



Elite Electronic Engineering, Inc.
1516 Centre Circle
Downers Grove, IL 60515
630-495-9770
www.elitetest.com

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EMI CHAMBER DESCRIPTION

TEST SUITE 24

Test Room ID: R24S

Description:	SHIELDED TEST ENCLOSURE
Primary Testing Uses:	REVERBERATION
Dimensions:	4.88m x 3.66m x 3.05m (16ft. x 12ft. x 10ft.) [see Figure – 3 below]
Construction:	Galvanized Steel <i>Wall Ground Plane:</i> Finger stock <i>Mode Tuned Ground Plane:</i> Copper table with 3 ½ in. Brass tube legs soldered to 4 in. wide by 34 in. long by ¼ in thick brass plate. Grounded to floor with two ¼ - 20 bolts.
Ground Plane Dimensions:	<i>Wall Ground Plane:</i> 2.74m x 0.76m x 0.78mm (9ft. x 2.5ft. x 0.031in.) [see Figure – 13 below] <i>Mode Tuned Ground Plane:</i> 1.83m x 0.76m x 0.78mm (6ft. x 2.5ft. x 0.031in.) [see Figure – 14 below]
Distance from Cable Tunnel to Front of Ground Plane:	<i>Wall Ground Plane:</i> 0.76m (2.5ft.) <i>Mode Tuned Ground Plane:</i> 2.13m (7ft) straight length 4.27m (14ft.) along ground plane to floor to wall and up wall
Room Filters:	(2) 30A DC Filtered Lines (3) 30A AC Filtered Lines
Power Availability:	115VAC, 400Hz, 3Phase, 30A Filtered AC Power Note: Other power arrangements are available upon request.



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Monitor Room ID: R24P

Description:	SHIELDED MONITOR ENCLOSURE
Dimensions:	6.1m x 3.05m x 2.44m (20ft. x 10ft. x 8ft.) [see Figure – 3 below]
Construction:	Galvanized Steel <i>Ground Plane Bonding:</i> Bolted to Wall
Ground Plane Dimensions:	2.44m x 0.76m x 0.78mm (8ft. x 2.5ft. x 0.031in.) [see Figure – 3 below]
Distance from Cable Tunnel to Front of Ground Plane:	0.84m (32.9in.)
Power Availability:	115VAC, 60Hz, 1Phase, 15A Outlets Note: <i>Other power arrangements are available upon request.</i>
General Cabling Considerations:	<p>Please note that the distance from the front edge of the monitor room table and the test room ground plane is <u>9 feet</u>. Plan cable lengths accordingly.</p> <p>Mil Std Tests: <i>Power and interconnect leads need to be 2 meters in length within 10cm of the front of the ground plane. (Ref 461E section 4.3.8.6.1 & 4.3.8.6.2)</i></p> <p>DO-160 Tests: <i>Power leads need to be 1 meter in length within 10 cm of the front of the ground plane. Interconnect leads need to have 3.3 meters exposed and at least 1 meter within 10 cm of the front of the ground plane. (Ref DO-160D Section 20.3)</i></p>



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Figure - 1: Room 24S (Test Room)



Figure - 2: Room 24P (Monitor Room)



