

Gates on level 5 Sketches etc. - Dixon Bogert - August 14, 2013

Locations of Proposed Interlock gates on both east and west Landing 5.

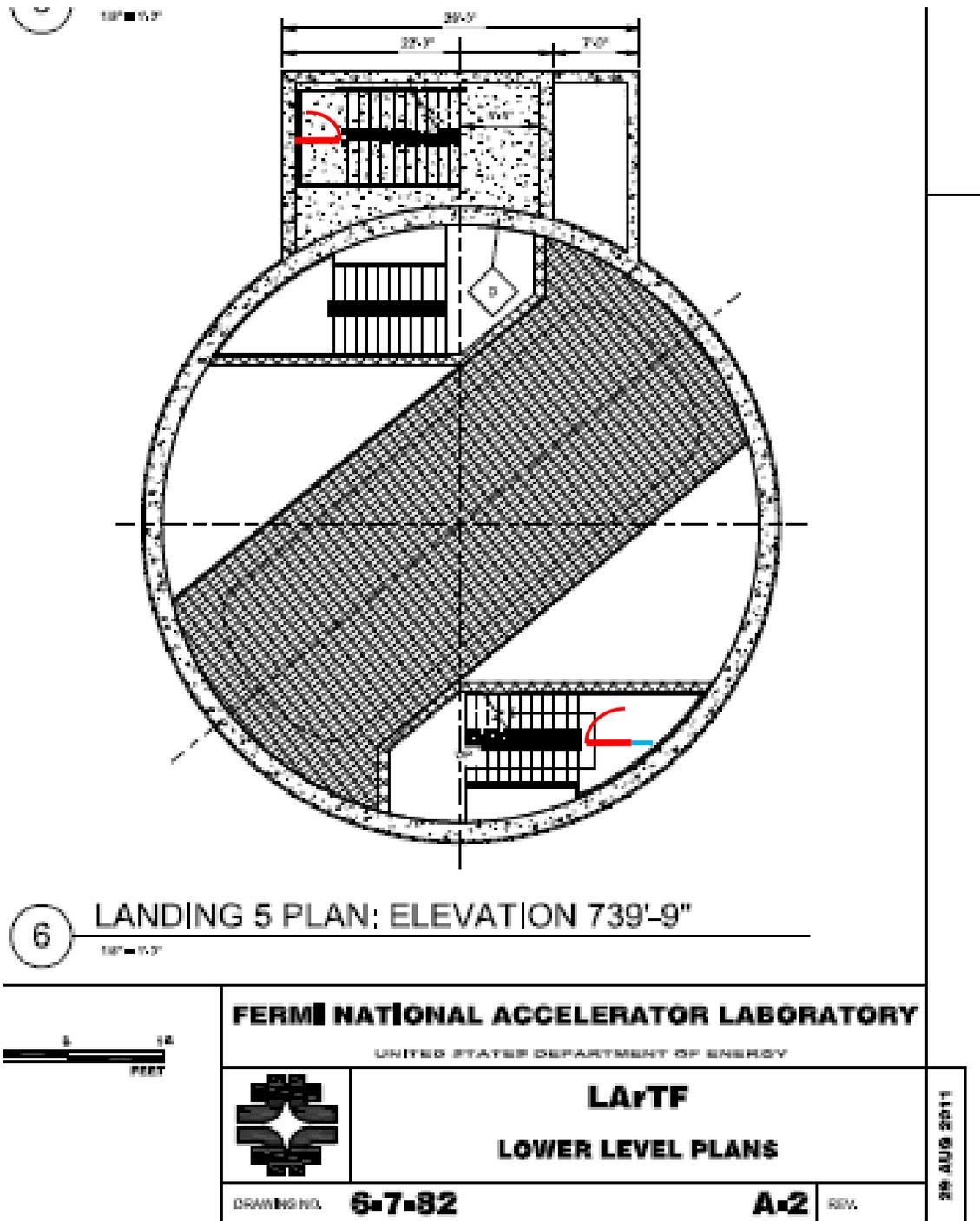


Figure 1. The proposal is to locate wire mesh type gates on both the east and west Landing 5's. This preserves the exiting on ground level without putting locks in the way.



