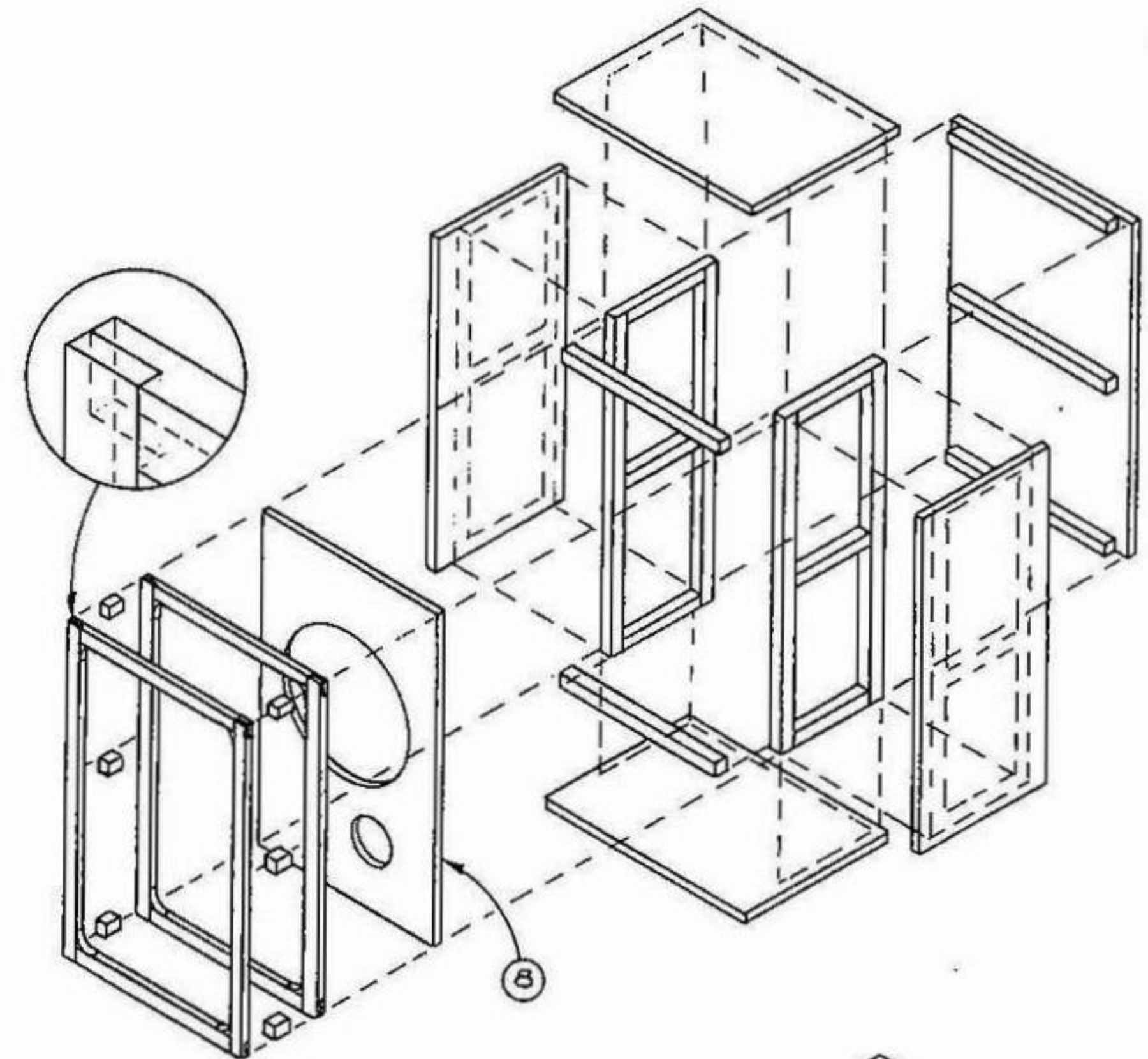
ITEM	SIZE
① TOP & BOTTOM	$19\frac{1}{2} \times 14\frac{1}{4}$ (495.3 x 361.9 MM)
② SIDES	$29 \times 12\frac{1}{4}$ (736.6 x 311.1 MM)
③ BACK	29×18 (736.6 x 457.2 MM)
④ CLEATS	1×1 " NET (25.4 x 25.4 MM) PINE THROUGHOUT
⑤ GRILLE FRAME	$\frac{3}{4} \times 1$ " (19 x 25.4 MM) PINE
⑥ GRILLE SPACERS	$1 \times 1\frac{1}{4}$ (25.4 x 31.7 MM) PINE
⑦ GUSSETS	$\frac{3}{4} \times 1 \times 1$ " (19 x 25.4 x 25.4 MM) PINE
⑧ BAFFLE BOARD	$\frac{3}{4} \times 18 \times 29$ (19 x 457.2 x 736.6 MM)



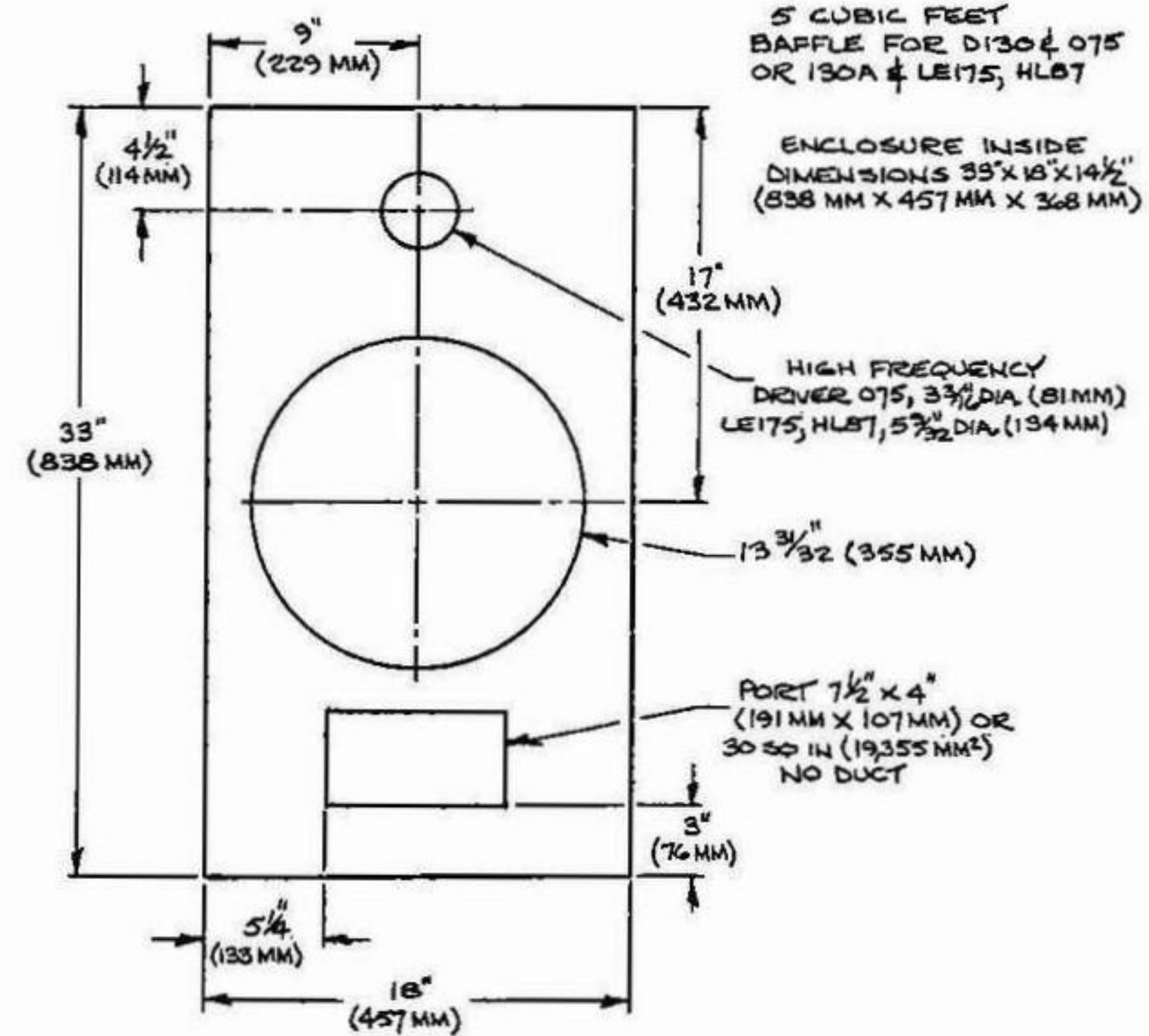
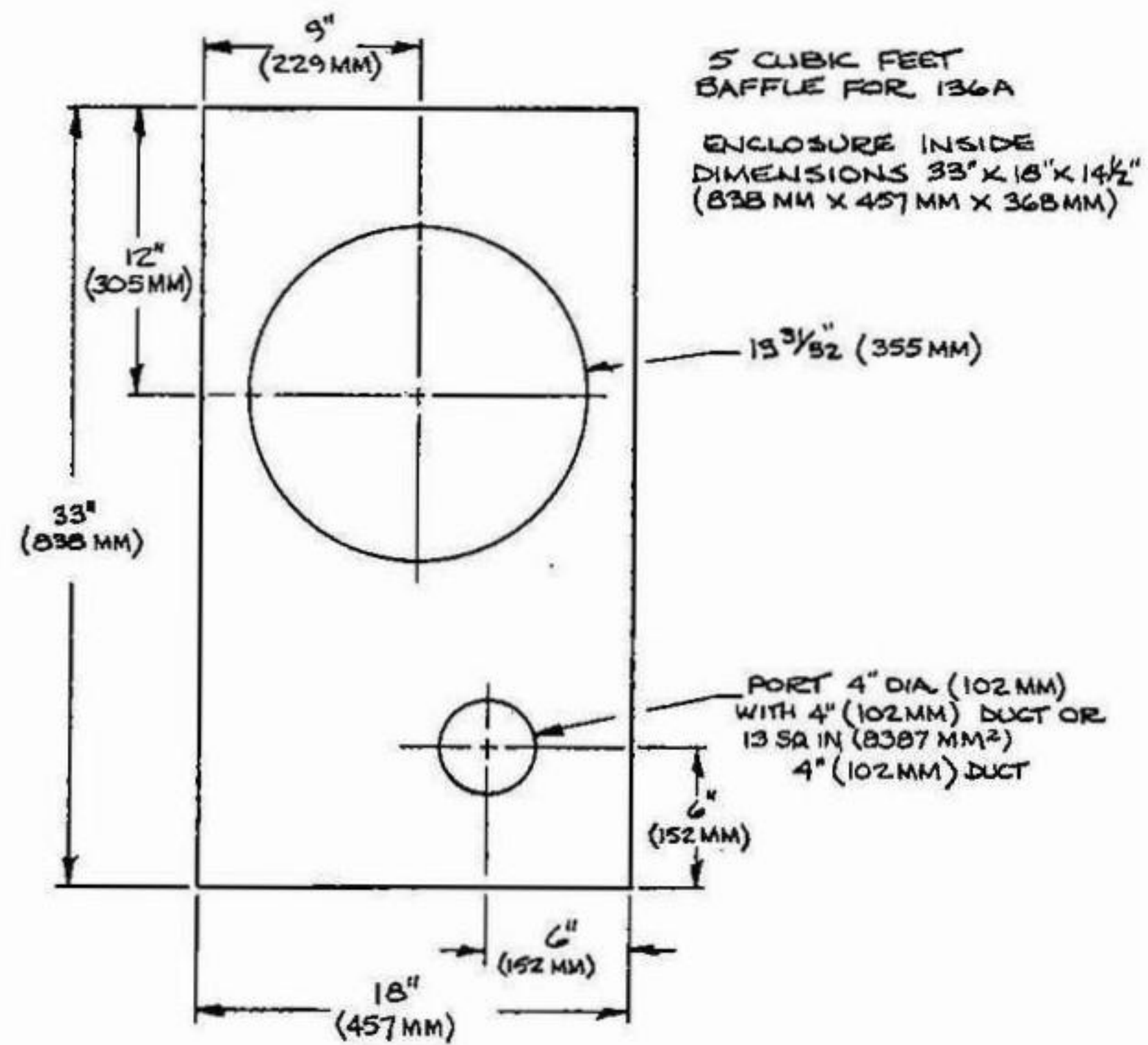
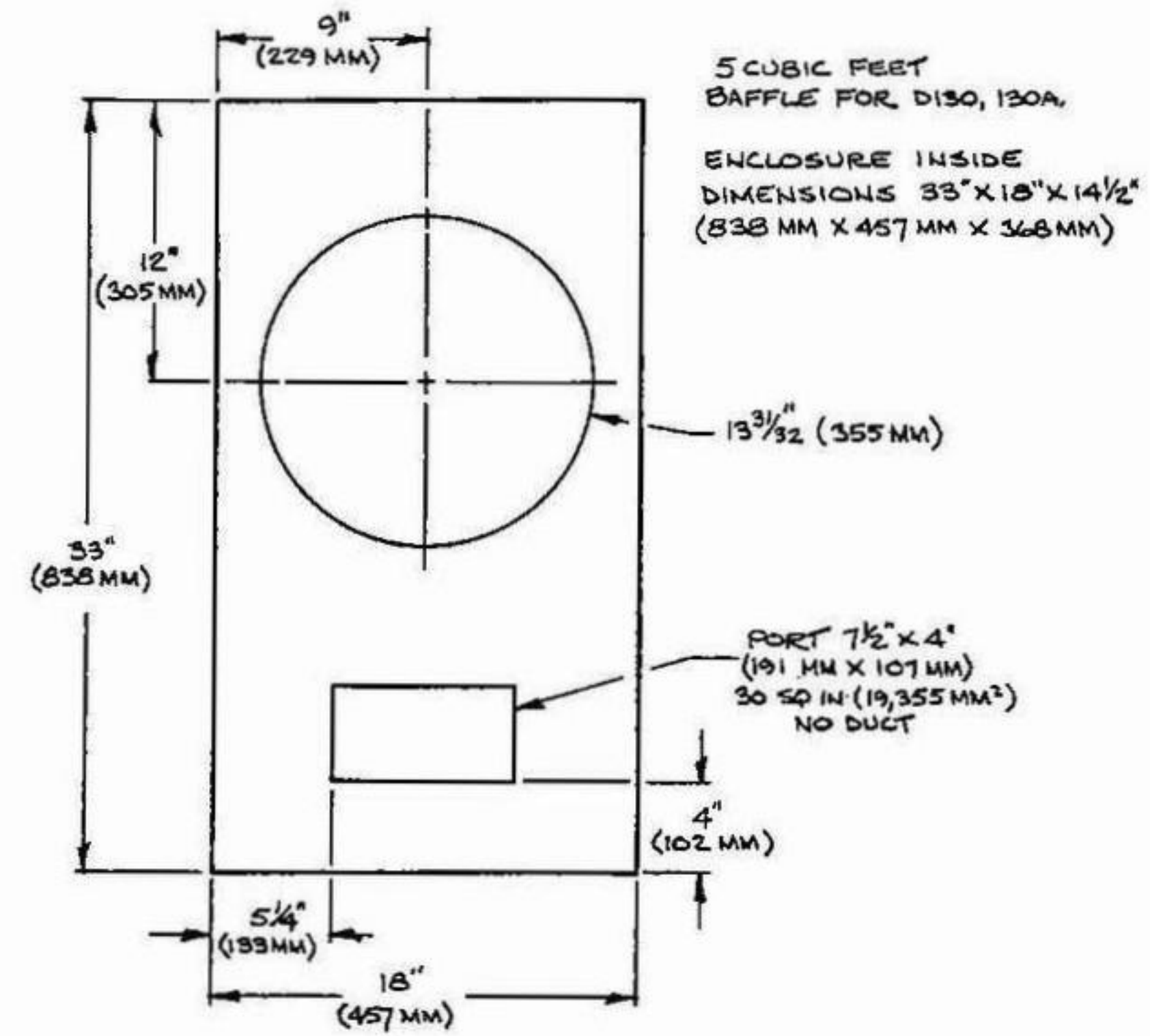
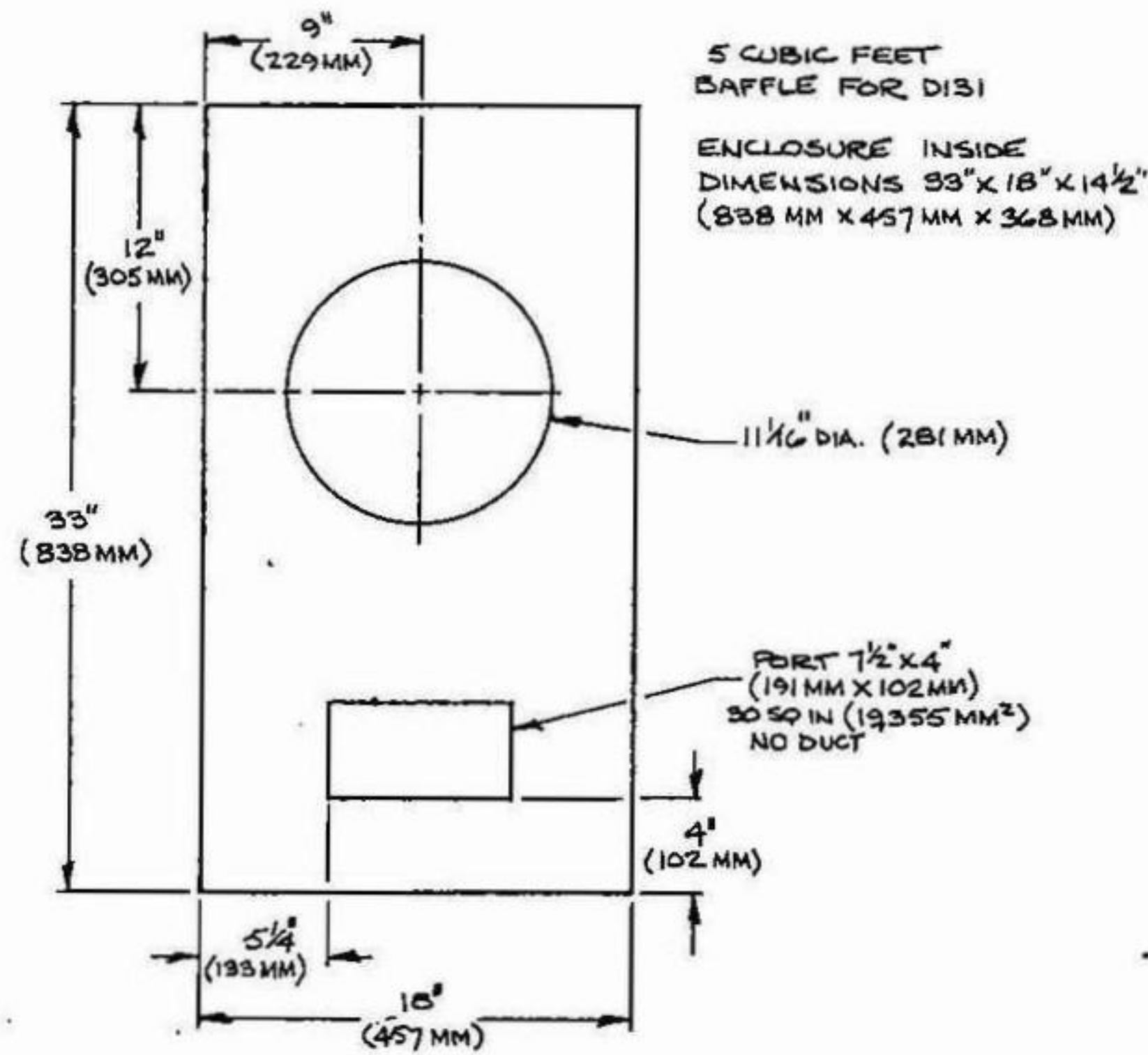
SIDE
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GRILLE FRAME ASSY.



DRAWN:	<i>DG</i>	JBL JAMES B. LANSING SOUND, INC. Los Angeles, California 90039 TITLE: 3 CUBIC FEET, ENCLOSURE FOR HOME HIGH FIDELITY LOUDSPEAKER SYSTEMS SHEET 1 OF 1 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND MILLIMETERS
CHECK:	<i>SLH</i>	
DESIGN:	<i>desj</i>	
ENGINEER:	<i>SLH</i>	
APPROVED:	<i>F</i>	