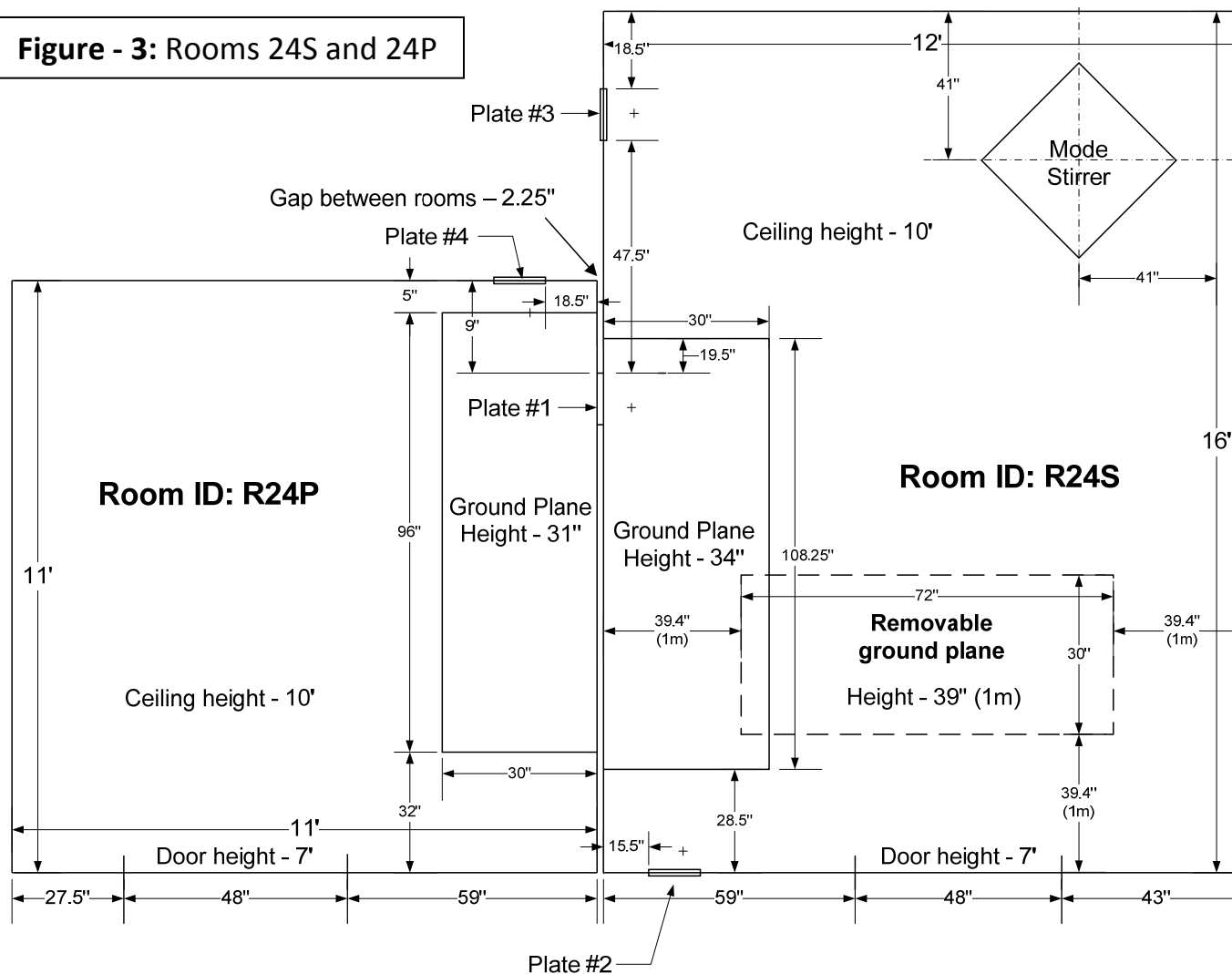
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Figure - 3: Rooms 24S and 24P





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Figure - 4: Room 24S Waveguide Mount (Test Room)
Plate #3

