



AutoCAD

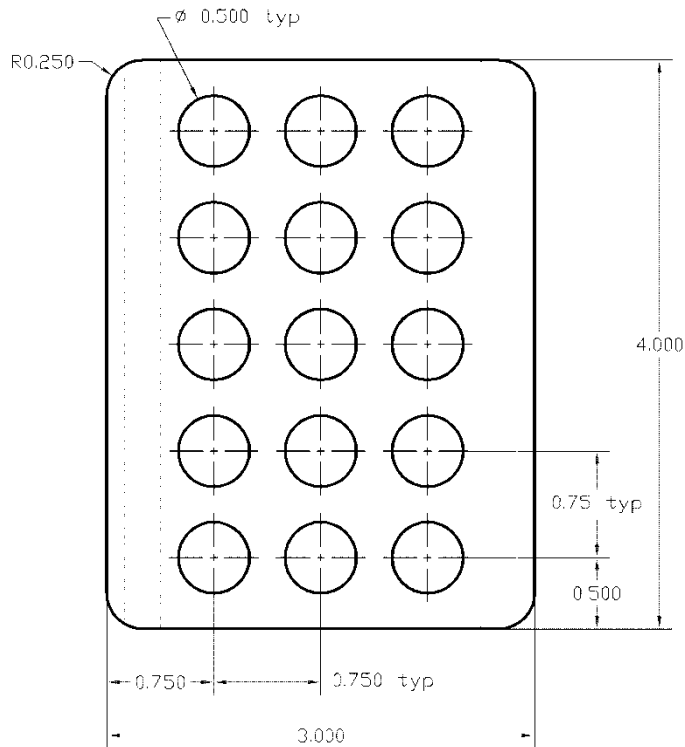
Drawing Organization

Layers

Blocks

Properties

Concepts

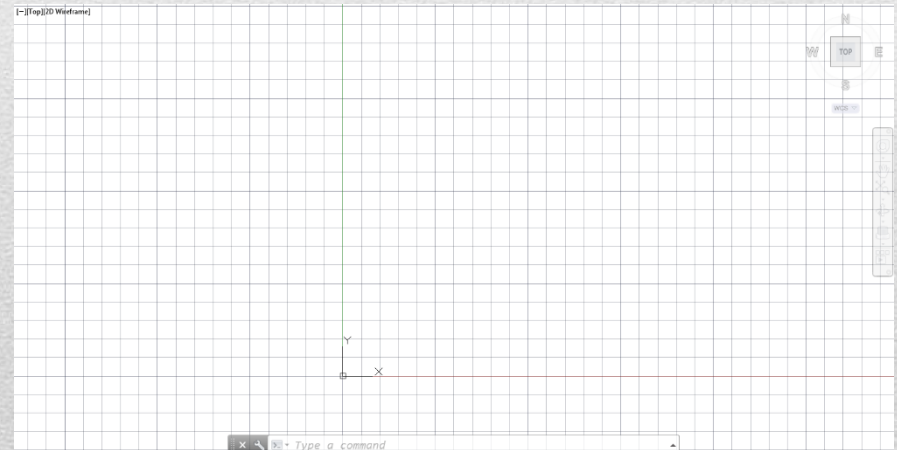


- Drawing procedure
 - Construction
 - Modify
 - Finish
- Blocks
- Layers
- Plines
- Layer / Linetype manager
- Object properties

1. Initialize drawing

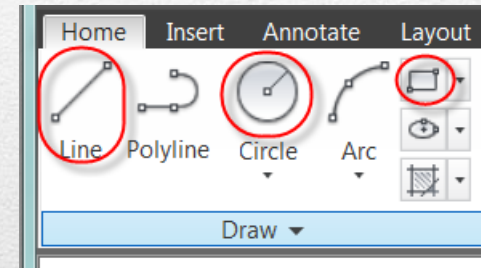
- **Limits:**
 - Lower left: -1,-1
 - Upper right: 4,5
- **Snap**
 - Spacing: .0625
- **Grid**
 - Spacing: .25
- **Zoom**
 - Option: All