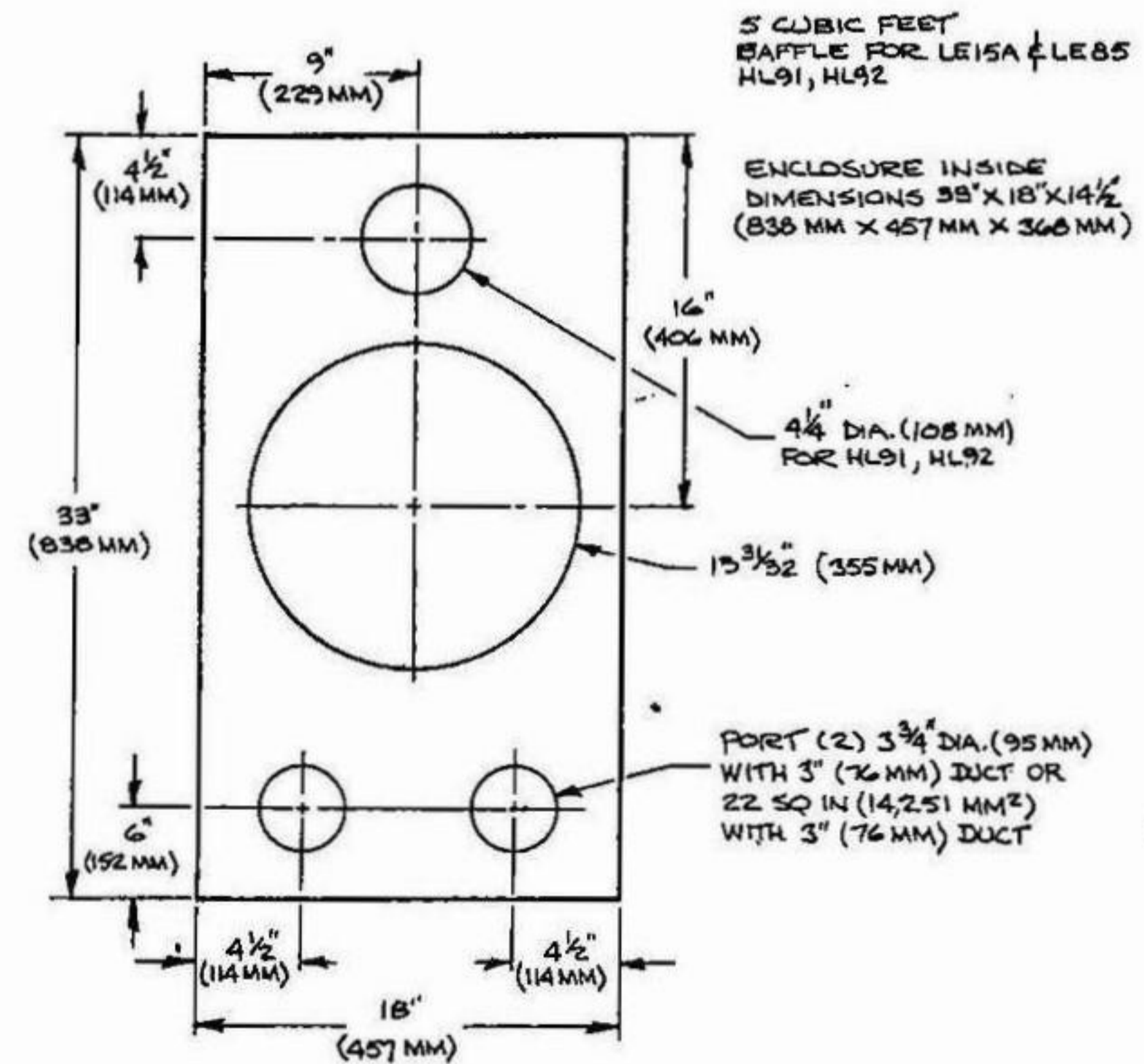
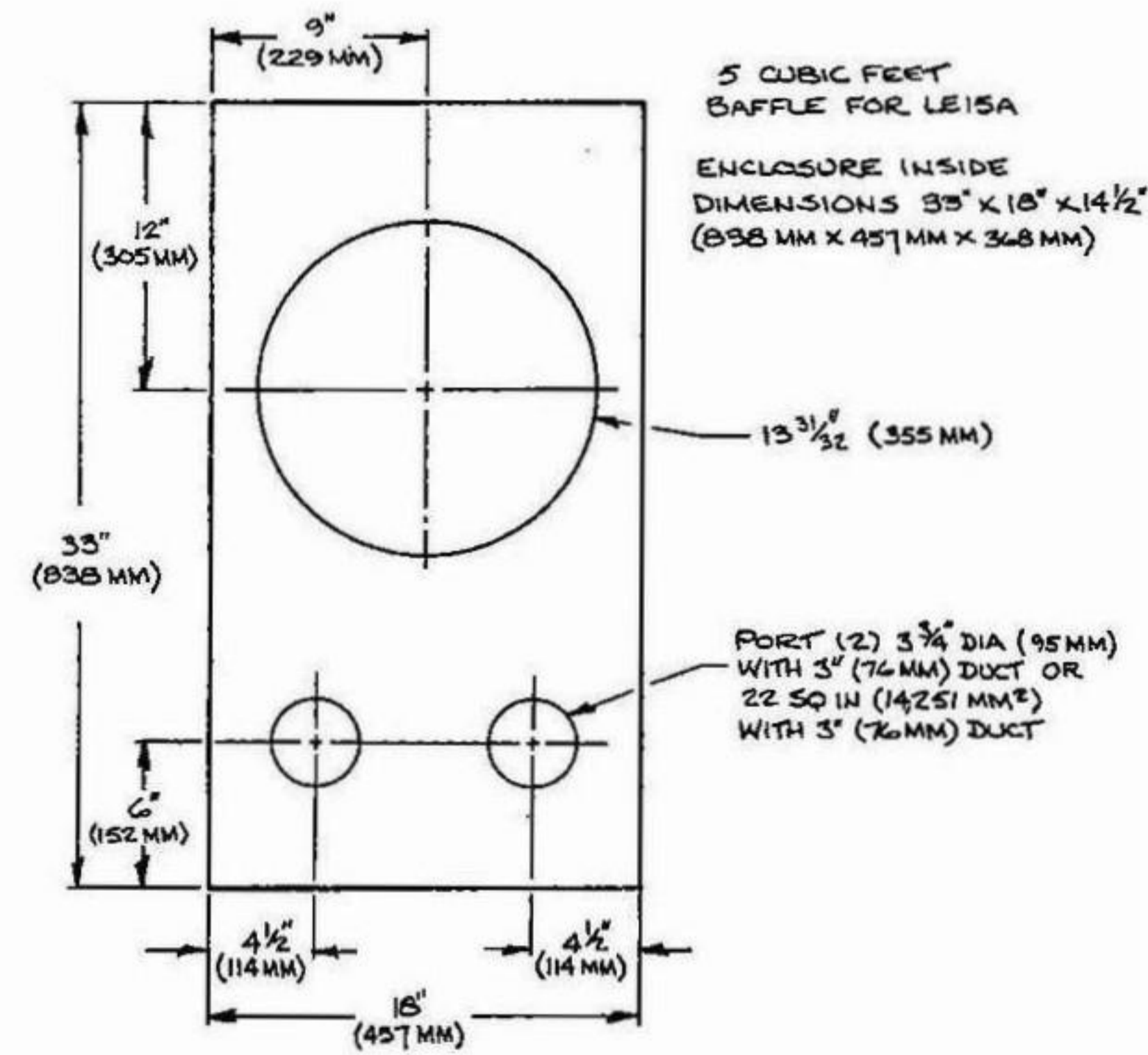
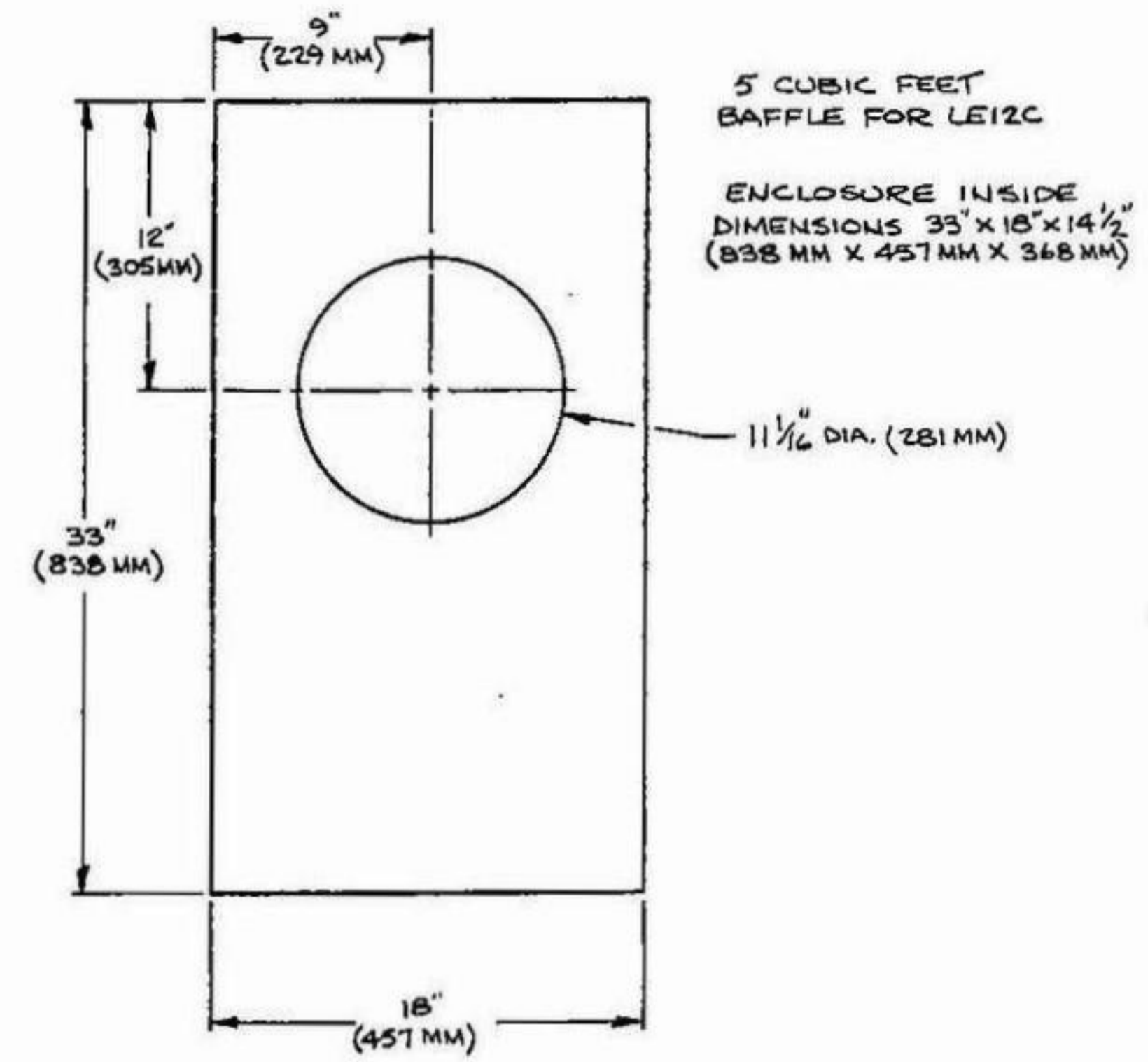
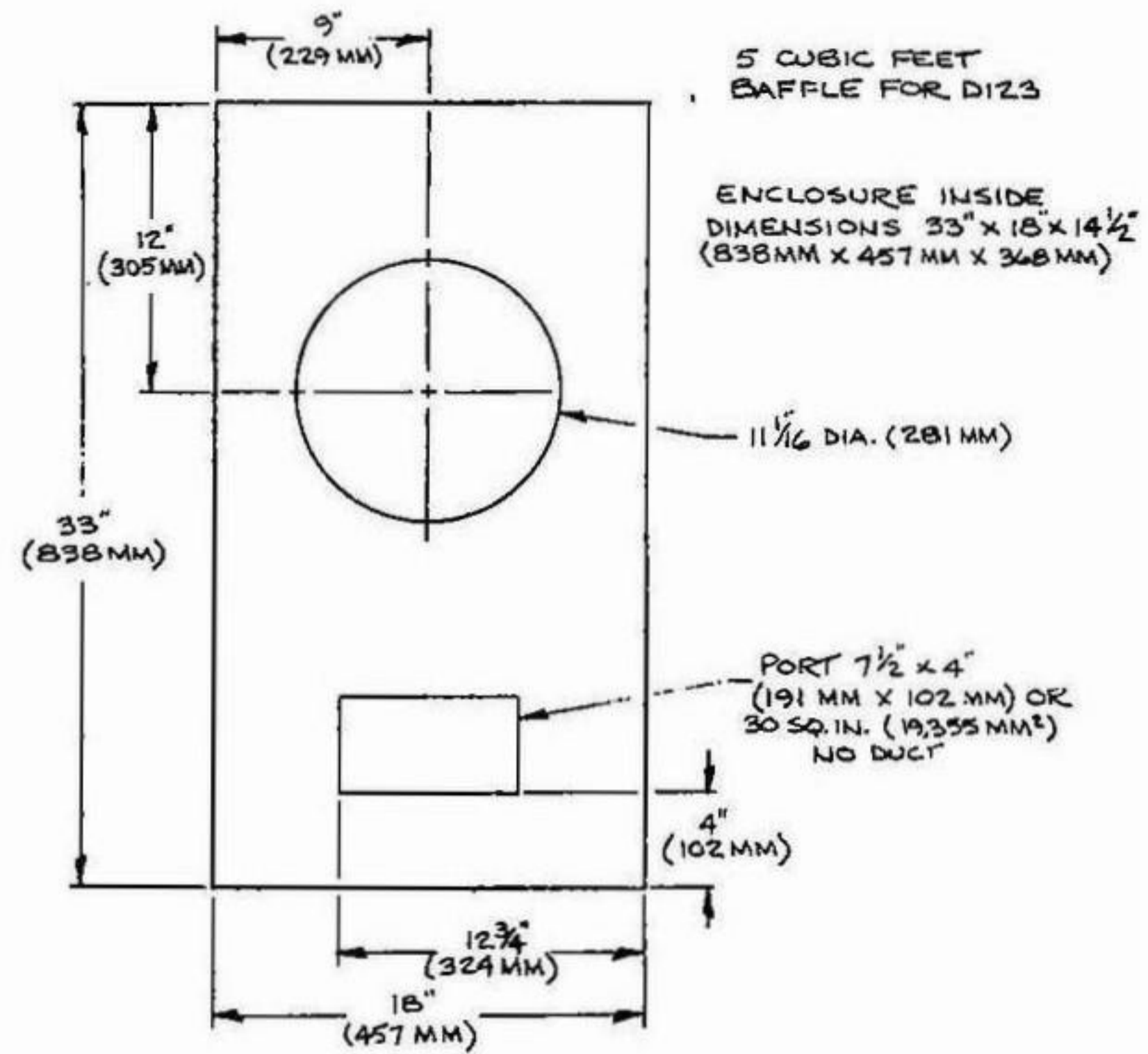
JBL

JAMES B. LANSING, INC.
Northridge, California 91329

TITLE:
5 CUBIC FEET, BAFFLE BOARDS FOR
HOME HIGH FIDELITY LOUDSPEAKER SYSTEMS

SHEET 1 OF 2

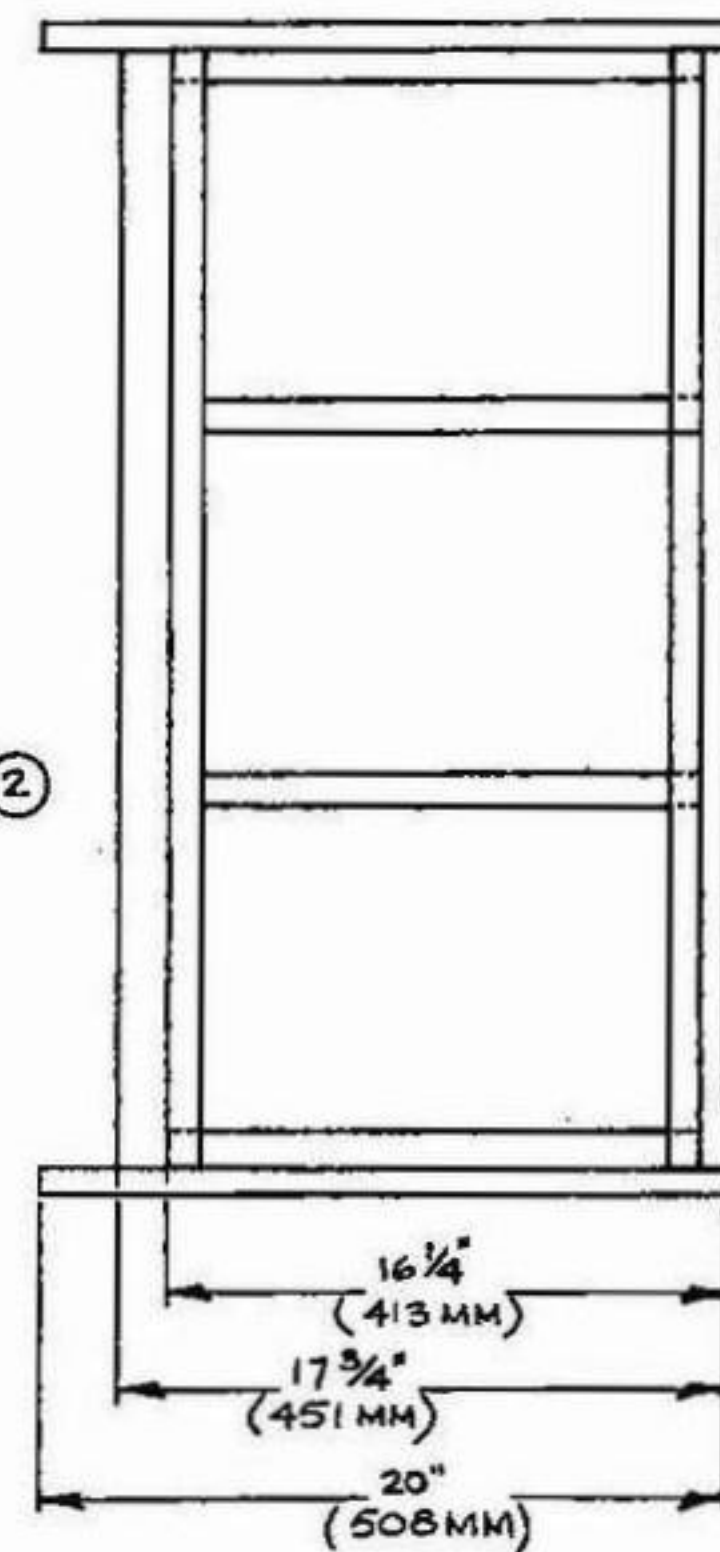
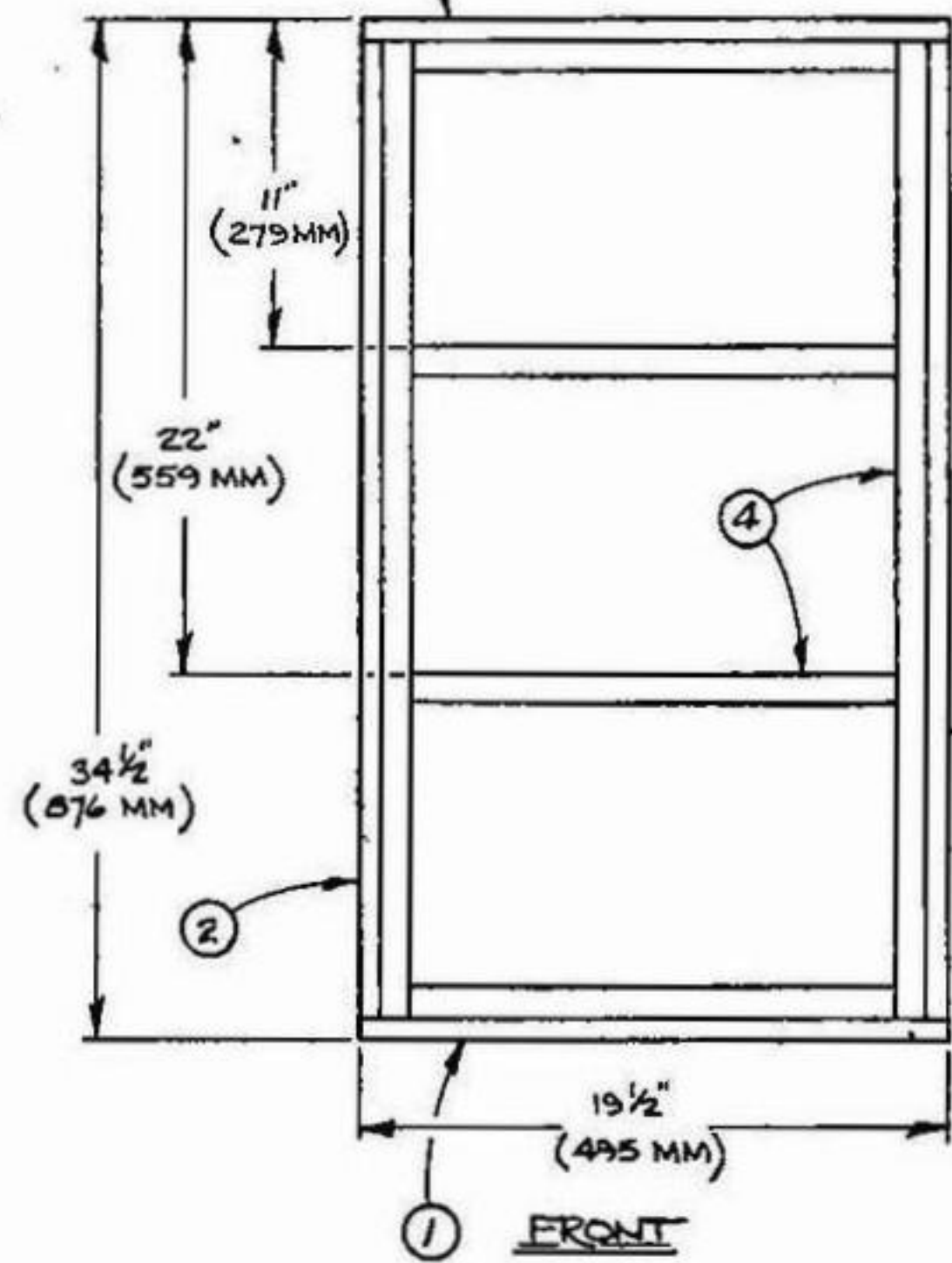
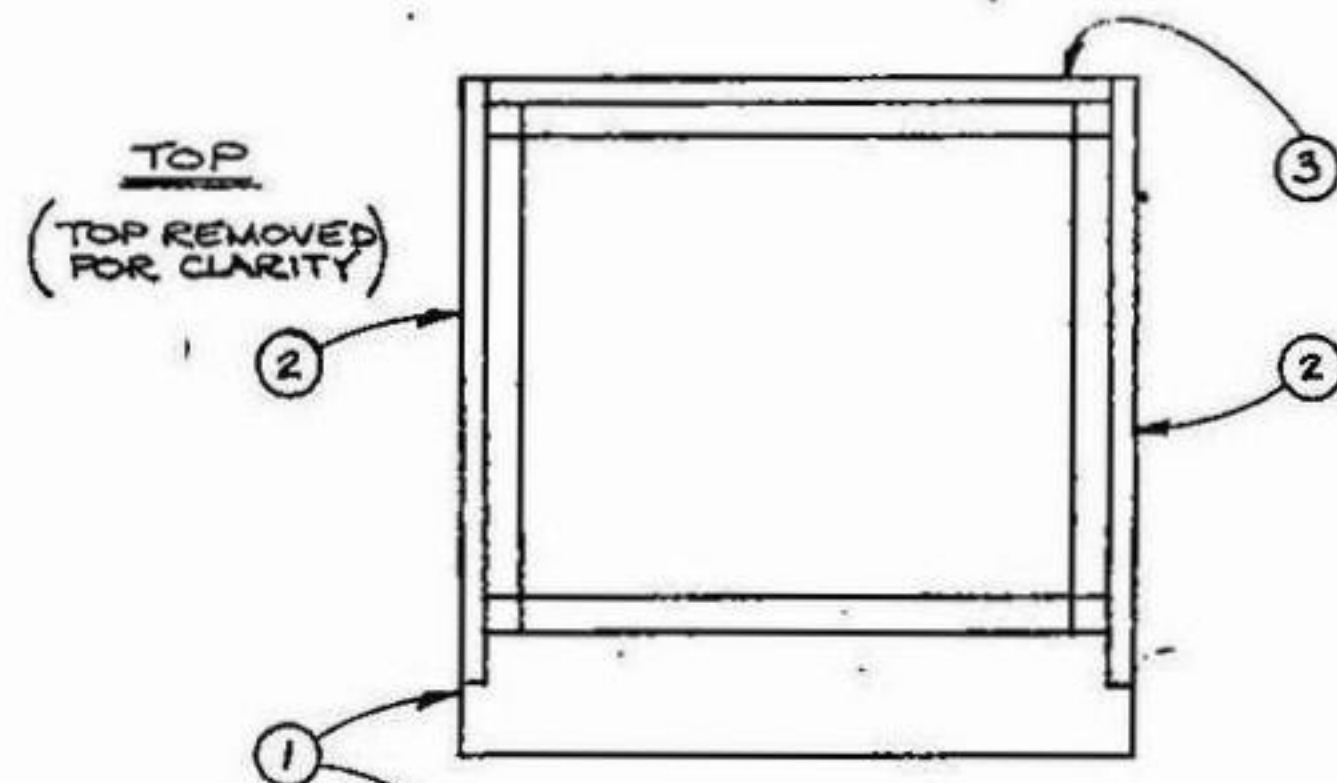
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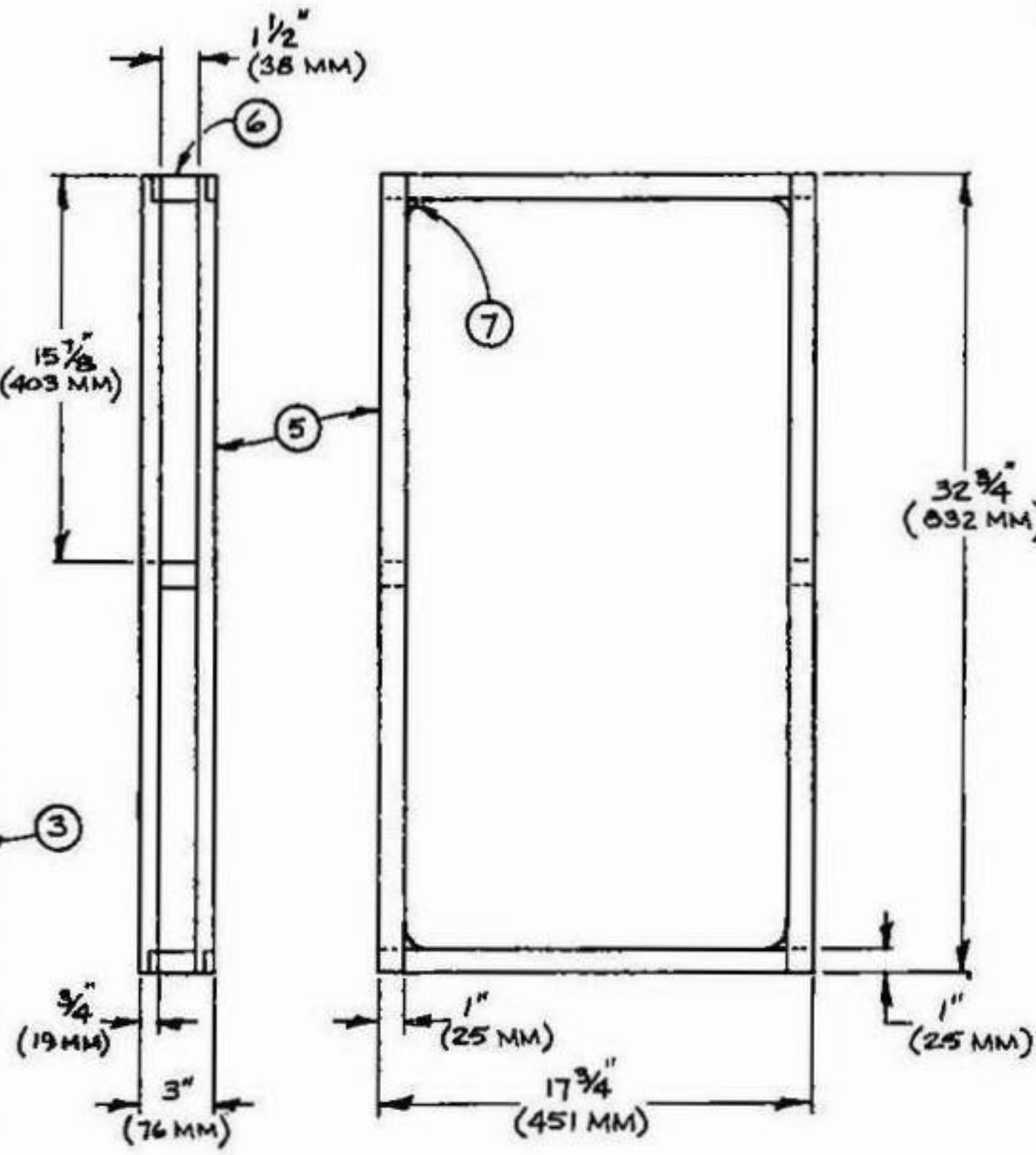
NOTES:-

- ALL PARTS SHOULD BE GLUED AND SCREWED. SCREWS SHOULD BE APPROX. EVERY 5 INCHES (127 MM)
- A SOUND ABSORBING MATERIAL, SUCH AS FIBERGLASS SHOULD BE GLUED OR STAPLED SO THAT IT COVERS THE INSIDE OF THE ENCLOSURE. THE MATERIAL SHOULD BE APPROX. 1" (25 MM) THICK AND SHOULD NOT BLOCK ANY PORT OPENINGS.
- BAFFLE WILL INSET IN FRONT. GLUE AND SCREW IN PLACE.
- ALL ENCLOSURE PARTS ARE CUT FROM 3/4" (19.1 MM) VOID-FREE PLYWOOD, OR HIGH DENSITY PARTICLE BOARD (CHIPBOARD).