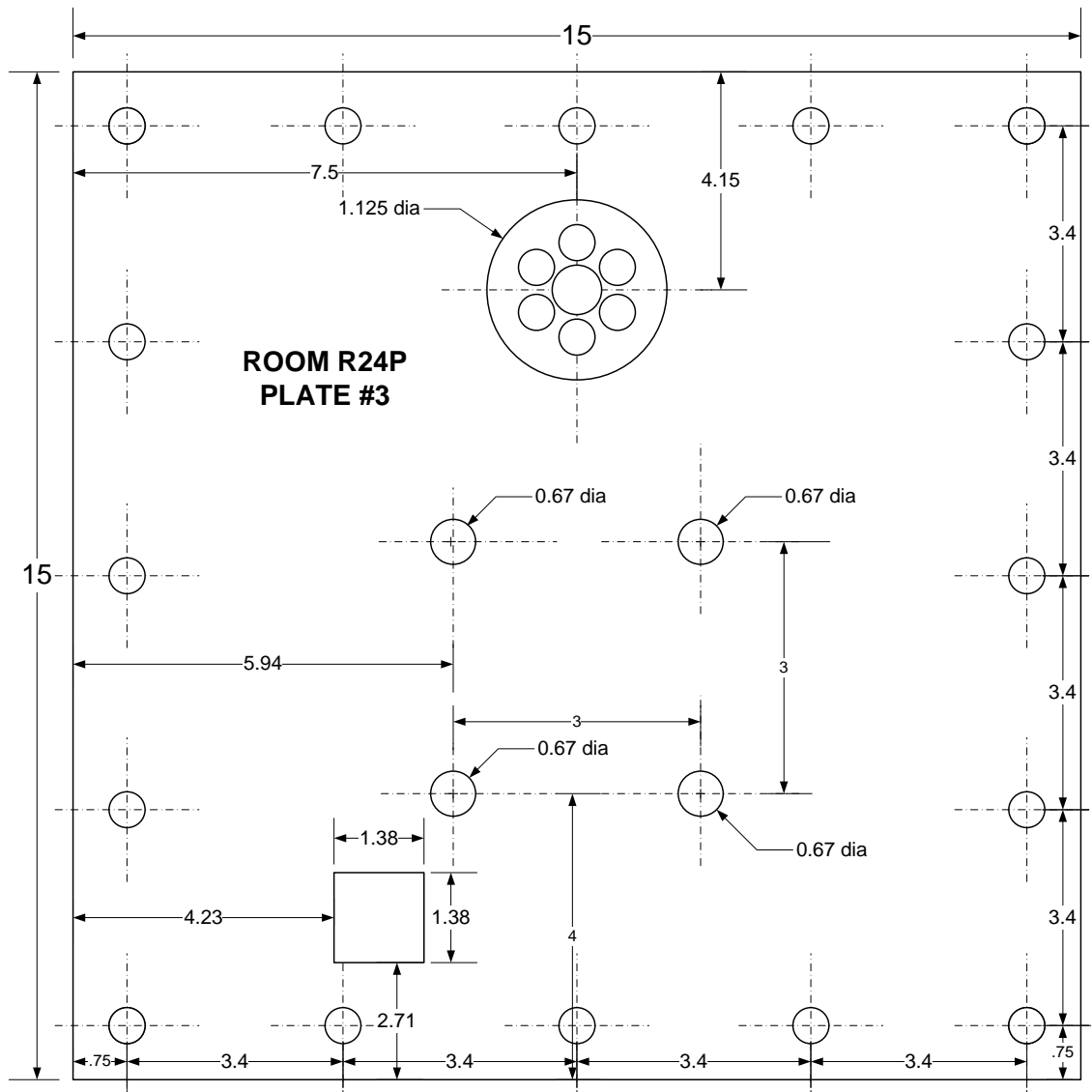


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All dimensions are in inches

Figure - 5: Room 24S (Test Room) Waveguide Plate w/ Dimensions
Plate #3



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Figure - 6: Room 24S (Test Room) Outer Mounting Plate (View from outside chamber) Plate #2