Figure 2. The gate and swing orientation proposed on west landing 5.

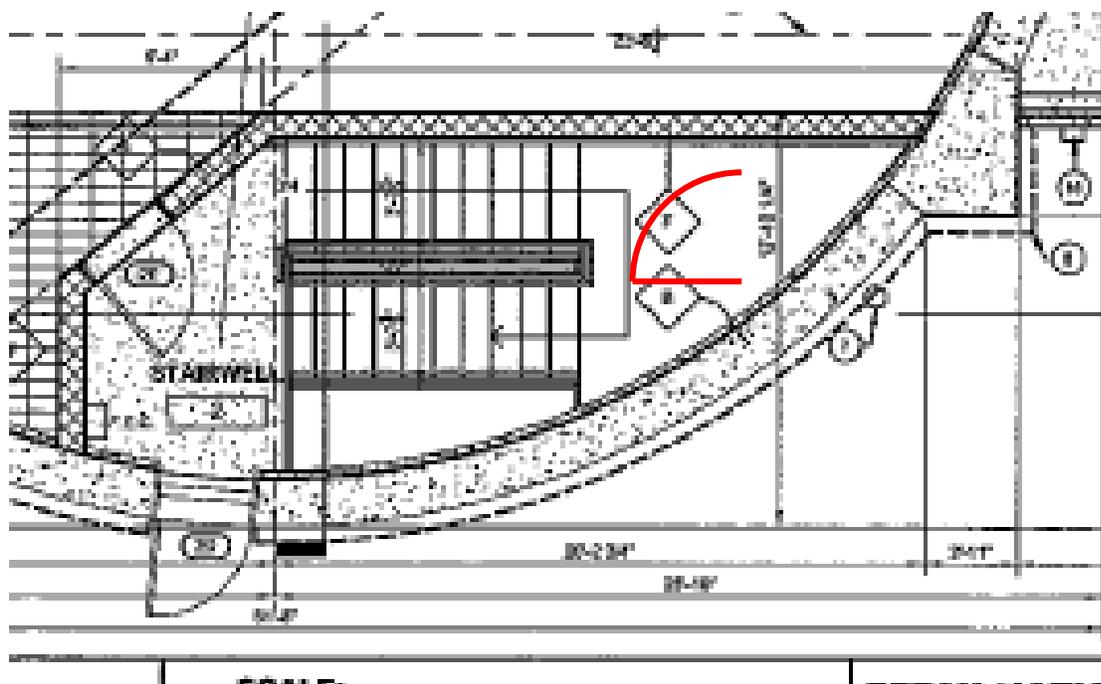


Figure 3. The date and swing orientation proposed on east Landing 5.



Figure 4. Landing 5 on West Stairs showing gate location.

