

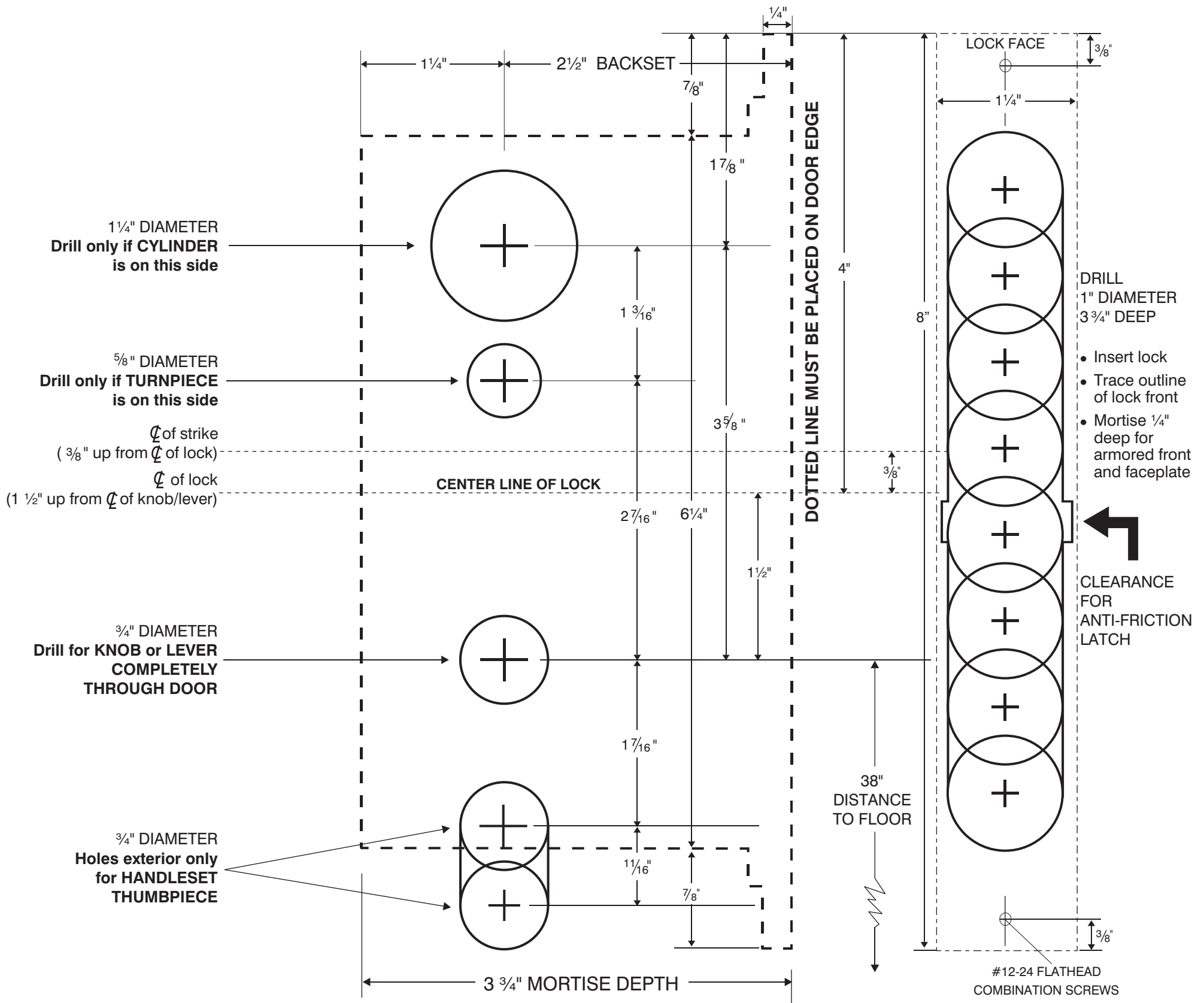
# 2 1/2" BACKSET MORTISE HANDLESET LOCK TEMPLATE

SEE OTHER SIDE FOR OPPOSITE TEMPLATE

**NOTE:** Template may not be true-to-size. Please use for reference purposes only. DO NOT drill until measurements are verified.