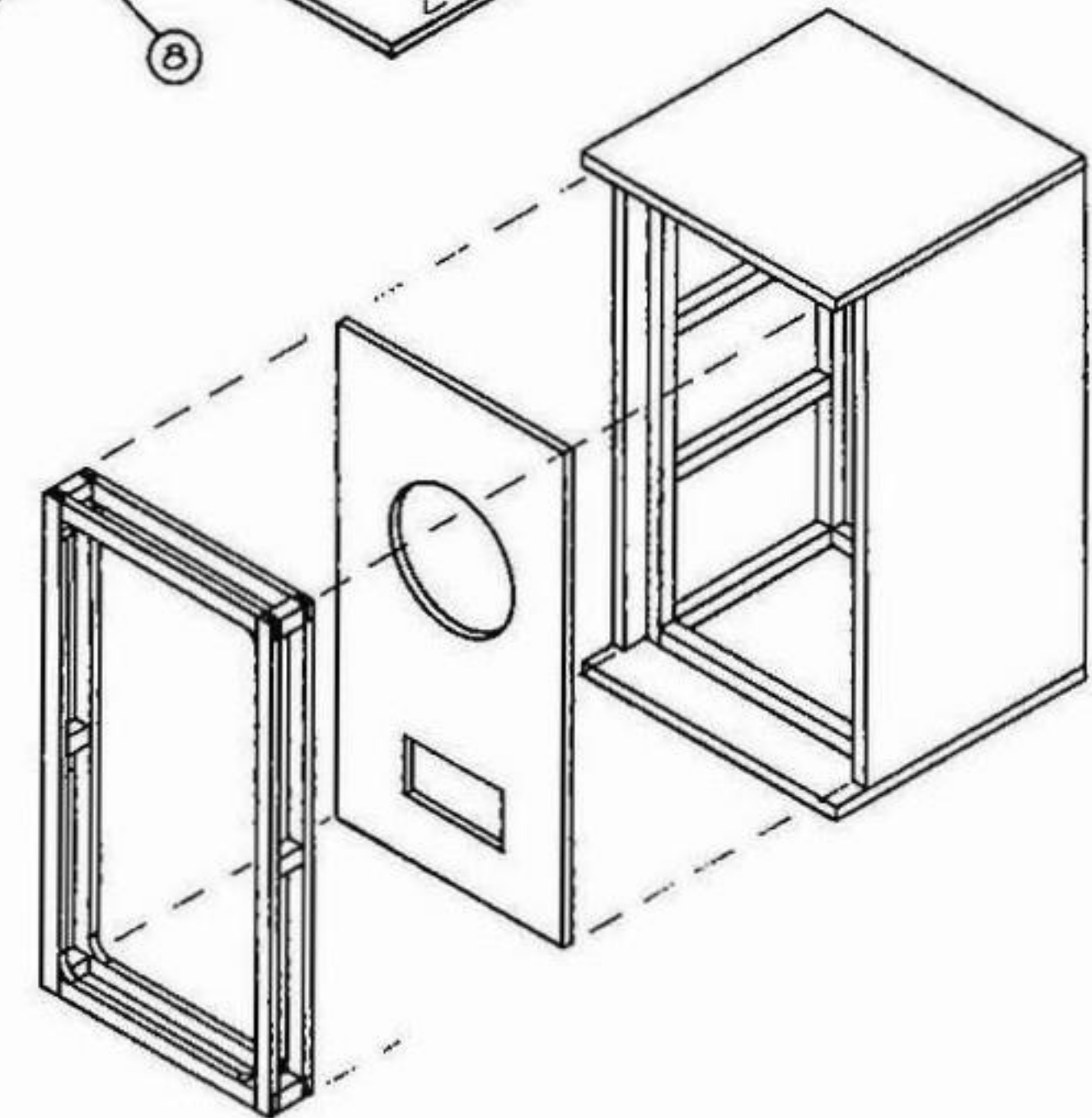
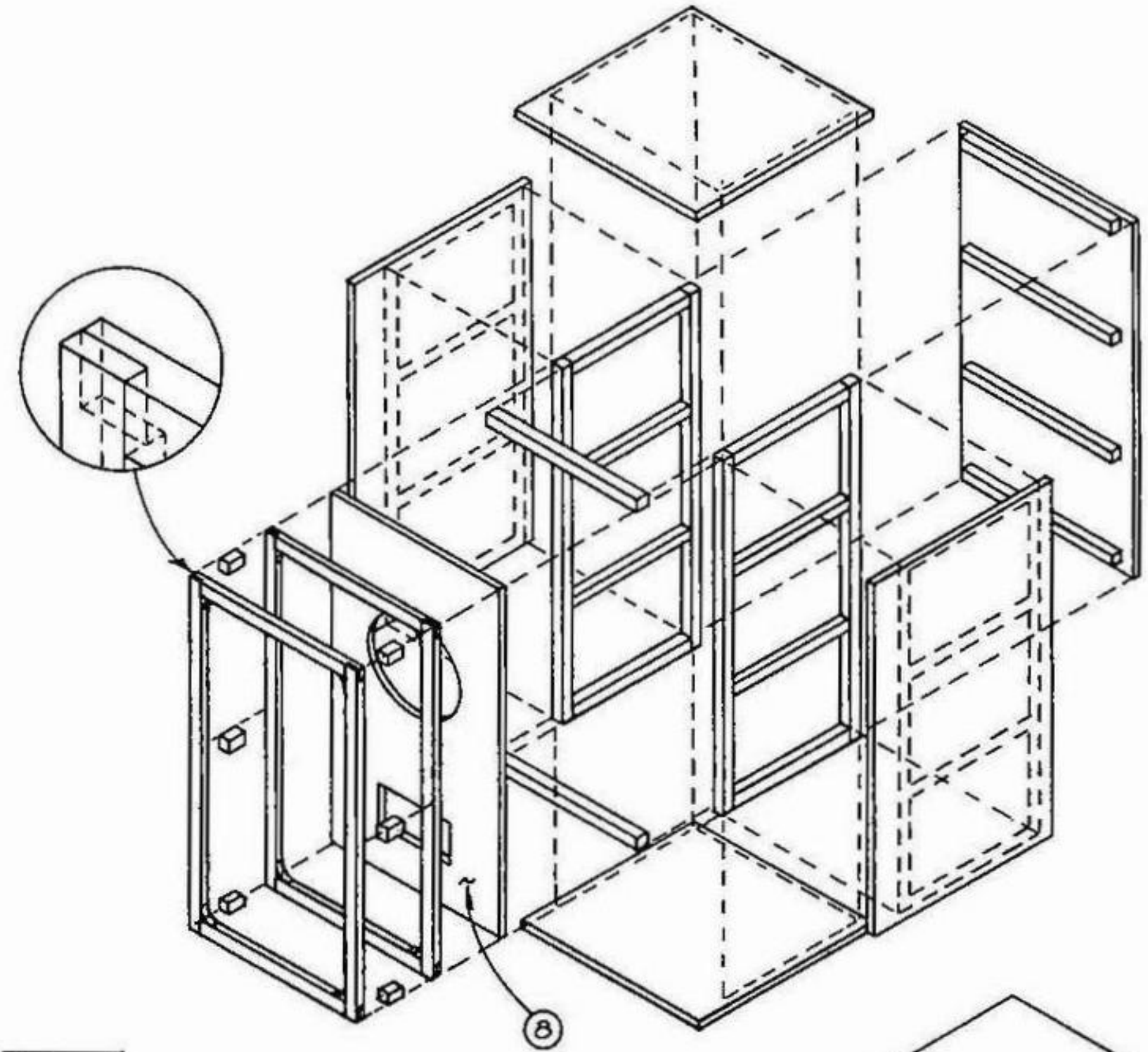
ITEM	SIZE
① TOP & BOTTOM	19 1/2" x 20" (495 x 508 MM)
② SIDES	33" x 17 3/4" (838 x 450 MM)
③ BACK	33" x 18" (838 x 457 MM)
④ CLEATS	1" x 1" NET (25 x 25 MM) PINE
⑤ GRILLE FRAME	3/4" x 1" (19 x 25 MM) PINE
⑥ GRILLE SPACERS	1" x 1 1/2" (25 x 38 MM) PINE
⑦ GUSSETS	3/4" x 1" x 1" (19 x 25 x 25 MM) PINE
⑧ BAFFLE BOARD	3/4" x 18" x 33" (19 x 457 x 838 MM)



SIDE
(SIDE REMOVED FOR CLARITY)



GRILLE FRAME ASSY

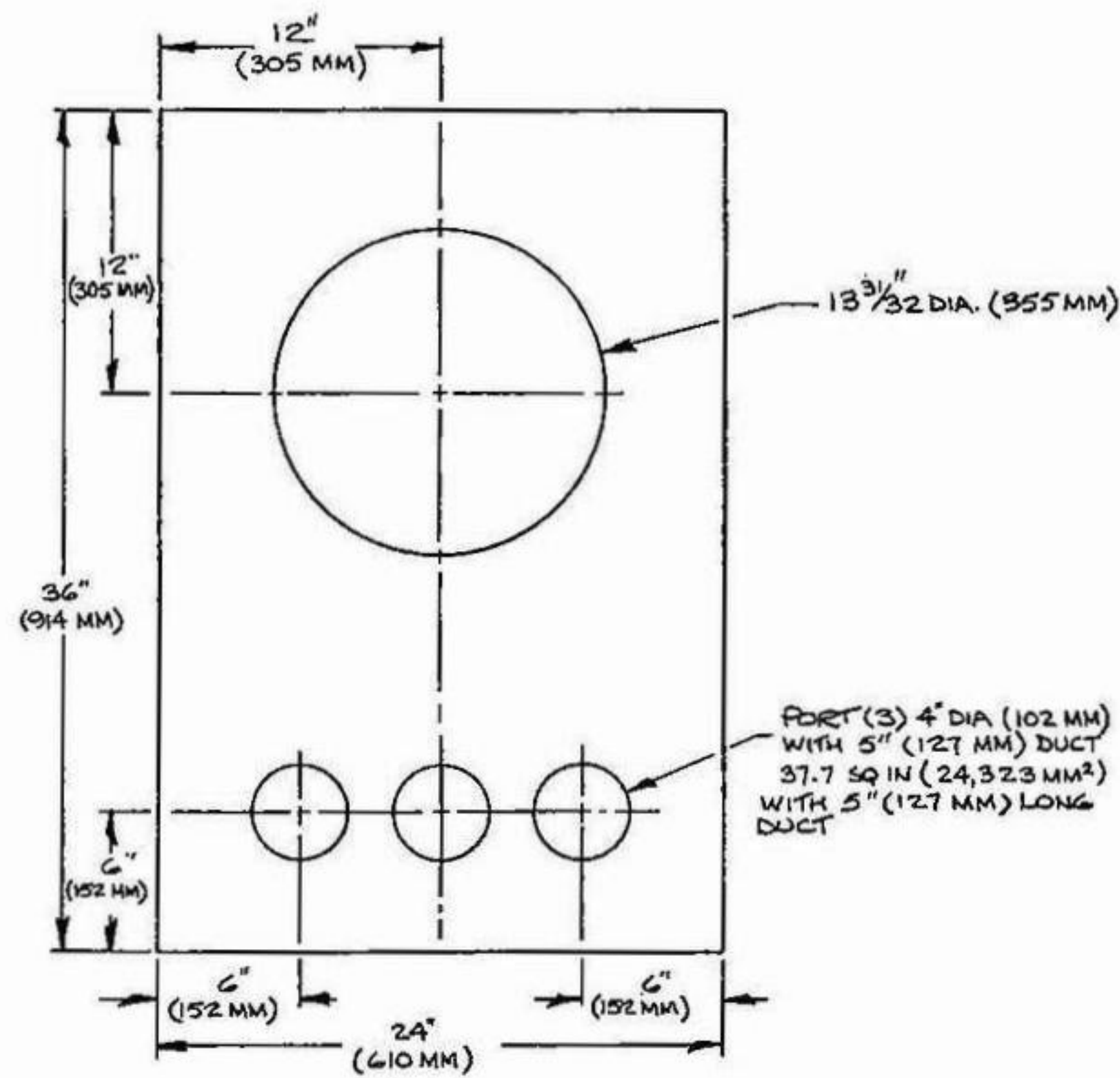


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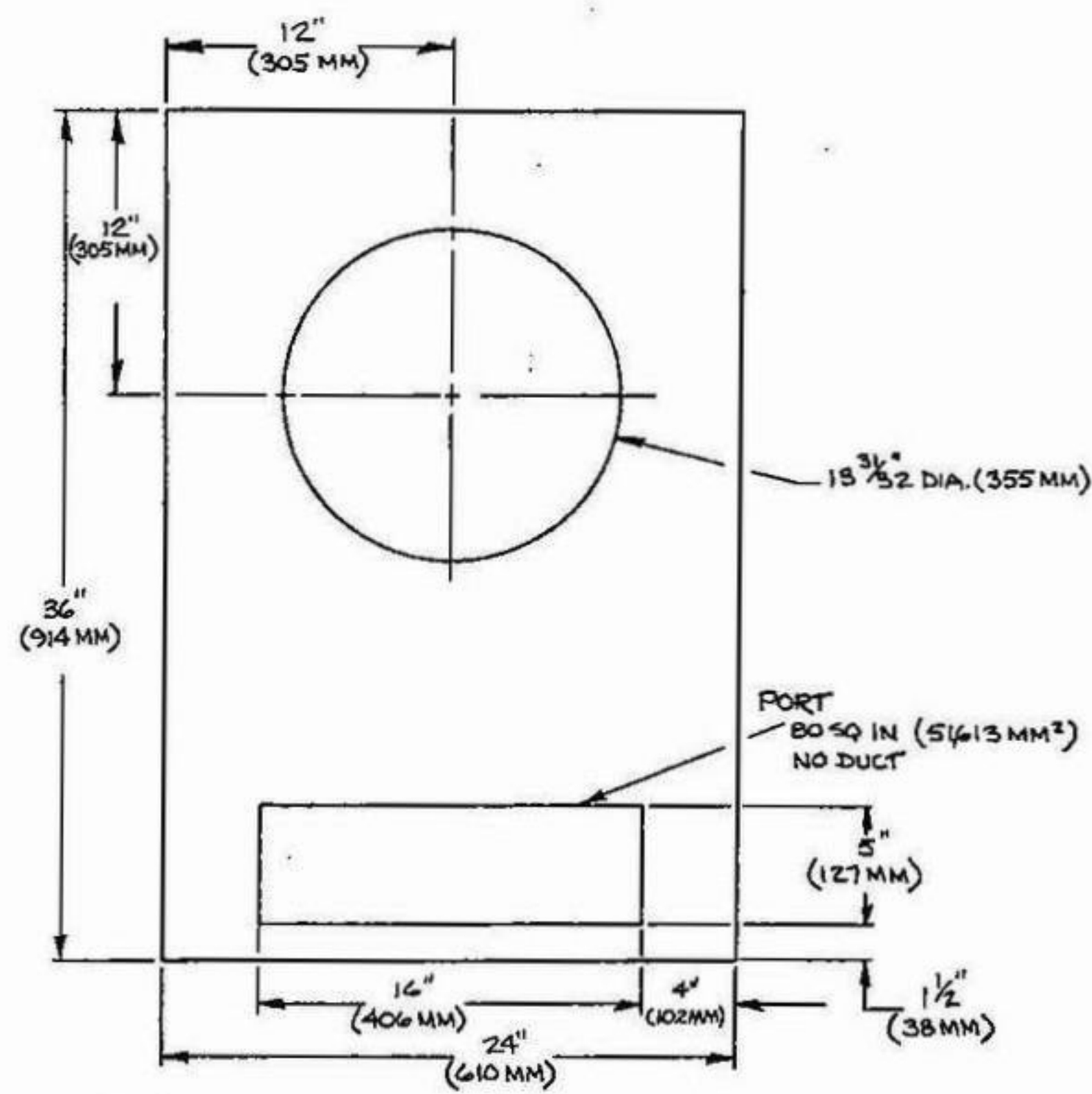
JAMES B. LANSING, INC.
Northridge, California 91329

TITLE: 5 CUBIC FEET, ENCLOSURE FOR HOME HIGH FIDELITY LOUDSPEAKER SYSTEMS

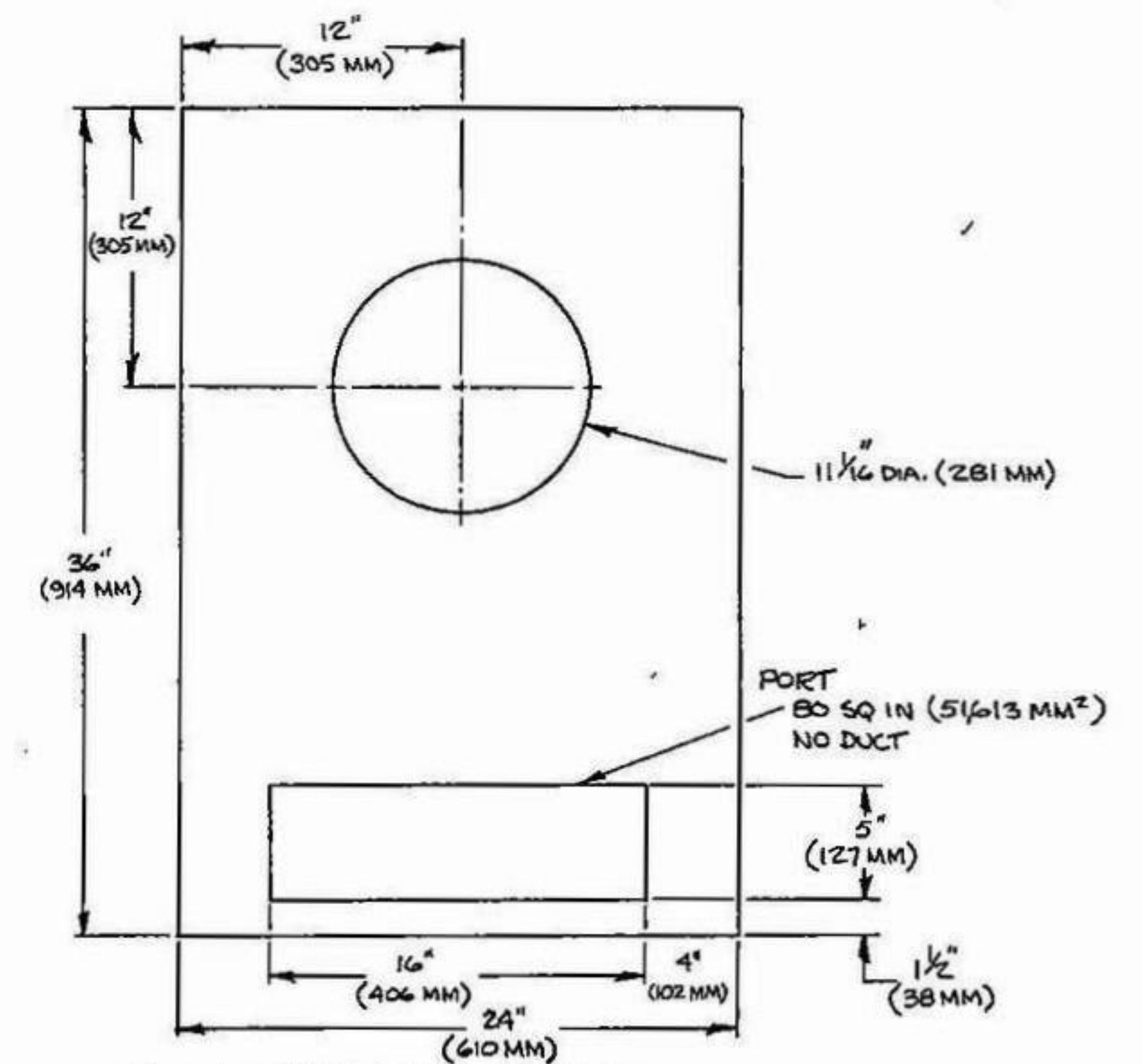
SHEET | OF |
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND MILLIMETERS



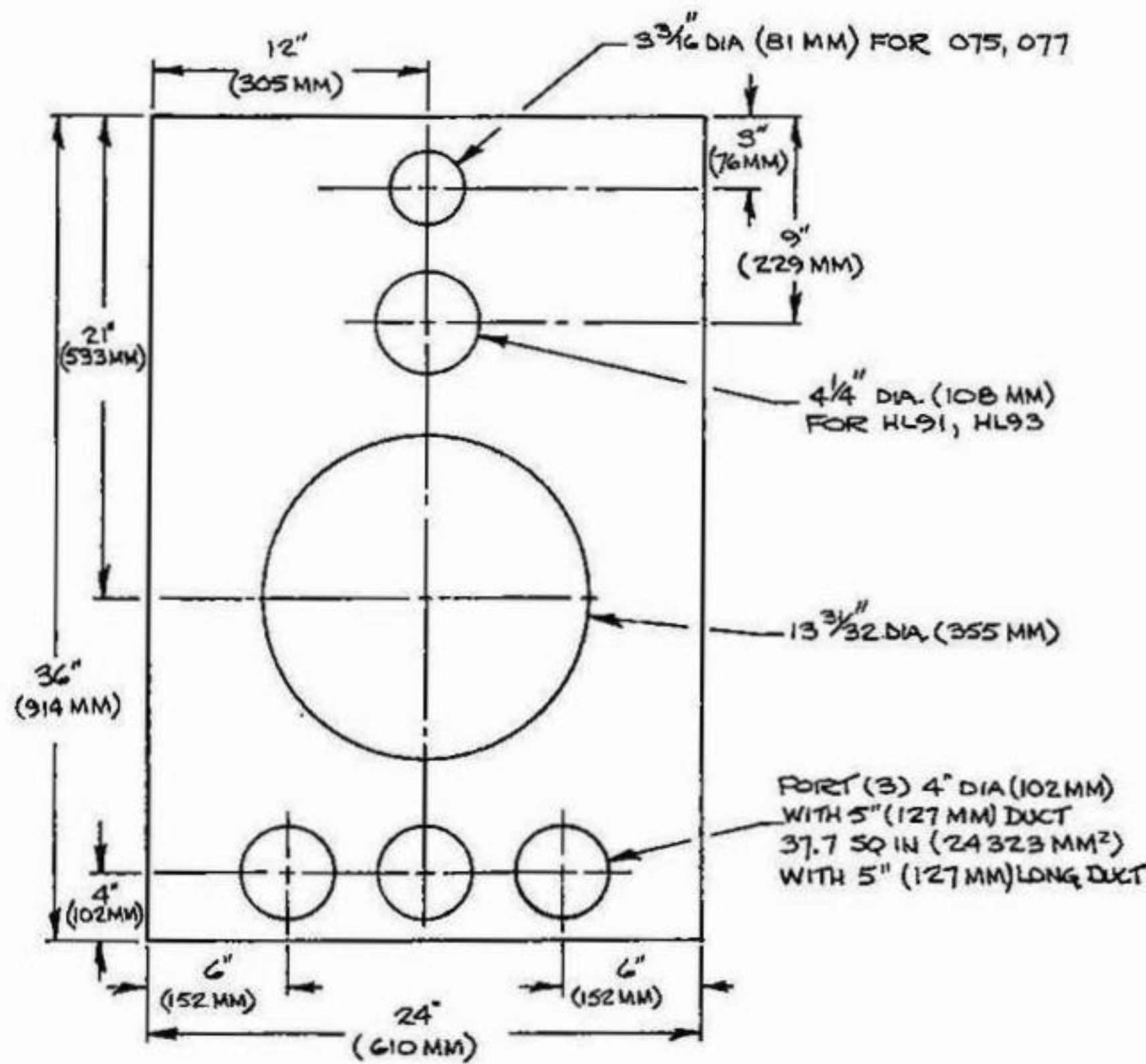
8 CUBIC FEET, BAFFLE FOR LE15A
ENCLOSURE INSIDE DIMENSIONS 36" X 24" X 16"
(914 MM X 610 MM X 406 MM)



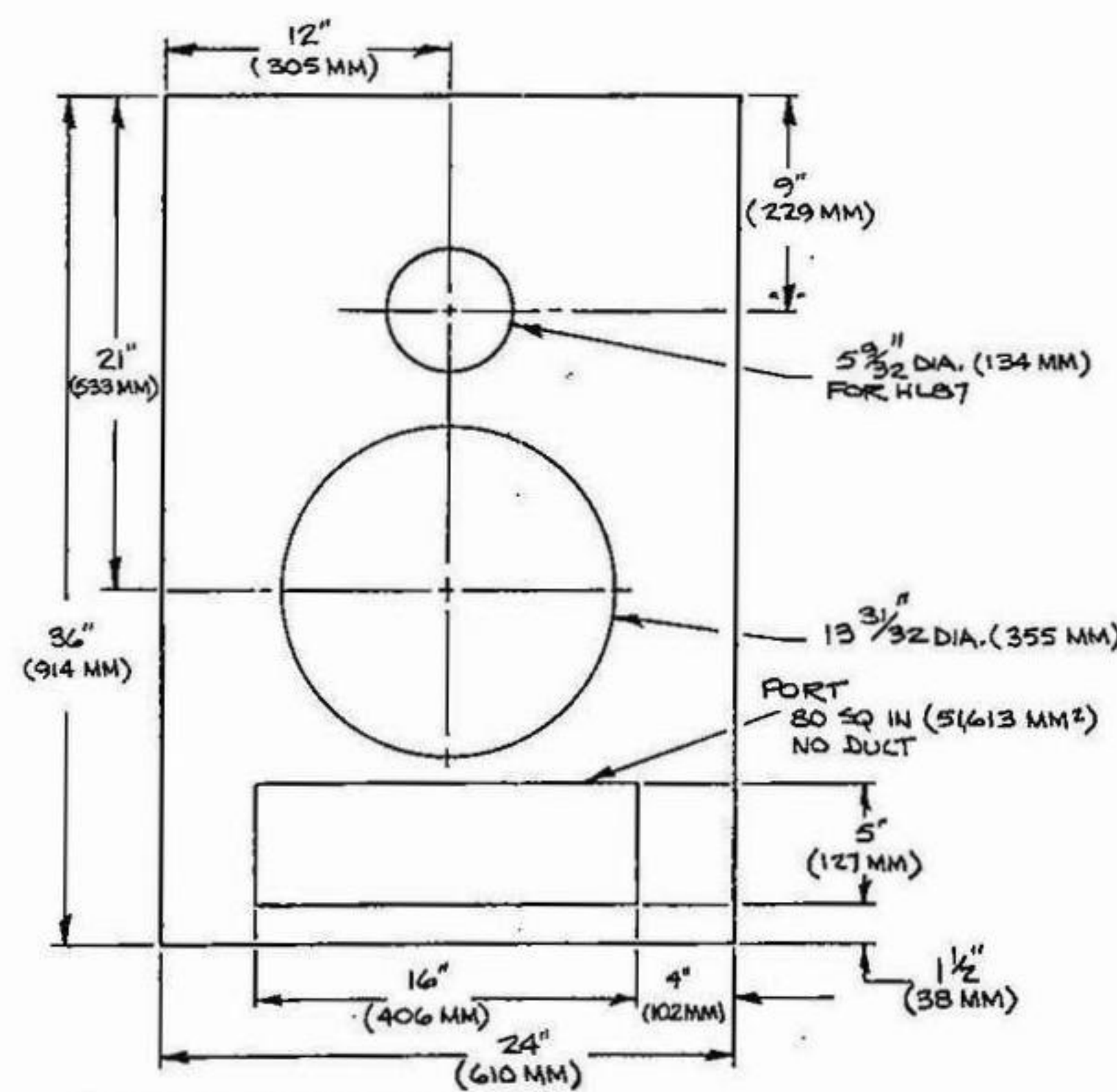
8 CUBIC FEET, BAFFLE FOR D130, 130A
ENCLOSURE INSIDE DIMENSIONS 36" X 24" X 16"
(914 MM X 610 MM X 406 MM)