Note: These settings are optional



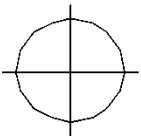
2. Drawing Construction

- Rectangle - Pline
- Line
- Circle

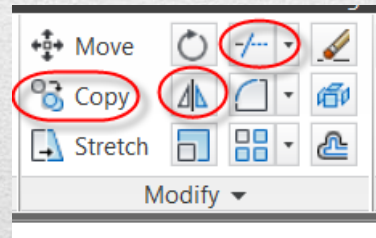
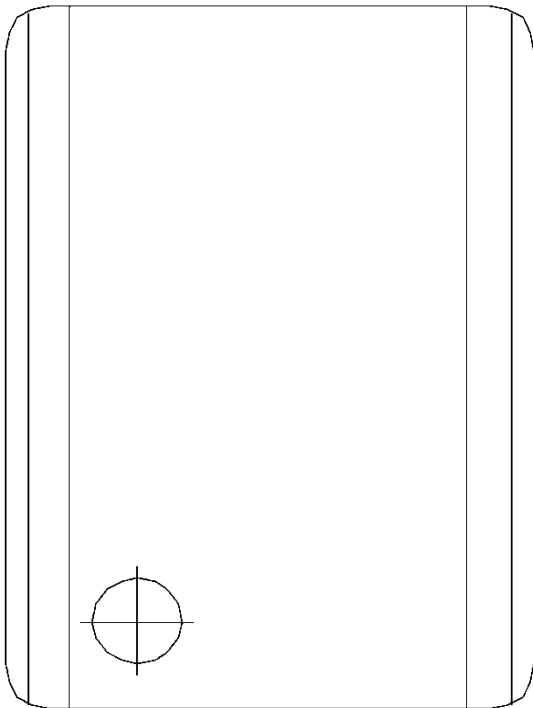


Note:

- Use Dimensions from other slides
- May have to turn off Osnap

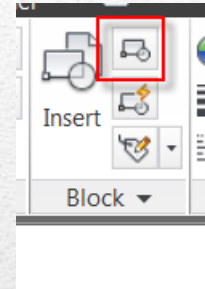


3. Modify Construction



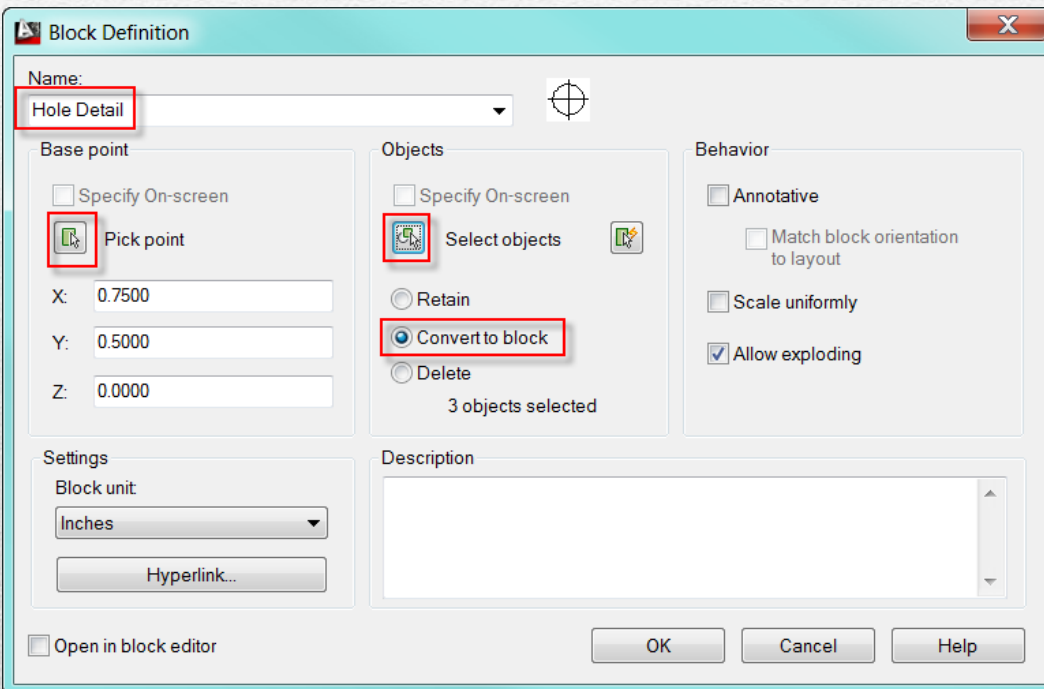
- **Fillet (Polyline)**
 - Radius: .25
- **Command: Copy**
 - object
 - Base Point
 - Displacement
- **Command: Trim**
- **Command: Mirror**
 - Select (Crossing
 - Mirror Line
 - First point-**OSNAP: midpoint**
 - Second point-Vertical
 - Delete: No