## CAUTION: DOOR AND FRAME MANUFACTURERS

When door gasketing or silencers are used, proper allowances must be made for strike location to maintain a common centerline with lock and door so that the bolt will freely enter strike.



## 2 1/2" BACKSET HANDLE SET MORTISE LOCK INSTALLATION INSTRUCTIONS

### DOOR PREPARATION

- 1) Draw a horizontal line on both sides of the door at 38" above the finished floor.  
**NOTE:** If mortise for strike already exists in frame, locate horizontal line for knob/lever using strike mortise as a reference point. Go down 1 7/8" from the center line of the strike and mark the horizontal line of the knob/lever at this point. Our standard horizontal center line for the strike is 1 7/8" above the horizontal knob/lever line or 39 7/8" above the finished floor.
- 2) Draw a vertical line on both sides of the door 2 1/2" back from edge of door. This will be the center line for the turnpiece, cylinder(s), knob/lever, thumbpiece, and thru-bolts for backplates.
- 3) Draw a vertical line on center of the door edge.
- 4) Locate vertical center line for strike by taking half the door thickness plus the thickness of silencers (if used). Use this dimension to locate the strike vertical center line from the doorstop molding.
- 5) Position the template on the door edge with the horizontal line of the knob or lever lining up with the horizontal line marked on the door. Mark centers of holes for mortise cavity.  
**Be sure to mark the clearance needed on both sides of the cavity for the anti-friction latch.**
- 6) Mark lever/knob, thumbpiece, cylinder(s) and turnpiece positions to be drilled.

### MORTISING OF DOOR

- 1) Mortise door edge for lockbody 3 3/4" deep and cut notches for anti-friction latch.
- 2) Insert lockbody into cavity and outline the lock armored front and mark lock mounting screw holes.
- 3) Mortise 1/4" deep for the armored front and faceplate to be installed later. Also notch deeper or drill two cavities to allow the beveling screws to sit in.
- 4) Drill pilot holes for the lock mounting screws and all of the holes needed for knob/lever, thumbpiece, cylinder(s), and turnpiece.
- 5) Using faceplate as a template outline and mortise to allow faceplate to fit snugly.
- 6) Using the strike as a template, align it on the marked center lines and outline strike and openings for deadbolt and latchbolt. Drill 1" deep for deadbolt and latch holes.
- 7) Mortise 3/32" deep for mortise strike.
- 8) Drill all of the required diameter holes as stated on the template for the knob/lever, thumbpiece, cylinder(s), and turnpiece.

### INSTALLING LOCK AND STRIKE

- 1) **FOR BEVELED EDGE DOOR:** Loosen the two beveling screws behind armored front of lock. Adjust the armored front of lockbody to the bevel of the door. Tighten beveling screws before installing the lockbody.
- 2) Insert lock body into cavity and secure to door using the two #12 combination screws. **DO NOT ATTACH FINISHED FACEPLATE AT THIS TIME.**
- 3) Place strike into strike mortise and attach it to frame using the two #12 combination screws. (Refer to Diagram #1 on reverse side for installation of strike.)

### INSTALLING FINISHED TRIM

- 1) Install spindle through the door from the outside.
- 2) Install outside thumbpiece trim by inserting thumbpiece arm into proper hole and installing cylinder. Tighten the mortise cylinder and mark and drill with a 1/4" drill bit any thru-bolting holes for the handle.
- 3) Install all thru-bolt screws for handle and tighten. Check operation of cylinder so that it works smoothly.
- 4) Install interior plate with proper screws supplied, but do not tighten screws at this time. If a cylinder is being used on the interior, install it at this time.
- 5) Install nylon washer into backplate hole for knob/lever and attach knob/lever to spindle. Tighten the knob/lever and cylinder snugly to align backplate and then tighten the back plate screws.
- 6) Unthread the knob/lever slightly and install set screws to hold the knob/lever in place. Check for free movement of the knob/lever.
- 7) Properly position the cylinder so the "OMNIA" logo is readable. Tighten the cylinder set screw(s) through the lock front.
- 8) Attach lock faceplate using the faceplate screws provided.