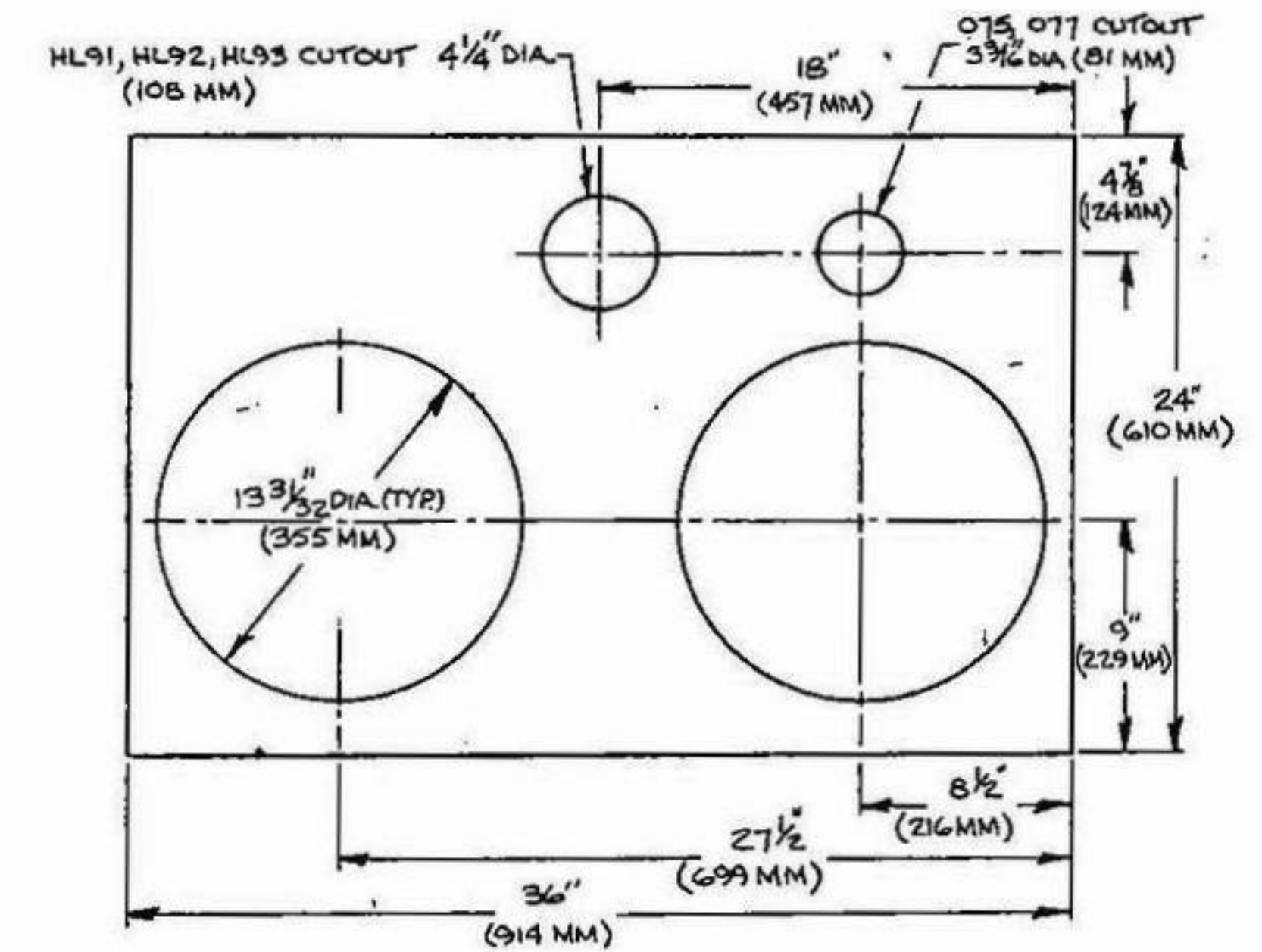
8 CUBIC FEET, BAFFLE FOR D131
ENCLOSURE INSIDE DIMENSIONS 36" X 24" X 16"
(914 MM X 610 MM X 406 MM)



8 CUBIC FEET, BAFFLE FOR
LE15A & LE15B, HL91, HL92; OR 375, HL93 & 075 OR 077.
ENCLOSURE INSIDE DIMENSIONS 36" X 24" X 16"
(914 MM X 610 MM X 406 MM)



8 CUBIC FEET, BAFFLE FOR
130A & LE175, HL87
ENCLOSURE INSIDE DIMENSIONS 36" X 24" X 16"
(914 MM X 610 MM X 406 MM)



8 CUBIC FEET, BAFFLE FOR LE15A, PR15 OR 136A, PR15C WITH
MIDRANGE & HIGH FREQUENCY COMPONENTS
ENCLOSURE INSIDE DIMENSIONS 36" X 24" X 16"
(914 MM X 610 MM X 406 MM)

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Northridge, California 91329

TITLE: 8 CUBIC FEET, BAFFLE BOARDS FOR
HOME HIGH FIDELITY LOUDSPEAKER SYSTEMS

SHEET | OF |
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND MILLIMETERS.

NOTES:-

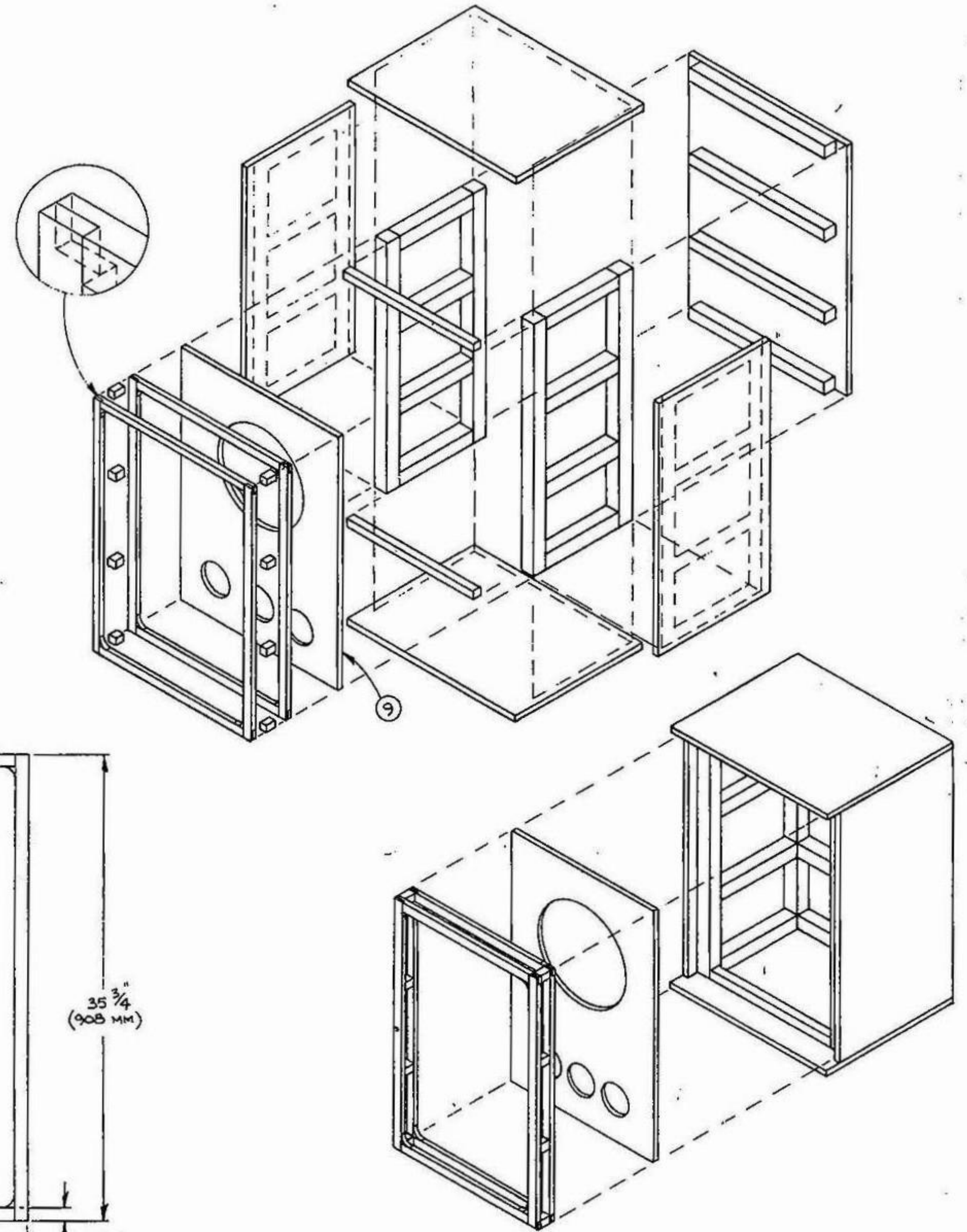
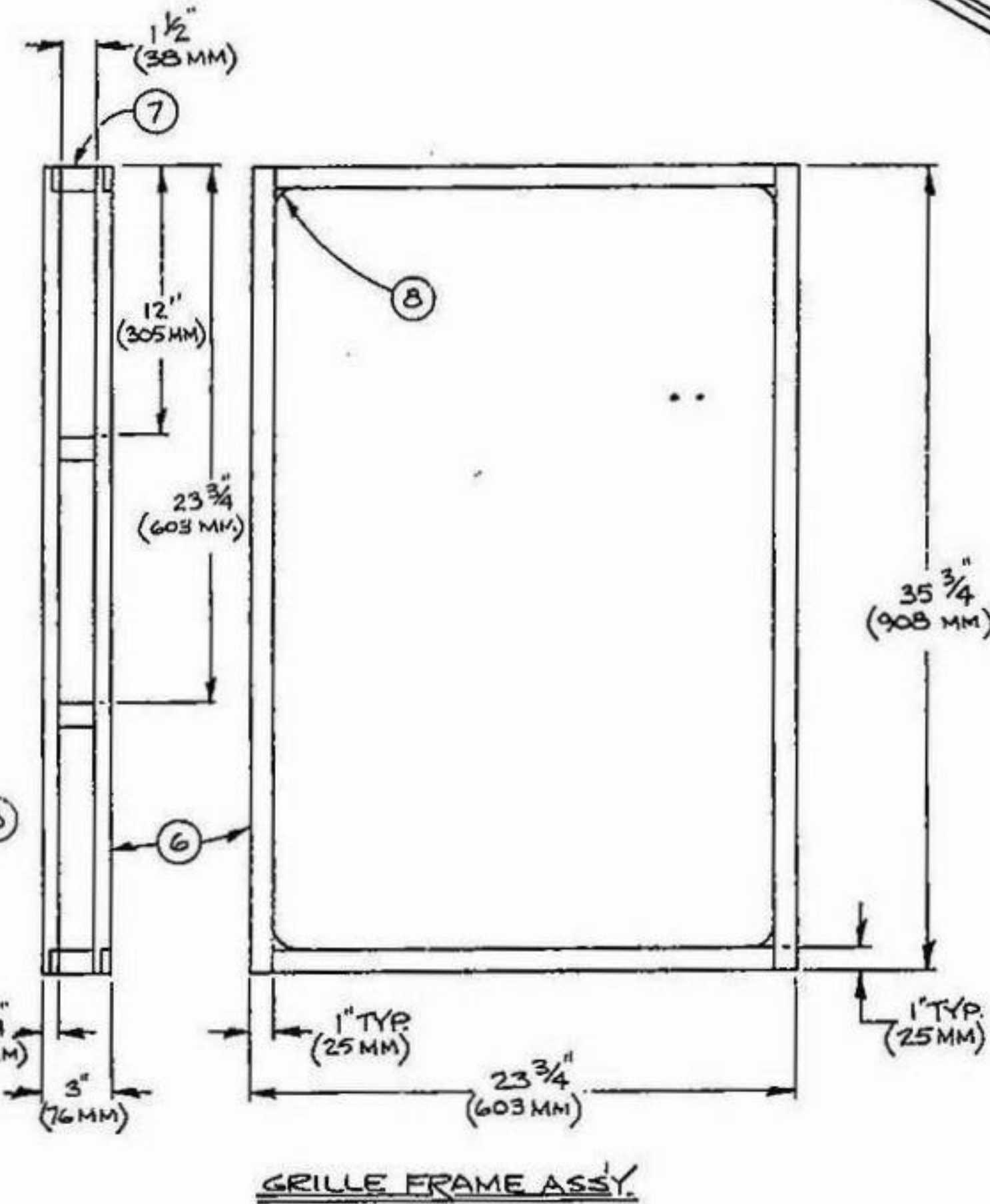
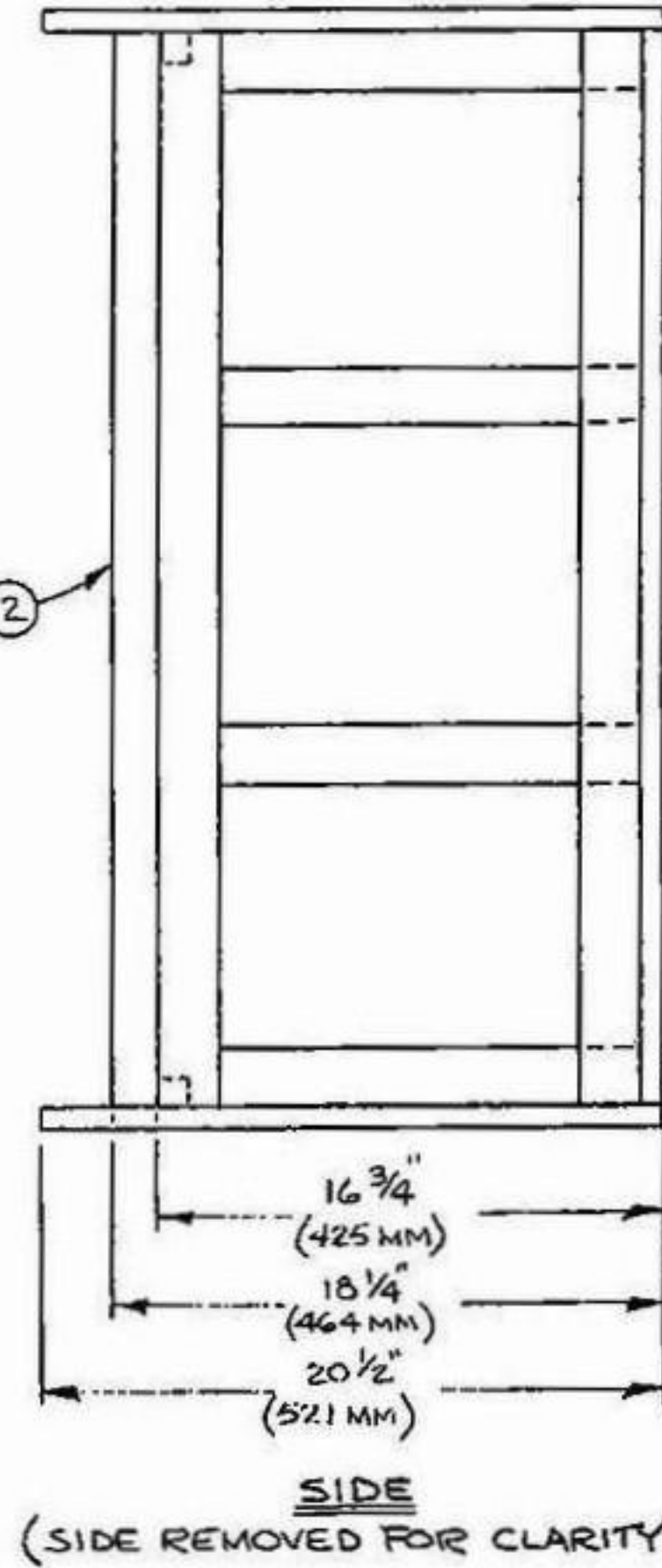
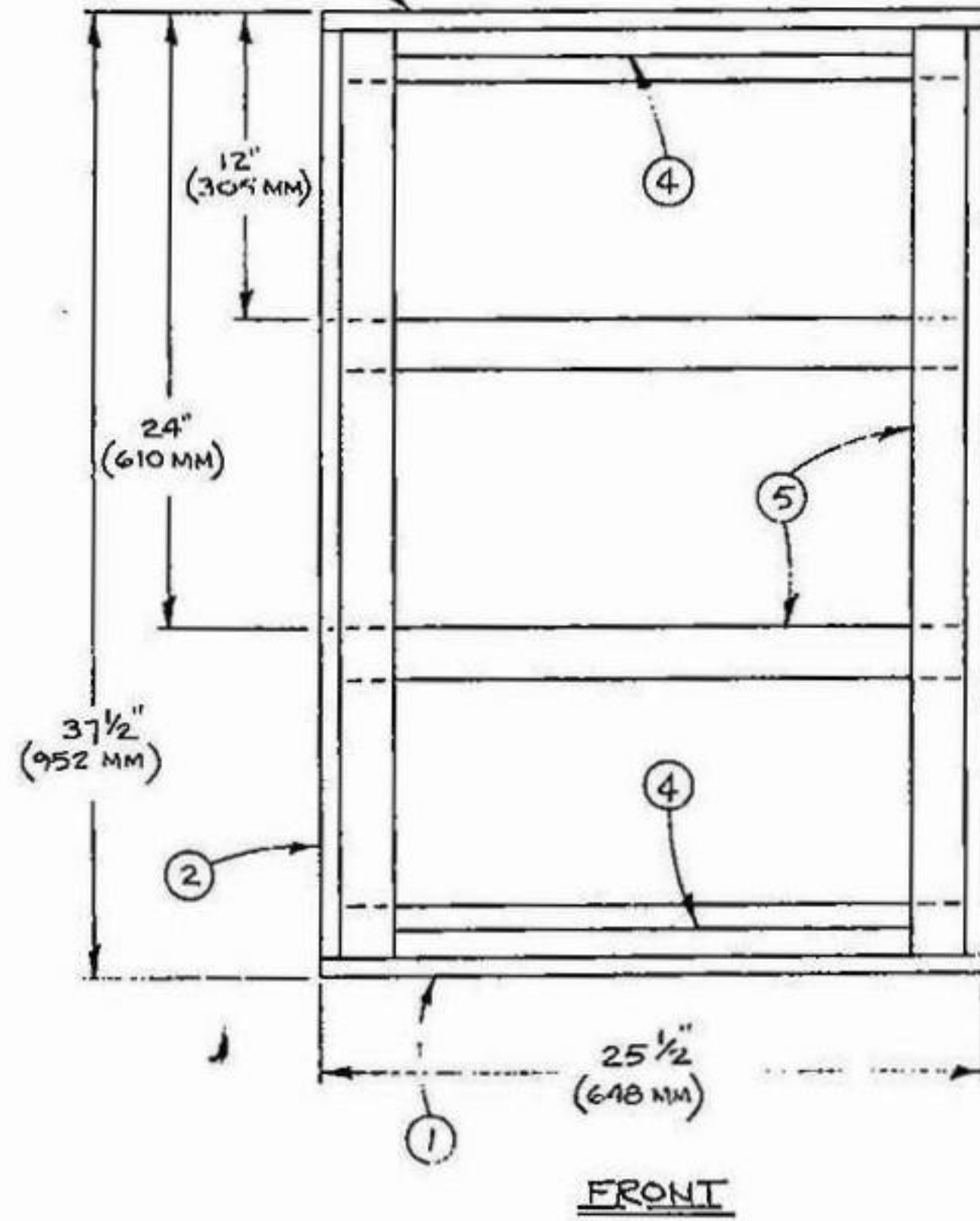
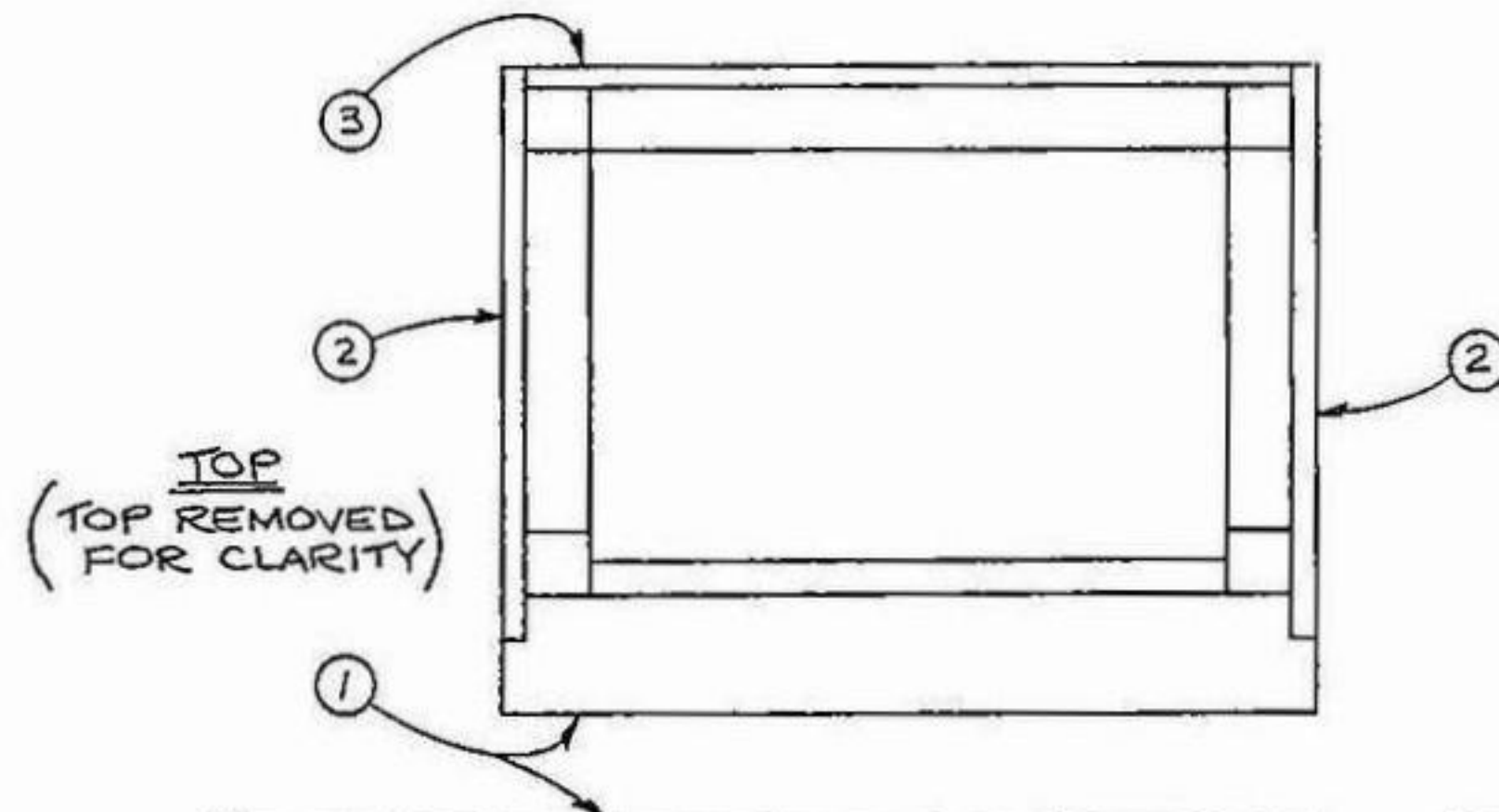
- ALL PARTS SHOULD BE GLUED AND SCREWED. SCREWS SHOULD BE APPROX. EVERY 5 INS. (127MM)

- A SOUND ABSORBING MATERIAL, SUCH AS FIBERGLASS SHOULD BE GLUED OR STAPLED SO THAT IT COVERS THE INSIDE OF THE ENCLOSURE. THE MATERIAL SHOULD BE APPROX. 1" (25 MM) THICK AND SHOULD NOT BLOCK ANY PORT OPENINGS.

- BAFFLE WILL INSET IN FRONT. GLUE AND SCREW IN PLACE.

- ALL ENCLOSURE PARTS ARE CUT FROM 3/4" (19.1MM) VOID-FREE PLYWOOD, OR HIGH DENSITY PARTICLE BOARD (CHIPBOARD).

ITEM	SIZE
① TOP & BOTTOM	25 1/2" x 20 1/2" (648 x 521 MM)
② SIDES	36" x 18 1/4" (914 x 464 MM)
③ BACK	36" x 24" (914 x 610 MM)
④ CLEATS	1" x 1" NET (25 x 25 MM) PINE
⑤ CLEATS	2" x 2" (51 x 51 MM) PINE
⑥ GRILLE FRAME	3/4" x 1" (19 x 25 MM) PINE
⑦ GRILLE SPACERS	1" x 1" (25 x 25 MM) PINE
⑧ GUSSETS	3/4" x 1" x 1" (19 x 25 x 25 MM) PINE
⑨ BAFFLE BOARD	3/4" x 24" x 36" (19 x 610 x 914 MM)



JBL JAMES B. LANSING, INC.
Northridge, California 91329

TITLE: 8 CUBIC FEET, ENCLOSURE FOR HOME HIGH FIDELITY LOUDSPEAKER SYSTEMS

SHEET | OF |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND MILLIMETERS.