4. Block Definition

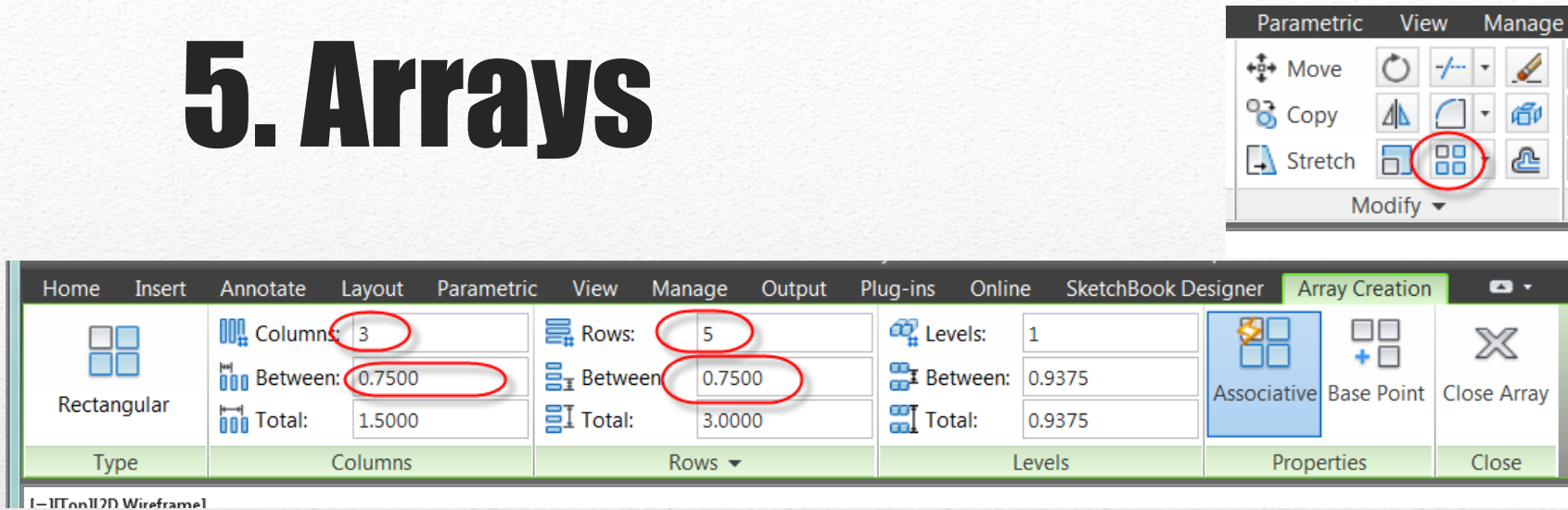


- **Block - Create**

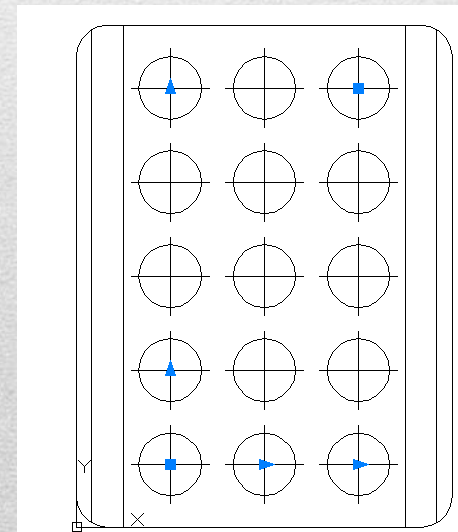
- Name:
 - hole detail
- Base Point:
 - Pick Center of the circle
- Objects:
 - Select objects:
 - Circle
 - Crossing lines