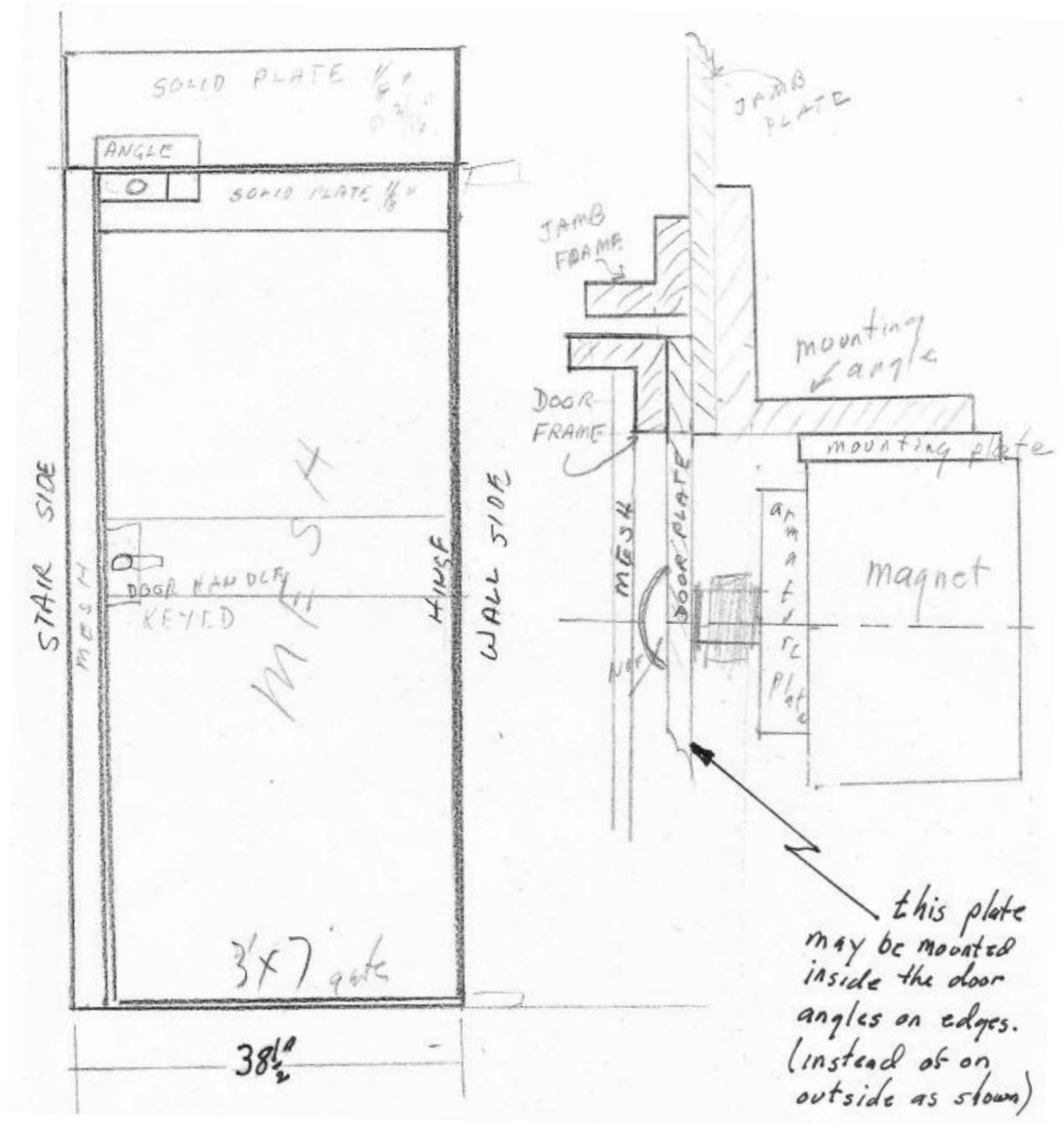


Figure 5: Sketch of gate (looking downstairs or east) with sketch of electric magnet lock installation.