JBL Enclosure Porting Chart

Home Entertainment Loudspeakers

MODEL	INTERNAL VOLUME Litres Cubic Feet	21-28 0.75-1.0	29-42 1.1-1.5	43-56 1.6-2.0	57-84 2.1-3.0	85-113 3.1-4.0	114-141 4.1-5.0	142-169 5.1-6.0	170-197 6.1-7.0	198-225 7.1-8.0	226-253 8.1-9.0	254-281 9.1-10.0	282-310 10.1-11.0	311-338 11.1-12.0
LE8T	Sealed Box		19 cm ³ 80 mm duct (3 in ³) 3 in duct	45 cm ³ 110 mm duct (7 in ³) 4 1/4 in duct	84 cm ³ 140 mm duct (13 in ³) 5 1/4 in duct	84 cm ³ 80 mm duct (13 in ³) 3 in duct								
D208				84 cm ³ 90 mm duct (13 in ³) 3 1/4 in duct	168 cm ³ 130 mm duct (26 in ³) 6 in duct	168 cm ³ 50 mm duct (26 in ³) 2 in duct								
D123					84 cm ³ 50 mm duct (13 in ³) 2 in duct	168 cm ³ 60 mm duct (26 in ³) 2 1/4 in duct	168 cm ³ no duct (26 in ³) no duct							
D130 130A							84 cm ³ no duct (13 in ³) no duct	258 cm ³ 80 mm duct (40 in ³) 3 in duct	323 cm ³ 80 mm duct (50 in ³) 3 in duct	323 cm ³ 50 mm duct (50 in ³) 2 in duct	516 cm ³ 100 mm duct (80 in ³) 4 in duct	516 cm ³ 80 mm duct (80 in ³) 3 in duct	613 cm ³ 80 mm duct (95 in ³) 3 in duct	742 cm ³ 80 mm duct (115 in ³) 3 in duct
LE10A	Sealed Box		45 cm ³ 200 mm duct (7 in ³) 8 in duct	45 cm ³ 130 mm duct (7 in ³) 5 in duct	84 cm ³ 170 mm duct (13 in ³) 6 1/4 in duct									
124A			45 cm ³ 200 mm duct (7 in ³) 8 in duct	45 cm ³ 130 mm duct (7 in ³) 5 in duct										
LE14A			45 cm ³ 200 mm duct (7 in ³) 8 in duct	45 cm ³ 130 mm duct (7 in ³) 5 in duct	84 cm ³ 170 mm duct (13 in ³) 6 1/4 in duct	84 cm ³ 110 mm duct (13 in ³) 4 1/4 in duct								
LE15A							168 cm ³ 180 mm duct (26 in ³) 7 in duct or PR15C (see note 6)	168 cm ³ 130 mm duct (26 in ³) 5 in duct or PR15C (see note 6)	168 cm ³ 80 mm duct (26 in ³) 3 in duct or PR15C (see note 6)	258 cm ³ 130 mm duct (40 in ³) 5 in duct or PR15C (see note 6)				
136A					84 cm ³ 170 mm duct (13 in ³) 6 1/4 in duct or PR15C (see note 6)	84 cm ³ 110 mm duct (13 in ³) 4 1/4 in duct or PR15C (see note 6)	168 cm ³ 200 mm duct (26 in ³) 8 in duct or PR15C (see note 6)							

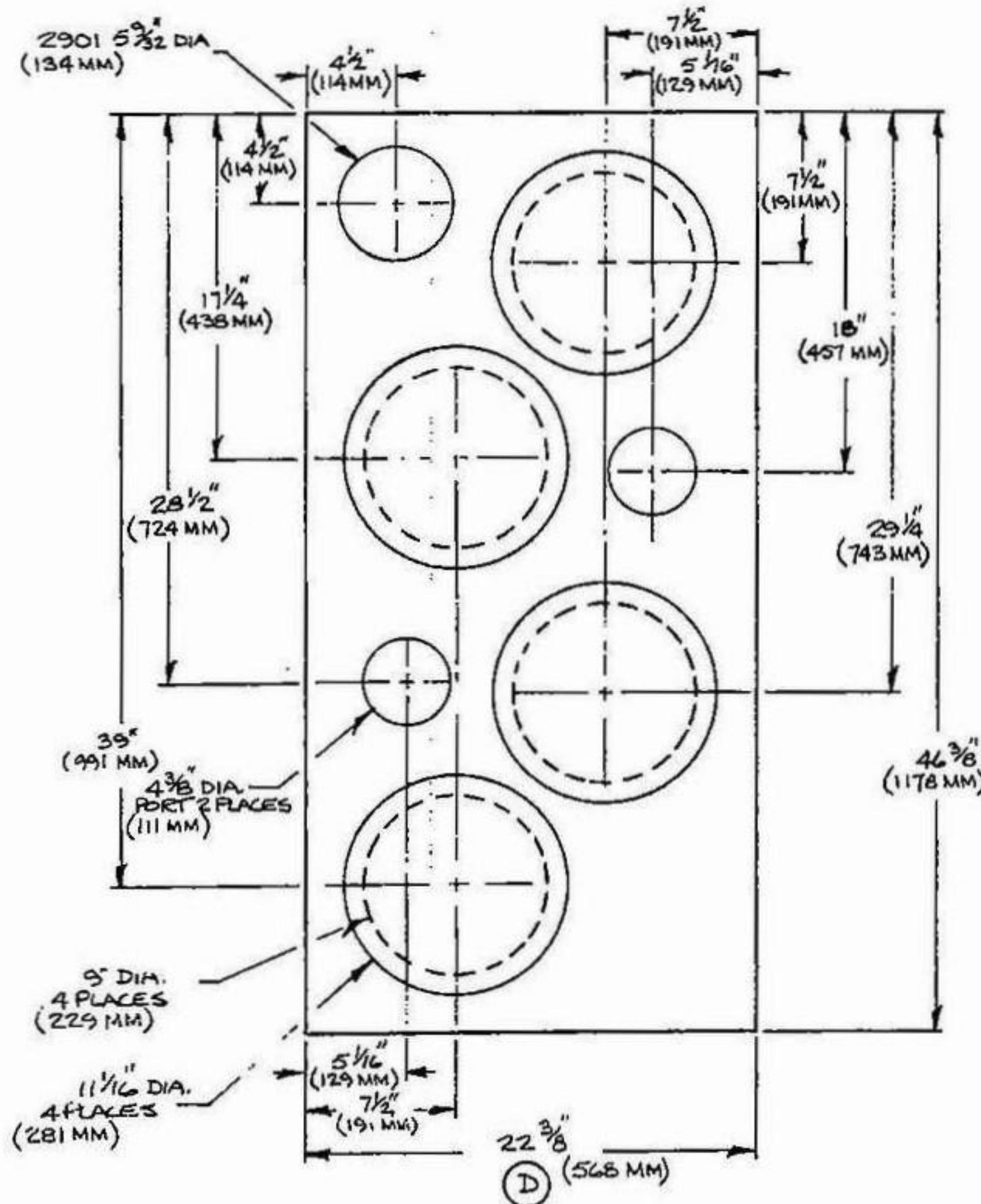
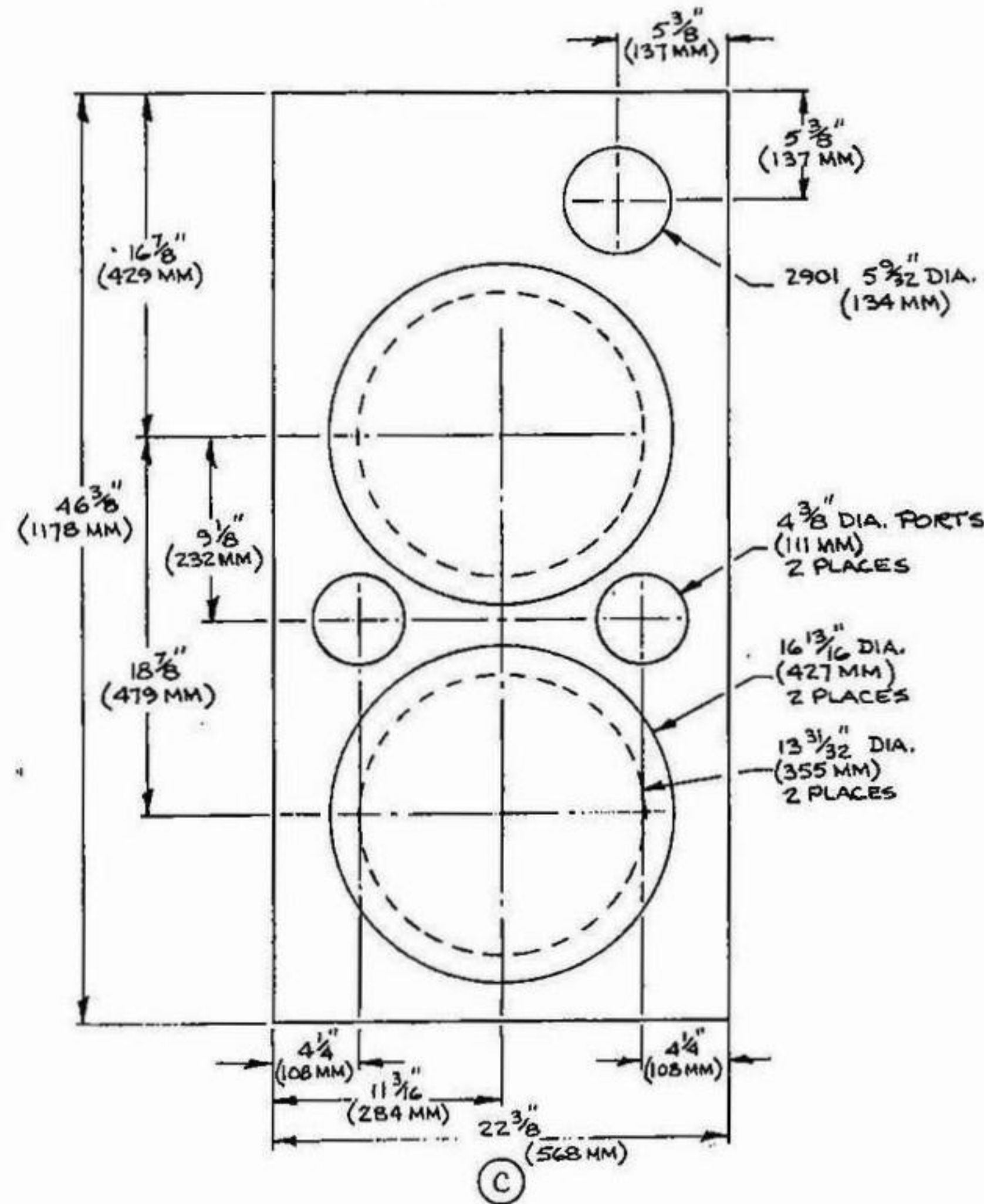
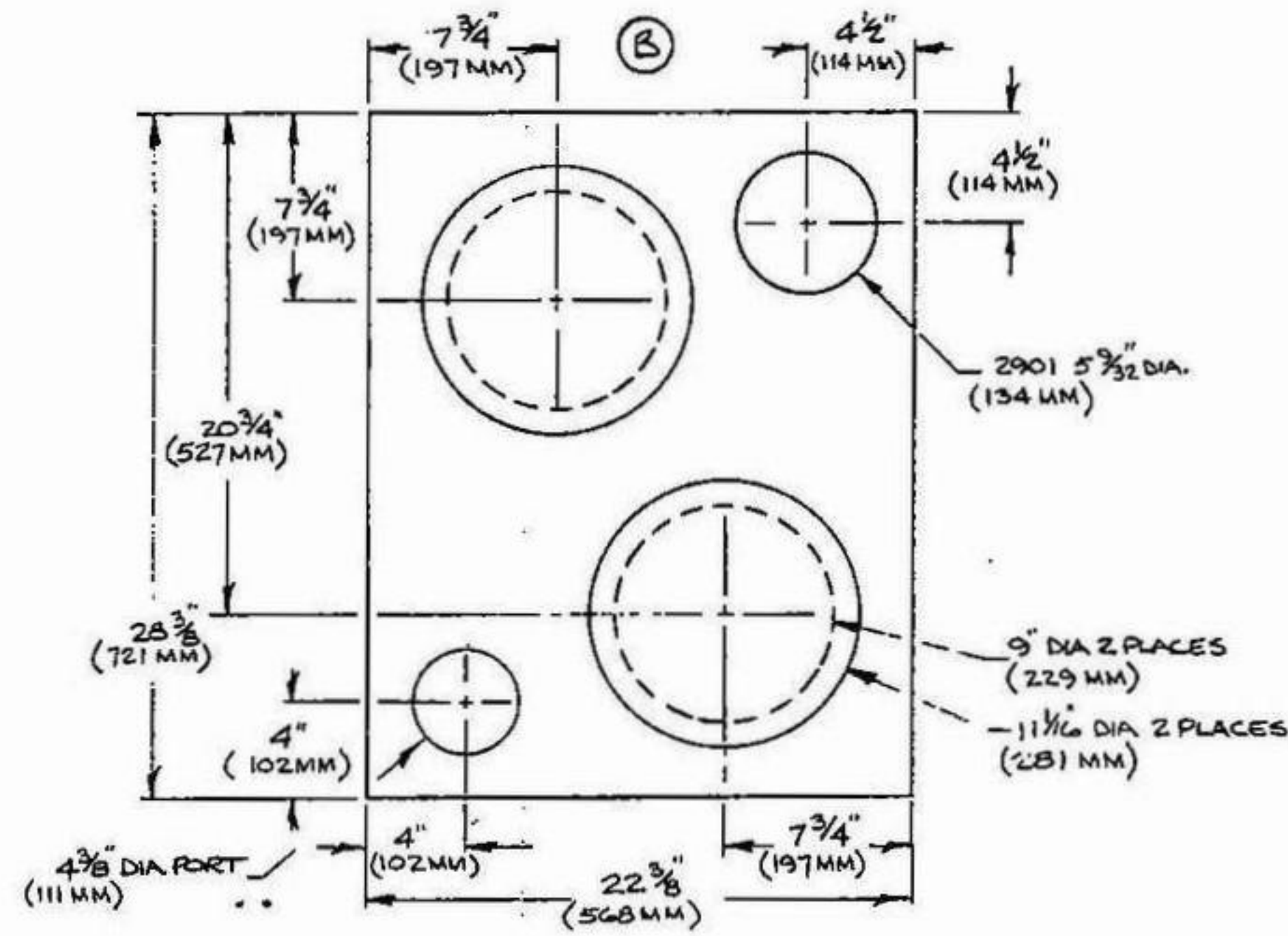
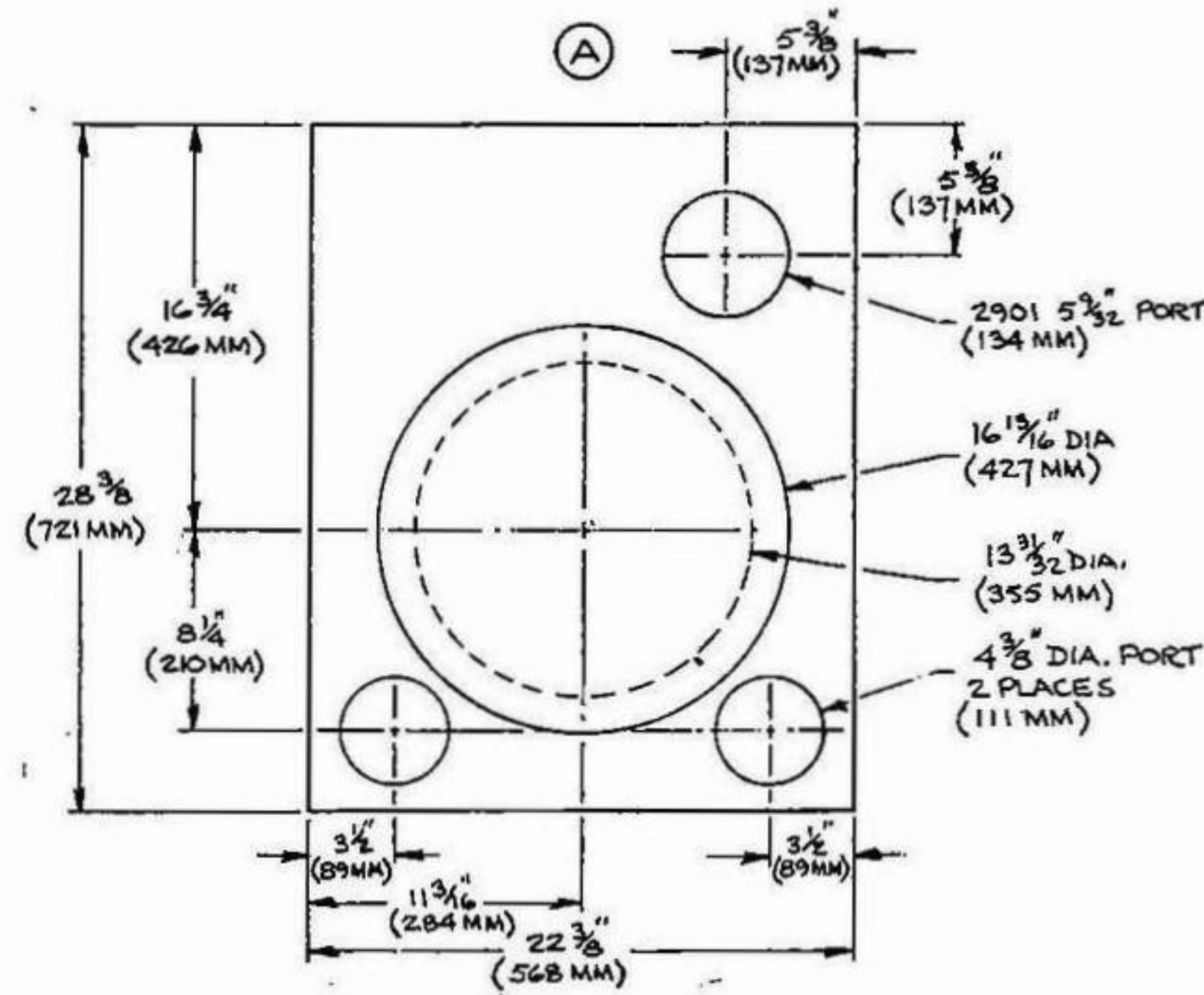
Notes

- This chart contains porting recommendations for JBL full range, extended range and low frequency loudspeakers in a variety of enclosure volumes. Each represents the optimum for the mean of the volume range indicated, i.e., the dimensions given for an enclosure volume of 85 - 113 liters (3.1-4.0 cubic feet) actually would be optimum for an enclosure volume of 99 liters (3.5 cubic feet). The port dimensions for the enclosure drawings in the JBL Enclosure Construction Kit have been optimized for those specific enclosure volumes and configurations and, therefore, may not agree with the information in this chart.
- Enclosure volume can be calculated by multiplying internal length x width x depth. If the measurements are taken in inches, divide by 1728 (the number of cubic inches in a cubic foot) to obtain internal volume in cubic feet.
- Duct length is measured from the baffle surface to the end of the duct, and thus includes the thickness of the baffle panel.
- Port area may be converted to diameter using the formula $A = \pi r^2$. The diameters given in the table below are inside dimensions. The baffle panel should be cut to accommodate the outside diameter of the tube used.

Port Area	Diameter	
	Square Inches	Inches Millimetres
3	2	50
7	3	80
10	3 1/2	90
13	4	100
26	5 1/4	150
40	7 1/4	180
50	8	200
80	10	260
95	11	280
115	12	310

- Multiple ports may be used, but the total area (not diameter) must equal the area specified. Divide the area by the number of ports to be used, then calculate diameter. Even though multiple ports are used, duct length for each should be as specified in the chart.
- Refer to the literature enclosed with passive radiators for tuning instructions.

BAFFLE BOARDS FOR THE 3.75 CU. FT. MUSICAL INSTRUMENT ENCLOSURE



(A) BAFFLE FOR 3.75 CU. FT. ENCLOSURE

- (1) K130 2 PORTS - 4 3/8" DIA. X 5" LONG (111 MM X 127 MM)
- (1) K140 2 PORTS - 4 3/8" DIA. X 2" LONG (111 MM X 51 MM)
- (1) K145 2 PORTS - 4 3/8" DIA. X 5" LONG (111 MM X 127 MM)
- (1) K151 2 PORTS - 4 3/8" DIA. X 7" LONG (111 MM X 178 MM)

(B) BAFFLE FOR 3.75 CU. FT. ENCLOSURE

- (2) K110 1 PORT - 4 3/8" DIA. X 2" LONG (111 MM X 51 MM)
- (2) K120 1 PORT - 4 3/8" DIA. X 2" LONG (111 MM X 51 MM)

(C) BAFFLE FOR 5.75 CU. FT. ENCLOSURE

- (2) K130 2 PORTS - 4 3/8" DIA. X 5" LONG (111 MM X 127 MM)
- (2) K140 2 PORTS - 4 3/8" DIA. X 5" LONG (111 MM X 127 MM)
- (2) K145 2 PORTS - 4 3/8" DIA. (111 MM) NO DUCT
- (2) K151 2 PORTS - 4 3/8" DIA. X 7" LONG (111 MM X 178 MM)

(D) BAFFLE FOR 5.75 CU. FT. ENCLOSURE

- (4) K110 2 PORTS - 4 3/8" DIA. (111 MM) NO DUCT
- (4) K120 2 PORTS - 4 3/8" DIA. (111 MM) NO DUCT

NOTES:-

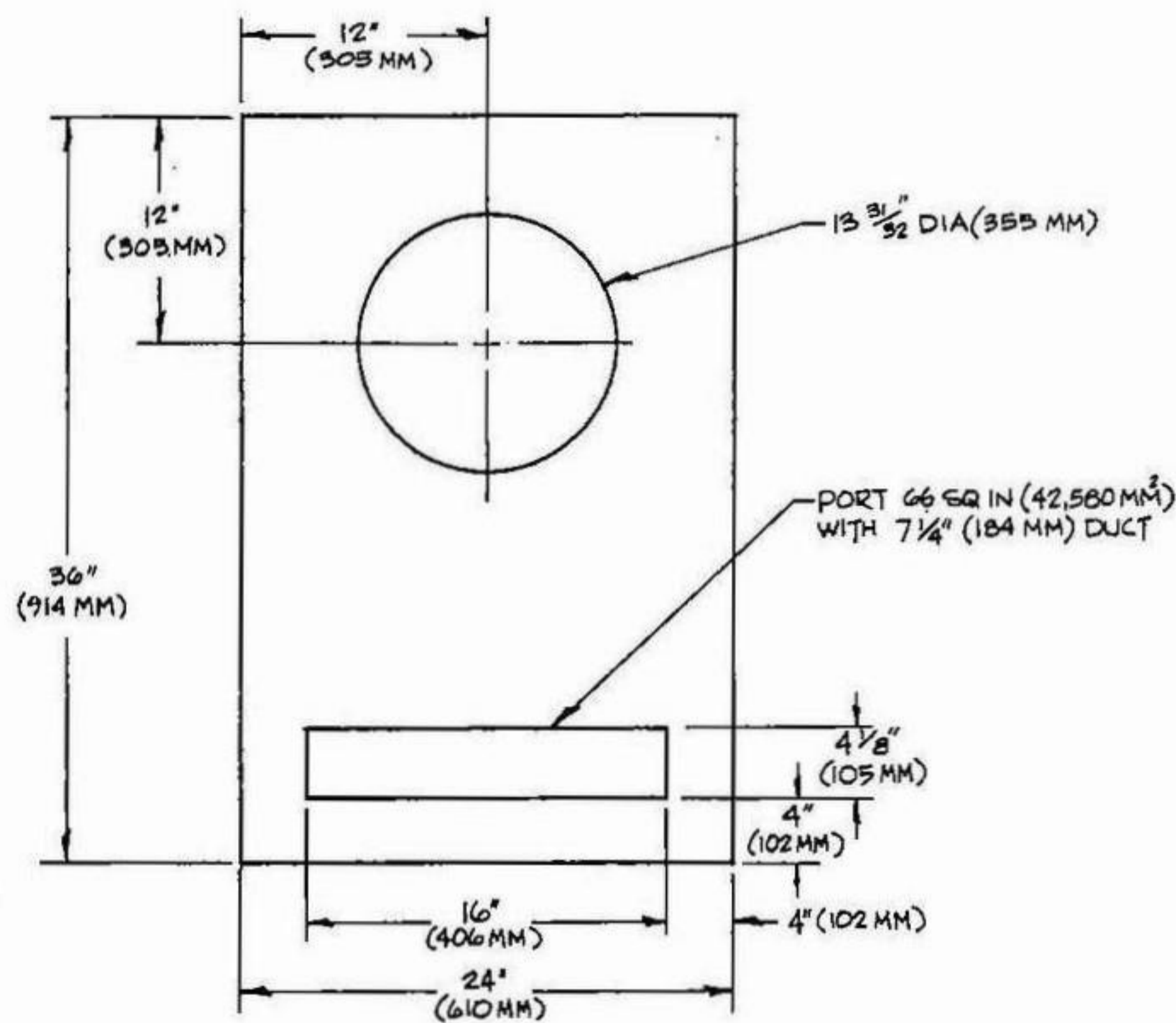
- ALL BOARDS ARE MADE FROM 3/4" (19 MM) VOID-FREE PLYWOOD OR HIGH DENSITY PARTICLE BOARD (CHIPBOARD)
- WHEN INSERTING BAFFLE BOARD INTO ENCLOSURE, USE 1/2" LONG FLATHEAD WOODSCREWS EVERY 5 INS. MAKE SURE BAFFLE IS SEALED TO ENCLOSURE WITH GLUE OR FOAM TAPE.
- BOARDS FOR 18", 15", 12", 10" SPEAKERS.
- IF THE 2901 UNIT IS NOT USED, HOLE MUST BE BLOCKED OR OMITTED.
- PORT/TUBE IS STANDARD SIZE PVC OR ABS PLASTIC PLUMBING PIPE.