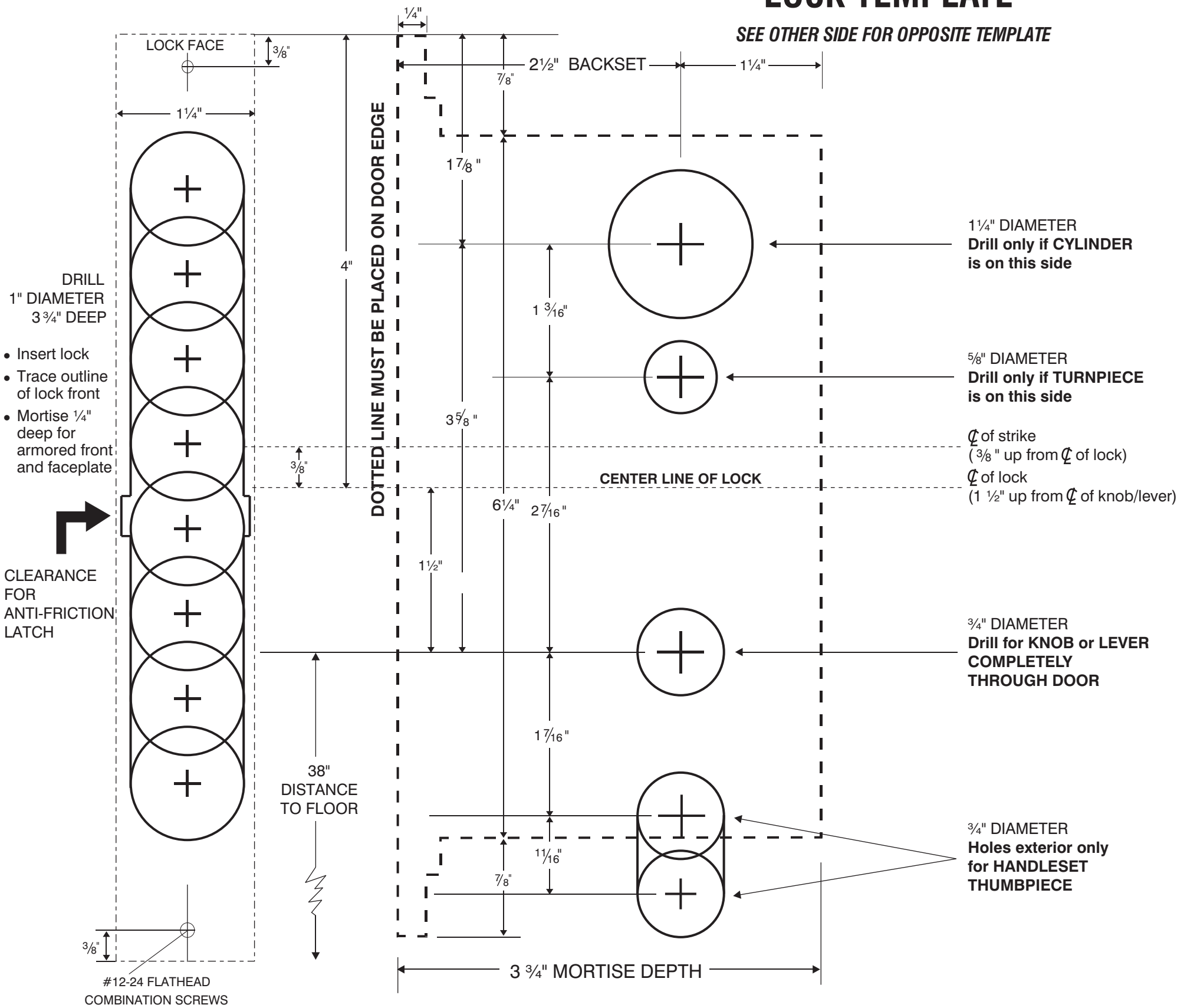
CEDAR GROVE, NJ 07009  
OMNIA INDUSTRIES, INC.