 - Convert to block



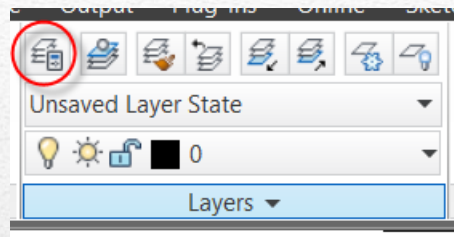
5. Arrays



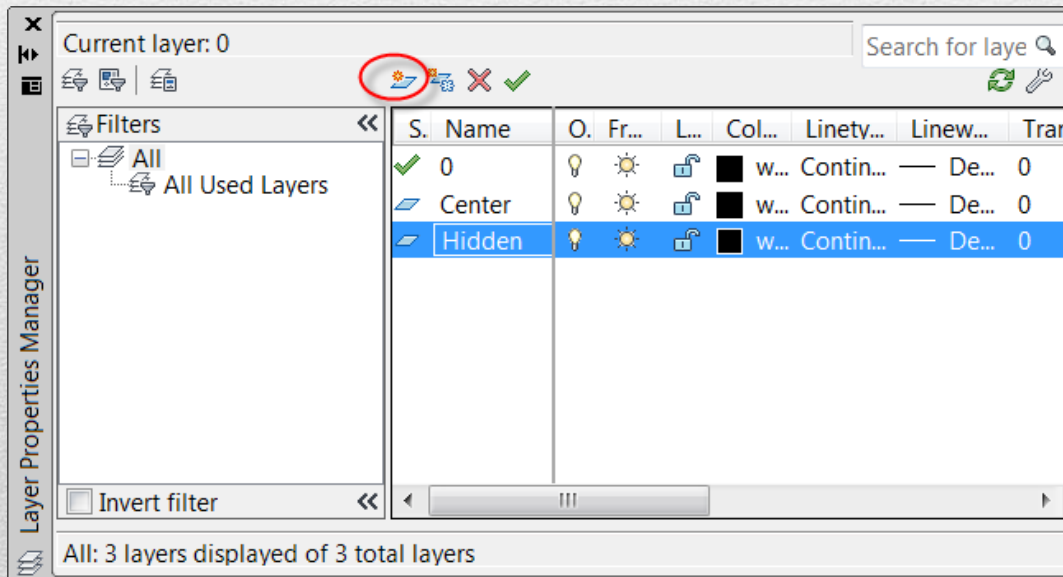
- **Command: Array:**
 - Rectangular
 - Select objects:
 - Block: hole detail
 - Rows: 5 – Between: 0.75
 - Cols: 3 – Between: 0.75