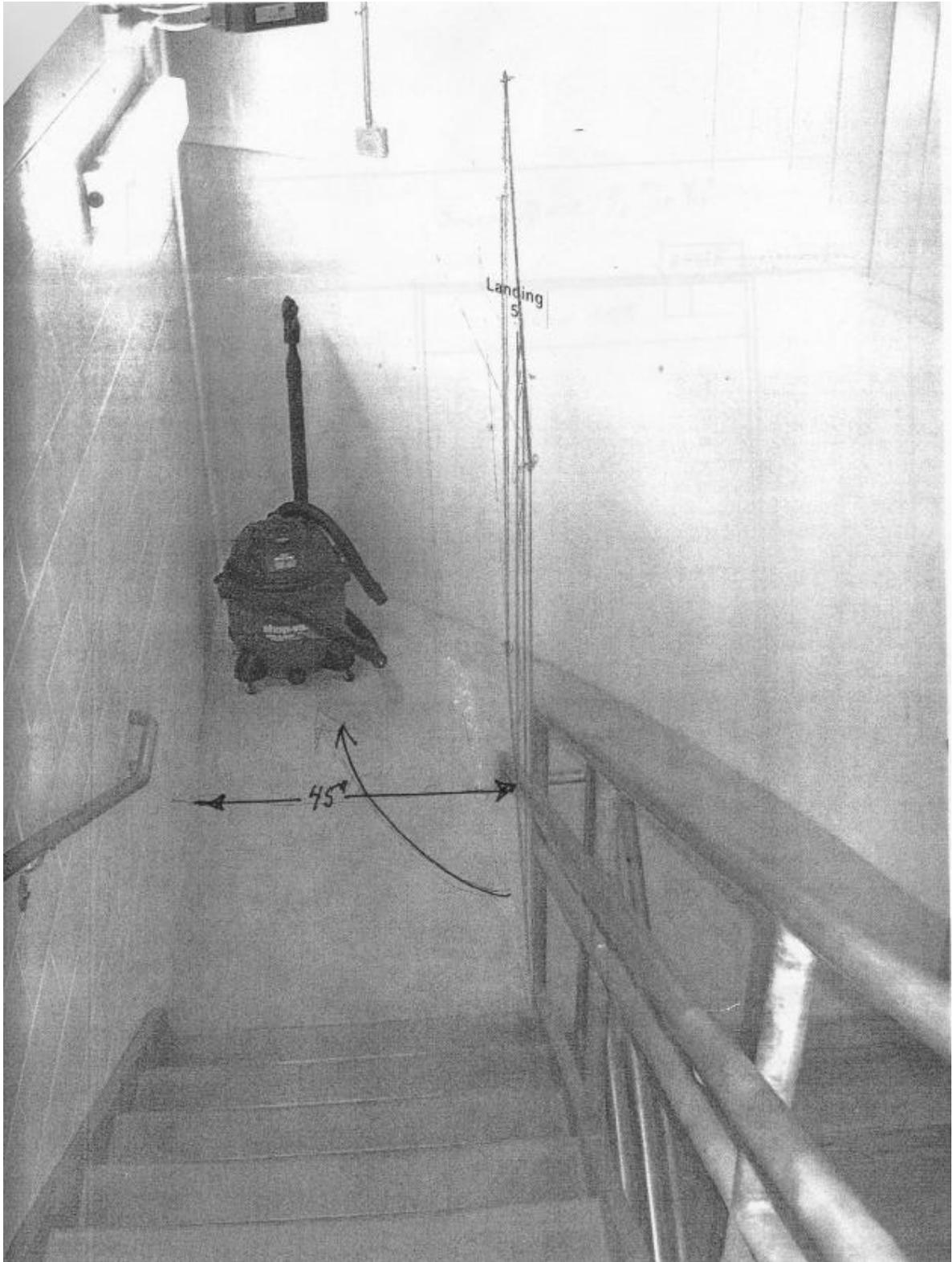


Figure 6: Landing on Level 5 for east stairwell.