BAFFLE BOARDS FOR THE 5.75 CU. FT. MUSICAL INSTRUMENT ENCLOSURE

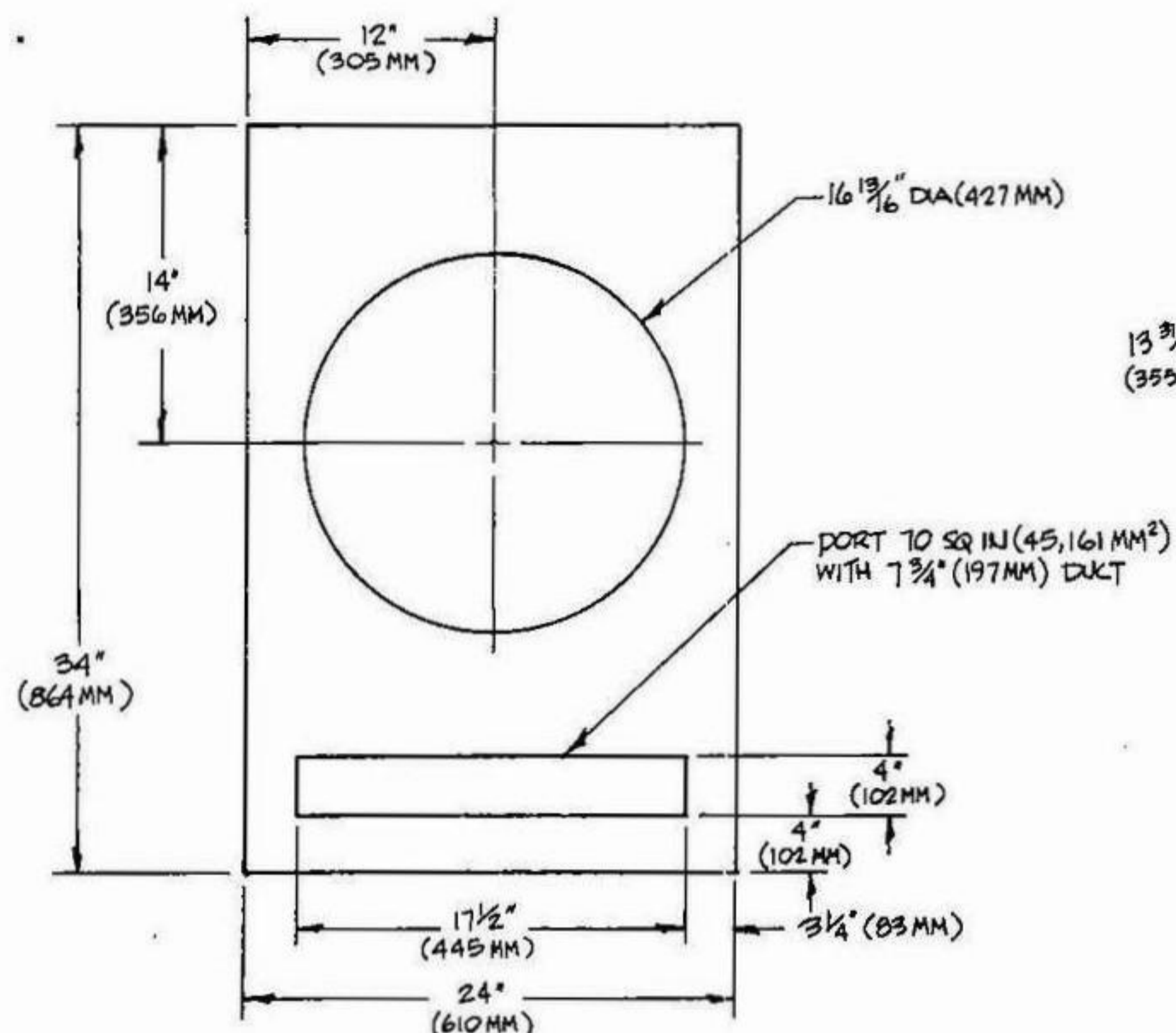
JBL JAMES B. LANSING, INC.
Northridge, California 91329

TITLE:
3.75 AND 5.75 CUBIC FEET, BAFFLE BOARDS FOR
MUSICAL INSTRUMENT LOUDSPEAKER SYSTEMS

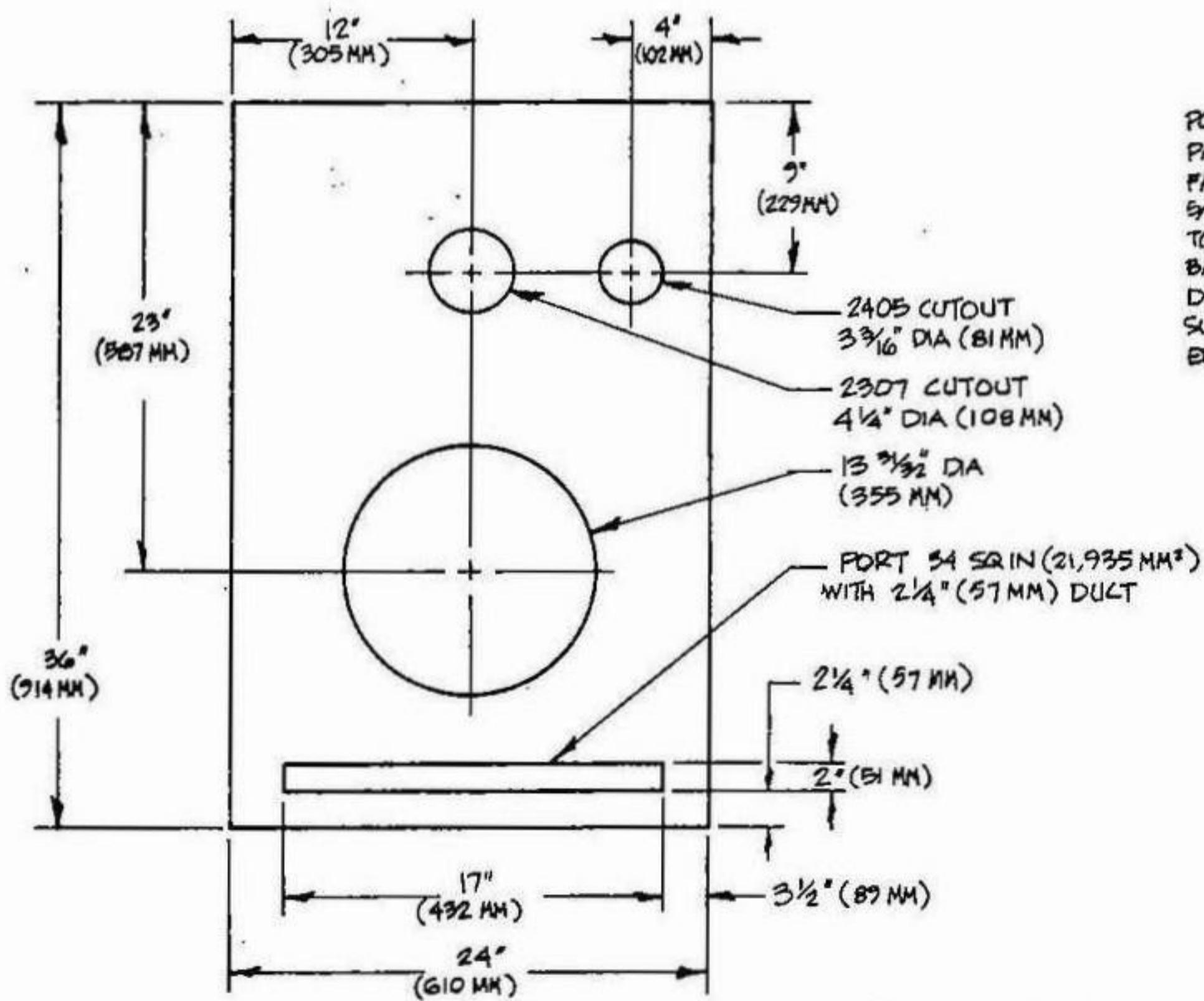
SHEET | OF |
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND MILLIMETERS



8 CUBIC FEET, BAFFLE FOR K145.
ENCLOSURE INSIDE DIMENSIONS 36" x 24" x 16"
(914 MM x 610 MM x 406 MM)

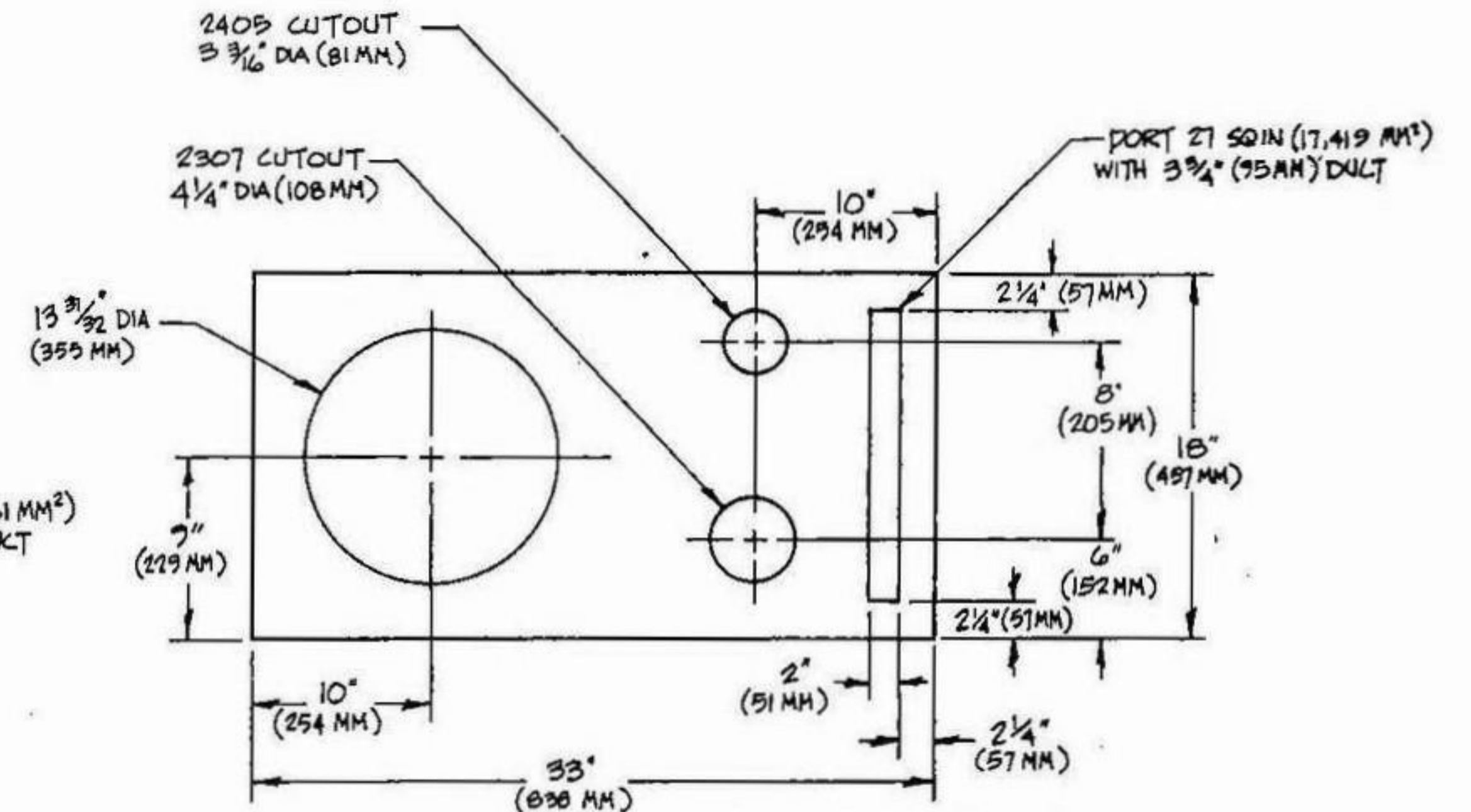
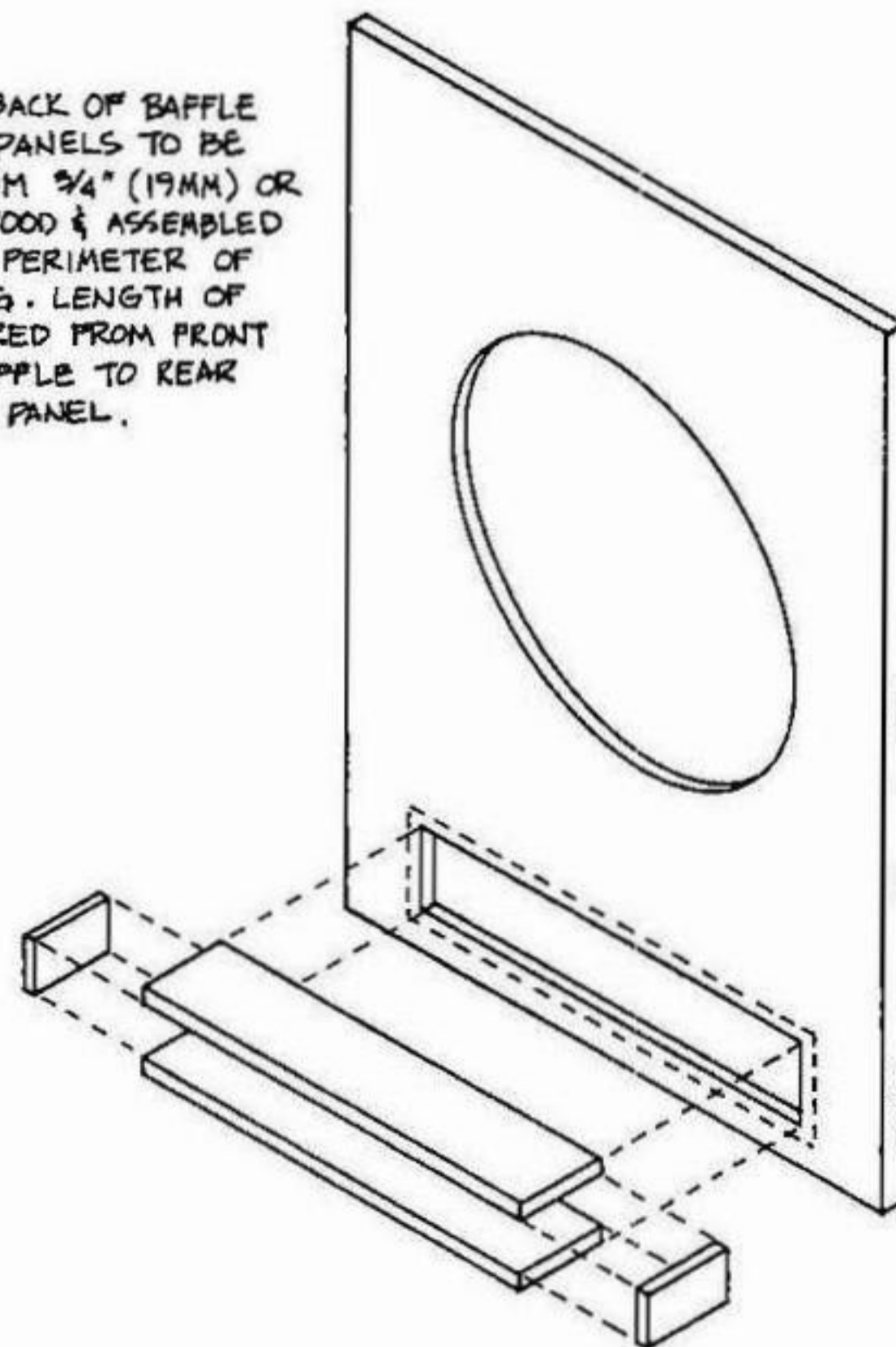


8 CUBIC FEET, BAFFLE FOR K151.
ENCLOSURE INSIDE DIMENSIONS 36" x 21" x 16"
(914 MM x 610 MM x 406 MM)

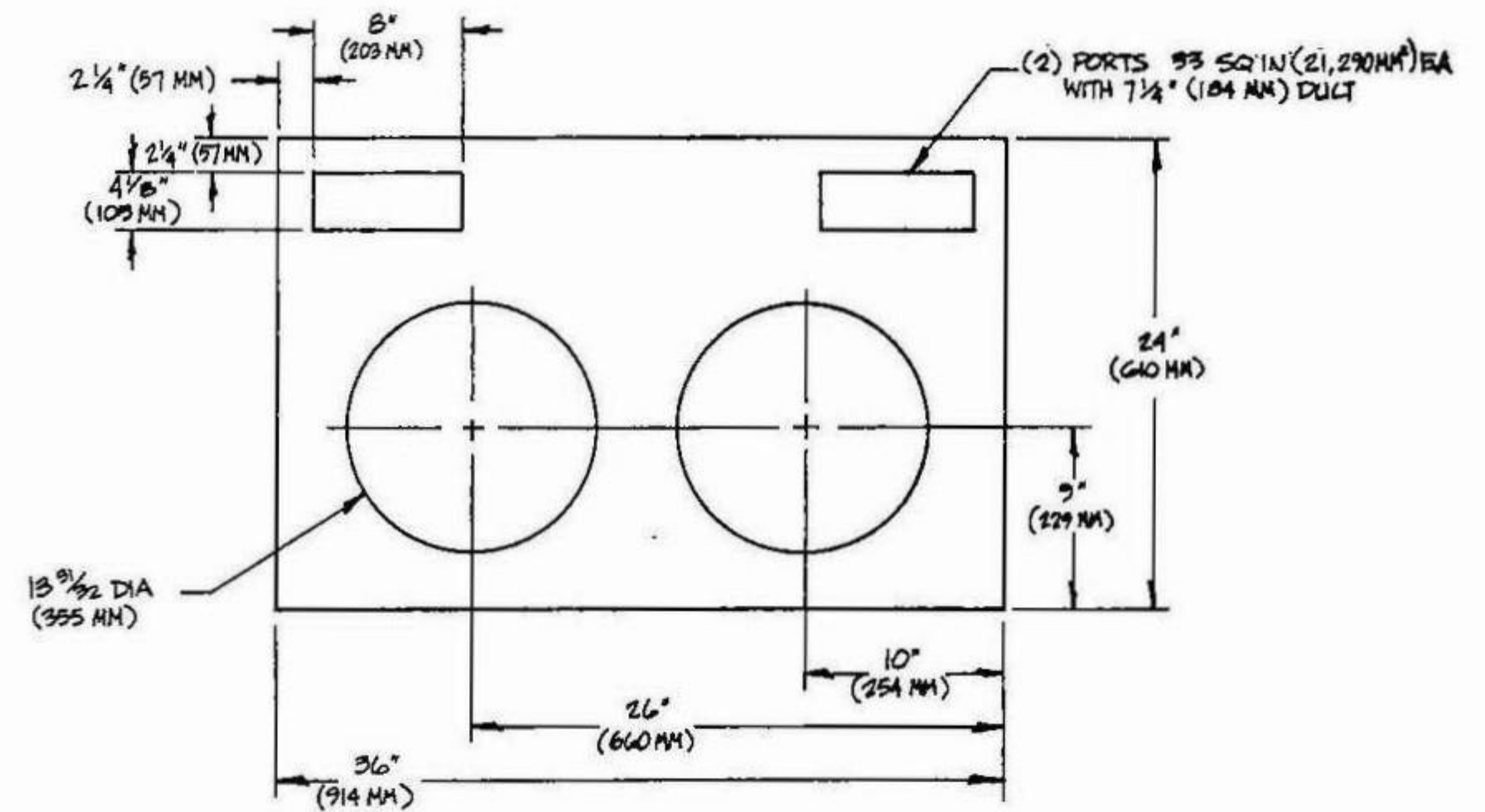


8 CUBIC FEET, BAFFLE FOR K145, 2307, 2308, 2461 OR 2470 & 2402 OR 2407
ENCLOSURE INSIDE DIMENSIONS 36" x 24" x 16"
(914 MM x 610 MM x 406 MM)

PORT DETAIL (BACK OF BAFFLE PANEL) - DUCT PANELS TO BE FABRICATED FROM 3/4" (19MM) OR 5/8" (16MM) PLYWOOD & ASSEMBLED TO ENCLOSURE PERIMETER OF BAFFLE OPENING. LENGTH OF DUCT IS MEASURED FROM FRONT SURFACE OF BAFFLE TO REAR EDGE OF DUCT PANEL.



5 CUBIC FEET, BAFFLE FOR 2205, 2307, 2308, 2461, 2470, 2405.
ENCLOSURE INSIDE DIMENSIONS 33" x 18" x 14 1/2"
(838 MM x 457 MM x 368 MM)



8 CUBIC FEET, BAFFLE FOR (2) K145, (2) K140 OR (2) 2205.
ENCLOSURE INSIDE DIMENSIONS 36" x 24" x 16"
(914 MM x 610 MM x 406 MM)

JBL JAMES B. LANSING, INC.
Northridge, California 91329

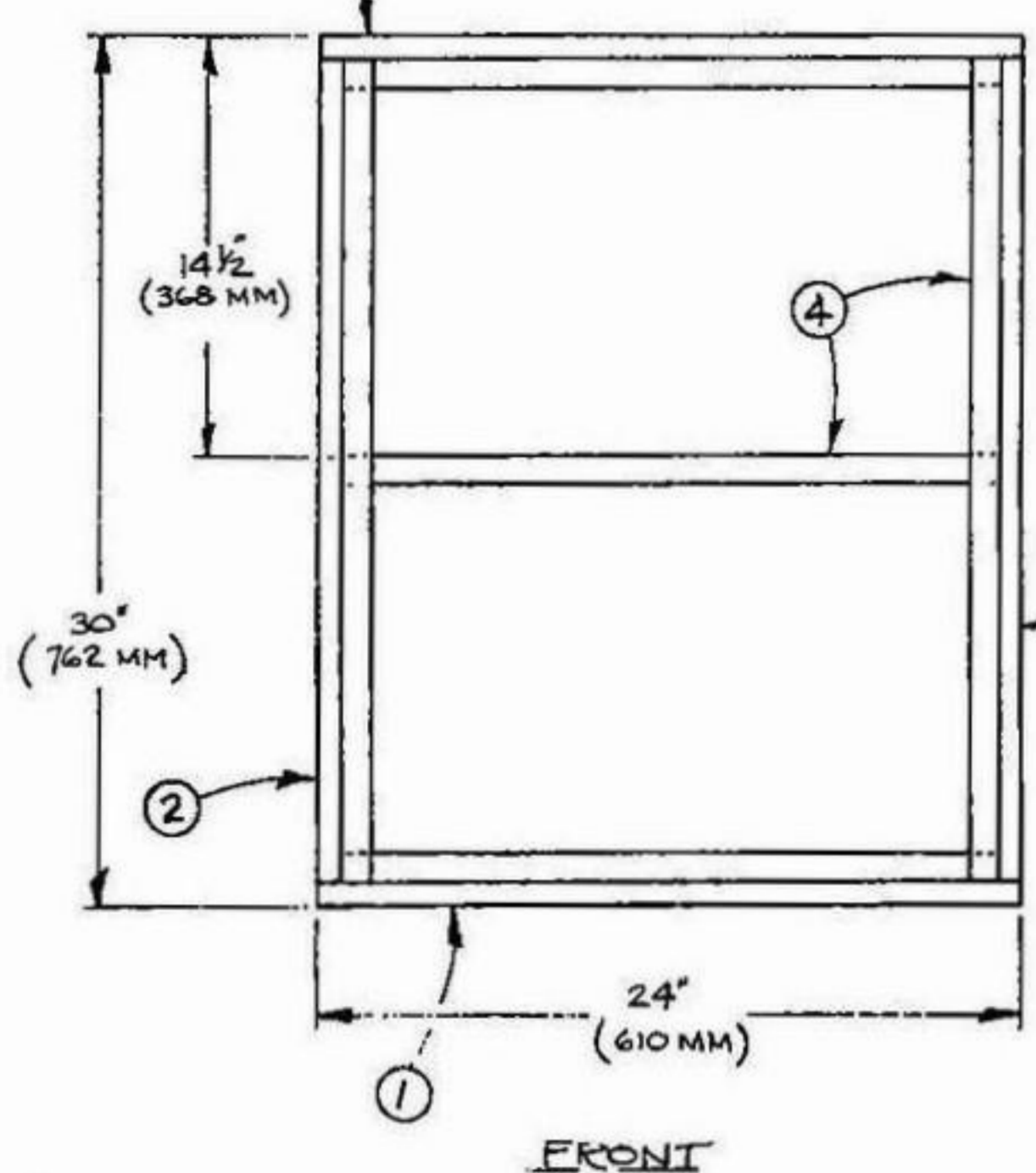
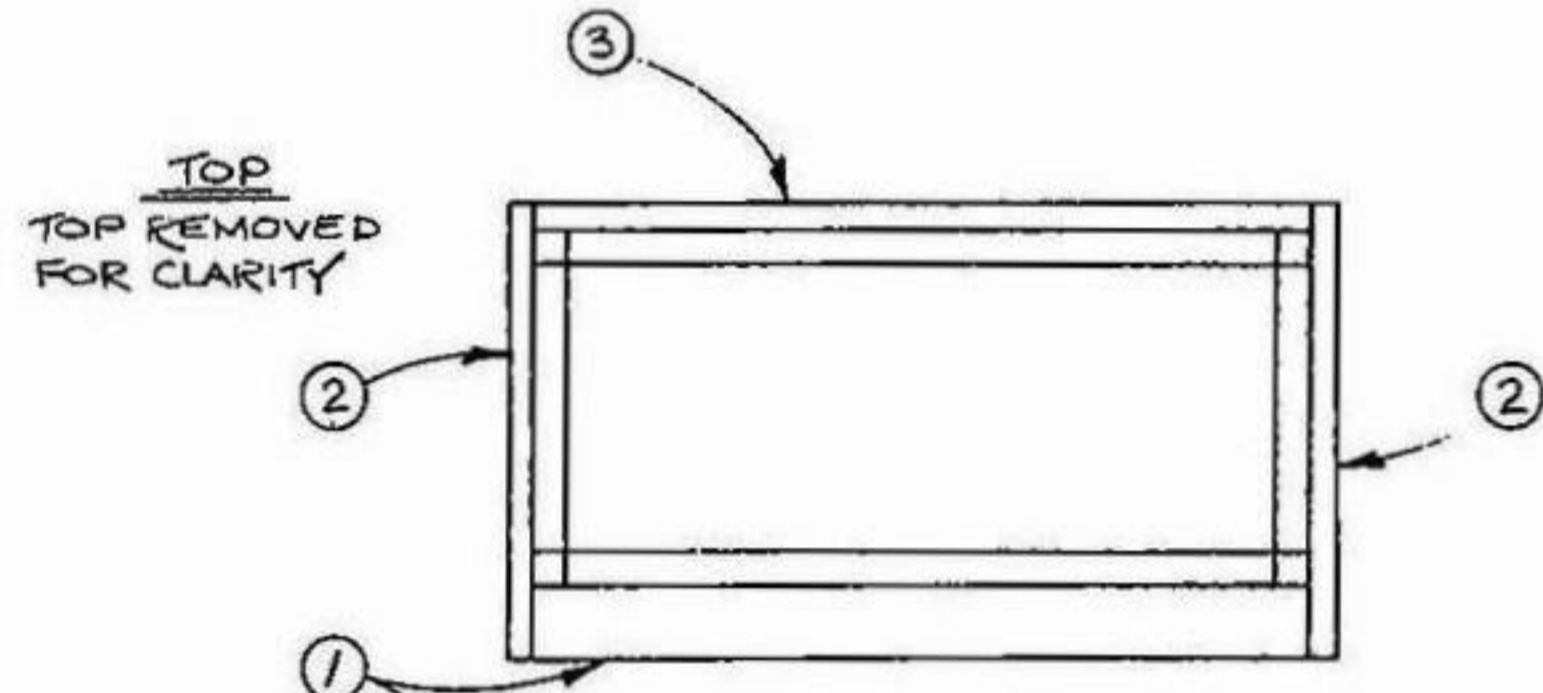
TITLE BAFFLE PANELS FOR 8 AND 5 CUBIC FEET
ENCLOSURES USING JBL MUSICAL INSTRUMENT
AND PROFESSIONAL SERIES BASS DRIVERS.