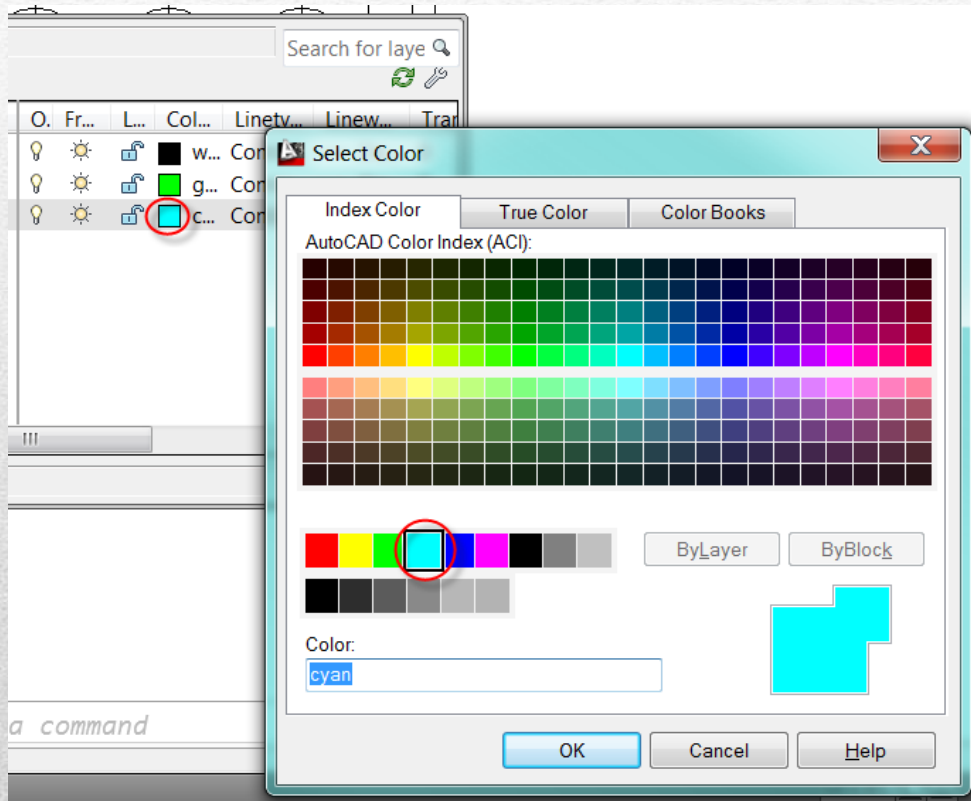
6. Creating new layers



- Select
 - Layer Properties manager
 - New Layers
 - ✓ Hidden
 - ✓ Center

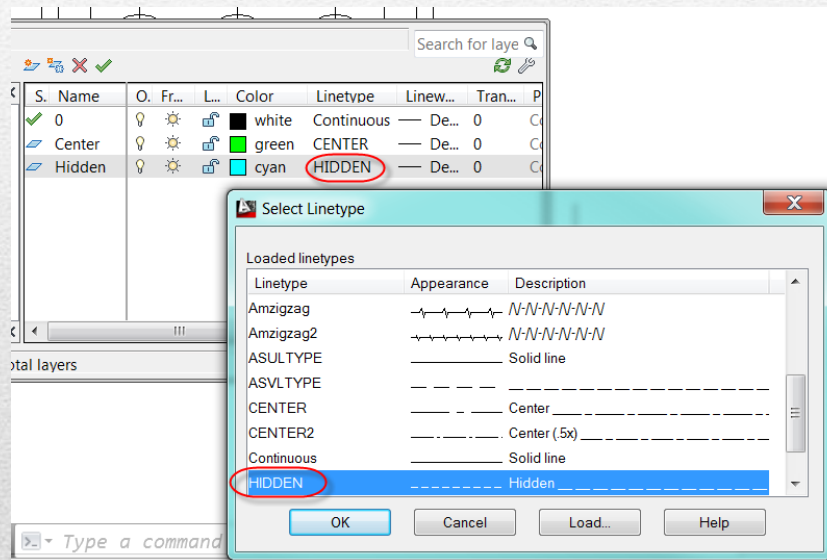


7. Setting layer colors



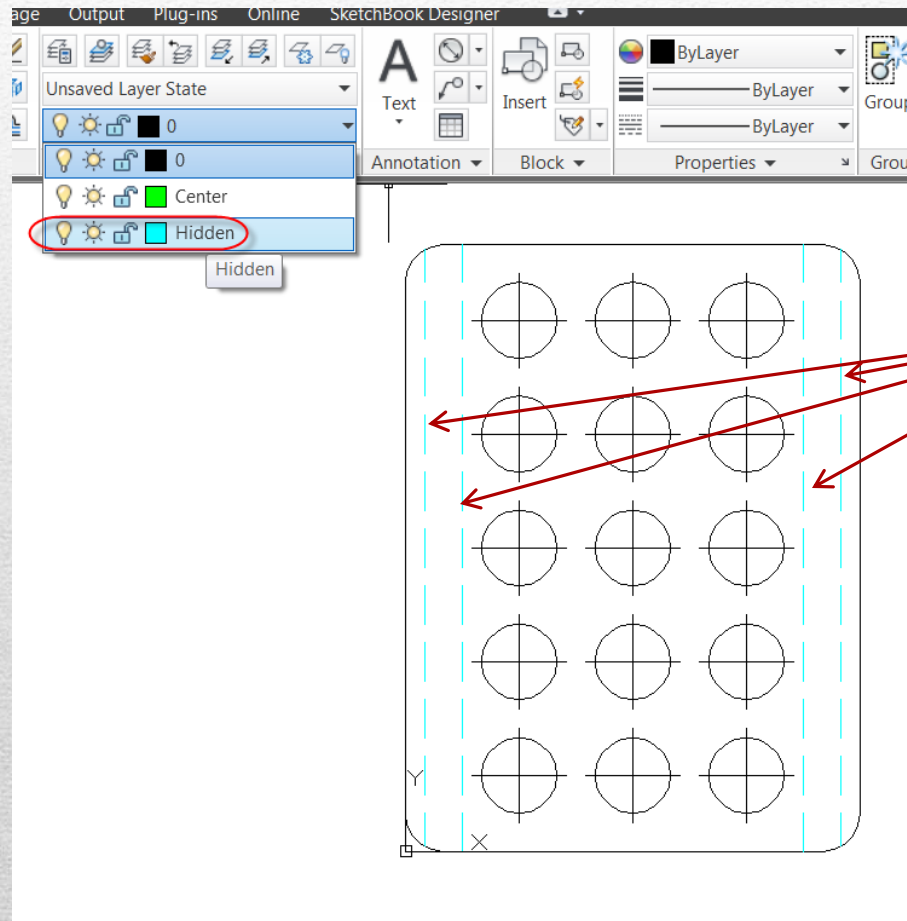
- Select the Layer
- Select the Color