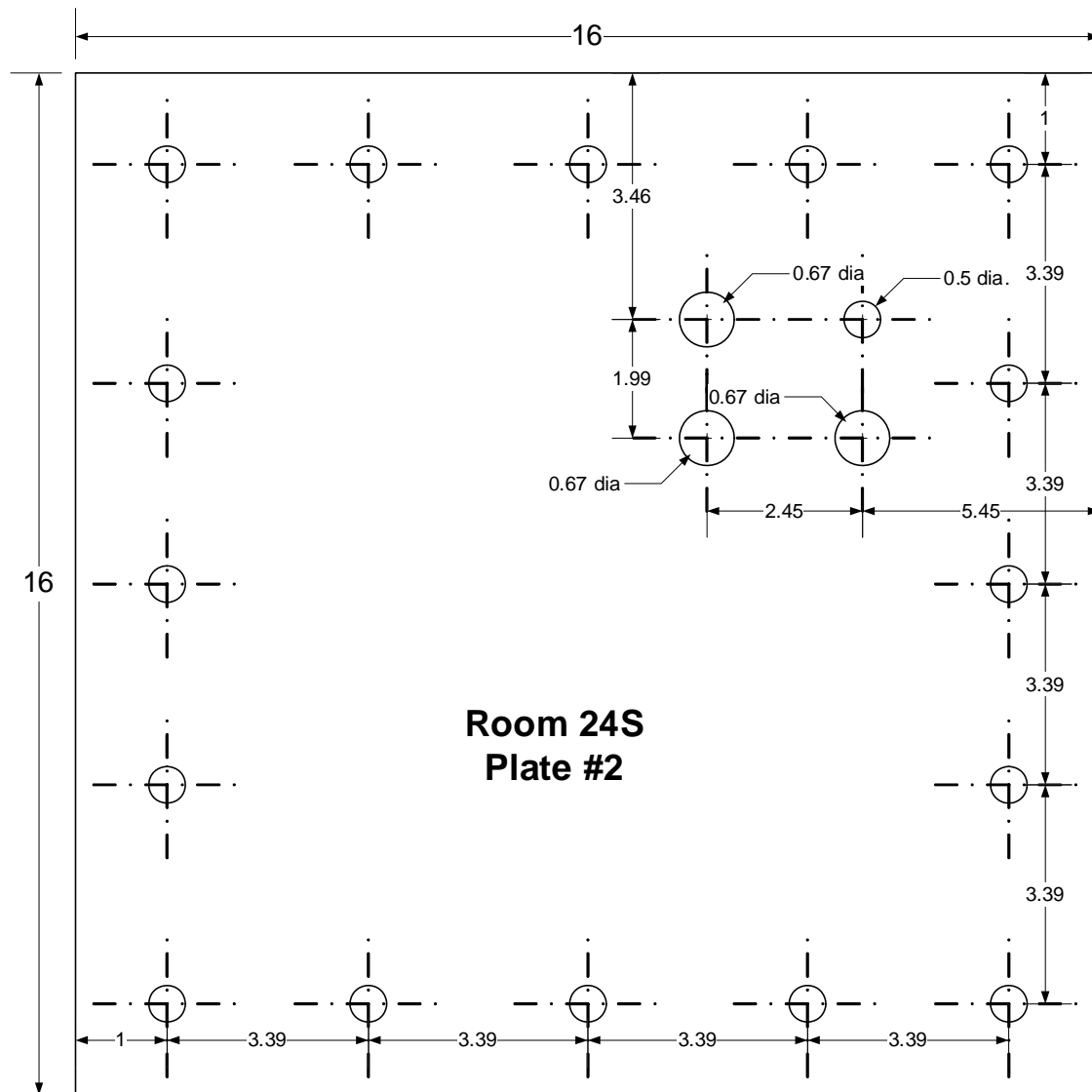


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Mounting holes are 5/16"

All dimensions are in inches

**Figure - 7: Room 24S (Test Room) Outer Mounting Plate Dimensions
Plate #2**



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Room 24S (Test Room) Inner Mounting Plate
Plate #1



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Figure - 8: Room 24P (Monitor Room) Inner Mounting Plate
Plate #1