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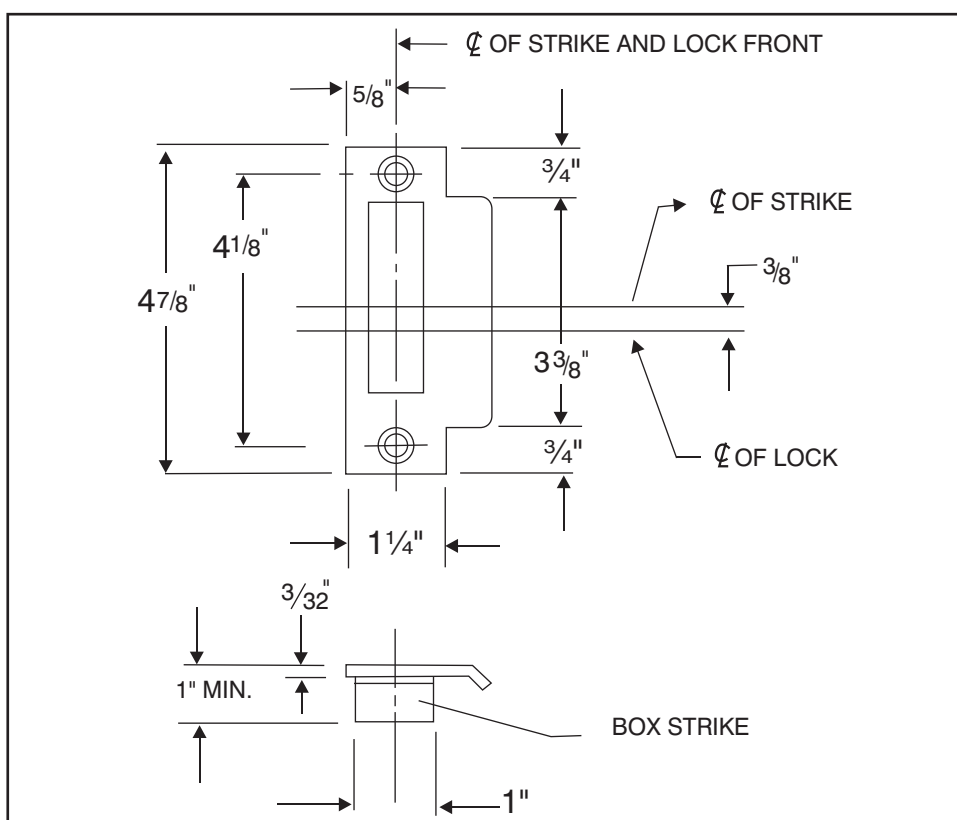
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## DIAGRAM #1

### MORTISE STRIKE INSTALLATION INSTRUCTIONS

- 1) Locate center line of strike by taking the center line of the mortise lock case and going up 3/8" and making a line on the jamb.
- 2) Position the center line of the strike onto the line and using the strike as a guide trace the edge of the strike.
- 3) Mortise the jamb 3/32" deep for the strike.
- 4) When box strike *is used* a minimum of 1" mortise depth is needed.
- 5) When box strike is *not used* be sure to mortise deep enough to allow the latchbolt and deadbolt to fully extend.



## DIAGRAM #2

### FUNCTION HOLES TO DRILL

Function	Cyl. Hole outside	Cyl. Hole 2 sides	Turnpiece inside	Knob hole 2 sides	Cam type
A	X		X	X	C
AC		X		X	C
B	X		X	X	C
E	X			X	S
EW	X			X	S
F	X		X	X	C
FW	X		X	X	C
J	X			X	S
L			Both Sides	X	
N				X	
PD					
SD					

Key: C = Cloverleaf S=Straight Cam



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