SHEET 1 OF 1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND MILLIMETERS

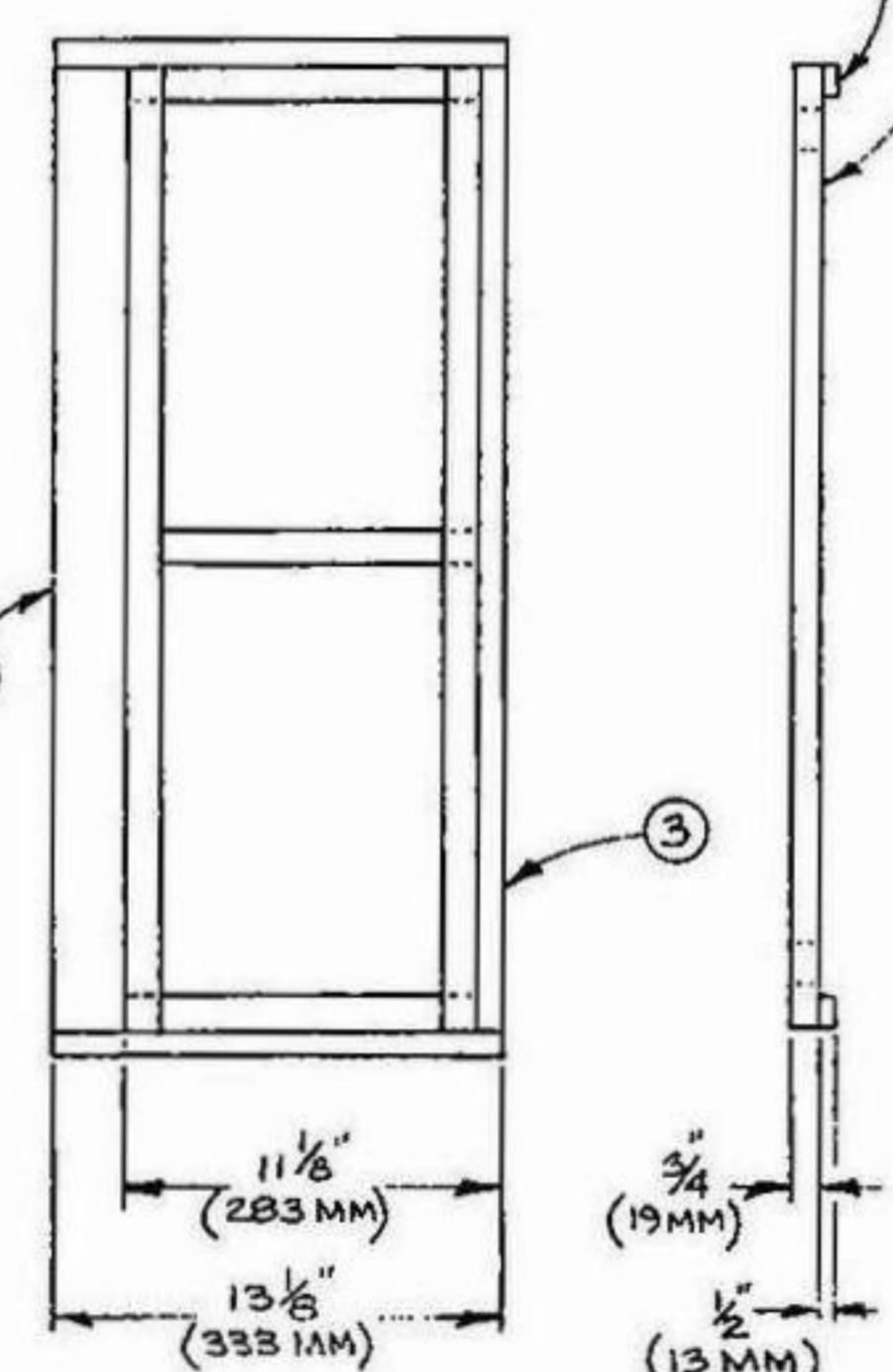
NOTES:-

- ALL PARTS SHOULD BE GLUED AND SCREWED. SCREWS SHOULD BE APPROX. EVERY 5 INS. (127MM)
- A SOUND ABSORBING MATERIAL, SUCH AS FIBERGLASS SHOULD BE GLUED OR STAPLED SO THAT IT COVERS THE INSIDE OF THE ENCLOSURE. THE MATERIAL SHOULD BE APPROX. 1" (25 MM) THICK AND SHOULD NOT BLOCK ANY PORT OPENINGS.
- BAFFLE WILL INSET IN FRONT. GLUE AND SCREW IN PLACE.
- ALL ENCLOSURE PARTS ARE CUT FROM 3/4" (19 MM) VOID-FREE PLYWOOD, OR HIGH DENSITY PARTICLE BOARD (CHIPBOARD).
- SPACER TO BE INSTALLED ON GRILLE FRAME AFTER GRILLE CLOTH IS PUT ON.

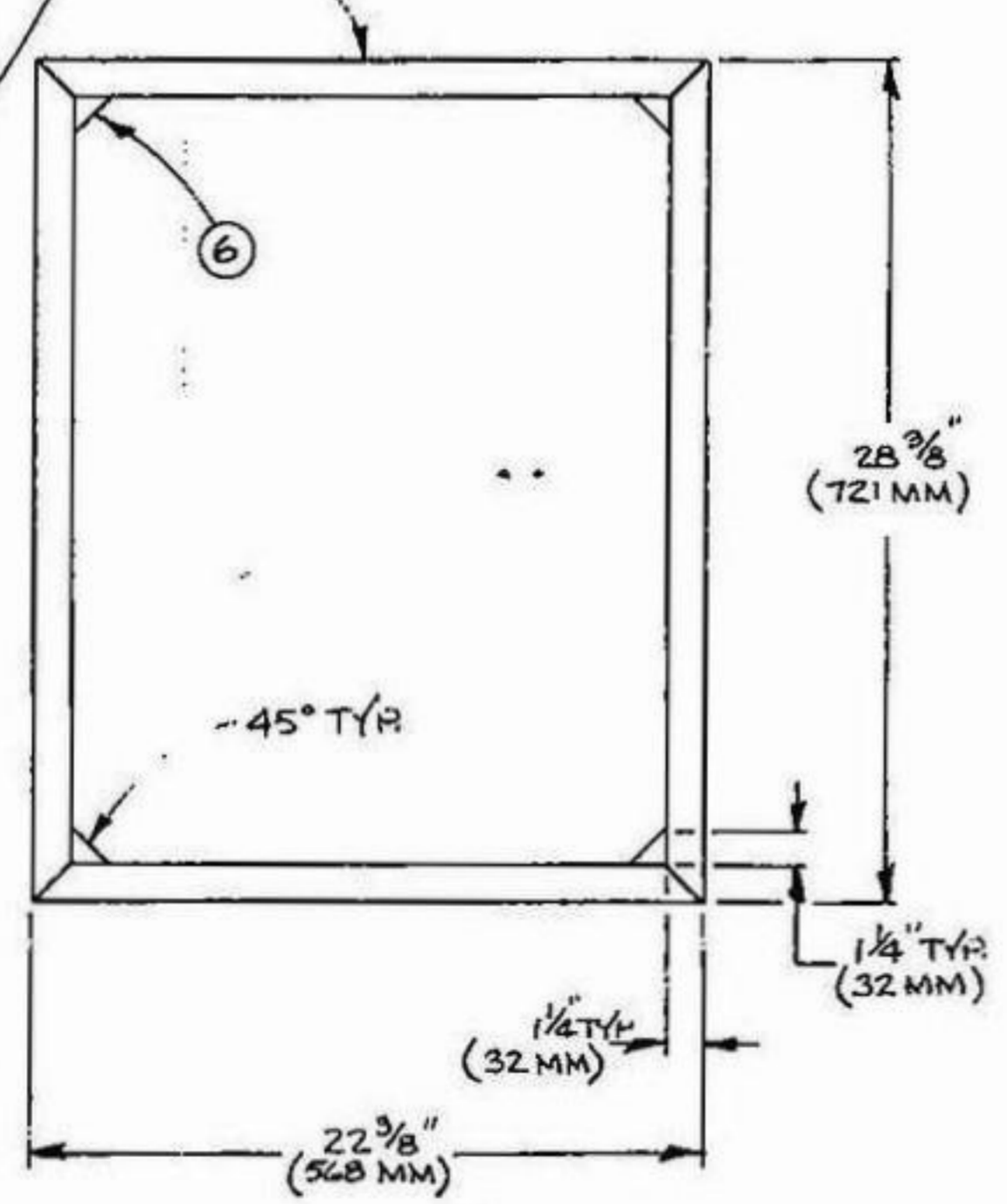
ITEM	SIZE
① TOP & BOTTOM	24" X 13 1/8" (610 X 333 MM)
② SIDES	28 1/2" X 13 1/8" (724 X 333 MM)
③ BACK	28 1/2" X 22 1/2" (724 X 572 MM)
④ CLEATS	1 X 1" NET (25 X 25 MM) PINE THROUGHOUT
⑤ GRILLE FRAME	1 1/4" X 3/4" (32 X 19 MM) PINE
⑥ CORNERS	1/4" X 1/4" X 3/4" (32 X 32 X 19 MM) PINE
⑦ BAFFLE BOARD	3/4" X 28 3/8" X 22 3/8" (19 X 721 X 568 MM)
⑧ SPACER	1/2" X 1" X 1" (13 X 25 X 25 MM)



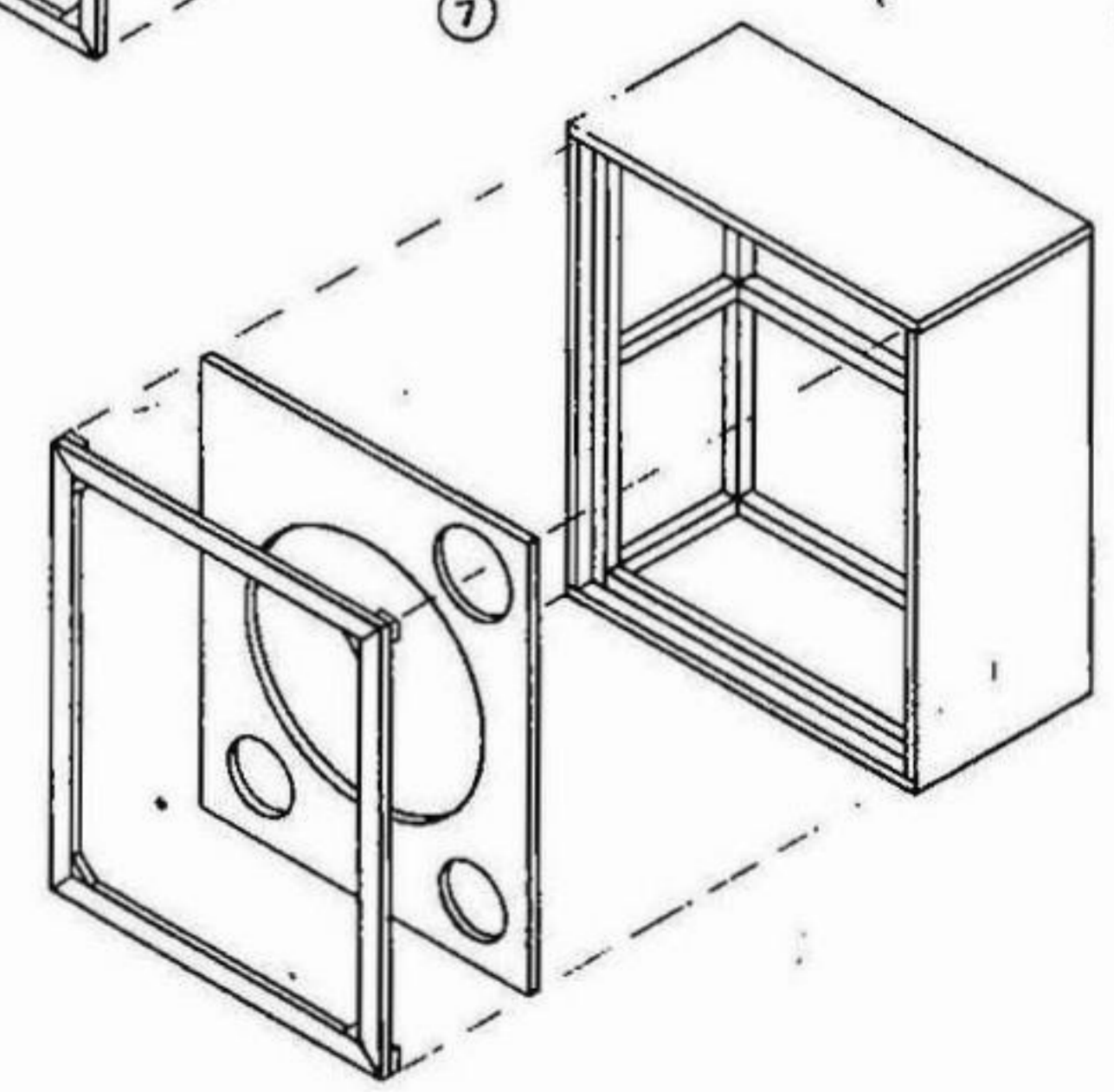
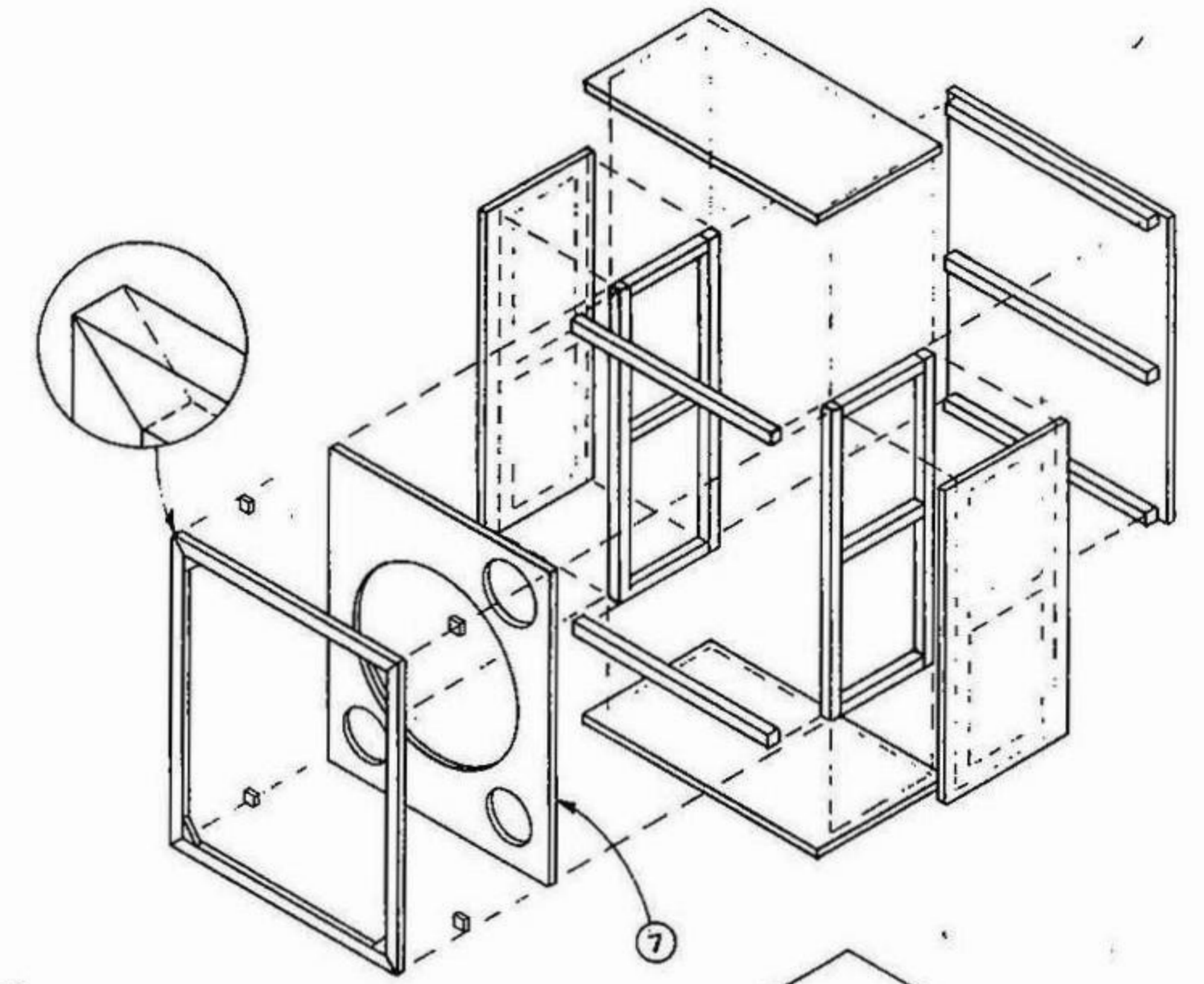
FRONT



SIDE
SIDE REMOVED FOR CLARITY



GRILLE FRAME ASS'Y



JBL JAMES B. LANSING, INC.,
Northridge, California 91329

TITLE: 3.75 CUBIC FEET ENCLOSURE FOR MUSICAL INSTRUMENT LOUSPEAKER SYSTEMS

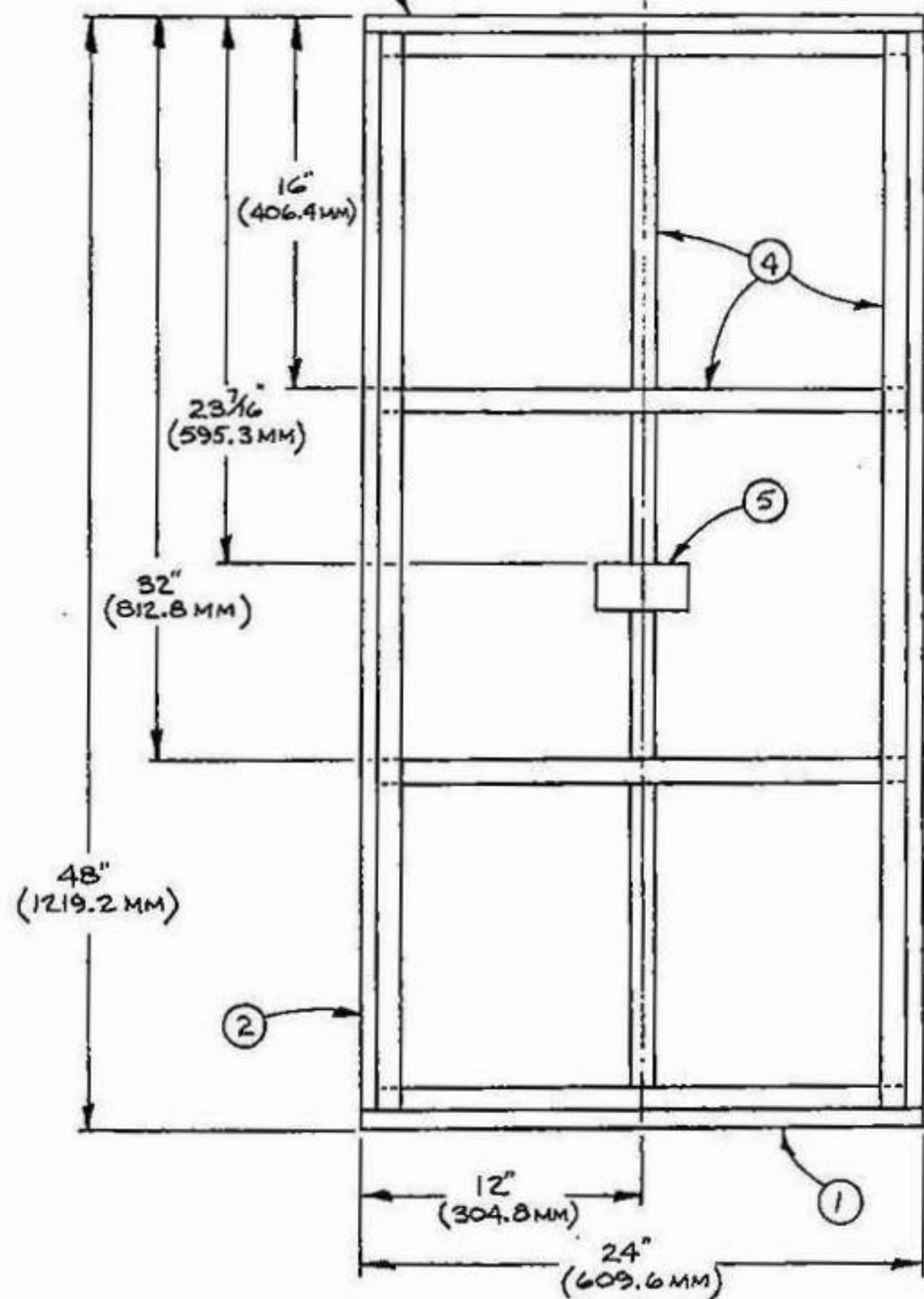
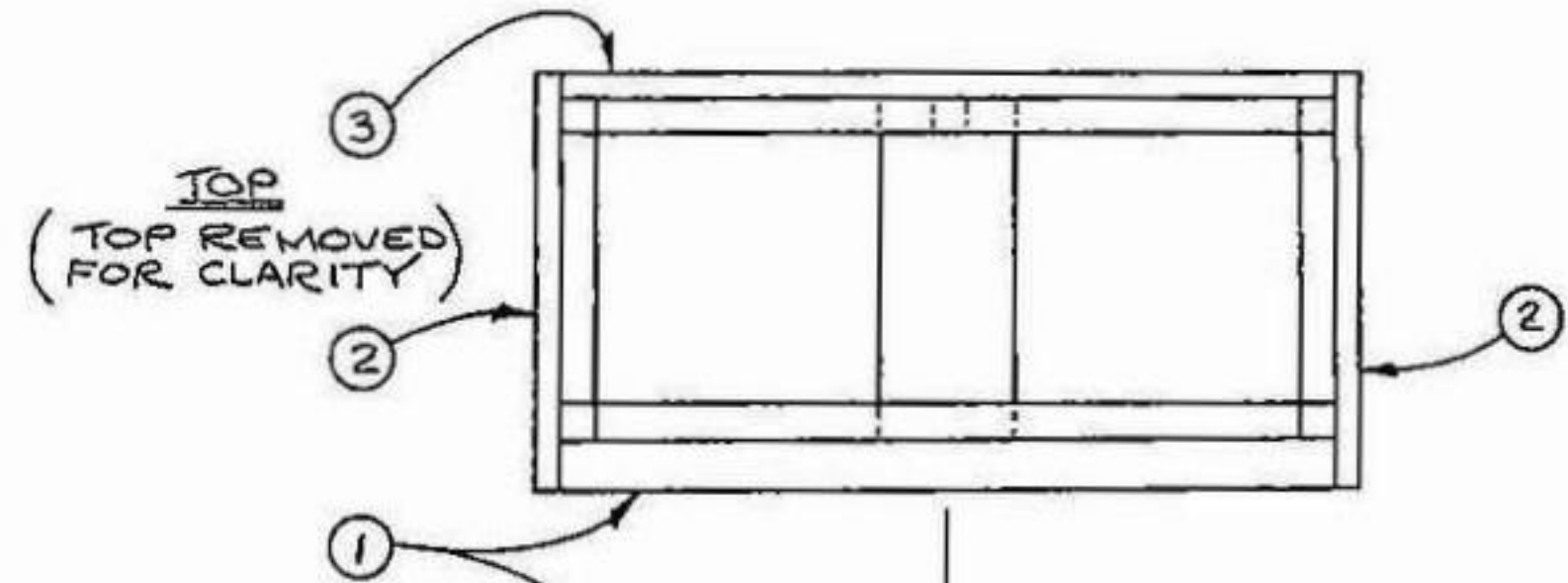
SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND MILLIMETERS

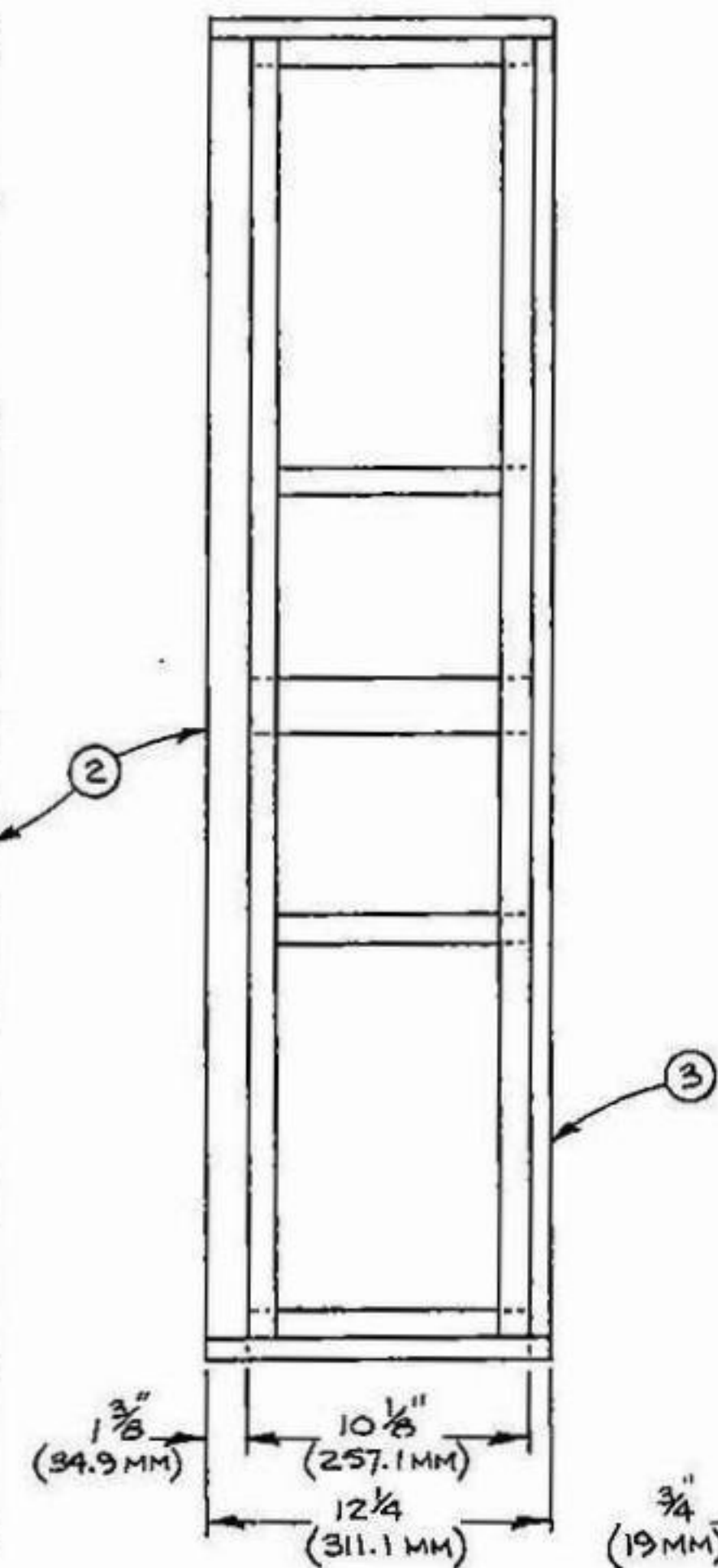
NOTES:-

- ALL PARTS SHOULD BE GLUED AND SCREWED. SCREWS SHOULD BE APPROX. EVERY 5 INCHES.
- A SOUND ABSORBING MATERIAL, SUCH AS FIBERGLASS SHOULD BE GLUED OR STAPLED SO THAT IT COVERS THE INSIDE OF THE ENCLOSURE. THE MATERIAL SHOULD BE APPROX. 1" THICK AND SHOULD NOT BLOCK ANY PORT OPENINGS.
- BAFFLE WILL INSET IN FRONT. GLUE AND SCREW IN PLACE.
- ALL ENCLOSURE PARTS ARE CUT FROM 3/4" (19.0MM) VOID-FREE PLYWOOD, OR HIGH DENSITY PARTICLE BOARD (CHIPBOARD).