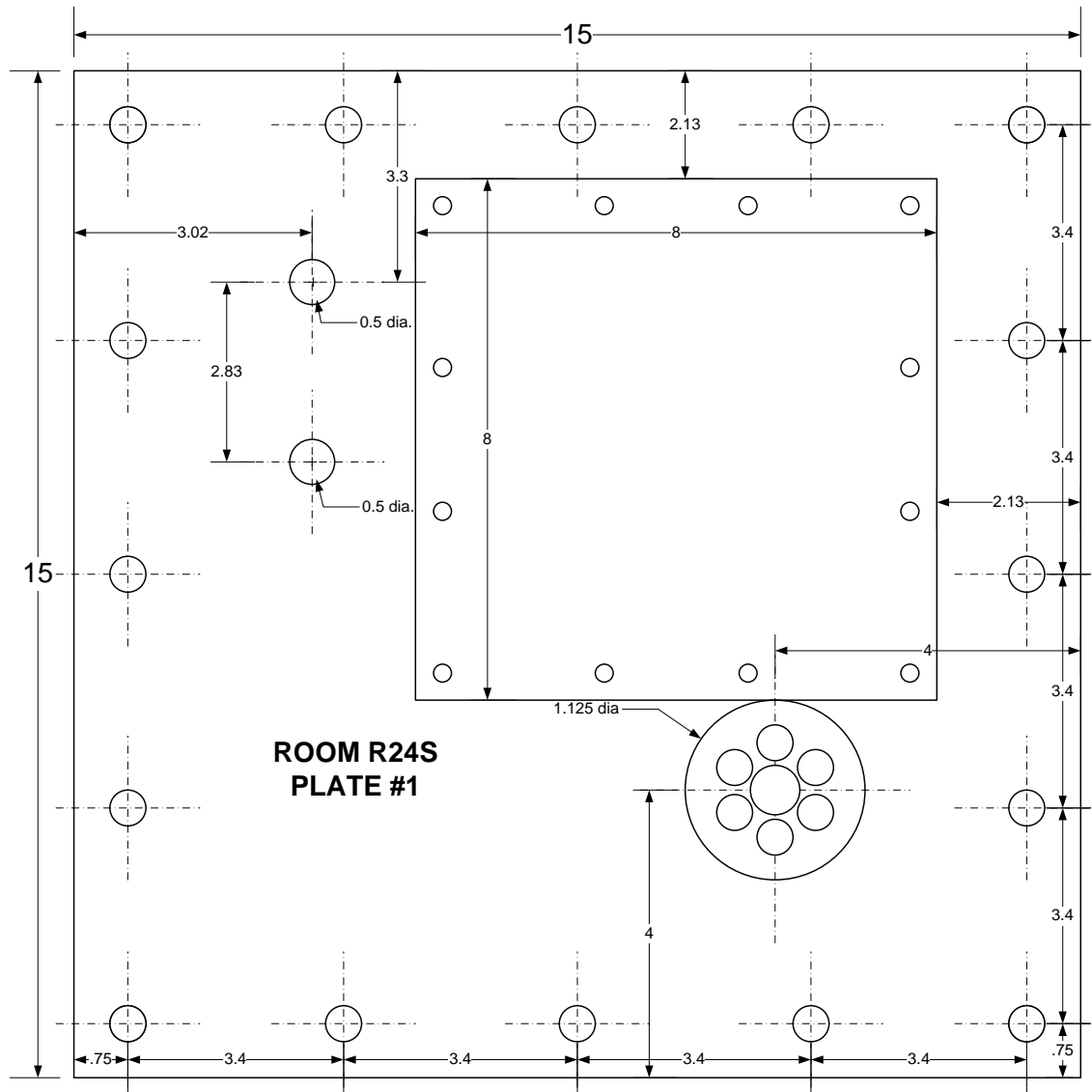


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**Figure - 9: Room 24S (Test Room) Inner Mounting Plate Dimensions
Plate #1**