- Set the following colors
 - Center: green
 - Hidden: cyan

8. Set linetypes for the layers



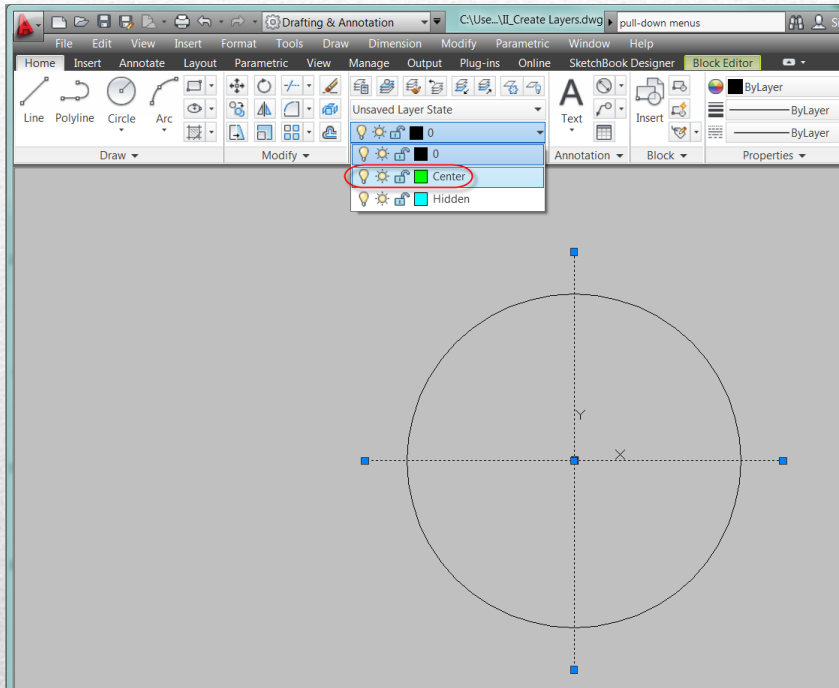
- Select the layer
 - Center
- Select the linetype
 - Select: load
 - Select: center
- Repeat for Hidden
 - Layer: Hidden
 - Linetype: Hidden
- Select: Apply