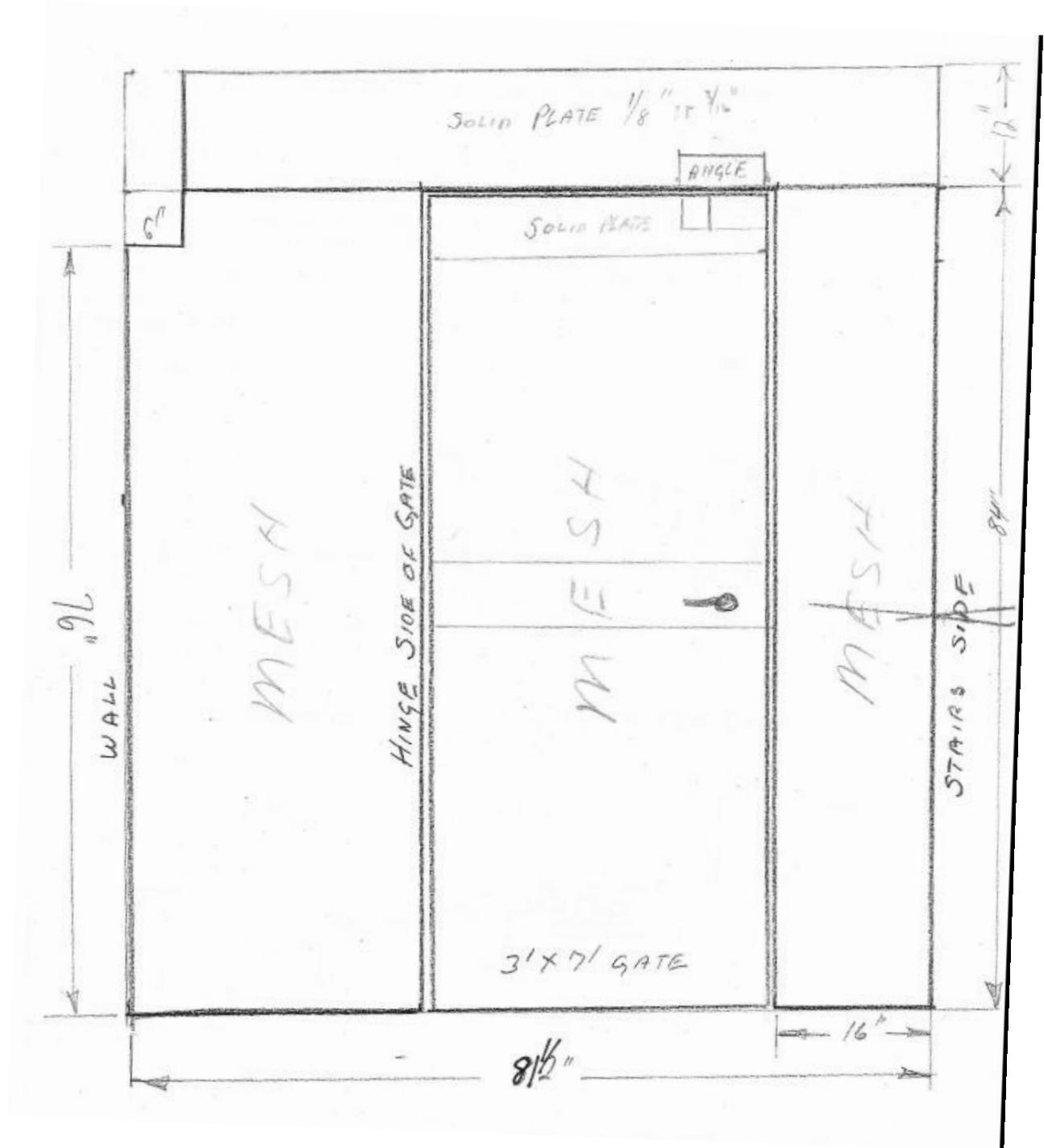


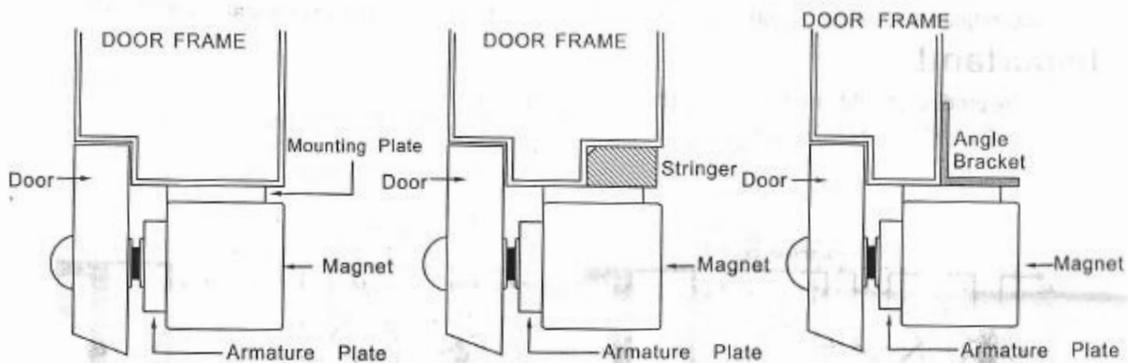
Figure 7: Sketch of gate looking downstairs (east) in the east stairwell landing #5.