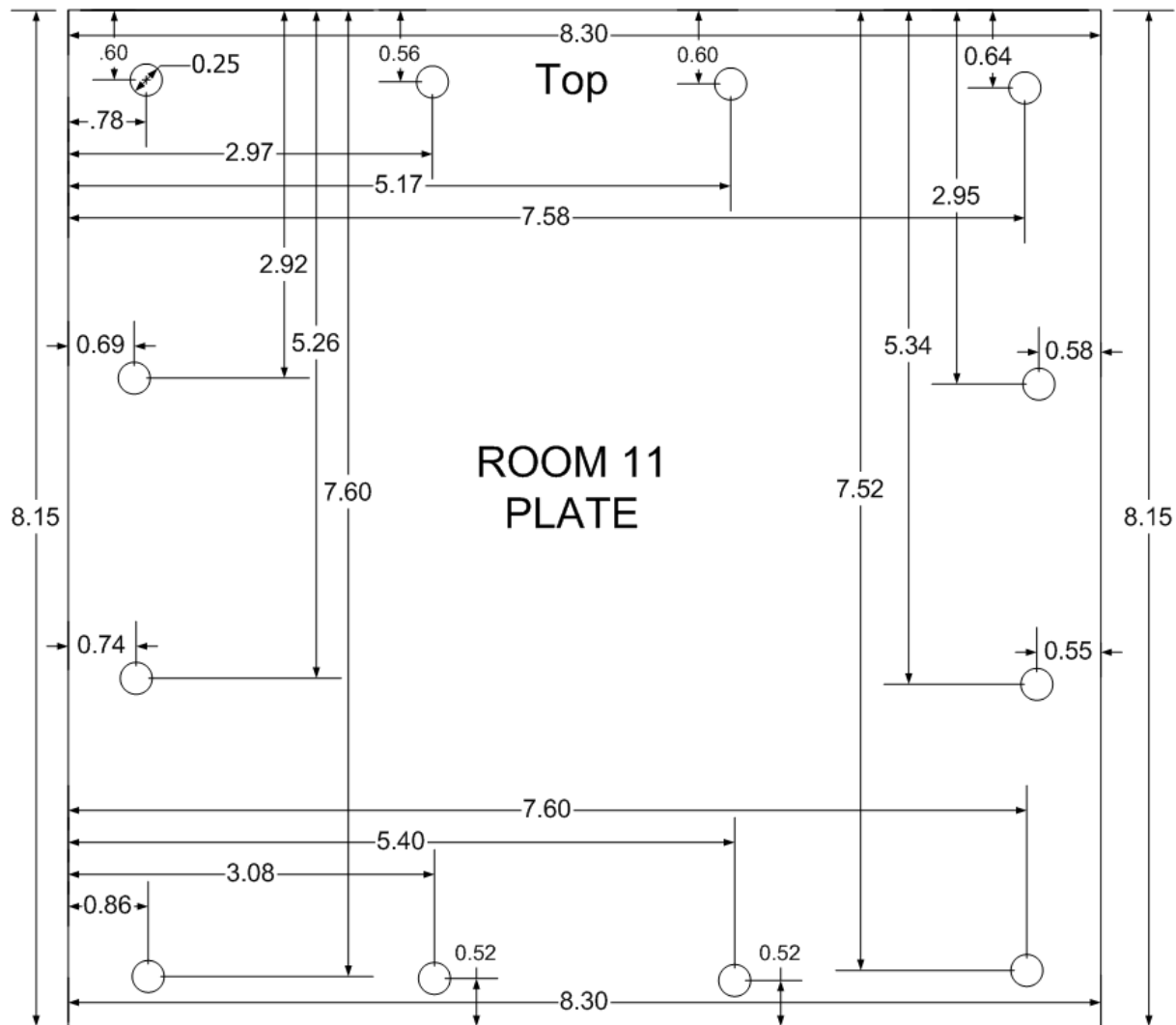


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**Figure - 10: Room 24S Customer Mounting Plate Dimensions
On Plate #1**



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Figure – 11: Room 24P (Monitor Room) Outer Mounting Plate
Plate #4

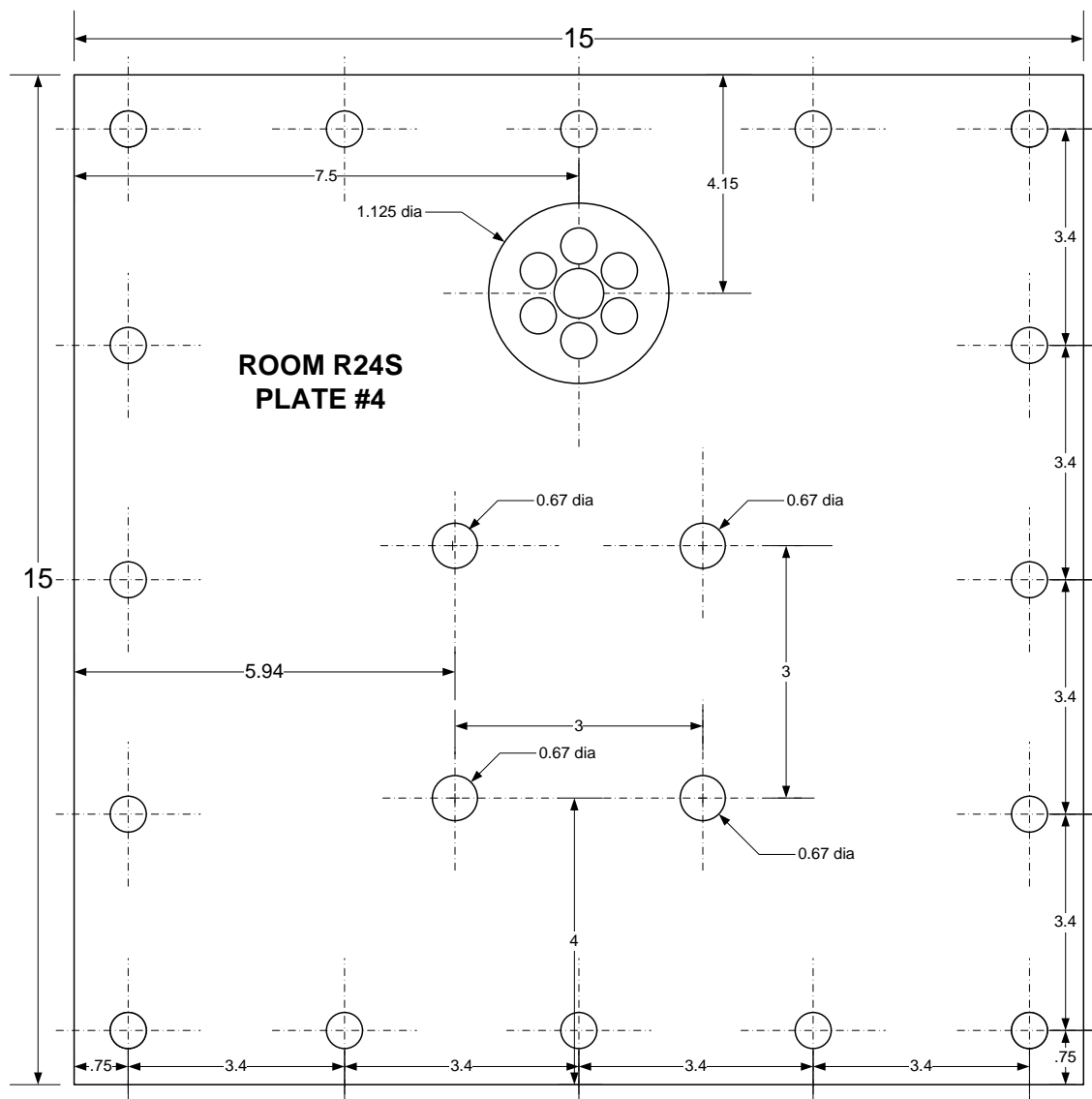


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All dimensions are in inches

Figure - 12: Room 24P (Monitor Room) Outer Mounting Plate Dimensions
Plate #4



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Figure - 13: Room 24S (Test Room) Wall Ground Plane



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Figure - 14: Room 24S (Test Room) Mode Tuned Ground Plane