9. Move lines to the hidden layer

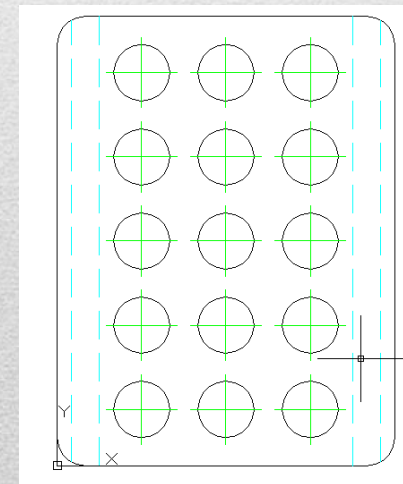


- Select the 4 vertical lines
- Select the layer
 - Hidden

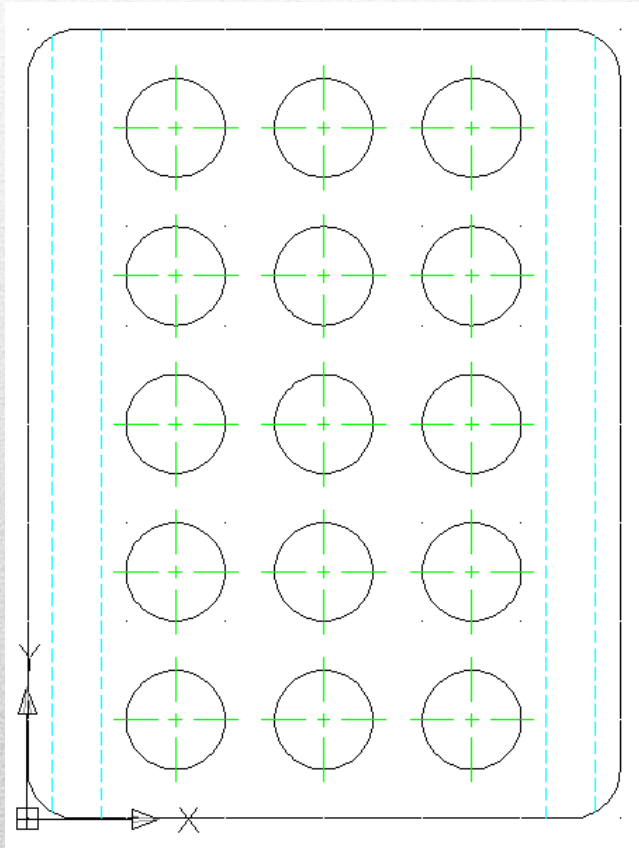
10. Edit the block



- **Block: Edit**
 - Select the block: Hole Detail
 - Select two lines
 - Select: Center Layer