Instructions For Magnetic Locking Devices

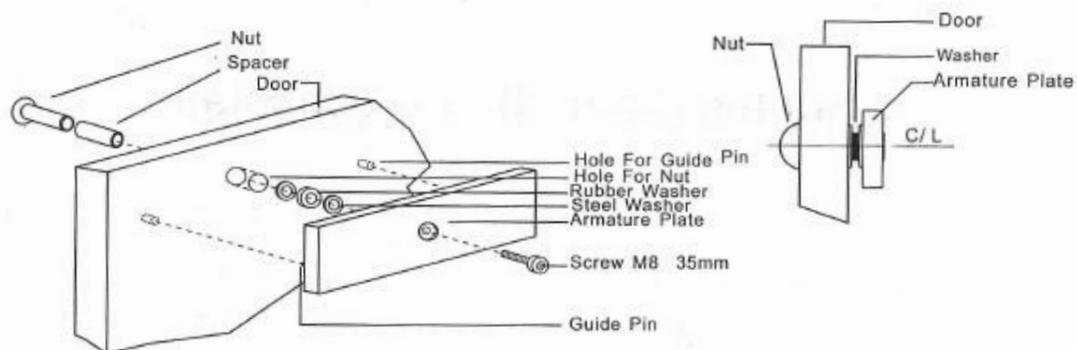
Important : Please Read Before Attempting To Install Magnetic Lock

- A. Handle the equipment with care, damaging the mating surfaces of the magnet or armature plate may reduce locking efficiency.
- B. The magnet mounts rigidly to the door frame. The armature plate mounts to the door with hardware. Kit provided that allows it to pivot about its center to compensate for door wear and misalignment.
- C. Template use must take place with the door in its normally closed position.
- D. Before installing, please add the threadlocker to all screws. Firmly tighten the screws to Avoid fastening loosen.

Typical Installation :



Armature Plate Mounts To The Door



**Important: Fix the armature plate not too tightly and make the rubber washer...

Figure 8:



Magnetic Lock Wiring Instructions

A. 12VDC Input:

Required power 0.5 amp (Maximum).
Connect the ground(-) lead from a 12VDC power source to terminal 2.
Connect the positive(+) lead from a 12VDC power source to terminal 1.
Check jumper for 12VDC operation.

B. 24VDC input:

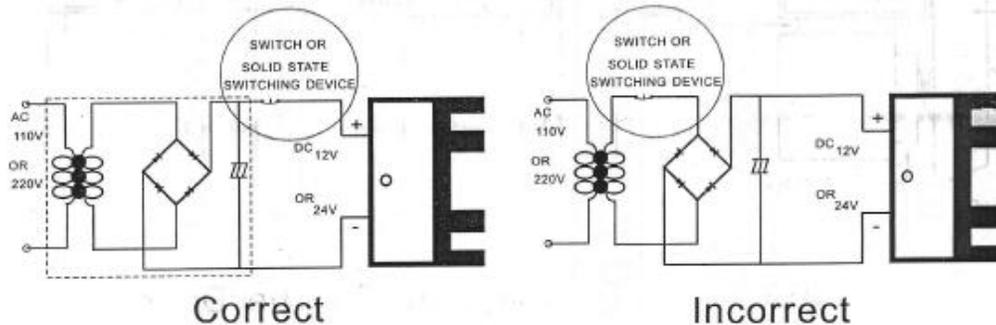
Require power 0.25 amp (Maximum).
Connect the ground(-) lead from a 24VDC power source in terminal 2.
Connect the positive(+) lead from a 24VDC power source to terminal 1.
Check jumper for 24VDC operation.

C. Contacts:

Reed switch dry contacts are rated max 3W(max switching contact 0.25A) at 30VDC/AC for safe operation. Do not exceed this rating.
If you require a normally open switch, connect the wires from the system to terminal 4 and terminal 3.
If you require a normally closed switch, connect the wires from the system to terminal 4 and terminal 5.

Important!