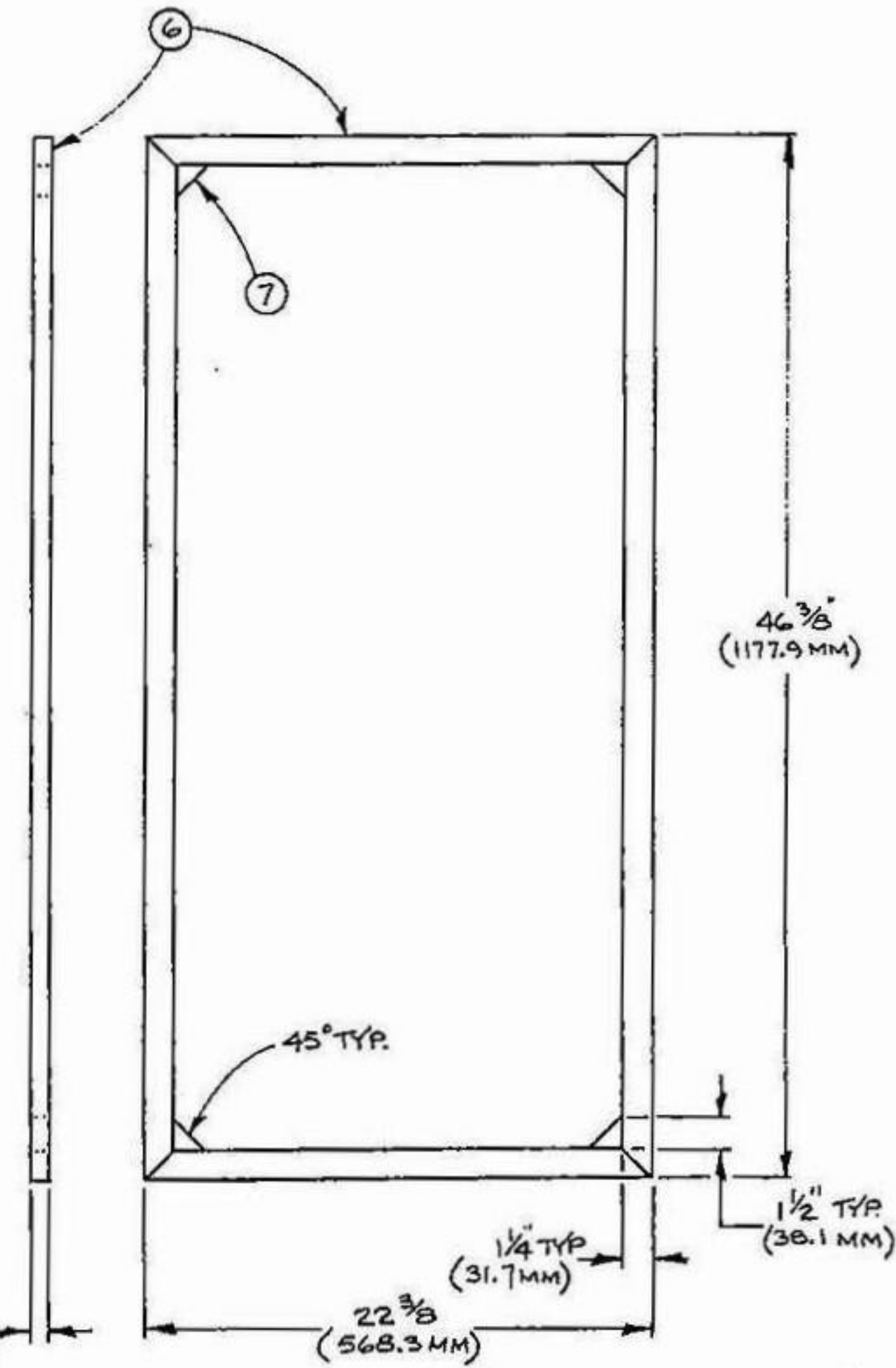
ITEM	SIZE
① TOP & BOTTOM	24" x 12 1/4" (609.6 x 311.1MM)
② SIDES	46 1/2" x 12 1/4" (1181.1 x 311.1MM)
③ BACK	46 1/2" x 22 1/2" (1181.1 x 571.5MM)
④ CLEATS	1" x 1" NET (25.4 x 25.4 MM) PINE THROUGHOUT
⑤ FRONT TO BACK BRACE	2" x 4" (50.8 x 101.6 MM) PINE
⑥ GRILLE FRAME	3/4" x 1 1/4" (19 x 31.7 MM) PINE
⑦ CORNERS	3/4" x 1 1/2" x 1 1/2" (19 x 38.1 x 38.1 MM) PINE
⑧ BAFFLE BOARD	3/4" x 22 1/2" x 46 1/2" (19 x 571.5 x 1181.1 MM)



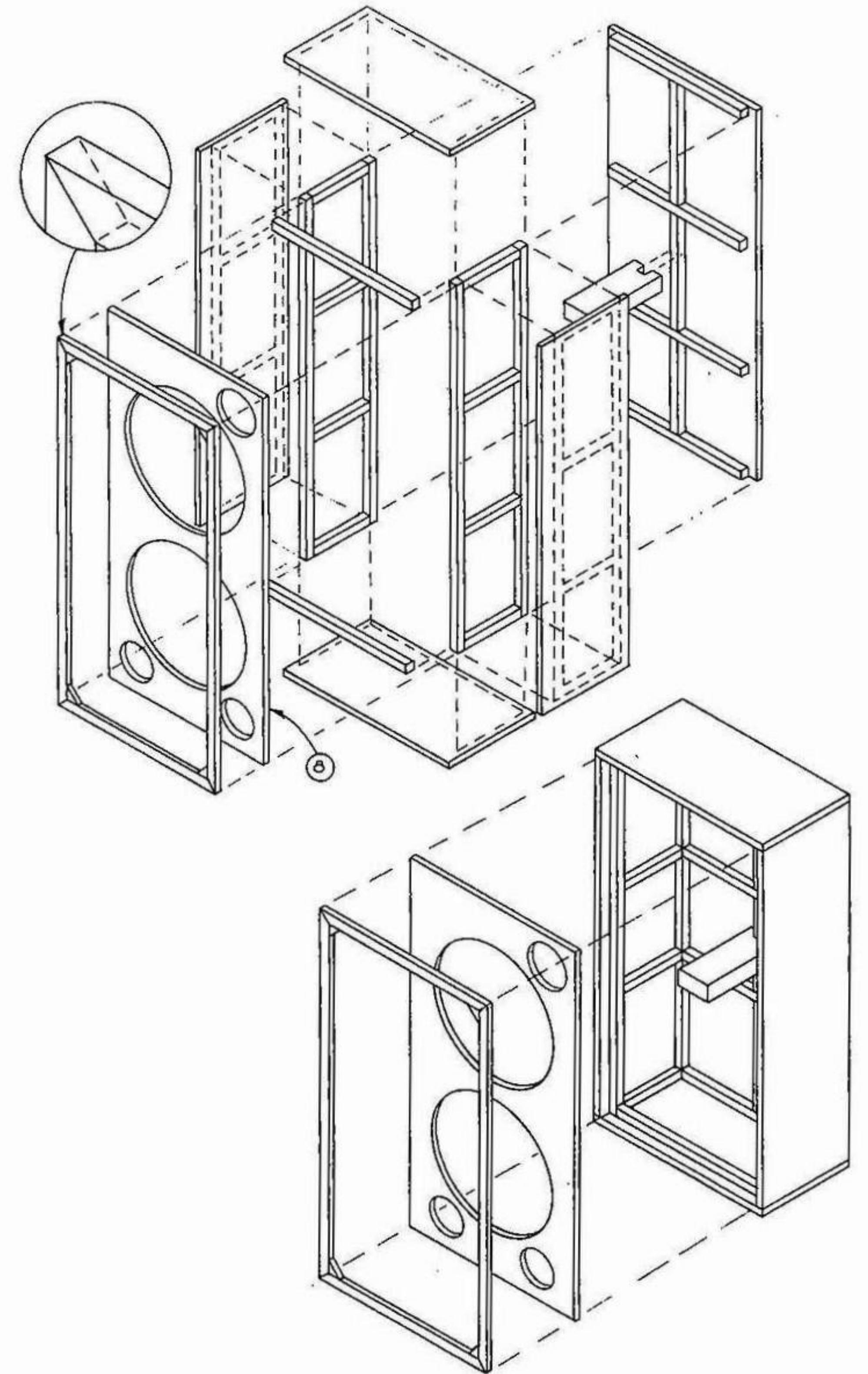
FRONT



SIDE (SIDE REMOVED FOR CLARITY)



GRILLE FRAME ASSY



DRAWN:	<i>DG</i>
CHECK:	<i>LH</i>
DESIGN:	<i>dsj</i>
ENGINEER:	<i>SK</i>
APPROVED:	<i>B</i>

JBL	JAMES B. LANSING SOUND, INC. Los Angeles, California 90039		
	TITLE: 5.75 CUBIC FEET, ENCLOSURE FOR MUSICAL INSTRUMENT LOUDSPEAKER SYSTEMS		
SHEET	1	OF	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND MILLIMETERS			

JBL Enclosure Porting Chart

Musical Instrument Loudspeakers

MODEL	INTERNAL VOLUME Cubic Feet Liters	3.0 - 3.5 84 - 99	3.6 - 4.0 100 - 113	4.1 - 4.5 114 - 128	4.6 - 5.0 129 - 141	5.1 - 5.5 142 - 155	5.6 - 6.0 156 - 169	6.1 - 6.5 170 - 185	6.6 - 7.0 186 - 197	7.1 - 7.5 198 - 212	7.6 - 8.0 213 - 225	8.1 - 8.5 226 - 240	8.6 - 9.0 241 - 253	9.1 - 9.5 254 - 269	9.6 - 10.0 270 - 281
K110		18 sq. in. 103 cm ²	20 sq. in. 129 cm ²	28 sq. in. 181 cm ²	36 sq. in. 232 cm ²										
K120		16 sq. in. 103 cm ²	20 sq. in. 129 cm ²	28 sq. in. 181 cm ²	36 sq. in. 232 cm ²	40 sq. in. 258 cm ²	45 sq. in. 290 cm ²								
K130		16 sq. in. 103 cm ²	20 sq. in. 129 cm ²	28 sq. in. 181 cm ²	36 sq. in. 232 cm ²	40 sq. in. 258 cm ²	45 sq. in. 290 cm ²	54 sq. in. 348 cm ²	58 sq. in. 374 cm ²	65 sq. in. 419 cm ²	72 sq. in. 465 cm ²				
K140		10 sq. in. 65 cm ²	18 sq. in. 116 cm ²	21 sq. in. 135 cm ²	24 sq. in. 155 cm ²	26 sq. in. 168 cm ²	28 sq. in. 181 cm ²	30 sq. in. 194 cm ²	32 sq. in. 206 cm ²	35 sq. in. 226 cm ²	38 sq. in. 245 cm ²				
K145		10 sq. in. 65 cm ²	18 sq. in. 116 cm ²	21 sq. in. 135 cm ²	24 sq. in. 155 cm ²	26 sq. in. 168 cm ²	28 sq. in. 181 cm ²	30 sq. in. 194 cm ²	32 sq. in. 206 cm ²	35 sq. in. 226 cm ²	38 sq. in. 245 cm ²				
K151		10 sq. in. 65 cm ²	18 sq. in. 116 cm ²	21 sq. in. 135 cm ²	24 sq. in. 155 cm ²	26 sq. in. 168 cm ²	28 sq. in. 181 cm ²	30 sq. in. 194 cm ²	32 sq. in. 206 cm ²	35 sq. in. 226 cm ²	38 sq. in. 245 cm ²	40 sq. in. 258 cm ²	42 sq. in. 271 cm ²	45 sq. in. 290 cm ²	50 sq. in. 323 cm ²

Notes

- Porting information contained in this chart will provide the most uniform extended low frequency response. Some variation in port area may be necessary to obtain the particular sound you desire.
- Enclosure volume can be calculated by multiplying internal length x width x depth. If the measurements are taken in inches, divide by 1728 (the number of cubic inches in a cubic foot) to obtain internal volume in cubic feet.
- Port area may be converted to diameter using the formula $A = 0.25 \pi D^2$. Multiple ports may be used, but the total area (not diameter) must equal the area specified. Divide the area by the number of ports to be used, then calculate diameter.
- If two loudspeakers are used enclosure volume and port area should approximately double.

Wire Chart

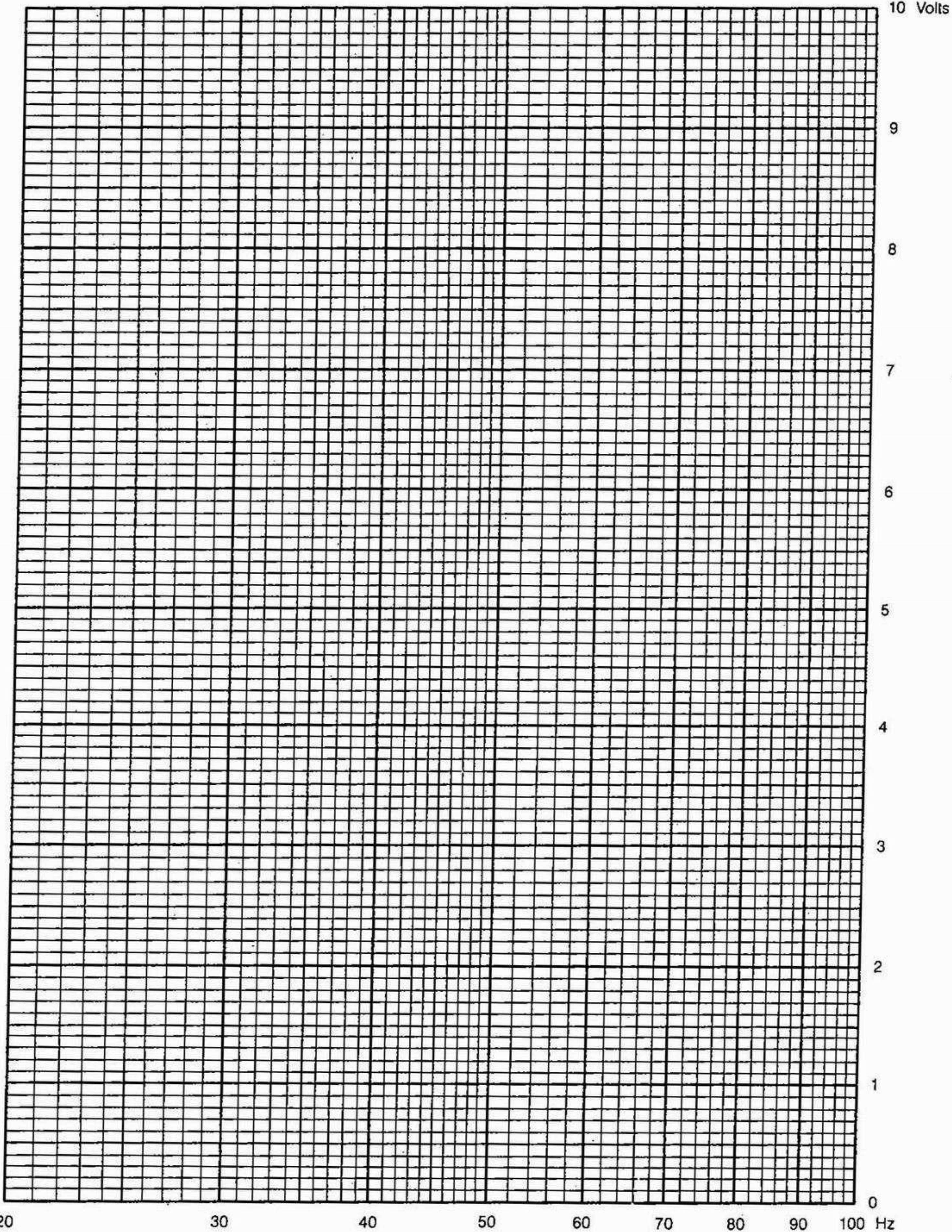
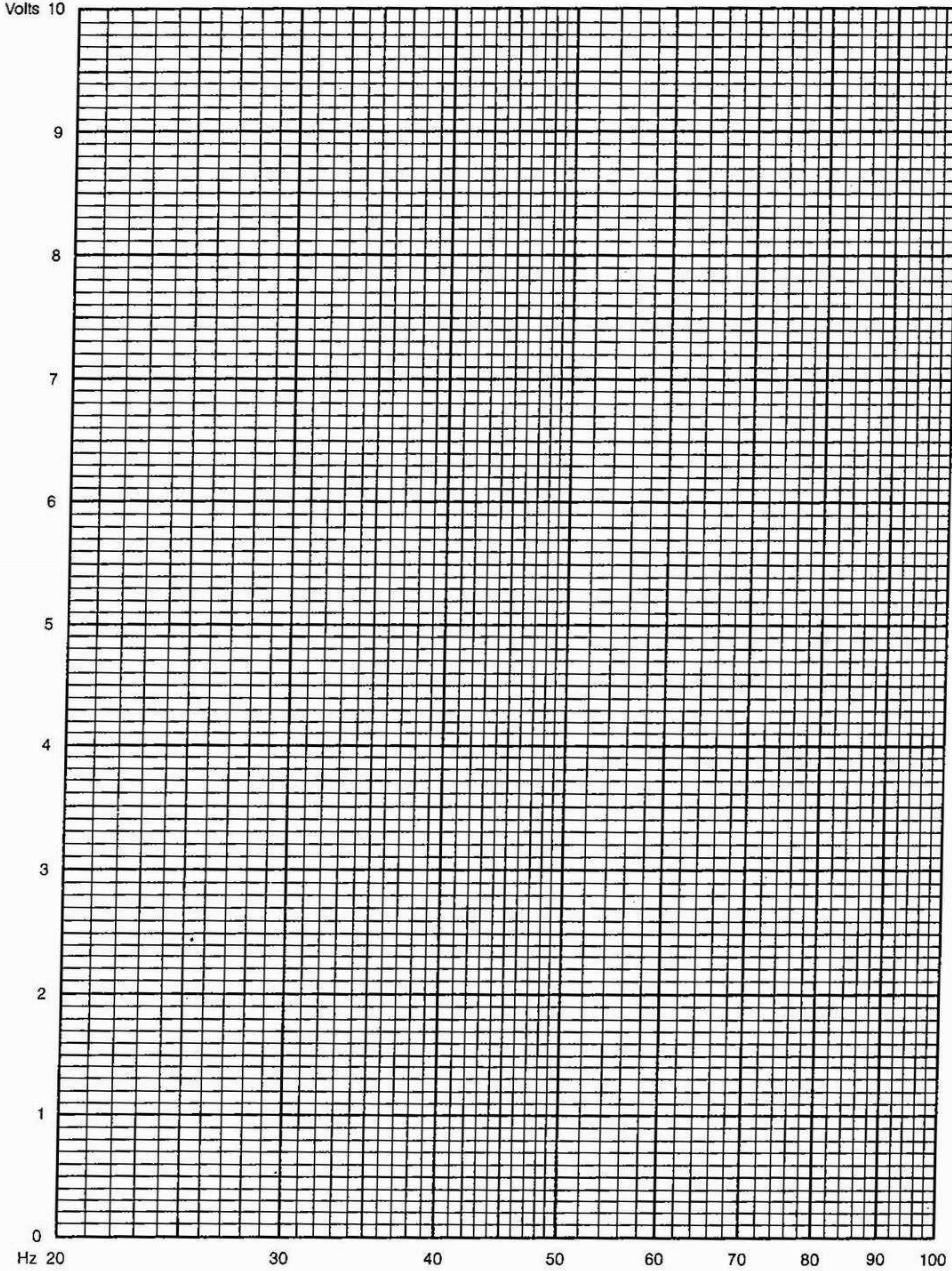
Home High Fidelity Loudspeaker Systems

distance	impedance		
	4 Ω	8 Ω	16 Ω
0 - 15 m (0 - 50 ft)	16 AWG	18 AWG	20 AWG
15 - 30 m (50 - 100 ft)	14 AWG	16 AWG	18 AWG
30 - 60 m (100 - 200 ft)	12 AWG	14 AWG	16 AWG

Musical Instrument Loudspeaker Systems

distance	impedance		
	4 Ω	8 Ω	16 Ω
0 - 15 m (0 - 50 ft)	14 AWG	16 AWG	18 AWG
15 - 30 m (50 - 100 ft)	12 AWG	14 AWG	16 AWG
30 - 60 m (100 - 200 ft)	10 AWG	12 AWG	14 AWG

JBL Port Tuning Work Sheet



Recommended Tuning Frequency For JBL Loudspeakers

Model	Description	Enclosure Tuning Frequency
124A 136A	300-mm (12 in) low frequency 380-mm (15 in) low frequency	26 Hz
LF8T LE10A LE12C LE14A LE14C LF15A	200 mm (8 in) full range 250-mm (10 in) low frequency 300-mm (12 in) composite 360-mm (14 in) low frequency 380-mm (14 in) composite 380-mm (15 in) low frequency	32 Hz
D123 D131 D130 130A, 130B	300-mm (12 in) extended range 300-mm (12 in) extended range 380-mm (15 in) extended range 380-mm (15 in) low frequency	45 Hz
D208	200 mm (8 in) extended range	55 Hz

If system tuning is higher than recommended for the loudspeaker, cover a portion of the port or lengthen the duct, if one is used. Conversely, if system tuning is lower than recommended, make the port larger or shorten the duct. When tuning a passive radiator, begin with fewer tuning weights than recommended for the enclosure volume. Add weights if system tuning is higher than recommended, remove weights if the system tuning is lower than desired. A passive radiator can be temporarily mounted "inside out" so the tuning weights are easily accessible. Additional washers used in conjunction with the weights supplied will aid in obtaining precise tuning.

Recommended Tuning Frequency For JBL Loudspeakers

Model	Description	Enclosure Tuning Frequency
124H 136H	300 mm (12 in) low frequency 380 mm (15 in) low frequency	26 Hz
LE8T-H LE10H LE14H LE15H	200 mm (8 in) full range 250 mm (10 in) low frequency 360 mm (14 in) low frequency 380 mm (15 in) low frequency	32 Hz
D130H 130H	380 mm (15 in) extended range 380 mm (15 in) low frequency	45 Hz
D208H	200 mm (8 in) extended range	55 Hz

If system tuning is higher than recommended for the loudspeaker, cover a portion of the port or lengthen the duct, if one is used. Conversely, if system tuning is lower than recommended, make the port larger or shorten the duct. When tuning a passive radiator, begin with fewer tuning weights than recommended for the enclosure volume. Add weights if system tuning is higher than recommended, remove weights if the system tuning is lower than desired. A passive radiator can be temporarily mounted "inside out" so the tuning weights are easily accessible. Additional washers used in conjunction with the weights supplied will aid in obtaining precise tuning.