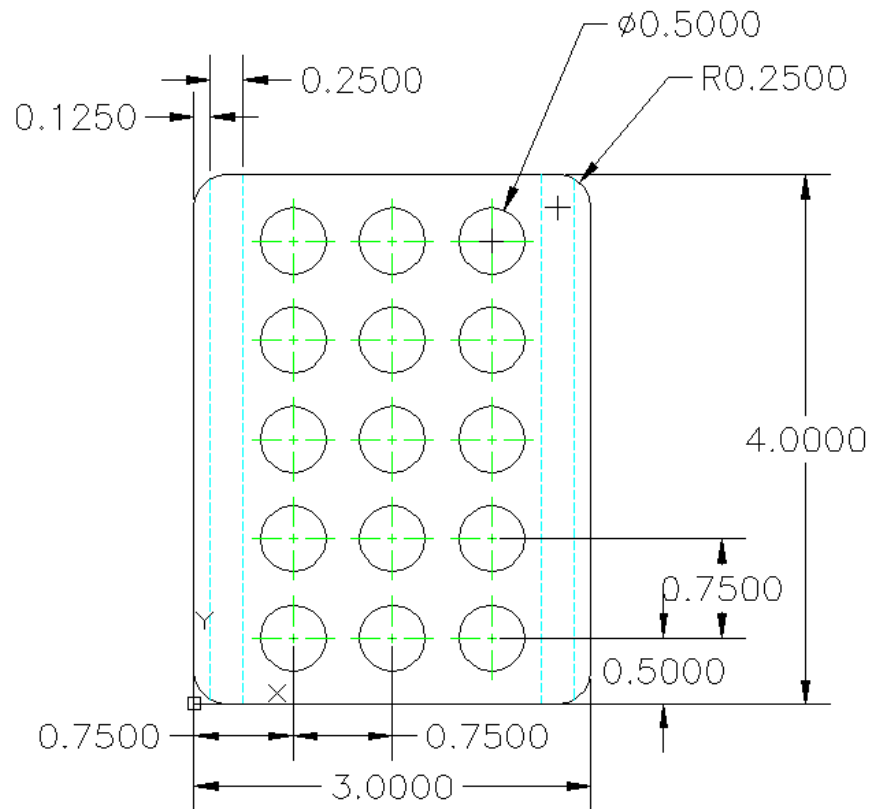


11. Adjusting Linetype scale



- **Command: LTSCALE**
- Factor: .25

12. Verify / Add Dimensions



- Linear
 - Radius
 - Diameter
- (Use Object Snaps)

13.Finish

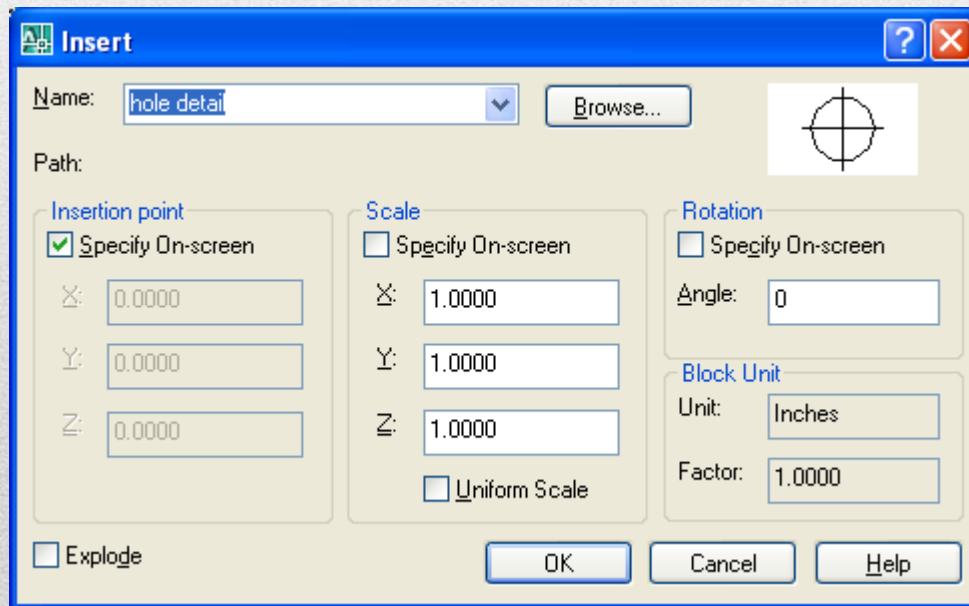
- Add title
- Print (same as previous)



ADDITIONAL INFO

- Blocks – Insert
- Properties

Inserting Blocks



- *Insert Block*
 - Name:
 - hole detail
 - Insertion Point:
 - On-screen: .75,.5
 - Rotate: 0

Properties

- Select an object
- <rmb> Properties