1. The product should only be powered by a UL listed power supply.
2. If power switch is not wired between DC source voltage and magnet, it will take a longer time to de-energize the magnet simulating residual magnetism. (see below)



Printed Circuit Board Schematic

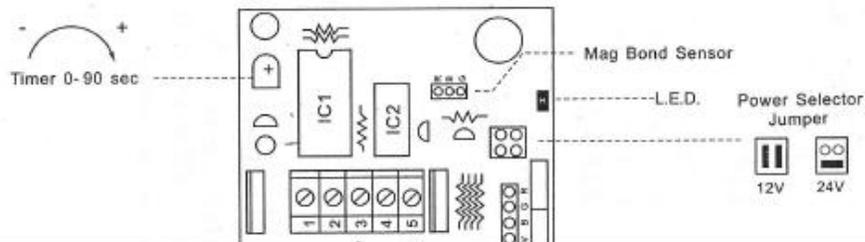
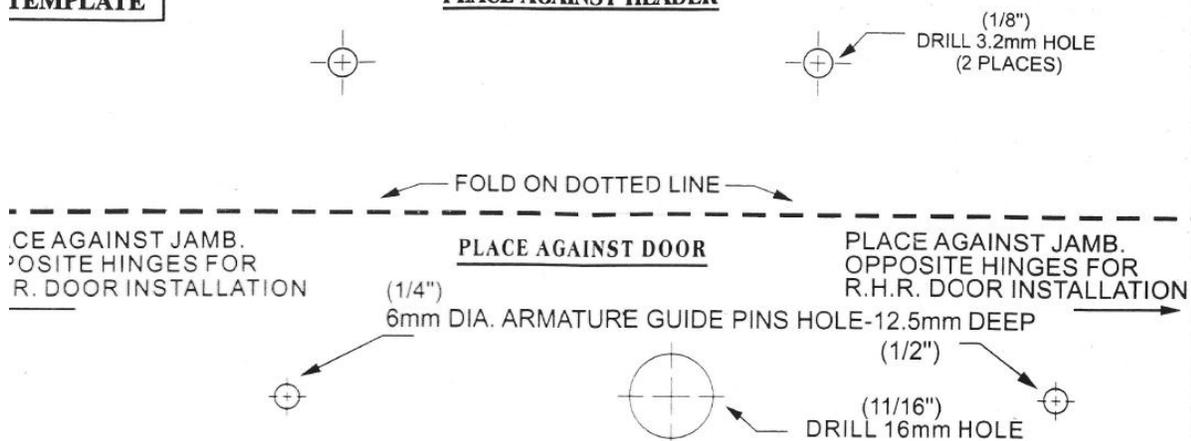


Figure 9:

TEMPLATE**PLACE AGAINST HEADER****MOUNTING INSTRUCTION FOR SERIES****STEP 1**

- * FOLD TEMPLATE ALONG DOTTED LINE.
- * PLACE TEMPLATE AGAINST DOOR AND HEAD FRAME.
- * DRILL HOLES AS INDICATED ON TEMPLATE.

STEP 2

- * MOUNT THE ARMATURE PLATE TO THE DOOR USING 1 RUBBER WASHER SANDWICHED BETWEEN 2 STEEL WASHERS (THE RUBBER WASHER AND 2 STEEL WASHERS ARE INSTALLED ON THE THROUGH SEX NUT BETWEEN THE ARMATURE PLATE AND DOOR).

STEP 3

- * INSTALL THE MOUNTING PLATE WITH 2 FLAT HEAD SCREWS (THE 2 M5x15 FLAT HEAD SCREWS ARE

STEP 4

- * INSTALL MAGNET TO MOUNTING PLATE WITH 2 M6 SCREWS SUPPLIED.

STEP 5

- * INSTALL ELECTRICAL WIRING PER INSTRUCTION SHEET.

STEP 6

- * TEST ALL FUNCTIONS OF THIS MODEL (SEE WIRING INSTRUCTION).

STEP 7

- * INSERT 2 LOCKING STOPPER IN TWO END PLATES.

Figure 10:

- * ADJUST MOUNTING PLATE SO THAT IT AND THE ARMATURE PLATE FORM A RIGHT ANGLE.
- * USING THE MOUNTING PLATE AS A TEMPLATE DRILL THE WIRE HOLE.
- * DRILL AND INSTALL THE REMAINING MOUNTING SCREWS.

STEP 8

- * INSERT 2 ALUMINUM CAP ON TWO SIDE M6 SCREW HOLES.

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Figure 11: